

## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB24060027-H**

**FCC ID**..... : **2ALZG-331**

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Date of issue..... : **June.04,2024**

**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 1.1310**

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

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**Test item description**..... : Display

Trade Mark..... : Magene

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

Model/Type reference..... : P0203320

Listed Models ..... : N/A

Modulation Type..... : GFSK

Operation Frequency..... : GFSK: From 2402 - 2480MHz

Rating..... : DC 36V, 70mA or DC 48V, 50mA

Hardware version..... : 1.0

Software version ..... : 1.0

Result..... : **PASS**

**TEST REPORT**

Equipment under Test : Display

Model /Type : P0203320

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	2024.06.04	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **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**

BLE

Antenna Gain: -2.0dBi

GFSK				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.539	-0.539 ± 1	0.461	1.11
Middle(2440MHz)	1.273	1.273 ± 1	2.273	1.69
Highest(2480MHz)	0.456	0.456 ± 1	1.456	1.40

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest (2440MHz)	1.273	2.273	1.69	0.53	3.0	Yes

Note: 1) Refer to report **MTEB24060027-R** for EUT test Max Conducted average Output Power value.

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