

# FCC Test Report

**Report No.** : 9812C50022112501

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**Applicant** : Ecosense Ltd

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**Address** : 4, The Capricorn Centre, Cranes Farm Rd,  
Basildon SS14 3JJ, United Kingdom

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**Product Name** : DOOR Sensor

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**Report Date** : 2026-02-07

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**Shenzhen Anbotek Compliance Laboratory Limited**



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## TEST REPORT

Applicant : Ecosense Ltd  
Manufacturer : Ecosense Ltd  
Product Name : DOOR Sensor  
Model No. : DOOR Sensor  
Trade Mark : N/A  
Rating(s) : Input: AC 100V-240V, 0.2A

**Test Standard(s) : 47 CFR Part 15.231**

**Test Method(s) : ANSI C63.10: 2020**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.231 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2025-12-05

Date of Test 2025-12-05 to 2026-02-06

Prepared by



(Lene Chen)

Approved & Authorized Signer



(Hugo Chen)

Revision History

| Report Version | Description     | Issued Date |
|----------------|-----------------|-------------|
| R00            | Original Issue. | 2026-02-07  |
|                |                 |             |
|                |                 |             |

## 1. General Information

### 1.1. Client Information

|              |   |                                                                                                                                        |
|--------------|---|----------------------------------------------------------------------------------------------------------------------------------------|
| Applicant    | : | Ecosense Ltd                                                                                                                           |
| Address      | : | 4, The Capricorn Centre, Cranes Farm Rd, Basildon SS14 3JJ, United Kingdom                                                             |
| Manufacturer | : | Ecosense Ltd                                                                                                                           |
| Address      | : | 4, The Capricorn Centre, Cranes Farm Rd, Basildon SS14 3JJ, United Kingdom                                                             |
| Factory      | : | BXT TECHNOLOGY CO., LTD.                                                                                                               |
| Address      | : | Floor 6, Building 2, Changxing Science and Technology Park, Shayi Community, SHAJING TOWN, Baoan District, Shenzhen, 518104, P.R.CHINA |

### 1.2. Description of Device (EUT)

|                                                                                                                                                                                              |   |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------|
| Product Name                                                                                                                                                                                 | : | DOOR Sensor                                     |
| Model No.                                                                                                                                                                                    | : | DOOR Sensor                                     |
| Trade Mark                                                                                                                                                                                   | : | N/A                                             |
| Test Power Supply                                                                                                                                                                            | : | DC 3V battery inside                            |
| Test Sample No.                                                                                                                                                                              | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter                                                                                                                                                                                      | : | N/A                                             |
| <b>RF Specification</b>                                                                                                                                                                      |   |                                                 |
| Operation Frequency                                                                                                                                                                          | : | 433.92MHz                                       |
| Number of Channel                                                                                                                                                                            | : | 1 Channel                                       |
| Modulation Type                                                                                                                                                                              | : | ASK                                             |
| Antenna Type                                                                                                                                                                                 | : | Single-stage Antenna                            |
| <b>Remark:</b> 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |                                                 |

1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|-------|--------------|-----------|------------|
| /     | /            | /         | /          |

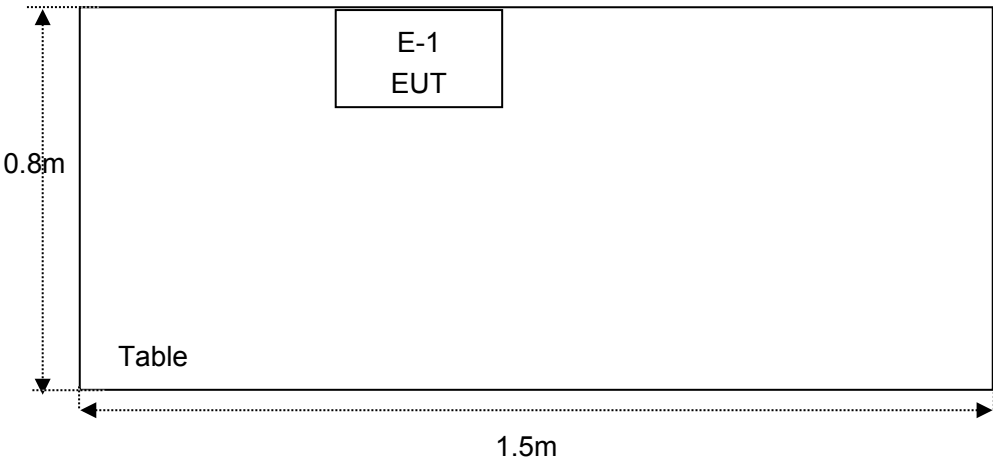
1.4. Description of Test Configuration

The engineering test program was provided and the EUT was programmed to be in transmitting mode.

