

# FCC TEST REPORT

## FCC ID:2A4OE-B-18S

Applicant Name..... : Dongguan Boxinda Electronic Technology Co., Ltd.

Address..... : Room 1001, Building 4, 160 Luyuan Road, Tangxia Town, Dongguan City, Guangdong Province, China.

Manufacturer Name..... : Dongguan Boxinda Electronic Technology Co., Ltd.

Address..... : Room 1001, Building 4, 160 Luyuan Road, Tangxia Town, Dongguan City, Guangdong Province, China.

Product..... : Foldable 4-in-1 wireless charger

Model(s)..... : B-18S

Additional Model(s)..... : /

Trademark..... : /

Model Difference..... : /

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : Dec. 29, 2025

Date of Test(s)..... : Dec. 29, 2025 - Jan. 22, 2026

Date of Issue..... : Jan. 22, 2026

Test Requested..... : Select test(s) as requested by the client.

Test Standard(s)..... : FCC CFR Title 47 Part 15 Subpart C

Test procedure..... : ANSI C63.10-2020

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:

*Kimi Lu*

Kimi Lu/ Engineer

Reviewed by:

*Baret Wu*

Baret Wu/ Director



Lee/ Manager

**Note:** The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.



## TABLE OF CONTENTS

|                                                        |           |
|--------------------------------------------------------|-----------|
| <b>1. TEST SUMMARY .....</b>                           | <b>3</b>  |
| <b>2. GENERAL INFORMATION .....</b>                    | <b>4</b>  |
| 3.1 GENERAL DESCRIPTION OF EUT .....                   | 4         |
| 3.2 Test mode .....                                    | 5         |
| 3.3 Block Diagram of EUT Configuration .....           | 6         |
| 3.4 Test Conditions .....                              | 6         |
| <b>3. TEST FACILITY AND TEST INSTRUMENT USED .....</b> | <b>7</b>  |
| 4.1 Test Facility .....                                | 7         |
| 4.2 Instrument List For All Test Items .....           | 7         |
| 4.3 Testing software .....                             | 8         |
| 4.4 Measurement Uncertainty .....                      | 8         |
| <b>4. CONDUCTED EMISSION TEST .....</b>                | <b>9</b>  |
| 5.1 CONDUCTED EMISSION MEASUREMENT .....               | 9         |
| 5.1.1 POWER LINE CONDUCTED EMISSION Limits .....       | 9         |
| 5.1.2 TEST PROCEDURE .....                             | 9         |
| 5.1.3 DEVIATION FROM TEST STANDARD .....               | 9         |
| 5.1.4 TEST SETUP .....                                 | 10        |
| 5.1.5 EUT OPERATING CONDITIONS .....                   | 10        |
| 5.1.6 Test Result .....                                | 11        |
| <b>5. RADIATED EMISSION MEASUREMENT .....</b>          | <b>13</b> |
| 6.1 Radiated Emission Limits .....                     | 13        |
| 6.2 Anechoic Chamber Test Setup Diagram .....          | 14        |
| 6.3 Test Procedure .....                               | 14        |
| 6.4 DEVIATION FROM TEST STANDARD .....                 | 14        |
| 6.5 Test Result .....                                  | 15        |
| <b>6. BANDWIDTH TEST .....</b>                         | <b>18</b> |
| <b>7. ANTENNA REQUIREMENT .....</b>                    | <b>22</b> |
| <b>8. TEST SETUP PHOTO .....</b>                       | <b>23</b> |
| <b>9. EUT CONSTRUCTIONAL DETAILS .....</b>             | <b>23</b> |

## 1. TEST SUMMARY

| Test Item                        | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement              | 15.203            | Pass   |
| AC Power Line Conducted Emission | 15.207            | Pass   |
| Spurious Emission                | 15.209(a)(f)      | Pass   |
| 20dB Bandwidth                   | 15.215            | Pass   |

### NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

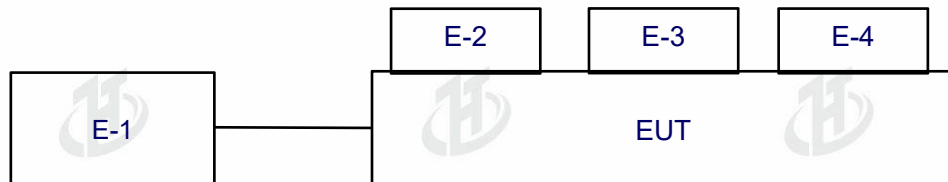
|                                                                                                                                                                                                |                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                                                                                                                                                                  | Foldable 4-in-1 wireless charger                                                                                                |
| Test Model No:                                                                                                                                                                                 | B-18S                                                                                                                           |
| Hardware version:                                                                                                                                                                              | V1.0                                                                                                                            |
| Software version:                                                                                                                                                                              | V1.0                                                                                                                            |
| Operation Frequency:                                                                                                                                                                           | Mobile Phone: 110.1-205kHz<br>Headphone: 110.1-205 kHz<br>Watch: 110.1-205 kHz                                                  |
| Modulation type:                                                                                                                                                                               | ASK                                                                                                                             |
| Antenna Type:                                                                                                                                                                                  | Inductive loop coil Antenna                                                                                                     |
| Antenna gain:                                                                                                                                                                                  | 0dBi                                                                                                                            |
| Power supply:                                                                                                                                                                                  | Input:9V $\overline{=}$ 2A, 12V $\overline{=}$ 1.5A<br>Mobile Phone output: 15W Max<br>Headphone output: 5W<br>Watch output: 3W |
| Sample Number:                                                                                                                                                                                 | 251229127YP001                                                                                                                  |
| Remark:The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility. |                                                                                                                                 |

