# FCC RF EXPOSURE REPORT

## FCC ID:RWO-RZ040348

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|---|---|---|
| **Project No.** | : | 2007C005 |
| **Equipment** | : | Gaming Headset |
| **Brand Name** | : | RAZER |
| **Test Model** | : | RZ04-0348 |
| **Series Model** | : | RZ04-0348XXXX-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** | : | 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 Receipt** | : | Jul. 01, 2020 |
| **Date of Test** | : | Jul. 02, 2020 ~ Sep. 01, 2020 |
| **Issued Date** | : | Oct. 30, 2020 |
| **Report Version** | : | R01 |
| **Test Sample** | : | Sample No.:DG2020071786 |
| **Standard(s)** | : | FCC Guidelines for Human Exposure IEEE C95.1 & KDB447498 D01 |

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

Welly Zhou

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Certificate #5123.02

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## REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|---|---|---|
| R00 | Original Issue. | Sep. 29, 2020 |
| R01 | Revised report to address comments. | Oct. 30, 2020 |

## 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, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's Test Firm Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

## 2. GENERAL CONCULUSION

According to FCC KDB447498 D01, 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:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- f(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. | Manufacturer | Model Name | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | SHENZHEN HORN AUDIO Co., Ltd. | N/A | PCB | N/A | 3.61 |

## 4. TEST RESULTS

For 2.4G:

| Max. Average Output Power (dBm) | Max. Average Output Power (mW) | Limit (mW) |
|---|---|---|
| 5.00 | 3.16 | 10 |

For 5G:

| Max. Output Power (dBm) | Max. Output Power (mW) | Limit (mW) |
|---|---|---|
| 2.50 | 1.78 | 6 |

Note:
(1) Output power including tune up tolerance.
(2) The maximum measured output power of this EUT is 3.16mW, less than 6mW at 5mm distance.
Conclusion: No SAR evaluation required since transmitter power is below FCC threshold.

**End of Test Report**