| Channel | Freq.(MHz) |
|---------|------------|
| 01      | 433.92     |

1.5. Description of Test Setup

RE



### 1.6. Test Equipment List

| Item | Equipment                                   | Manufacturer    | Model No.     | Last Cal.                | Cal. Interval |
|------|---------------------------------------------|-----------------|---------------|--------------------------|---------------|
| 1.   | L.I.S.N.<br>Artificial Mains Network        | Rohde & Schwarz | ENV216        | 2025-09-05               | 1 Year        |
| 2.   | Three Phase V-type Artificial Power Network | CYBERTEK        | EM5040DT      | 2025-01-13<br>2025-12-30 | 1 Year        |
| 3.   | EMI Test Receiver                           | Rohde & Schwarz | ESCI          | 2025-01-13<br>2025-12-30 | 1 Year        |
| 4.   | EMI Test Receiver                           | Rohde & Schwarz | ESR26         | 2025-01-14<br>2025-12-30 | 1 Year        |
| 5.   | MXA Spectrum Analysis                       | Agilent         | N9020A        | 2025-09-05               | 1 Year        |
| 6.   | EMI Preamplifier                            | SKET Electronic | LNPA-0118G-45 | 2025-01-13<br>2025-12-30 | 1 Year        |
| 7.   | Double Ridged Horn Antenna                  | SCHWARZBECK     | BBHA 9120D    | 2025-09-05               | 3 Year        |
| 8.   | Bilog Broadband Antenna                     | Schwarzbeck     | VULB9163      | 2025-09-05               | 3 Year        |
| 9.   | Loop Antenna(9K-30M)                        | Schwarzbeck     | FMZB1519B     | 2025-09-05               | 1 Year        |
| 10.  | Horn Antenna                                | A-INFO          | LB-180400-KF  | 2024-01-22               | 3 Year        |
| 11.  | Pre-amplifier                               | SONOMA          | 310N          | 2025-01-14<br>2025-12-30 | 1 Year        |
| 12.  | EMI Test Software<br>EZ-EMC                 | SHURPLE         | N/A           | N/A                      | N/A           |
| 13.  | MXA Spectrum Analysis                       | KEYSIGHT        | N9020A        | 2025-09-05               | 1 Year        |
| 14.  | MXG RF Vector Signal Generator              | Agilent         | N5182A        | 2025-01-14<br>2025-12-29 | 1 Year        |
| 15.  | Signal Generator                            | Agilent         | E4421B        | 2025-02-21               | 1 Year        |
| 16.  | DC Power Supply                             | IVYTECH         | IV3605        | 2025-09-05               | 1 Year        |
| 17.  | Constant Temperature Humidity Chamber       | ZHONGJIAN       | ZJ-KHWS80B    | 2025-10-10               | 1 Year        |
| 18.  | Spectrum Analyzer                           | Rohde & Schwarz | FSV40-N       | 2025-04-25               | 1 Year        |

### 1.7. Measurement Uncertainty

| Parameter                                                                                                                                                                                                                       | Uncertainty                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz)                                                                                                                                                                                          | 3.2dB                                                    |
| Occupied Bandwidth                                                                                                                                                                                                              | 925Hz                                                    |
| Duty Cycle                                                                                                                                                                                                                      | 5%                                                       |
| Dwell Time                                                                                                                                                                                                                      | 2%                                                       |
| Conducted Spurious Emission                                                                                                                                                                                                     | 1.24dB                                                   |
| Radiated spurious emissions (Below 30MHz)                                                                                                                                                                                       | 3.26dB                                                   |
| Radiated spurious emissions (30MHz~1GHz)                                                                                                                                                                                        | Horizontal: 3.70dB; Vertical: 4.42dB                     |
| Radiated spurious emissions (above 1GHz)                                                                                                                                                                                        | 1G-6GHz: 4.64dB<br>6G-18GHz: 4.82dB<br>18G-40GHz: 5.62dB |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.<br>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                                          |

### 1.8. Description of Test Facility

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

#### FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

### 1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2. Summary of Test Results

| Standard Section                                            | Test Item                                                                    | Result |
|-------------------------------------------------------------|------------------------------------------------------------------------------|--------|
| 15.203                                                      | Antenna Requirement                                                          | PASS   |
| 15.207                                                      | Conducted Emission                                                           | N/A    |
| 15.205/15.209/15.231(b)                                     | Radiated emission,<br>Spurious Emission and<br>Field Strength of Fundamental | PASS   |
| 15.231(c)                                                   | 20dB Occupied Bandwidth                                                      | PASS   |
| 15.231(a)(1)                                                | Transmission Cease Time                                                      | N/A    |
| <b>Remark:</b> "N/A" is an abbreviation for Not Applicable. |                                                                              |        |

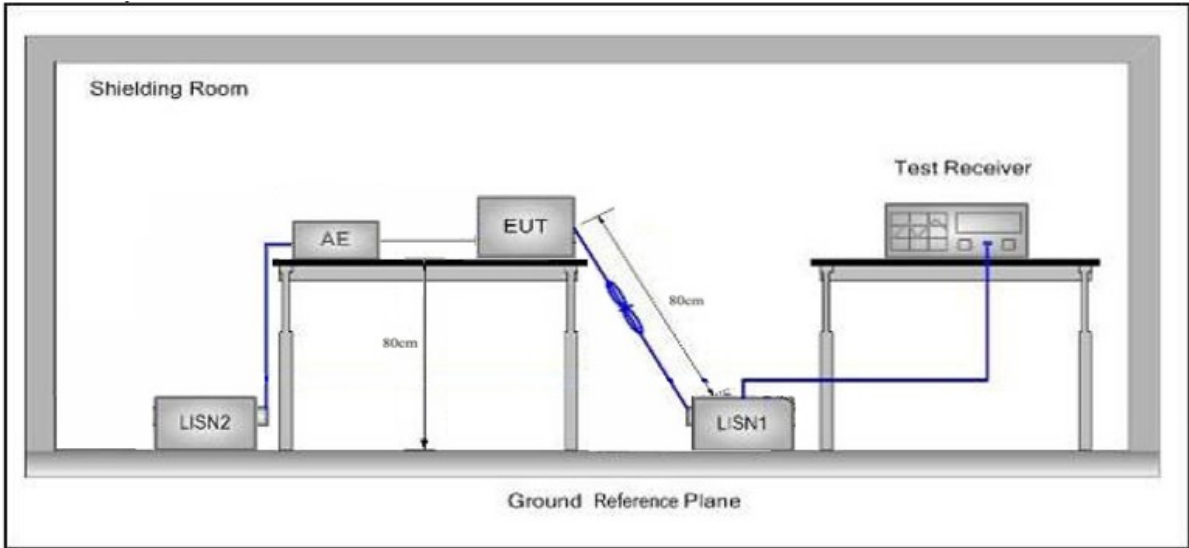
### 3. Conducted Emission Test

#### 3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.207 |                                |               |
|---------------|---------------------------|--------------------------------|---------------|
| Test Limit    | Frequency                 | Maximum RF Line Voltage (dBuV) |               |
|               |                           | Quasi-peak Level               | Average Level |
|               | 150kHz~500kHz             | 66 ~ 56 *                      | 56 ~ 46 *     |
|               | 500kHz~5MHz               | 56                             | 46            |
|               | 5MHz~30MHz                | 60                             | 50            |

**Remark:** (1) \*Decreasing linearly with logarithm of the frequency.  
(2) The lower limit shall apply at the transition frequency.

