

# TEST REPORT

Report No.: BCTC2306986737-2E

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Applicant: ASAP Technology(Jiangxi) Co., Ltd.

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Product Name: Aircharge Mag

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Model/Type  
reference: AIR0781

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Tested Date: 2023-06-09 to 2023-06-20

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Issued Date: 2023-06-20

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**Shenzhen BCTC Testing Co., Ltd.**



**FCC ID: 2APXN-LACC119**

Product Name: Aircharge Mag  
Trademark: Aircharge  
Model/Type reference: AIR0781  
AIR0781-0.5M, AIR0781B, AIR0781B-0.5M  
Prepared For: ASAP Technology(Jiangxi) Co., Ltd.  
Address: Ji'an Industrial Park, Ji'an, Jiangxi, 343100, China  
Manufacturer: ASAP Technology(Jiangxi) Co., Ltd.  
Address: Ji'an Industrial Park, Ji'an, Jiangxi, 343100, China  
Prepared By: Shenzhen BCTC Testing Co., Ltd.  
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,  
Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Sample Received Date: 2023-06-09  
Sample tested Date: 2023-06-09 to 2023-06-20  
Issue Date: 2023-06-20  
Report No.: BCTC2306986737-2E  
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310  
Test Results: PASS

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

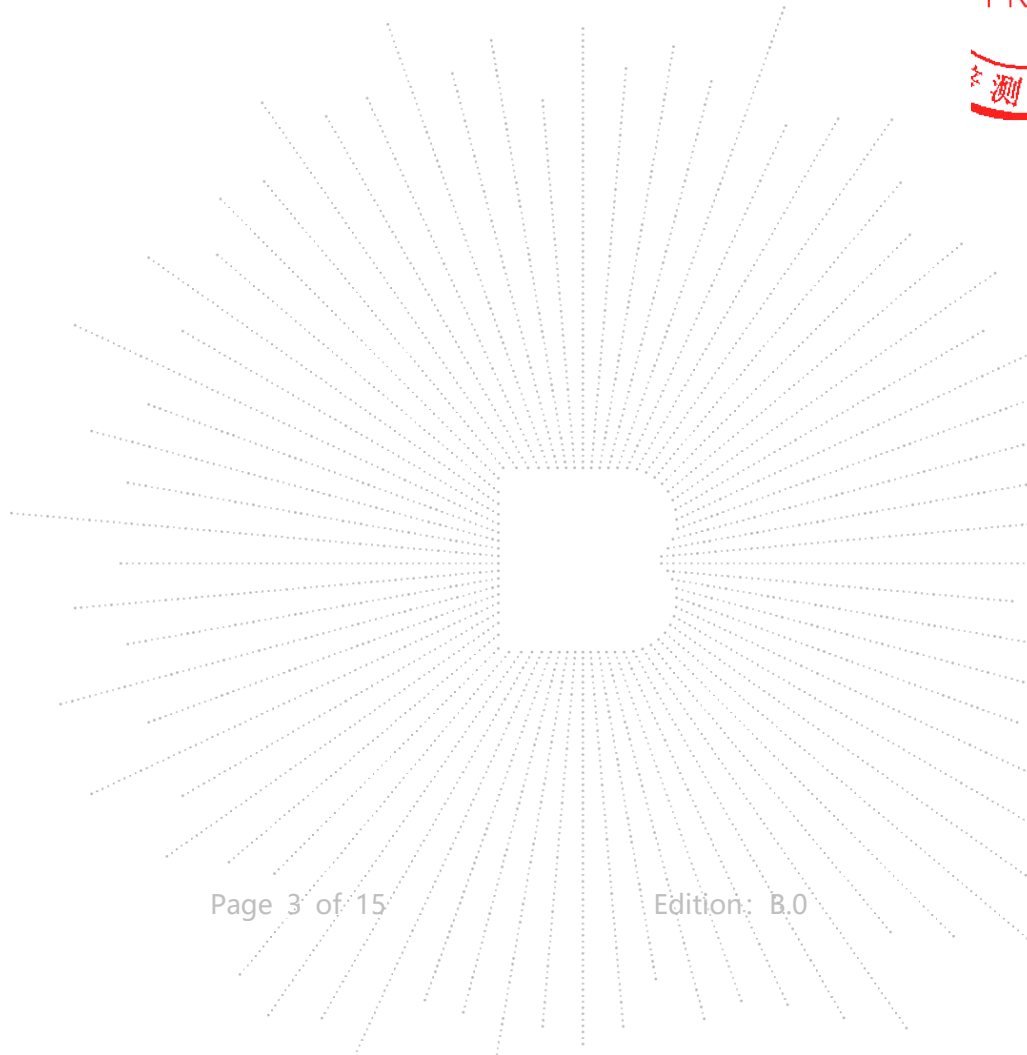
The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

