



Product Name:	3-in-1 Wireless Charger	
Product Model No.:	AXSPWRTRBN	
Model Difference:	(45)	11)
Transmitting mode:	Keep the EUT in continuously wireless charging mode	
Operation Frequency:	Phone coil: 110.4-205KHz Earphone coil: 110.4-205KHz Watch coil: 110.4-365KHz	
Power supply:	AC ADAPTER: Input: 100-240V, 50/60Hz,0.7A Max Output: 5 V 3 A, 9 V 3 A, 12 V 2.5 A, 30W Max 3-in-1 Wireless Charger:	
B	Input: 5 V = 3 A, 9 V = 3 A, 12 V = 2.5 A Outout1: 15W Max (Wireless phone) Output2: 5W Max (TWS) Output3: 5W Max (Watch)	15)

Test Mo	des:								
Mode 1	AC Adapter+Wireless charging mode (Phone coil: 15W)								
Mode 2	AC Adapter+Wireless charging mode (Phone coil: 10W)								
Mode 3	AC Adapter+Wireless charging mode (Phone coil: 5W)								
Mode 4	AC Adapter+Wireless charging mode (Earphone coil: 5W)								
Mode 5	AC Adapter+Wireless charging mode (Watch coil: 5W)								
Mode 6	AC Adapter+Phone coil (15W)+Watch coil (5W)								
Mode 7	AC Adapter+Phone coil (15W)+Earphone coil (5W)								
Mode 8	AC Adapter+Phone coil (15W)+Earphone coil (5W)+Watch coil (5W)								
Note: All	Ill load, half load, and no-load tests have been conducted in each mode, only the worst-case was								

Note: All full load, half load, and no-load tests have been conducted in each mode, only the worst-case was recorded in the report. Mode 8 full load is the worst mode.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	3-in-1 Wireless Charger	Distribution Axessorize inc	AXSPWRTRBN	1	EUT
E-2	AC ADAPTER	1	G301CU	/	EUT
E-3	Wireless charging load	1	EESON	/	AE
E-4	Wired headset	Hege Technology Co.,Ltd	EA125) 1	AE
E-5	Wireless charging load		YBZ	1	AE





KDB 680106 D01 Wireless Power Transfer v04

2 Requirements

According to the item 5 of KDB 680106 D01 v04:

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

(1) The power transfer frequency is below 1 MHz.

The EUT frequency range is:

Phone coil: 110.4-205KHz Earphone coil: 110.4-205KHz Watch coil: 110.4-365KHz

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts. The output power is equal to 15W, Only three coil.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact) EUT can be directly charged.

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

EUT is a mobile device

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

Yes, the EUT field strength levels are less 50% x MPE limit.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Yes, EUT has only three coil.









Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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 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	/	/	f/300	6
1500-100,000	/	Ī	5	6
	(B) Limits for Genera	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	/	1.0	30

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











































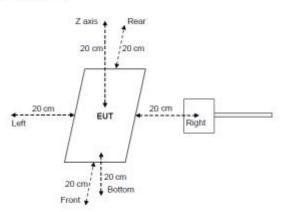












4 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) 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.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

5 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	H-field	±0.7dB
2	E-field	±1.06dB

Decision Rule

- Uncertainty is not included
- Uncertainty is included









6 Test Instruments list

Test Equipment	Test Equipment Manufacturer Model No.		SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPy-8H3D+E3D	3101	March 12, 2024	March 11, 2025	
Magnetic Amplitude and Gradient Probe System	SPEAG	MAGPV-DAS	3088	March 12, 2024	March 11, 2025	





7 Test Result

E-Filed Strength at 20 cm 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	50%Limits (V/m)	Limits (V/m)	test result
0.1104-0.365	0.36	0.52	0.54	0.69	0.28	307	614	PASS

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position	Test Position	Test Position	Test Position	Test Position	50%Limits (V/m)	Limits (A/m)	test result	
		Б	C	D					
0.1104-0.365	0.33	0.21	0.49	0.37	0.41	0.815	1.63	PASS	











7. Test Set-up Photo

