

# FCC RADIO TEST REPORT

# FCC ID: 2ATCB-VP822058

| Sample:           | Fitboard 4D Vibration Platform Exercise Machine |
|-------------------|---|
| Trade Name:       | Sunny Health & Fitness                          |
| Main Model:       | SF-VP822058                                     |
| Additional Model: | B0B9HVTGKN                                      |
| Report No.:       | UNIA22091318ER-61                               |

# **Prepared for**

Sunny Distributor Inc. DBA Sunny Health & Fitness 218 TURNBULL CANYON ROAD, CITY OF INDUSTRY, California, 91745, United States

# **Prepared by**

Shenzhen United Testing Technology Co., Ltd. 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, XixiangStr, Bao'an District, Shenzhen, China

# TEST RESULT CERTIFICATION

| Applicant           | Sunny Distributor Inc. DBA Sunny H  | lealth & Fitness        |
|---------------------|-------------------------------------|-------------------------|
| Address             | 218 TURNBULL CANYON ROAD,           | CITY OF INDUSTRY,       |
|                     | California, 91745, United States    |                         |
| Manufacturer        | Amoy YG Sports Technology Co., L    | .td.                    |
| Address             | Room 505, North of Chengye Build    | ing, Pioneer Park,Torch |
|                     | High-tech Zone, Xiamen, Fujian Pre  | ovince,361000,China.    |
| Factory             | Ningbo Jiufeng Electrical Appliance | Co.,Ltd.                |
| Address             | No.268 Binhai road,FengHua econ     | omic development zone,  |
|                     | Ningbo,Zhejiang,China               |                         |
| Product description |                                     |                         |
| Product             | Fitboard 4D Vibration Platform Exe  | rcise Machine           |
| Trade Name          | Sunny Health & Fitness              |                         |
| Model Name          | SF-VP822058, B0B9HVTGKN             |                         |
| Test Methods        | FCC Part 15 Subpart C 15.231        |                         |
|                     | ANSI C63.10: 2013                   |                         |

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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| Date (s) of performance of tests: | Sep. 13, 2022 ~ Oct. 09, 2022 |
|-----------------------------------|-------------------------------|
| Date of Issue:                    | Nov. 07, 2022                 |
| Test Result                       | Pass                          |

Prepared by:

Reviewer:

Approved & Authorized Signer:

Liuze/Manager

kahn.yang

Kahn yang/Supervisor

Kelly Cheng/Supervisor

Voure/

Mym

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# 1.1 TEST PROCEDURES AND RESULTS

| FCC Requirements                      |   |                   |  |  |
|---------------------------------------|---|-------------------|--|--|
| FCC Part 15.207                       | Conducted Emission                              | Not<br>applicable |  |  |
| FCC §15.231(a)(1)                     | PASS  |                   |  |  |
| FCC Part 15.231(b)                    | Electric Field Strength of Fundamental Emission | PASS              |  |  |
| FCC Part 15.205 &15.209&<br>15.231(b) | Electric Field Strength of Spurious Emission    | PASS              |  |  |
| FCC Part 15.231(c)                    | -20dB bandwidth                                 | PASS              |  |  |



Test Firm:Shenzhen United Testing Technology Co., Ltd.Address:2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Community, XixiangStr, Bao'an District, Shenzhen, China

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01 The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 21947

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

#### **1.3 MEASUREMENT UNCERTAINTY**

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

| Test Site | Method                 | Measurement Frequency Range | U, (dB) | NOTE |
|-----------|------------------------|-----------------------------|---------|------|
| UNI       | UNI ANSI 9kHz ~ 150kHz |                             | 2.96    |      |
|           | · ·                    | 150kHz ~ 30MHz              | 2.44    |      |

#### B. Radiated Measurement:

| Test Site | Method | Measurement Frequency Range | U, (dB) | NOTE |
|-----------|--------|-----------------------------|---------|------|
| UNI       | ANSI   | 9kHz ~ 30MHz                | 2.50    |      |
|           |        | 30MHz ~ 1000MHz             | 4.80    |      |
| 1         |        | 1000MHz ~ 18000MHz          | 4.13    |      |

