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RF Exposure Evaluation FCC ID: 2AZIX-K207

1. Client Information

Applicant	(5)	SHENZHEN KEDING HARDWARE CO.,LTD				
Address	:	lo.18 Tangkeng 3Rd, Pingshan District, Shenzhen, Guangdong, China				
Manufacturer	5	SHENZHEN KEDING HARDWARE CO.,LTD				
Address		No.18 Tangkeng 3Rd, Pingshan District, Shenzhen, Guangdong, China				

2. General Description of EUT

EUT Name		Multifunctional Outlet Socket						
Model(s)	:	K207, K265A						
Sample ID	1	TBBJ-20210128-04_#1	TBBJ-20210128-04_#1					
Model Difference			All PCB boards and circuit diagrams are the same, the only difference is the appearance.					
		Operation Frequency:	110KHz-205KHz					
Product Description	:	Modulation Type:	ASK					
Description		Antenna:	Coil Antenna					
Power Supply		: Input: AC 125V/12A USB Output: DC 5V/2.1A Max Wireless Charge Output: 5W						
Software Version		N/A						
Hardware Version		N/A						
Connecting I/O Port(S)	:	Please refer to the User's Manual						
Accessories	5	: 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 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 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)

			Maria A. A. M. Salaman	1000					
Frequency range (MHz)	range Electric field strength (V/m) Magnetic field strength (A/m)		Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
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	/	/	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 ²)	30					
30-300	27.5	0.073	0.2	30					
300-1500	/	/	f/1500	30					
1500-100,000	/	/	1.0	30					
L	_								

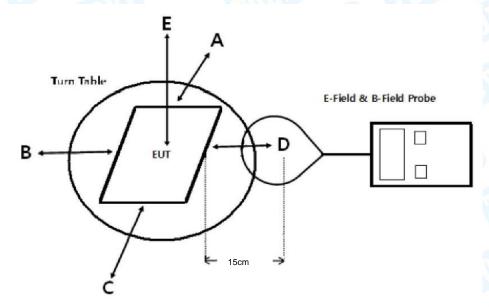
F=frequency in MHz

^{*=}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).

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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. 11, 2020	Sep. 10, 2021

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

u	ace									
	0 0	Frequency	Measured E-Field Strength Values (V/m)					E-Field	E-Field	
			Test Position					Strength	Strength	
	,	Battery Range		D C	_	_	50% Limits	Limits		
	Level	(MHz)	Α	В	С	D	E	(V/m)	(V/m)	
	1%	0.118	42.601	43.355	61.451	43.732	47.125	307.0	614.0	
	50%	0.118	46.748	42.978	49.387	47.125	42.978	307.0	614.0	
	99%	0.118	61.074	49.387	42.978	34.684	41.847	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)					H-Field	H-Field	
Battery	• •	unit	y Range			Test Positi	on		Strength	Strength
Level		(MHz)	Α	В	С	D	Е	50% Limits (A/m)	Limits (A/m)	
1%	uT	0.118	0.1413	0.1438	0.2038	0.145	0.1563		A - N3	
1%	A/m	0.118	0.113	0.115	0.163	0.116	0.125	0.815	1.63	
50%	uT	0.118	0.155	0.1425	0.1638	0.1563	0.1425			
50%	A/m	0.118	0.124	0.114	0.131	0.125	0.114	0.815	1.63	
99%	uT	0.118	0.2025	0.1638	0.1425	0.1150	0.1388	-	17-18-78	
99%	A/m	0.118	0.162	0.131	0.114	0.092	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
Battery	Unit	Range	Values (A/m)	50% Limits	Strength Limits
Level		(MHz)	Test Position E	(A/m)	(A/m)
1%	uT	0.118	0.1338		A Line
1%	A/m	0.118	0.107	0.815	1.63
50%	uT	0.118	0.1225	-0/1/12	-
50%	A/m	0.118	0.098	0.815	1.63
99%	uT	0.118	0.1375		
99%	A/m	0.118	0.11	0.815	1.63

Note: A/m=uT/1.25



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9. Test Set-up Photo



----END OF REPORT----