

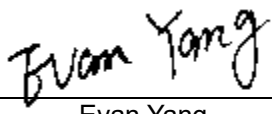


FCC RF EXPOSURE REPORT

FCC ID: RWO-RZ020493

Project No. : 2409C254
Equipment : GAMING MOUSE MAT
Brand Name :  RAZER,
Test Model : RZ02-0493
Series Model : RZ02-0493XXXX-XXXX(X can be 0-9 or A-Z)
Applicant : Razer Inc.
Address : 9 Pasteur, Suite 100, Irvine, CA92618, 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 ShenzhenBusiness
Park Keji South Road, Hi-Tech IndustrialPark, Shenzhen 518057,
China
Date of Receipt : Oct. 11, 2024
Date of Test : Oct. 11, 2024 ~ Dec. 27, 2024
Issued Date : Jan. 06, 2025
Report Version : R00
Test Sample : Engineering Sample No.: DG2024101117
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01
v06

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

Prepared by : 
Evan Yang

Approved by : 
Chay Cai

Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City,
Guangdong, People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2409C254	R00	Original Report.	Jan. 06, 2025	Valid

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2. GENERAL CONCLUSION

According to FCC KDB447498 D01 v06, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Appendix A - SAR Test Exclusion Thresholds for 100 MHz - 6 GHz
and ≤ 50 mm**

MHz	5	10	15	20	25	30	35	40	45	50	mm
150	39	77	116	155	194	232	271	310	349	387	SAR Test Exclusion Thresholds (mW)
300	27	55	82	110	137	164	192	219	246	274	
450	22	45	67	89	112	134	157	179	201	224	
835	16	33	49	66	82	98	115	131	148	164	
900	16	32	47	63	79	95	111	126	142	158	
1500	12	24	37	49	61	73	86	98	110	122	
1900	11	22	33	44	54	65	76	87	98	109	
2450	10	19	29	38	48	57	67	77	86	96	
3600	8	16	24	32	40	47	55	63	71	79	
5200	7	13	20	26	33	39	46	53	59	66	
5400	6	13	19	26	32	39	45	52	58	65	
5800	6	12	19	25	31	37	44	50	56	62	

3. TABLE FOR FILED ANTENNA

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	RAZER	RZ02-0493	PCB	N/A	4.48

Note: The antenna gain is provided by the manufacturer.

4. TEST RESULTS

Frequency (MHz)	Max Output power (dBm)	Max Output power (mW)	Distance (mm)	Result	Limit
2402	4.21	2.636	5	0.817	3

Note:

- (1) Output power including tune up tolerance.
- (2) No SAR evaluation required since transmitter power is below FCC threshold.

End of Test Report