

***Rogers Labs, a division of The Compatibility Center LLC***

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47CFR, PART 15C - Intentional Radiators  
47CFR Paragraph 15.247 and  
Industry Canada RSS-247 Issue 3 and RSS-GEN Issue 5  
**Application For Grant of Certification**

**HVIN: VitalPro-01**

**Model/PMN: VitalPro**

2402-2480 and 2412-2462 MHz Digital Transmission System (DTS)

**FCC ID: 2BNHH01**


**IC: 33491-01**

**Tyme Wear, Inc.**

450 Artisan Way. Suite 310  
Somerville, MA. 02145  
Juan Carlos Morales

Test Report Number: 250120

Test Date: January 20, 2025 – March 6, 2025

Authorized Signatory: 

Patrick Powell

Rogers Labs, a division of The Compatibility Center LLC

FCC Designation: US5305

ISED Registration: 3041A

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Revision 2

Test: 250120

FCC ID: 2BNHH01 IC: 33491-01

Test to: 47CFR 15C, RSS-Gen RSS-247

File: VitalPro-01 DTS TstRpt 250120 r2

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Tyme Wear, Inc.

PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 1 of 38

<b>TABLE OF CONTENTS.....</b>	<b>2</b>
<b>REVISIONS.....</b>	<b>4</b>
<b>EXECUTIVE SUMMARY .....</b>	<b>5</b>
<b>OPINION / INTERPRETATION OF RESULTS .....</b>	<b>6</b>
<b>EQUIPMENT TESTED.....</b>	<b>8</b>
Equipment Operational Modes.....	8
Equipment Function .....	8
Equipment Configuration.....	9
<b>ENVIRONMENTAL CONDITIONS.....</b>	<b>9</b>
<b>APPLICATION FOR CERTIFICATION.....</b>	<b>10</b>
<b>TEST SITE LOCATIONS .....</b>	<b>11</b>
<b>UNITS OF MEASUREMENTS .....</b>	<b>12</b>
<b>STATEMENT OF MODIFICATIONS AND DEVIATIONS .....</b>	<b>12</b>
<b>APPLICABLE STANDARDS.....</b>	<b>13</b>
<b>INTENTIONAL RADIATORS.....</b>	<b>13</b>
Antenna Requirements .....	13
<b>TEST PROCEDURES.....</b>	<b>14</b>
AC Line Conducted Emission Test Procedure .....	14
Radiated Emission Procedure.....	14
Antenna Port Conducted Emission Test Procedure.....	14
Diagram 1 Test arrangement for power-line conducted emissions.....	15
Diagram 2 Test arrangement for radiated emissions of tabletop equipment.....	16
Diagram 3 Test arrangement for radiated emissions tested in Semi-Anechoic Chamber (SAC) and Outdoor Area Test Site (OATS) .....	17

Diagram 4 Test arrangement for Antenna Port Conducted emissions.....	18
<b>RESTRICTED BANDS OF OPERATION .....</b>	<b>18</b>
Table 1 Radiated Emissions in Restricted Frequency Bands Data Mode 1, BT BLE .....	19
Summary of Results for Radiated Emissions in Restricted Bands .....	19
<b>AC LINE CONDUCTED EMI PROCEDURE.....</b>	<b>20</b>
<b>GENERAL RADIATED EMISSIONS PROCEDURE.....</b>	<b>20</b>
Table 2 General Radiated Emissions Data – Worst Case (Horizontal Polarization) .....	21
Table 3 General Radiated Emissions Data – Worst Case (Vertical Polarization) .....	21
Figure 1 Plot of General Radiated Emissions – Horizontal Polarization .....	22
Figure 2 Plot of General Radiated Emissions – Vertical Polarization.....	22
Figure 3 Plot of General Radiated Emissions 1 GHz – 3 GHz .....	23
Figure 4 Plot of General Radiated Emissions 1 GHz – 6 GHz .....	24
Summary of Results for General Radiated Emissions .....	24
<b>OPERATION IN THE BAND 2400 – 2483.5 MHZ .....</b>	<b>25</b>
Figure 5 Plot of Transmitter Operation in 2402-2480 MHz Mode 1, BT BLE .....	26
Figure 6 Plot of Emissions Low Band Edge Mode 1, BT BLE .....	27
Figure 7 Plot of Transmitter Emissions High Band Edge Mode 1, BT BLE.....	28
Figure 8 Plot of 6-dB Occupied Bandwidth Mode 1, BT BLE .....	29
Figure 9 Plot of 99% Occupied Bandwidth Mode 1, BT BLE.....	30
Figure 10 Plot of Transmitter Power Spectral Density Mode 1, BT BLE .....	31
<b>TRANSMITTER EMISSIONS DATA.....</b>	<b>32</b>
Table 4 Transmitter Radiated Emissions Mode 1, BT BLE.....	32
Table 5 Transmitter Antenna Port Conducted Data mode 1 .....	33
Summary of Results for Transmitter Radiated Emissions of Intentional Radiator.....	33
<b>ANNEX.....</b>	<b>34</b>

**Annex A Measurement Uncertainty Calculations.....35**  
**Annex B Test Equipment.....36**  
**Annex C Laboratory Certificate of Accreditation.....38**

**Revisions**

Revision 1 Issued April 3, 2025 – Initial Release  
  
 Revision 2 Issued April 15, 2025 – incorporated review feedback.

## Executive Summary

The following information is submitted for consideration in obtaining Grant of Certification for License Exempt Digital Transmission System Intentional Radiator operating under Code of Federal Regulations Title 47 (47CFR) Part 15C paragraph 15.247, Industry Canada RSS-247 Issue 3, and RSS-GEN Issue 5, operation in the 2400 – 2483.5 MHz band.

Name of Applicant: Tyme Wear, Inc.  
 450 Artisan Way. Suite 310  
 Somerville, MA. 02145

HVIN: VitalPro-01

PMN: VitalPro

FCC ID: 2BNHH01 IC: 33491-01

Operating Frequency Range: 2402-2480 MHz

VitalPro-01 was chosen for transmitter configuration testing and used for final measurements.

Operational communication mode 1:

Mode	Power (Watts)	99% OBW (kHz)	6-dB OBW (kHz)
Mode 1, BT BLE (GMSK)	0.006	1,071.8	709.0

This report addresses EUT Operations as Digital Transmission System using transmitter modulations in mode 1. Note, the production device utilizes a non-user accessible integral antenna system with 0.17 dBi gain.

## Opinion / Interpretation of Results

Tests Performed	Margin (dB)	Results
Restricted Band Emissions 15.205, RSS-GEN, RSS-247	-6.8	Complies
AC Line Emissions as per 47CFR 15.207, RSS-GEN 8.8	N/A	Complies
Radiated Emissions 47 CFR 15.209, RSS-GEN 8.9	-1.8	Complies
Harmonic Emissions per 47CFR 15.247, RSS-247	-1.5	Complies
Power Spectral Density per 47CFR 15.247, RSS-247	-13.0	Complies

Tests performed include:

### 47CFR 15.247

(a) (2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one-Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the *maximum conducted output power* is the highest total transmit power occurring in any mode.

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the

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HVIN:VitalPro-01

Tyme Wear, Inc.

PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 6 of 38

restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### RSS-247 Issue 3

#### **5.2 Digital transmission systems**

DTS's include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz

- a) The minimum 6 dB bandwidth shall be 500 kHz.
- b) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e., the power spectral density shall be determined using the same method as is used to determine the conducted output power).

#### **5.4 Transmitter output power and equivalent isotropically radiated power (e.i.r.p.) requirements**

Devices shall comply with the following requirements, where applicable:

- d) For DTS's employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

#### **5.5 Unwanted emissions**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

## Equipment Tested

HVIN: VitalPro-01

PMN/Model Name: VitalPro

Tyme Wear, Inc.  
 450 Artisan Way. Suite 310  
 Somerville, MA. 02145

<u>Equipment</u>	<u>Model / PN</u>	<u>Serial Number</u>
EUT #1 Radiated	VitalPro	N/A
EUT #2 Antenna Port Conducted	VitalPro	N/A
Segger J-Link	EDU	N/A

Test results in this report relate only to the items tested. Worst-case configuration data recorded in this report.

Software (FVIN): 0.70 or higher; Antennas: BLE Patch (0.17 dBi)

## Equipment Operational Modes

Mode	Transmitter Operation
mode 1	BT BLE (GMSK)

## Equipment Function

The device is a wearable chest strap that measures breathing. The design incorporates transmitter circuitry operating in the 2402-2480 MHz frequency band. It communicates the signal over BLE to a host device like a phone, tablet, watch, etc. The EUT offers no other interface connections other than those presented in the configuration options as described by the manufacturer and presented below. During testing, the test system was configured to operate in a manufacturer defined mode. The manufacturer provided test software for testing transmitter and equipment function. The software provided the ability to operate the transmitter at near 100% duty cycle for testing purposes. The testing mode of operation exceeds typical duty cycle operation of production equipment. As requested by the manufacturer, the equipment was tested for emissions

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Tyme Wear, Inc.

PMN: VitalPro

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Date: April 16, 2025

Page 8 of 38



compliance using the available configurations with the worst-case data presented. Test results in this report relate only to the products described in this report.

### ***Equipment Configuration***

- 1) EUT operating off internal battery

**Equipment under Test**

### **Environmental Conditions**

Ambient Temperature	20.4° C
Relative Humidity	17.0 %
Atmospheric Pressure	1034.0 mb

## Application for Certification

- (1) Manufacturer: Tyme Wear, Inc.  
450 Artisan Way. Suite 310  
Somerville, MA. 02145
- (2) Identification: HVIN: VitalPro-01  
FCC ID: 2BNHH01 IC: 33491-01
- (3) Instruction Book:  
Refer to Exhibit for Instruction Manual.
- (4) Description of Circuit Functions:  
Refer to Exhibit of Operational Description.
- (5) Block Diagram with Frequencies:  
Refer to Exhibit of Operational Description.
- (6) Report of Measurements:  
Report of measurements follows in this Report.
- (7) Photographs: Construction, Component Placement, etc.:  
Refer to Exhibit for photographs of equipment.
- (8) List of Peripheral Equipment Necessary for operation. The equipment operates from external direct current power provided from installation vehicle. The EUT provides interface ports for power, loads and communications as presented in this filing.
- (9) Transition Provisions of 47CFR 15.37 are not requested.
- (10) Not Applicable. The unit is not a scanning receiver.
- (11) Not Applicable. The EUT does not operate in the 59 – 64 GHz frequency band.
- (12) The equipment is not software defined and this section is not applicable.
- (13) Applications for certification of U-NII devices in the 5.15-5.35 GHz and the 5.47-5.85 GHz bands must include a high-level operational description of the security procedures that control the radio frequency operating parameters and ensure that unauthorized modifications cannot be made. This requirement is not applicable to this DTS device.
- (14) Contain at least one drawing or photograph showing the test set-up for each of the required types of tests applicable to the device for which certification is requested. These drawings or photographs must show enough detail to confirm other information contained in the test report. Any photographs used must be focused originals without glare or dark spots and must clearly show the test configuration used. This information is provided in this report and Test Setup Exhibits provided with the application filing.

