



RF Exposure Report

For

Applicant Name: Guanyu (Dongguan) Intelligent Technology Co., Ltd.
Address: 1001Room, No#3 Building, No#36 Fuxing Road, Chang'an Town, Dongguan City, Guangdong, China
EUT Name: Wireless Charger
Brand Name: N/A
Model Number: G333
Series Model Number: Refer to section 2

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF230815R00602
Test Standards: 47 CFR Part 1 Subpart I Section 1.1310
FCC ID: 2A2NS-G333
Test Conclusion: Pass
Test Date: 2023-08-15 to 2023-08-29
Date of Issue: 2023-08-30

Prepared By:

Elma.yang

Date:

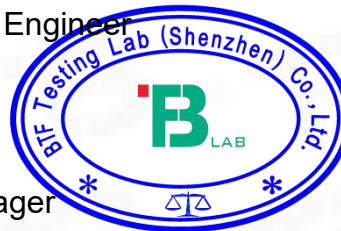
Elma.yang / Project Engineer
2023-08-30

Approved By:

Ryan.CJ

Date:

Ryan.CJ / EMC Manager
2023-08-30



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-08-30	Original
Note:		Once the revision has been made, then previous versions reports are invalid.

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Laboratory Condition

Ambient Temperature:	20°C to 25°C
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Product Information

2.1 Application Information

Company Name:	Guanyu (Dongguan) Intelligent Technology Co., Ltd.
Address:	1001Room, No#3 Building, No#36 Fuxing Road, Chang'an Town, Dongguan City, Guangdong, China

2.2 Manufacturer Information

Company Name:	Guanyu (Dongguan) Intelligent Technology Co., Ltd.
Address:	1001Room, No#3 Building, No#36 Fuxing Road, Chang'an Town, Dongguan City, Guangdong, China

2.3 General Description of Equipment under Test (EUT)

EUT Name	Wireless Charger
Under Test Model Name	G333
Series Model Name	G333S, GY-G333, GY-G333S
Description of Model name differentiation	Only the model name is different, the others are the same.

2.4 Test Mode

Test item	Test mode	Description
Radiated&Conducted Test cases	ANT1+ANT2	Mode 1: AC/DC Adapter + EUT +Mobile Phone (Battery Status: <1%) +Earbuds (Battery Status: <1%)
		Mode 2: AC/DC Adapter + EUT +Mobile Phone (Battery Status: <50%) +Earbuds (Battery Status: <50%)
		Mode 3: AC/DC Adapter + EUT +Mobile Phone (Battery Status: <100%) +Earbuds (Battery Status: <100%)
	ANT1 Alone	Mode 1: AC/DC Adapter + EUT +Mobile Phone (Battery Status: <1%)
		Mode 2: AC/DC Adapter + EUT +Mobile Phone (Battery Status: <50%)
		Mode 3: AC/DC Adapter + EUT +Mobile Phone (Battery Status: <100%)
	ANT2 Alone	Mode 1: AC/DC Adapter + EUT +Earbuds (Battery Status: <1%)
		Mode 2: AC/DC Adapter + EUT +Earbuds (Battery Status: <50%)
		Mode 3: AC/DC Adapter + EUT +Earbuds (Battery Status: <100%)
	No Loads	AC/DC Adapter + EUT(Null Load)

Note: All modes have been tested, and only the worst case ANT1+ANT2 mode are in the report.

3. Test Requirement

KDB 680106 D01 RF Exposure Wireless Charging App v03

According to the item 5.2 of KDB 680106 D01v03:

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

- Power transfer frequency is less than 1 MHz.
Yes, the device operate in the frequency range from 111.68kHz-190.97KHz
- Output power from each primary coil is less than or equal to 15 watts.
YES, the maximum output power of the primary coil is 5W.
- 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
Yes, the transfer system includes only single primary and secondary coils
- Client device is placed directly in contact with the transmitter.
Yes, client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
Yes, the EUT is a Wireless Charging.
- 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.
Yes, the EUT field strength levels are 50% X MPE limit.