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**1. Version**

Report No.	Issue Date	Description	Approved
BCTC2306986737-2E	2023-06-20	Original	Valid

TEST  
TC  
OVER  
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## 2. Product Information

### 2.1 Product Information

Model/Type Ref.:	AIR0781 AIR0781-0.5M, AIR0781B, AIR0781B-0.5M
Model differences:	All the model are the same circuit and RF module, except model names, appearance color and cable length.
Product Description:	Aircharge Mag
Operation Frequency:	5W: 115kHz-205kHz 15W: 350-400kHz
Antenna installation:	loop coil antenna
Ratings:	Input: DC 9V 2.22A Wireless Charging Output: 5W, 15W
Hardware Version:	A
Software Version:	V1.0

### 2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	Adapter	N/A	CD122	N/A	Auxiliary

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 2.3 Test Mode

Test Mode 1	Wireless charging 5W
Test Mode 2	Wireless charging 15W

### 3. Test Facility And Test Instrument Used

#### 3.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

#### 3.2 Test Instrument Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electromagnet-ic radiation tester	Wavecontrol	SMP160	19SN0980	May 15, 2023	May 14, 2024
Electromagne-tic field probe	Wavecontrol	WP400-3	20WP120082	Sept. 08, 2022	Sept. 07, 2023
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

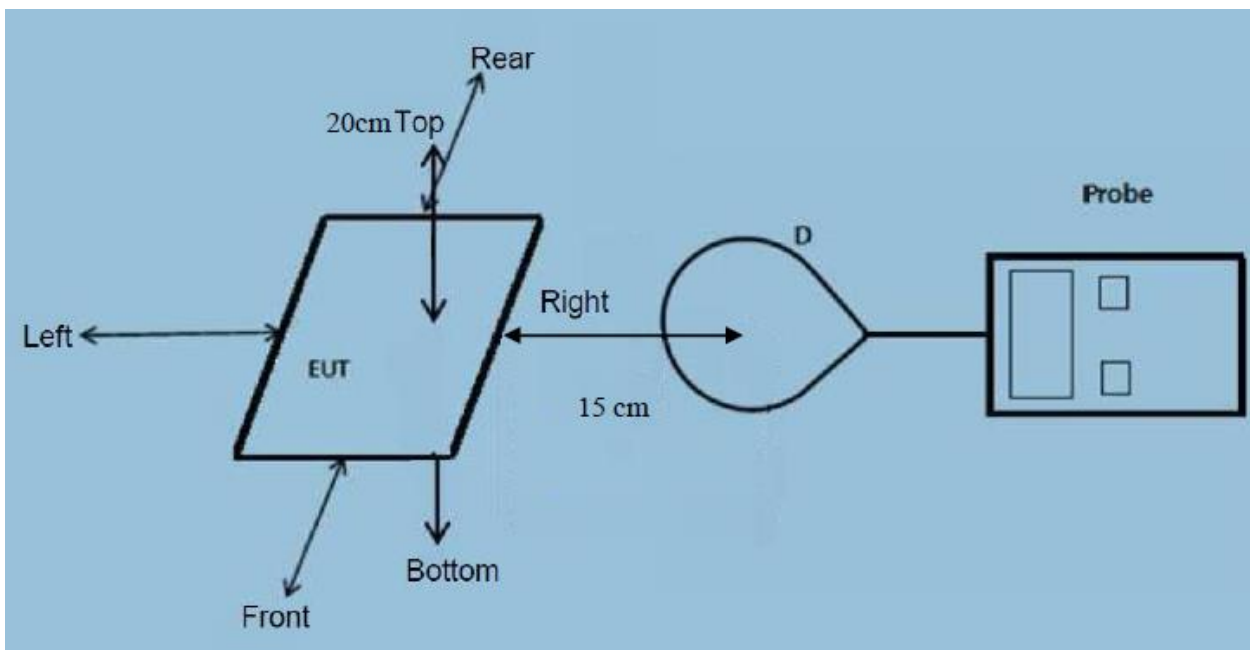
CO., LTD.

## 4. Method Of Measurement

### 4.1 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 §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

### 4.2 Block Diagram Of Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

### 4.3 Limit

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

### 4.4 Test procedure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT were measured according to the dictates of KDB 680106D01v03.



#### 4.5 Equipment Approval Considerations

The EUT does comply with item 5(b) of KDB 680106 D01v03

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 115-400KHz

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 15W.

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, the prototype has only a single coil.

4) Client device is inserted in or 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).

Yes, the EUT is a mophie device charging mat.

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.

Yes, the EUT field strength level is less than the 10% x MPE limit.

