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CNAS L5785

RF Exposure Evaluation Report

Report No.: CQASZ20250801955E -02

Applicant: Shenzhen lcheckey Technology Co.,Ltd

Address of Applicant: Block A Building 4 Tian Yanxuan, No 1 Lane 14 Bantian East country Bantian Street, LongGang District, Shenzhen City China

Equipment Under Test (EUT):

Product: Wireless Charging Station(3-in-1)

Model No.: T22

Test Model No.: T22

Brand Name: N/A

FCC ID: 2AYA5-T22

Standards: 47 CFR Part 1.1307 47 CFR Part 1.1310
KDB 680106 D01 RF Exposure Wireless Charging Base App v04r01

Date of Receipt: 2025-8-21

Date of Test: 2025-8-21 to 2025-9-5

Date of Issue: 2025-9-5

Test Result : **PASS***

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

Tested By:

Joe Wang

(Joe Wang)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250801955E -02	Rev.01	Initial report	2025-9-5

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3 General Information

3.1 Client Information

Applicant:	Shenzhen lcheckey Technology Co.,Ltd
Address of Applicant:	Block A Building 4 Tian Yanxuan, No 1 Lane 14 Bantian East country Bantian Street, LongGang District, Shenzhen City China
Manufacturer:	Shenzhen lcheckey Technology Co.,Ltd
Address of Manufacturer:	Block A Building 4 Tian Yanxuan, No 1 Lane 14 Bantian East country Bantian Street, LongGang District, Shenzhen City China
Factory:	Shenzhen lcheckey Technology Co.,Ltd
Address of Factory:	Block A Building 4 Tian Yanxuan, No 1 Lane 14 Bantian East country Bantian Street, LongGang District, Shenzhen City China

3.2 General Description of EUT

Product Name:	Wireless Charging Station(3-in-1)
Model No.:	T22
Test Model No.:	T22
Brand Name:	N/A
Software Version:	V02
Hardware Version:	V02
EUT Power Supply:	INPUT: 100-240V~50/60Hz OUTPUT:5.0V $\Rightarrow$ 3.0A 15.0W 9.0V $\Rightarrow$ 2.22A 19.98W 12.0V $\Rightarrow$ 1.67A 20.0W Max

3.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	Earbuds 3.5W 115kHz~205kHz Watch 2.5W 315kHz~330kHz Phone 15W 115kHz~205kHz
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.

3.4 Test Environment

Operating Environment:	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	99.5Kpa
Test Mode:	
Mode a:	Keep the EUT at Wireless Out Put for Watch 2.5W
Mode b:	Keep the EUT at Wireless Out Put for Earbuds 3.5W
Mode c:	Keep the EUT at Wireless Out Put for Phone 5W
Mode d:	Keep the EUT at Wireless Out Put for Phone 7.5W
Mode e:	Keep the EUT at Wireless Out Put for Phone 10W
Mode f:	Keep the EUT at Wireless Out Put for Phone 15W (Max)
Mode g:	Keep the EUT at wireless output phone 15W+watch 2.5W
Mode h:	Keep the EUT at wireless output phone 15W +Earbuds 3.5W
Mode i:	Keep the EUT at wireless output phone 10W+watch 2.5W
Mode j:	Keep the EUT at wireless output phone 10W +Earbuds 3.5W
Mode k:	Keep the EUT at wireless output phone 7.5W +Earbuds 2.5W
Mode l:	Keep the EUT at wireless output phone 7.5W +Earbuds 3.5W
Mode m:	Keep the EUT at wireless output phone 5W +Earbuds 2.5W
Mode n:	Keep the EUT at wireless output phone 5W +Earbuds 3.5W
Mode o:	Keep the EUT Wireless Out Put for Phone +for Watch +Earbuds
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	/	/	/	CQA
Phone	APPLE	/	/	CQA
watch	APPLE	/	/	CQA
earphone	/	/	/	CQA

2) Cable

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

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
Electromagnetic field analyzer	Narda	EHP-200A	AC-012	2024/3/12	2026/3/11

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) Limits for Occupational/Controlled Exposures				
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
300–1500			f/300	6
1500–100,000			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
1500–100,000			1.0	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

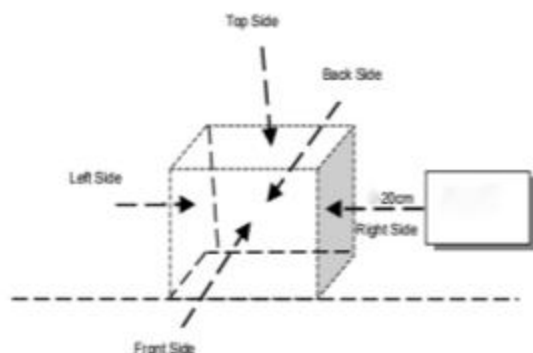
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

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

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) . E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm(Top) from the center of the probe(s) to the edge of the device.

