

1 Cover Page

RF Exposure Report

Application No.: GZCR2112021519AT
Applicant: Razer Inc.
Address of Applicant: 9 Pasteur, Suite 100, Irvine, California 92618, United States
Manufacturer: Razer (Asia-Pacific) Pte Ltd
Address of Manufacturer: Razer SEA HQ, 1 one-north Crescent, #02-01, Singapore 138538
Factory: Guangdong BYD Energy-saving Technology Co., Ltd.
Address of Factory: E7 building, BYD(huizhou) industrial zone Phase II, Xiangshui River, Daya Bay, Huizhou City, Guangdong Province, 516083, China

Equipment Under Test (EUT):

EUT Name: Lighting Module
Model No.: RZ43-042401, RZ43-042401XX-XXXX (X can be 0-9 or A-Z)
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: RAZER

Standard(s): FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01

Date of Receipt: 2021-12-03

Date of Test: 2021-12-03 to 2021-12-10

Date of Issue: 2023-08-16

Table with 2 columns: Test Result, Pass\*

\* In the configuration tested, the EUT complied with the standards specified above.

Ricky Liu (Handwritten signature)

Ricky Liu
Manager



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<i>Revision Record</i>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2023-08-16		Original

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Curry Wu/Project Engineer</b>	
			
		<hr/> <b>Ricky Liu/Reviewer</b>	



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### 3 General Information

#### 3.1 General Description of E.U.T.

Product Type:	<input type="checkbox"/> Portable device
	<input checked="" type="checkbox"/> Mobile device
	<input type="checkbox"/> Fixed device

#### 3.2 Details of E.U.T.

Power Supply: AC Adapter:  
 Model: A654-13040001  
 Input: 100-240V 50/60Hz 1.5A  
 Output: 13V 4.0A 52W

Cable(s): Adapter: DC cable 144cm unshielded non-core  
 Controller: DC cable 28cm unshielded non-core  
 Control line 148cm shielded with-core

##### For BLE:

Operation Frequency: 2402MHz to 2480MHz  
 Bluetooth Version: V4.2 LE  
 Modulation Type: GFSK  
 Data Rate: 1M/bit  
 Number of Channels: 40  
 Channel Spacing: 2MHz  
 Antenna Type: FPC Antenna  
 Antenna Gain: 2.21dBi

##### For 2.4G:

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40):  
 2422MHz to 2452MHz  
 Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM  
 (64QAM, 16QAM, QPSK, BPSK)  
 Number of Channels: 802.11b/g/n(HT20):11;802.11n(HT40):7  
 Channel Spacing: 5MHz  
 Antenna Type: FPC Antenna  
 Antenna Gain: 2.21dBi



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**Declaration of EUT Family Grouping**

Model No.: RZ43-042401, RZ43-042401XX-XXXX (X can be 0-9 or A-Z)

Only the model RZ43-042401 was tested since according to the declaration from the applicant, the electrical circuit design, PCB layout, component used and internal wiring and function were identical for the above models, with only difference on the Model No. Details as below.

RZ43-042401 consist of a LED driver, controller box and a 2 m LED strip (model no.: RC30-042400), can be interconnected to 10m using 1 m LED strip (model no.: RC30-042401). 1 m LED strip (model no.: RC30-042401) will be sold separately without LED driver and controller box.



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### 3.3 Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	



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### 3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

### 3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.



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## 4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

### 4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

### 4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

**Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation**

RF Source Frequency			Minimum Distance			Threshold ERP
$f_L$ MHz		$f_H$ MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	—	1.34	159 m	—	35.6 m	1,920 R <sup>2</sup>
1.34	—	30	35.6 m	—	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>
30	—	300	1.6 m	—	159 mm	3.83 R <sup>2</sup>
300	—	1,500	159 mm	—	31.8 mm	0.0128 R <sup>2</sup> f
1,500	—	100,000	31.8 mm	—	0.5 mm	19.2R <sup>2</sup>

Subscripts L and H are low and high;  $\lambda$  is wavelength.  
 From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are





based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than  $ERP_{20cm}$  in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

Limit calculation			
Frequency range	Frequency(MHz)	R( $\lambda/2\pi$ )(m)	Threshold ERP(W)
300~1500MHz	<b>915</b>	0.0522	0.032
1500~100000MHz	<b>2480</b>	0.0193	0.007

### 4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.



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The SAR-based exemption formula of §1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

**Table B.2—Example Power Thresholds (mW)**

Frequency (MHz)	Distance(mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

Limit calculation				
Frequency range(GHz)	Frequency(GHz)	X	Distance(cm)	Pth (mW)
0.3~1.5	<b>0.915</b>	1.474	<b>0.5</b>	<b>8.133</b>
1.5~6	<b>2.48</b>	1.905	<b>0.5</b>	<b>2.717</b>



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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

BLE:

Test Mode	Test Channel	EIRP [dBm]	EIRP (mW)
BLE	2480	6.14	4.11

2.4G WIFI :

Test Mode	Test Channel	EIRP [dBm]	EIRP (mW)
WIFI	2437	23.63	230.67

The Power Data is based on the RF Test report GZCR211202151901 & GZCR211202151902

### 5.2 RF Exposure Calculation

The Max. Power is 230.67mW. The best case gain of the antenna is 2.21dBi.

**Remark:** we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

	Evaluation method	Exempt Limit(mW)	Verdict
<input type="checkbox"/>	Blanket 1 mW Blanket Exemption	1mW	N/A
<input type="checkbox"/>	MPE-based Exemption(ERP)	7mW(ERP)	N/A
<input checked="" type="checkbox"/>	SAR-based Exemption( $P_{th}$ )	3060mW	Yes

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

**--End of the Report--**



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