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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 : ES301

Sample Acquisition Method : Sent by Client **Sample No.** : E25040006-01#03

FCC ID : 2ACCRES301

Standard : FCC Part 2.1091

Date of Receipt : 2025-05-19

Date of Test : 2025-05-26~ 2025-05-29

Date of Issue : 2025-06-03

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 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.			

1.3 Details of EUT

Product Name	BLE Module
Brand Name	Ehong
Test Model Name	ES301
FCC ID	2ACCRES301
Mode of Operation	Bluetooth LE Version 5.3
Frequency Range	2402MHz ~ 2480MHz
Modulation Type	BLE ⊠GFSK 1Mbps ⊠GFSK 2Mbps
Max RF Output Power-Conducted	1.71dBm
Antenna Type	Ceramic Antenna
Antenna Gain	0.21dBi
Hardware Version	V1.0
Software Version	V1.0

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2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to KDB 447498 D01 General RF Exposure Guidance v06, Per § 1.1310(d)(2) MPE limits in § 1.1310(e)(1)

- Table 1, 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 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(i) Limits for Occupational/Controlled Exposure								
0.3–3.0	614	1.63 4.89/f 0.163	*(100)	≤6 <6 <6 <6 <6				
	(ii) Limits for Ge	neral Population/Uncontrolle	d Exposure					
0.3–1.34	614	1.63	*(100) *(180/f²) 0.2 f/1500	<30 <30 <30 <30 <30				

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

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)

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2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Max Tune-up Power Range (dBm)	Max Tune-up Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm²)	Limit (mW/cm²)
BLE	2402 ~ 2480	1.71	1.50±2	3.50	0.21	2.350	0.000467	1.0

Note(s):

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

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

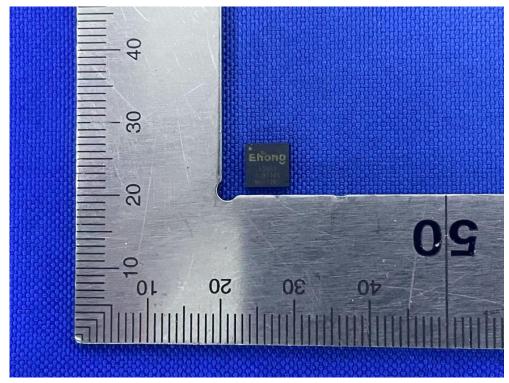
2.4 Conclusion

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

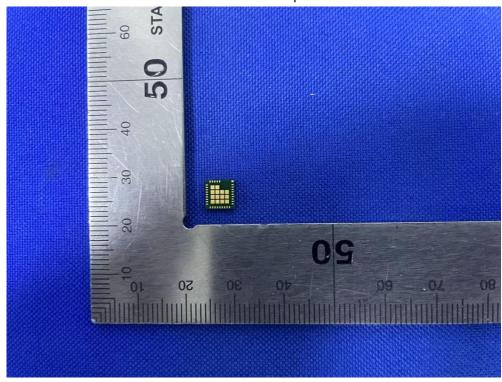
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3 Appendixes

