

## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB24080335-H**

**FCC ID**..... : **2ALZG-340**

Compiled by

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Date of issue.....: Aug. 23,2024

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

Address.....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

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

Address.....: No.126 Shuyu Road,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**.....: Heart Rate Monitor

Trade Mark.....: Magene

Model/Type reference.....: P0105333

Listed Models .....: NA

Modulation Type.....: GFSK

Operation Frequency.....: From 2402MHz to 2480MHz  
2457MHz

Hardware Version.....: 1.0

Software Version.....: 1.0

Rating.....: DC 3.7V by Battery  
DC 5V by USB Port

Result.....: PASS

**TEST REPORT**

Equipment under Test : Heart Rate Monitor

Model /Type : P0105333

Listed Models : NA

Remark : NA

Applicant : Qingdao Magene Intelligence Technology Co., Ltd.

Address : No.126 Shuyu Road,Chengyang District, Qingdao,Shandong,  
China.

Manufacturer : Qingdao Magene Intelligence Technology Co., Ltd.

Address : No.126 Shuyu Road,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	2024.08.23	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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$   
 $\leq 3.0$  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)	1.332	$1.332 \pm 1$	2.332
Middle(2440MHz)	0.627	$0.627 \pm 1$	1.627
Highest(2480MHz)	0.921	$0.921 \pm 1$	1.921

## Worst case: GFSK

Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2402MHz)	1.332	2.332	1.71	0.53	3.0	Yes

## ANT+

GFSK							
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
			(dBm)	(mW)			
CH1(2457MHz)	2.332	$2.332 \pm 1$	3.332	2.15	0.67	3.0	Yes

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