4.1.3 Test Setup



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);

4.1.4 Test Results

The EUT does comply with item 5 KDB680106 D01 v04r01.

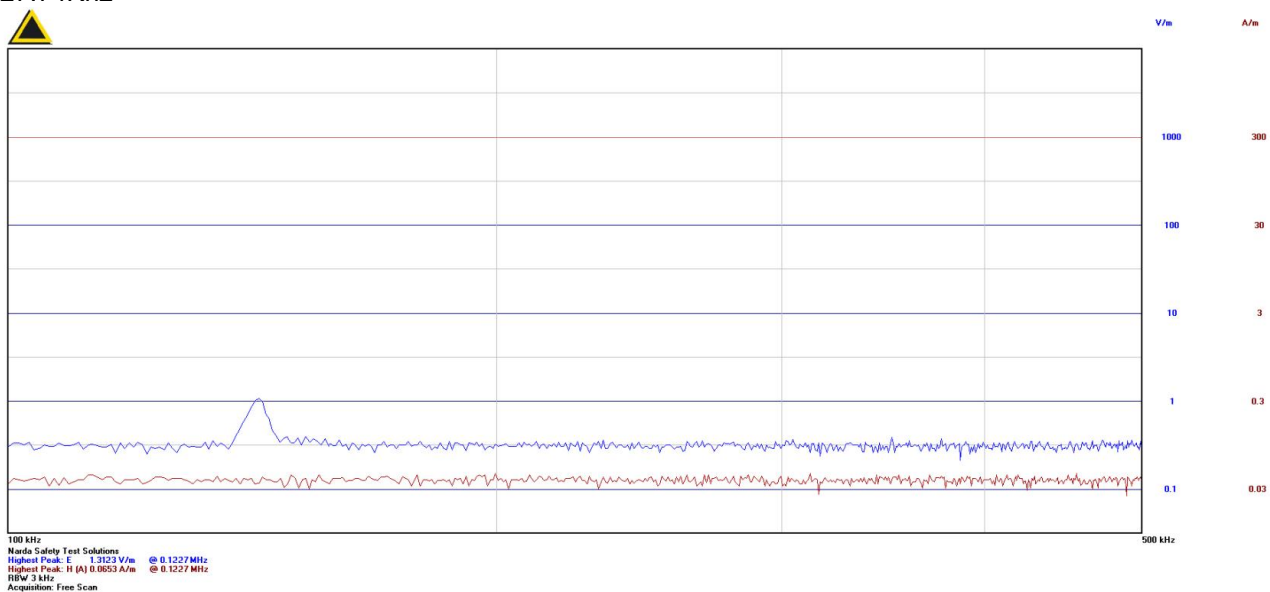
Requirement	Device
1.Power transfer frequency is less than 1 MHz	Yes. The operating frequency range are.Operating frequency range:115-205KHz,315-330kHz
2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes. The maximum output power is:Wireless Output: 15W(Max)
3.A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)	Yes. The client device is placed directly in contact with the transmitter.
4. Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes. Mobile exposure conditions only.
5.The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken	Yes, tests were conducted at distances of 20cm, 22cm, and 24cm. The report only presents the worst data.

along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.	
6. For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.	Yes. See the test result in item 4.1.5

4.1.5 Test Results

Mode f

127.74Khz



Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.6431	0.0414
<1%	Left	20	0.6315	0.0632
<1%	Right	20	0.3142	0.0653
<1%	Front	20	1.3123	0.0132
<1%	Back	20	0.2471	0.0215
Limit			614	1.63
test result			PASS	PASS

