



Report No.: 86260430708

Date: May 23, 2026

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## RF TEST REPORT

**Applicant :** Dongguan AOSIKAI Electronic Technology Co., Ltd

**Address:** Room 301, No. 124, Shidan North Road, Shijie Town, Dongguan City, Guangdong, China

**Manufacturer:** Dongguan AOSIKAI Electronic Technology Co., Ltd

**Address:** Room 301, No. 124, Shidan North Road, Shijie Town, Dongguan City, Guangdong, China

**EUT Name:** remote control

**Trade mark:** /

**Model:** ASK-R001, ASK-R0010, ASK-R009, ASK-R008, ASK-R007, ASK-R006, ASK-R005, ASK-R004, ASK-R003, ASK-R002

**FCC ID:** 2BV9E-ASKR001

**Power supply:** DC 1.5V\*2, AAA

**Sample Received Date:** Apr. 30, 2026

**Test Date:** Apr. 30, 2026~May 15, 2026

**Applicable Standards:** FCC 47, CFR Part 15.231

**Test Result** Pass

Prepared by:

*Evan Fang*

Evan Fang/Project Engineer

Approved by:

*Bruce Zhang*

Bruce Zhang/Technical Manager

### HD Testing Technology (GuangDong) Co., Ltd.

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### Revision History

| Version | Date of Issue | Description      |
|---------|---------------|------------------|
| V00     | May 23, 2026  | Original Version |

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## 1. TEST SUMMARY

| FCC Part 15C         | Description of Test                                           | Result |
|----------------------|---------------------------------------------------------------|--------|
| 15.203               | Antenna Requirement                                           | Pass   |
| 15.231(a)            | Manually Activated Transmitter                                | Pass   |
| 15.231(c)            | 20dB and 99% Bandwidth                                        | Pass   |
| 15.231(b)& 15.231(b) | Field Strength of Fundamental and Radiated Spurious Emissions | Pass   |
| --                   | Duty cycle                                                    | Pass   |
| 15.207               | Conducted Emission on AC Mains                                | N/A    |

Note:N/A means not applicable.

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## 2. TEST SITE

### 2.1. Test Facility

HD Testing Technology (GuangDong) Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

### 2.2. Measurement Uncertainty

| Parameter                        | Uncertainty        |
|----------------------------------|--------------------|
| Conducted Emission(150KHz-30MHz) | $\pm 3.2\text{dB}$ |
| Radiated Emission(9kHz-30MHz)    | $\pm 3.5\text{dB}$ |
| Radiated Emission(30MHz-1GHz)    | $\pm 4.7\text{dB}$ |
| Radiated Emission (1GHz-6GHz)    | $\pm 5.1\text{dB}$ |
| Radiated Emission (6GHz-18GHz)   | $\pm 5.1\text{dB}$ |
| Bandwidth                        | $\pm 70\text{Hz}$  |

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

### 2.3. Test Environment Condition

|                            |         |
|----------------------------|---------|
| Ambient Temperature:       | 24~25°C |
| Ambient Relative Humidity: | 55~60 % |

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### 3. TEST EQUIPMENT LIST

| Equipment                                       | Manufacturer                                       | Model      | Equipment No. | Cal. Date    | Cal. Interval |
|-------------------------------------------------|----------------------------------------------------|------------|---------------|--------------|---------------|
| EMI Test Receiver                               | Rohde&Schwarz                                      | ESCI       | HDT-EM-003    | Mar. 02,2026 | 1 Year        |
| Pulse limiter                                   | Rohde&Schwarz                                      | ESH3-Z2    | HDT-EM-001    | Mar. 02,2026 | 1 Year        |
| LISN                                            | Rohde&Schwarz                                      | ENV216     | HDT-EM-002    | Mar. 02,2026 | 1 Year        |
| Shielding Room                                  | Taihe Mao Rui<br>Electronic<br>Equipment Co., Ltd. | 8m*4m*4m   | HDT-EM-030    | Oct. 12,2024 | 5 Year        |
| EMI Test Receiver                               | Rohde&Schwarz                                      | ESCI7      | HDT-EM-005    | Mar. 02,2026 | 1 Year        |
| Logarithmic<br>Periodic<br>Broadband<br>Antenna | SCHWARZBECK                                        | VULB9168   | HDT-EM-009    | Mar. 06,2025 | 3 Year        |
| Preamplifier                                    | HP                                                 | 8447F      | HDT-EM-010    | Mar. 02,2026 | 1 Year        |
| Horn Antenna                                    | SCHWARZBECK                                        | BBHA 9120D | HDT-EM-039    | Mar. 06,2025 | 3 Year        |
| Loop Antenna                                    | Da Ze                                              | ZN30900C   | HDT-EM-053    | May 16,2025  | 3 Year        |
| Preamplifier                                    | /                                                  | 1-18-53G22 | HDT-EM-040    | Mar. 02,2026 | 1 Year        |
| Anechoic<br>Chamber                             | Taihe Mao Rui<br>Electronic<br>Equipment Co., Ltd. | 9m*6m*6m   | HDT-EM-030    | Oct. 12,2024 | 5 Year        |
| Signal Analyzer                                 | Keysight                                           | N9020A     | HDT-EM-038    | Mar. 02,2026 | 1 Year        |
| Spectrum<br>Analyzer                            | Rohde&Schwarz                                      | FSV-40N    | HDT-EM-069    | Mar. 02,2026 | 1 Year        |