## Test Site Locations

Conducted EMI      AC line conducted emissions testing performed in a shielded screen room located at Rogers Labs, a division of The Compatibility Center LLC, 7915 Nieman Rd., Lenexa, KS (or satellite location).

Antenna port      Antenna port conducted emissions testing was performed in a shielded screen room located at Rogers Labs, a division of The Compatibility Center LLC, 7915 Nieman Rd., Lenexa, KS (or satellite location).

Radiated EMI      The radiated emissions tests were performed at the 3 meters Semi-Anechoic Chamber (SAC) located at Rogers Labs, a division of The Compatibility Center LLC, 7915 Nieman Rd., Lenexa, KS or at the 3 meters Outdoor Area Test Site (OATS) in the satellite location.

Registered Site information:    FCC Site: US5305, ISED: 3041A, CAB Identifier: US0096

NVLAP Accreditation      Lab code 200087-0

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Tyme Wear, Inc.

PMN: VitalPro

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Date: April 16, 2025

Page 11 of 38

## Units of Measurements

Conducted EMI      Data presented in dB $\mu$ V; dB referenced to one microvolt

Antenna port Conducted      Data is in dBm; dB referenced to one milliwatt

Radiated EMI      Data presented in dB $\mu$ V/m; dB referenced to one microvolt per meter

Note: The limit is expressed for a measurement in dB $\mu$ V/m when the measurement is taken at a distance of 3 or 10 meters. Data taken for this report was taken at distance of 3 meters. Sample calculation demonstrates corrected field strength reading for Semi-Anechoic Chamber using the measurement reading and correcting for receive antenna factor, cable losses, and amplifier gains.

Sample Calculation:

RFS = Radiated Field Strength, FSM = Field Strength Measured

A.F. = Receive antenna factor, Losses = attenuators/cable losses, Gain = amplification gains

$RFS (dB\mu V/m @ 3m) = FSM (dB\mu V) + A.F. (dB/m) + Losses (dB) - Gain (dB)$

Frequency: 9 kHz-30 MHz	Frequency: 30 MHz- 1 GHZ	Frequency: Above 1 GHz
Loop Antenna	Broadband Biconilog	Horn
RBW = 9 kHz	RBW = 120 kHz	RBW = 1 MHz
VBW = 30 kHz	VBW = 500 kHz	VBW = 3 MHz
Sweep time = Auto	Sweep time = Auto	Sweep time = Auto
Detector = PK, QP	Detector = PK, QP	Detector = PK, AV
Antenna Height 1m	Antenna Height 1-4m	Antenna Height 1-4m

## Statement of Modifications and Deviations

No modifications to the EUT were required for the equipment to demonstrate compliance with the 47CFR Part 15C, Industry Canada RSS-247 Issue 3, and RSS-GEN Issue 5 emission requirements. There were no deviations to the specifications.

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Tyme Wear, Inc.

PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 12 of 38

## Applicable Standards

The following information is submitted in accordance with the eCFR (electronic Title 47 Code of Federal Regulations) (47CFR), dated October 18, 2024: Part 2, Subpart J, Part 15C Paragraph 15.247, RSS-247 Issue 3, and RSS-GEN Issue 5. Test procedures used are the established Methods of Measurement of Radio-Noise Emissions as described in ANSI C63.10-2013. This report documents compliance for the EUT operations as Digital Transmission Systems operation.

## Intentional Radiators

The following information is submitted supporting compliance with the requirements of 47CFR, Subpart C, paragraph 15.247, Industry Canada RSS-247 Issue 3, and RSS-GEN Issue 5.

## Antenna Requirements

The EUT incorporates integral non-user accessible system. Production equipment offers no provision for connection to alternate antenna system. The antenna connection point complies with the unique antenna connection requirements. There are no deviations or exceptions to the specification.

## Test Procedures

### ***AC Line Conducted Emission Test Procedure***

The design operates from Direct Current power only and offers no provision to interface with Utility AC Power systems. Therefore, No AC Line conducted emissions testing was required or preformed.

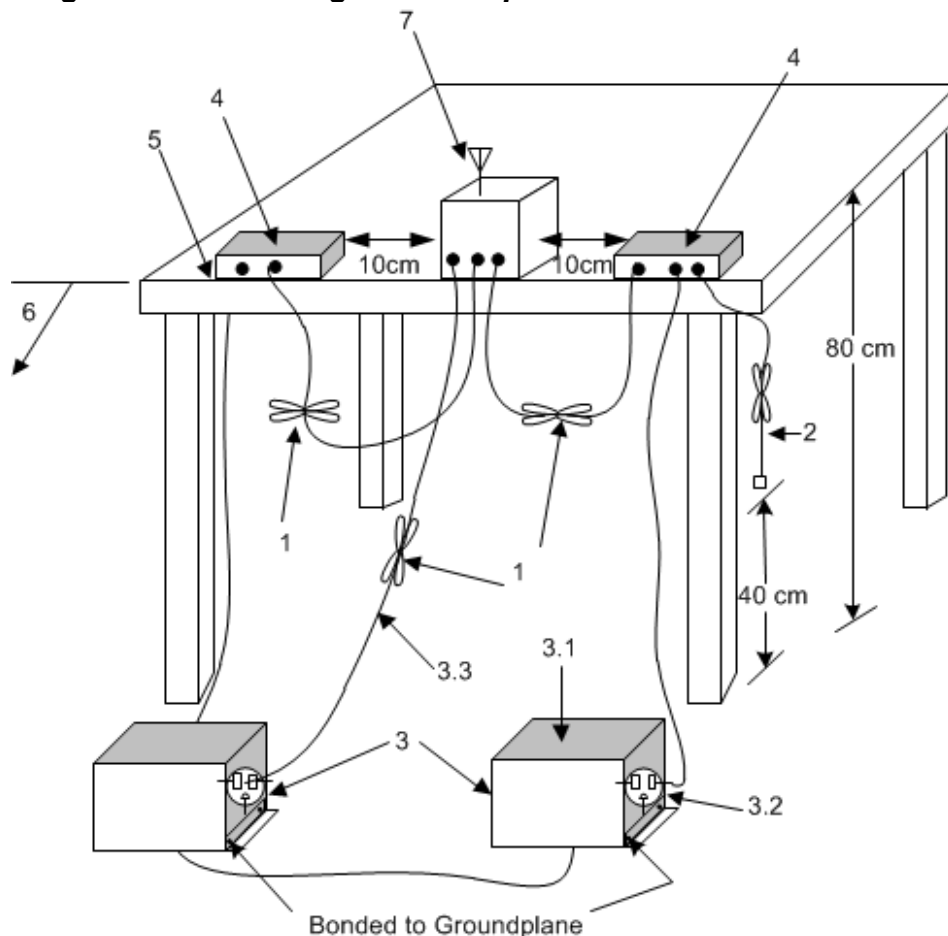
### ***Radiated Emission Procedure***

Radiated emissions testing was performed as required in 47CFR 15C, RSS-247 Issue 3, RSS-GEN and specified in ANSI C63.10-2013. The EUT was placed on a rotating 0.9 x 1.2-meter platform, elevated as required above the ground plane at a distance of 3 meters from the FSM antenna. EMI energy was maximized by equipment placement permitting orientation in three orthogonal axes, raising, and lowering the FSM antenna, changing the antenna polarization, and by rotating the turntable. Each emission was maximized before data was taken and recorded. The frequency spectrum from 9 kHz to 25,000 MHz was searched for emissions during preliminary investigation. All other unreported findings were at least 20 dB below limits. Refer to diagrams two and three showing typical test setup. Refer to photographs in the test setup exhibits for specific EUT placement during testing.

### ***Antenna Port Conducted Emission Test Procedure***

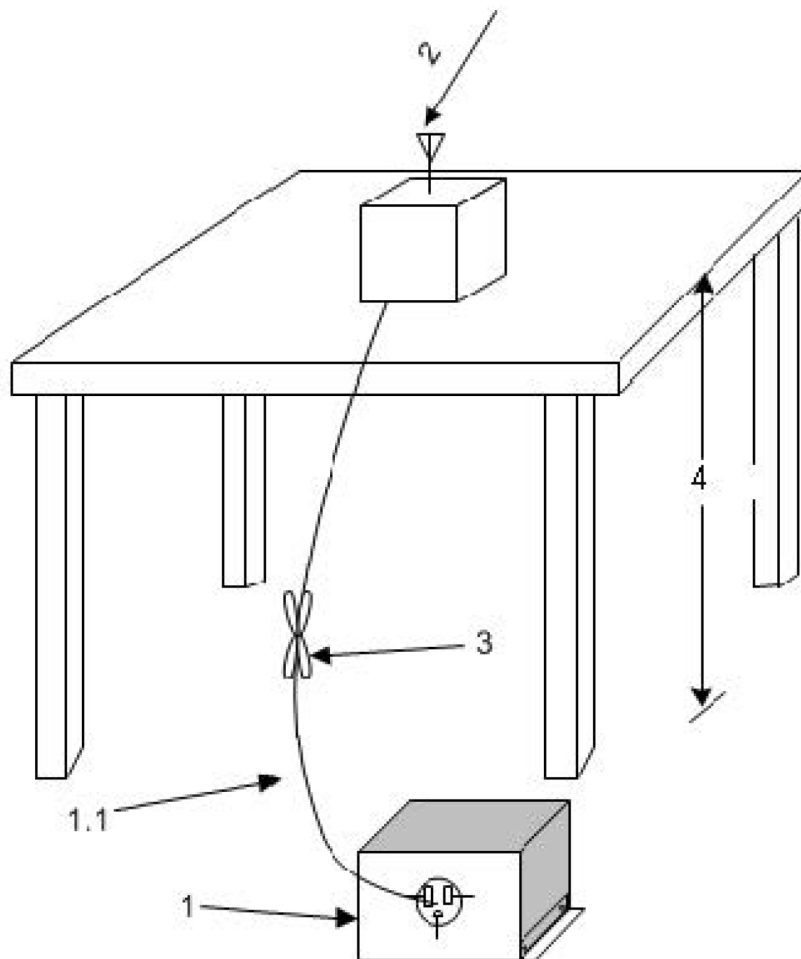
The EUT was assembled as required for operation placed on a benchtop. This configuration provided the ability to connect test equipment to the provided test antenna port. Antenna Port conducted emissions testing was performed presented in the regulations and specified in ANSI C63.10-2013. Testing was completed on a laboratory bench in a shielded room. The active antenna port of the device was connected to appropriate attenuation and the spectrum analyzer. Refer to diagram 4 showing typical test arrangement and photographs in the test setup exhibits for specific EUT placement during testing.