## 2.2 Test mode

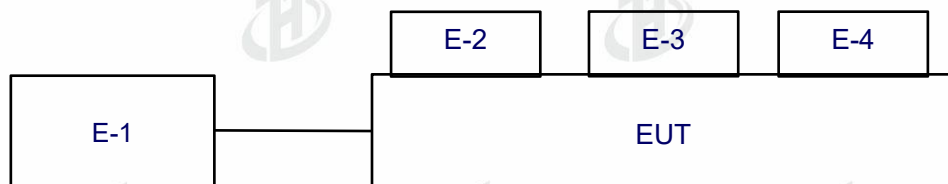
| Test Modes:                                                                                            |                                                                                                    |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Mode 1                                                                                                 | AC Mains + Phone charging port + Earphone charging port + Watch charging port(Battery Status:≤1%)  |
| Mode 2                                                                                                 | AC Mains + Phone charging port + Earphone charging port + Watch charging port(Battery Status:50%)  |
| Mode 3                                                                                                 | AC Mains + Phone charging port + Earphone charging port + Watch charging port(Battery Status:≥98%) |
| Mode 4                                                                                                 | AC Mains + Phone charging port(Battery Status:≤1%)                                                 |
| Mode 5                                                                                                 | AC Mains + Phone charging port(Battery Status:50%)                                                 |
| Mode 6                                                                                                 | AC Mains + Phone charging port(Battery Status:≥98%)                                                |
| Mode 7                                                                                                 | AC Mains + Headphone charging port(Battery Status:≤1%)                                             |
| Mode 8                                                                                                 | AC Mains + Headphone charging port(Battery Status:50%)                                             |
| Mode 9                                                                                                 | AC Mains + Headphone charging port(Battery Status:≥98%)                                            |
| Mode 10                                                                                                | AC Mains + Watch charging port(Battery Status:≤1%)                                                 |
| Mode 11                                                                                                | AC Mains + Watch charging port(Battery Status:50%)                                                 |
| Mode 12                                                                                                | AC Mains + Watch charging port(Battery Status:≥98%)                                                |
| Mode 13                                                                                                | Standby                                                                                            |
| Note: All modes were tested, only the worst-case was recorded in the report. Mode 1 is the worst mode. |                                                                                                    |

## 2.3 Block Diagram of EUT Configuration

### Conducted Emission



### Radiated Emission



## 2.4 Test Conditions

Temperature: 25.6℃

Relative Humidity: 54.3

## 3. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment    | Mfr/Brand                                       | Model/Type No. | Series No. | Note |
|------|--------------|-------------------------------------------------|----------------|------------|------|
| E-1  | AC Adapter   | Huizhou Jinhui Industrial Development Co., Ltd. | VCBAJACH       | /          | AE   |
| E-2  | Mobile phone | Xiaomi                                          | Xiaomi 13      | /          | AE   |
| E-3  | Earphone     | Apple Inc.                                      | A2031          | /          | AE   |
| E-4  | Apple watch  | Apple Inc.                                      | ultra 2        | /          | AE   |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
|      |               |              |        |      |
|      |               |              |        |      |

|       |                                                                                        |
|-------|----------------------------------------------------------------------------------------|
| Note: |                                                                                        |
| (1)   | The support equipment was authorized by Declaration of Confirmation.                   |
| (2)   | For detachable type I/O cable should be specified the length in cm in 『Length』 column. |
| (3)   | “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.      |

**4. TEST FACILITY AND TEST INSTRUMENT USED****4.1 Test Facility**

Guangdong Zhonghan Testing Technology Co., Ltd.  
Add. :Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941  
Designation Number: CN0325  
IC Registered No.: 29832  
CAB identifier: CN0143

**4.2 Instrument List For All Test Items****Radiation Test equipment**

| Item | Equipment                          | Manufacturer | Model               | Serial No. | Last Cal.     | Next Cal.     |
|------|------------------------------------|--------------|---------------------|------------|---------------|---------------|
| 1    | Receiver                           | R&S          | ESCI                | 100874     | May 6, 2025   | May 5, 2026   |
| 2    | Loop antenna                       | EMCI         | LAP600              | 272        | Sept. 8, 2025 | Sept. 7, 2026 |
| 3    | Amplifier                          | Schwarzbeck  | BBV 9743 B          | 00378      | May 6, 2025   | May 5, 2026   |
| 4    | Amplifier                          | Schwarzbeck  | BBV 9718 B          | 00040      | May 7, 2025   | May 6, 2026   |
| 5    | Bilog Antenna                      | Schwarzbeck  | VULB9162            | 00498      | May 15, 2025  | May 14, 2026  |
| 6    | Horn Antenna                       | Schwarzbeck  | BBHA9120D           | 02623      | May 15, 2025  | May 14, 2026  |
| 7    | Horn Antenna                       | A.H.SYSTEMS  | SAS574              | 588        | Oct. 20, 2025 | Oct. 19, 2026 |
| 8    | Amplifier                          | AEROFLEX     | 100KHz-40GHz        | 097        | Oct. 20, 2025 | Oct. 19, 2026 |
| 9    | Spectrum Analyzer                  | R&S          | FSV40               | 101413     | Oct. 20, 2025 | Oct. 19, 2026 |
| 10   | Spectrum Analyzer                  | KEYSIGHT     | N9020A              | MY53420208 | May 7, 2025   | May 6, 2026   |
| 11   | WIDBAND RADIO COMMUNICATION TESTER | R&S          | CMW500              | 109863     | May 7, 2025   | May 6, 2026   |
| 12   | Single Generator                   | Agilent      | N5182A              | MY48180575 | May 7, 2025   | May 6, 2026   |
| 13   | Power Sensor                       | MWRFtest     | MW100-RFCB          | /          | May 7, 2025   | May 6, 2026   |
| 14   | CABLE                              | EMToni       | DA800-NM-NM-11000MM | /          | Nov. 25, 2021 | Nov. 24, 2026 |

#### Conduction Test equipment

| Equipment                 | Manufacturer | Model               | Serial No.  | Last Cal.   | Next Cal.   |
|---------------------------|--------------|---------------------|-------------|-------------|-------------|
| Receiver                  | R&S          | ESCI                | 100874      | May 6, 2025 | May 5, 2026 |
| LISN                      | R&S          | ENV216              | 102794      | May 6, 2025 | May 5, 2026 |
| ISN CAT 6                 | Schwarzbeck  | NTFM 8158           | 00318       | May 7, 2025 | May 6, 2026 |
| ISN CAT 5                 | Schwarzbeck  | CAT5 8158           | 00343       | May 7, 2025 | May 6, 2026 |
| Capacitive Voltage Probe  | Schwarzbeck  | CVP 9222 C          | 00101       | May 8, 2025 | May 7, 2026 |
| Current Transformer Clamp | Schwarzbeck  | SW 9605             | SW9605 #209 | May 8, 2025 | May 7, 2026 |
| CABLE                     | EMToni       | G223-NM-BNCM-2000MM | /           | May 6, 2025 | May 5, 2026 |

#### 4.3 Testing software

| Project            | Software name | Edition        |
|--------------------|---------------|----------------|
| Conducted Emission | EZ-EMC        | EMC-CON 3A1.1+ |
| Radiated Emission  | EZ-EMC        | FA-03A2 RE+    |
| RF Test            | MTS 8310      | 2.0.0.0        |