# 2 GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

The following information of EUT submitted and identified by applicant:

| Fitboard 4D Vibration Platform Exercise Machine                 |  |  |
|---|--|--|
| Sunny Health & Fitness  |  |  |
| SF-VP822058   |  |  |
| B0B9HVTGKN  |  |  |
| All model's the function, software and electric circuit are the |  |  |
| same, only with a product color and model named different.      |  |  |
| Test sample model: SF-VP822058.                                 |  |  |
| 2ATCB-VP822058  |  |  |
| PCB Antenna   |  |  |
| OdBi  |  |  |
| 433.92MHz   |  |  |
| 1CH   |  |  |
| ASK   |  |  |
| CR2025  |  |  |
| DC 3V from CR2025   |  |  |
|   |  |  |

# 2.2 CARRIER FREQUENCY OF CHANNELS

| Channel | Frequency(MHz) |
|---------|----------------|
| 1, 1    | 433.92         |
|         |                |

## 2.3 OPARATION OF EUT DURING TESTING

New battery is used during all test Operating Mode The mode is used: Transmitting mode

#### 2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation testing:

Table for auxiliary equipment:

| Equipment Description | Manufacturer | Model | Calibration Due<br>Date |
|-----------------------|--------------|-------|-------------------------|
| N/A                   | N/A          | N/A   | N/A                     |

EUT

## 2.5 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

| Temperature            | Normal Temperature: | 26°C    |
|------------------------|---------------------|---------|
| Voltage Normal Voltage |                     | 3 V     |
|                        | Relative Humidity   | 55 %    |
| Other                  | Air Pressure        | 101 kPa |



# 2.6 MEASUREMENT INSTRUMENTS LIST

| Item | Equipment                              | Manufacturer   | Model No.         | Serial No.    | Calibrated until |
|------|--|----------------|-------------------|---------------|------------------|
|      | 5                                      | Radiated Emiss | sions Measurement | t             | -                |
| 1    | Radiated Emission<br>Test Software     | EZ-EMC         | Ver.CCS-03A1      | N/A           | N/A              |
| 2    | Horn Antenna                           | Sunol          | DRH-118           | A101415       | 2023.09.27       |
| 3    | Broadband Hybrid<br>Antenna            | Sunol          | JB1               | A090215       | 2024.02.26       |
| 4    | PREAMP                                 | HP             | 8449B             | 3008A00160    | 2023.09.22       |
| 5    | PREAMP                                 | HP             | 8447D             | 2944A07999    | 2023.05.30       |
| 6    | EMI TEST<br>RECEIVER                   | Rohde&Schwarz  | ESR3              | 101891        | 2023.09.22       |
| 7    | VECTOR Signal<br>Generator             | Rohde&Schwarz  | SMU200A           | 101521        | 2023.09.22       |
| 8    | Signal Generator                       | Agilent        | E4421B            | MY4335105     | 2023.09.22       |
| 9    | MXA Signal Analyzer                    | Agilent        | N9020A            | MY50510140    | 2023.09.22       |
| 10   | MXA Signal Analyzer                    | Keysight       | N9020A            | MY51110104    | 2023.09.22       |
| 11   | RF Power sensor                        | DARE           | RPR3006W          | 15100041SNO88 | 2023.05.30       |
| 12   | RF Power sensor                        | DARE           | RPR3006W          | 15100041SNO89 | 2023.05.30       |
| 13   | RF power divider                       | Anritsu        | K241B             | 992289        | 2023.09.22       |
| 14   | Wideband radio communication tester    | Rohde&Schwarz  | CMW500            | 154987        | 2023.09.22       |
| 15   | Active Loop Antenna                    | Com-Power      | AL-130R           | 10160009      | 2023.05.30       |
| 16   | Broadband Hybrid<br>Antennas           | Schwarzbeck    | VULB9163          | VULB9163#958  | 2023.09.22       |
| 17   | Horn Antenna                           | Schwarzbeck    | BBHA9120D         | 9120D-1680    | 2023.05.30       |
| 18   | Horn Antenna                           | A-INFOMW       | LB-180400-KF      | J211060660    | 2023.09.27       |
| 19   | Microwave<br>Broadband<br>Preamplifier | Schwarzbeck    | BBV 9721          | 100472        | 2023.09.22       |
| 20   | Signal Generator                       | Agilent        | N5183A            | MY47420153    | 2023.09.22       |
| 21   | Spctrum Analyzer                       | Rohde&Schwarz  | FSP 40            | 100501        | 2023.09.22       |
| 22   | Power Meter                            | KEYSIGHT       | N1911A            | MY50520168    | 2023.09.22       |
| 23   | Frequency Meter                        | VICTOR         | VC2000            | 997406086     | 2023.09.22       |
| 24   | DC Power Source                        | HYELEC         | HY5020E           | 055161818     | 2023.09.22       |

