



MPE Report

Report No.:STS2604330H01

Issued for

Shenzhen Ipetmon Creative Technology Co., Ltd.

101, No. 93 Boguang Second Road, Shangcun Community,
Gongming Street, Guangming District, Shenzhen, China

Product Name: Automatic Pet Feeder

Brand Name: Ipetmon

Model Name: PTM-10B1

Series Model(s): PN-CF02

FCC ID: 2A4A7-PN-CF02

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Shenzhen Ipetmon Creative Technology Co., Ltd.
Address: 101, No. 93 Boguang Second Road, Shangcun Community,
Gongming Street, Guangming District, Shenzhen, China
Manufacturer's Name: Shenzhen Ipetmon Creative Technology Co., Ltd.
Address: 101, No. 93 Boguang Second Road, Shangcun Community,
Gongming Street, Guangming District, Shenzhen, China

Product Description

Product Name: Automatic Pet Feeder
Brand Name: Ipetmon
Model Name: PTM-10B1
Series Model(s): PN-CF02

Test Standards: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

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Date of Test

Date of receipt of test item: 1 Apr. 2026
Date (s) of performance of tests: 1 Apr. 2026 ~ 10 Apr. 2026
Date of Issue: 10 Apr. 2026
Test Result: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	10 Apr. 2026	STS2604330H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Automatic Pet Feeder	
Brand Name	Ipetmon	
Model Name	PTM-10B1	
Series Model(s)	PN-CF02	
Model Difference	All the model are the same circuit and RF module, except model names.	
Product Description	The EUT is a Automatic Pet Feeder	
	Operation Frequency:	2402~2480 MHz 802.11b/g/n 20: 2412~2462 MHz 802.11n40:2422~2452MHz
	Modulation Type:	GFSK 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11b/g Support SISO 802.11n Support SISO IEEE 802.11a/ n(HT20): 5.180GHz-5.240GHz IEEE 802.11n(HT40): 5.190GHz-5.230GHz IEEE 802.11a/ n(HT20): 5.745GHz-5.825GHz IEEE 802.11n(HT40):5.755GHz-5.795GHz 802.11a(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11a Support SISO 802.11n Support SISO
	Antenna gain:	Bluetooth/WLAN 2.4 GHz: 1.95 dBi WLAN 5 GHz: 2.64 dBi
	Antenna Designation:	Internal Antenna
Power Rating	DC 5V from adapter	
Adapter	Model:YMK-10W050100 Input:100-240V AC 50/60Hz 0.3A Max Output:5V DC 1000mA	
Battery	N/A	
Hardware Version	N/A	
Software Version	N/A	



1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
BLE	Peak	2±1dBm
2.4G WIFI	Peak	13±1dBm
5G WIFI	AV	13±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BLE	2.402	20	3	1.95	4.95	3.13	0.0006	1	0.0006	Pass
2.4G WIFI	2.437	20	14	1.95	15.95	39.36	0.0078	1	0.0078	Pass
5G WIFI	5.24	20	14	2.64	16.64	46.13	0.0092	1	0.0092	Pass

Multiple transmission:

BLE+5G WIFI=0.0006+0.0092=0.0098<1

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. The Bluetooth and WLAN can't simultaneous transmission at the same time.

3. ERP = EIRP - 2.15

*****END OF THE REPORT*****