#### 4.4 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 %.

| No. | Item                                | Uncertainty |
|-----|-------------------------------------|-------------|
| 1   | Conducted Emission Test             | 0.92dB      |
| 2   | RF conducted power                  | 0.16dB      |
| 3   | Conducted spurious emissions        | 0.21dB      |
| 4   | All radiated emissions (9k-30MHz)   | 4.68dB      |
| 5   | All radiated emissions (30-1GHz)    | 5.1dB       |
| 6   | All radiated emissions (1-6GHz)     | 3.9dB       |
| 7   | All radiated emissions (6GHz-18GHz) | 4.3dB       |
| 8   | All radiated emissions (18-40GHz)   | 4.65dB      |
| 9   | Temperature                         | 0.5°C       |
| 10  | Humidity                            | 2%          |
| 11  | Occupied Bandwidth                  | 4.96%       |

#### Decision Rule

- ☒ Uncertainty is not included  
☐ Uncertainty is inclu

## 5. CONDUCTED EMISSION TEST

### 5.1 CONDUCTED EMISSION MEASUREMENT

|                       |                                      |
|-----------------------|--------------------------------------|
| Test Requirement:     | FCC Part15 C Section 15.207          |
| Test Method:          | ANSI C63.10:2020                     |
| Test Frequency Range: | 150KHz to 30MHz                      |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 5.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) |           | Standard |
|-----------------|--------------|-----------|----------|
|                 | QP           | AVG       |          |
| 0.15 -0.5       | 66 - 56 *    | 56 - 46 * | FCC      |
| 0.50 -5.0       | 56.00        | 46.00     | FCC      |
| 5.0 -30.0       | 60.00        | 50.00     | FCC      |

Note:

(1) \*Decreases with the logarithm of the frequency.

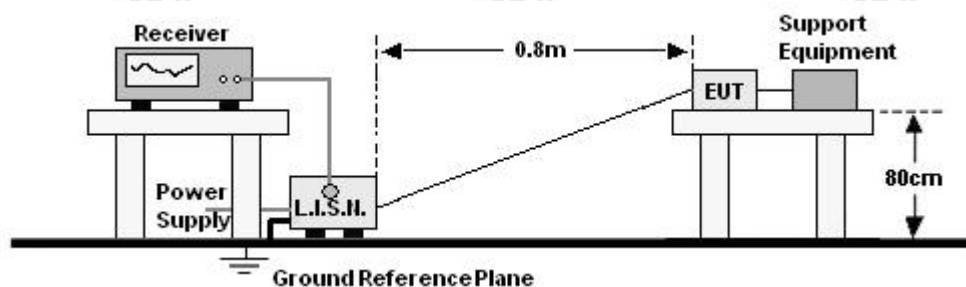
#### 5.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 to 40 cm long.
- I/O cables that are not connected to a peripheral 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 5.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 5.1.4 TEST SETUP

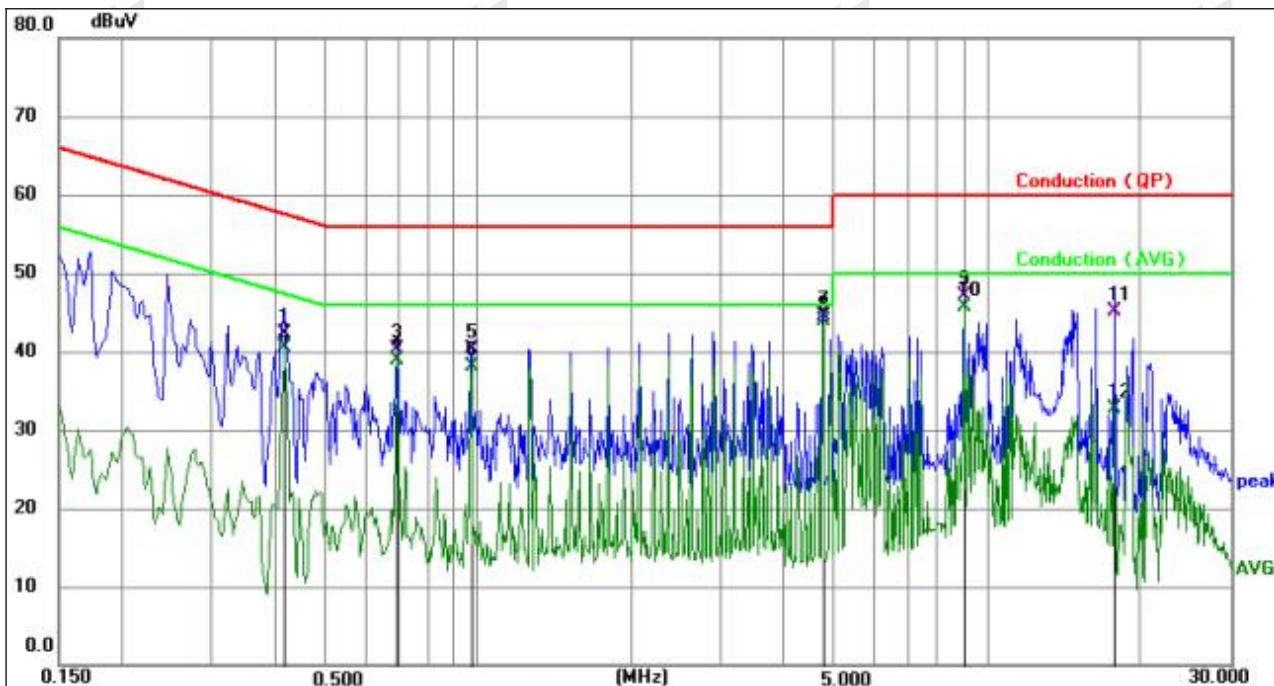


#### 5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

### 5.1.6 Test Result

|               |              |                    |        |
|---------------|--------------|--------------------|--------|
| Temperature:  | 24.6°C       | Relative Humidity: | 54.7%  |
| Pressure:     | 1014kPa      | Phase :            | L      |
| Test Voltage: | AC 120V/60Hz | Test Mode:         | Mode 1 |