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test CAR REMOTE (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

Not applicable for equipment operated with DC power supply.

## 4. Field Strength of Fundamental and Spurious Emission

### 4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.209, 15.205 and 15.231(b) |                                  |                |            |                          |
|---------------|---------------------------------------------------|----------------------------------|----------------|------------|--------------------------|
| Test Limit    | Frequency (MHz)                                   | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|               | 0.009MHz~0.490MHz                                 | 2400/F(kHz)                      | -              | -          | 300                      |
|               | 0.490MHz-1.705MHz                                 | 24000/F(kHz)                     | -              | -          | 30                       |
|               | 1.705MHz-30MHz                                    | 30                               | -              | -          | 30                       |
|               | 30MHz~88MHz                                       | 100                              | 40.0           | Quasi-peak | 3                        |
|               | 88MHz~216MHz                                      | 150                              | 43.5           | Quasi-peak | 3                        |
|               | 216MHz~960MHz                                     | 200                              | 46.0           | Quasi-peak | 3                        |
|               | 960MHz~1000MHz                                    | 500                              | 54.0           | Quasi-peak | 3                        |
|               | Above 1000MHz                                     | 500                              | 54.0           | Average    | 3                        |
|               |                                                   | -                                | 74.0           | Peak       | 3                        |

**Remark:**

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

the formulas for calculating the maximum permitted fundamental field strengths are as follows:

for the band 260-470 MHz,  $\mu\text{V/m}$  at 3 meters =  $41.6667(F) - 7083.3333$ .

The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level Emission Level (dBuV/m)=20log Emission Level( $\mu\text{V/m}$ )

The field strength of emission limits have been calculated in below table:

| Fundamental Frequency (MHz) | Field Strength of Fundamental (dBuV/m)@3m |
|-----------------------------|-------------------------------------------|
| 433.92                      | 80.82 (AVG)                               |
| 433.92                      | 100.82 (Peak)                             |

