

Human Active Technology, LLC

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
PWR-ACC-WRLS, PWR-ACC-WRLS-STRP

REPORT NUMBER:
240300858SHA-002

ISSUE DATE:
June 27, 2024

DOCUMENT CONTROL NUMBER:
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Applicant : **Human Active Technology, LLC**
100 Kuebler Rd, Easton, Pennsylvania, 18040, United States

Manufacturer : **Shanghai Arex Electronics Co., Ltd**
No. 789 Jiaxin Road Jiading Area Shanghai, China | 201818

Factory : **Shanghai Arex Electronics Co., Ltd**
No. 789 Jiaxin Road Jiading Area Shanghai, China | 201818

FCC ID : **2BGFH-PWRWRLS**

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310
KDB447498 D01 General RF Exposure Guidance v06
KDB 680106 D01 RF Exposure Wireless Charging Apps v04

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Project Engineer

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Reviewer

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
240300858SHA-002	Rev. 01	Initial issue of report	June 27, 2024

TEST REPORT**Measurement result summary**

TEST ITEM	FCC REFERENCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

TEST REPORT**1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product name:	FPDU
Type/Model:	PWR-ACC-WRLS, PWR-ACC-WRLS-STRP
Description of EUT:	The EUT is a smart socket outlet which supports Wireless Charger function. There are two models in all. Their electrical structure is the same, the only difference is that one of the products with an additional direct plug check. We test model PWR-ACC-WRLS-STRP and list the wors data in this report.
Rating:	PWR-ACC-WRLS: 125V,15A,60Hz, total:65W max, USB-C1 output:5V3A,9V3A,12V3A15V3A,20V3.25A;65W max, USB-C2 output:5V3A,9V2.22A,12V1.67A;20W max, USB-A output:5V3A,9V2A,12V1.5A;18W max Wireless charging: QI 5W,7.5W,15W(max) PWR-ACC-WRLS-STRP: PWR-STR-125V,15A,60Hz;PWR-ACC-125V,12A,60Hz, USB-C1 output:5V3A,9V3A,12V3A,15V3A,20V3.25A;65W max, USB-C2 output:5V3A, 9V2.22A, 12V1.67A;20W max, USB-A output: 5V3A, 9V2A, 12V1.5A; 18W Wireless charging: QI 5W, 7.5W, 15W(max) Total:65W max
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Tabletop <input type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample number:	A240319-22
Sample received date:	March 19, 2024
Date of test:	April 10-April 26, 2024

1.2 Technical Specification

Frequency Range:	111kHz – 205kHz
Modulation:	FSK
Antenna:	Coil antenna

TEST REPORT**1.3 Description of Test Facility**

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT**2 TEST SPECIFICATIONS****2.1 Standards or specification**

FCC PART 1 SECTION 1.1310

KDB 680106 D01 RF Exposure Wireless Charging Apps v04

KDB447498 D01 General RF Exposure Guidance v06

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Brand and Model	Description
1	Wireless load	iphone 15	100% power level
2	Wireless load	iphone 15	50% power level
3	Wireless load	iphone 15	0% power level

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	23	52	101

TEST REPORT**2.5 Instrument list**

Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Exposure Level Tester	Narda	NBM-550	EC 6113	2024-10-07
<input checked="" type="checkbox"/>	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113	2024-10-07
<input checked="" type="checkbox"/>	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113	2024-10-07
<input checked="" type="checkbox"/>	Exposure Level Tester(1Hz-400kHz)	Narda	ELT-400	EC 2928	2024-10-02

TEST REPORT

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

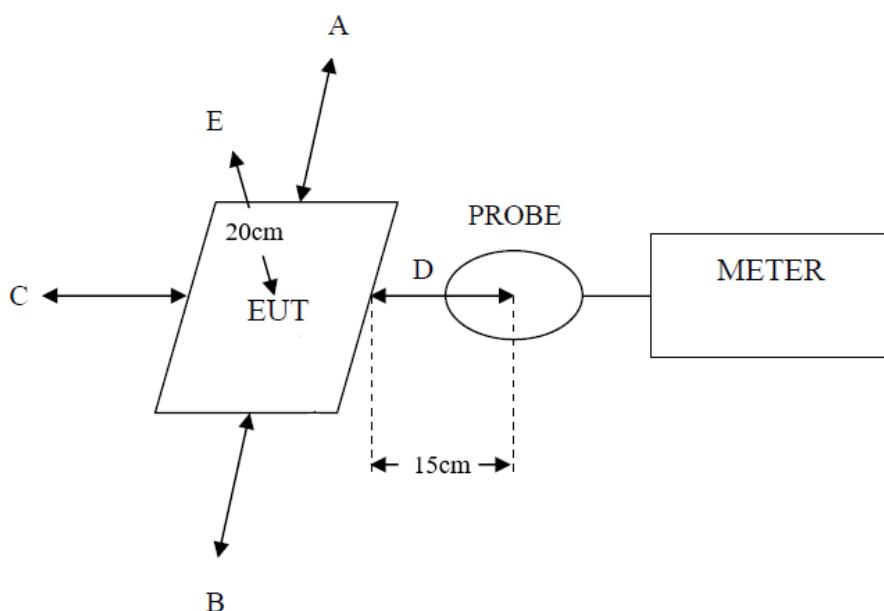
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm ²]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
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

3.2 Assessment Configuration



TEST REPORT**3.3 Assessment Results**

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.350	1.63 *0.5	Pass
B: Left	15	0.310	1.63 *0.5	Pass
C: Front	15	0.066	1.63 *0.5	Pass
D: Back	15	0.134	1.63 *0.5	Pass
E: Top	20	0.060	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	1.15	614 *0.5	Pass
B: Left	15	1.51	614 *0.5	Pass
C: Front	15	2.79	614 *0.5	Pass
D: Back	15	2.49	614 *0.5	Pass
E: Top	20	2.05	614 *0.5	Pass

***** END *****