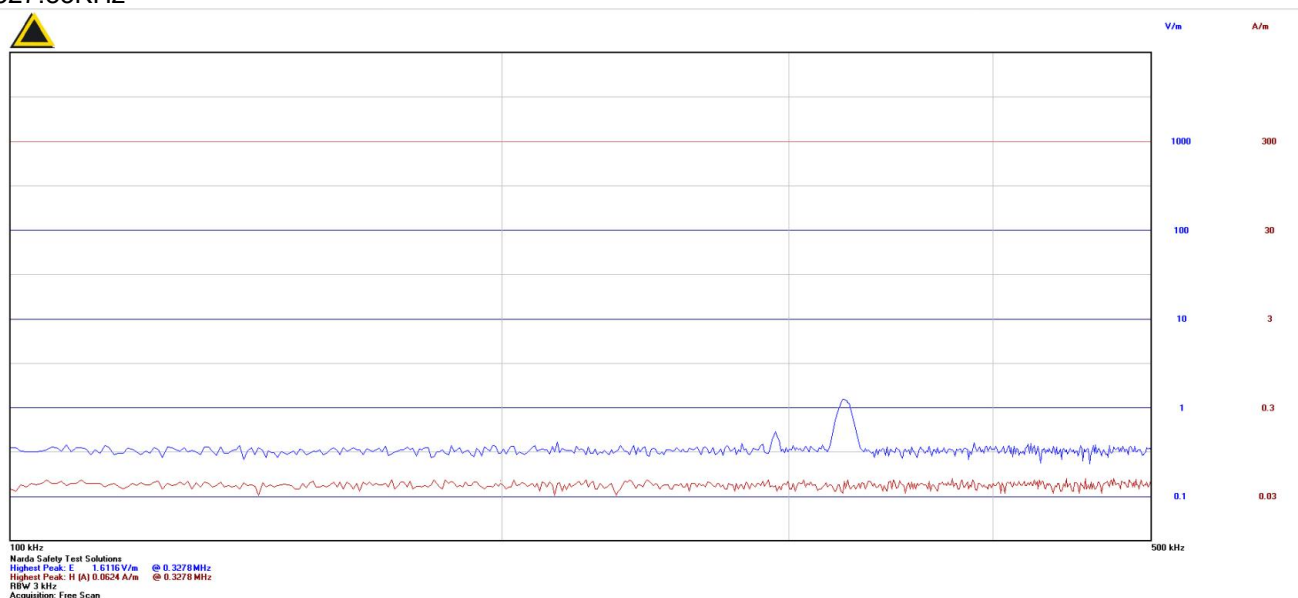
Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.5214	0.0123
<50%	Left	20	0.5623	0.0263
<50%	Right	20	0.3341	0.0215
<50%	Front	20	0.1311	0.0542
<50%	Back	20	0.3121	0.0325
Limit			614	1.63
test result			PASS	PASS

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.6112	0.0234

<99%	Left	20	0.3325	0.0225
<99%	Right	20	0.3253	0.0336
<99%	Front	20	1.2425	0.0225
<99%	Back	20	0.2345	0.0364
Limit			614	1.63
test result			PASS	PASS

