

Human Exposure Report

FCC ID: RWO-RC210240

Project No. : 2507C348
Equipment : Wireless Charger
Brand Name :



Test Model : RAZER, RC21-0240
Model Name : RC21-0240, RC21-0240XXXX-XXXX (X can be 0-9 or A-Z)
Hardware Version : V8
Software Version : YGVJG
Applicant : Razer Inc.
Address : 9 Pasteur, Irvine, CA 92618, USA
Manufacturer : RAZER (ASIA-PACIFIC) PTE. LTD.
Address : Razer SEA HQ, 1 One-north Crescent, #02-01, Singapore 138538
Factory : RAZER TECHNOLOGY AND DEVELOPMENT (SHENZHEN) CO., LTD
Address : East Wing, 3rd Floor, Block 2, Phase 1 of Vision Shenzhen Business Park Keji South Road, Hi-Tech Industrial Park, Shenzhen 518057, China
Date of Receipt : Jul. 25, 2025
Date of Test : Jul. 25, 2025 ~ Oct. 20, 2025
Issued Date : Jan. 21, 2026
Test Sample : Sample No.: DG2025072566
Standard(s) : 47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 Wireless Power Transfer v04

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2507C348	R00	Original Report.	Dec. 09, 2025	Invalid
BTL-FCCP-2-2507C348	R01	This report removed the test photos. It is a revision of the report BTL-FCCP-2-2507C348 R00. This is a newly released report, replacing the BTL-FCCP-2-2507C348 R00 report.	Jan. 21, 2026	Valid

1. GENERAL INFORMATION

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

The BTL measurement uncertainty as below table:

Test Items	<i>U</i>
Magnetic Field strength (ESM-100, 5 Hz - 400 kHz)	6.220%
Electrical Field strength (EF 0391(NBM), 100 kHz - 3 GHz)	13.288%

2. APPLICABLE STANDARD

2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 1.1310:

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
1500-100000	/	/	5	6
(B) Limits for General Population / Uncontrolled Exposures				
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	/	/	1.0	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).

3. MEASUREMENT INSTRUMENTS LIST

Human Exposure					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	E-Field Probe	Narda Safety Test Solutions GmbH	EF 0391(NBM)	A-0253	Jul. 17, 2026
2	NARDA Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-520	B-0138	Jul. 17, 2026
3	3D H/E Fieldmeter	maschek Elektronik	ESM-100	971965	Nov. 17, 2026

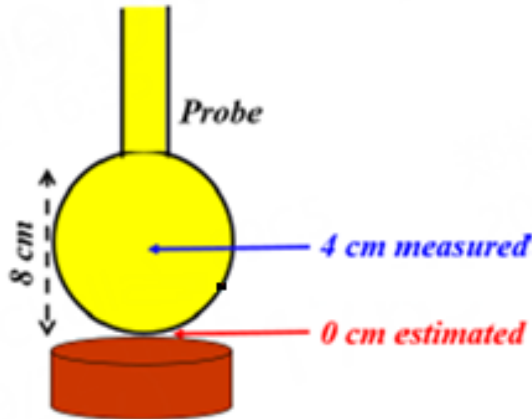
Remark:

(1) All calibration period of equipment list is one year.

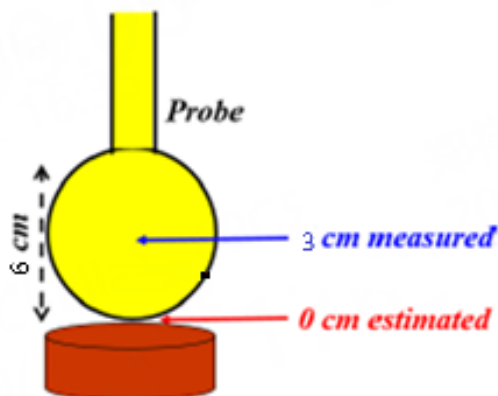
4. TEST PROCEDURE

(a) Test setup example diagram:

For E-Field measure:



For H-Field measure:



- (b) Test performed with all the radiating structures operating at maximum power at the same time.
- (c) Evaluate each edge surface of the host/client pair and identify the worst surface.
- (d) Measurements are taken along worst surface the device from 0cm~20cm in 2cm minimum increment.
- (e) Proceed to collect the 11 measurement points that will be used to build the predictive model by curve-fitting. For polynomial regression models, the order of the model shall be increased until signs of over fitting become evident.
- (f) Using polynomial regression techniques to predict estimated values at touch position (0 cm).
- (g) For validation purposes: If the value to show a 30% agreement between the mode and the probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

5. TEST RESULTS

The E-field strength results of the probe sensor with a center distance of 4cm ~ 28cm from the surface of the EUT coil are as follows:

Distance (cm)	E-Field (V/m)
4	4.64
6	4.29
8	4.10
10	3.78
12	3.43
14	3.10
16	2.84
18	2.71
20	2.48
22	2.29
24	2.11
26	1.85
28	1.63

The H-field strength results of the probe sensor with a center distance of 3cm ~ 27cm and 6~26cm from the surface of the EUT coil are as follows:

Distance (cm)	H-Field (A/m)
3	0.3740
5	0.3676
7	0.3456
9	0.3209
11	0.3045
13	0.2859
15	0.2687
17	0.2469
19	0.2258
21	0.2114
23	0.1981
25	0.1768
27	0.1549
6	0.3484
8	0.3264
10	0.3017
12	0.2853
14	0.2667
16	0.2495
18	0.2277
20	0.2066
22	0.1922
24	0.1789
26	0.1576

Use the polynomial regression techniques to estimate the results of 4cm through 8cm for E-Field:

E-Field Measure Value (V/m)	E-Field Estimated Value (V/m)	Agreement Ratio	Limits
4.64	5.140	10.78%	30%

Use the polynomial regression techniques to estimate the results of 3cm through 6cm for H-Field:

H-Field measure Value (A/m)	H-Field Estimated Value (A/m)	Agreement Ratio	Limits
0.374000	0.41400	10.70%	30%

As the model is sufficient, the 0cm E-Field value can be estimated through the results of 4cm, the 0cm H-Field value can be estimated through the results of 3cm.

E-Field Estimated Value (V/m)	Limits (V/m)	H-Field Estimated Value (A/m)	Limits (A/m)
4.74	614	0.394	1.63

Remark:

- (1) All surface had been evaluated, the worst surface is Right and recorded.
- (2) The EUT has the maximum average output power when the support unit is in low power and being charged by EUT.
- (3) Analyzing results:

E-Field:

Parameter	Linear Regression Model	Quadratic Regression Model	Cubic Regression Model	4th Order Regression Model	5th Order Regression Model
Multiple R	0.993	0.998	0.999	0.999	0.999
R ²	0.987	0.997	0.997	0.998	0.998
Adjusted R ²	0.986	0.996	0.996	0.997	0.997
Standard Error (S)*	0.103	0.056	0.054	0.049	0.050
Number of data points used	11	11	11	11	11
Estimated electric field strength at touch position (V/m)	5.049	5.403	5.207	4.745	5.457

* The units of the standard error are the units of the measured variable V/m.

As shown in the table above, the 4th order regression model produced the lowest standard error. From the model, the estimated E-field strength at touch position 4.745 V/m. Note that the 5th order regression model was not selected as evidence of over fit were shown by the increase of S.

H-Field:

Parameter	Linear Regression Model	Quadratic Regression Model	Cubic Regression Model	4th Order Regression Model
Multiple R	0.998	0.998	0.999	0.999
R ²	0.996	0.996	0.998	0.998
Adjusted R ²	0.996	0.995	0.997	0.996
Standard Error (S)*	0.004031	0.004215	0.003465	0.003675
Number of data points used	11	11	11	11
Estimated magnetic field strength at touch position (A/m)	0.407	0.410	0.394	0.387

* The units of the standard error are the units of the measured variable A/m.

As shown in the table above, the cubic regression model produced the lowest standard error. From the model, the estimated H-field strength at touch position 0.394 A/m. Note that the 4th order regression model was not selected as evidence of over fit were shown by the increase of S.

End of Test Report