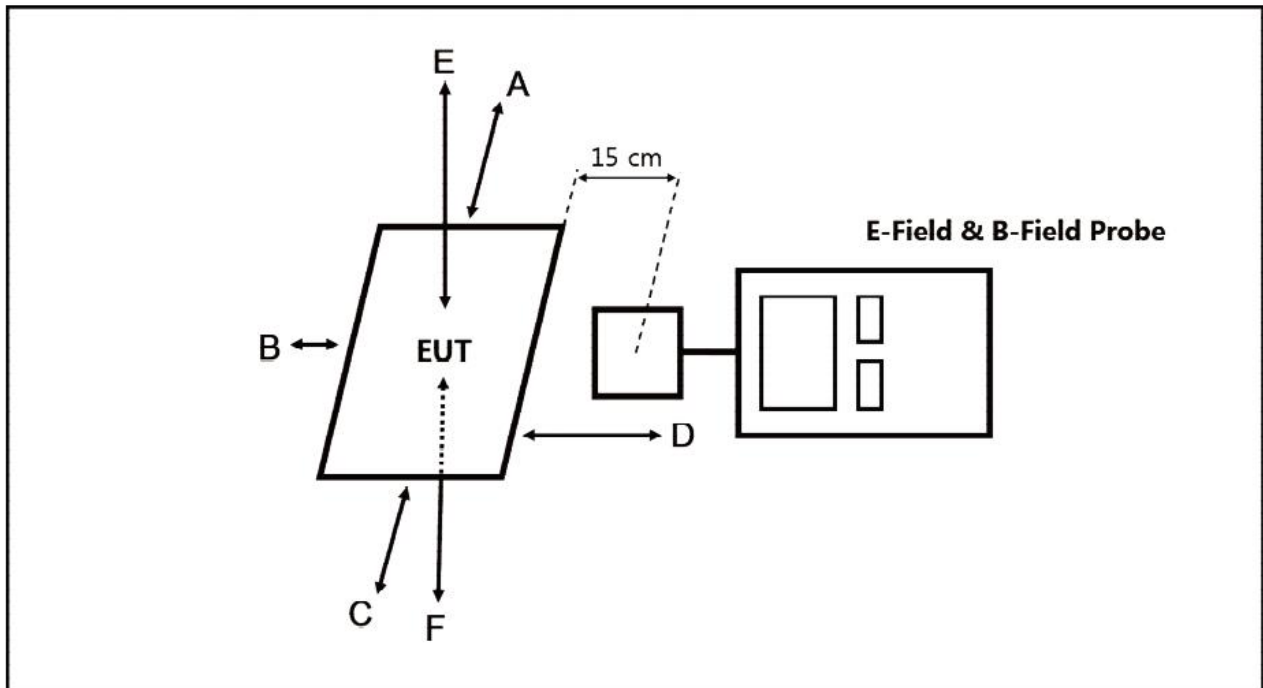
TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled 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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Test Equipment List

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2023.3.29	2024.3.28

Test Setup

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

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15cm) 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, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

3.1 Assessment Result

☒ Passed ☐ Not Applicable

ANT1

Test Position	Distance (cm)	Measured Value(A/m)	Limit(A/m)
Top	20	1.1828	1.63
Front	15	0.3962	1.63
Rear	15	0.2267	1.63
Left	15	0.4324	1.63
Right	15	0.4542	1.63

ANT2

Test Position	Distance (cm)	Measured Value(A/m)	Limit(A/m)
Top	20	0.2553	1.63
Front	15	0.1381	1.63
Rear	15	0.1829	1.63
Left	15	0.3159	1.63
Right	15	0.1291	1.63

ANT1+ANT2

Test Position	Distance (cm)	Measured Value(A/m)	Limit(A/m)
Top	20	1.4378	1.63
Front	15	0.5343	1.63
Rear	15	0.4096	1.63
Left	15	0.7483	1.63
Right	15	0.5833	1.63

According to October 2018 TCB workshop. Only H-field required.

3.2 Test Set-up Photo









Test Report Number: BTF230815R00602



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, China

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