



## RF EXPOSURE EVALUATION

Report No. : AA0026441(6) Date: 09 Jun 2021

Application No. : LA012360

Applicant : Racefit International Company Ltd  
Unit 541, 5/F, Enterprise Place,  
No. 5 Science Park West Avenue,  
Hong Kong Science Park, Shatin, N.T.

Sample Description : One(1) item of submitted sample stated to be :  
Product Description : Sensor Bluetooth Module (BT 4.2)  
Model No. : RL0262223  
Radio Frequency : 2402 – 2480MHz  
Supply voltage : DC 3.7V Rechargeable battery  
No. of submitted sample : 4

FCC ID : 2ARFZCRW002B1

Date Received : 20 May 2021

Evaluation Period : 20 May 2021 – 28 May 2021

Evaluation Method : 447498 D01 General RF Exposure Guidance v06 - RF Exposure Procedure and  
Equipment Authorization Policies for Mobile and Portable Devices

Conclusion : The maximum simultaneous power of Bluetooth operation were satisfied RF  
exposure requirements.

*For and on behalf of*  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_

Wong Lap Pong / Andrew  
Deputy Technical Manager

Page 1 of 2

The conformity statement stated in Conclusion above is based on the decision rule agreed with applicant and listed in [www.cmateesting.org/qac/statement-of-conformity.pdf](http://www.cmateesting.org/qac/statement-of-conformity.pdf).  
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### Simultaneous power

Not applicable because only Bluetooth transmitter installed on the device

### RF Exposure Evaluation

According to KDB 447498 D01 clause 4.3.1 a), transmission from 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})}$$

### Calculation

-Frequency : 2.480GHz  
-Max conducted output power : -8.3dBm  
-Antenna gain : 1.5 dBi  
-Max. power of channel in EIRP , including tune-up tolerance : -6.8dbm (0.209mW)  
-Minimum test separation distances : <5mm

where

-EIRP = conducted output power (dBm) + antenna gain (dBi).

-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 two decimal place for comparison.

Substitute above reading for calculation.

$$[(\text{mW}) / (\text{mm})] \times \sqrt{\text{GHz}}$$

Result = 0.066

Requirements:  $\leq 3.00$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

### Conclusion

The corresponding SAR test exclusion threshold was satisfied 4.3.1a) requirements. Measurement or numerical simulation is not required.

\*\*\*\*\* End of Evaluation \*\*\*\*\*