



# TEST REPORT



**Report No.** .....: **CHTEW1912017102R1** Report verification :  
**Project No.** .....: **SHT2003100601EW**  
**FCC ID**.....: **2AVGZWF-1V**  
**Applicant's name**.....: **WireFree Ultrasound, LLC**  
**Address**.....: 1400 112th Ave SE, Suite 100, Bellevue, WA 98004, USA  
**Test item description** .....: **Veterinarian Pocket Ultrasound System**  
**Trade Mark** .....:  Wirefree  
**Model/Type reference**.....: WF-1v  
**Listed Model(s)** .....: C5-2v, C5-2Sv, L11-4v, L11-4Sv, E10-4v, C8-5v, L10-4v  
**Standard** .....: **47 CFR FCC Part 15 Subpart B**  
**Date of receipt of test sample**.....: Mar. 31, 2020  
**Date of testing**.....: Apr. 01, 2020- Jan. 29, 2021  
**Date of issue**.....: Feb. 01, 2021  
**Result**.....: **Pass**

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*The test report merely corresponds to the test sample.*

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## 1. TEST STANDARDS AND REPORT VERSION

### 1.1. Test Standards

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#) - Unintentional Radiators

[ANSI C63.4: 2014](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

### 1.2. Report version information

| Revision No. | Date of issue | Description                                                                                                                                  |
|--------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| N/A          | 2019-12-25    | Original                                                                                                                                     |
| R1           | 2021-02-01    | Add a probe, a list model, make difference test on Conducted Emission and Radiated Emission, others are the same as report No. CHTEW19120173 |
|              |               |                                                                                                                                              |
|              |               |                                                                                                                                              |
|              |               |                                                                                                                                              |

## 2. TEST DESCRIPTION

| Test Item           | Section in CFR 47 | Result | Test Engineer |
|---------------------|-------------------|--------|---------------|
| Conducted Emissions | 15.107(a)         | PASS   | Jianquan Wu   |
| Radiated Emissions  | 15.109(a)         | PASS   | Pan Xie       |

Note: The measurement uncertainty is not included in the test result.

### 3. SUMMARY

#### 3.1. Client Information

|               |                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------|
| Applicant:    | WireFree Ultrasound, LLC                                                                               |
| Address:      | 1400 112th Ave SE, Suite 100, Bellevue, WA 98004, USA                                                  |
| Manufacturer: | WuHan Youkey Bio-Medical Electronics Co., Ltd.                                                         |
| Address:      | 2nd Floor, Dingxin Industry Park, Jiayuan Road, East Lake Development Zone, 430074, Wuhan, P. R. China |

#### 3.2. Product Description

|                      |                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------|
| Name of EUT:         | Veterinarian Pocket Ultrasound System                                                                                |
| Trade Mark:          |  Wirefree                           |
| Model No.:           | WF-1v                                                                                                                |
| Listed Model(s)      | C5-2v, C5-2Sv, L11-4v, L11-4Sv, E10-4v, C8-5v, L10-4v                                                                |
| Power supply:        | DC 7.4V                                                                                                              |
| Adapter information: | Model:GS-551<br>Input:110-240Va.c., 50/60Hz 0.6A Max<br>Output:5Vd.c., 3A max or 9Vd.c., 2A max or 12Vd.c., 1.5A max |

#### 3.3. EUT operation mode

| Test mode             | Describe                                                                 |
|-----------------------|--------------------------------------------------------------------------|
| USB data transmission | The EUT works at data transmission with tablet PC via USB cable status . |
| Charging mode         | The EUT works at charging by AC adapter status.                          |

Pre-scan both of USB data transmission and charging mode. Only show the worst case on the report.

#### 3.4. Configuration of Tested System

N/A.

