



MPE Report

Report No.:STS2512121H01

Issued for

Shenzhenbenfendianzishangwuyouxiangongsi

Longhua District, Minxin Community Bishui Longting Building
6 Unit, 7B Shenzhen GuangDong Sheng, 518000 China

Product Name: Ease S1 Open-Top Self-Cleaning Litter
Box with WiFi

Brand Name:

oneisall

Model Name: CB01

Series Model(s): N/A

FCC ID: 2BBAW-CB01

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: Shenzhenbenfendianzishangwuyouxiangongsi
Address: Longhua District, Minxin Community Bishui Longting Building 6
Unit, 7B Shenzhen GuangDong Sheng, 518000 China
Manufacturer's Name: Shenzhenbenfendianzishangwuyouxiangongsi
Address: Longhua District, Minxin Community Bishui Longting Building 6
Unit, 7B Shenzhen GuangDong Sheng, 518000 China

Product Description

Product Name: Ease S1 Open-Top Self-Cleaning Litter Box with WiFi

Brand Name:

Model Name: CB01

Series Model(s): N/A

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: 05 Dec. 2025

Date (s) of performance of tests: 05 Dec. 2025 to 20 Dec. 2025

Date of Issue: 20 Apr. 2026

Test Result: **Pass**

Testing Engineer :

(Aaron Bu)

Technical Manager :

(Skylar Li)

Authorized Signatory :

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	20 Apr. 2026	STS2512121H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Ease S1 Open-Top Self-Cleaning Litter Box with WiFi	
Brand Name		
Model Name	CB01	
Series Model(s)	N/A	
Model Difference	N/A	
Product Description	The EUT is Ease S1 Open-Top Self-Cleaning Litter Box with WiFi	
	Operation Frequency:	Bluetooth: 2402~2480 MHz 2.4G WLAN: 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz 5.2G WLAN: 802.11a/n (20MHz): 5180~5240MHz 802.11n(40MHz):5190~5230MHz 5.8G WLAN: 802.11a/n(20MHz): 5745~5825MHz 802.11n(40MHz):5755~5795MHz
	Modulation Type:	2.4G WLAN: 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:	2.4G WLAN:1.95dBi 5G WLAN:2.64dBi
	Antenna Designation:	Internal Antenna
Power Rating	DC 12V From Adapter	
Adapter	Manufacture:Dong Guan Shi Jie HuaXu Electronics Factory Model No.:HX24K-1202000-AU Input: AC 100-240V 50/60Hz 0.8A Max Output:12V---2.0A	
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
2.4G WIFI	PK	13±1dBm
5G WIFI	PK	10±1dBm

Protocol	Fre. (GHz)	Separati on 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
2.4G WIFI	2.462	20	14	1.95	15.95	39.36	0.0123	1	0.0123	Pass
5G WIFI	5.745	20	11	2.64	13.64	23.12	0.0084	1	0.0084	Pass

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

2. ERP = EIRP - 2.15

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