

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTWG22030144-H**

**FCC ID**..... : **2ALZG-102**

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**Representative Laboratory Name**..: **Shenzhen Most Technology Service Co., Ltd.**

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**Applicant's name**.....: **Qingdao Magene Intelligence Technology Co., Ltd.**

Address .....: Room 302, Building 3, No.328A Chengkang Road, Xiazhuang  
Subdistrict, Chengyang District, Qingdao, Shandong, China.

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: C206 Smart GPS Bike Computer

Trade Mark .....: Magene

Manufacturer .....: **Qingdao Magene Intelligence Technology Co., Ltd.**

Model/Type reference.....: P0101004

Listed Models .....: N/A

Modulation Type .....: GFSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: 1.0

Software Version .....: 1.0

Rating .....: DC 3.7V, 600mAh By Battery  
DC 5V, 500mA By USB

## TEST REPORT

Equipment under Test : C206 Smart GPS Bike Computer

Model /Type : P0101004

Listed Models : N/A

Remark : N/A.

Applicant : **Qingdao Magene Intelligence Technology Co., Ltd.**

Address : Room 302, Building 3, No.328A Chengkang Road, Xiazhuang Subdistrict, Chengyang District, Qingdao, Shandong, China.

Manufacturer : **Qingdao Magene Intelligence Technology Co., Ltd.**

Address : Room 302, Building 3, No.328A Chengkang Road, Xiazhuang Subdistrict, Chengyang District, Qingdao, Shandong, China.

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.03.24	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 Standard Requirement**

According to KDB447498D01 General RF Exposure Guidance v06

##### **4.3.1. Standalone SAR test exclusion considerations**

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **2.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{(min. test separation distance, mm)}} \right] \cdot \left[ \sqrt{f(\text{GHz})} \right]$$
  
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

## 2.1.3 EUT RF Exposure

## Measurement Data

## BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-1.23	$-1.23 \pm 1$	-0.23
Middle(2441MHz)	-2.02	$-2.02 \pm 1$	-1.02
Highest(2480MHz)	-1.86	$-1.86 \pm 1$	-0.86

Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2441MHz)	-1.23	-0.23	0.95	0.30	3.0	Yes

.....THE END OF REPORT.....