



# FCC RF EXPOSURE REPORT

**FCC ID: RWO-RC810387** 

Project No. : 2105C075
Equipment : Smart Mask
Brand Name : RAZER
Test Model : RC81-0387

Series Model : RC81-0387XXXX-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 : May 13, 2021

Date of Test : May 14, 2021 ~ Jun. 01, 2021

**Issued Date** : Jul. 20, 2021

Report Version : R00

Test Sample : Engineering Sample No.: DG2021051369

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.

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## **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 20, 2021



#### 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

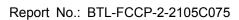
#### 2. GENERAL CONCULUSION

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)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR, and  $\leq$  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 <u>&lt;</u> 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	
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	SAR Test Exclusion
1900	11	22	33	44	54	65	76	87	98	109	Thresholds (mW)
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	P/N	Antenna Type	Connector	Gain (dBi)
1	INPAQ TECHNOLOGY CO., LTD.	ACA-5036-A2-CC-S	Chip	N/A	3

Note:

The antenna gain is provided by the manufacturer.

### 4. TEST RESULTS

Tune up tolerance (dBm)					
LE					
6.00					

Frequency (MHz)	Max Tune-up power (dBm)	Max Tune-up power (mW)	Result	Limit
2402	6.00	3.981	1.234	3.0

#### Note

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

**End of Test Report**