

# FCC RF EXPOSURE REPORT

**FCC ID: RWO-RZ030282**

**Project No. : 1810C143**  
**Equipment : WIRELESS KEYBOARD**  
**Test Model : RZ03-0282**  
**Series Model : RZ03-0282XXXX-XXXX (X: Can be 0-9, A-Z)**  
**Applicant : Razer Inc.**  
**Address : 201 3rd Street, Suite 900, San Francisco, CA 94103  
USA**

**According: : FCC Guidelines for Human Exposure IEEE C95.1 &  
KDB447498 D01**

## **B T L I N C .**

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Certificate #5123.02

## 1. GENERAL SUMMARY

Equipment : WIRELESS KEYBOARD  
 Brand Name : RAZER  
 Test Model : RZ03-0282  
 Series Model : RZ03-0282XXXX-XXXX (X: Can be 0-9, A-Z)  
 Applicant : Razer Inc.  
 Manufacturer : Razer (Asia-Pacific) Pte.,Ltd.  
 Address : 514 Chai Chee Lane, #07-01-06, Singapore 469029  
 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 Test : Nov. 26, 2018 ~ Dec. 07, 2018  
 Test Sample : Engineering Sample No.: D181110847  
 Standards : KDB447498 D01 General RF Exposure Guidance v06

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1810C143) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	4.57

## 2. GENERAL CONCLUSION:

According to FCC KDB447498 D01, Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  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  $\leq 7.5$  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  $\leq 50$  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	

Maximum measured transmitter power:

Max Output Power (dBm)	Max Output Power (mW)	Limit (mW)
4.23	2.65	10

The Output power including tune up tolerance.

The maximum measured output peak power of this EUT is 2.65mW, less than 10mW at 5mm distance.

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**