# 3 CONDUCTED EMISSIONS TEST

#### 3.1 Limit

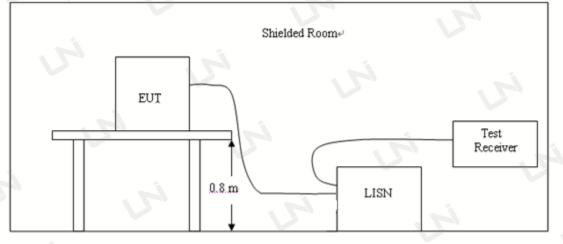
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

|                       | Limit (d   | BuV)      |
|-----------------------|------------|-----------|
| Frequency range (MHz) | Quasi-peak | Average   |
| 0.15-0.5              | 66 to 56*  | 56 to 46* |
| 0.5-5                 | 56         | 46        |
| 5-30                  | 60         | 50        |

Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

#### 3.2 Test Setup



#### 3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. A wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

#### 3.4 Test Result

N/A

Remark: The EUT is powered by DC 3V battery.



### 4 RADIATED EMISSION TEST

#### 4.1 Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency<br>(MHz) | Distance<br>(Meters) | Radiated<br>(dBµV/m) | Radiated<br>(µV/m) |
|--------------------|----------------------|----------------------|--------------------|
| 30-88              | 3                    | 40                   | 100                |
| 88-216             | 3                    | 43.5                 | 150                |
| 216-960            | 3                    | 46                   | 200                |
| Above 960          | 3                    | 54                   | 500                |

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

In addition to the provisions of 15.231(b) and RSS 210-A1.1.2, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

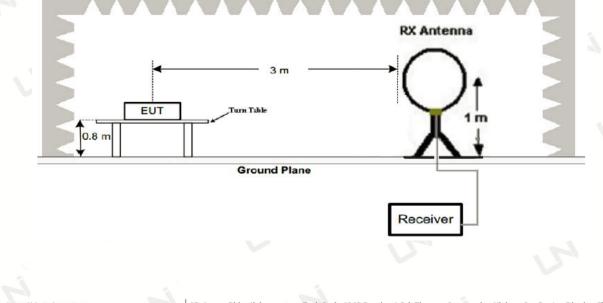
| Funda-<br>mental fre-<br>quency<br>(MHz) | Field strength of funda-<br>mental (microvolts/<br>meter) | Field strength of<br>spurious emissions<br>(microvolts/meter) |
|--|---|---|
| 40.66–<br>40.70.                         | 2,250   | 225   |
| 70–130                                   | 1,250   | 125   |
| 130-174                                  | <sup>1</sup> 1,250 to 3,750                               | <sup>1</sup> 125 to 375                                       |
| 174-260                                  | 3,750   | 375   |
| 260-470                                  | <sup>1</sup> 3,750 to 12,500                              | <sup>1</sup> 375 to 1,250                                     |
| Above 470                                | 12,500  | 1,250   |

#### <sup>1</sup> Linear interpolations.

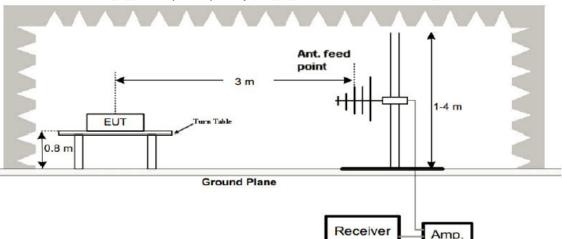
[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz,  $\mu$ V/m at 3 meters =41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