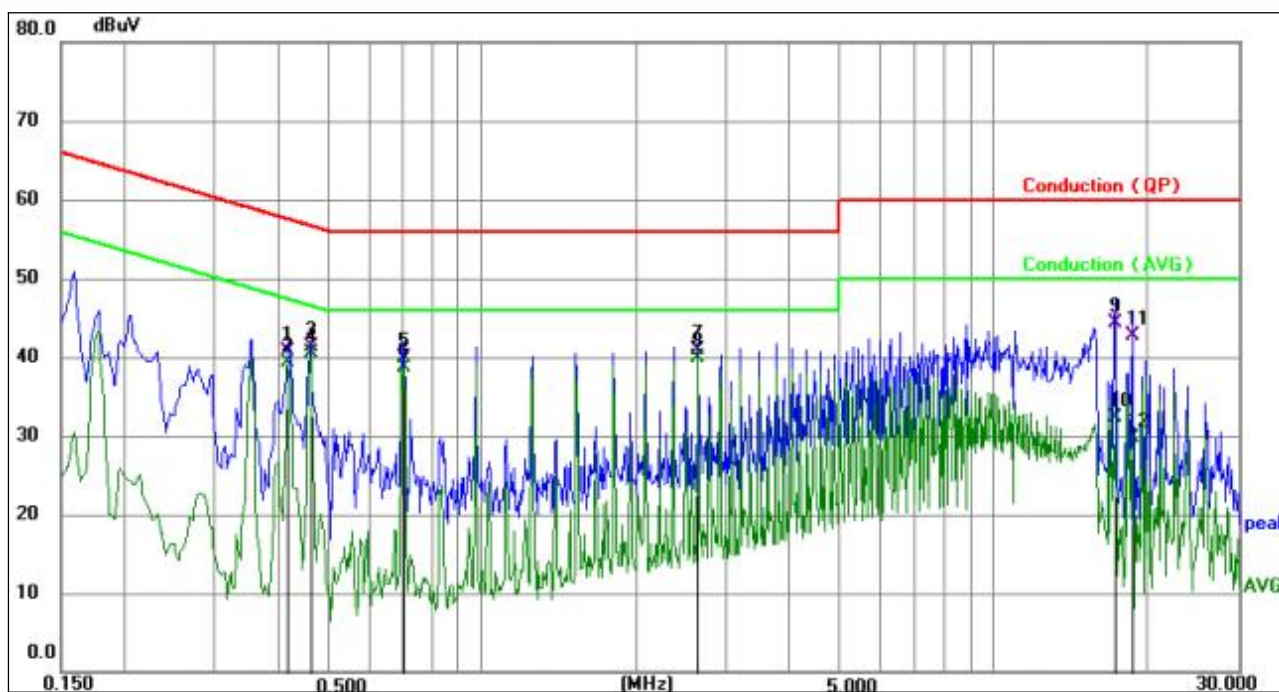
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.4154          | 32.41          | 9.99        | 42.40        | 57.54        | -15.14      | QP       | P   |        |
| 2   | 0.4154          | 30.61          | 9.99        | 40.60        | 47.54        | -6.94       | AVG      | P   |        |
| 3   | 0.6900          | 30.36          | 10.04       | 40.40        | 56.00        | -15.60      | QP       | P   |        |
| 4   | 0.6900          | 28.81          | 10.04       | 38.85        | 46.00        | -7.15       | AVG      | P   |        |
| 5   | 0.9690          | 30.24          | 10.06       | 40.30        | 56.00        | -15.70      | QP       | P   |        |
| 6   | 0.9690          | 28.00          | 10.06       | 38.06        | 46.00        | -7.94       | AVG      | P   |        |
| 7   | 4.7490          | 34.49          | 10.11       | 44.60        | 56.00        | -11.40      | QP       | P   |        |
| 8 * | 4.7490          | 33.73          | 10.11       | 43.84        | 46.00        | -2.16       | AVG      | P   |        |
| 9   | 8.9700          | 37.01          | 10.09       | 47.10        | 60.00        | -12.90      | QP       | P   |        |
| 10  | 8.9700          | 35.63          | 10.09       | 45.72        | 50.00        | -4.28       | AVG      | P   |        |
| 11  | 17.7900         | 34.93          | 10.10       | 45.03        | 60.00        | -14.97      | QP       | P   |        |
| 12  | 17.7900         | 22.57          | 10.10       | 32.67        | 50.00        | -17.33      | AVG      | P   |        |

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



|               |              |                    |        |
|---------------|--------------|--------------------|--------|
| Temperature:  | 24.6°C       | Relative Humidity: | 54.7%  |
| Pressure:     | 1014kPa      | Phase :            | N      |
| Test Voltage: | AC 120V/60Hz | Test Mode:         | Mode 1 |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.4155          | 30.81          | 9.99        | 40.80        | 57.54        | -16.74      | QP       | P   |        |
| 2   | 0.4155          | 29.34          | 9.99        | 39.33        | 47.54        | -8.21       | AVG      | P   |        |
| 3   | 0.4605          | 31.29          | 10.01       | 41.30        | 56.68        | -15.38      | QP       | P   |        |
| 4   | 0.4605          | 30.54          | 10.01       | 40.55        | 46.68        | -6.13       | AVG      | P   |        |
| 5   | 0.7035          | 29.79          | 10.04       | 39.83        | 56.00        | -16.17      | QP       | P   |        |
| 6   | 0.7035          | 28.66          | 10.04       | 38.70        | 46.00        | -7.30       | AVG      | P   |        |
| 7   | 2.6385          | 30.80          | 10.06       | 40.86        | 56.00        | -15.14      | QP       | P   |        |
| 8 * | 2.6385          | 29.90          | 10.06       | 39.96        | 46.00        | -6.04       | AVG      | P   |        |
| 9   | 17.2275         | 34.20          | 10.10       | 44.30        | 60.00        | -15.70      | QP       | P   |        |
| 10  | 17.2275         | 22.16          | 10.10       | 32.26        | 50.00        | -17.74      | AVG      | P   |        |
| 11  | 18.6900         | 32.59          | 10.11       | 42.70        | 60.00        | -17.30      | QP       | P   |        |
| 12  | 18.6900         | 19.67          | 10.11       | 29.78        | 50.00        | -20.22      | AVG      | P   |        |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

## 6. RADIATED EMISSION MEASUREMENT

|                       |                             |            |        |        |            |
|-----------------------|-----------------------------|------------|--------|--------|------------|
| Test Requirement:     | FCC Part15 C Section 15.209 |            |        |        |            |
| Test Method:          | ANSI C63.10:2020            |            |        |        |            |
| Test Frequency Range: | 9kHz to 1GHz                |            |        |        |            |
| Test site:            | Measurement Distance: 3m    |            |        |        |            |
| Receiver setup:       | Frequency                   | Detector   | RBW    | VBW    | Value      |
|                       | 9KHz-150KHz                 | Quasi-peak | 200Hz  | 600Hz  | Quasi-peak |
|                       | 150KHz-30MHz                | Quasi-peak | 9KHz   | 30KHz  | Quasi-peak |
|                       | 30MHz-1GHz                  | Quasi-peak | 100KHz | 300KHz | Quasi-peak |
|                       | Above 1GHz                  | Peak       | 1MHz   | 3MHz   | Peak       |
|                       |                             | Peak       | 1MHz   | 10Hz   | Average    |