Mode a

327.83KHz



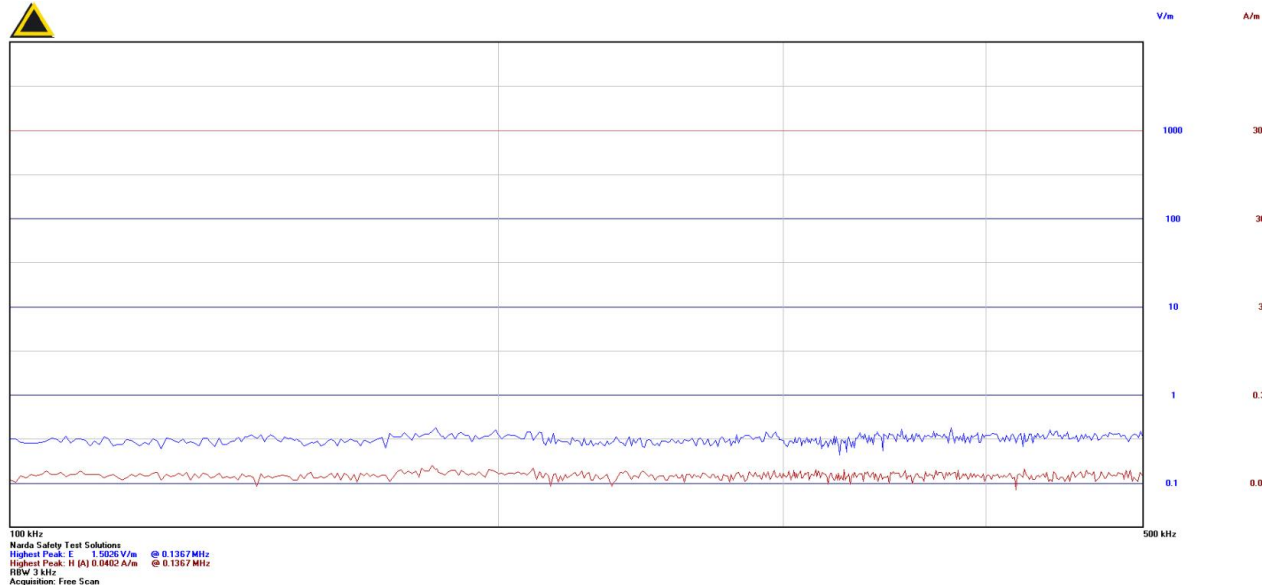
Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.6235	0.0425
<1%	Left	20	0.6115	0.0263
<1%	Right	20	0.1235	0.0253
<1%	Front	20	1.1236	0.0421
<1%	Back	20	0.3624	0.0253
Limit			614	1.63
test result			PASS	PASS

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.5252	0.0225
<50%	Left	20	0.6123	0.0253
<50%	Right	20	0.2124	0.0352
<50%	Front	20	1.1526	0.0253
<50%	Back	20	0.5025	0.0255
Limit			614	1.63
test result			PASS	PASS

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.7122	0.0331
<99%	Left	20	0.7263	0.0332
<99%	Right	20	0.3123	0.0624
<99%	Front	20	1.6116	0.0114
<99%	Back	20	0.3628	0.0413
Limit			614	1.63
test result			PASS	PASS

Mode b

136.73KHz



Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.6115	0.0211
<1%	Left	20	0.6263	0.0289
<1%	Right	20	0.3055	0.0136
<1%	Front	20	1.2025	0.0115
<1%	Back	20	0.3215	0.0117
Limit			614	1.63
test result			PASS	PASS

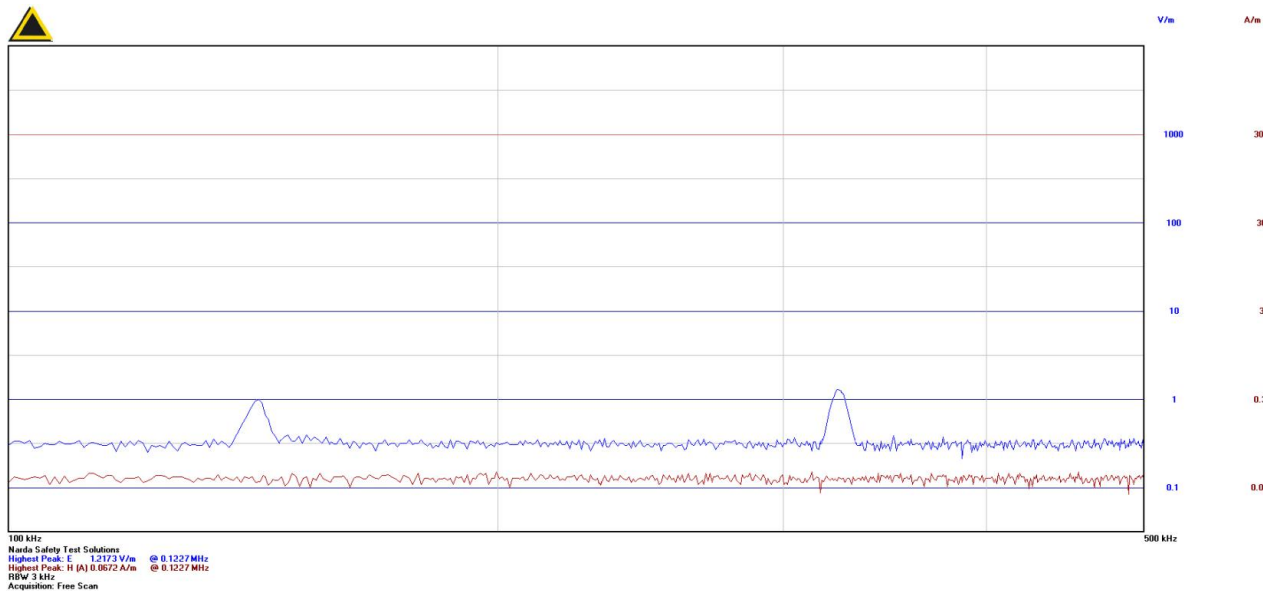
Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.6102	0.0125
<50%	Left	20	0.4123	0.0222
<50%	Right	20	0.2252	0.0402

