

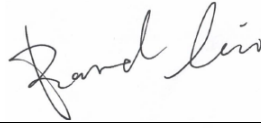
RF EXPOSURE REPORT

For

Shanghai Loostone Information Technology Co., Ltd.

Room 601, Building 9, No. 351, Sizhuan Road, Sijing Town, Songjiang District, Shanghai, China

FCC ID: 2A7ZR-M7AMZ7

Report Type: Original Report	Product Name: Puremic MagicMic M7
Report Number:	<u>RSHA240311001-00D</u>
Report Date:	<u>2024-04-25</u>
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA240311001-00D	R1V1	2024-04-25	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai Loostone Information Technology Co., Ltd.
Product Name:	Puremic MagicMic M7
Tested Model:	MS-M7
Power Supply:	DC 5V from USB port or DC 3.7V from battery
Maximum Output Power:	Classic BT: GFSK: 5.37 dBm $\pi/4$ -DQPSK: 5.27 dBm 8DPSK: 5.42 dBm BLE: 5.01 dBm
RF Function:	Classic BT; BLE (1Mbps)
Operating Band/Frequency:	Classic BT/BLE (1Mbps): 2402-2480 MHz
Channel Number:	Classic BT: 79 BLE: 40
Channel Separation:	Classic BT: 1 MHz BLE: 2 MHz
Modulation Type:	Classic BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK
★Maximum Antenna Gain:	Classic BT/BLE (1Mbps): 1.3 dBi

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RSHA240311001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2024-03-11.)

FCC§15.247 (i), §1.1310 &§2.1093 –RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Calculation results

For worst case:

Mode	Frequency Range (MHz)	Max Tune-up Conducted Power★		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
Classic BT	2402~2480	5.5	3.55	5.0	1.1	3.0	Yes
BLE	2402~2480	5.5	3.55	5.0	1.1	3.0	Yes

Note: Tune-up power is provided by applicant.

Result: No SAR test is required.

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s). This report must not be duplicated or used in part without prior written consent from the laboratory.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.

******* END OF REPORT *******