



RF EXPOSURE EVALUATION

FCC ID:2AVV6-827370

Applicant:	Liquipel Protection LLC
Address:	19800 MacArthur Blvd. Suite 300, Irvine CA 92612
Manufacturer:	VERSOGO TECH (VIET NAM) TECHNOLOGY COMPANY LIMITED
Address:	TS7 Road, Tien Son Industrial Park, Tam Son Ward, Bac Ninh Province, Viet Nam
Product Name:	Powertek
Model No.:	827370
Serial No.:	N/A
Model Difference:	N/A
Applicable Standards:	KDB 680106 D01
Operation Frequency:	ANT 1&2: 115kHz ~ 205kHz ANT 3:300kHz ~ 350kHz
Modulation Type:	ASK
Antenna Type:	ANT 1&2&3: Loop Coil Antenna
Antenna Gain:	ANT 1&2&3: 0dBi
Power Supply:	USB-C Input::9V $\overline{\text{---}}$ 3A Earbuds Output: 5W Max Apple Watch Output: 2.5W Max Qi2 Smartphone Output: 5W, 7.5W, 10W, 15W Max
Transmitting Mode:	Keep the EUT in continuously wireless charging mode
Date of Test:	Jul. 30, 2026 to Aug. 10, 2026
Date of issue:	Aug. 10, 2026



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





EUT mode of operation before folding:

Test Modes:	Description:
Phone Coil+Earbuds Coil+ Watch Coil	Mode 1: AC/DC Adapter(9V/3A)+EUT + Phone +Earbuds+Watch (Battery Status:<1%)
	Mode 2: AC/DC Adapter(9V/3A)+EUT + Phone +Earbuds+Watch (Battery Status:<50%)
	Mode 3: AC/DC Adapter(9V/3A)+EUT + Phone +Earbuds+Watch (Battery Status:<100%)
Phone Coi	Mode 4 :AC/DC Adapter(9V/3A)+EUT + Phone (Battery Status:<1%)
	Mode 5: AC/DC Adapter(9V/3A)+EUT + Phone (Battery Status:<50%)
	Mode 6: AC/DC Adapter(9V/3A)+EUT + Phone (Battery Status:<100%)
Earbuds Coil	Mode 7:AC/DC Adapter(9V/3A)+EUT +Earbuds (Battery Status:<1%)
	Mode 8:AC/DC Adapter(9V/3A)+EUT+Earbuds (Battery Status:<50%)
	Mode 9:AC/DC Adapter(9V/3A)+EUT +Earbuds (Battery Status:<100%)
Watch Coil	Mode 10 :AC/DC Adapter(9V/3A)+EUT + Watch (Battery Status:<1%)
	Mode 11: AC/DC Adapter(9V/3A)+EUT + Watch (Battery Status:<50%)
	Mode 12: AC/DC Adapter(9V/3A)+EUT + Watch (Battery Status:<100%)
No Loads	AC/DC Adapter+EUT



1 Measuring Standard

1.1 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 KDB 680106 D01 Wireless Power Transfer v04.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainly
1	H-filed	$\pm 0.93\text{dB}$
2	E-filed	$\pm 0.51\text{dB}$

2.1 Requirements

§1.1310: 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 §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part2.1093 of this chapter.



2.2 Limits

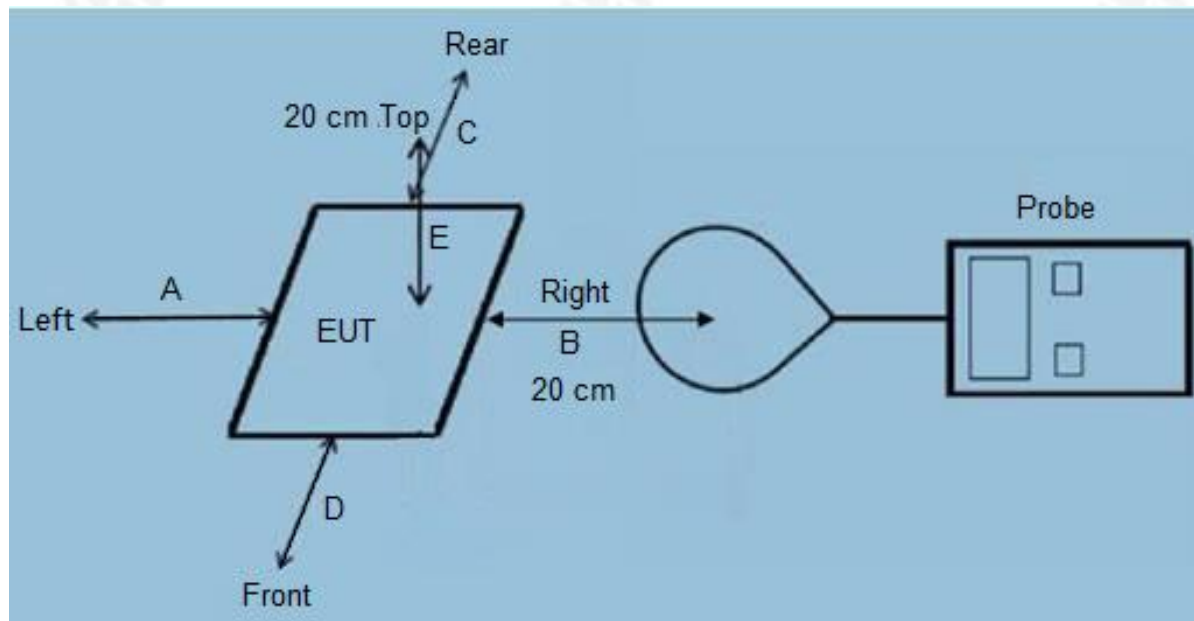
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

