

Report No.: TBR-C-202202-0062-41

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# RF Exposure Evaluation FCC ID: 2A4HP-GL-158DBL

# 1. Client Information

Applicant	(	Guangzhou Tengfei Commodity Trading Co., Ltd
Address	Fengze East Road No. 106 Guangzhou Nansha District 511458 China	
Manufacturer	:	Guangzhou Tengfei Commodity Trading Co., Ltd
Address		Fengze East Road No. 106 Guangzhou Nansha District 511458 China

# 2. General Description of EUT

<b>EUT Name</b>	:	3 in 1 Charging Station					
Model(s)		GL-158DBL, GL-158DRG, GL-158DSG, GL-158DSL, GL-158DL, GL-158DGL, GL-158DCP, GL-158DPR, GL-158DWH, GL-158DGR, GL-158DWH, GL-158DPK					
Sample ID		202202-0061_01-01-6	202202-0061_01-01-6				
Model Difference			uit diagrams are the same, color and internal structure is the same.				
		Operation Frequency:	300KHz-350KHz				
Product Description	:	Modulation Type:	ASK				
Description		Antenna:	Coil Antenna				
Power Supply  : For Adapter: Input: AC 100-240V~ 50/60Hz Output: DC 5V, 2.1A-3A Phone: DC 5V, 2A (Max) Watch: DC5V, 500mA (Max) Earphone:5V, 500mA (Max) Wireless Charging: 2.5W(Max)							
<b>Software Version</b>	Ŀ	V1.0	William William				
<b>Hardware Version</b>		V1.2					
Connecting I/O Port(S)		Please refer to the User's Manual					
Accessories	:	HONOR V30 PRO					

Note: More test information about the EUT please refer the RF Test Report.

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# **RF Exposure Considerations**

# 1. Measuring Standard

KDB 680106 D01 RF Exposure Wireless Charging App v03.

### 2. Requirements

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:

- (1) Power transfer frequency is less than 1 MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- (4) Client device is 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 anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable 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/f²)	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	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 <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	/	1.0	30

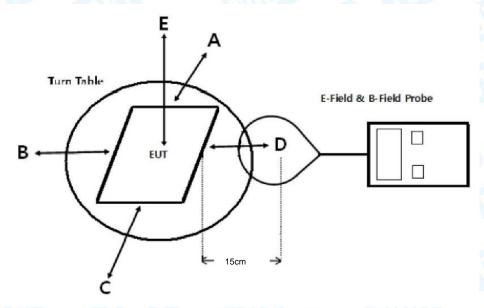
F=frequency in MHz

<sup>\*=</sup>Plane-wave equivalent power density

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).



3. Test Setup



Note: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.

#### **4.Test Procedure**

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface.
- 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.
- 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.

# 5. Test Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Magnetic field meter	NARDA	ELT-400	EE030	Sep. 10, 2021	Sep. 09, 2022

# 6. Deviation From Test Standard

No deviation

# 7. Mode of operation during the test / Test peripherals used

Test Modes:							
TM1	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <1%)	record					
TM2	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%)	record					
TM3	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <99%)	record					



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# 8. Test Result

E-Filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface

ч	CC	IIII I ES							
Ch a rain a		Measured E-Field Strength Values (V/m)					E-Field	E-Field	
	Charging	Frequency		Te	Strength	Strength			
	Battery	Range	А	В	С	D	Е	50% Limits	Limits
	Level	(MHz)						(V/m)	(V/m)
	1%	0.324	42.612	43.348	61.462	43.745	47.127	307.0	614.0
	50%	0.324	46.741	42.967	49.381	47.128	42.975	307.0	614.0
	99%	0.324	61.073	49.374	42,962	34,671	41.842	307.0	614.0

Note: V/m= A/m \*377

H-Filed Strength at 15 cm from the edges surrounding the EUT and 15 cm above the top surface

Charging		Frequenc Measured H-Field Strength Values (A/m) Test Position						H-Field Strength	H-Field Strength
Battery Level	,	y Range (MHz)	Α	В	С	D	Е	50% Limits (A/m)	Limits (A/m)
1%	uT	0.324	0.1411	0.1432	0.2036	0.142	0.1562	-	
1%	A/m	0.324	0.112	0.115	0.169	0.117	0.124	0.815	1.63
50%	uT	0.324	0.153	0.1423	0.1632	0.1558	0.1424	TIME	
50%	A/m	0.324	0.124	0.114	0.133	0.123	0.112	0.815	1.63
99%	uT	0.324	0.2024	0.1632	0.1424	0.1151	0.1387		17.17.7
99%	A/m	0.324	0.163	0.131	0.113	0.091	0.111	0.815	1.63

H-Field Strength at 20cm from the top surface of the EUT

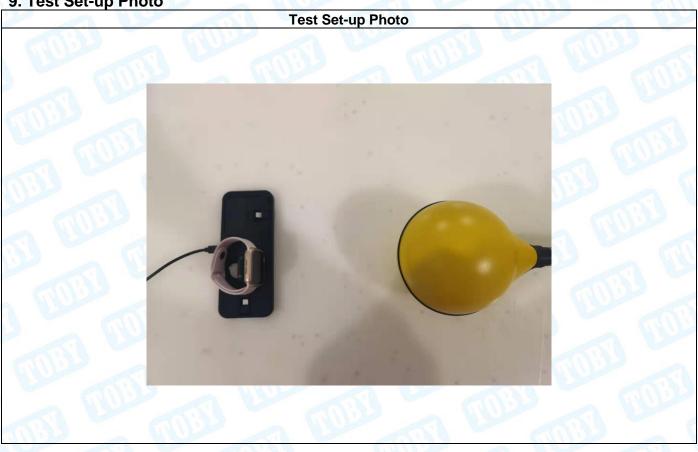
	Charging		Frequency	Measured H-Field Strength	FCC H-Field Strength	FCC H-Field	
۲	Battery	y Unit Ran		Values (A/m)	50% Limits	Strength Limits	
	Level		(MHz)	Test Position E	(A/m)	(A/m)	
	1%	uT	0.324	0.1341		A M. C. Andrews	
	1%	A/m	0.324	0.102	0.815	1.63	
	50%	uT	0.324	0.1225	-UNIV		
1	50%	A/m	0.324	0.092	0.815	1.63	
	99%	uT	0.324	0.1371	11000	W IV	
	99%	A/m	0.324	0.12	0.815	1.63	

Note: A/m=uT/1.25





9. Test Set-up Photo



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