**Diagram 1 Test arrangement for power-line conducted emissions**



1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long see (see 6.2.3.1).
2. I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.2.2).
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50  $\Omega$  loads. LISN can be placed on top of, or immediately beneath, reference ground plane (see 6.2.2 and 6.2.3).
  - 3.1 All other equipment powered from additional LISN(s).
  - 3.2 Multiple-outlet strip can be used for multiple power cords of non-EUT equipment.
  - 3.3 LISN at least 80 cm from nearest part of EUT chassis.
4. Non-EUT components of EUT system being tested.
5. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.3.1).
6. Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane (see 6.2.2 for options).
7. Antenna may be integral or detachable. If detachable, the antenna shall be attached for this test

**Diagram 2 Test arrangement for radiated emissions of tabletop equipment**

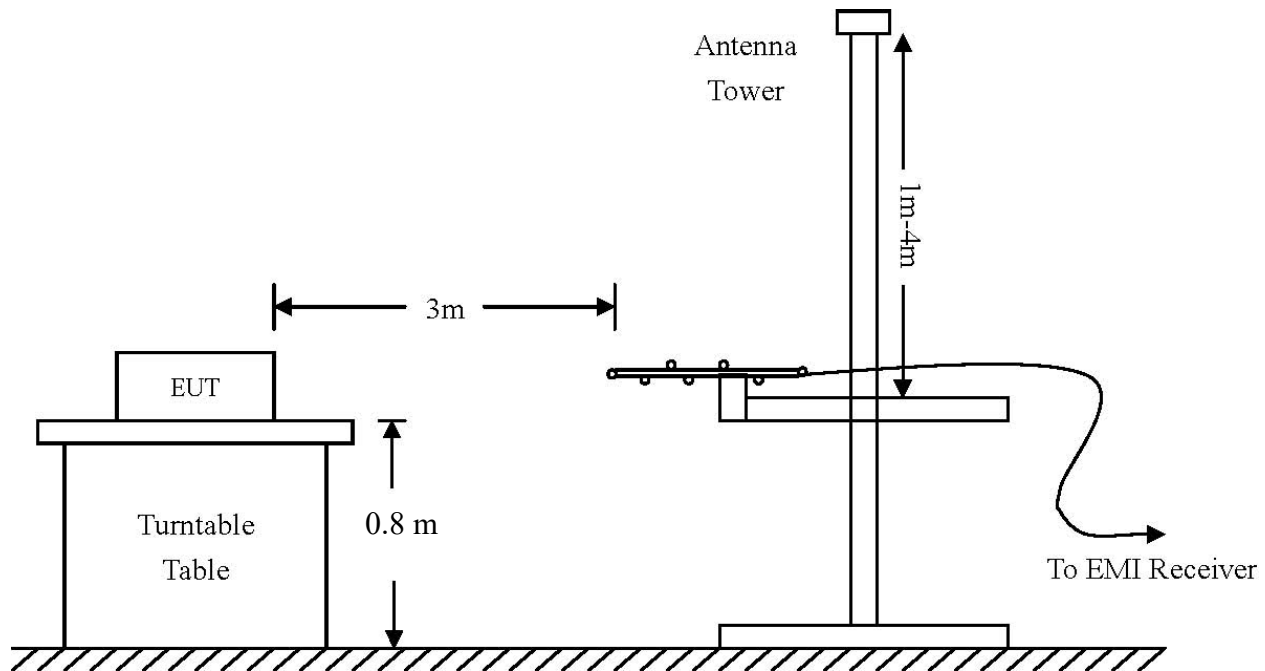


1. A LISN is optional for radiated measurements between 30 MHz and 1000 MHz but not allowed for measurements below 30 MHz and above 1000 MHz (see 6.3.1). If used, then connect EUT to one LISN. Unused LISN measuring port connectors shall be terminated in 50  $\Omega$  loads. The LISN may be placed on top of, or immediately beneath, the reference ground plane (see 6.2.2 and 6.2.3.2).
  - 1.1. LISN spaced at least 80 cm from the nearest part of the EUT chassis.
2. Antenna can be integral or detachable, depending on the EUT (see 6.3.1).
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long (see 6.3.1).
4. For emission measurements at or below 1 GHz, the table height shall be 80 cm. For emission measurements above 1 GHz, the table height shall be 1.5 m for measurements, except as otherwise specified (see 6.3.1 and 6.6.3.1).

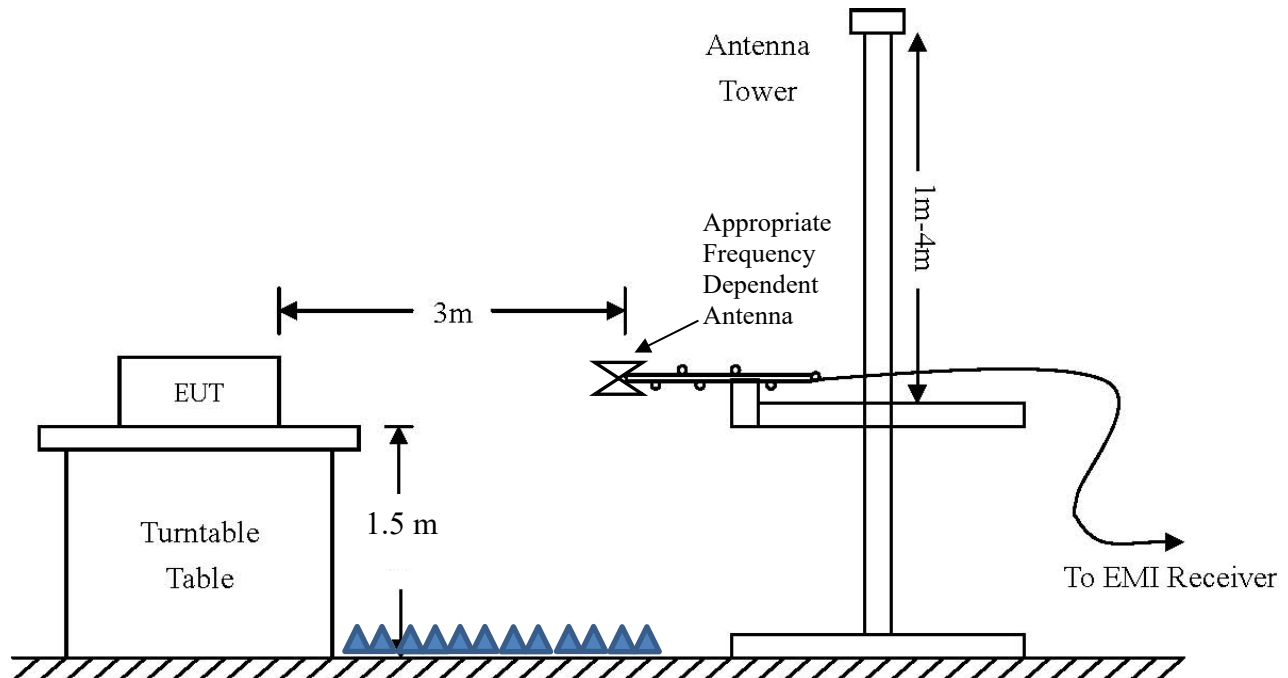


**Diagram 3 Test arrangement for radiated emissions tested in Semi-Anechoic Chamber (SAC) and Outdoor Area Test Site (OATS)**

Below 1 GHz



Above 1 GHz:



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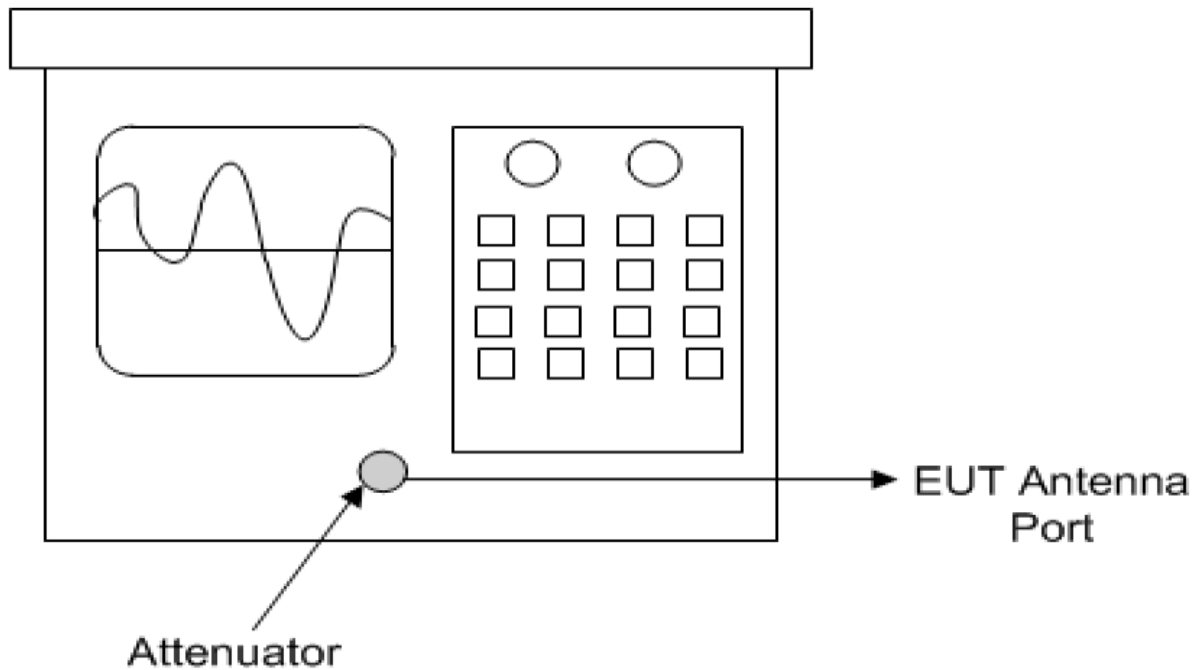
PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 17 of 38

**Diagram 4 Test arrangement for Antenna Port Conducted emissions**  
**Spectrum Analyzer**



### Restricted Bands of Operation

Spurious emissions falling in the restricted frequency bands of operation were measured at the SAC. The EUT utilizes frequency, determining circuitry, which generates harmonics falling in the restricted bands. Emissions were investigated at the SAC, using appropriate antennas or pyramidal horns, amplification stages, and a spectrum analyzer. Peak and average amplitudes of frequencies above 1000 MHz were compared to the required limits with worst-case data presented below. Test procedures of ANSI C63.10-2013 were used during testing. No other significant emission was observed which fell into the restricted bands of operation. Computed emission values consider the received radiated field strength, receive antenna correction factor, amplifier gain stage, and test system cable losses.

**Table 1 Radiated Emissions in Restricted Frequency Bands Data Mode 1, BT BLE**

Frequency in MHz	Horizontal Peak (dBμV/m)	Horizontal Average (dBμV/m)	Vertical Peak (dBμV/m)	Vertical Average (dBμV/m)	Limit @ 3m (dBμV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2390.0	51.0	36.6	49.9	36.6	54.0	-17.4	-17.4
2483.5	51.4	37.8	51.2	37.6	54.0	-16.2	-16.4
4804.0	50.9	37.4	52.3	40.4	54.0	-16.6	-13.6
4884.0	52.2	39.5	50.7	37.4	54.0	-14.5	-16.6
4960.0	52.2	38.9	53.2	41.6	54.0	-15.1	-12.4
7206.0	53.5	40.3	54.3	40.4	54.0	-13.7	-13.6
7326.0	54.6	41.3	53.8	40.5	54.0	-12.7	-13.5
7440.0	54.6	41.4	53.8	40.3	54.0	-12.6	-13.7
12010.0	59.7	46.3	59.5	46.2	54.0	-7.7	-7.8
12210.0	61.4	47.1	61.2	47.2	54.0	-6.9	-6.8
12400.0	60.7	47.2	61.1	47.2	54.0	-6.8	-6.8

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

### **Summary of Results for Radiated Emissions in Restricted Bands**

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Part 15C and RSS-247 Issue 3 Intentional Radiator requirements. The EUT demonstrated a worst-case minimum margin of -6.8 dB below the emissions requirements in restricted frequency bands. Peak, Quasi-peak, and average amplitudes were checked for compliance with the regulations. Worst-case emissions are reported with other emissions found in the restricted frequency bands at least 20 dB below the requirements.