## 4.2. Test Setup

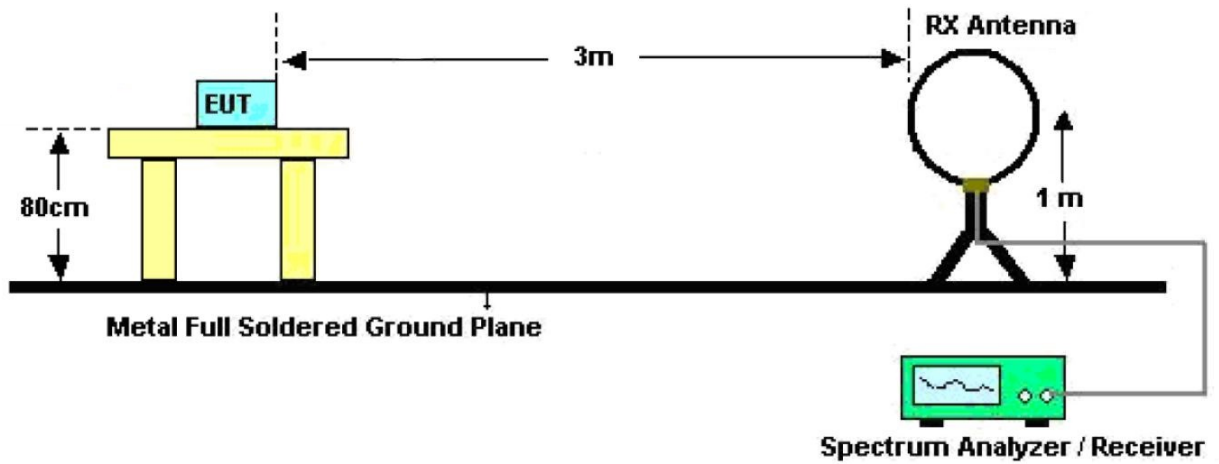


Figure 1. Below 30MHz

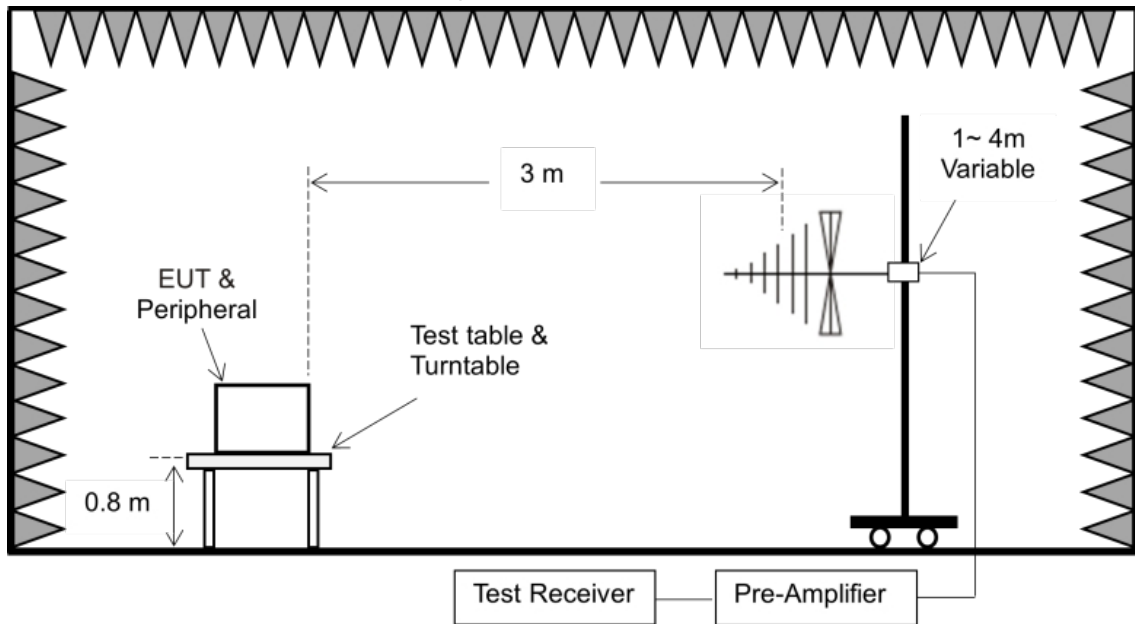


Figure 2. 30MHz to 1GHz

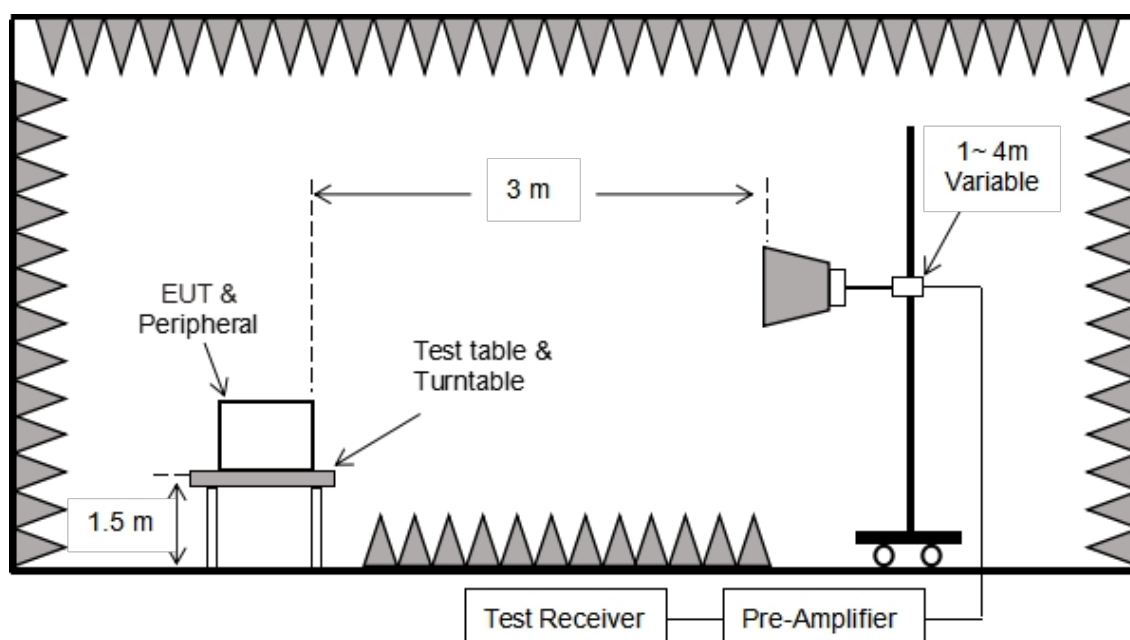


Figure 3. Above 1 GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

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 be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

### 4.4. Test Data

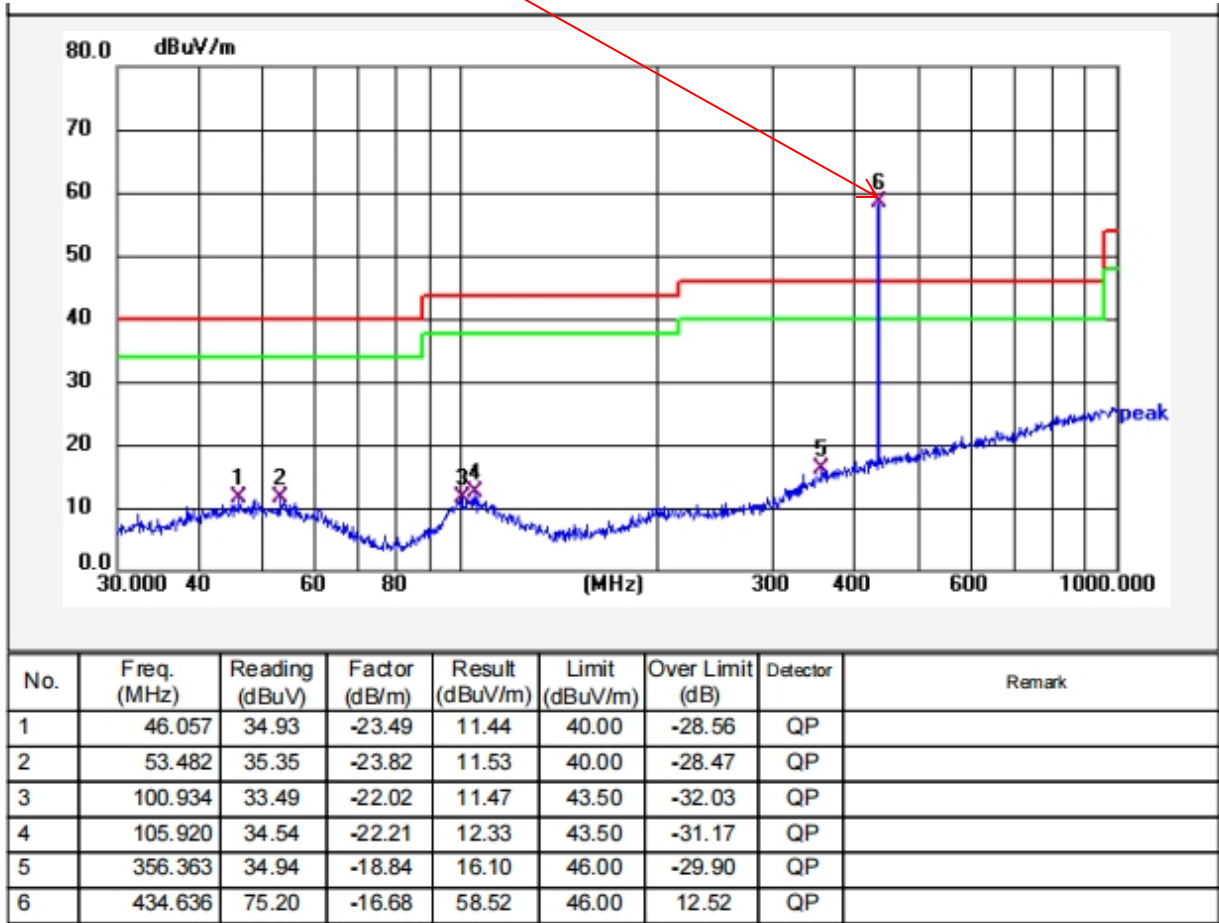
#### PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Test Results (30~1000MHz)**

