

Bigfoot Biomedical, Inc. **RF Exposure Exhibit**

SCOPE OF WORK

EMC TESTING – Bigfoot Unity System, Model: RCAP

REPORT NUMBER

104424286MPK-004A

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**RF Exposure Exhibit
(Portable devices)****Report Number:** 104424286MPK-004A**Project Number:** G104424286**Report Issue Date:** November 20, 2020**Product Designation:** Bigfoot Unity System**Model Tested:** RCAP**FCC ID:** 2AVAYUR001

to

47CFR 2.1093

for

Bigfoot Biomedical, Inc.**Tested by:**Intertek
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Milpitas, CA 95035 USA**Report prepared by:****Anderson Soungpanya / Project Engineer****Report reviewed by:****Krishna Vemuri / EMC Manager**

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| Report No. 104424286MPK-004A | |
|-------------------------------------|--|
| Equipment Under Test: | Bigfoot Unity System |
| Trade Name: | Bigfoot Biomedical, Inc. |
| Model(s) Tested: | RCAP |
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| Applicable Regulation: | 47CFR 2.1093 |

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1.0 RF Exposure Summary

| Test | Reference FCC | Result |
|---|---------------|----------|
| Radio frequency Radiation Exposure Evaluation | 47 CFR§2.1093 | Complies |

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v06, at frequency 2480 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 9.525 mW.

3.0 Test Results (Portable Configuration)

3.1 Classification

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

3.2 EIRP calculations

The Bigfoot Unity System consists of Bluetooth Low Energy radio.

3.3 Maximum RF Power

| Frequency Range (MHz) | RF Output (dBm) | Antenna Gain ¹ (dBi) | Note |
|-----------------------|-----------------|---------------------------------|--|
| 2402-2480 | -2.52 | 5.3 | Conducted power measurements were taken from Report # 104424286MPK-004 |

¹As declared by the manufacturer.

3.4 RF Exposure Calculation for Bigfoot Unity System

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v06

According to FCC KDB 447498 D01 v06 at frequency 2480 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 9.525 mW.

Max Peak Conducted Power measured = -2.52 dBm or 0.560mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -2.52 dBm (RF Conducted Power) + 5.3 dBi (Antenna Gain) = 2.78dBm or 1.897 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotropically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

4.0 Document History

| Revision/ Job Number | Writer Initials | Reviewers Initials | Date | Change |
|-------------------------|--------------------|-----------------------|-------------------|-------------------|
| 1.0/ G104424286 | AS | KV | November 20, 2020 | Original document |