

MPE Test Report				
Report No.:	CJPS-ESH-P24021016B-3			
FCC ID:	2AL5X-YP2022015			
Product:	Pet Smart Feeder			
Model:	YP2022015, SRQ0171			
Received Date:	Mar.01, 2024			
Test Date:	Mar.01 to Apr.02, 2024			
Issued Date:	Apr.03, 2024			
Applicant:	Hangzhou Tianyuan Pet Products Co., Ltd			
Address:	Address: No.10-1,Xingling Rd, Xingqiao Town, Linping, Yuhang, Hangzhou, 311100, China			
Manufacturer: Hangzhou Tianyuan Pet Products Co., Ltd				
Address:	No.10-1,Xingling Rd, Xingqiao Town, Linping, Yuhang, Hangzhou, 311100, China			
Issued By:	BUREAU VERITAS ADT (Shanghai) Corporation			
Lab Address:	No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)			
FCC Registration / Designation Number:	176467/ CN1213			
	ACCREDITED Test Lab Cert 2343.01			
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correctness of the report contents.



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Release Control Record

Issue No.	Description	Date Issued	
CJPS-ESH-P24021016B-3	Original release	Apr.03, 2024	



1 Certificate of Conformity							
Product:	Pet Smart Feeder						
Brand:	Petstar						
Model:	YP2022015, SRQ0171						
Applicant:	Hangzhou Tianyuan Pet Products Co., Ltd						
Test Date:	Mar.01 to Apr.02, 2024						
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06						
	IEEE C95.1-2019						
The above equipmen	t has been tested by BUREAU VERITAS ADT (Shanghai) Corporation , and found						
Test (EUT) configurat	tions represented herein are true and accurate accounts of the measurements of the						
sample's EMC charac	steristics under the conditions specified in this report.						
	Jan. Thou						
Prepared by :	, Date: Apr.03, 2024						
	Project Engineer						
	Holect Engineer #						
	TO MAKE WA						
Approved by :	, Date: Apr.03, 2024						
(a)	Sean YU						
	RF Supervisor						



2 General Information

2.1 General Description of EUT

Wi-Fi:

Product	Pet Smart Feeder		
Brand	Petstar		
Test Model	YP2022015, SRQ0171		
Model Difference			
Power Rating	DC 5V 1A, Powered by adaptor		
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Modulation Technology	DSSS, OFDM		
Operating Frequency	2412MHz-2462MHz		
Number of Channel	802.11b, 802.11g and 802.11n (HT20):11		
Output Power	14.63 dBm		
Antenna Type	PCB Antenna		
Antenna Connector			
Antenna Gain	2.45 dBi		

Note:

1. For more details, please refer to the User's manual of the EUT.



3LE:			
Product	Pet Smart Feeder		
Brand	Petstar		
Test Model	YP2022015, SRQ0171		
Model Difference			
Power Rating	DC 5V 1A, Powered by adaptor		
Modulation Type	GFSK		
Modulation Technology	Bluetooth Low Energy 4.2		
Operating Frequency	2402MHz ~ 2480MHz		
Number of Channel	40		
Output Power	6.19 dBm		
Antenna Type	PCB Antenna		
Antenna Connector			
Antenna Gain	2.54 dBi		

Note:

1. For more details, please refer to the User's manual of the EUT.

2.2 Description of Support Unit

DESCRIPTION MANUFACTURER		MODEL NO.	SERIAL NO.	
Adaptor	Guangdong Keerda Electronics Co., Ltd	DZ007AHL050100U	NA	
Adaptor	Shenzhen Flypower Technology Co., Ltd.	PS06H050K1000UD	NA	



3 RF Exposure

3.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)		
Limits For General Population / Uncontrolled Exposure						
300-1,500	-	-	F/1500	30		
1,500-100,000	-	-	1.0	30		

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

 $S = PG / (4\pi R^2)$

Where $S = power density in mW/cm^2$

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)		
WLAN 2.4GHz							
2412-2462	14.63	2.45	20	0.0102	1		
BLE 4.2							
2402-2480	6.19	2.54	20	0.0015	1		
WLAN 2.4GHz + BLE 4.2							
2412-2462 2402-2480	14.63 6.19	2.45 2.54	20	0.0117	1		

Conclusion:

The calculation result of MPE is less than the limit.

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