

RF EXPOSURE EVALUATION REPORT

FCC ID : 2BSOW-BWS3004BAB
Equipment : Smart Birdfeeder
Brand Name : Birdbuddy
Model Name : Birdbuddy 2
Applicant : Bird Buddy Inc.
169 Madison Avenue, Suite 15233, New York,
NY 10016, US
Manufacturer : Xavi Technologies (Thailand) Co., Ltd.
82 Mu 4, Takham Bangpakong,
Chachoengsao 24130, Thailand
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



SPORTON INTERNATIONAL INC. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FA582014-01	Rev. 01	Initial issue of report	Nov. 26, 2025

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	Smart Birdfeeder
Brand Name	Birdbuddy
Model Name	Birdbuddy 2
FCC ID	2BSOW-BWS3004BAB
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz
Mode	WLAN: 802.11a/b/g/n HT20 Bluetooth LE

Reviewed by: Jason Wang**Report Producer: Paula Chen****2. Maximum RF average output power among production units**

Maximum average power	
WLAN 2.4G	24.79
WLAN 5.2G	20.11
WLAN 5.8G	19.19
Bluetooth	6.69

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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 Exposures				
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
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled 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
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
2.4GHz WLAN	2.94	24.79	27.7	592.93	0.118	1.000	0.118
5.2GHz WLAN	3.55	20.11	23.7	232.27	0.046	1.000	0.046
5.8GHz WLAN	2.90	19.19	22.1	161.81	0.032	1.000	0.032
Bluetooth	2.94	6.69	9.6	9.18	0.002	1.000	0.002

4.2. Collocated Power Density Calculations

WLAN2.4GHz Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of WLAN2.4GHz+ Bluetooth
0.118	0.002	0.120

WLAN5GHz Power Density / Limit	Bluetooth Power Density / Limit	Σ (Power Density / Limit) of WLAN5GHz+ Bluetooth
0.046	0.002	0.048

Note:

1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WLAN + Bluetooth.
2. Considering the transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.