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Applicant: Ehong Technology Co.,Ltd

Address of Applicant : Room 501, No.485 Xingmei Road,

Minhang Dis, Shanghai, China.

Product Name : BLE Module

Brand Name : Ehong

Model Name : EH-MC17, EH-MC17B

Sample Acquisition Method : Sent by Client **Sample No.** : E24040083-01#01

FCC ID : 2ACCREHMC17

Standard : FCC Part 2.1091

Date of Receipt : 2024-04-25

Date of Test : 2024-04-26~ 2024-04-29

Date of Issue : 2024-04-30

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:

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1 General Information

1.1 Testing Laboratory

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

1.4 Details of EUT

Product Name	BLE Module		
Brand Name	Ehong		
Test Model Name	EH-MC17		
Series Model Name	EH-MC17B		
Difference Description	All the same except for the antenna type: EH-MC17 Model is the chip ceramic Bluetooth antenna EH-MC17B Model is the external antenna		
FCC ID	2ACCREHMC17		
Mode of Operation	Bluetooth BLE Version 5.0		
Frequency Range	2402MHz ~ 2480MHz		
Modulation Type	BLE ⊠GFSK 1Mbps ⊠GFSK 2Mbps		

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Max RF Output Power-Conducted	4.22dBm
Antenna Type	EH-MC17 (chip ceramic Bluetooth antenna) EH-MC17B (External Antenna)
Antenna Gain	EH-MC17 (-0.081dBi) EH-MC17B (1.99dBi)
Hardware Version	V1.6
Software Version	V1.0

2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to FCC Part 1.1307, systems operating under the provisions of this section shall be operated in a manner the ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/f	4.89/f	*900/f ²	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
	(B) Limits for Gener	al Population/Uncontrolled	d Exposure						
0.3-1.34	614	1.63	*100	30					
1.34-30	824/f	2.19/f	*180/f ²	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

f = frequency in MHz * = Plane-wave equivalent power density

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2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm2)

P = Input Power of the Antenna (mW)

G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)

2.3 Test Result

EH-MC17 Model

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)
BLE	2402 ~ 2480	4.22	-0.081	2.59	0.000515	1.0

EH-MC17B Model

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)
BLE	2402 ~ 2480	4.22	1.99	4.18	0.000832	1.0

Note(s):

- 1. For 300 1,500MHz: Power Density limit is f/1500 mW/cm2
- 2. For 1,500 100,000MHz: Power Density limit is 1.0 mW/cm²

2.4 Conclusion

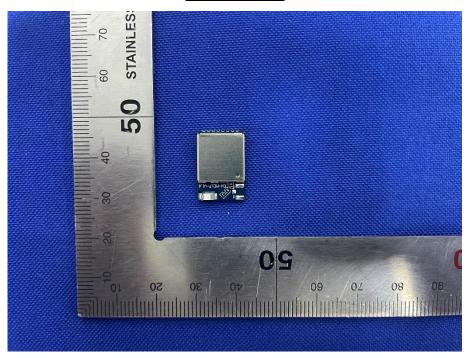
The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.

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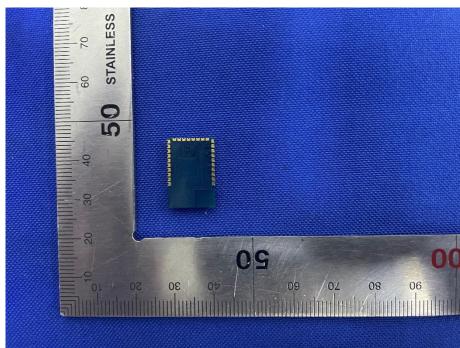
3 Appendixes

3.1 Sample Photograph

EH-MC17 Model

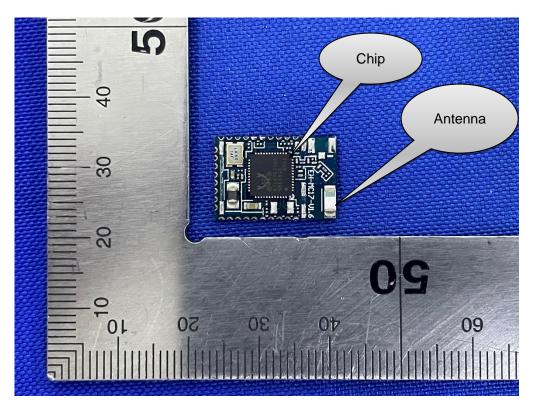


Front of the sample

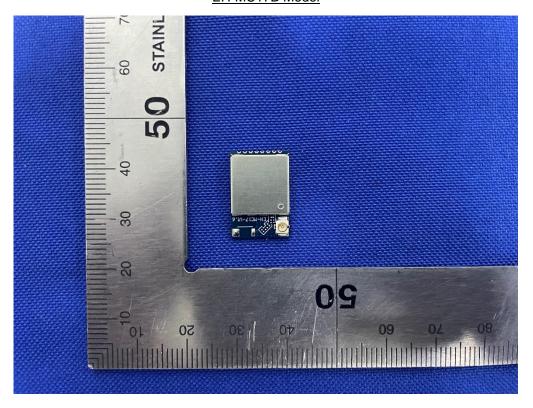


Rear of the sample

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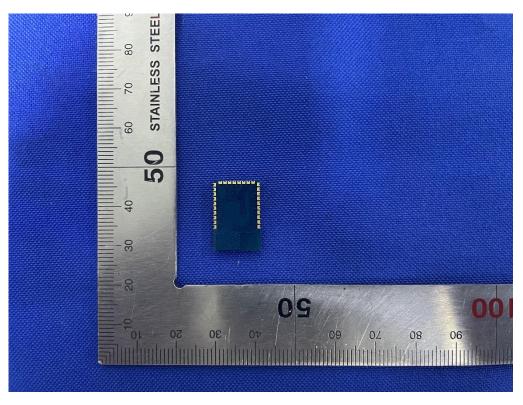


Internal of the sample EH-MC17B Model

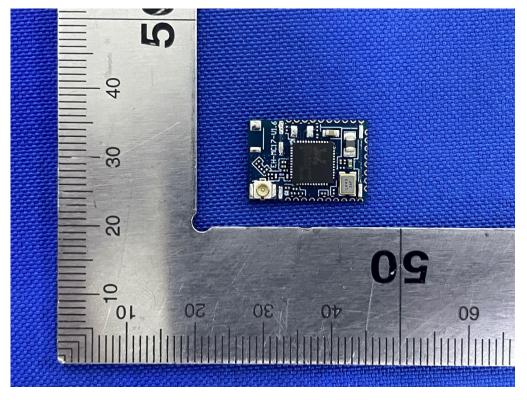


Front of the sample

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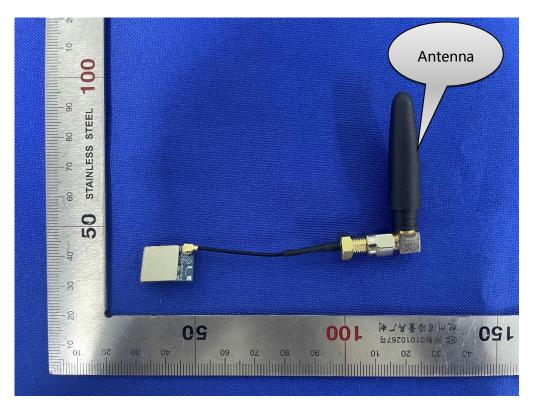


Rear of the sample



Internal of the sample

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Antenna Position
End of the report