



REPORT No.: SZ24030381S01

RF EXPOSURE EVALUATION REPORT

APPLICANT : Homerunpet Inc
PRODUCT NAME : Wireless Pet Water Fountain
MODEL NAME : BF10
BRAND NAME : N/A
STANDARD(S) : FCC 47CFR Part 2(2.1091)
RECEIPT DATE : 2024-03-12
TEST DATE : 2024-03-15 to 2024-03-27
ISSUE DATE : 2024-05-13

Edited by: _____
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Change History		
Version	Date	Reason for Change
1.0	2024-05-13	First edition



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Homerunpet Inc
Applicant Address:	Homerunpet Inc. 18th St. Cheyenne, WY 82001
Manufacturer:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd
Manufacturer Address:	Room 201,Building A,No.1 Qianwan 1st Road,Qianhai Shenzhen-Hong Kong Cooperation Zone,Shenzhen, Guangdong Province, China

1.2 Equipment under Test (EUT) Description

Product Name:	Wireless Pet Water Fountain
Serial No.:	(N/A, marked #1 by test site)
Hardware Version:	N/A
Software Version:	N/A
Frequency Range:	10.525 GHz

Note:

When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.



1.3 Applied Reference Documents

Leading reference documents for testing:

Identity	Document Title	Method determination /Remark
FCC 47 CFR Part 2(2.1091)	Radio Frequency Radiation Exposure Assessment: mobile devices	No deviation
KDB 447498 D01v06	General RF Exposure Guidance	No deviation
Note: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.		



2. Device Category and RF Exposure Limit

Per user manual, Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

General Population/Uncontrolled Exposure:

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz* = Plane-wave equivalent power density



3. Maximum Peak Power (e.i.r.p) Summary

Frequency (GHz)	Antenna	Max. field strength (dBuV/m)	Max. field strength (V/m)
10.525	H	114.91	0.56
	V	113.64	0.48

Note:

1. According to KDB 447498 Section 4.3, MPE assessment is based on source-based time-averaged maximum conducted output power of the RF channel requiring assessment, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
2. The maximum field strength is derived from the report SZ24030381W01.
3. Limitation expressed in dBuV/m is calculated by $20\log$ Emission Level ($1000 \times \text{mV/m}$) per section 15.245(b).

4. RF Exposure Assessment

➤ Standalone Transmission Assessment:

Frequency (GHz)	Module	Max. field strength (V/m)	Peak EIRP (mW)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
10.525	1	0.56	92.9	0.02	1.0
	2	0.56	92.9	0.02	1.0

Note:

- There are two radar modules in this device, and both of them can transmit at the same time that only the worst condition was recorded in SZ24030381W01, therefore this result would be used for the RF exposure assessment of standalone transmission based on the conservative principle.
- According to the unwanted emissions requirements of ANSI C63.10-2020 clause 12.7.3, if radiated measurements are performed, then field strength is then converted to EIRP.
- EIRP calculate method

$$\text{EIRP} = (E \cdot d)^2 / 30$$

Where

E is electric field strength in V/m

d is measurement distance in meters (m)

EIRP is the equivalent isotropically radiated power in W

- MPE calculate method

$$\text{Power Density} = \text{EIRP} / 4\pi R^2$$

Where: EIRP = P+G

P = Output Power (dBm)

G = Antenna Gain (dBi)

R = Separation Distance (20cm)

➤ Simultaneous Transmission Assessment:

Frequency (GHz)	Module	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)	Total Exposure Ratio	Verdict
10.525	1	0.02	1.0	0.04	PASS
	2	0.02	1.0		

Note: Simultaneous transmission calculation formula:

$$\text{TER} = \text{Power density}_1 / \text{limit}_1 + \text{Power density}_2 / \text{limit}_2 \leq 1.$$

➤ Conclusion:

According to 47 CFR §2.1091, this device complies with human exposure basic restrictions.



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

The FCC designation number is CN1192, the test firm registration number is 226174.

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