#### 3.5. Support unit used in test configuration

| Item | Equipment | Manufacturer | Model No. | CMIIT ID   |
|------|-----------|--------------|-----------|------------|
| 1    | Tablet PC | Lenovo       | YT-X703F  | 2016AJ3408 |
| 2    | Tablet PC | SAMSUNG      | SM-T510   | 2019AP3018 |

## 4. TEST ENVIRONMENT

### 4.1. Testing Laboratory Information

|                      |                                                                                                                                                       |                      |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Laboratory Name      | Shenzhen Huatongwei International Inspection Co., Ltd.                                                                                                |                      |
| Laboratory Location  | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China                                                          |                      |
| Connect information: | Tel: 86-755-26715499<br>E-mail: <a href="mailto:cs@szhtw.com.cn">cs@szhtw.com.cn</a><br><a href="http://www.szhtw.com.cn">http://www.szhtw.com.cn</a> |                      |
| Qualifications       | Type                                                                                                                                                  | Accreditation Number |
|                      | FCC                                                                                                                                                   | 762235               |

### 4.2. Environmental conditions

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

|                    |             |
|--------------------|-------------|
| Temperature:       | 15~35°C     |
| Relative Humidity: | 30~60 %     |
| Air Pressure:      | 950~1050mba |

### 4.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

| Test                  | Range      | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emissions    | 30~1000MHz | 4.90 dB                 | (1)   |
| Radiated Emissions    | 1~18GHz    | 4.96 dB                 | (1)   |
| Conducted Disturbance | 0.15~30MHz | 3.02 dB                 | (1)   |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

#### 4.4. Equipments Used during the Test

| ● Conducted Emission |                     |                    |               |                |               |                           |                           |
|----------------------|---------------------|--------------------|---------------|----------------|---------------|---------------------------|---------------------------|
| Used                 | Test Equipment      | Manufacturer       | Equipment No. | Model No.      | Serial No.    | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ●                    | Shielded Room       | Albatross projects | HTWE0114      | N/A            | N/A           | 2018/09/28                | 2023/09/27                |
| ●                    | EMI Test Receiver   | R&S                | HTWE0111      | ESCI           | 101247        | 2020/10/19                | 2021/10/18                |
| ●                    | Artificial Mains    | SCHWARZBECK        | HTWE0113      | NNLK 8121      | 573           | 2020/10/15                | 2021/10/14                |
| ●                    | Pulse Limiter       | R&S                | HTWE0033      | ESH3-Z2        | 100499        | 2020/10/15                | 2021/10/14                |
| ●                    | RF Connection Cable | HUBER+SUHNER       | HTWE0113-02   | ENVIROFLEX 142 | EF-NM-BNCM-2M | 2020/10/15                | 2021/10/14                |
| ●                    | Test Software       | R&S                | N/A           | ES-K1          | N/A           | N/A                       | N/A                       |

| ● Radiated Emission-6th test site |                         |                    |               |             |            |                           |                           |
|-----------------------------------|-------------------------|--------------------|---------------|-------------|------------|---------------------------|---------------------------|
| Used                              | Test Equipment          | Manufacturer       | Equipment No. | Model No.   | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ●                                 | Semi-Anechoic Chamber   | Albatross projects | HTWE0127      | SAC-3m-02   | C11121     | 2018/09/30                | 2021/09/29                |
| ●                                 | EMI Test Receiver       | R&S                | HTWE0099      | ESCI        | 100900     | 2020/10/19                | 2021/10/18                |
| ●                                 | Ultra-Broadband Antenna | SCHWARZBECK        | HTWE0119      | VULB9163    | 546        | 2020/04/28                | 2023/04/27                |
| ●                                 | Pre-Amplifier           | SCHWARZBECK        | HTWE0295      | BBV 9742    | N/A        | 2020/11/12                | 2021/11/11                |
| ●                                 | RF Connection Cable     | HUBER+SUHNER       | HTWE0062-01   | N/A         | N/A        | 2020/05/27                | 2021/05/26                |
| ●                                 | RF Connection Cable     | HUBER+SUHNER       | HTWE0062-02   | SUCOFLEX104 | 501184/4   | 2020/05/27                | 2021/05/26                |
| ●                                 | Test Software           | R&S                | N/A           | ES-K1       | N/A        | N/A                       | N/A                       |