## AC Line Conducted EMI Procedure

The design operates from Direct Current power only and offers no provision to interface with Utility AC Power systems. Therefore, No AC Line conducted emissions testing was required or preformed.

## General Radiated Emissions Procedure

Testing for the radiated emissions were performed as specified in CFR47 15B, RSS-GEN, and directed in ANSI C63.4-2014. For testing purposes, the EUT was arranged as presented in the applicable configuration diagrams above and operated through all modes as presented.

Exploratory radiated emissions measurements were performed in the SAC chamber or screen room, finding maximized emissions over frequency, EUT orientation, antenna height and polarity. This data is then used to focus the final radiated emissions measurements on these maximized points.

Final radiated emissions data were taken with the EUT located in the OATS or SAC at distance of 3 meters between the EUT and the receiving antenna. The frequency spectrum from 9 kHz to 6,000 MHz was searched for radiated emissions. Measured emission levels were maximized by EUT placement on the table, changing cable location, rotating the turntable through 360 degrees, varying the antenna height between 1 and 4 meters above the ground plane and changing antenna position between horizontal and vertical polarization. Antennas used were Loop, Biconical, Broadband Biconilog, Log Periodic, and Double Ridge or Pyramidal Horns and mixers above 1 GHz.

Refer to tables two and three for general radiated emissions data and figures one through four for plots of the worst case radiated emissions taken in the SAC (30 MHz to 1 GHz) and screen room (1 to 6 GHz).

**Table 2 General Radiated Emissions Data – Worst Case (Horizontal Polarization)**

Frequency (MHz)	Peak (dBμV/m)	Quasi-Peak (dBμV/m)	Limit @ 3m (dBμV/m)	Margin (dBm)
30.0	36.4	25.9	40	-14.1
60.7	20.6	12.7	40	-27.3
108.0	32.0	27.1	40	-13.0
399.8	32.7	23.4	47	-23.6
881.8	40.9	32.4	47	-14.6
941.0	41.4	33.6	47	-13.4

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

**Table 3 General Radiated Emissions Data – Worst Case (Vertical Polarization)**

Frequency (MHz)	Peak (dBμV/m)	Quasi-Peak (dBμV/m)	Limit @ 3m (dBμV/m)	Margin (dBm)
30.1	24.4	16.7	40	-23.4
60.8	30.4	24.1	40	-15.9
107.5	37.3	33.9	40	-6.1
840.0	30.5	22.0	47	-25.0
984.1	32.3	24.2	47	-22.9
30.1	24.4	16.7	40	-23.4

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

## Figure 1 Plot of General Radiated Emissions – Horizontal Polarization

ETS - Lindgren

Radiated Emissions, 30 MHz - 1 GHz

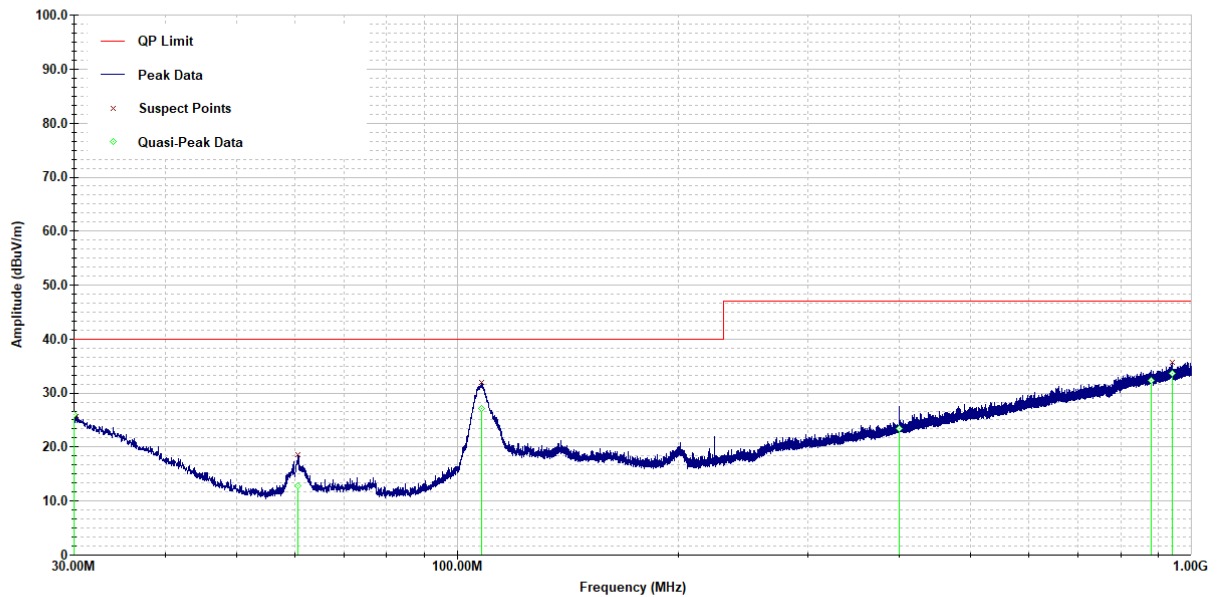
Horizontal Graph

Model # - Wearable Sensor Pack

Serial # - n/a

Test Mode - operating

Operator - jc



test run 1 operating

Limit = CISPR 32 Class B

## Figure 2 Plot of General Radiated Emissions – Vertical Polarization

ETS - Lindgren

Radiated Emissions, 30 MHz- 1 GHz

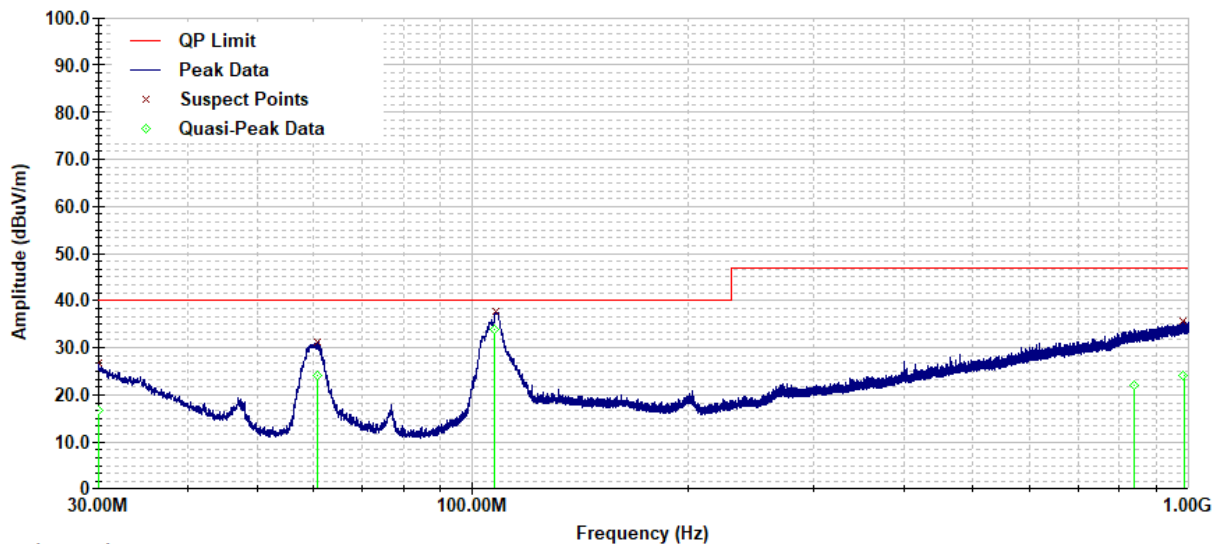
Vertical Graph

Model # - Wearable Sensor Pack

Serial # - n/a

Test Mode - operating

Operator - jc



test run 1 operating

Limit = CISPR 32 Class B

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Phone/Fax: (913) 660-0666

Revision 2

Test: 250120

FCC ID: 2BNHH01 IC: 33491-01

Test to: 47CFR 15C, RSS-Gen RSS-247

File: VitalPro-01 DTS TstRpt 250120 r2

HVIN: VitalPro-01

Tyme Wear, Inc.

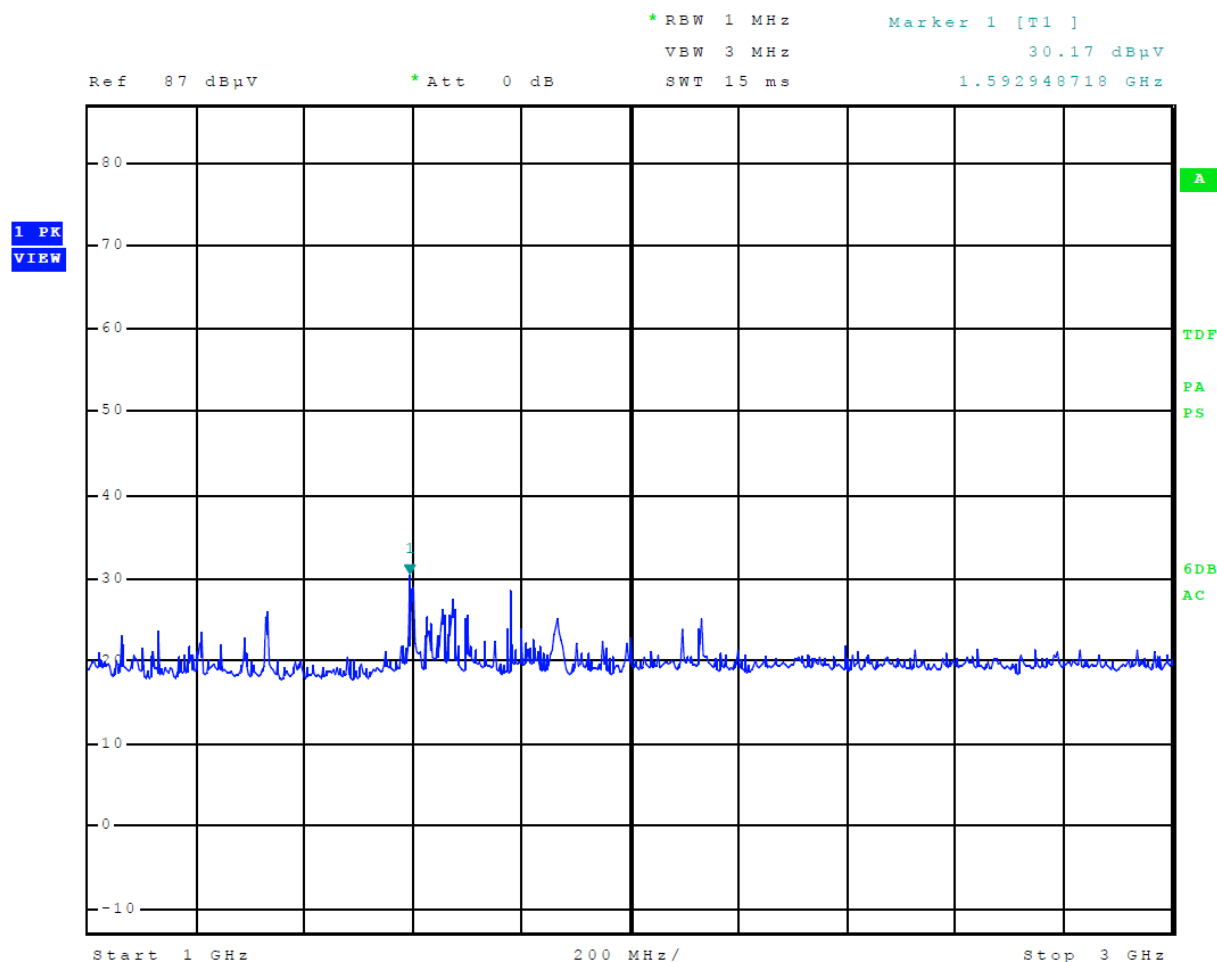
PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 22 of 38