#### 4.2 Test Setup

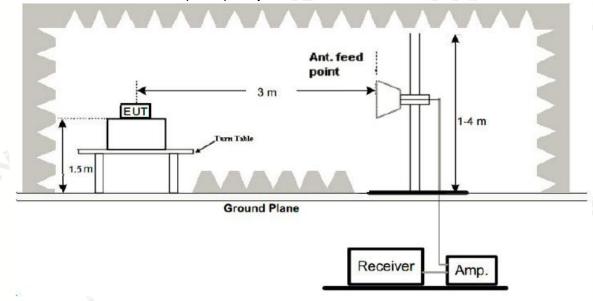
1. Radiated Emission Test-Up Frequency Below 30MHz



#### 2. Radiated Emission Test-Up Frequency 30MHz~1GHz



#### 3. Radiated Emission Test-Up Frequency Above 1GHz



#### 4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9kHz to 25GHz per FCC PART 15.33(a).

#### Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

#### 4.4 Test Result

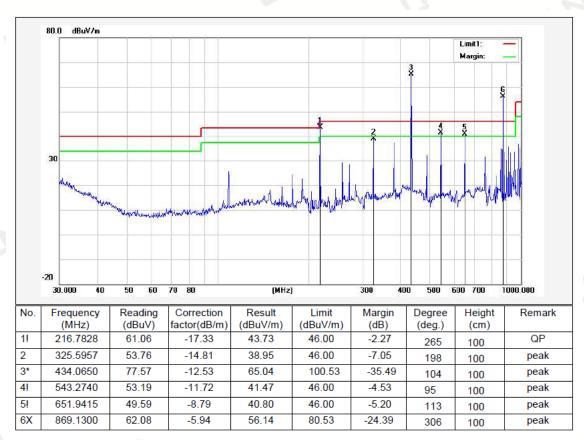
#### PASS

#### Remark:

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.
Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.

## Below 1GHz Test Results:

| Temperature:  | 24°C          | Relative Humidity: | 49%        |
|---------------|---------------|--------------------|------------|
| Test Date:    | Sep. 14, 2022 | Pressure:          | 1010hPa    |
| Test Voltage: | DC 3V         | Polarization:      | Horizontal |
| Test Mode:    | Normal work   | -i                 |            |



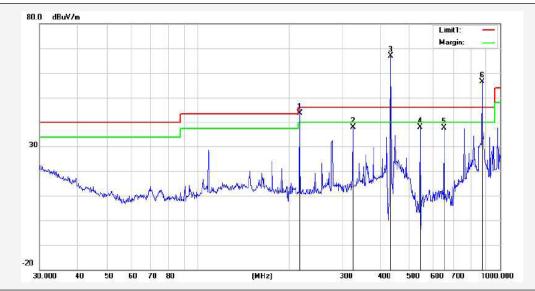
Remark: Result= Reading Level+ Factor, Margin= Result – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier

深圳市优耐检测技术有限公司 Shenzhen United Testing Technology Co., Ltd.

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| Temperature:  | 24°C          | Relative Humidity: | 49%      |
|---------------|---------------|--------------------|----------|
| Test Date:    | Sep. 14, 2022 | Pressure:          | 1010hPa  |
| Test Voltage: | DC 3V         | Polarization:      | Vertical |
| Test Mode:    | Normal work   | 5                  |          |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correction<br>factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(deg.) | Height<br>(cm) | Remark |
|-----|--------------------|-------------------|----------------------------|--------------------|-------------------|----------------|------------------|----------------|--------|
| 1!  | 216.7828           | 60.99             | -17.33                     | 43.66              | 46.00             | -2.34          | 96               | 100            | QP     |
| 2   | 325.5957           | 52.75             | -14.81                     | 37.94              | 46.00             | -8.06          | 108              | 100            | peak   |
| 3*  | 434.0650           | 79.48             | -12.53                     | 66.95              | 100.53            | -33.58         | 286              | 100            | peak   |
| 4   | 543.2740           | 49.49             | -11.72                     | 37.77              | 46.00             | -8.23          | 130              | 100            | peak   |
| 5   | 651.9415           | 46.33             | -8.79                      | 37.54              | 46.00             | -8.46          | 144              | 100            | peak   |
| 6X  | 869.1300           | 62.29             | -5.94                      | 56.35              | 80.53             | -24.18         | 309              | 100            | peak   |