### 6.1 Radiated Emission Limits

#### Limits for frequency below 30MHz

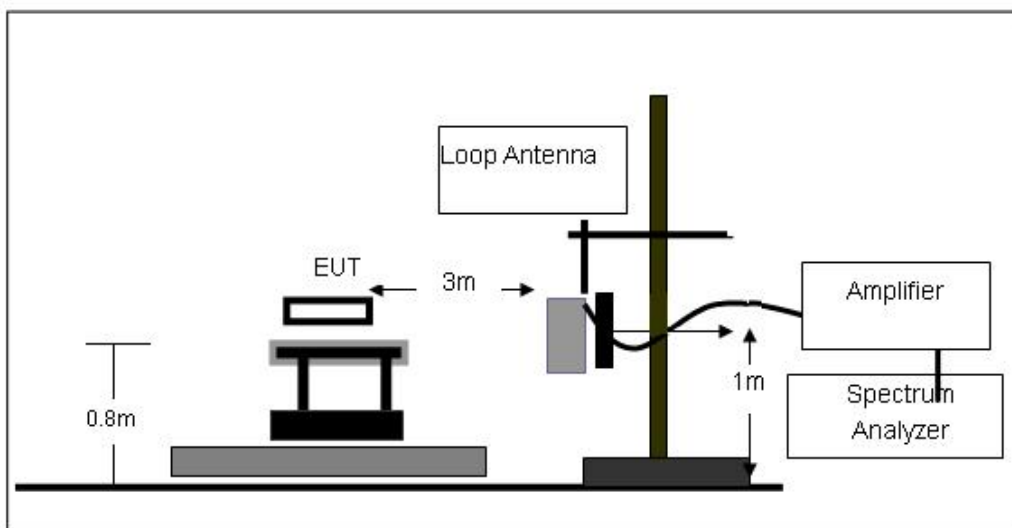
| Frequency   | Limit (uV/m) | Measurement Distance(m) | Remark           |
|-------------|--------------|-------------------------|------------------|
| 0.009-0.490 | 2400/F(kHz)  | 300                     | Peak Value       |
| 0.490-1.705 | 24000/F(kHz) | 30                      | Quasi-peak Value |
| 1.705-30    | 30           | 30                      | Quasi-peak Value |

#### Limits for frequency Above 30MHz

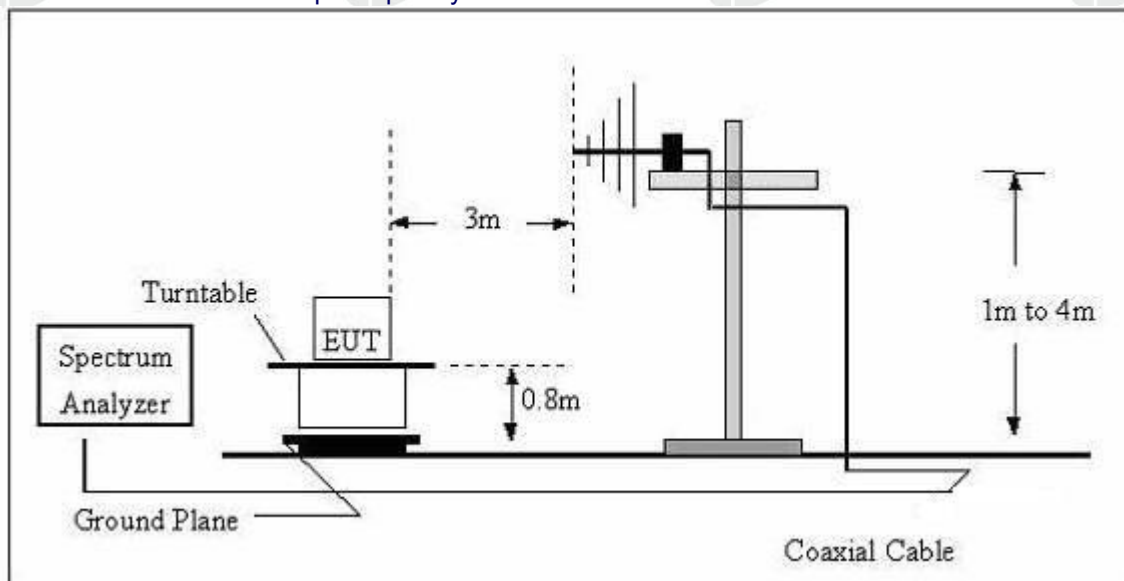
| Frequency     | Limit (dBuV/m @3m) | Remark           |
|---------------|--------------------|------------------|
| 30MHz-88MHz   | 40.00              | Quasi-peak Value |
| 88MHz-216MHz  | 43.50              | Quasi-peak Value |
| 216MHz-960MHz | 46.00              | Quasi-peak Value |
| 960MHz-1GHz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

## 6.2 Anechoic Chamber Test Setup Diagram

### (A) Radiated Emission Test-Up Frequency Below 30MHz



### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.205 limits.