**Figure 3 Plot of General Radiated Emissions 1 GHz – 3 GHz**



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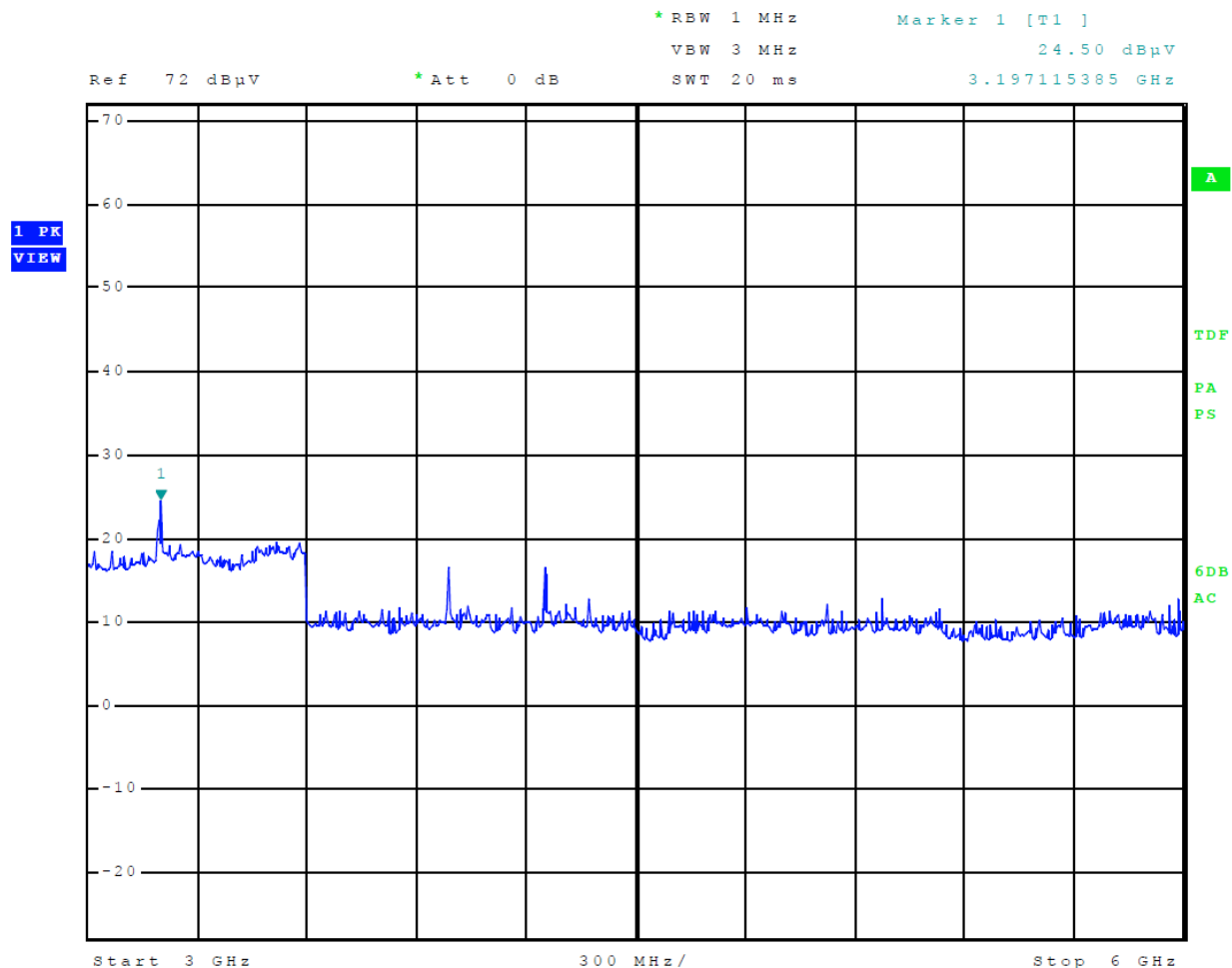
PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 23 of 38

**Figure 4 Plot of General Radiated Emissions 1 GHz – 6 GHz**



### **Summary of Results for General Radiated Emissions**

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Part 15C paragraph 15.209, RSS-247 Issue 3, and RSS-GEN Issue 5 Intentional Radiators. The EUT configuration demonstrated a minimum margin of -6.1 dB below the requirements. Other emissions were present with amplitudes at least 20 dB below the Limits.

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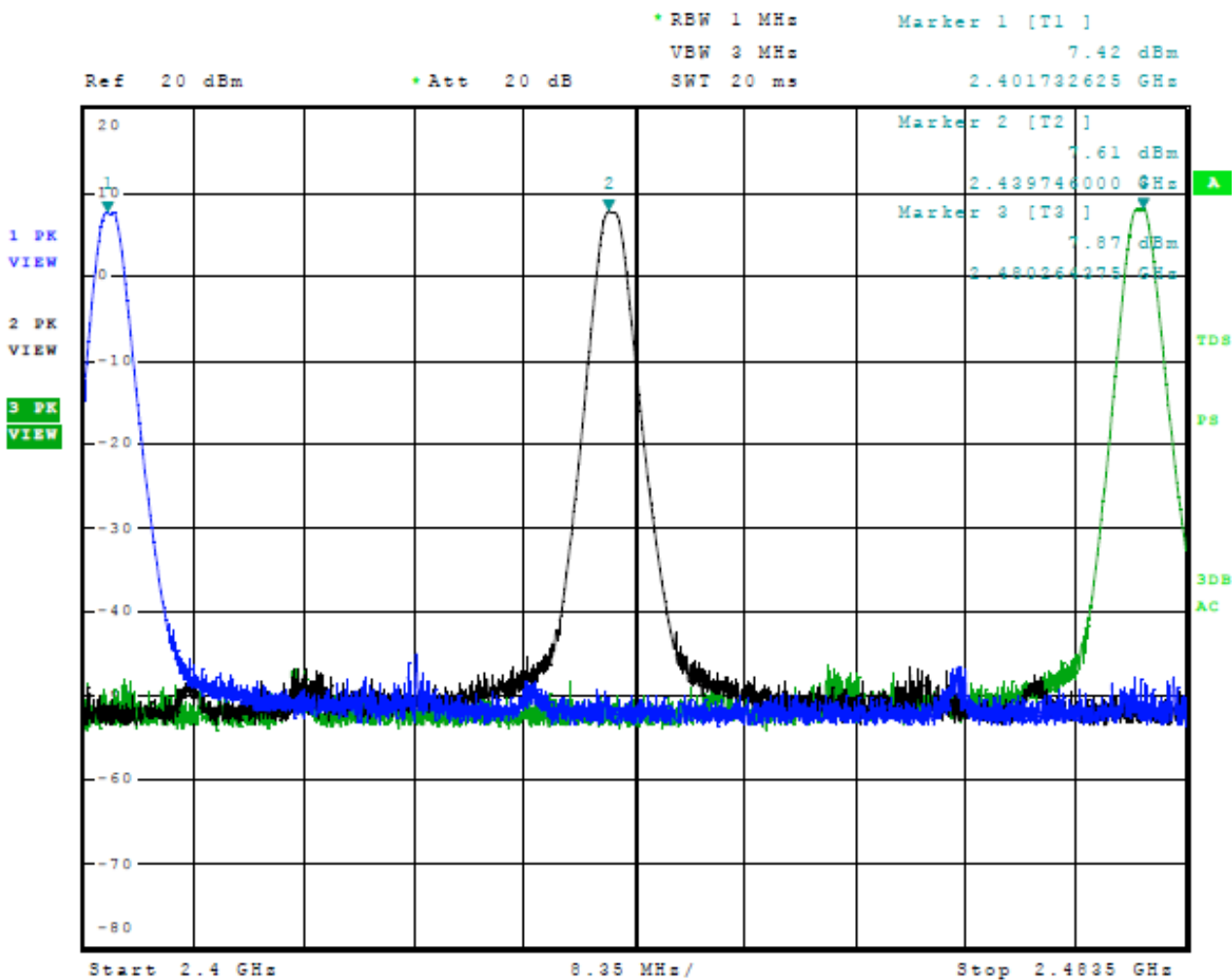
Page 24 of 38



## Operation in the Band 2400 – 2483.5 MHz

Test procedures of ANSI C63.10-2013 paragraph 6, and KDB 558074 were used during transmitter testing. Test sample EUT Antenna Port Conducted #2 was provided for testing antenna port conducted emissions. This sample was modified by replacing the internal antenna with a 50-ohm antenna port connector and attenuator for testing purposes. The transmitter peak and average power was measured at the antenna port using a wideband RF power meter as described in KDB 558074 and ANSI C63.10-2013. Average power measured did not include any time intervals during which the transmitter was off or transmitting at a reduced power level. The peak Power Spectral Density (PKPSD) was measured as defined in KDB 558074 and ANSI C63.10-2013. DTS Emission bandwidth was measured as described in KDB 558074 and ANSI C63.10-2013. The amplitude of each harmonic and general radiated emission was measured on the SAC at distance of 3 meters from the FSM antenna (radiated emission testing was performed on EUT Radiated #1 representative of production equipment with integral antenna). The EUT was positioned on supporting turntable elevated as required above the ground plane, at a distance of 3 meters from the FSM antenna. Radiated emission investigations were performed from 9 kHz to 25,000 MHz. Each radiated emission was maximized by varying the FSM antenna height and polarization, and by rotating the turntable. The worst-case amplitude of each emission was then recorded from the analyzer display. The peak and quasi-peak amplitude of frequencies below 1000 MHz were measured using a spectrum analyzer. The peak and average amplitude of frequencies above 1000 MHz were measured using a spectrum analyzer. A Loop antenna was used for measuring emissions from 0.009 to 30 MHz, Biconilog Antenna for 30 to 1000 MHz, Double-Ridge, and/or Pyramidal Horn Antennas from 1 GHz to 25 GHz. Radiated Emissions were measured in dBμV/m @ 3 meters. Plots were taken of transmitter performance (using EUT Antenna Port Conducted #2) for reference in this and other documentation. These are shown in figures five through twenty-eight.

