



FCC Test Report

Report No: FCS202502378H01

Issued for

Applicant:	Shenzhen Xianluo Technology Co., Ltd.
Address:	3BA-132, Building 2, South China City, Pinghu Street, Shenzhen, China
Product Name:	Automatic Cat Litter Box
Brand Name:	PETCPU
Model Name:	SCB-01
Series Model:	N/A
FCC ID:	2BN3A-SCB-01
Test Standard:	FCC 47CFR §2.1091
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com	



TEST RESULT CERTIFICATION

Applicant's Name.....: Shenzhen Xianluo Technology Co., Ltd.
Address: 3BA-132, Building 2, South China City, Pinghu Street, Shenzhen, China
Manufacture's Name.....: Shenzhen Xianluo Technology Co., Ltd.
Address: 3BA-132, Building 2, South China City, Pinghu Street, Shenzhen, China

Product Description

Product Name.....: Automatic Cat Litter Box
Brand Name: PETCPU
Model Name: SCB-01
Series Model.....: N/A
Test Standards.....: FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

This device described above has been tested by Flux Compliance Service Laboratory, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests : Feb.26, 2025 ~ Mar.03, 2025

Date of Issue.....: Mar.03, 2025

Test Result.....: Pass

Tested by

Scott Shen

(Scott Shen)

Reviewed by

Duke Qian

(Duke Qian)

Approved by

Jack Wang

(Jack Wang)



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Revision History

Rev.	Issue Date	Contents
00	Mar.03, 2025	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Automatic Cat Litter Box											
Brand	PETCPU											
Model Number	SCB-01											
Series Model(s)	N/A											
Model Difference	N/A											
Product Description	The EUT is Automatic Cat Litter Box											
	Operation Frequency:	802.11b/g/n20: 2412~2462 MHz 802.11n40: 2422~2452 MHz										
	Modulation Type:	2.4G WiFi: 802.11b(DSSS): CCK,DQPSK,DBPSK 802.11g(OFDM): BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK,QPSK,16-QAM,64-QAM										
	Antenna gain:	2.54 dBi										
	Antenna Designation:	PCB antenna										
Power Supply	<table border="1"><tr><td>\</td><td>Power adapter 1 (Model: KDP-A3120150U)</td><td>Power adapter 2 (Model: GRT-A30-120150UW)</td></tr><tr><td>Input</td><td>100-240V-50/60Hz 0.8A</td><td>100-120V~1.0A Max 50/60Hz</td></tr><tr><td>Output</td><td>12.0V=1500mA</td><td>12.0V=1.5A</td></tr></table>			\	Power adapter 1 (Model: KDP-A3120150U)	Power adapter 2 (Model: GRT-A30-120150UW)	Input	100-240V-50/60Hz 0.8A	100-120V~1.0A Max 50/60Hz	Output	12.0V=1500mA	12.0V=1.5A
\	Power adapter 1 (Model: KDP-A3120150U)	Power adapter 2 (Model: GRT-A30-120150UW)										
Input	100-240V-50/60Hz 0.8A	100-120V~1.0A Max 50/60Hz										
Output	12.0V=1500mA	12.0V=1.5A										
Hardware version number	V1.0											
Software version number	V1.0											

1.2 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097	

2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure requirement

KDB447498 D01v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

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
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
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/cm^2

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

$\pi = 3.1416$

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.

Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.

2.3 TEST RESULT

Turn up

2.4G WiFi_Conducted		Mode	Frequency(MHz)		
Target (dBm)	Ant 1_802.11b	2412	2437	2462	2462
		15	15	15	15
	Ant 1_802.11g	2412	2437	2462	2462
		18	19	19	19
	Ant 1_802.11n(HT20)	2412	2437	2462	2462
		18	19	19	19
	Ant 1_802.11n(HT40)	2422	2437	2452	2452
		17	17	18	18
Tolerance ± (dB)					1

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
2.4G WLAN	20	100.00	2.54	1.795	0.03571	1

Results: PASS, NO SAR required.

※※※※※END OF THE REPORT※※※※