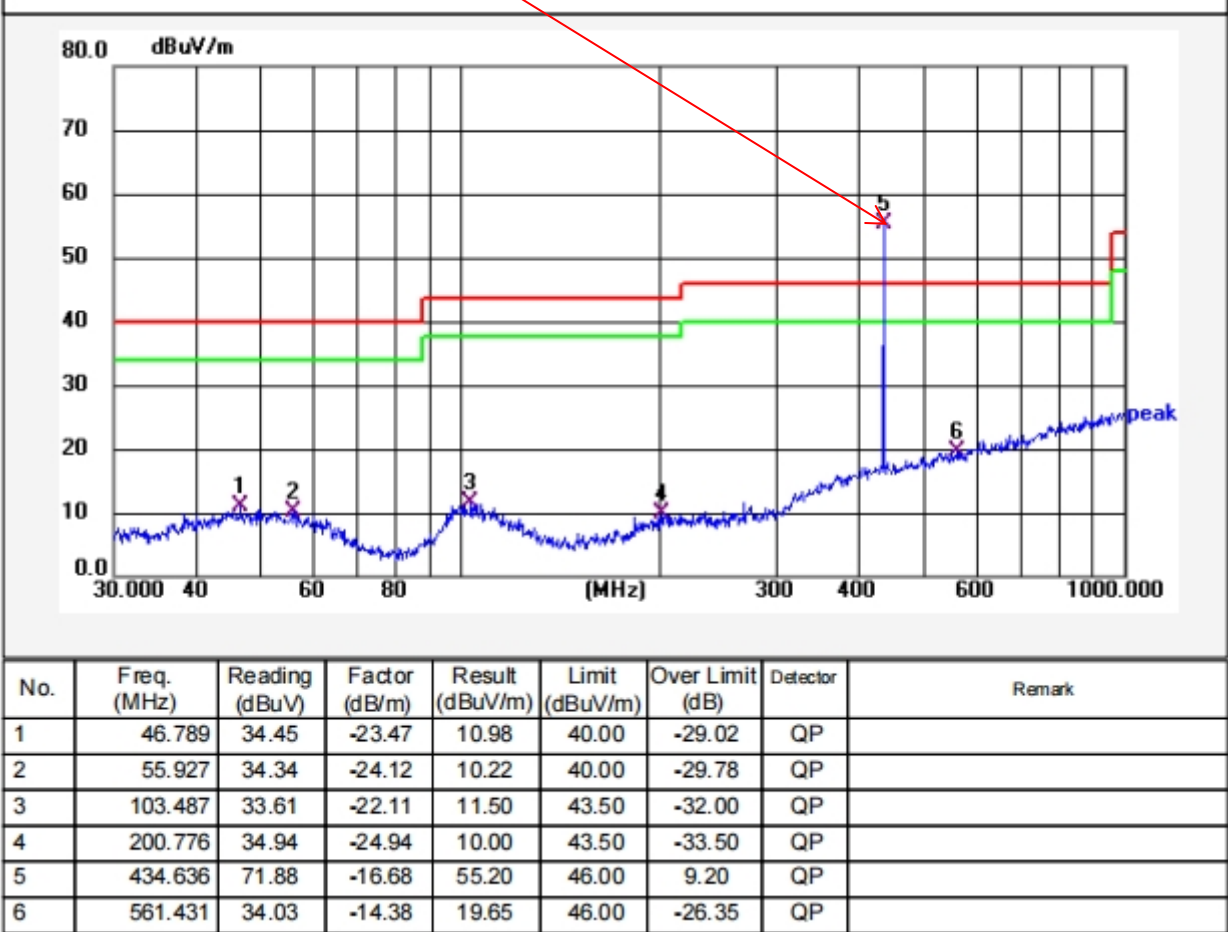
Test Mode: 433.92MHz  
Power Source: DC 3V battery inside  
Polarization: Horizontal  
Temp.(°C)/Hum.(%RH): 23.5°C/55%RH  
Fundamental



