CERTIFICATION TEST REPORT

Manufacturer: Structured Monitoring Products

151 Innovation Way, Suite 210

Elyria, Ohio 44035 USA

Applicant: Same as Above

Product Name: Heart Monitor (VetGuardian)

Product Description: Heart rate and respiratory rate measurement device for animals.

Operating Voltage/Freq.

of EUT During Testing: 12VDC from Host

Model: SMPVG04

*Denotes actual model tested to add it to product family that includes models SMPVG02 Version 2.5 and SMPVG03.

FCC ID: 2ARN8-SMPVG02

Testing Commenced: 2023-12-18

Testing Ended: 2023-12-18

Test Results: In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem

it non-compliant.

Standards:

KDB447498

• FCC Part 1.1310

042216



Applicant: Structured Monitoring Products
Model: SMPVG04

floschill

Evaluation Conducted by:

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

Ken Littell, Vice President of Operations

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Order No(s): F2P27463-R1-C1A

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Order No(s): F2P27463-R1-C1A Applicant: S

1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P27463-R1-C1A-04E	First Issue	2024-05-29	K. Littell

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2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498 FCC Part 1.1310	Complies

Modifications Made to the Equipment
None

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Model: SMPVG04

3 ENGINEERING STATEMENT

This report has been prepared on behalf of Structured Monitoring Products, Inc. to provide documentation for the testing described herein. This equipment has been tested and found to comply with FCC Rule Part 1.1310 and KDB447498. The test results found in this test report relate only to the item(s) tested.

 F2

C1A Applicant: Structured Monitoring Products

Model: SMPVG04

4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: Heart Monitor (VetGuardian)

Model: SMPVG04*

Serial No.: 1 Firmware: 2.5 Hardware: F

FCC ID: 2ARN8-SMPVG02

Contains FCC ID: 2ABCB-RPICM4

*Denotes actual model tested to add it to product family that includes models SMPVG02 Version 2.5 and SMPVG03.

4.2 Trade Name:

Structured Monitoring Products

4.3 Power Supply:

12VDC from AC Supply

4.4 Applicable Rules:

- KDB447498
- FCC Part 1.1310

4.5 Antenna:

Integral Antenna of Radar Transmitter, 0dBi Gain Wi-Fi Antenna for 2.4 GHz transmission, 3.5dBi Gain Wi-Fi Antenna for 5 GHz transmission, 2.3dBi Gain

4.6 Accessories:

Shenzhen AC Adaptor J483-1203500UX

042216



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RF EXPOSURE FOR DEVICE >20cm FROM HUMAN 5

5.1 **Requirements:** Distance used is 20cm

> Limit: 1mW/cm²

E.I.R.P. 4 π R² Formula used for result:

Results: E.I.R.P. of Radar transmission = 0.0143mW

P(dBm)=E(dBuVm)+20LOG(d)-G-104.77

76.8 + 9.542425 - 0 - 104.77 = -18.44

0.0143mW at the 5870 MHz single channel.

0.0143 mW = 0.0143 mW = 0.0000028 mW/cm 2

5026.55

The highest E.I.R.P. of the Wi-Fi as reported in the authorization for the Wi-Fi module in the 5170 – 5825

MHz range = 112.2 mW

 $\frac{112.2\text{mW}}{4 \text{ m R}^2} = \frac{112.2\text{mW}}{5026.55} = 0.0223\text{mW/cm}2$

0.0000028mW/cm2 = Ratio of 0.000003

1mW/cm²

0.0223mW/cm2 = Ratio of 0.0223

1mW/cm²

The combined MPE of Wi-Fi and Radar is Ratio of 0.000003 + 0.0223 = 0.022303