## 6.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

## 6.4 DEVIATION FROM TEST STANDARD

No deviation



## 6.5 Test Result

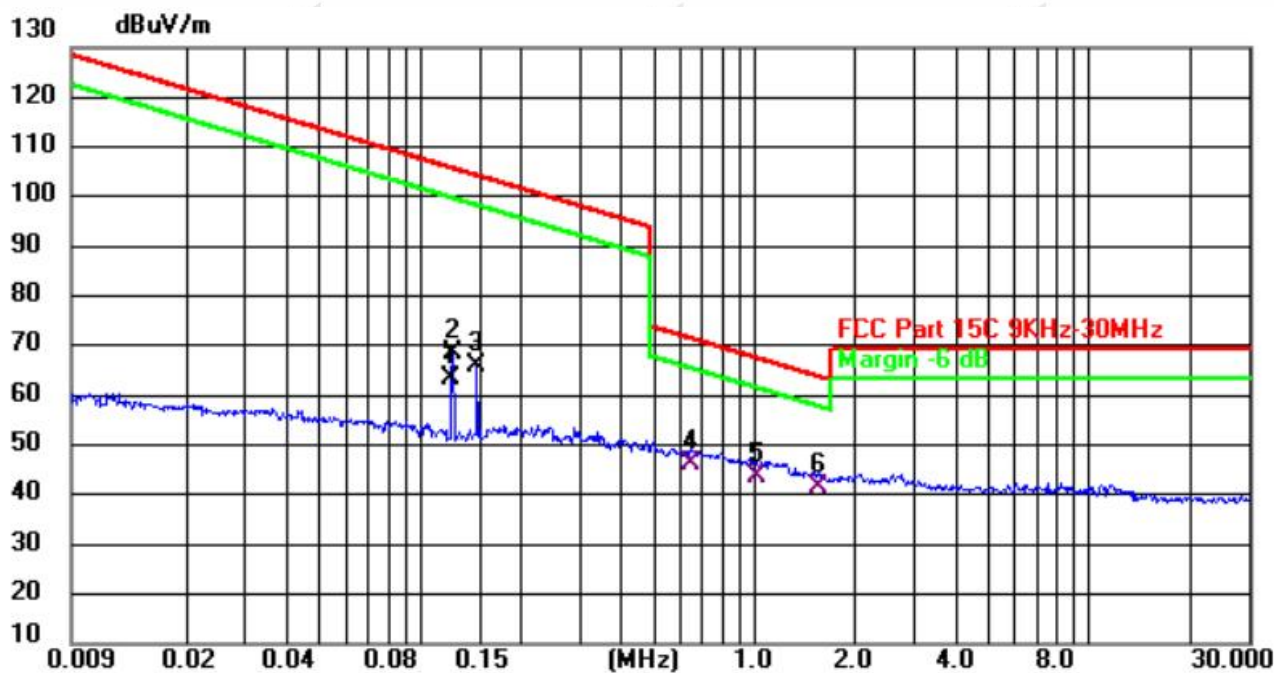
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

9 kHz~30 MHz

|               |              |                    |         |
|---------------|--------------|--------------------|---------|
| Temperature:  | 23.6℃        | Relative Humidity: | 54.2%   |
| Pressure:     | 1014kPa      | Polarization:      | coaxial |
| Test Voltage: | AC 120V/60Hz | Test Modes:        | Mode 1  |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 0.1237          | 63.21          | 0.16          | 63.37          | 105.76         | -42.39      | peak     |
| 2   | 0.1250          | 68.34          | 0.16          | 68.50          | 105.67         | -37.17      | peak     |
| 3   | 0.1474          | 65.87          | 0.16          | 66.03          | 104.23         | -38.20      | peak     |
| 4   | 0.6411          | 44.81          | 1.38          | 46.19          | 71.47          | -25.28      | QP       |
| 5   | 1.0100          | 41.62          | 2.13          | 43.75          | 67.52          | -23.77      | QP       |
| 6 * | 1.5403          | 38.23          | 3.22          | 41.45          | 63.85          | -22.40      | QP       |

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Emission Level = Meter Reading - Factor

Margin = Emission Level- Limit.

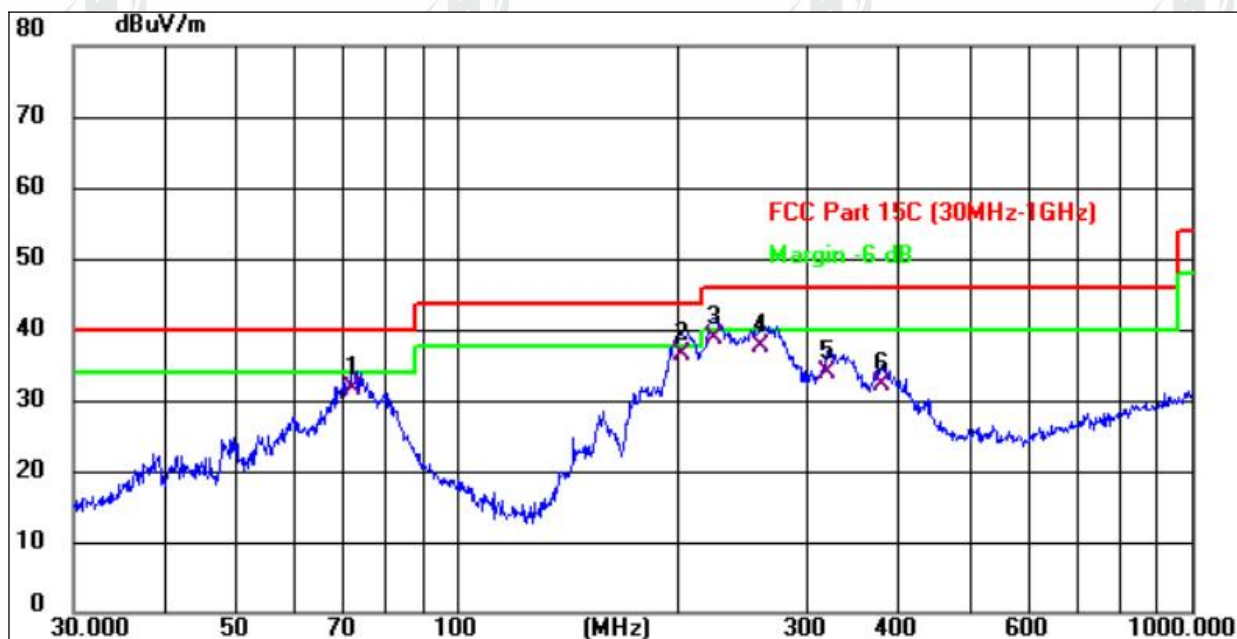
The amplitude of emissions which are attenuated by more than 20db below the permissible value has no need to be reported.

.'-Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.



