

RF EXPOSURE Test Report

Product: INIU SnapGo Power Bank

Trade Mark: INIU

Model Number: P78

FCC ID: 2A2ND-P78

Prepared for

Shenzhen Topstar Industry Co., Ltd.
4011, Baoshan Times Building, Minqiang Community, Minzhi Street,
Longhua District, Shenzhen, Guangdong, China

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd
Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan
Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen,
China
Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110
Website: <http://www.sz-hongbiao.com>

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	DESCRIPTION OF EUT.....	5
1.2	TEST MODE	5
1.3	TEST SETUP	6
1.4	ANCILLARY EQUIPMENT	6
2	TEST FACILITIES AND ACCREDITATIONS	7
2.1	TEST LABORATORY	7
2.2	ENVIRONMENTAL CONDITIONS	7
2.3	MEASUREMENT UNCERTAINTY	7
2.4	TEST SOFTWARE.....	7
3	LIST OF TEST EQUIPMENT	8
4	RF EXPOSURE.....	9
4.1	MAXIMUM PERMISSIBLE EXPOSURE	9
4.1.1.	<i>Limit.....</i>	<i>9</i>
4.1.2.	<i>Test Procedures.....</i>	<i>9</i>
4.1.3.	<i>Test Setup.....</i>	<i>9</i>
4.1.4.	<i>Test Result</i>	<i>10</i>
5	PHOTOGRAPHS OF THE TEST SETUP.....	14

TEST RESULT CERTIFICATION

Applicant's Name.....: Shenzhen Topstar Industry Co., Ltd.
Address: 4011, Baoshan Times Building, Minqiang Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer's Name: Shenzhen Topstar Industry Co., Ltd.
Address: 4011, Baoshan Times Building, Minqiang Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China

Product description

Product name: INIU SnapGo Power Bank
Model Number: P78

Standards: FCC CFR 47 PART 1 , 1.1310

Test procedure.....: KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test.....:

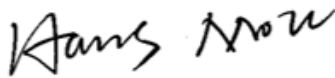
Date (s) of performance of tests.....: June 08, 2026~June 15, 2026

Test Result.....: **Pass**

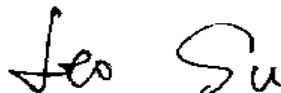
Testing Engineer :


(Z o e S u)

Technical Manager :


(Hans Mou)

Authorized Signatory :


(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	INIU SnapGo Power Bank
Model name:	P78
Series Model:	P781, P782, P783, P784, P785, P786, P78-E, P78-E1, P781-E, P782-E, P783-E
Different of series model:	The differences between the product models are merely variations in model names. The other designs are exactly the same.
Operation frequency:	115-205kHz, 360.9kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Battery:	Cell Capacity: 5000 mAh*2 (10000 mAh) Battery Capacity: 5000mAh (7.84 V)/39.2 Wh Rated Capacity: 6200 mAh(5 V)
Power supply:	Cell Capacity: 5000mAh x 2 (10000mAh) Battery Capacity: 5000mAh(7.84V)/39.2Wh Rated Capacity: 6500mAh(5V)/3611mAh(9V)/2708mAh(12V)/2166mAh(15V) IN1/IN2: 5V=3A 9V=3A 12V=2.25A 27W (Max) OUT1+OUT2: 15W(Max) OUT1/OUT2: 5V=3A 9V=3A 12V=3A 15V=3A 45W (Max) OUT1/OUT2+Wireless OUT:15W(Max) Wireless OUT: (Qi2)5W/7.5W/10W/15W/25W Total (OUT1+OUT2+Wireless OUT): 15W(Max)
Adapter information:	N/A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Wireless Output: 5W
2	Wireless Output: 7.5W
3	Wireless Output: 10W
4	Wireless Output: 15W
5	Wireless Output: 25W

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Phone	MYM93LL/A	HMV3W3W1 9W	Apple Inc.
Phone	iPhone 12pro	DNPF9UL20 D9L	Apple Inc.
Phone	iPhone 12pro Max	FF2LDX4T60 D5H	Apple Inc
Phone	LE2120	8602840564 41073	Shenzhen Oneplus Technology Co., Ltd

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
Designation Number:	848916
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
E-field	± 2.5 dB	
H-field	± 4.2 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
MAGPy V2.6	Schmid & Partner Engineering AG	MAGPy V2.6	V2.6

3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E077	Magnetic Amplitude and Gradient Probe System	Schmid & Partner Engineering AG	MAGPy-8H3D+E3D	3107	2026-05-11	2027-05-10
2	HB-E078	Magnetic Amplitude and Gradient Probe System	Schmid & Partner Engineering AG	MAGPy-DAS	3097	2026-05-11	2027-05-10