<50%	Front	20	1.1152	0.0462
<50%	Back	20	0.2535	0.0356
Limit			614	1.63
test result			PASS	PASS

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.2631	0.0263
<99%	Left	20	0.6252	0.0216
<99%	Right	20	0.5313	0.0415
<99%	Front	20	1.5026	0.0460
<99%	Back	20	0.3562	0.0521
Limit			614	1.63
test result			PASS	PASS

Mode o

127.74Khz 136.73KHz 327.83KHz

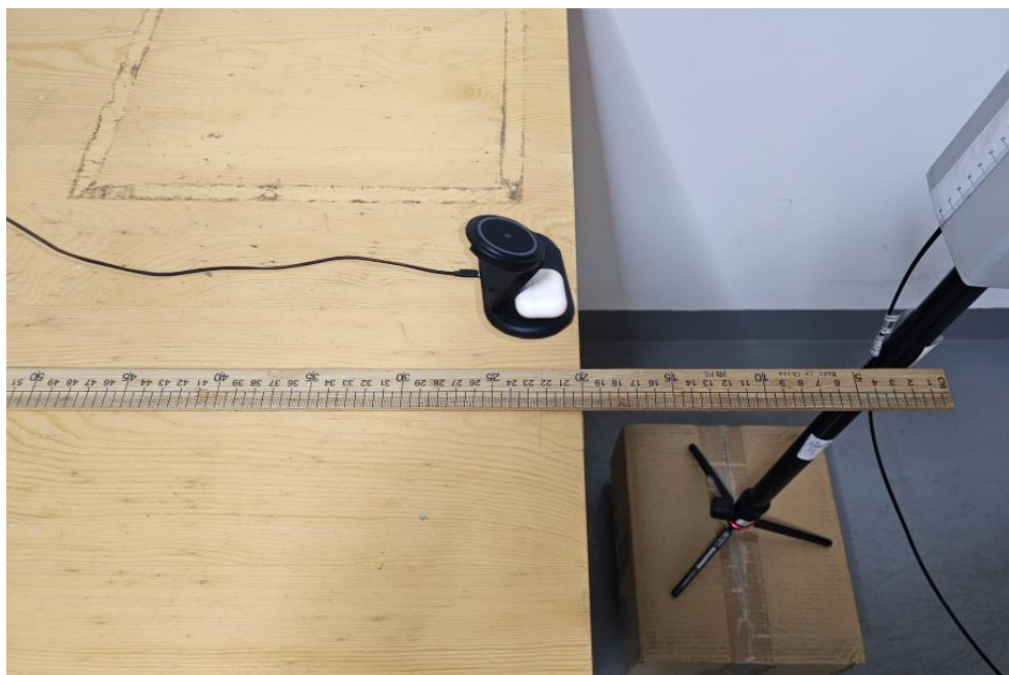


Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.5111	0.0223
<1%	Left	20	0.5262	0.0245
<1%	Right	20	0.3051	0.0132
<1%	Front	20	1.2022	0.0111
<1%	Back	20	0.2214	0.0115
Limit			614	1.63
test result			PASS	PASS

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.5142	0.0125
<50%	Left	20	0.3120	0.0125
<50%	Right	20	0.2252	0.0325
<50%	Front	20	1.1055	0.0435
<50%	Back	20	0.2525	0.0298
Limit			614	1.63
test result			PASS	PASS

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.2525	0.0262
<99%	Left	20	0.5952	0.0225
<99%	Right	20	0.5241	0.0433
<99%	Front	20	1.5022	0.0452
<99%	Back	20	0.3252	0.0495
Limit			614	1.63
test result			PASS	PASS

APPENDIX A: PHOTOGRAPHS OF TEST SETUP





*** END OF REROPT ***