FCC TEST REPORT

FCC ID: 2ASRV-191409FRE

On Behalf of

Casetagram Limited

Wireless Charger

Model No.: CTF-T-ATE-191409, CTF-T-ATE-191409FREBLK, CTF-T-ATE-191409FRE XXX, (XXX means various color versions, e.g. PKX, BGX, YEX, BLK, WHX, etc)

Prepared for	:	Casetagram Limited
Address	:	11/F, Fun Tower, 35 Hung To Road, Kwun Tong, Hong Kong

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number	:	A2006348-C01-R04
Date of Receipt	:	July 31, 2020
Date of Test	:	July 31, 2020–August 10, 2020
Date of Report	:	August 22, 2020
Version Number	:	V0

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TEST REPORT DECLARATION

Applicant	:	Casetagram Limited
Address	:	11/F, Fun Tower, 35 Hung To Road, Kwun Tong, Hong Kong
Manufacturer	:	Shenzhen BNY Industrial Co. Ltd
Address	:	Room.803. Xingduli Business Building, Longgang Street, Longgang District, Shenzhen, 518114, China
EUT Description	:	Wireless Charger
(A) Model No.	:	CTF-T-ATE-191409, CTF-T-ATE-191409FREBLK, CTF-T-ATE-191409FRE XXX, (XXX means various color versions, e.g. PKX, BGX, YEX, BLK, WHX, etc)
(B) Trademark	:	**Casetify**

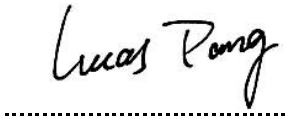
Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:	Lucas Pang Project Engineer	
Approved by (name + signature).....:	Simple Guan Project Manager	
Date of issue…… ……..:	August 22, 2020	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	August 22, 2020	Initial released Issue	Lucas Pang

1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1) & KDB680106	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

2. EUT Description

2.1. Description of Device (EUT)

EUT Name	:	Wireless Charger
Model No.	:	CTF-T-ATE-191409, CTF-T-ATE-191409FREBLK, CTF-T-ATE-191409FRE XXX, (XXX means various color versions, e.g. PKX, BGX, YEX, BLK, WHX, etc)
DIFF.	:	There is no difference except for the appearance, shape and model name. So all the test were performed on the model CTF-T-ATE-191409FREBLK.
Trademark	:	**Casetify**
Power supply	:	Input : DC 5V/3A, 9V/2A, 12V/1.5A Output : 5W/7.5W/10W/15W
Operation frequency	:	112~205KHz
Modulation	:	MSK
Antenna Type	:	lnternal Antenna
Software version	:	V1.0
Hardware version	:	i200W-V2.1

Conditions requirement	Answers
Power transfer frequency is less than 1 MHz.	After measuring the product the transfer frequency is 0.112-0.205KHz
Output power from each primary coil is less than or equal to 15 watts.	After measuring the product the each primary coil power is 15 watts
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 includes only single primary.
Client device is placed directly in contact with the transmitter.	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Mobile exposure conditions only.
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.	After measuring the product the Max H-field Strength is 0.677A/m Far less than 50% of the MPE limit.

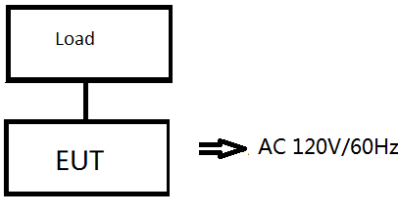
2.2. Accessories of Device (EUT)

Accessories1 : /
Manufacturer : /
Model : /
Ratings : /

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Load	--	--	--	--
2	DC Power	N/A	N/A	--	--

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Channel	Frequency (KHz)
1	128

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: CN0085

2.8. Measurement Uncertainty

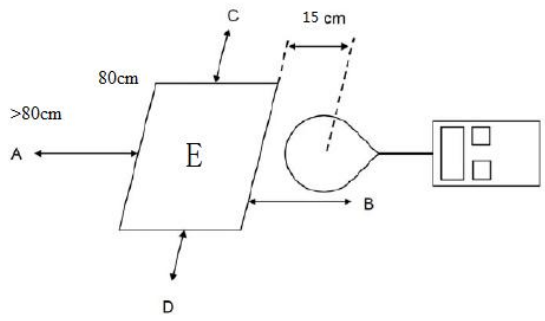
(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Conducted Emission Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB
	3.80dB
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB
	4.13dB
	2.56dB(Polarize: V)
Uncertainty for radio frequency	5.4×10-8
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3. Test Results and Measurement Data

3.1. RF EXPOSURE TEST

3.1.1. Test Specification

Test Requirement:	**FCC Rules and Regulations KDB680106**
Test Method:	§1.1307(b)(1) & KDB680106
Limits:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging.
Test Setup:	 E to position is 20cm.
Test Mode:	Charging + Transmitting Mode
Test Procedure:	1. The RF exposure test was performed on 360 degree turn table in anechoic chamber. 2. The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe. 3. The turn table was rotated 360d degree to search of highest strength. 4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. 5. The EUT were measured according to the dictates of KDB 680106D01v03.
Test Result:	PASS

3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	N-0231	2019.09.12	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M0675	2019.09.12	1 Year
3	Isotropic Electric Field Probe	narda	EP-601	511WX60706	2019.09.08	1 Year

3.1.3. Test data

For Full load mode:

E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.112-0.205	1.435	1.327	1.369	1.359	1.430	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.112-0.205	0.677	0.636	0.652	0.636	0.633	0.815	1.63

For Half load mode:

E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.112-0.205	1.288	1.259	1.301	1.311	1.225	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.112-0.205	0.603	0.541	0.589	0.470	0.531	0.815	1.63

For Null load mode:

E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.112-0.205	1.330	1.190	1.433	1.356	1.260	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.112-0.205	0.553	0.551	0.553	0.537	0.511	0.815	1.63

4. Photos of test setup

For Full load mode

For No load mode

5. Photographs of EUT

Refer to test report A2006348-C01-R03.

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