30MHz-1GHz

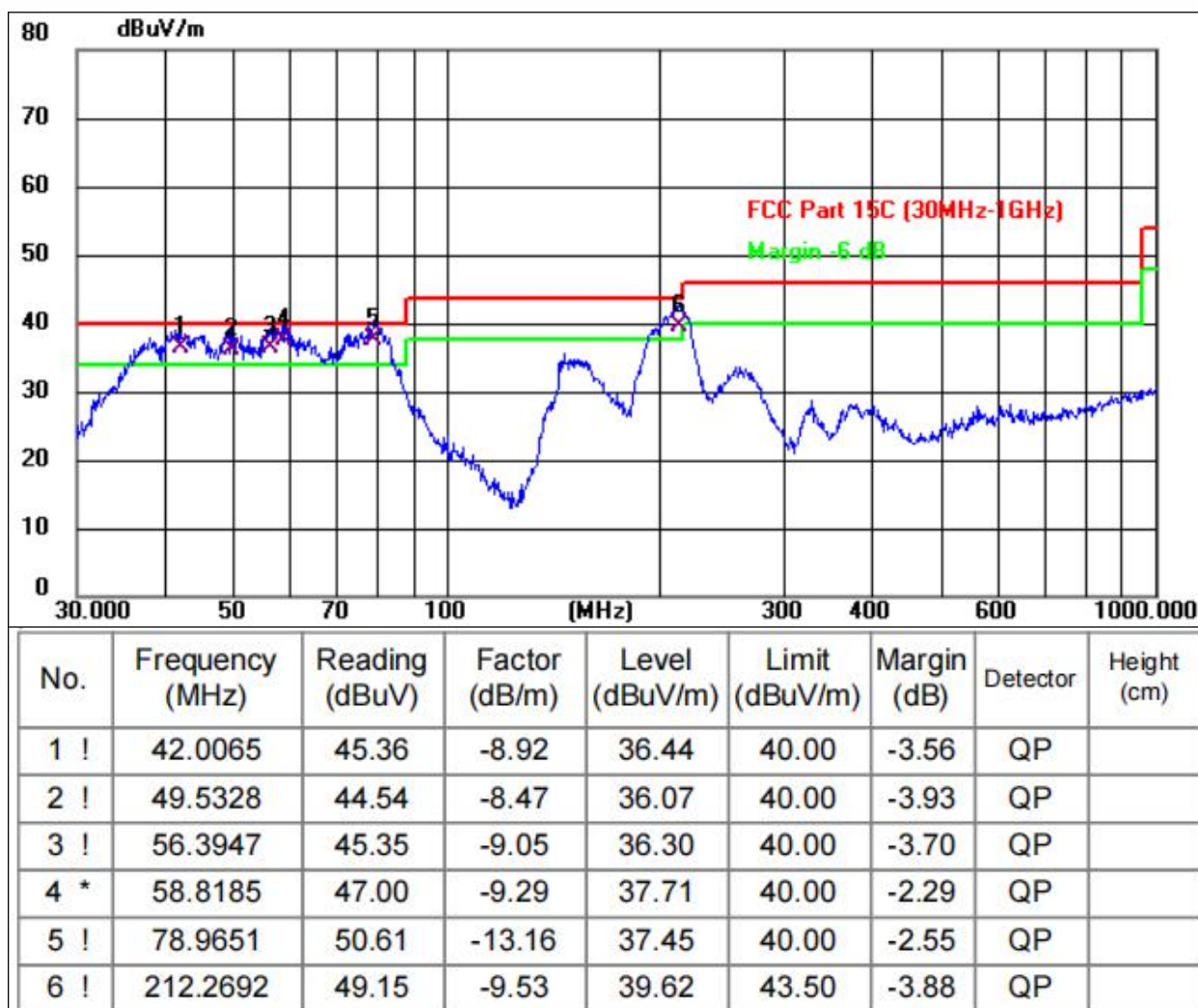
|               |              |                    |            |
|---------------|--------------|--------------------|------------|
| Temperature:  | 23.6℃        | Relative Humidity: | 54.2%      |
| Pressure:     | 1014 kPa     | Polarization:      | Horizontal |
| Test Voltage: | AC 120V/60Hz | Test Modes:        | Mode 1     |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 72.0841         | 44.01          | -12.31        | 31.70          | 40.00          | -8.30       | QP       |
| 2 * | 202.8103        | 46.36          | -9.88         | 36.48          | 43.50          | -7.02       | QP       |
| 3   | 224.5192        | 47.79          | -9.09         | 38.70          | 46.00          | -7.30       | QP       |
| 4   | 259.2337        | 45.53          | -7.97         | 37.56          | 46.00          | -8.44       | QP       |
| 5   | 319.9370        | 40.68          | -6.78         | 33.90          | 46.00          | -12.10      | QP       |
| 6   | 378.5842        | 37.51          | -5.50         | 32.01          | 46.00          | -13.99      | QP       |



|               |              |                    |          |
|---------------|--------------|--------------------|----------|
| Temperature:  | 23.6°C       | Relative Humidity: | 54.2%    |
| Pressure:     | 1014kPa      | Polarization:      | Vertical |
| Test Voltage: | AC 120V/60Hz | Test Modes:        | Mode 1   |



## Remarks:

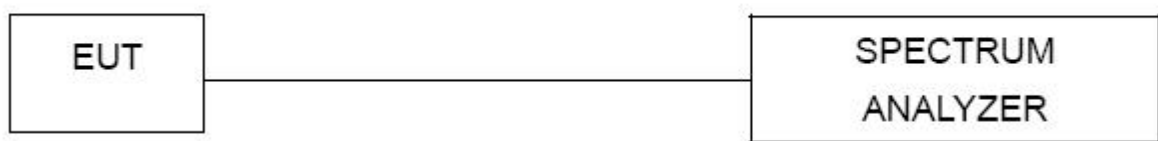
1. Factor = Antenna Factor + Cable Loss – Preamplifier Factor
2. Level = Reading + Factor
3. Margin = Emission Level- Limit.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. '!' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.



## 7. BANDWIDTH TEST

1. Set RBW = 3 Hz for 1%-5%OBW.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

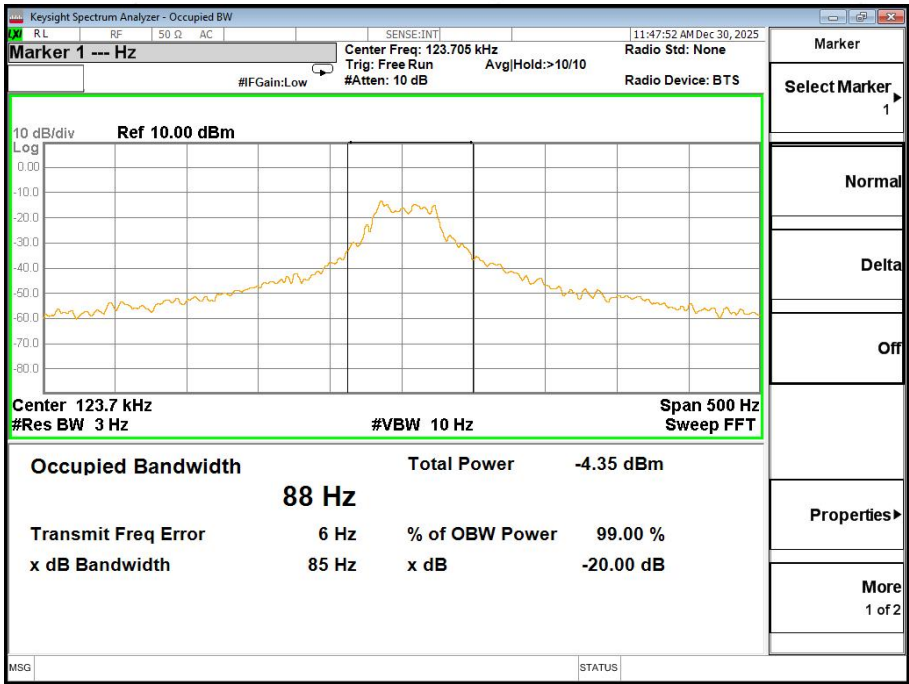
### TEST SETUP



|              |         |                    |     |
|--------------|---------|--------------------|-----|
| Temperature: | 25.7 °C | Relative Humidity: | 55% |
| Pressure:    | 1014kPa |                    |     |

