

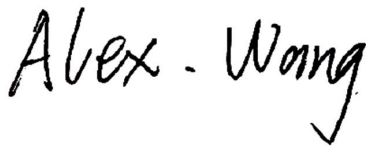
TEST REPORT

Application No.: BTEK251110005A02E02
Applicant: Backyard Nature Products, LLC.
Address of Applicant: 477 Vogt Lane, Chilton, WI 53014, USA
Manufacturer: SY Electronic Technical Co., Ltd.
Address of Manufacturer: 5th floor, 4th Bldg, Antongda Industrial Park, 1 Liuxian 3rd Rd, Baoan Dist., Shenzhen, China

Equipment Under Test (EUT):
EUT Name: Chirpful Smart Bird Camera
Test Model.: BCSBC
Adding Model(s): /
Trade Mark: /
FCC ID: 2BTXK-BCSBC
Standard(s) : 47 CFR Part 2 Subpart J Section 2.1091
447498 D01 General RF Exposure Guidance v06
Date of Receipt Sample(s): 2025-12-09
Date of Test: 2025-12-10 to 2025-12-21
Date of Issue: 2025-12-22

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



Alex Wang/ Approved & Authorized
EMC Laboratory Manager



Revision Record			
Version	Issue Date	Revisions	Remarks
V0	2025-12-22	Initial	Valid

Authorized for issue by:			
			
		Karl Liu / File Editor	
			
		June Li/Reviewer	

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information	4
3.1 Details of E.U.T.	4
3.2 Description of Support Units	4
3.3 Test Location	4
3.4 Deviation from Standards	4
3.5 Abnormalities from Standard Conditions	4
4 Test Requirement	5
4.1 Assessment Result	5



3 General Information

3.1 Details of E.U.T.

Power supply:	Input: 5V $\equiv$ 2A Battery: 3.7V $\equiv$ 3000mAh 11.1Wh
2.4G WIFI	
Support Standards:	802.11b, 802.11g, 802.11n-HT20
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20)
Type of Modulation:	802.11b: DSSS; 802.11g/n: OFDM
Quantity of Channels	11 for 802.11b/g/n(HT20)
Channel Separation:	5MHz
Type of Antenna:	FPC Antenna
Antenna Gain:	0.64dBi
5G WIFI	
Support Standards:	802.11a, 802.11n(HT20), 802.11ac-VHT20
Operation Frequency	U-NII-1:5180-5240MHz U-NII-3: 5745-5825MHz
Modulation Type:	OFDM
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz
Antenna Type:	FPC Antenna
Antenna Gain:	U-NII-1: 2.03dBi U-NII-3: 2.1dBi
Model(s) Difference Statement	☒ Single Model. ☐ Multi-Models:
Sample No.:	BTEK251110005A02E02-1-1/1

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

3.3 Test Location

All tests were performed at:
Shenzhen BANTEK Testing Co., Ltd.,
A5&A6, Building B1&B2, No.45 Gangtuo Road, Bogang Community, Shajing Street, Bao'an District,
Shenzhen, Guangdong, China 518103
Tel:0755-2334 4200 Fax: 0755-2334 4200
FCC Registration Number: 264293
Designation Number: CN1356
No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



4 Test Requirement

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

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 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

f = frequency in MHz

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

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 is 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.

4.1 Assessment Result

☒ Passed ☐ Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2412	2.4G-Wi-Fi	16.26	16.5	0.0103	1.0000	Pass
5180	5.2G-Wi-Fi	13.05	13.5	0.0071	1.0000	Pass
5825	5.8G-Wi-Fi	12.82	13.0	0.0064	1.0000	Pass

Note: 1. The exposure evaluation safety distance is 20cm.

2. Only show the worst case in the test report.

- End of the Report -