Note: Result(dBμV/m)=Reading(dBμV)+Factor(dB/m);  
OverLimit(dB)=Result(dBμV/m)-Limit(dBμV/m)

**Test Results (30~1000MHz)**

Test Mode: 433.92MHz  
Power Source: DC 3V battery inside  
Polarization: Vertical  
Temp.(°C)/Hum.(%RH): 23.4°C/55%RH  
Fundamental



Note: Result(dBμV/m)=Reading(dBμV)+Factor(dB/m);  
OverLimit(dB)=Result(dBμV/m)-Limit(dBμV/m)

| Test Results (Fundamental)                        |             |              |                  |             |                        |                  |                 |           |
|---------------------------------------------------|-------------|--------------|------------------|-------------|------------------------|------------------|-----------------|-----------|
| Mode                                              | Freq. (MHz) | Antenna Pol. | Reading (dBuV/m) | Factor (dB) | Duty cycle Factor (dB) | Results (dBuV/m) | Limits (dBuV/m) | Det. Mode |
| TX Mode                                           | 433.92      | H            | 75.2             | -16.68      | --                     | 58.52            | 100.82          | PK        |
|                                                   | 433.92      | H            | 75.2             | -16.68      | -20.6                  | 37.92            | 80.82           | AV        |
|                                                   | 433.92      | V            | 71.88            | -16.68      | --                     | 55.20            | 100.82          | PK        |
|                                                   | 433.92      | V            | 71.88            | -16.68      | -20.6                  | 34.60            | 80.82           | AV        |
| Remark:                                           |             |              |                  |             |                        |                  |                 |           |
| 1. Results = Reading + Factor + Duty cycle Factor |             |              |                  |             |                        |                  |                 |           |

| Test Results (Harmonics Emissions+Radiated Emissions from 1G-4G)                                                                      |              |                  |             |                        |                  |                 |           |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------------|------------------------|------------------|-----------------|-----------|
| Test Mode: 433.92MHz                                                                                                                  |              |                  |             |                        |                  |                 |           |
| Frequency (MHz)                                                                                                                       | Antenna Pol. | Reading (dBuV/m) | Factor (dB) | Duty cycle Factor (dB) | Results (dBuV/m) | Limits (dBuV/m) | Det. Mode |
| 867.8400                                                                                                                              | H            | 64.25            | -7.54       | --                     | 56.71            | 80.82           | PK        |
| 867.8400                                                                                                                              | H            | 64.25            | -7.54       | -20.6                  | 36.11            | 60.82           | AV        |
| 867.8400                                                                                                                              | V            | 62.34            | -7.31       | --                     | 55.03            | 80.82           | PK        |
| 867.8400                                                                                                                              | V            | 62.34            | -7.31       | -20.6                  | 34.43            | 60.82           | AV        |
| 1301.7600                                                                                                                             | H            | 55.26            | -5.63       | --                     | 49.63            | 74.00           | PK        |
| 1301.7600                                                                                                                             | H            | 55.26            | -5.63       | -20.6                  | 29.03            | 54.00           | AV        |
| 1301.7600                                                                                                                             | V            | 54.23            | -5.58       | --                     | 48.65            | 74.00           | PK        |
| 1301.7600                                                                                                                             | V            | 54.23            | -5.58       | -20.6                  | 28.05            | 54.00           | AV        |
| Remark:                                                                                                                               |              |                  |             |                        |                  |                 |           |
| 1. Result = Reading + Factor + Duty cycle Factor                                                                                      |              |                  |             |                        |                  |                 |           |
| 2. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. |              |                  |             |                        |                  |                 |           |

**Pulse Desensitization Correction Factor**

| Mode    | Freq. (MHz) | Pulse Width (ms) | 2/Pulse Width (kHz) |
|---------|-------------|------------------|---------------------|
| TX Mode | 433.92      | 60               | 0.033               |

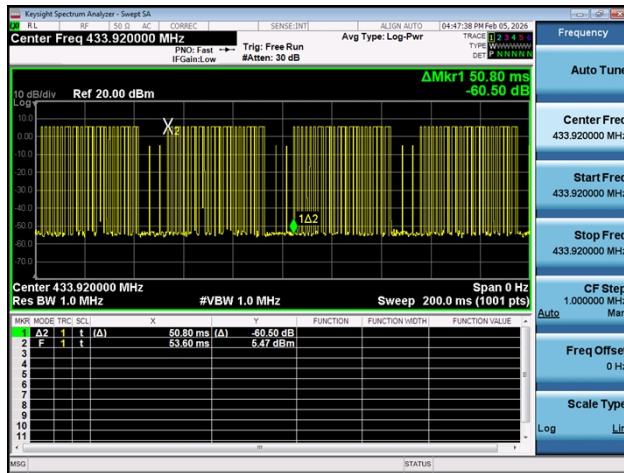
**Duty Cycle Factor**

| Mode    | Freq. (MHz) | T on1 (ms) | T on2 (ms) | T period(ms) | Duty Cycle | Duty Cycle Factor |
|---------|-------------|------------|------------|--------------|------------|-------------------|
| TX Mode | 433.92      | 0.48*2     | 1.26*3     | 50.8         | 9.33%      | -20.6             |

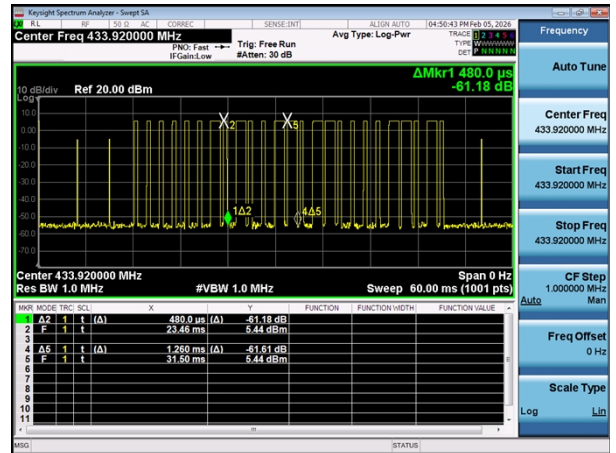
Remark:

1.  $T_{on} = T_{on1} + T_{on2}$
2.  $Duty\ Cycle = T_{on} / T_{period}$
3.  $Duty\ Cycle\ Factor = 20 * \lg(Duty\ Cycle)$

T period



T on

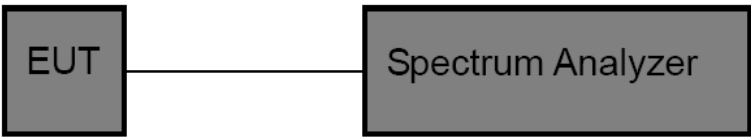


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

|               |                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Standard | FCC Part15 C Section 15.231 (c)                                                                                                                                                                                                                                                                                                                           |
| Test Limit    | According to FCC Part 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier. |

5.2. Test Setup



5.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:  
RBW = 1% to 5% of the OBW, VBW≥3\*RBW,  
Span= 2\*OBW~5\*OBW  
Detector= Peak  
Trace mode= Max hold.  
Sweep- auto couple.
4. Mark the peak frequency and –20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

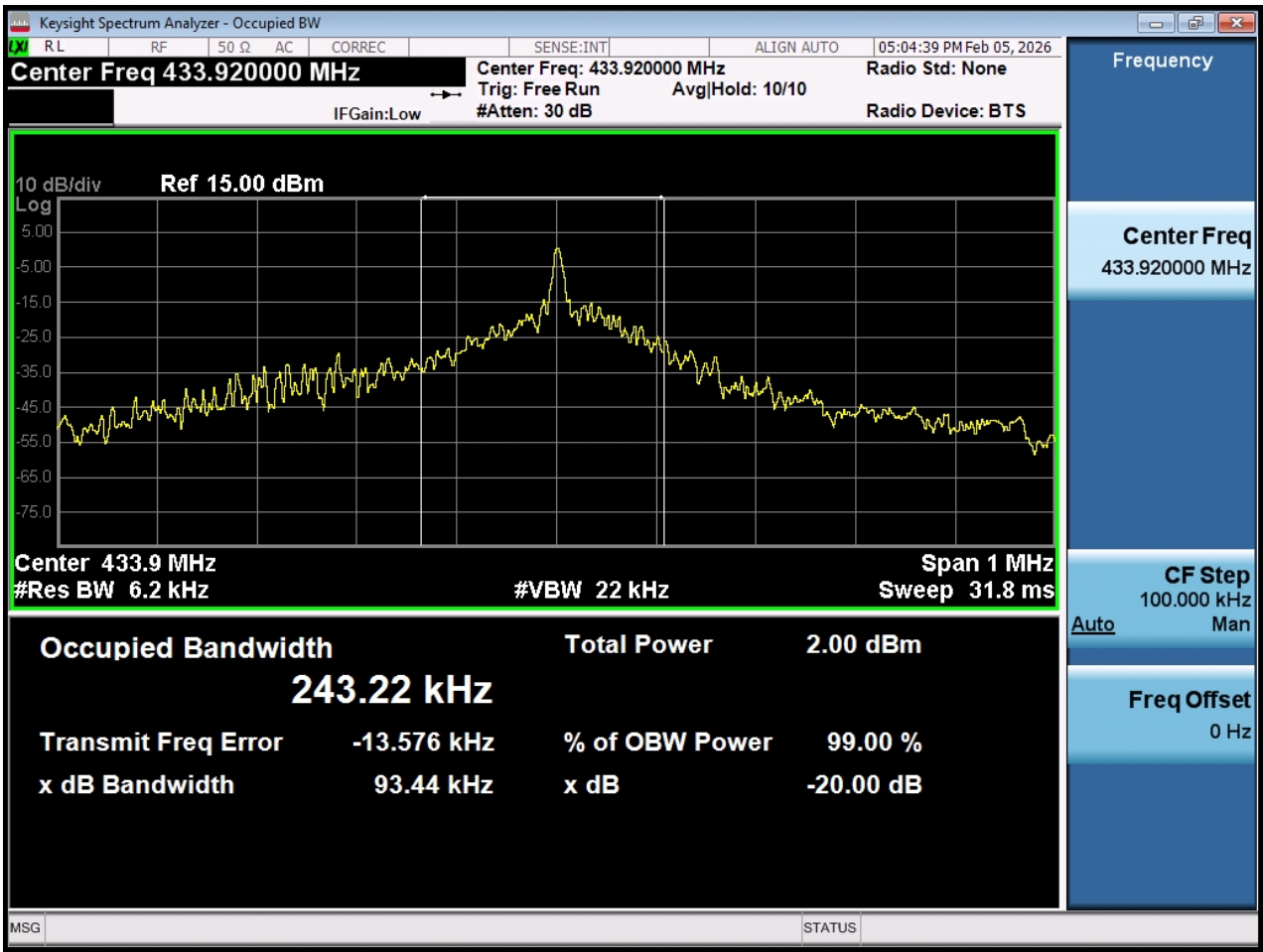
5.4. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 48 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| Mode    | Freq.<br>(MHz) | 20dB Bandwidth<br>(kHz) | Limit<br>(kHz) | Results |
|---------|----------------|-------------------------|----------------|---------|
| TX Mode | 433.92         | 93.44                   | ≤1084.8        | PASS    |

Note: Limit=0.0025\*Freq.