**Figure 5 Plot of Transmitter Operation in 2402-2480 MHz Mode 1, BT BLE**



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File: VitalPro-01 DTS TstRpt 250120 r2

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Tyme Wear, Inc.

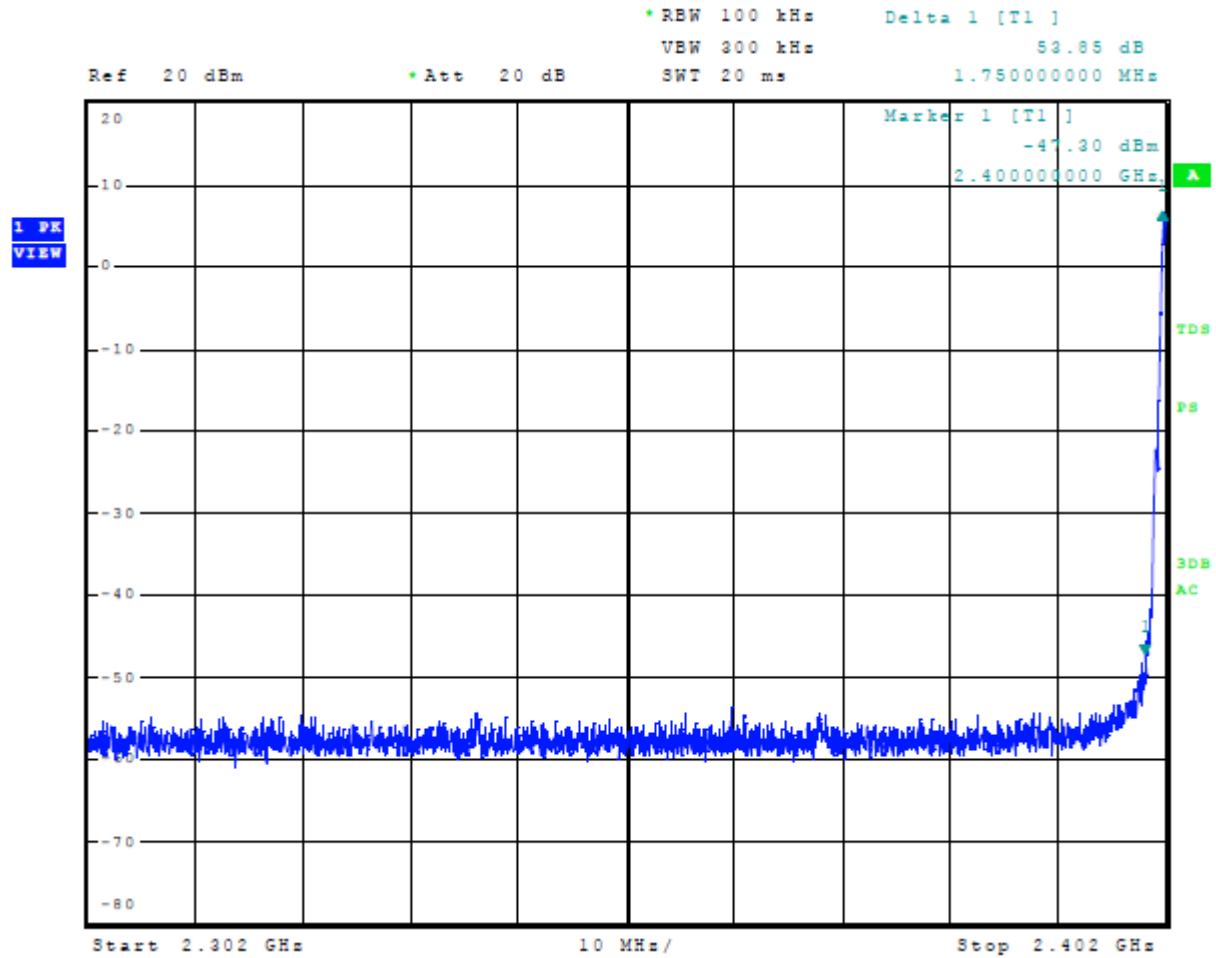
PMN: VitalPro

SN's: N/A

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Page 26 of 38

**Figure 6 Plot of Emissions Low Band Edge Mode 1, BT BLE**



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Test to: 47CFR 15C, RSS-Gen RSS-247

File: VitalPro-01 DTS TstRpt 250120 r2

HVIN: VitalPro-01

Tyme Wear, Inc.

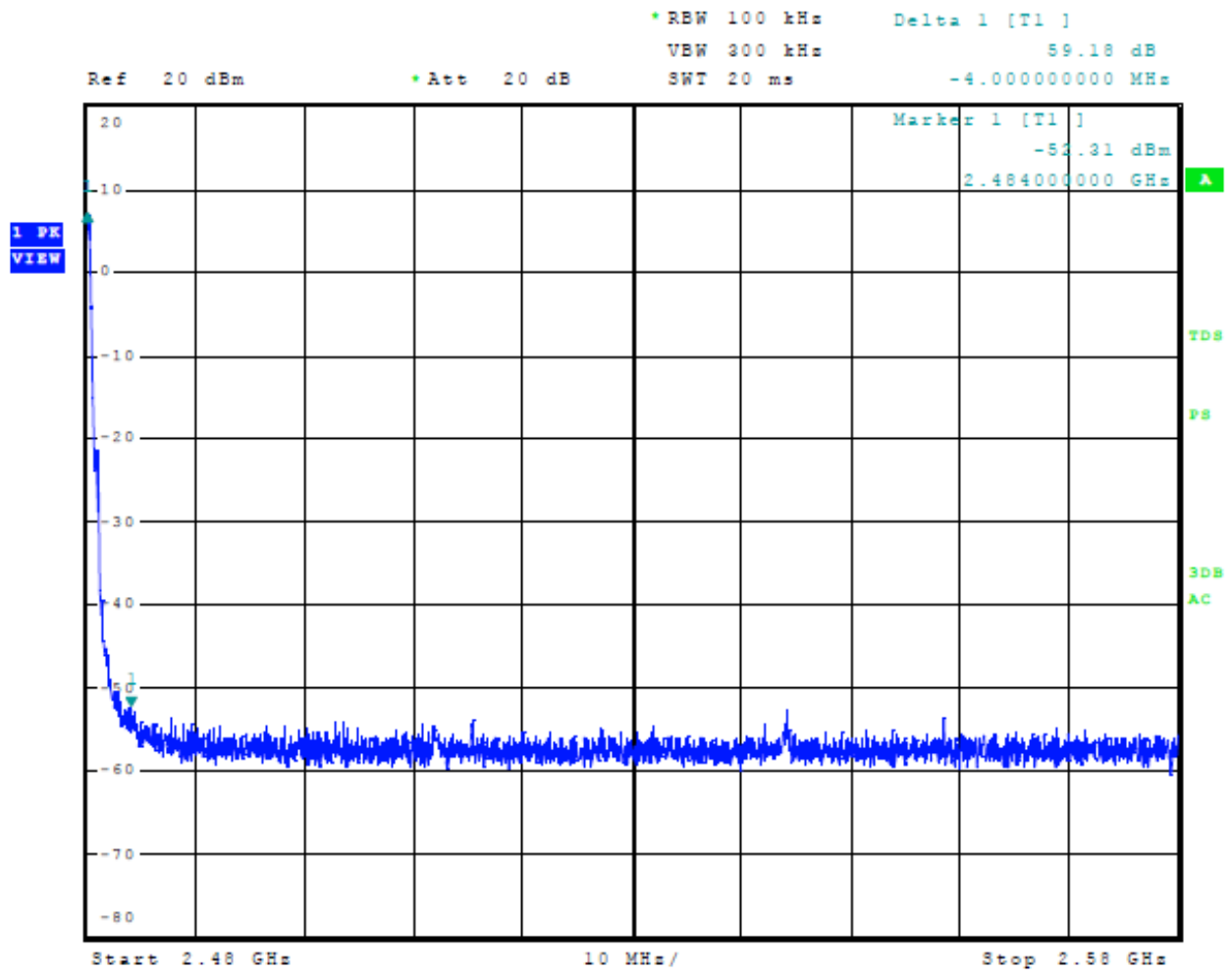
PMN: VitalPro

SN's: N/A

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Page 27 of 38

**Figure 7 Plot of Transmitter Emissions High Band Edge Mode 1, BT BLE**



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File: VitalPro-01 DTS TstRpt 250120 r2

HVIN: VitalPro-01

Tyme Wear, Inc.