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|                          |                |                                 |               |             |        |
|--------------------------|----------------|---------------------------------|---------------|-------------|--------|
| 18-40GHz<br>Antenna      | COM-MW         | ZLB7-18-40G-7<br>77             | HDT-EM-076    | May 19,2025 | 1 Year |
| 18-40GHz<br>Preamplifier | QUANJUDA       | LNA-18004000-<br>50G35          | HDT-EM-077    | May 17,2025 | 1 Year |
| Filter                   | WCS Technology | ZBSF6-C2400-2<br>483.5-294      | HDT-EM-070    | May 17,2025 | 1 Year |
| RF Cable                 | Rosenberger    | /                               | HDT-EM-078    | May 17,2025 | 3 Year |
| RF Cable                 | COM-MW         | DCA9-2.92M800<br>02.92M3.6-1304 | HDT-EM-079    | May 17,2025 | 3 Year |
| EMI Test<br>Software     | Tonscend       | JS32-CE                         | Version 5.0.0 |             |        |
| EMI Test<br>Software     | Tonscend       | JS32-RE                         | Version 5.0.0 |             |        |

Note:The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

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#### 4. EUT DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Product</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | remote control                                                                            |
| <b>Test Model</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASK-R001                                                                                  |
| <b>Additional Model</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASK-R0010, ASK-R009, ASK-R008, ASK-R007, ASK-R006, ASK-R005, ASK-R004, ASK-R003, ASK-R002 |
| <b>Rating</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DC 1.5V*2, AAA                                                                            |
| <b>FCC ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2BV9E-ASKR001                                                                             |
| <b>Antenna Type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PCB Antenna                                                                               |
| <b>Antenna Gain</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 dBi                                                                                     |
| <b>Operation Frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 433.92MHz                                                                                 |
| <b>Number of Channels:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                                                                         |
| <b>Modulation Type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASK                                                                                       |
| <p>Note:</p> <ol style="list-style-type: none"> <li>1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.</li> <li>2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.</li> <li>3) The product model ASK-R001 is the same PCB layout, electronic schematic and Antenna with ASK-R0010, ASK-R009, ASK-R008, ASK-R007, ASK-R006, ASK-R005, ASK-R004, ASK-R003, ASK-R002. Only the models are not difference which not influence the RF specification.</li> <li>4) The test results in the report only apply to the tested sample.</li> </ol> |                                                                                           |

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#### 4.1. Description of Test Configuration

##### Channel List :

| Channel<br>No. | Frequency<br>(MHz) |
|----------------|--------------------|
| 1              | 433.92             |

#### 4.2. Equipment Modifications

Any modifications installed previous to testing by Dongguan AOSIKAI Electronic Technology Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by HDT Testing Technology Co., Ltd.

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## 5. TEST METHODOLOGY

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020.

### 5.1. EUT System Operation

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered DC 3V by battery during the test.

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## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1. 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.

#### Support Equipment

| No. | Equipment | Model | Serial No. | Manufacturer |
|-----|-----------|-------|------------|--------------|
| 1   | /         | /     | /          | /            |
| 2   | /         | /     | /          | /            |

#### Support Cable

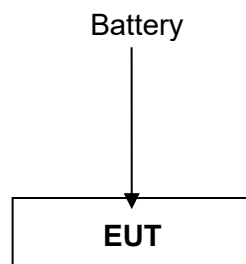
| No. | Description | Shield | Length | Manufacturer |
|-----|-------------|--------|--------|--------------|
| 1   | /           | /      | /      | /            |
| 2   | /           | /      | /      | /            |

Note:

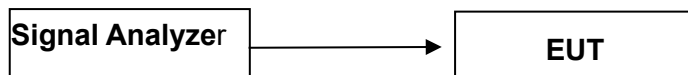
- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 6.2. Block Diagram of EUT Configuration

radiated emission configuration



RF Conducted configuration



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### 6.3. EUT Exercise Software

Test software: This product transmits signals at a fixed frequency through key presses.

| Mode | Frequency | Power setting |
|------|-----------|---------------|
| FSK  | 433.92    | default       |

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## 7. TEST RESULTS AND MEASUREMENT DATA

### 7.1. Antenna Requirement

|                          |                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | <p>FCC Part Part 15.203</p> <p>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 shall be considered sufficient to comply with the provisions of this section.</p> |
| <b>Test Result:</b>      | <p>According to the manufacturer declared, the EUT has a PCB antenna, the directional gain of antenna is 4dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.</p> <p>Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.</p>                                           |

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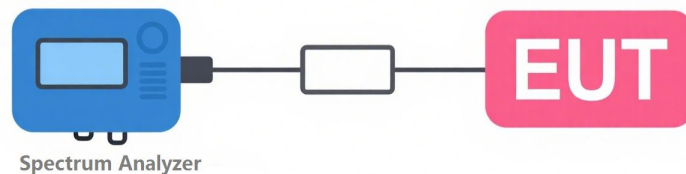
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## 7.2. MANUALLY ACTIVATED TRANSMITTER

