

RF EXPOSURE REPORT

Product Name: Powerbank with wireless charger
FCC ID: 2ADK3-XO-9771
Trademark: N/A
Model Number: XO-9771
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Sample Received Date: Nov. 15, 2022
Sample tested Date: Nov. 15, 2022 to Dec. 8, 2022
Issue Date: Dec. 8, 2022
Report No.: CTB221117006RFX
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310, 47 CFR§2.1091; KDB 680106 D01 RF Exposure Wireless Charging App v03r01
Test Results: PASS
Remark: This is wireless charger EMF report.

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Approved by:



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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. wireless charger power: 10W

1.2. Test Supporting System

Adapter

Description : Adapter

Model No. : HP18A-0902000-AU

Power Input : AC100-240V~ 1.0A 50/60Hz

Output: 9V $\overline{\text{---}}$ 2.0A

DC Line : Unshielded, Detachable 1.2m

2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Item	Equipment	Brand	Model No.	Serial No.	Last calibration	Calibrated until
1	EMF TESTER	Wavecontrol	SMP160	19SN0989	2021.08.20	2023.08.29

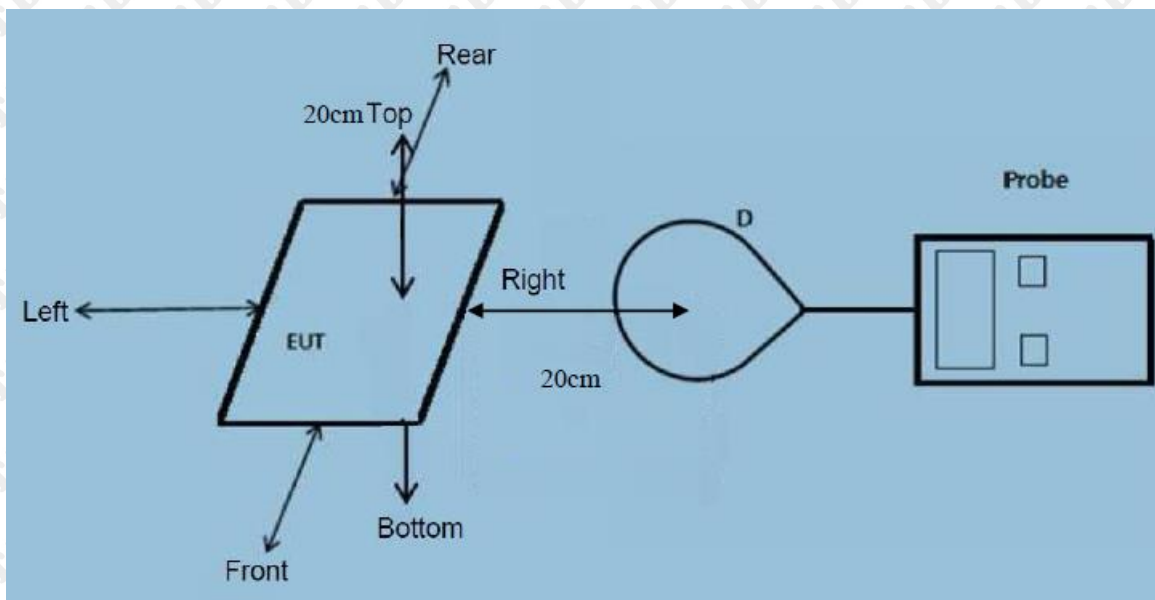
3. METHOD OF MEASUREMENT

3. 1.Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: RF Exposure Wireless Charging Apps v 03r01.

4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device

Test Procedure:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) 20cm-0cm measured from the center of all the sides.c) The turn table was rotated 360d degree to search of highest strength.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- e) The EUT were measured according to the dictates of KDB 680106 D01 RF Exposure Wireless Charging App v03r01.

4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 V03R01

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 110KHz to 205KHz

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 10W.

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.

Yes, only has one coils.

4) Client device is placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

No, submit a KDB inquiry to get test guideline and fully follow the KDB inquiry guideline.

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.

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

4.3. E and H field Strength

H-Field Strength at 20 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (A/m)
not load	110-205	0.04	0.06	0.01	0.10	0.06	0.01	1.63
1%	110-205	0.25	0.14	0.26	0.26	0.03	0.16	1.63
50%	110-205	0.15	0.13	0.20	0.15	0.05	0.03	1.63
99%	110-205	0.10	0.07	0.07	0.10	0.05	0.04	1.63

E-Field Strength at 20 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (V/m)
not load	110-205	0.02	0.20	0.11	0.06	0.03	0.02	614
1%	110-205	1.60	1.46	1.02	0.63	0.89	0.84	614
50%	110-205	1.15	1.31	1.01	0.66	0.66	0.64	614
99%	110-205	1.30	1.20	0.89	0.48	0.41	0.20	614

H-Field Strength at 18 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (A/m)
not load	110-205	0.06	0.07	0.01	0.10	0.06	0.01	1.63
1%	110-205	0.30	0.34	0.30	0.31	0.04	0.20	1.63
50%	110-205	0.20	0.23	0.30	0.22	0.08	0.08	1.63
99%	110-205	0.11	0.10	0.11	0.13	0.08	0.08	1.63

