

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640 Fax: +86-755-26648637

Website: www.cqa-cert.com

Report Template Version: V05 Report Template Revision Date: 2021-11-03

RF Exposure Evaluation Report

Report No.: CQASZ20241202677E-02

Applicant: Shenzhen ICHECKEY Technology Co.,Ltd.

Address of Applicant:
B302, Building 4, TianYanXuan, No.1 Lane14, Bantian East Village, Bantian Street,

LongGang District, Shenzhen China. 518000

Equipment Under Test (EUT):

Product: 2 in 1 Foldable Magnetic Wireless Charger Power Bank

Model No.: T17
Test Model No.: T17

Brand Name: ICHECKEY

FCC ID: 2AYA5-T17

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

KDB 680106 D01 RF Exposure Wireless Charging Base App v04r01

Date of Receipt: 2024-12-19

Date of Test: 2024-12-19 to 2024-12-27

Date of Issue: 2025-1-14
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

(Joe Wang)

Reviewed By:

(Timo Lei)

Approved By:

(Jack Ai)





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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20241202677E-02	Rev.01	Initial report	2025-1-14





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3 General Information

3.1 Client Information

Applicant:	Shenzhen ICHECKEY Technology Co.,Ltd.
Address of Applicant:	B302, Building 4, TianYanXuan, No.1 Lane14, Bantian East Village, Bantian Street, LongGang District, Shenzhen China. 518000
Manufacturer:	Shenzhen ICHECKEY Technology Co.,Ltd.
Address of Manufacturer:	B302, Building 4, TianYanXuan, No.1 Lane14, Bantian East Village, Bantian Street, LongGang District, Shenzhen China. 518000
Factory:	Shenzhen ICHECKEY Technology Co.,Ltd.
Address of Factory:	B302, Building 4, TianYanXuan, No.1 Lane14, Bantian East Village, Bantian Street, LongGang District, Shenzhen China. 518000

3.2 General Description of EUT

Product Name:	2 in 1 Foldable Magnetic Wireless Charger Power Bank
Model No.:	T17
Test Model No.:	T17
Brand Name:	ICHECKEY
Software Version:	V3
Hardware Version:	V1
EUT Power Supply:	Battery: 10000mAh(38.5Wh/3.85V) Charging by Adapter DC 5.0V, 1.0A DC 5V-3A/9V-2A

3.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	115kHz~205kHz 315kHz~330kHz
Modulation Type:	ASK
Antenna Type:	Induction coil
Antenna Gain:	0dBi

Note:

1. In section 15.31(m), regards to the operating frequency range less 1 MHz.



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3.4 Test Environment

Operating Environment:				
Temperature:	25.5 °C			
Humidity:	53 % RH			
Atmospheric Pressure:	100.9 mbar			
Test Mode:				
Mode a:	Keep the EUT Charging+ Out Put for Watch 2.5W			
Mode b:	Keep the EUT Charging+Wireless Charging load Out Put for Phone 5W			
Mode c:	Keep the EUT Charging+Keep the EUT Wireless Out Put for Phone 5W+ for Watch 2.5W 7.5W			
Mode d:	Keep the EUT at Wireless Out Put for Watch 2.5W			
Mode e:	Keep the EUT Wireless Charging load Out Put for Phone 5W			
Mode f:	Keep the EUT Wireless Charging load Out Put for Phone 7.5W			
Mode g:	Keep the EUT Wireless Charging load Out Put for Phone 10W			
Mode h:	Keep the EUT Wireless Charging load Out Put for Phone 15W (Max)			
Mode i:	Keep the EUT Wireless Out Put for Phone 15W+for Watch 2.5W 17.5W (Total MAX)			

Note: The above test modes all include full load, empty load, and half load, The worst-case state reflected in this report is the fully loaded state

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	XIAOMI	/	1	CQA
Wireless charge load1	1	/	1	CQA
Wireless charge load2	/	1	1	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
	,	,	1	1



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3.6 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

3.8 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
Magnetic	Schmid &				
Amplitude and	Partner				
Gradient	Engineering	MAGPy-8H3D+E3D	3096	2024/3/12	2025/3/12
Probe	AG				
System					
Magnetic	Schmid &				
Amplitude and	Partner				
Gradient	Engineering	MAGPy-DAS	3093	2024/3/12	2025/3/12
Probe	AG				
System					



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3.9 Test Software

Software name	Manufacturer	Model	Version
MAGPy V2.0	Schmid & Partner Engineering AG	MAGPy V2.0	V2.0



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3.10

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: 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 part1.1307(b)

Table 1—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) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6
(B) Limits t	for General Populati	on/Uncontrolled Exp	osure	
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30

Note 1: f = frequency in MHz; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, $680106\ D01\ RF$ Exposure Wireless Charging Apps v04

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

4.1.2 Test Procedure

- a. The RF exposure test was performed in anechoic chamber.
- b. 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.
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of TCB