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15.231 (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Limit:</b>            | A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.                                                                                                                                                                                                                                                                                                          |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Use the following spectrum analyzer settings RBW =100KHz, VBW&gt;RBW; Span =0; Sweep Time &gt; T(on)+5S; Detector function = peak;</li> <li>4. Measure and record the results in the test report.</li> </ol> |
| <b>Test Result:</b>      | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### 7.2.1. Test Setup



### 7.2.2. Test Result

| TEST Frequency (MHz) | Manually Activated Transmitter (s) | Limit(s) | Result |
|----------------------|------------------------------------|----------|--------|
| 433.92               | 0.19                               | 5        | Pass   |

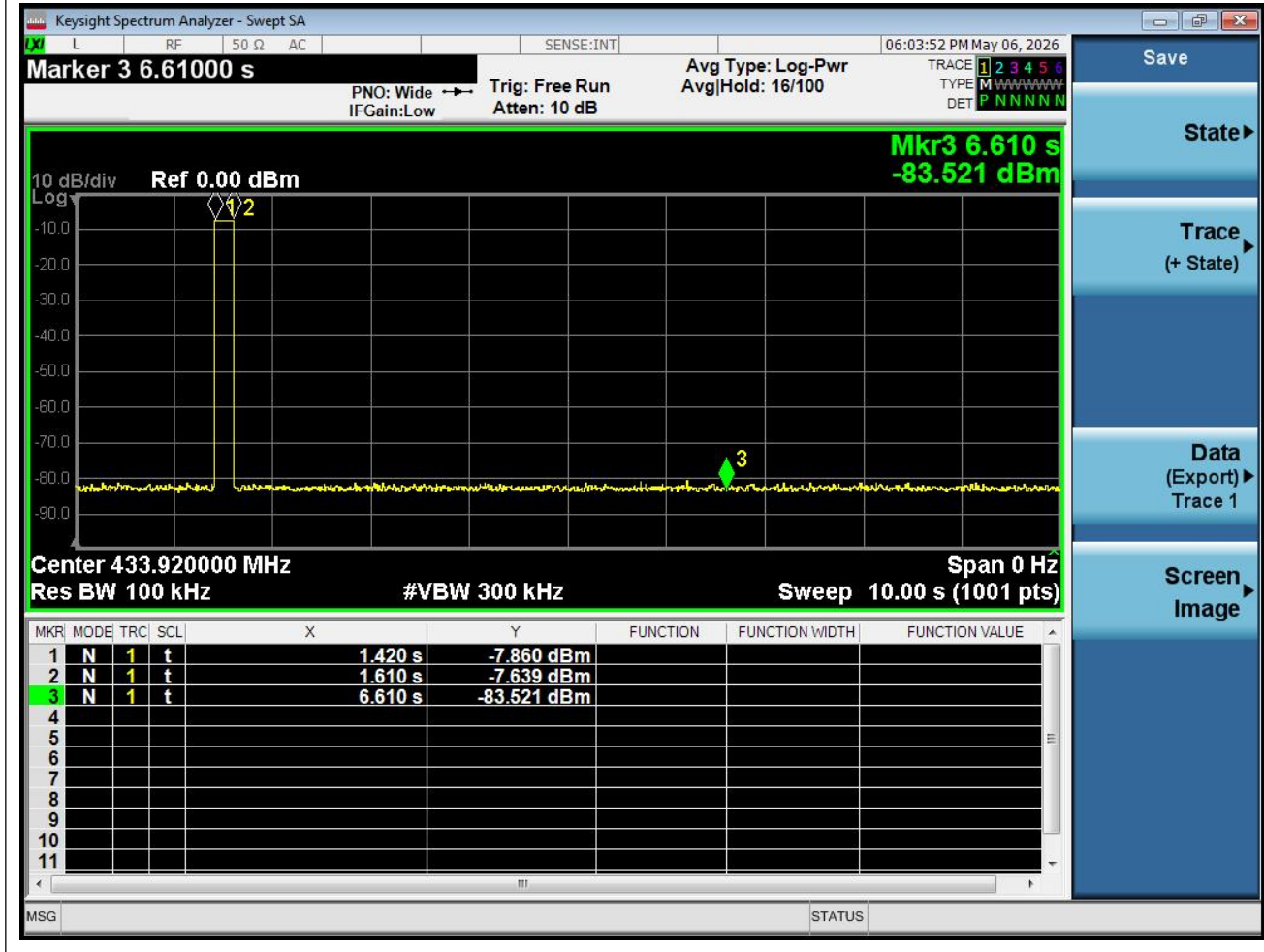
### Test Graphs

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433.92MHz



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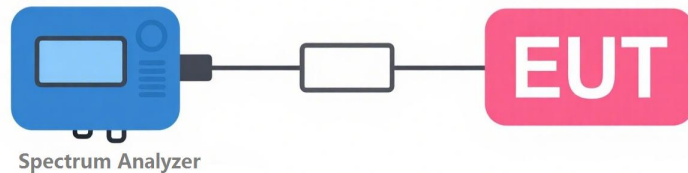
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### 7.3. 20% BANDWIDTH AND 99% BANDWIDTH