## 4.6 E and H field Strength

5W

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position Top	10% Limits Test (V/m)	Limits Test (V/m)
1%	0.115-0.205	0.076	0.071	0.066	0.098	0.032	0.095	61.4	614
50%	0.115-0.205	0.064	0.062	0.089	0.090	0.039	0.063	61.4	614
99%	0.115-0.205	0.070	0.081	0.100	0.101	0.049	0.076	61.4	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery level	Frequency Range (MHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)
1%	0.115-0.205	0.100	0.097	0.115	0.113	0.042	0.118
50%	0.115-0.205	0.088	0.097	0.083	0.124	0.046	0.122
99%	0.115-0.205	0.078	0.096	0.095	0.134	0.057	0.094

Battery level	Frequency Range (MHz)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position Top(A/m)	10% Limits Test (A/m)	Limits Test (A/m)
1%	0.115-0.205	0.080	0.078	0.092	0.090	0.034	0.094	0.163	1.63
50%	0.115-0.205	0.071	0.078	0.066	0.099	0.037	0.098	0.163	1.63
99%	0.115-0.205	0.062	0.076	0.076	0.108	0.046	0.075	0.163	1.63

Note: A/m = uT ÷ 1.25

15W

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position Top	10% Limits Test (V/m)	Limits Test (V/m)
1%	0.35-0.4	0.075	0.087	0.074	0.105	0.044	0.093	61.4	614
50%	0.35-0.4	0.077	0.071	0.093	0.095	0.038	0.078	61.4	614
99%	0.35-0.4	0.072	0.072	0.090	0.100	0.039	0.091	61.4	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

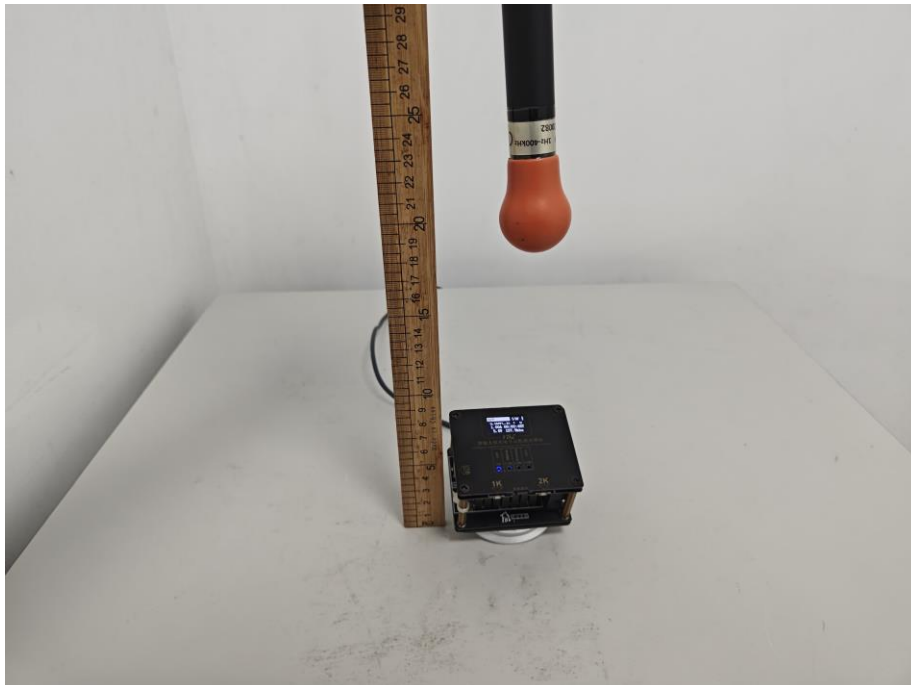
Battery level	Frequency Range (MHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)
1%	0.35-0.4	0.091	0.093	0.077	0.121	0.053	0.086
50%	0.35-0.4	0.095	0.094	0.085	0.135	0.056	0.118
99%	0.35-0.4	0.079	0.107	0.099	0.136	0.053	0.102

Battery level	Frequency Range (MHz)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position Top(A/m)	10% Limits Test (A/m)	Limits Test (A/m)
1%	0.35-0.4	0.073	0.074	0.062	0.097	0.042	0.069	0.163	1.63
50%	0.35-0.4	0.076	0.075	0.068	0.108	0.045	0.095	0.163	1.63
99%	0.35-0.4	0.063	0.085	0.079	0.109	0.042	0.082	0.163	1.63

Note: A/m = uT ÷ 1.25

## 5. Photographs Of Test Set-Up

20CM



15CM





**STATEMENT**

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

**Address:**

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

E-Mail: [bctc@bctc-lab.com.cn](mailto:bctc@bctc-lab.com.cn)

\*\*\*\*\* **END** \*\*\*\*\*