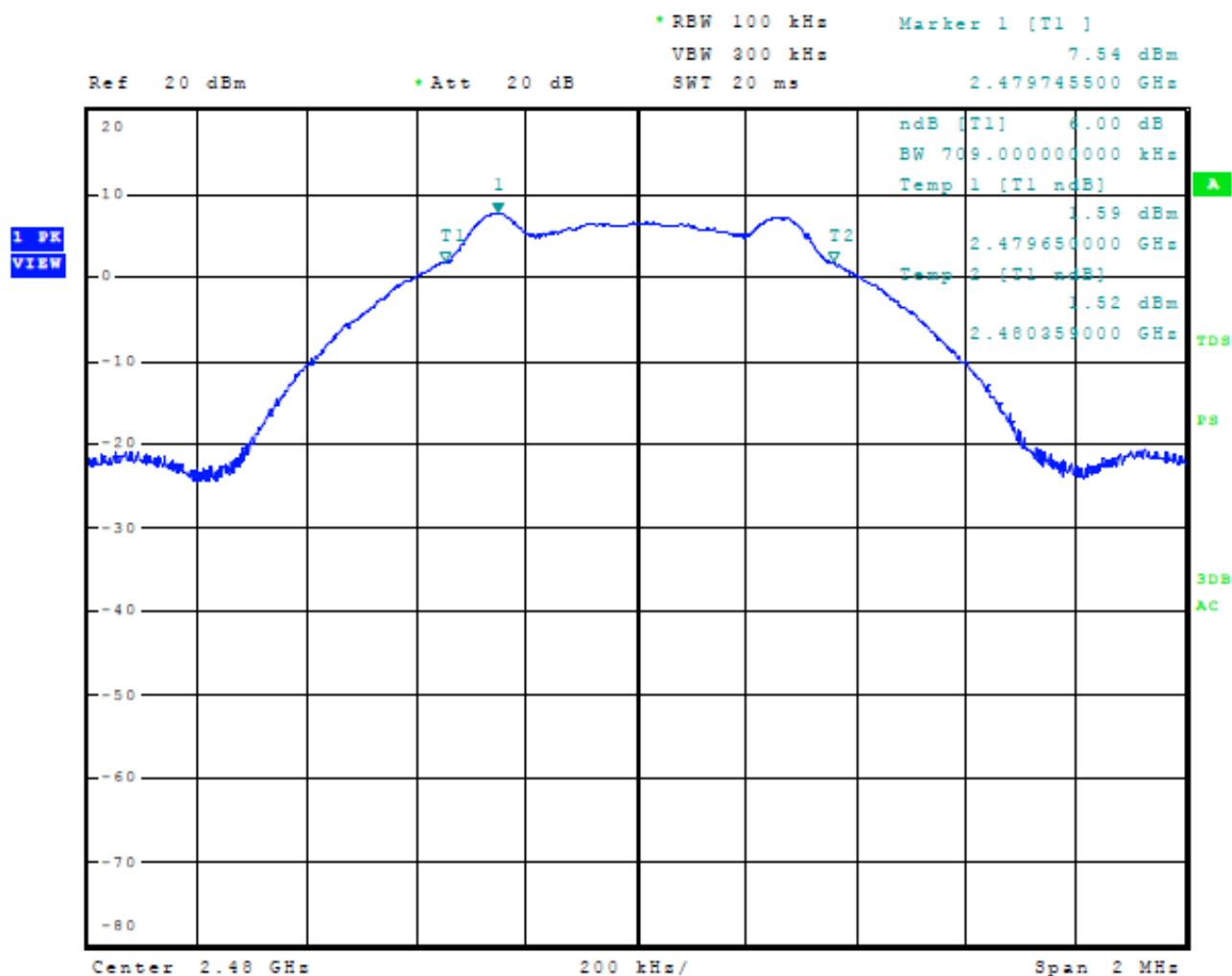
PMN: VitalPro

SN's: N/A

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Page 28 of 38

**Figure 8 Plot of 6-dB Occupied Bandwidth Mode 1, BT BLE**



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HVIN: VitalPro-01

Tyme Wear, Inc.

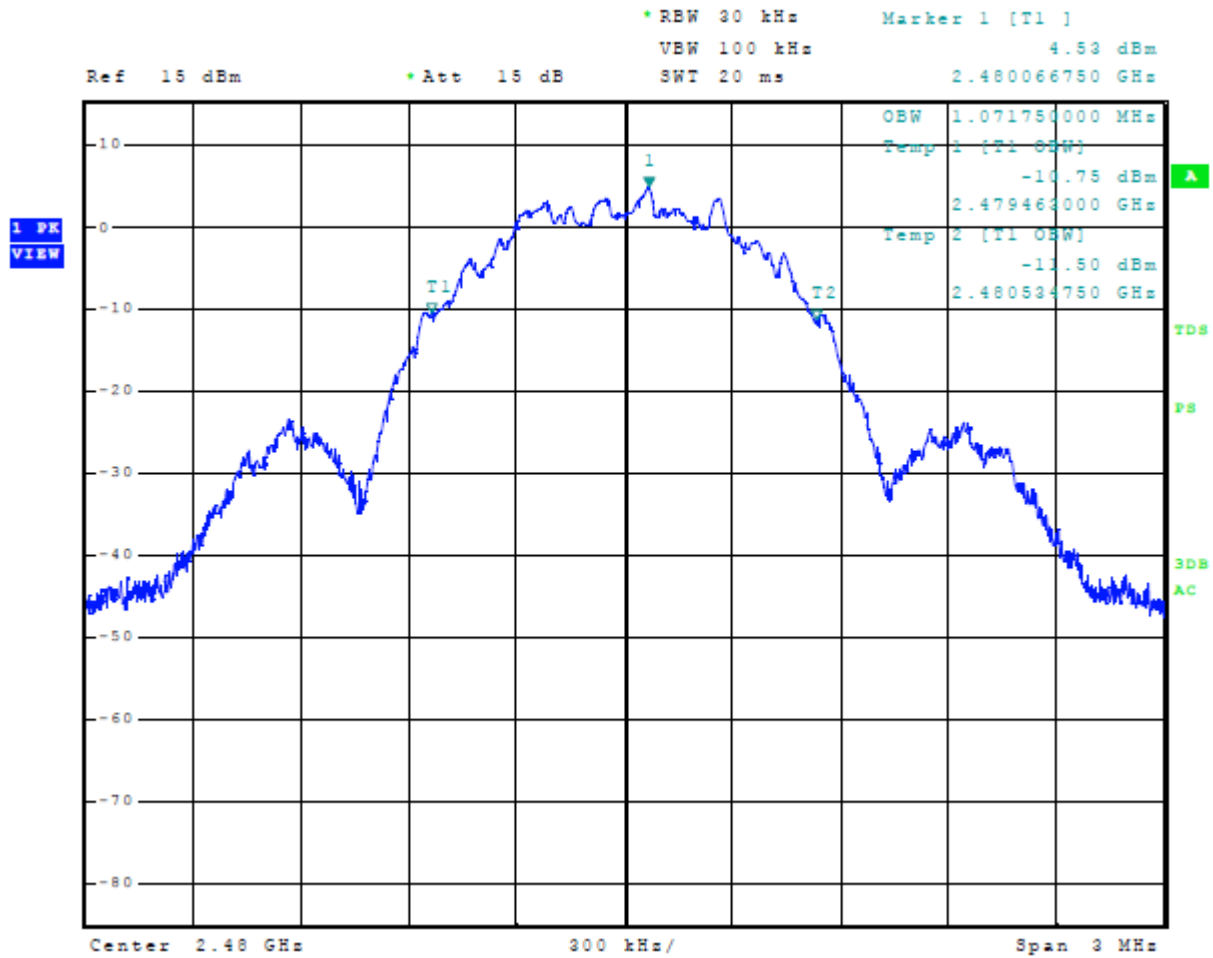
PMN: VitalPro

SN's: N/A

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Page 29 of 38

**Figure 9 Plot of 99% Occupied Bandwidth Mode 1, BT BLE**



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Test to: 47CFR 15C, RSS-Gen RSS-247

File: VitalPro-01 DTS TstRpt 250120 r2

HVIN:VitalPro-01

Tyme Wear, Inc.

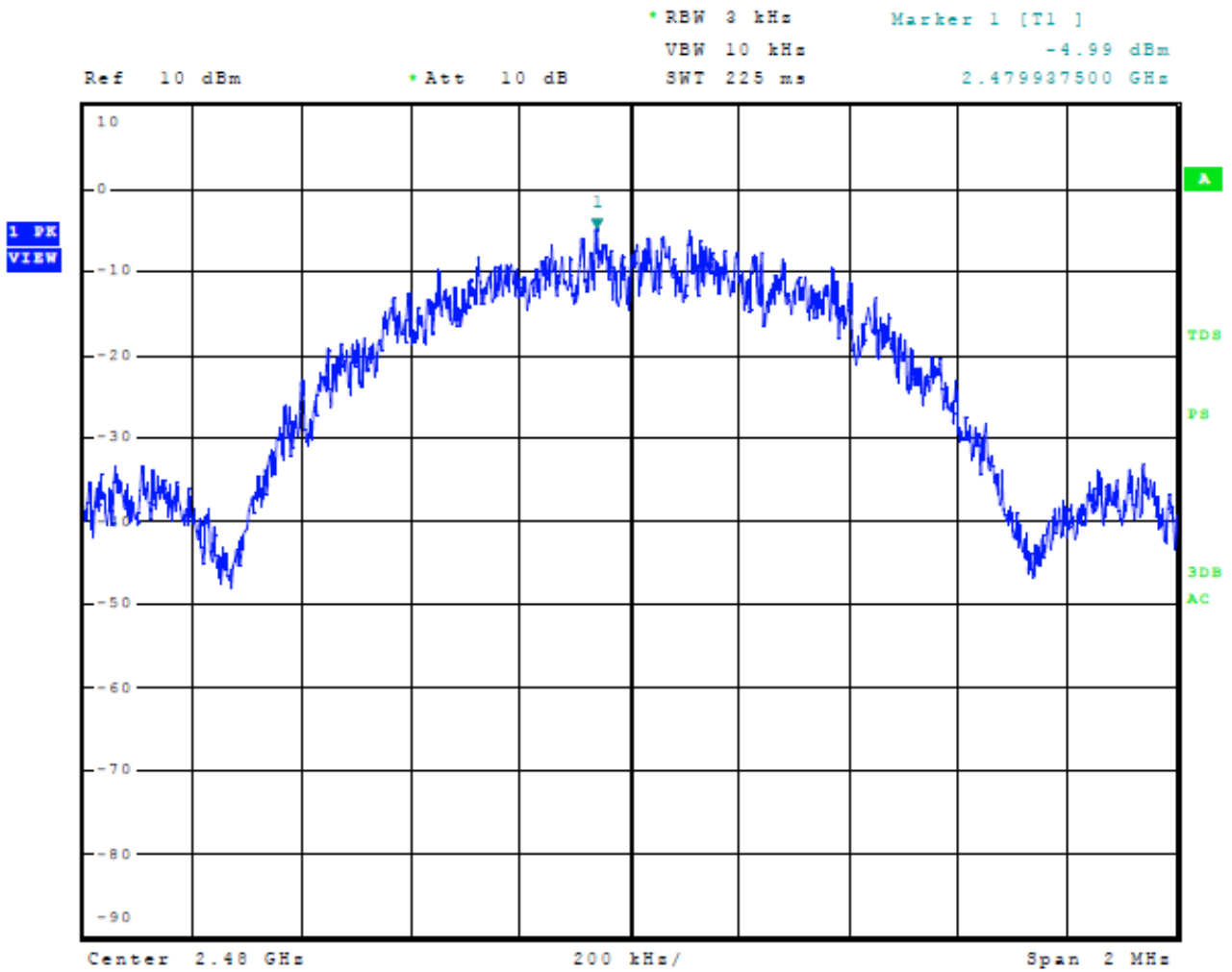
PMN: VitalPro

SN's: N/A

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Page 30 of 38

**Figure 10 Plot of Transmitter Power Spectral Density Mode 1, BT BLE**



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Test to: 47CFR 15C, RSS-Gen RSS-247

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HVIN: VitalPro-01

Tyme Wear, Inc.

PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 31 of 38

## Transmitter Emissions Data

**Table 4 Transmitter Radiated Emissions Mode 1, BT BLE**

Frequency in MHz	Horizontal Peak (dBμV/m)	Horizontal Average (dBμV/m)	Vertical Peak (dBμV/m)	Vertical Average (dBμV/m)	Limit @ 3m (dBμV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2402.0	--	--	--	--	--	--	--
4804.0	50.9	37.4	52.3	40.4	54.0	-16.6	-13.6
7206.0	53.5	40.3	54.3	40.4	54.0	-13.7	-13.6
9608.0	57.0	43.8	57.3	43.8	54.0	-10.2	-10.2
12010.0	59.7	46.3	59.5	46.2	54.0	-7.7	-7.8
14412.0	60.7	47.5	60.9	47.5	54.0	-6.5	-6.5
16814.0	66.2	52.5	65.5	52.4	54.0	-1.5	-1.6
2440.0	--	--	--	--	--	--	--
4880.0	52.2	39.5	50.7	37.4	54.0	-14.5	-16.6
7320.0	54.6	41.3	53.8	40.5	54.0	-12.7	-13.5
9760.0	57.1	43.5	57.1	43.4	54.0	-10.5	-10.6
12200.0	61.4	47.1	61.2	47.2	54.0	-6.9	-6.8
14640.0	62.4	48.0	62.8	48.1	54.0	-6.0	-5.9
17080.0	65.3	51.6	65.6	51.6	54.0	-2.4	-2.4
2480.0	--	--	--	--	--	--	--
4960.0	52.2	38.9	53.2	41.6	54.0	-15.1	-12.4
7440.0	54.6	41.4	53.8	40.3	54.0	-12.6	-13.7
9920.0	57.4	44.1	57.8	44.1	54.0	-9.9	-9.9
12400.0	60.7	47.2	61.1	47.2	54.0	-6.8	-6.8
14880.0	61.8	48.3	61.5	48.3	54.0	-5.7	-5.7
17360.0	64.6	51.3	64.4	51.2	54.0	-2.7	-2.8

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

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Test to: 47CFR 15C, RSS-Gen RSS-247

File: VitalPro-01 DTS TstRpt 250120 r2

HVIN: VitalPro-01

Tyme Wear, Inc.