|                          |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15.231(c)                                                                                                                                                                                                                                                                                                                                                          |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                          |
| <b>Limit:</b>            | 0.25% of the center frequency (in Range 70-900MHz)<br>0.5 % of the center frequency (for frequencies above 900MHz)                                                                                                                                                                                                                                                         |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.</li> <li>2.The resolution bandwidth of 3 kHz and the video bandwidth of 10 kHz were used.</li> <li>3.Use the following spectrum analyzer settings for 20dB Bandwidth measurement.</li> <li>4.Measured 99% bandwidth.</li> </ol> |
| <b>Test Result:</b>      | Pass                                                                                                                                                                                                                                                                                                                                                                       |

#### 7.3.1. Test Setup:



Test set-up of radiated disturbance (Above 1GHz)

#### 7.3.2. Test Result

| TEST Frequency (MHz) | 99% Bandwidth (kHz) | 20dB Bandwidth (kHz) | 20dB Bandwidth Limit(kHz) | Result |
|----------------------|---------------------|----------------------|---------------------------|--------|
| 433.92               | 69.123              | 13.40                | 1084.80kHz                | Pass   |

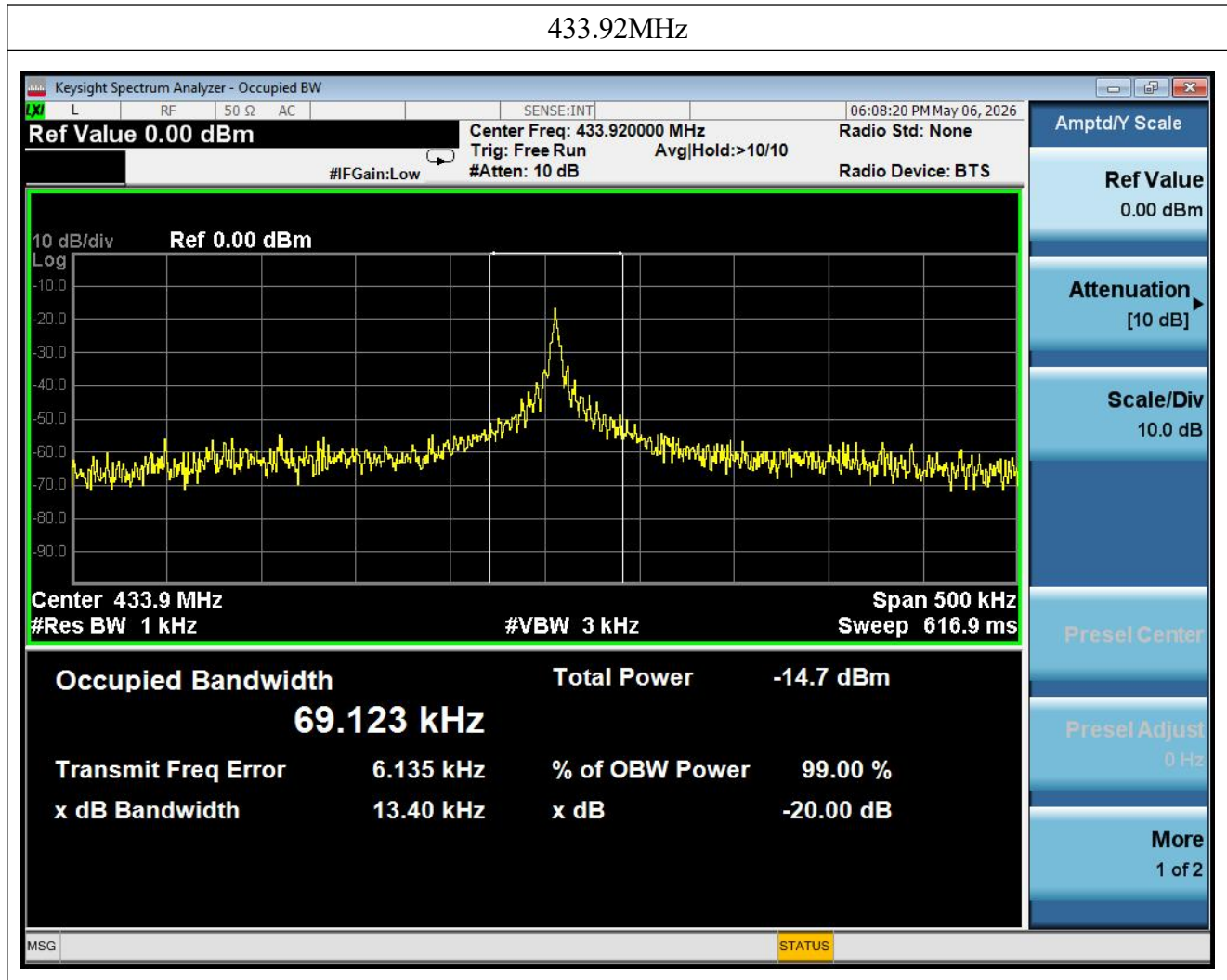
Note: Limit =433.92MHz\*0.25%=1084.80 kHz.