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 RF Exposure

4.1 Maximum Permissible Exposure

4.1.1. Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
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	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled 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
1500-100000			1	30

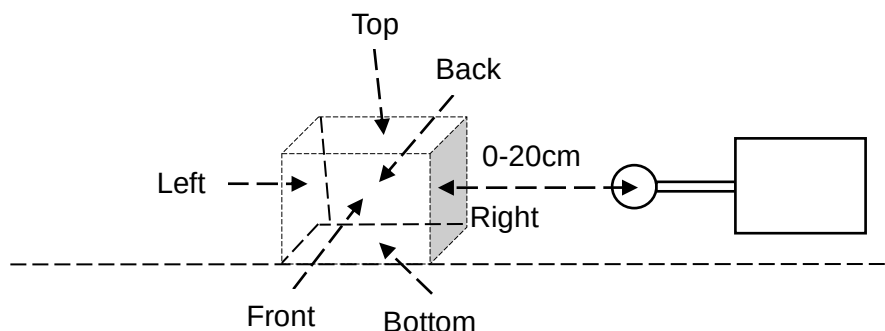
f = frequency in MHz * = Plane-wave equivalent power density

Per the guidance of KDB 680106, the E-field and H-field limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310 shown in the table above, any device (both portable and mobile) operating at frequencies below 100 kHz is considered compliant for the purpose of equipment authorization when the external (unperturbed) temporal peak field strengths do not exceed the 83 V/m for the electric field strength (E) and 90A/m for the magnetic field strength (H).

4.1.2. Test Procedures

- The RF exposure test was performed in anechoic chamber.
- Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm.
- The highest emission level was recorded and compared with limit.

4.1.3. Test Setup



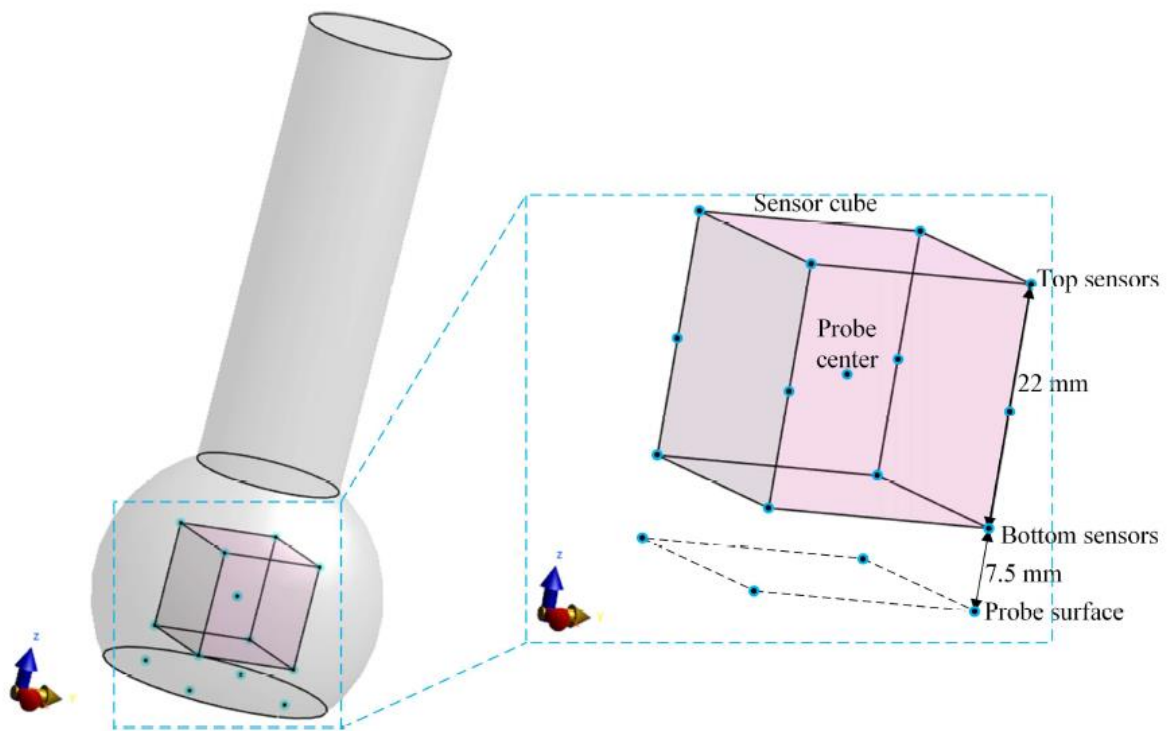
4.1.4. Test Result

For portable exposure condition:

Operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.