PMN: VitalPro

SN's: N/A

Date: April 16, 2025

Page 32 of 38



**Table 5 Transmitter Antenna Port Conducted Data mode 1**

Frequency MHz	Antenna Port Average Output Power (Watts)	99% Occupied Bandwidth (kHz)	6-dB Occupied Bandwidth (kHz)	Peak Power Spectral Density (dBm)
Mode 1, BT BLE				
2402	0.006	1,067.3	701.0	-6.8
2440	0.006	1,064.3	707.0	-5.2
2480	0.006	1,071.8	709.0	-5.0

**Summary of Results for Transmitter Radiated Emissions of Intentional Radiator**

The EUT demonstrated compliance with the radiated and conducted emission requirements of 47CFR Subpart 15C Paragraph 15.247, RSS-247 Issue 3 and RSS-GEN Issue 5 emission requirements for Digital Transmission Systems. The highest average output power measured at the antenna port for mode 1 was 0.006 Watts. The highest peak power spectral density measured at the antenna port for mode 1 presented a minimum margin of -13.0 dB below the requirements. The EUT demonstrated a minimum margin of -1.5 dB below the harmonic emissions requirements. There were no other significantly measurable emissions in the restricted bands other than those recorded in this report. Other emissions were present with amplitudes at least 20 dB below the requirements. There were no other deviations or exceptions to the requirements.

## Annex

- Annex A Measurement Uncertainty Calculations
- Annex B Test Equipment
- Annex C Laboratory Certificate of Accreditation

## Annex A Measurement Uncertainty Calculations

The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16–4. Result of measurement uncertainty calculations are recorded below. Component and process variability of production devices similar to those tested may result in additional deviations. The manufacturer has the sole responsibility of continued compliance.

Measurement	Expanded Measurement Uncertainty $U_{(lab)}$
3 Meter Horizontal 0.009-1000 MHz Measurements	4.16
3 Meter Vertical 0.009-1000 MHz Measurements	4.33
3 Meter Measurements 1-18 GHz	5.46
3 Meter Measurements 18-40 GHz	5.16
10 Meter Horizontal Measurements 0.009-1000 MHz	4.15
10 Meter Vertical Measurements 0.009-1000 MHz	4.32
AC Line Conducted	1.75
Antenna Port Conducted power	1.17
Frequency Stability	1.00E-11
Temperature	1.6°C
Humidity	3%

## Annex B Test Equipment

Equipment	Manufacturer	Model (SN)	Band	Cal Date(m/d/y)	Due
<input checked="" type="checkbox"/> LISN	FCC	FCC-LISN-50-25-10(1PA) (160611)	.15-30MHz	3/25/2024	3/25/2025
<input type="checkbox"/> LISN: Fischer Custom Communications Model:		FCC-LISN-50-16-2-08		3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(303073)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303069)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303070)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Belden	RG-58 (L1-CAT3-11509)	9kHz-30 MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Cable	Belden	RG-58 (L2-CAT3-11509)	9kHz-30 MHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Antenna	Com Power	AL-130 (121055)	.001-30 MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Antenna:	EMCO	6509	.001-30 MHz	9/16/2024	9/16/2026
<input checked="" type="checkbox"/> Antenna	ARA	BCD-235-B (169)	20-350MHz	9/16/2024	9/16/2025
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<input type="checkbox"/> Antenna	ETS-Lindgren	3147 (40582)	200-1000MHz	9/16/2024	9/16/2026
<input checked="" type="checkbox"/> Antenna	ETS-Lindgren	3117 (200389)	1-18 GHz	3/25/2024	3/25/2026
<input checked="" type="checkbox"/> Antenna	Com Power	AH-118 (10110)	1-18 GHz	9/16/2024	9/16/2026
<input checked="" type="checkbox"/> Antenna	Com Power	AH-1840 (101046)	18-40 GHz	3/27/2023	3/27/2025
<input checked="" type="checkbox"/> Analyzer	Rohde & Schwarz	ESU40 (100108)	20Hz-40GHz	7/8/2024	7/8/2025
<input checked="" type="checkbox"/> Analyzer	Rohde & Schwarz	ESW44 (101534)	20Hz-44GHz	1/21/2025	1/21/2026
<input type="checkbox"/> Analyzer	Rohde & Schwarz	FS-Z60, 90, 140, and 220	40GHz-220GHz	12/22/2017	12/22/2027
<input type="checkbox"/> Amplifier	Com-Power	PA-010 (171003)	100Hz-30MHz	9/16/2024	9/16/2025
<input type="checkbox"/> Amplifier	Com-Power	CPPA-102 (01254)	1-1000 MHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Amplifier	Com-Power	PAM-118A (551014)	0.5-18 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Amplifier	Com-Power	PAM-840A (461328)	18-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Pwr Sensor	Rohde & Schwarz	NRP33T	0.05-33 GHz	9/26/2023	9/26/2025
<input checked="" type="checkbox"/> Power meter	Agilent	N1911A with N1921A	0.05-40 GHz	3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Generator	Rohde & Schwarz	SMB100A6 (100150)	20Hz-6 GHz	3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Generator	Rohde & Schwarz	SMBV100A6 (260771)	20Hz-6 GHz	3/25/2024	3/25/2025
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<input type="checkbox"/> Attenuator	Fairview	SA6NFFNF100W-40 (1625)	30-18000 MHz	3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1436)	30-6000 MHz	3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1445)	30-6000 MHz	3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1735)	30-6000 MHz	3/25/2024	3/25/2025
<input checked="" type="checkbox"/> Attenuator	Mini-Circuits	VAT-6W2+ (1438)	30-6000 MHz	3/25/2024	3/25/2025
<input type="checkbox"/> Attenuator	Mini-Circuits	VAT-6W2+ (1736)	30-6000 MHz	3/25/2024	3/25/2025

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Tyme Wear, Inc.

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SN's: N/A

Date: April 16, 2025

Page 36 of 38

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model (SN)</u>	<u>Band</u>	<u>Cal Date(m/d/y)</u>	<u>Due</u>
<input type="checkbox"/> Frequency Counter: Leader		LDC-825 (8060153)		3/28/2023	3/28/2025
<input type="checkbox"/> ISN	Com-Power	Model ISN T-8 (600111)		3/25/2024	3/25/2025
<input type="checkbox"/> LISN	Compliance Design	FCC-LISN-2.Mod.cd,(126)	.15-30MHz	9/16/2024	9/16/2025
<input type="checkbox"/> LISN:	Com-Power	Model LI-220A		9/16/2024	9/16/2026
<input type="checkbox"/> LISN:	Com-Power	Model LI-550C		9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303072)	9kHz-40 GHz	9/16/2024	9/16/2025
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<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L4M)(281184)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(317546)	9kHz-40 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Time Microwave	4M-750HF290-750 (L4M)	9kHz-24 GHz	9/16/2024	9/16/2025
<input checked="" type="checkbox"/> Cable	Mini-Circuits	KBL-2M-LOW+ (23090329)	9kHz-40 GHz	3/25/2024	3/25/2025
<input type="checkbox"/> RF Filter	Micro-Tronics	BRC17663 (001)	9.3-9.5 notch 30-1800 MHz	3/28/2023	3/28/2025
<input type="checkbox"/> RF Filter	Micro-Tronics	BRC19565 (001)	9.2-9.6 notch 30-1800 MHz	3/28/2023	3/28/2025
<input checked="" type="checkbox"/> Analyzer	HP	8562A (3051A05950)	9kHz-125GHz	3/25/2024	3/25/2025
<input type="checkbox"/> Wave Form Generator Keysight		33500B (MY57400128)		3/25/2024	3/25/2025
<input type="checkbox"/> Antenna: Solar		9229-1 & 9230-1		2/5/2025	2/5/2026
<input type="checkbox"/> CDN: Com-Power		Model CDN325E		9/16/2024	9/16/2026
<input type="checkbox"/> Oscilloscope Scope: Tektronix		MDO 4104		2/5/2025	2/5/2026
<input type="checkbox"/> EMC Transient Generator HVT		TR 3000		2/5/2025	2/5/2026
<input type="checkbox"/> AC Power Source (Ametech, California Instruments)				2/5/2025	2/5/2026
<input checked="" type="checkbox"/> Field Intensity Meter: EFM-018				2/5/2025	2/5/2026
<input type="checkbox"/> ESD Simulator: MZ-15				2/5/2025	2/5/2026
<input checked="" type="checkbox"/> Weather station Davis		6152 (A70927D44N)		7/11/2024	7/11/2025
<input type="checkbox"/> Injection Clamp Luthi Model EM101				not required	
<input type="checkbox"/> R.F. Power Amp ACS 230-50W				not required	
<input type="checkbox"/> R.F. Power Amp EIN Model: A301				not required	
<input type="checkbox"/> R.F. Power Amp A.R. Model: 10W 1010M7				not required	
<input type="checkbox"/> R.F. Power Amp A.R. Model: 50U1000				not required	
<input checked="" type="checkbox"/> Temperature Chamber				not required	
<input checked="" type="checkbox"/> Shielded Room				not required	

## Annex C Laboratory Certificate of Accreditation

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP<sup>®</sup>** **ilac-MRA**

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**Certificate of Accreditation to ISO/IEC 17025:2017**

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NVLAP LAB CODE: 200087-0

**Rogers Labs, a division of The Compatibility Center LLC**  
Lenexa, KS

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**Electromagnetic Compatibility & Telecommunications**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2024-03-18 through 2025-03-31  
Effective Dates

   
For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP<sup>®</sup>** **ilac-MRA**

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2025-03-11 through 2026-03-31  
Effective Dates

   
For the National Voluntary Laboratory Accreditation Program

Rogers Labs, a division of The Compatibility Center LLC  
7915 Nieman Road  
Lenexa, KS 66214  
Phone/Fax: (913) 660-0666  
Revision 2

Test: 250120  
FCC ID: 2BNHH01  
Test to: 47CFR 15C, RSS-Gen RSS-247  
File: VitalPro-01 DTS TstRpt 250120 r2

Tyme Wear, Inc.  
PMN: VitalPro  
SN's: N/A  
Date: April 16, 2025  
Page 38 of 38