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Test plots as follows



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#### 7.4. FIELD STRENGTH OF FUNDAMENTAL AND RADIATED SPURIOUS EMISSIONS

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                              |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------|
| Test Requirement: | FCC Part 15.231(b), 15.231(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    |                              |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |                              |
| Limit:            | In addition to the provisions of 15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following. From 15.231 (b)(3), the limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 15.209, whichever limit permits a higher field strength. |                                    |                              |
|                   | FCC Part 15.231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                              |
|                   | Frequency Range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Field Strength Limit (μV/m) at 3 m | Measurement Distance(meters) |
|                   | 40.66~40.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2250                               | 225                          |
|                   | 70~130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1250                               | 125                          |
|                   | 130~174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1250 to 3750                       | 125 to 375*                  |
|                   | 174~260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3750                               | 375                          |
|                   | 260-470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3750 to 12500                      | 375 to 1250*                 |
|                   | Above 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12500                              | 1250                         |
|                   | *Linear interpolation with frequency, f, in MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                              |
|                   | FCC Part 15.209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                              |
|                   | Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Field Strength Limit (μV/m) at 3 m | Measurement Distance(meters) |
|                   | 0.009~0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2400/F(kHz)                        | 300                          |
|                   | 0.490~1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24000/F(kHz)                       | 30                           |
|                   | 1.705~30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30                                 | 30                           |
|                   | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100                                | 3                            |
|                   | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 150                                | 3                            |
| 216-960           | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                                  |                              |
| Above 960         | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                                  |                              |

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|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Procedure:</b> | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8meters above the ground at a 3 meter camber in below 1GHz,1.5m above the ground in above1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> </ol> <p>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.If the emission level of the EUT in peak mode was10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported.Otherwise the emissions that did not have10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>Note:Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis(X, Y, Z,). The worst case emissions were reported.</p> |
| <b>Test Result:</b>    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

#### 7.4.1. Test Setup

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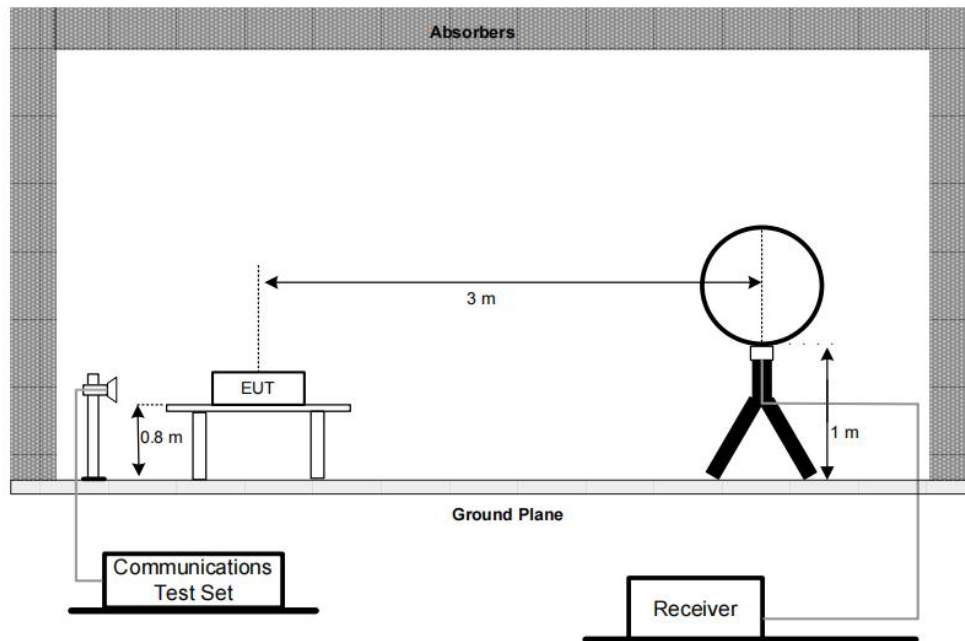
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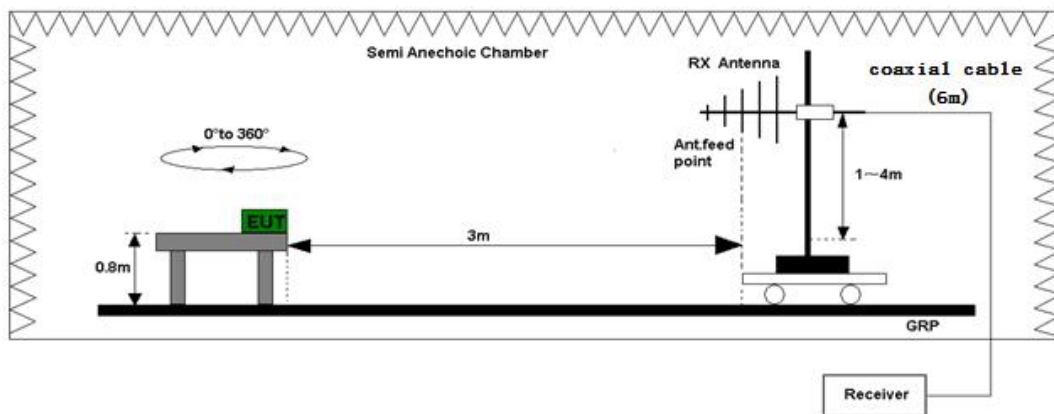
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Test set-up of radiated disturbance (Up to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)