| ● Radiated emission-7th test site |                         |                    |               |           |            |                           |                           |
|-----------------------------------|-------------------------|--------------------|---------------|-----------|------------|---------------------------|---------------------------|
| Used                              | Test Equipment          | Manufacturer       | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ●                                 | Semi-Anechoic Chamber   | Albatross projects | HTWE0122      | SAC-3m-01 | N/A        | 2018/09/30                | 2021/09/29                |
| ●                                 | Spectrum Analyzer       | R&S                | HTWE0098      | FSP40     | 100597     | 2020/10/20                | 2021/10/19                |
| ●                                 | Horn Antenna            | SCHWARZBECK        | HTWE0126      | 9120D     | 1011       | 2020/04/01                | 2023/03/31                |
| ●                                 | Broadband Pre-amplifier | SCHWARZBECK        | HTWE0201      | BBV 9718  | 9718-248   | 2020/05/23                | 2021/05/22                |
| ●                                 | RF Connection Cable     | HUBER+SUHNER       | HTWE0121-01   | RE-7-FH   | N/A        | 2020/05/10                | 2021/05/09                |
| ●                                 | Test Software           | Audix              | N/A           | E3        | N/A        | N/A                       | N/A                       |

## 5. TEST CONDITIONS AND RESULTS

### 5.1. Conducted Emissions Test

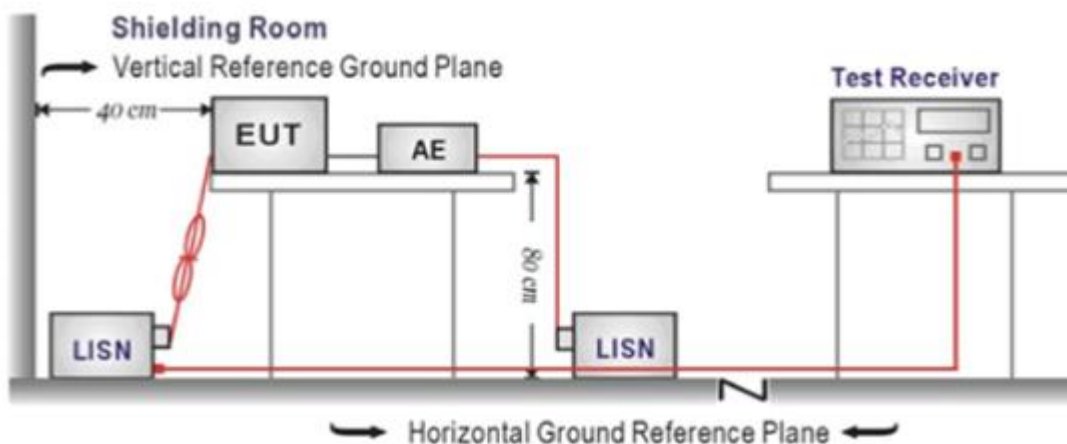
#### LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

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

\* Decreases with the logarithm of the frequency.

#### TEST CONFIGURATION



#### TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4:2014
2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

#### TEST MODE:

Please refer to the clause 3.3

#### TEST RESULTS

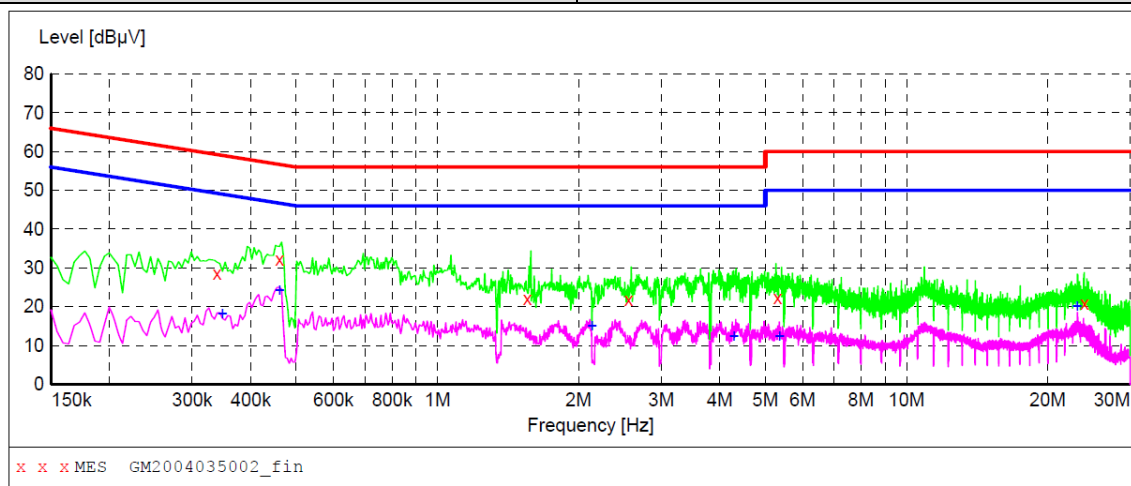
☒ Passed ☐ Not Applicable

Note: When the EUT connect to tablet PC via USB cable. Both the EUT and tablet PC can't connect to the AC adapter. So only the charging mode was test.