Remark: Result = Reading Level+ Factor, Margin= Result – Limit Factor=Ant. Factor + Cable Loss – Pre-amplifier



| Frequency    | Reading<br>Result | Factor        | Emission Level     | Limits         | Margin      | Detector    |
|--------------|-------------------|---------------|--------------------|----------------|-------------|-------------|
| (MHz)        | (dBµV)            | (dB)          | (dBµV/m)           | (dBµV/m)       | (dB)        | Туре        |
| 1301.76      | 48.57             | -5.34         | 43.23              | 60.53          | -17.3       | PK          |
| 1735.68      | 48.87             | -5.02         | 43.85              | 60.53          | -16.68      | 🔪 РК        |
| 2169.6       | 50.14             | -4.76         | 45.38              | 60.53          | -15.15      | PK          |
| Remark: Fact | tor = Antenna     | Factor + Cabl | e Loss – Pre-ampli | ifier. Margin= | Emission Le | vel – Limit |

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Horizontal:

Vertical:

| Frequency    | Reading<br>Result | Factor        | Emission Level     | Limits        | Margin      | Detector    |
|--------------|-------------------|---------------|--------------------|---------------|-------------|-------------|
| (MHz)        | (dBµV)            | (dB)          | (dBµV/m)           | (dBµV/m)      | (dB)        | Туре        |
| 1301.76      | 48.04             | -5.34         | 42.7               | 60.53         | -17.83      | PK          |
| 1735.68      | 48.68             | -5.02         | 43.66              | 60.53         | -16.87      | PK          |
| 2169.6       | 50.05             | -4.76         | 45.29              | 60.53         | -15.24      | РК          |
| Remark: Fact | or = Antenna      | Factor + Cabl | e Loss – Pre-ampli | fier. Margin= | Emission Le | vel – Limit |

Note: 1. Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 5th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

2. The fundamental frequency is 433.92MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 433.92MHz.

3. Since the peak value is less than the average limit, the average value does not need to be tested.



# 5 -20db OCCUPIED BANDWIDTH

#### 5.1 Limit

According to 47 CFR 15.231(c) The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

#### 5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of

the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW=3RBW,

#### Span= 2\*OBW~5\*OBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

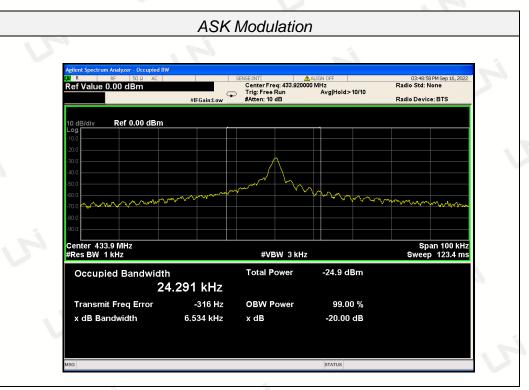
#### **5.3 Test Configuration**



#### 5.4 Test Result

#### PASS

| Modulation | Channel<br>Frequency<br>(MHz) | 99% OBW<br>(KHz) | 20dB<br>bandwidth<br>(KHz) | Limit<br>(KHz)      | Result |
|------------|-------------------------------|------------------|----------------------------|---------------------|--------|
| ASK        | 433.92                        | 24.291           | 6.534                      | 0.25%*433920=1084.8 | Pass   |



# LNi

## 6 DEACTIVATION TIME

#### 6.1 Limit

According to FCC §15.231(a)(1), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

#### 6.2 Test Procedure

- 1. The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum analyzer.
- 2. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz to encompass all significant spectral components during the test. The spectrum analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

#### 6.3 Test Configuration



#### 6.4 Test Results

| Frequency(MHz) | One transmission time(s) | Limit(s) | Result |
|----------------|--------------------------|----------|--------|
| 433.92         | 1.65                     | 5        | Pass   |

