

# Bigfoot Biomedical, Inc. RF Exposure Exhibit

**SCOPE OF WORK**

EMC TESTING – Bigfoot Unity System, Model: LCAP

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**RF Exposure Exhibit  
(Portable devices)**

**Report Number:** 104424286MPK-003A

**Project Number:** G104424286

**Report Issue Date:** November 20, 2020

**Product Designation:** Bigfoot Unity System

**Model Tested:** LCAP

**FCC ID:** 2AVAYUL001

to

**47CFR 2.1093**

for

**Bigfoot Biomedical, Inc.**

**Tested by:**

Intertek  
1365 Adams Court  
Menlo Park, CA 94025 USA

**Client:**

Bigfoot Biomedical, Inc.  
1820 McCarthy Blvd  
Milpitas, CA 95035 USA

**Report prepared by:**



**Anderson Soungpanya / Project Engineer**

**Report reviewed by:**



**Krishna Vemuri / EMC Manager**

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<b>Report No. 104424286MPK-003A</b>	
<b>Equipment Under Test:</b>	Bigfoot Unity System
<b>Trade Name:</b>	Bigfoot Biomedical, Inc.
<b>Model(s) Tested:</b>	LCAP
<b>Applicant:</b>	Bigfoot Biomedical, Inc.
<b>Contact:</b>	Ravi Shankar
<b>Address:</b>	Bigfoot Biomedical, Inc. 1820 McCarthy Blvd Milpitas, CA 95035
<b>Country:</b>	USA
<b>Tel. Number:</b>	(925) 949-6963
<b>Email:</b>	rshankar@bigfootbiomedical.com
<b>Applicable Regulation:</b>	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  $\leq 5$  mm SAR Exemption limit is  $\leq 9.525$  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 <sup>1</sup> (dBi)	Note
2402-2480	-2.52	5.3	Conducted power measurements were taken from Report # 104424286MPK-003

<sup>1</sup>As 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  $\leq 5$  mm SAR Exemption limit is  $\leq 9.525$  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**

<b>Revision/ Job Number</b>	<b>Writer Initials</b>	<b>Reviewers Initials</b>	<b>Date</b>	<b>Change</b>
1.0/ G104424286	AS	KV	November 20, 2020	Original document