

## **RF Exposure Evaluation Report**

**Equipment under Test** : Bluetooth Module  
**Model No.** : R8002  
**FCC ID** : V3DR8002  
**Applicant** : Riotec Co. Ltd.  
**Address** : 8F., No.196-2, Sec. 3, Datong Rd., Xizhi Dist.,  
New Taipei City 221, Taiwan  
**Date of Receipt** : February 18, 2022  
**Date of Report** : August 19, 2022

Prepared by

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**EMC Test Laboratory**



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## 1 Requirement for Compliance

According to FCC 2.1093 and 1.1310, exposure requirement is

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.

Formula:

$$S = \frac{P_T G}{4\pi d^2}$$

S=Power Density(mW/cm<sup>2</sup>)

P= power input to antenna(mW)

G=Antenna Gain

d= Distance(cm)

Frequency Range (MHz)	Maximum Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2402~2480	0.7	2	20	0.0004	1

## 2 Result

According to result, the SAR testing for this device is not required.