E-Field Strength at 18 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (V/m)
not load	110-205	0.04	0.20	0.20	0.06	0.03	0.02	614
1%	110-205	1.62	1.56	1.50	1.11	1.23	1.02	614
50%	110-205	1.40	1.36	1.21	1.21	1.20	1.00	614
99%	110-205	1.38	1.22	1.02	1.32	1.12	1.03	614

H-Field Strength at 16 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (A/m)
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not load	110-205	0.08	0.07	0.01	0.10	0.06	0.01	1.63
1%	110-205	0.32	0.35	0.35	0.35	0.05	0.24	1.63
50%	110-205	0.23	0.28	0.34	0.23	0.10	0.10	1.63
99%	110-205	0.15	0.16	0.14	0.18	0.10	0.10	1.63

E-Field Strength at 16 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (V/m)
not load	110-205	0.07	0.20	0.20	0.10	0.03	0.02	614
1%	110-205	1.64	1.61	1.64	1.45	1.42	1.29	614
50%	110-205	1.41	1.50	1.60	1.46	1.33	1.16	614
99%	110-205	1.40	1.54	1.41	1.33	1.25	1.10	614

H-Field Strength at 14 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (A/m)
not load	110-205	0.08	0.08	0.01	0.10	0.07	0.01	1.63
1%	110-205	0.38	0.36	0.36	0.38	0.06	0.25	1.63
50%	110-205	0.28	0.30	0.35	0.25	0.12	0.12	1.63
99%	110-205	0.18	0.18	0.15	0.20	0.11	0.11	1.63

E-Field Strength at 14 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (V/m)
not load	110-205	0.08	0.21	0.21	0.10	0.03	0.02	614
1%	110-205	1.70	1.63	1.70	1.55	1.45	1.31	614
50%	110-205	1.64	1.52	1.61	1.51	1.35	1.20	614
99%	110-205	1.52	1.55	1.47	1.36	1.29	1.15	614

H-Field Strength at 12 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (A/m)
not load	110-205	0.09	0.10	0.01	0.10	0.08	0.01	1.63
1%	110-205	0.40	0.41	0.38	0.40	0.09	0.28	1.63
50%	110-205	0.30	0.31	0.38	0.28	0.14	0.15	1.63
99%	110-205	0.20	0.20	0.17	0.22	0.13	0.13	1.63

E-Field Strength at 12 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (V/m)
not load	110-205	0.09	0.20	0.22	0.11	0.03	0.02	614
1%	110-205	1.74	1.70	1.71	1.57	1.50	1.35	614
50%	110-205	1.66	1.70	1.62	1.50	1.37	1.33	614
99%	110-205	1.58	1.61	1.50	1.40	1.30	1.24	614

H-Field Strength at 10 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (A/m)
not load	110-205	0.10	0.12	0.01	0.11	0.10	0.01	1.63
1%	110-205	0.41	0.44	0.41	0.42	0.44	0.32	1.63
50%	110-205	0.33	0.32	0.42	0.30	0.33	0.33	1.63
99%	110-205	0.22	0.21	0.20	0.25	0.21	0.18	1.63

E-Field Strength at 10 cm surrounding the EUT,all have been tested, only worse case is reported.

battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits Test (V/m)
not load	110-205	0.10	0.22	0.25	0.13	0.04	0.02	614
1%	110-205	1.80	1.75	1.74	1.60	1.52	1.41	614
50%	110-205	1.71	1.73	1.62	1.54	1.40	1.35	614
99%	110-205	1.72	1.64	1.52	1.42	1.31	1.27	614

H-Filed Strength at 8 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (A/m)
0.110-0.205	0.54	0.52	0.51	0.50	0.57	0.35	1.63

E-Filed Strength at 8 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (V/m)
0.110-0.205	1.81	1.74	1.72	1.62	1.43	1.20	614

H-Filed Strength at 6 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (A/m)
0.110-0.205	0.61	0.67	0.65	0.64	0.66	0.45	1.63

E-Filed Strength at 6 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (V/m)
0.110-0.205	1.81	1.74	1.72	1.83	1.44	1.22	614

H-Filed Strength at 4 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (A/m)
0.110-0.205	0.62	0.63	0.71	0.62	0.72	0.42	1.63

E-Filed Strength at 4 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (V/m)
0.110-0.205	1.81	1.83	1.75	1.84	1.41	1.22	614

H-Filed Strength at 2 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (A/m)
0.110-0.205	0.72	0.73	0.70	0.74	0.73	0.55	1.63

E-Filed Strength at 2 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (V/m)
0.110-0.205	1.91	1.82	1.75	1.82	1.42	1.35	614

H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (A/m)
0.110-0.205	0.80	0.83	0.85	0.81	0.82	0.65	1.63

E-Filed Strength at 0 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Test Position Bottom	Limits (V/m)
0.110-0.205	2.02	1.94	1.83	1.75	1.56	1.40	614

Note: All the mode have been tested which test distance below 10 cm,such as not loaded, loaded with 1 client and battery levels at 1, 50 and 99 % charged, only worse case(loaded with 1 client and battery levels at 50%) was showed in this report.

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