

TEST REPORT

Product Name : WIFI Motion Sensor

Brand Mark : Globe
Model No. : 35872

FCC ID : 2AQUQGB35872

Report Number : BLA-EMC-202205-A9403

Date of Sample Receipt : 2022/5/31

Date of Test : 2022/5/31 to 2022/6/14

Date of Issue : 2022/6/14

Test Standard : 47 CFR Part 1.1307, Part 1.1310

Test Result : Pass

Josu Blue Theory

Prepared for:

Globe Electric Company Inc. 150 Oneida, Montreal, Quebec, Canada, H9R 1A8

Prepared by:

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Compiled by:

Approved by:

Review by:

Date:





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REPORT REVISE RECORD

Version No.	Date	Description		
00	2022/6/14	Original		



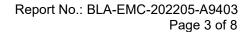




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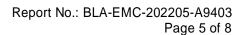


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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 1.1310 g	CFR 47 Part 1.1310	CFR 47 Part 1.1310	PASS







2 GENERAL INFORMATION

Applicant	Globe Electric Company Inc.		
Address	50 Oneida, Montreal, Quebec, Canada, H9R 1A8		
Manufacturer	langzhou Sky-Lighting Co.,Ltd		
Address	No.161, North Star-bridge Road, Linping, Hangzhou,China, 311100		
Factory	Hangzhou Sky-Lighting Co.,Ltd		
Address	No.161, North Star-bridge Road, Linping, Hangzhou, China, 311100		
Product Name	WIFI Motion Sensor		
Test Model No.	35872		

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	1.0.0	
Software Version	1.0.10	
Supply power	AC120V	

BLE

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Integral Antenna
Antenna Gain:	2.2dBi(Provided by the applicant)

WIFI

	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type:	Integral Antenna
Antenna Gain:	2.2dBi(Provided by the applicant)



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4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.



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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 LIMITS

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 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)	
(A) Lim	its for Occupational	/Controlled Exposure	es		
0.3–3.0	614	1.63	*(100)	6	
3.0–30	1842/f	4.89/f	*(900/f2)	6	
30–300	61.4	0.163	1.0	6	
300-1500			f/300	6	
1500–100,000			5	6	
(B) Limits	or General Populati	on/Uncontrolled Exp	osure		
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	
300-1500			f/1500	30	
1500-100,000			1.0	30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

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Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm Pd id the limit of MPE, 1 mW/cm2 . If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.2 TEST PROCEDURE

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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5.3 EUT RF EXPOSURE EVALUATION

Antenna Gain: 2.2dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.660 in linear

scale

Output Power Into Antenna & RF Exposure Evaluation Distance:

BLE

Channel	Frequenc y (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Highest	2480	3.156	2.068	0.0007	1.0	PASS

2.4G WIFI 802.11g

Channel	Frequenc y (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
Lowest	2412	15.093	32.307	0.0107	1.0	PASS

Note: Refer to report No. BLA-EMC-202205-A9401/02 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation Requirement

----END OF REPORT----

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