Test Line:

L

**MEASUREMENT RESULT: "GM2004035002\_fin"**

4/3/2020 10:35AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.339000         | 28.60         | 10.1         | 59            | 30.6         | QP       | L1   | GND |
| 0.460500         | 32.10         | 10.1         | 57            | 24.6         | QP       | L1   | GND |
| 1.554000         | 22.10         | 10.1         | 56            | 33.9         | QP       | L1   | GND |
| 2.553000         | 21.90         | 10.2         | 56            | 34.1         | QP       | L1   | GND |
| 5.311500         | 22.30         | 10.2         | 60            | 37.7         | QP       | L1   | GND |
| 23.950500        | 20.80         | 10.5         | 60            | 39.2         | QP       | L1   | GND |

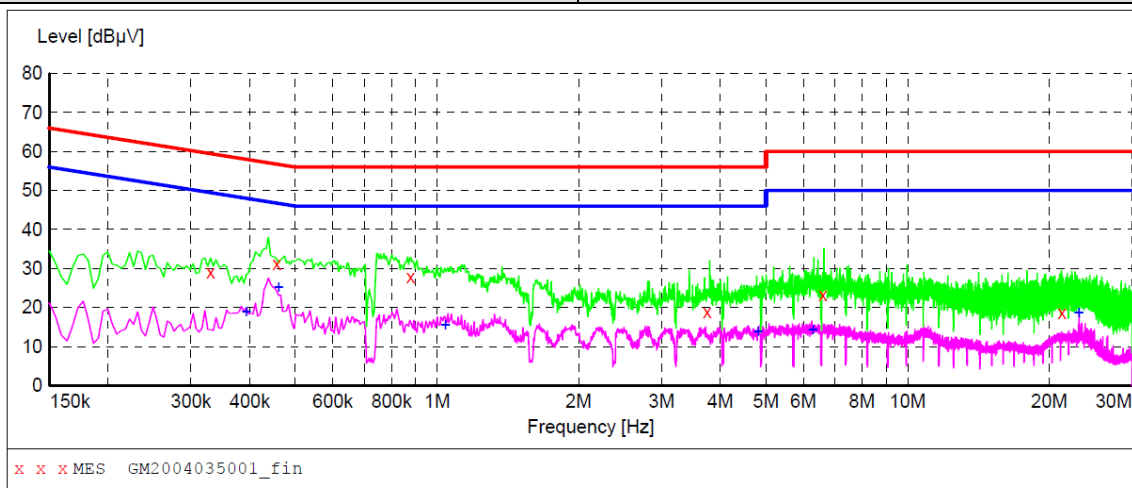
**MEASUREMENT RESULT: "GM2004035002\_fin2"**

4/3/2020 10:35AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.348000         | 18.10         | 10.1         | 49            | 30.9         | AV       | L1   | GND |
| 0.460500         | 24.10         | 10.1         | 47            | 22.6         | AV       | L1   | GND |
| 2.134500         | 14.90         | 10.1         | 46            | 31.1         | AV       | L1   | GND |
| 4.281000         | 12.30         | 10.2         | 46            | 33.7         | AV       | L1   | GND |
| 5.356500         | 12.30         | 10.2         | 50            | 37.7         | AV       | L1   | GND |
| 23.127000        | 20.10         | 10.5         | 50            | 29.9         | AV       | L1   | GND |

Test Line:

N

**MEASUREMENT RESULT: "GM2004035001\_fin"**

4/3/2020 10:31AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.330000         | 29.10         | 10.1         | 60            | 30.4         | QP       | N    | GND |
| 0.456000         | 31.20         | 10.1         | 57            | 25.6         | QP       | N    | GND |
| 0.879000         | 27.70         | 10.1         | 56            | 28.3         | QP       | N    | GND |
| 3.750000         | 18.90         | 10.2         | 56            | 37.1         | QP       | N    | GND |
| 6.598500         | 23.20         | 10.2         | 60            | 36.8         | QP       | N    | GND |
| 21.273000        | 18.60         | 10.5         | 60            | 41.4         | QP       | N    | GND |

**MEASUREMENT RESULT: "GM2004035001\_fin2"**

4/3/2020 10:31AM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.393000         | 18.90         | 10.1         | 48            | 29.1         | AV       | N    | GND |
| 0.460500         | 25.30         | 10.1         | 47            | 21.4         | AV       | N    | GND |
| 1.041000         | 15.40         | 10.1         | 46            | 30.6         | AV       | N    | GND |
| 4.803000         | 13.80         | 10.2         | 46            | 32.2         | AV       | N    | GND |
| 6.292500         | 14.20         | 10.2         | 50            | 35.8         | AV       | N    | GND |
| 23.127000        | 18.70         | 10.5         | 50            | 31.3         | AV       | N    | GND |

## 5.2. Radiated Emissions Test

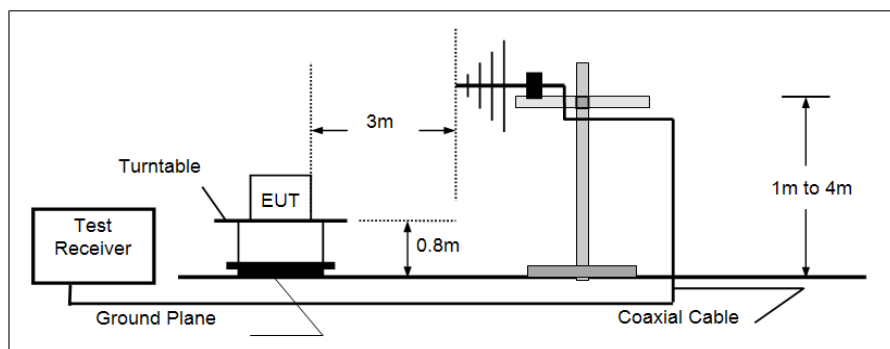
### LIMIT

#### FCC CFR Title 47 Part 15 Subpart B Section 15.109

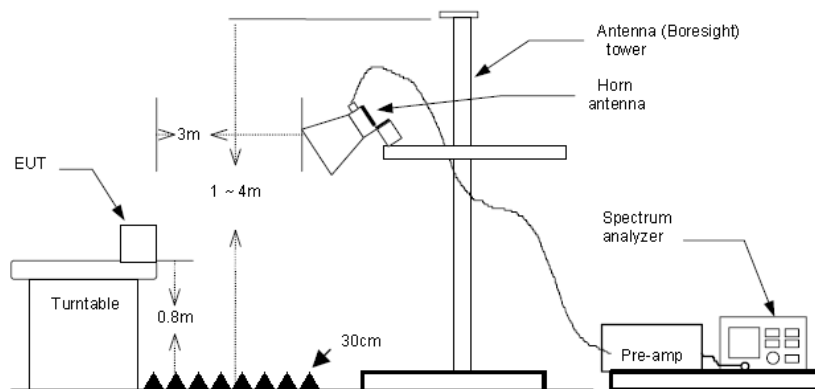
| Frequency     | Limit (dBuV/m @3m) | Value      |
|---------------|--------------------|------------|
| 30MHz-88MHz   | 40.00              | Quasi-peak |
| 88MHz-216MHz  | 43.50              | Quasi-peak |
| 216MHz-960MHz | 46.00              | Quasi-peak |
| 960MHz-1GHz   | 54.00              | Quasi-peak |
| Above 1GHz    | 54.00              | Average    |
|               | 74.00              | Peak       |

### TEST CONFIGURATION

#### ➤ 30MHz ~ 1GHz



#### ➤ Above 1GHz



### TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground.
3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1GHz,  
RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;  
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