|            | Frequency<br>(KHz) | 20dB bandwidth<br>(KHz) | Result |
|------------|--------------------|-------------------------|--------|
| Watch coil | 123.7              | 0.085                   | Pass   |

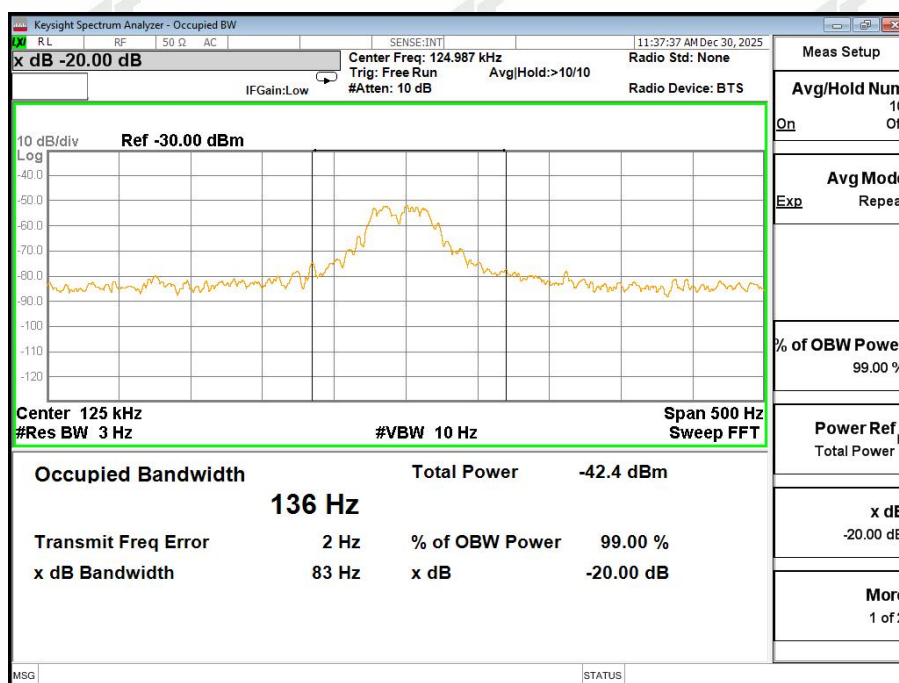
Mobile coil



|              |         |                    |     |
|--------------|---------|--------------------|-----|
| Temperature: | 25.7 °C | Relative Humidity: | 55% |
| Pressure:    | 1014kPa |                    |     |

|           | Frequency<br>(KHz) | 20dB bandwidth<br>(KHz) | Result |
|-----------|--------------------|-------------------------|--------|
| Headphone | 125                | 0.083                   | Pass   |

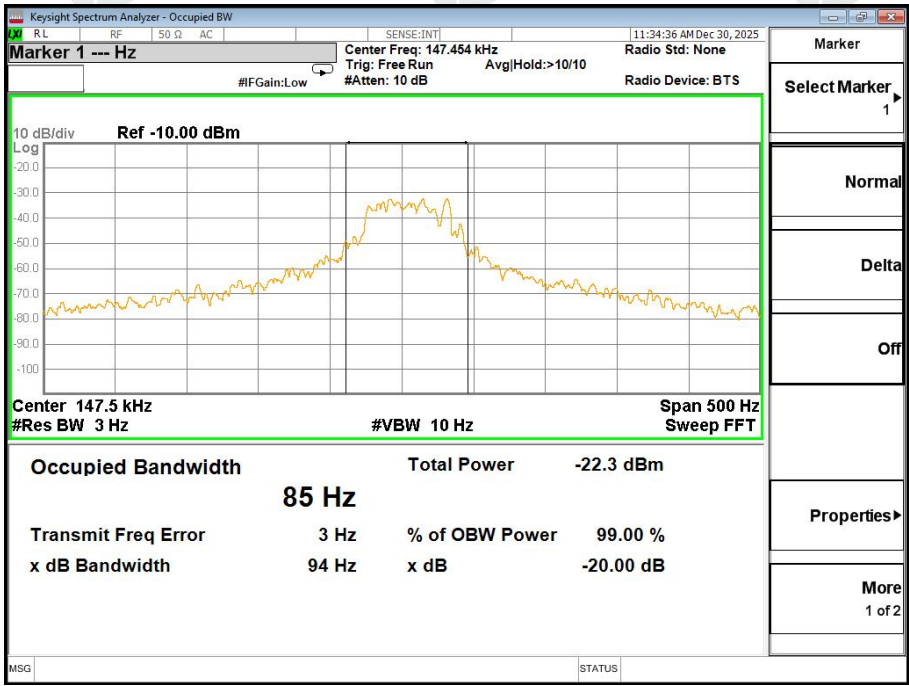
#### Mobile coil



|              |         |                    |     |
|--------------|---------|--------------------|-----|
| Temperature: | 25.7 °C | Relative Humidity: | 55% |
| Pressure:    | 1014kPa |                    |     |

|       | Frequency (KHz) | 20dB bandwidth (KHz) | Result |
|-------|-----------------|----------------------|--------|
| Phone | 147.5           | 0.094                | Pass   |

Mobile coil



## 8. ANTENNA REQUIREMENT

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Standard requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC Part15 C Section 15.203 |
| 15.203 requirement:<br>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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |                             |
| EUT Antenna:                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |
| The antenna is Inductive loop coil Antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details                                                                                                                                                                                                                                                                                                                                          |                             |

## 9. TEST SETUP PHOTO

Reference to the appendix I for details.

## 10. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

\*\*\*\*\* END OF REPORT \*\*\*\*\*