| R RF 50Ω AC   |                         | SENSE:INT                          | ALIGN OFF      | 04:06:35 PM Sep 16, 20                               |
|---|-------------------------|------------------------------------|----------------|--|
| larker 2 2.86000 s  | PNO: Fast<br>IFGain:Low | ⊷⊷. Trig: Free Run<br>Atten: 10 dB | Avg Type: Lo   | G-Pwr TRACE 1234<br>TYPE WWWW<br>DET NNNN            |
| 0 dB/div Ref 0.00 dBm   |                         |                                    |                | Mkr2 2.860<br>-32.73 dBi                             |
| 10.0  |                         |                                    |                |  |
| 20.0  | <u>م1</u>               |                                    | 2              |  |
| 80.0  |                         |                                    |                |  |
| 40.0  |                         |                                    |                |  |
| 50.0  |                         |                                    |                |  |
|   |                         |                                    |                |  |
| 0.0   |                         |                                    |                |  |
|   |                         |                                    |                |  |
| 80.0  |                         |                                    |                |  |
| 800   |                         |                                    |                | Span 0 H   |
| 700<br>200<br>Senter 433.920000 MHz<br>tes BW 1.0 MHz   | VI                      | BW 1.0 MHz                         |                | Span 0 -<br>Syan 0 -<br>Sweep 5.000 s (1001 pt       |
| 10.0<br>enter 433.920000 MHz<br>es BW 1.0 MHz<br>KR MODEL TRC SCL X   | Ĭ                       | Y FUNCTION                         |                | Span 0 H<br>Sweep 5.000 s (1001 pt<br>Function Value |
| 20.0<br>Senter 433.920000 MHz<br>Les BW 1.0 MHz<br>KR MODE TRC SCL X<br>1 N 1 t<br>2 N 1 t  | 1.210 s -32             |                                    |                | Sweep 5.000 s (1001 pt                               |
| 000<br>enter 433.920000 MHz<br>es BW 1.0 MHz<br>KR MODE TRC SCL ×<br>1 N 1 t<br>2 N 1 t<br>3 4  | 1.210 s -32             | FUNCTION                           | FUNCTION WIDTH | Sweep 5.000 s (1001 pt                               |
| 000     Image: second | 1.210 s -32             | FUNCTION                           | FUNCTION WIDTH | Sweep 5.000 s (1001 pt                               |
| 800     Image: senter 433,920000 MHz       ress BW 1.0 MHz     Image: senter 4.33,920000 MHz       1     N 1.0 MHz       1     N 1       2     N 1       3     Image: senter 4.33,920000 MHz       4     Image: senter 4.33,920000 MHz  | 1.210 s -32             | FUNCTION                           | FUNCTION WIDTH | Sweep 5.000 s (1001 pt                               |
| 800     Senter 433,920000 MHz       tess BW 1.0 MHz     tess BW 1.0 MHz       RR MODE TRC SCL     X       1     N     1     t       3     1     t     3       4     5     6     6       7     8     9     8   | 1.210 s -32             | FUNCTION                           | FUNCTION WIDTH | Sweep 5.000 s (1001 pt                               |
| 000   | 1.210 s -32             | FUNCTION                           | FUNCTION WIDTH | Sweep 5.000 s (1001 pt                               |

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# 7 CALCULATION OF AVERAGE FACTOR

The output field strengths of specification in accordance with the FCC rules specify measurements with an average detector. During the test, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The duty cycle is measured in 200 ms or the repetition cycle period, whichever is a shorter time frame. The duty cycle is measured by placing the spectrum analyzer to set zero span at 100kHz resolution bandwidth. Averaging factor in dB =20log (duty cycle)

#### 7.1 Test Results

N/A(Since the peak value is less than the average limit, the average value does not need to be tested)



## 8 ANTENNA REQUIREMENT

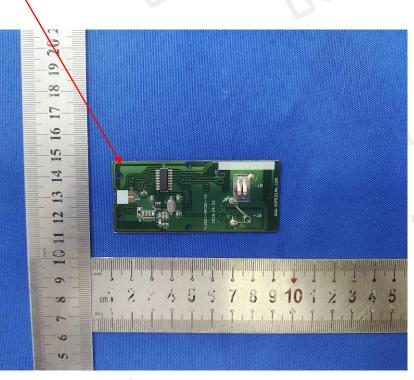
#### Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### Antenna Connected Construction

The antenna used in this product is a PCB antenna, the directional gains of antenna used for transmitting is 0dBi. It is permanently fixed and cannot be disassembled.

ANTENNA:



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# 9 PHOTOGRAPH OF TEST

**Radiated Emission** 





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