20dB Bandwidth

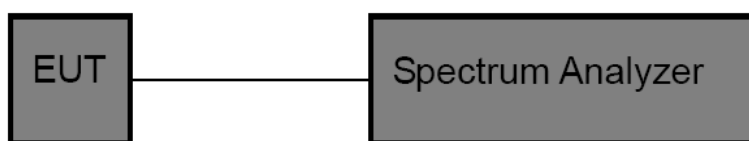


## 6. Transmission Cease Time Test

### 6.1. Test Standard and Limit

|               |                                                                                                                                                                                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Standard | FCC Part 15.231(a)                                                                                                                                                                                                                                                                                                      |
| Test Limit    | <p>According to FCC Part 15.231(a)</p> <p>(1)A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.</p> <p>(2)A transmitter activated automatically shall cease transmission within 5 seconds after activation.</p> |

### 6.2. Test Setup



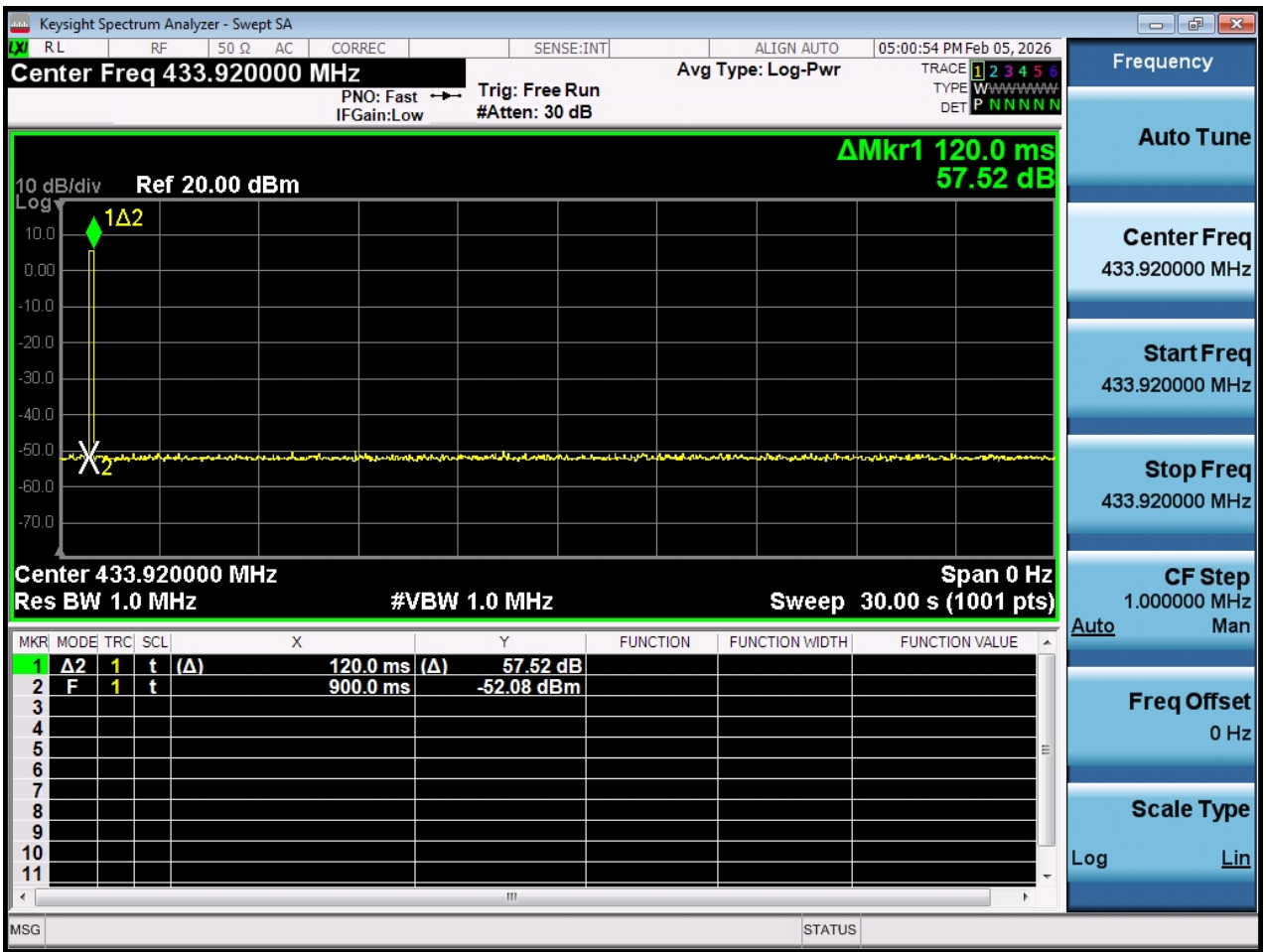
### 6.3. Test Procedure

- Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- Set the spectrum analyzer as
  - RBW= 1MHz
  - VBW= 1MHz
  - Span= 0Hz
  - Sweep Time= 30 Seconds.
- Record the Delta mark time.

6.4. Test Data

|              |                |                         |          |                       |         |
|--------------|----------------|-------------------------|----------|-----------------------|---------|
| Temperature: | 25.3 °C        | Humidity:               | 48 %     | Atmospheric Pressure: | 101 kPa |
| Mode         | Freq.<br>(MHz) | Transmitting<br>time(s) | Limit(s) | Results               |         |
| TX Mode      | 433.92         | 0.12                    | ≤5       | PASS                  |         |

433.92 MHz



## 7. Antenna Requirement

### 7.1. Test Standard and Requirement

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Standard | FCC Part15 Section 15.203                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Requirement   | 1) 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. |

### 7.2. Antenna Connected Construction

The antenna is a Single-stage Antenna which permanently attached. It complies with the standard requirement.

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

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