**TEST MODE:**

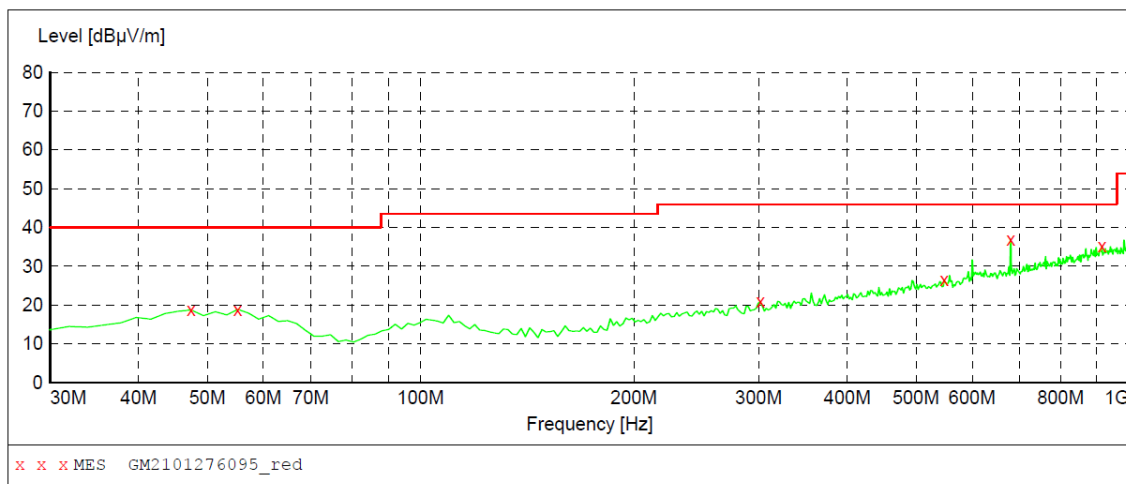
USB data transmission

**TEST RESULTS**☒ **Passed**      ☐ **Not Applicable**

Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor  
The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

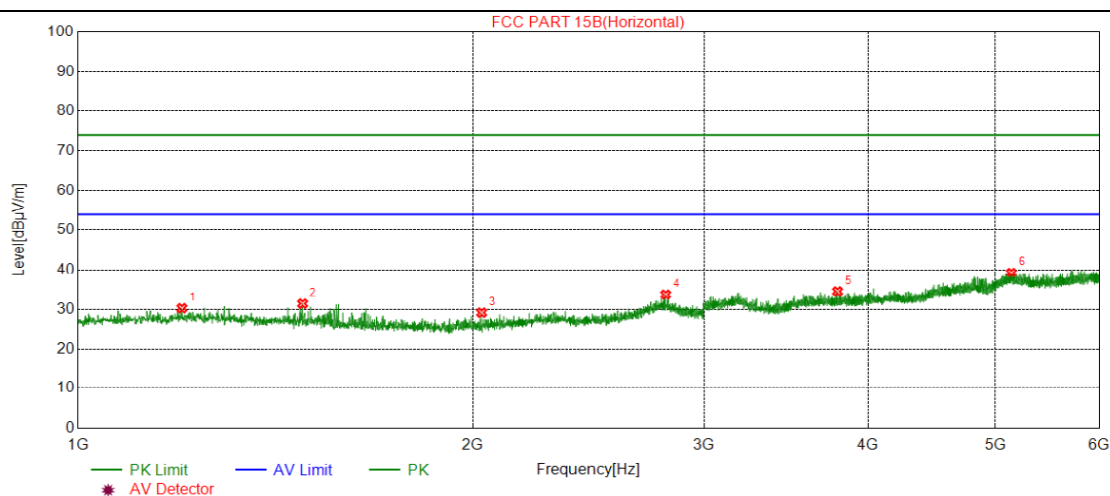
Polarization:

Horizontal

**MEASUREMENT RESULT: "GM2101276095\_red"**

1/27/2021 5:27PM

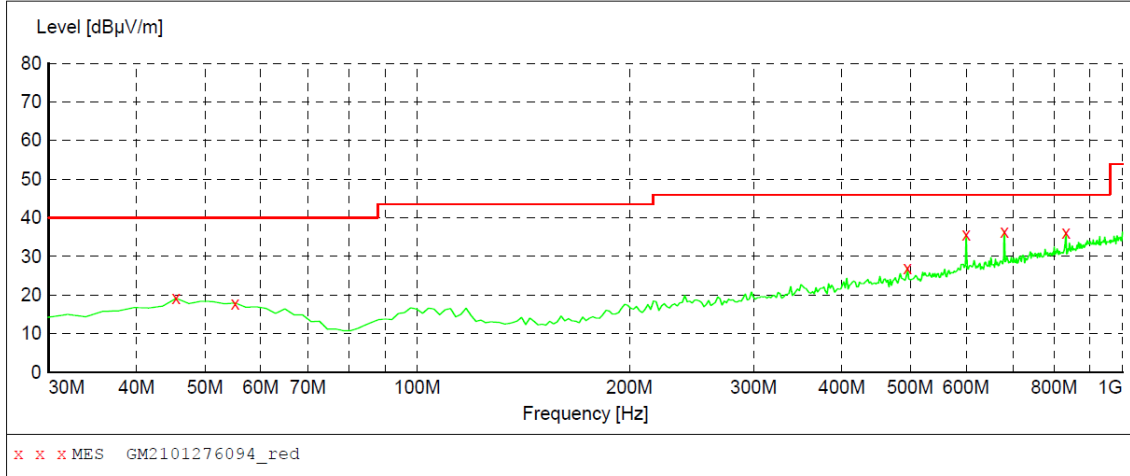
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Det. | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 47.460000        | 18.70           | -8.6         | 40.0            | 21.3         | QP   | 100.0        | 65.00          | HORIZONTAL   |
| 55.220000        | 18.90           | -9.1         | 40.0            | 21.1         | QP   | 100.0        | 0.00           | HORIZONTAL   |
| 301.600000       | 20.90           | -7.1         | 46.0            | 25.1         | QP   | 100.0        | 0.00           | HORIZONTAL   |
| 547.980000       | 26.50           | -0.6         | 46.0            | 19.5         | QP   | 100.0        | 0.00           | HORIZONTAL   |
| 679.900000       | 37.00           | 2.4          | 46.0            | 9.0          | QP   | 100.0        | 87.00          | HORIZONTAL   |
| 914.640000       | 35.10           | 7.5          | 46.0            | 10.9         | QP   | 100.0        | 50.00          | HORIZONTAL   |

**Suspected Data List**

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Polarity   | Detector |
|-----|----------------|---------------------|----------------|-------------------|-------------------|----------------|------------|----------|
| 1   | 1200.000       | 36.11               | -5.83          | 30.28             | 74.00             | 43.72          | Horizontal | PK       |
| 2   | 1483.125       | 37.02               | -5.62          | 31.40             | 74.00             | 42.60          | Horizontal | PK       |
| 3   | 2030.625       | 33.69               | -4.49          | 29.20             | 74.00             | 44.80          | Horizontal | PK       |
| 4   | 2805.000       | 31.68               | 2.01           | 33.69             | 74.00             | 40.31          | Horizontal | PK       |
| 5   | 3791.875       | 32.54               | 1.96           | 34.50             | 74.00             | 39.50          | Horizontal | PK       |
| 6   | 5143.750       | 30.47               | 8.88           | 39.35             | 74.00             | 34.65          | Horizontal | PK       |

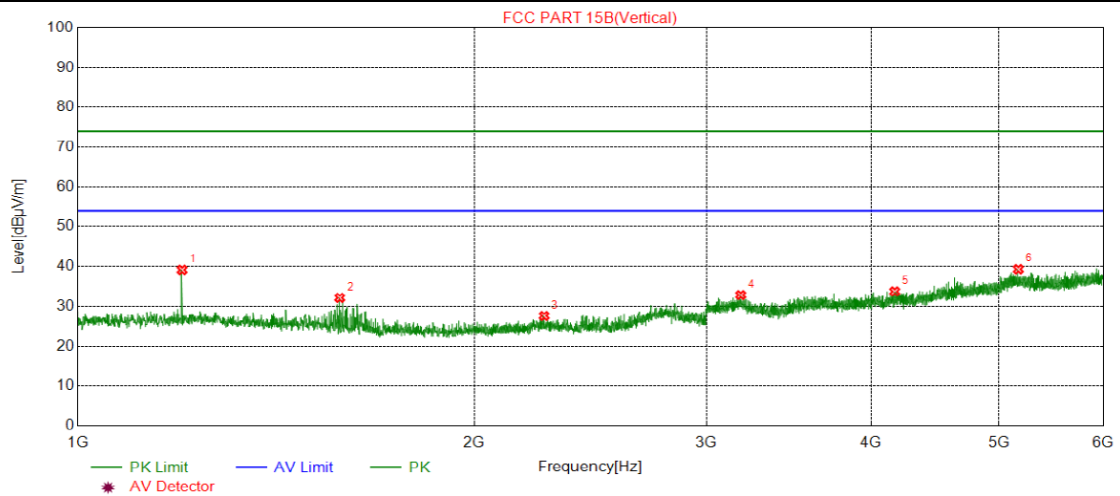
Polarization:

Vertical

**MEASUREMENT RESULT: "GM2101276094\_red"**

1/27/2021 5:24PM

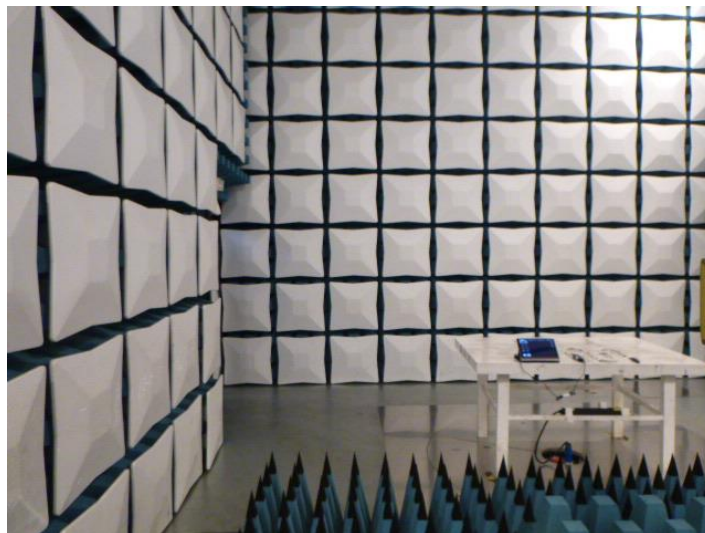
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Det. | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 45.520000        | 19.20           | -8.9         | 40.0            | 20.8         | QP   | 100.0        | 66.00          | VERTICAL     |
| 55.220000        | 17.90           | -9.1         | 40.0            | 22.1         | QP   | 100.0        | 88.00          | VERTICAL     |
| 495.600000       | 27.10           | -1.7         | 46.0            | 18.9         | QP   | 100.0        | 77.00          | VERTICAL     |
| 600.360000       | 35.70           | 1.3          | 46.0            | 10.3         | QP   | 100.0        | 171.00         | VERTICAL     |
| 679.900000       | 36.50           | 2.4          | 46.0            | 9.5          | QP   | 100.0        | 99.00          | VERTICAL     |
| 831.220000       | 36.20           | 5.5          | 46.0            | 9.8          | QP   | 100.0        | 88.00          | VERTICAL     |

**Suspected Data List**

| NO. | Freq.<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Polarity | Detector |
|-----|----------------|---------------------|----------------|-------------------|-------------------|----------------|----------|----------|
| 1   | 1200.000       | 45.01               | -5.83          | 39.18             | 74.00             | 34.82          | Vertical | PK       |
| 2   | 1580.625       | 38.26               | -6.15          | 32.11             | 74.00             | 41.89          | Vertical | PK       |
| 3   | 2259.375       | 30.17               | -2.59          | 27.58             | 74.00             | 46.42          | Vertical | PK       |
| 4   | 3185.625       | 32.05               | 0.77           | 32.82             | 74.00             | 41.18          | Vertical | PK       |
| 5   | 4168.750       | 30.10               | 3.64           | 33.74             | 74.00             | 40.26          | Vertical | PK       |
| 6   | 5173.750       | 30.41               | 8.93           | 39.34             | 74.00             | 34.66          | Vertical | PK       |

## 6. TEST SETUP PHOTOS OF THE EUT

### Radiated Emissions



### Conducted Emission



## **7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT**

Reference to the test report No.: CHTEW19120171R1

-----End of Report-----