3.1 Sample Photograph

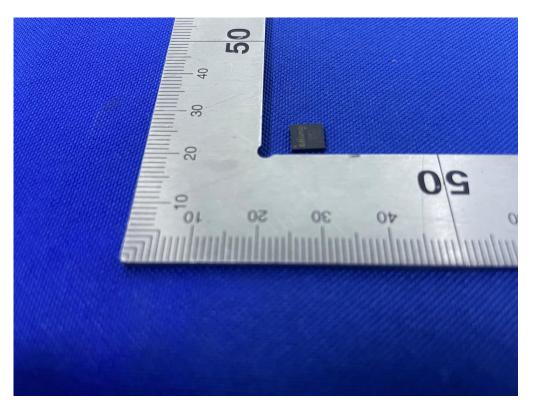


Front of the sample

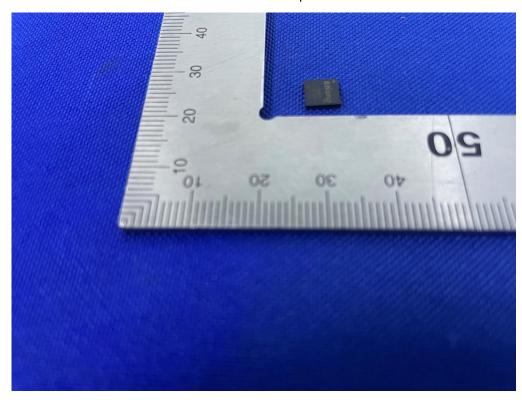


Rear of the sample

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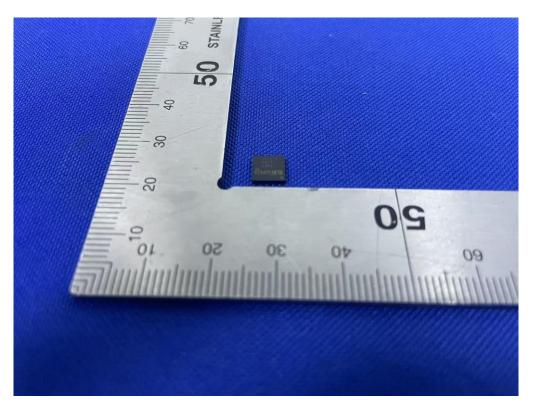


Left of the sample

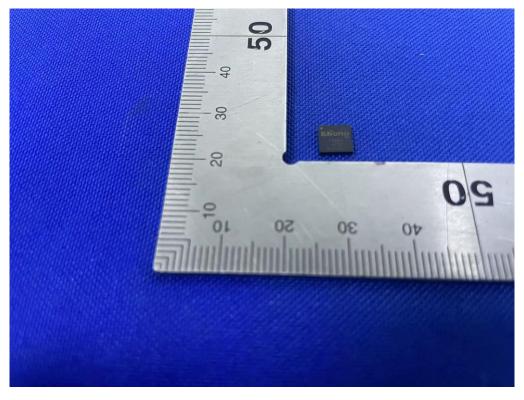


Right of the sample

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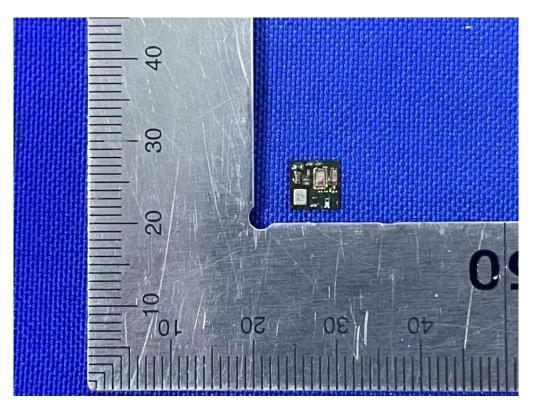


Top of the sample

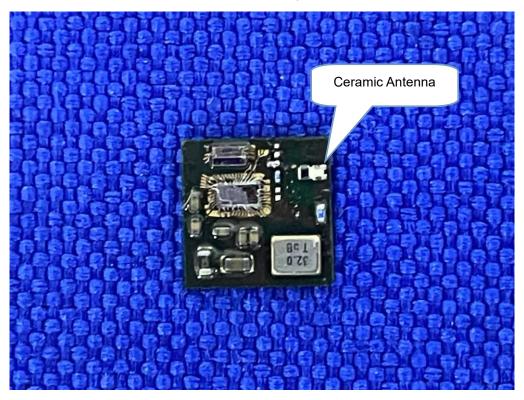


Bottom of the sample

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Internal of the sample



Antenna Position
End of the report