

No.:

FCCSZ2024-0039-H

TEST REPORT

FCC ID : 2BAW2-NDSLB001

NAME OF SAMPLE : Smart Cat Toilet [C1]

APPLICANT : Pet Marvel Limited

CLASSIFICATION OF TEST : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

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		Name: Pet Marvel Limited						
Applicant		Address: 350 Northern Blvd Ste 324-1331 Albany, NY 12204, New						
		York, United States						
		Name: Shanghai Niaoyu Huaxiang Pet Co., Ltd.						
Manufacturer	Address: Room 901, Block H, Xuhui Vanke Center, Xuhui District, Shanghai, China							
		Name: Smart Ca	t To	ilet [C1]				
		Model/Type: ND:	SLB	001				
Equipment Under	Test	Brand: PET MAF	RVEI	_				
		Serial NO.: N/A						
		Sample NO.: 3-1	Sample NO.: 3-1					
Date of Receipt.	.04		Date of Testing		2024-06-05 ~ 2024-07-26			
Test S _l	on	•	Test Result					
FCC Part 2	(Section 2	· ·						
KDB 4	47498 D0	4	PASS			PASS		
IEE	E C95.1							
		The equipr	nen	t under test wa	as fou	und to comply with the		
		requirements of the standards applied.						
Evaluation of Test Resu	lt							
		Seal of CVC				Seal of CVC		
						Issue Date: 2024-07-29		
Compiled by:		Reviewed by:			Approved by:			
Zhu Yulin		Mo Xianbiao		enbiao	AS			
Zhu Yulin Name Signature		Mo Xianbiao		Dong Sanbi				
Other Aspects: NONE.		Name		Signature		Name Signature		
Abbreviations:OK, Pass= passed	l Fa	ail = failed N/A=	not a	oplicable	EUT= e	equipment, sample(s) under tested		

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FCCSZ2024-0039-H	Original release	2024-07-29	

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1. GENERAL INFORMATION

PRODUCT	Smart Cat Toi	Smart Cat Toilet [C1]			
BRAND	PET MARVEL				
MODEL	NDSLB001	NDSLB001			
ADDITIONAL MODEL	N/A				
POWER SUPPLY	DC 12V from Adapter				
MODULATION TYPE	WLAN 2.4G	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
	BT	GFSK, π/4 DQPSK, 8DPSK			
	WLAN 2.4G	2412MHz ~ 2462MHz for 11b/g/n(HT20)			
OPERATING FREQUENCY	BT	2402MHz ~ 2480MHz			
ANTENNA TYPE (Remark 4/5)	PCB Antenna, with 2dBi gain				
HARDWARE VERSION:	V1.0.0				
SOFTWARE VERSION:	MCU-057				
I/O PORTS	Refer to user's manual				
CABLE SUPPLIED	N/A				

Remark:

- For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. EUT photo refer to the report (Report NO.: FCCSZ2024-0039-EUT).
- 4. Please refer to the antenna report.
- 5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

2. DESCRIPTION OF ACCESSORIES

Adapter					
Brand	KEERDA				
Model No.:	DZ024FHL120200H				
Input:	100-240V ~ 50/60Hz 0.8A				
Output:	12.0V == 2.0A 24.0W				
SN	1				
DC Cable:	Unshielded, 1.5m				

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3. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

$$P_{\rm th} \; ({\rm mW}) = \begin{cases} ERP_{\rm 20\; cm} (d/20\; {\rm cm})^x & d \leq 20\; {\rm cm} \\ \\ ERP_{\rm 20\; cm} & 20\; {\rm cm} < d \leq 40\; {\rm cm} \end{cases}$$

Where:

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz;

and

$$P_{\rm th} \ ({\rm mW}) = ERP_{\rm 20 \ cm} \ ({\rm mW}) = \begin{cases} 2040f & 0.3 \ {\rm GHz} \le f < 1.5 \ {\rm GHz} \\ \\ 3060 & 1.5 \ {\rm GHz} \le f \le 6 \ {\rm GHz} \end{cases}$$

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to §1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (MHz)	Threshold ERP (W)			
0.3 - 1.34	1920R ²			
1.34 - 30	3450R ² /f ²			
30 - 300	3.38R ²			
300 - 1500	0.0128R ² /f ²			
1500 - 100000	19.2R ²			

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For multiple RF sources: Multiple RF sources are exempt if:

- a) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- b) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source *k*, as applicable from § 1.1310 of this chapter.

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4. CLASSIFICATION

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

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type		
WLAN 2.4G	2	PCB Antenna		
ВТ	2	PCB Antenna		

This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.

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6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Option	Mode	Frequency (MHz)	Maximum conducted power(dBm)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)	
В	WLAN 2.4G	2412 ~ 2462	18.46	18	+-1	17	19	
0	ВТ	2402 ~ 2480	5.56	5	+-1	4	6	

7. MAXIMUM PERMISSIBLE EXPOSURE

Option	Technology	Maximum tune up power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Part1.1307b Threshold (mW)	Ratio	Verify
	WLAN 2.4G	19	2	21	18.85	76.74	3060	0.025	PASS
В	ВТ	6	2	8	5.85	3.85	3060	0.001	PASS
Note: Rased on 20cm assessment									

Note: Based on 20cm assessment

CALCULATION FOR SIMULTANEOUS TRANSMISSION:

WLAN 2.4G and BT can transmit simultaneously, the formula of calculated the MPE is

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Max: (76.74 / 3060) + (3.85 / 3060) = 0.026 < 1, which is less than the "1" limit, is compliant with the RF exposure requirements.

----- End of the Report -----

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Important

- (1) The test report is invalid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

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