Workshop "41-Part-18-&-Wireless-Power-Transfer - April 27,2022"



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Equipment Approval Considerations item 5 b) of KDB 680106 D01 Wireless Power Transfer v04

Requirement	Device
1.Power transfer frequency is less than 1 MHz	Yes. The operating frequencies are.Operating
	Frequency: 115 kHz - 205 kHz 315kHz - 330kHz
2. Output power from each primary coil is less than	Yes. The maximum output power is:Wireless
or equal to 15 watts.	Output: 15W(Max)
3. The system may consist of more than one	Yes. EUT has two coils that can work
source primary coils, charging one or more clients.	simultaneously
If more than one primary coil is present,the coil	
pairs may be powered on at the sametime.	
4. Client device is placed directly in contact with	Yes. The client device is placed directly in contact
the transmitter.	with the transmitter.
5.Mobile exposure conditions only (portable	No, This EUT is mounted under a desk/table and
exposure conditions are not covered by this	the user's legs may be in direct contact with the
exclusion)	device for long periods of time, so this device was
	evaluated as a portable WPT
6. The aggregate H-field strengths anywhere at or	Yes, The H-field measurements for each edge/top
beyond 20 cm surrounding the device, and 20cm	surface of the host/client pair at every 2cm, starting
away from the surface from all coils that by design	from as close as possible out to 20cm were also
can simultaneously transmit, and while those coils	evaluated for portable usecondition.
are simultaneously energized, are demonstrated to	
be less than 50% of the applicable MPE limit.	

4.1.3 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.

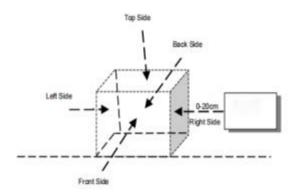
H-field measurements taken every 2 cm (starting as close to 20 cm as possible) on each edge/top surface of the host/client pair were also evaluated for portable use conditions. The report reflects data for the worst 0 cm test distance mode only.

Test condition 1: Mode 3 operating mode with client device (1 % battery status of client device) -test distance: 0cm



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4.1.4 Test Setup



Note: 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

4.1.5 Test Results

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.

Test condition 1: Mode 3 operating mode with client device (1 % battery status of client device) -test distance: 0cm



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Test Mode: Mode a

H-field strength test result:

test distance: 0cm

Measurement results directly tested using MAGPy.

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<1%	Тор	0	19.2	0.09	
<1%	Left	0	15.3	0.11	
<1%	Right	0	13.6	0.13	
<1%	Front	0	41.8	0.22	
<1%	Back	0	44.7	0.17	
<1%	Bottom	0	59.6	0.24	
Limit			307	0.815	
test result			PASS	PASS	

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

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<1%	Тор	0	24.3	0.22	
<1%	Left	0	16.6	0.12	
<1%	Right	0	15.8	0.13	
<1%	Front	0	52.8	0.35	
<1%	Back	0	44.2	0.23	
<1%	Bottom	0	53.6	0.41	
Limit			307	0.815	
test result			PASS	PASS	



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Test Mode: Mode i

H-field strength test result:

test distance: 0cm

Measurement results directly tested using MAGPy.

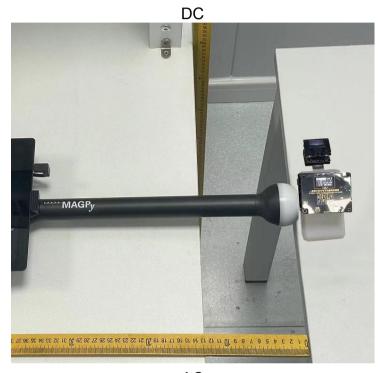
Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<1%	Тор	0	17.2	0.14	
<1%	Left	0	15.2	0.16	
<1%	Right	0	16.4	0.13	
<1%	Front	0	41.2	0.12	
<1%	Back	0	46.4	0.26	
<1%	Bottom	0	55.3	0.39	
Limit			307	0.815	
test result			PASS	PASS	

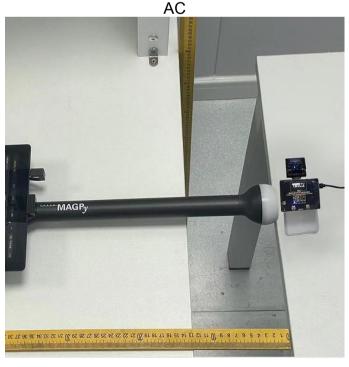
When setting MAGPy to select compliance location as probe tip, the measured value is extrapolated to 0mm as the result.

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<1%	Тор	0	22.3	0.21	
<1%	Left	0	14.1	0.19	
<1%	Right	0	15.3	0.10	
<1%	Front	0	50.2	0.36	
<1%	Back	0	51.2	0.23	
<1%	Bottom	0	63.3	0.40	
Limit			307	0.815	
test result			PASS	PASS	

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP





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