2.3 Test Setup





3 Test Procedure

- 1) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm and above from all sides and Top) which is between the edge of the charger and the geometric centre of probe.
- 3) The turn table was rotated 360 degree to search of highest strength.
- 4) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- 5) The EUT were measured according to the dictates of KDB 680106 D01 V04.

4.1 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	180ZX10220	Sep. 29, 2025	Sep. 28, 2026
Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	Sep. 29, 2025	Sep. 28, 2026

4.2 Test*auxiliary equipment.list*

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Powertek	powertek	827370	N/A	EUT
E-2	AC/DC Adapter	N/A	X569	N/A	Auxiliary
E-3	Phone	APPLE	iPhone 13	N/A	Auxiliary
E-4	Watch	BASEUS	E3	N/A	Auxiliary
E-5	Earbuds	ULTRA	WS85	N/A	Auxiliary



5 Test Result

(iPhone Coil 15W)

H-Filed Strength at 20 cm from the edges surrounding the EUT (uT):

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top
<1% Battery	0.111-0.205	0.39	0.35	0.37	0.36	0.38
50% Battery	0.111-0.205	0.29	0.26	0.28	0.30	0.29
>98% Battery	0.111-0.205	0.26	0.25	0.24	0.25	0.26

The Magnetic field strength (A/m) conversion results are on the next page.

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Limits 50% (A/m)	Limits (A/m)
<1% Battery	0.111-0.205	0.31	0.28	0.30	0.29	0.30	0.815	1.63
50% Battery	0.111-0.205	0.23	0.21	0.22	0.24	0.23	0.815	1.63
>98% Battery	0.111-0.205	0.21	0.20	0.19	0.20	0.21	0.815	1.63

Remark: A/m = uT/1.25

(Earphone Coil)

H-Filed Strength at 20 cm from the edges surrounding the EUT (uT):

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top
<1% Battery	0.111-0.205	0.34	0.32	0.36	0.34	0.36
50% Battery	0.111-0.205	0.28	0.24	0.25	0.28	0.27
>98% Battery	0.111-0.205	0.24	0.22	0.23	0.22	0.22

The Magnetic field strength (A/m) conversion results are on the next page.

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Limits 50% (A/m)	Limits (A/m)
<1% Battery	0.111-0.205	0.27	0.26	0.29	0.27	0.29	0.815	1.63
50% Battery	0.111-0.205	0.22	0.19	0.20	0.22	0.22	0.815	1.63
>98% Battery	0.111-0.205	0.19	0.18	0.18	0.18	0.18	0.815	1.63

Remark: A/m = uT/1.25



(Watch Coil)

H-Filed Strength at 20 cm from the edges surrounding the EUT (uT):

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top
<1% Battery	0.3-0.350	0.30	0.28	0.29	0.27	0.28
50% Battery	0.3-0.350	0.25	0.26	0.27	0.26	0.25
>98% Battery	0.3-0.350	0.26	0.24	0.23	0.22	0.21

The Magnetic field strength (A/m) conversion results are on the next page.

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Limits 50% (A/m)	Limits (A/m)
<1% Battery	0.3-0.350	0.24	0.22	0.23	0.22	0.22	0.24	1.63
50% Battery	0.3-0.350	0.20	0.21	0.22	0.21	0.20	0.20	1.63
>98% Battery	0.3-0.350	0.21	0.19	0.18	0.18	0.17	0.21	1.63

Remark: A/m = uT/1.25

(iPhone Coil 15W + Earphone Coil + Watch Coil)

H-Filed Strength at 20 cm from the edges surrounding the EUT (uT):

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top
<1% Battery	0.115-0.350	0.39	0.38	0.36	0.35	0.38
50% Battery	0.115-0.350	0.30	0.32	0.31	0.34	0.33
>98% Battery	0.115-0.350	0.28	0.27	0.25	0.28	0.26

The Magnetic field strength (A/m) conversion results are on the next page.

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Battery Level:	Frequency Range (MHz)	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Limits 50% (A/m)	Limits (A/m)
<1% Battery	0.115-0.350	0.31	0.30	0.29	0.28	0.30	0.815	1.63
50% Battery	0.115-0.350	0.24	0.26	0.25	0.27	0.26	0.815	1.63
>98% Battery	0.115-0.350	0.22	0.22	0.20	0.22	0.21	0.815	1.63

Remark: A/m = uT/1.25

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