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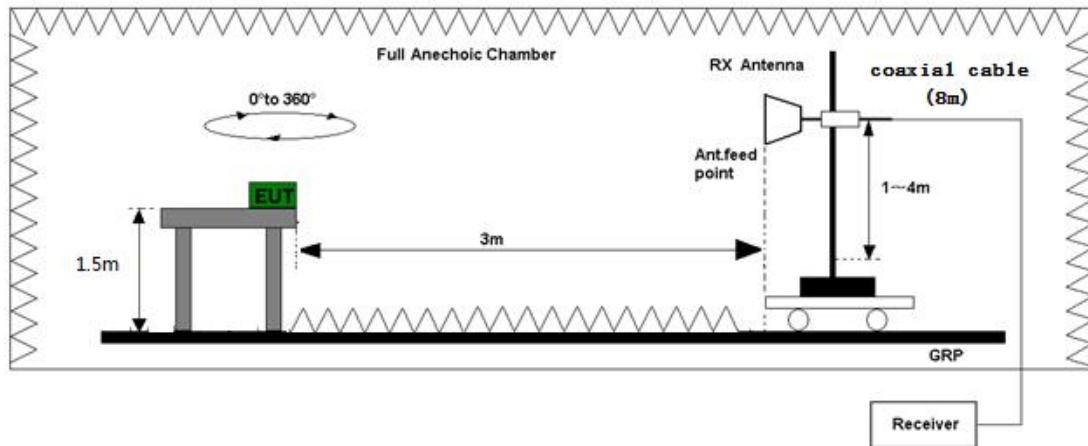
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Test set-up of radiated disturbance (Above 1GHz)

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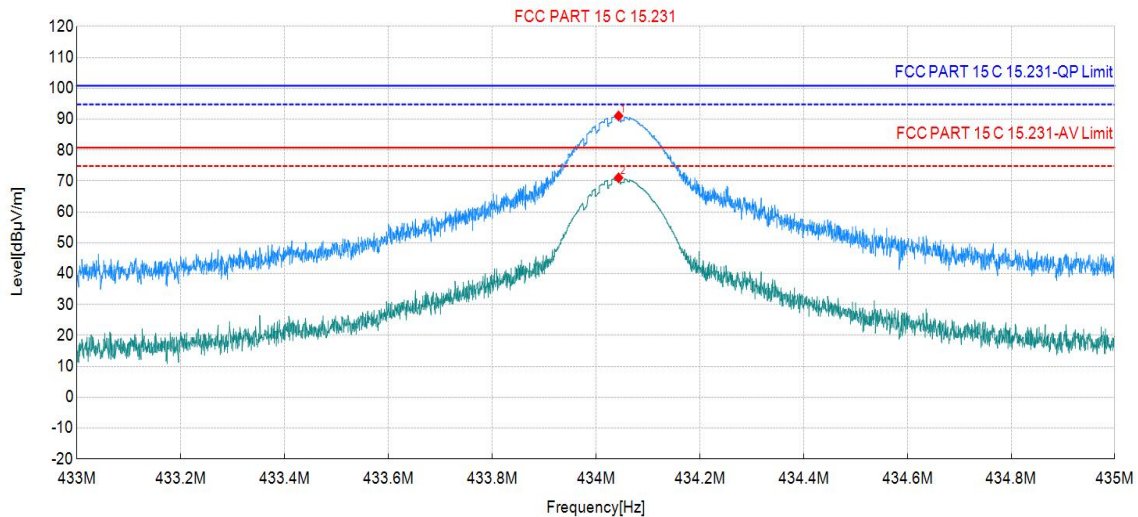
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## 7.4.2. Test Result

### Field Strength of Fundamental Emissions

Please refer to the following diagram:

Vertical:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 433.92          | 94.52          | 80.79          | -13.73        | 100.83         | 20.04       | 100         | 220       | PK  | Vert | PASS    |
| 2   | 434.04          | --             | 68.8           | --            | 80.83          | 12.03       | --          | --        | AV  | Vert | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(4)Average result=Peak result +Duty factor=68.8dB μ V/m.

