

RF Exposure Evaluation Report

Product : Wireless Pet Fence
Trade mark : PETZEE
Model/Type reference : PZX-60
Serial Number : N/A
Report Number : EED32Q80050502
FCC ID : 2BLQG-PZX-60T
Date of Issue : Jan. 13, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091(mobile devices)
47 CFR Part 2.1093(portable devices)
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

SHENZHEN SEABOOM CO.,LTD
Building 9,Yuanyiyuan Industrial Zone,Baotian,Xi'xiang Street,Bao'an
District,Shenzhen,China.

Prepared by:

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Jan. 13, 2025

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1 Version

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3 General Information

3.1 Client Information

Applicant:	SHENZHEN SEABOOM CO.,LTD
Address of Applicant:	Building 9,Yuanyiyuan Industrial Zone,Baotian,Xi'xiang Street, Bao'an District,Shenzhen,China.
Manufacturer:	SHENZHEN SEABOOM CO.,LTD
Address of Manufacturer:	Building 9,Yuanyiyuan Industrial Zone,Baotian,Xi'xiang Street, Bao'an District,Shenzhen,China.
Factory:	SHENZHEN SEABOOM CO.,LTD
Address of Factory:	Building 9,Yuanyiyuan Industrial Zone,Baotian,Xi'xiang Street, Bao'an District,Shenzhen,China.

3.2 General Description of EUT

Product Name:	Wireless Pet Fence		
Model No.:	PZX-60		
Trade mark:	PETZEE		
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location		
Frequency Range:	915MHz		
Number of Channels:	1 (declared by the client)		
Antenna Type:	Spring antenna		
Antenna gain:	0.5dBi		
Test Software of EUT:	RF test		
Test Power Grade:	Default		
Power Supply:	Battery:	DC 5.5V	
	Adapter:	Input:100V-240V~50/60Hz,0.35A; Output:5V,1A	
	USB Port:	DC 5.0V	
Test Voltage:	DC 5.0V		
Sample Received Date:	Dec. 16, 2024		
Sample tested Date:	Dec. 16, 2024 to Dec. 24, 2024		
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.			

3.3 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None.

3.6 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at only channel individually.

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

Frequency (MHz)	Field strength of the fundamental signal (dBuV/m@3m)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
915	77.73	-19.65	0.0108	≤7.0540	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32Q80050501 and only the worst case data was recorded in the report.

声明

Statement

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;

This report is considered invalid without approved signature, special seal and the seal on the perforation;

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The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

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The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 除非另有说明, 报告参照 ILAC-G8:09/2019/CNAS-GL015: 2022 使用简单接受判定规则进行符合性判定;

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

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*** 报告结束 ***

*** End of Report ***