H-field measurements taken every 2 cm (starting as close to 20 cm as possible) on each edge/top surface of the host/client pair were also evaluated for portable use conditions. The report reflects data for the worst 0 cm test distance mode only.

In the MAGPy V2.6 implementation,the H-field is evaluated at the center of the probe(which is 18.5mm above the surface of its tip) and also at the surface of its tip.



The total H-field at the tip surface $H_{tip-surface}$ can be extrapolated using the total H-field measured at the top and bottom sensors (Figure 2.5), H_{top} and H_{bottom} , and the normalized H-field gradient G_n . The field extrapolation formula is a polynomial function of G_n ($\Delta d = 7.5\text{mm}$ is the sensor offset of the bottom sensors).

$$H_{tip-surface} = \frac{H_{bottom} + H_{top}}{2} \sum_{i=0}^7 c_i [G_n (\Delta d + 11 \text{ mm})]^i$$

The polynomial coefficients c_i were determined from simulations of 70 coils covering normalized gradients up to 80 for the 97.5th percentile. This provides a conservative estimate of the total H-field at the tip surface without large overestimation. Since the local (i.e., not spatial averaged) values of $H_{tip-surface}$ obtained from simulations were used for the curve fitting, $H_{tip-surface}$ estimated can be considered not suffered from the sensor averaging error. The field extrapolation

for- mula is applied to four pairs of top and bottom sensors along the vertical (i.e., along z axis) edges of the sensor cube, and the H-field at the probe tip reported by MAGPy V2.6 adopts the average of the four extrapolated values.

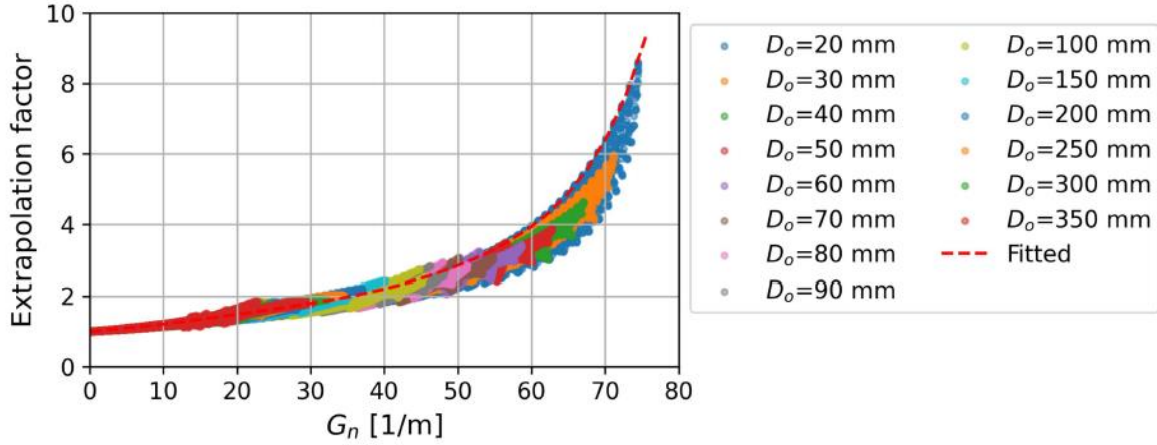


Figure 2.6: Extrapolation factors (i.e., ratios between the simulated results of $H_{tip-surface}$ and $\frac{H_{bottom}+H_{top}}{2}$) plotted as a function of the normalized H-field gradient. The data are from simulations of 70 coils with varying outer diameters D_o and filling ratios (0.1–0.9). The predication of the polynomial function $\sum_{i=0}^7 c_i [G_n (\Delta d + 11 \text{ mm})]^i$ with coefficients fitted for the 97.5th percentile (i.e., the red dashed line) is also shown.

Coefficient	Value
c_0	1.00
c_1	1.00
c_2	-0.764
c_3	14.5
c_4	-47.7
c_5	70.7
c_6	-48.7
c_7	13.1

Table 2.2: Coefficients of the polynomial function for the H-field extrapolation to the tip surface of the probe, determined with 0.975 quantile regression (i.e., the 97.5th percentile)

Test condition: Mode 3 operating mode with client device (1 % battery status of client device).
Measurement results directly tested using MAGPy.

Maximum permissible Exposure(115-205kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	0	49.9	0.87
<1%	Left	0	6.68	1.15
<1%	Right	0	5.69	0.69
<1%	Front	0	17.5	0.58
<1%	Back	0	36.1	0.23
<1%	Bottom	0	85	0.46
Limit			614	1.63
Margin Limit (%)			13.84%	70.56%

When setting MAGPy to select compliance location as probe tip, the measured value is extrapolated to 0mm as the result.

