

RF EVALUATION REPORT

Report No.: SHE22070069-02CE

Date: 2022-08-31

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Applicant : ShangHai Ehong Technology Co.,Ltd.
Address of Applicant : Room 501, No.485 Xingmei Road,
Minhang district,Shanghai, China

Product Name : AIOT Module
Model No. : EH-MW24
Brand Name : Ehong
Sample No. : E22070069-01#12
E22070069-01#01

FCC ID : 2ACCRMW24

Standards : FCC Part 2.1093

Date of Receipt : 2022-07-26
Date of Test : 2022-08-05~ 2022-08-30
Date of Issue : 2022-08-31

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



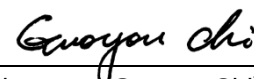
(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Applicant Company Name	ShangHai Ehong Technology Co.,Ltd.
Address	Room 501, No.485 Xingmei Road, Minhang district,Shanghai, China
Contact Person	Rik Tang
Telephone	02164769993
Email	rik.tang@ehonglink.com
Manufacturer Company Name	ShangHai Ehong Technology Co.,Ltd.
Address	Room 501, No.485 Xingmei Road, Minhang district,Shanghai, China
Factory Company Name	ShangHai Ehong Technology Co.,Ltd.
Address	Room 501, No.485 Xingmei Road, Minhang district,Shanghai, China

1.4 Details of EUT

Product Name	AIOT Module
Brand Name	Ehong
Test Model No.	EH-MW24
FCC ID	2ACCRMW24
Frequency Range	BLE: 2402MHz-2480MHz Zigbee: 2405MHz-2480MHz
Modulation Type	GFSK, O-QPSK
Antenna Type	PCB Antenna
Antenna Gain	0.54dBi
Hardware version	EH-MW24-V1.1

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Software version	EH-MW24-C000-V1.0
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2 Assessment methods

According to 447498 D01 General RF Exposure Guidance v06

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

Power and distance are rounded to the nearest mW and mm before calculation

3 Calculation

BLE mode:

$P_t = 1.13 \text{ dBm} = 1.30 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the SHE22070069-02AE FCC Part 15C BLE Test Report.

The result for RF exposure evaluation $= (1.30 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.402958 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Zigbee mode:

$P_t = 0.53 \text{ dBm} = 1.13 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the SHE22070069-02BE FCC Part 15C Zigbee Test Report.

The result for RF exposure evaluation $= (1.13 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.355905 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Remark: The device can not transmit with BLE and Zigbee simultaneously.

4 Conclusion

The SAR evaluation is not required.

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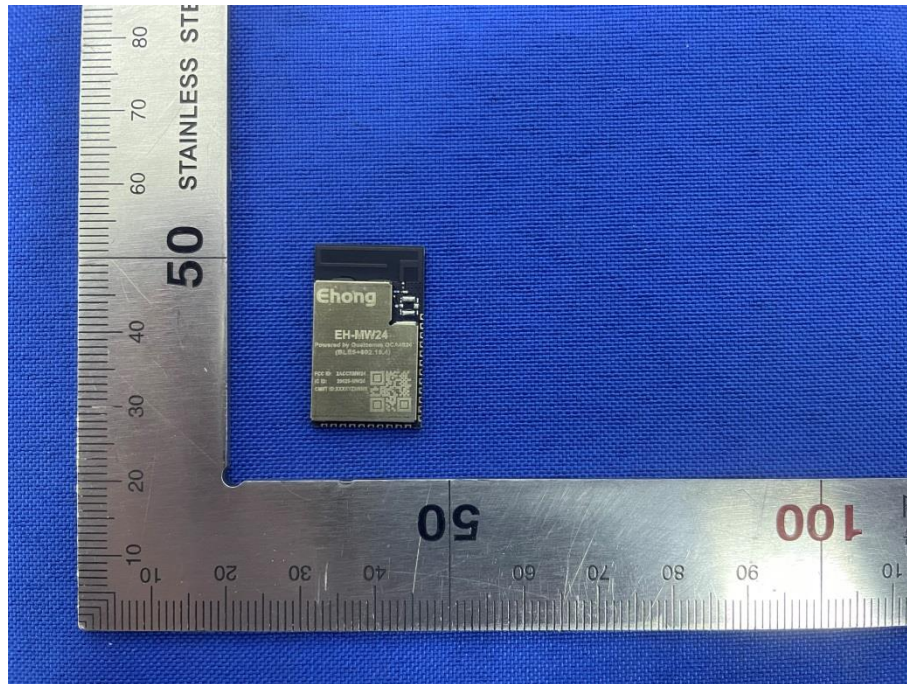
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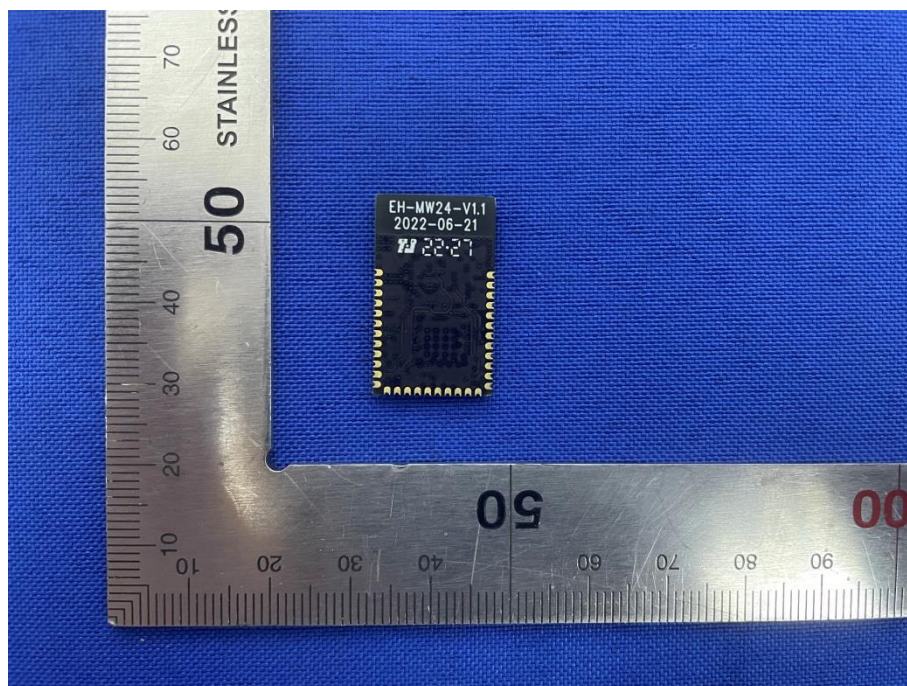
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5 Appendixes

5.1 Sample Photograph



Front of the sample



Rear of the sample

End of the report