

	TEST REPOR	T			
FCC ID:	2A525-AFF159				
Test Report No::	TCT250306E028				
Date of issue::	Mar. 20, 2025				
Testing laboratory:	SHENZHEN TONGCE TESTING	G LAB			
Testing location/ address:		2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103. People's Republic of China			
Applicant's name::	Jiangsu Zhong Heng Pet Articles	Joint-stock CO., LTD			
Address::	NO.1388 Century Avenue, Yand Jiangsu, China	u District, Yancheng City,			
Manufacturer's name:	Jiangsu Zhong Heng Pet Articles	s Joint-stock CO., LTD			
Address:	NO.1388 Century Avenue, Yandu District, Yancheng City, Jiangsu, China				
Standard(s)::	FCC CFR Title 47 Part 1.1307				
Product Name::	Automatic Pet Feeder				
Trade Mark::	N/A				
Model/Type reference:	AFF159, 16078W-2.4G-WX, WS	Q-D002			
Rating(s)::	Adapter Information: MODEL: KA0601A-0501200USU INPUT: AC 100-240V, 50/60Hz, OUTPUT: DC 5V, 1200mA				
Date of receipt of test item:	Mar. 06, 2025				
Date (s) of performance of test:	Mar. 06, 2025 ~ Mar. 20, 2025				
Tested by (+signature):	Ronaldo LUO	P-nalogenage			
Check by (+signature):	Beryl ZHAO				
Approved by (+signature):	Tomsin	Tomsies &			

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# **Table of Contents**

2.	General Product Information      1.1. EUT description      1.2. Model(s) list							
	Facilities au 3.1. Facilities							5 5
	3.2. Location							5
4.	Test Result	s and Me	easureme	ent Data .				6



## 1. General Product Information

## 1.1. EUT description

Product Name:	Automatic Pet Feeder
Model/Type reference:	AFF159
Sample Number:	TCT250306E020-0101
Operation Frequency:	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Modulation Type:	For BLE: GFSK For WIFI: 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PCB Antenna
Antenna Gain:	2.54dBi
Rating(s)::	Adapter Information: MODEL: KA0601A-0501200USU INPUT: AC 100-240V, 50/60Hz, 0.2A Max OUTPUT: DC 5V, 1200mA

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

## 1.2. Model(s) list

No.	Model No.	Tested with			
1	AFF159	$\boxtimes$			
Other models	16078W-2.4G-WX, WSQ-D002				
Note: AFF159 is tested model, other models are derivative models. The models are identical in circuit and PCB					

layout, only different on the model names. So the test data of AFF159 can represent the remaining models.



Page 3 of 6

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### 2. General Information

### 2.1. Test environment and mode

Item	Normal condition			
Temperature	+25°C			
Voltage	AC 120V			
Humidity	56%			
Atmospheric Pressure:	1008 mbar			
Test Mode:				
Transmitting Mode:	Keep the EUT in continuous transmitting by select channel			

### 2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name	
		1	1	1	

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



### 3. Facilities and Accreditations

#### 3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

**Designation Number: CN1205** 

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

### 3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339



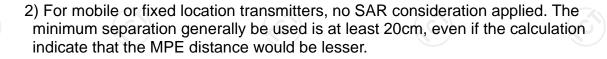


### 4. Test Results and Measurement Data

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1) For BLE: The maximum output power for antenna is 4.82dBm (3.03mW) at 2440MHz, 2.54dBi antenna gain(with 1.79 numeric antenna gain.)

For WIFI: The maximum output power for antenna is 12.41dBm (17.42mW) at 2437MHz, 2.54dBi antenna gain(with 1.79 numeric antenna gain.)



#### Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

Where

E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=Distance in meters

S=Power Density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199\*P\*G

Mode	Power (dBm)	Power (mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
BLE	4.82	3.03	1.79	0.001079	1.00	PASS
WIFI	12.41	17.42	1.79	0.006205	1.00	PASS