Maximum permissible Exposure(115-205kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	0	58	1.03
<1%	Left	0	9.47	1.4
<1%	Right	0	6.1	1.26
<1%	Front	0	18.3	0.95
<1%	Back	0	36.4	0.87
<1%	Bottom	0	97.7	0.79
Limit			614	1.63
Margin Limit (%)			15.91%	85.89%

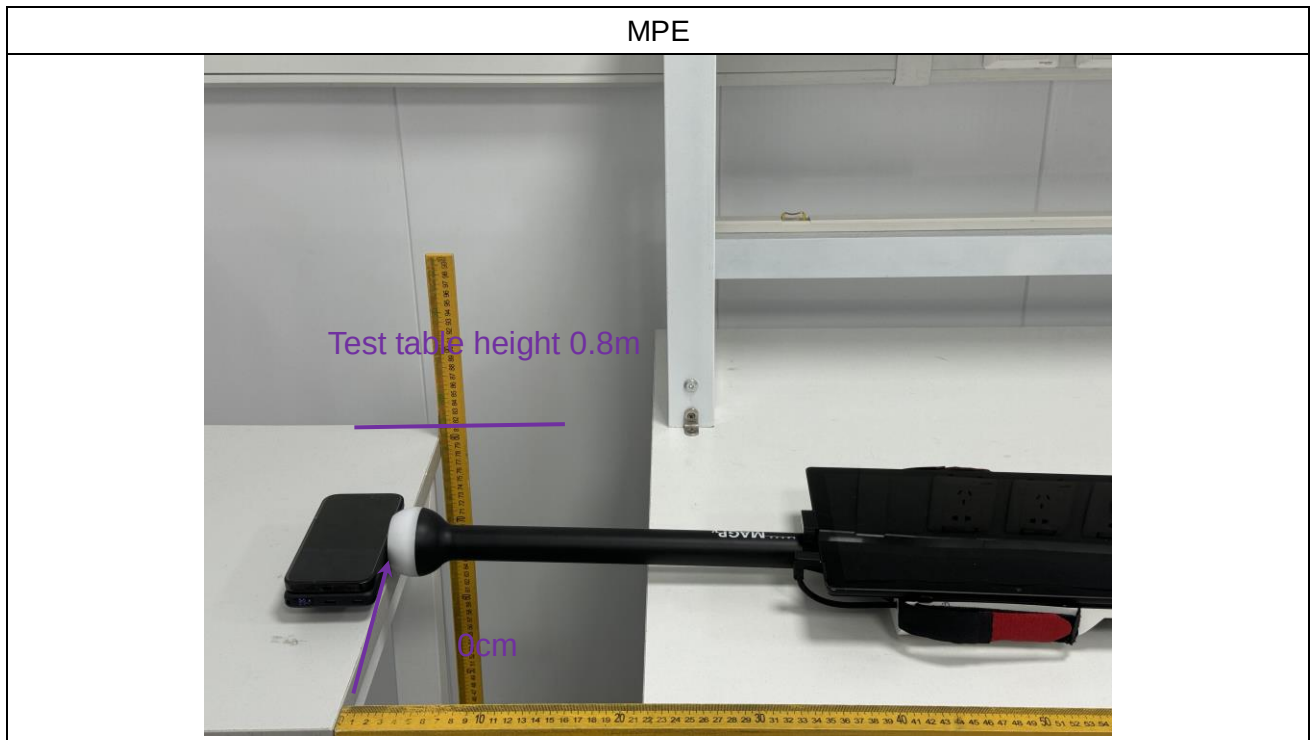
Test condition: Mode 5 operating mode with client device (1 % battery status of client device).
Measurement results directly tested using MAGPy.

Maximum permissible Exposure(360.9kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	0	35.3	0.11
<1%	Left	0	12.3	0.39
<1%	Right	0	10.2	0.24
<1%	Front	0	19.7	0.45
<1%	Back	0	18.4	0.05
<1%	Bottom	0	62.9	0.12
Limit			614	1.63
Margin Limit (%)			10.24%	27.61%

When setting MAGPy to select compliance location as probe tip, the measured value is extrapolated to 0mm as the result.

Maximum permissible Exposure(360.9kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	0	53.8	0.18
<1%	Left	0	13.5	0.94
<1%	Right	0	14.9	0.75
<1%	Front	0	20.5	1.11
<1%	Back	0	19.2	0.32
<1%	Bottom	0	72.3	0.19
Limit			614	1.63
Margin Limit (%)			11.78%	68.1%

5 Photographs of the Test Setup



******* END OF REPORT *******