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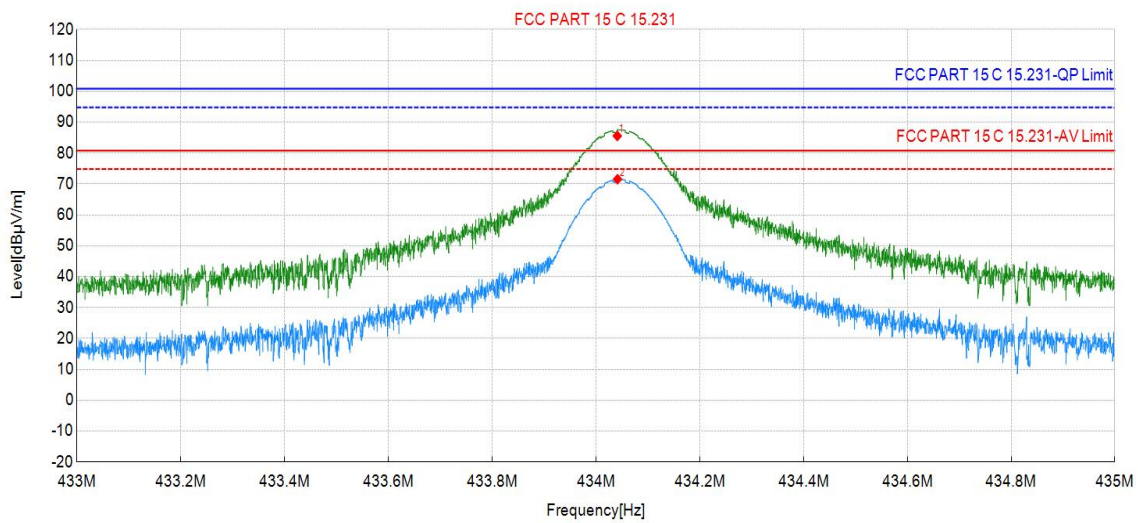
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Please refer to the following diagram:

Horizontal:



#### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 433.92          | 94.11          | 80.38          | -13.73        | 100.83         | 20.45       | 100         | 300       | PK  | Hori | PASS    |
| 2   | 434.04          | --             | 68.39          | --            | 80.83          | 12.44       | --          | --        | AV  | Hori | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

(4)Average result=Peak result +Duty factor=68.39B μ V/m.

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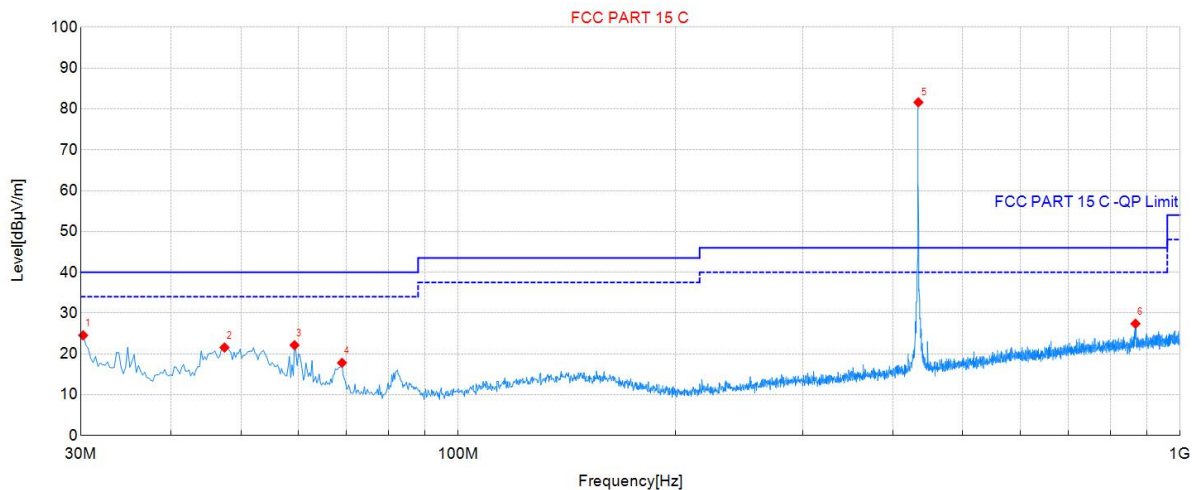
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## Radiated Emissions (below 1GHz)

Please refer to the following diagram:

Vertical:



### Suspected Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Level [dBμV] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
|-----|-----------------|----------------|--------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| 1   | 30.24           | 42.33          | 24.56        | -17.77        | 40.00          | 15.44       | 100         | 0         | QP  | Vert | PASS    |
| 2   | 47.46           | 38.74          | 21.57        | -17.17        | 40.00          | 18.43       | 100         | 222       | QP  | Vert | PASS    |
| 3   | 59.34           | 40.12          | 22.14        | -17.98        | 40.00          | 17.86       | 100         | 6         | QP  | Vert | PASS    |
| 4   | 69.04           | 37.23          | 17.82        | -19.41        | 40.00          | 22.18       | 100         | 32        | QP  | Vert | PASS    |
| 5   | 434.01          | 95.12          | 81.39        | -13.73        | N/A            | N/A         | 100         | 193       | N/A | Vert |         |
| 6   | 867.35          | 34.83          | 27.40        | -7.43         | 46.00          | 18.60       | 100         | 240       | QP  | Vert | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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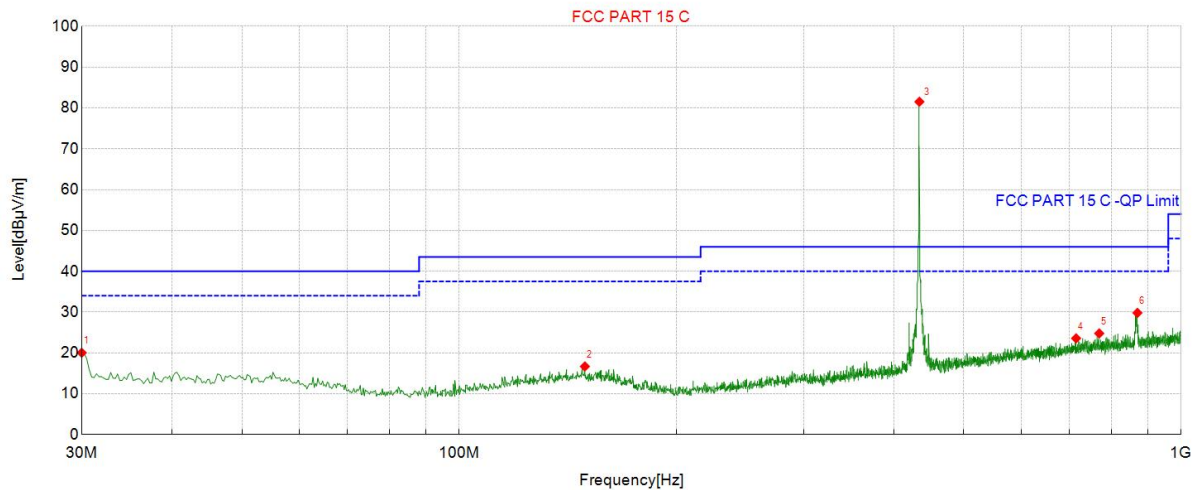
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Horizontal:



| Suspected Data List |                 |                |              |               |                |             |             |           |     |      |         |
|---------------------|-----------------|----------------|--------------|---------------|----------------|-------------|-------------|-----------|-----|------|---------|
| NO.                 | Frequency [MHz] | Reading [dBμV] | Level [dBμV] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Det | Pol  | Verdict |
| 1                   | 30.00           | 37.83          | 20.04        | -17.79        | 40.00          | 19.96       | 100         | 29        | QP  | Hori | PASS    |
| 2                   | 149.31          | 32.86          | 16.69        | -16.17        | 43.50          | 26.81       | 100         | 340       | QP  | Hori | PASS    |
| 3                   | 434.01          | 95.2           | 81.47        | -13.73        | N/A            | -N/A        | 100         | 114       | N/A | Hori |         |
| 4                   | 715.31          | 32.25          | 23.58        | -8.67         | 46.00          | 22.42       | 100         | 330       | QP  | Hori | PASS    |
| 5                   | 770.11          | 32.95          | 24.77        | -8.18         | 46.00          | 21.23       | 100         | 50        | QP  | Hori | PASS    |
| 6                   | 869.78          | 37.22          | 29.81        | -7.41         | 46.00          | 16.19       | 100         | 132       | QP  | Hori | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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### Radiated Emissions (above 1GHz)

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) | Detector Type |
|--------------|-----------------|----------------|-------------------|-----------------------|-----------------|-------------------------|----------------------|-------------|---------------|
| Horizontal   | 1301.76         | 55.8           | 54.5              | 25.1                  | 2.8             | 29.2                    | 74                   | -44.8       | PK            |
| Horizontal   | 1735.68         | 56.2           | 54.9              | 25.7                  | 3.4             | 30.4                    | 80.83                | -50.43      | PK            |
| Horizontal   | 2169.60         | 54.8           | 55.5              | 28.2                  | 3.8             | 31.3                    | 80.83                | -49.53      | PK            |

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-Amp Gain (dB) | Antenna Factor (dB/m) | Cable Loss (dB) | Emission Level (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) | Detector Type |
|--------------|-----------------|----------------|-------------------|-----------------------|-----------------|-------------------------|----------------------|-------------|---------------|
| Vertical     | 1301.76         | 55.6           | 54.5              | 25.1                  | 2.8             | 29                      | 74                   | -45.00      | PK            |
| Vertical     | 1735.68         | 56.4           | 54.9              | 25.7                  | 3.4             | 30.6                    | 80.83                | -50.23      | PK            |
| Vertical     | 2169.60         | 55.4           | 55.5              | 28.2                  | 3.8             | 31.9                    | 80.83                | -48.93      | PK            |

Note:(1)Emission Level=Reading-Pre-Amp.Gain+Antenna+Cable loss

(2)Margin=Level-limit

(3)The peak value is lower than the AV limit, the AV value does not need to be shown.

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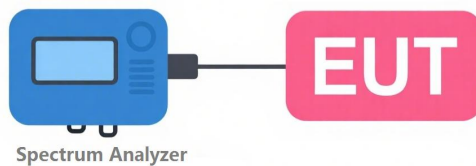
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## 7.5. DUTY CYCLE

|                 |                                                                                                                                                                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure: | <p>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</p> <p>Span=0Hz</p> <p>Set the RBW =1MHz</p> <p>Set the VBW≥RBW</p> <p>Detector = Average.</p> <p>Sweep time = 100ms</p> <p>Trace mode = Clear write</p> <p>Use the marker-delta function to determine the Tx On and Tx off..</p> |
| Test Result:    | Pass                                                                                                                                                                                                                                                                                                                                |

### 7.5.1. Test Setup



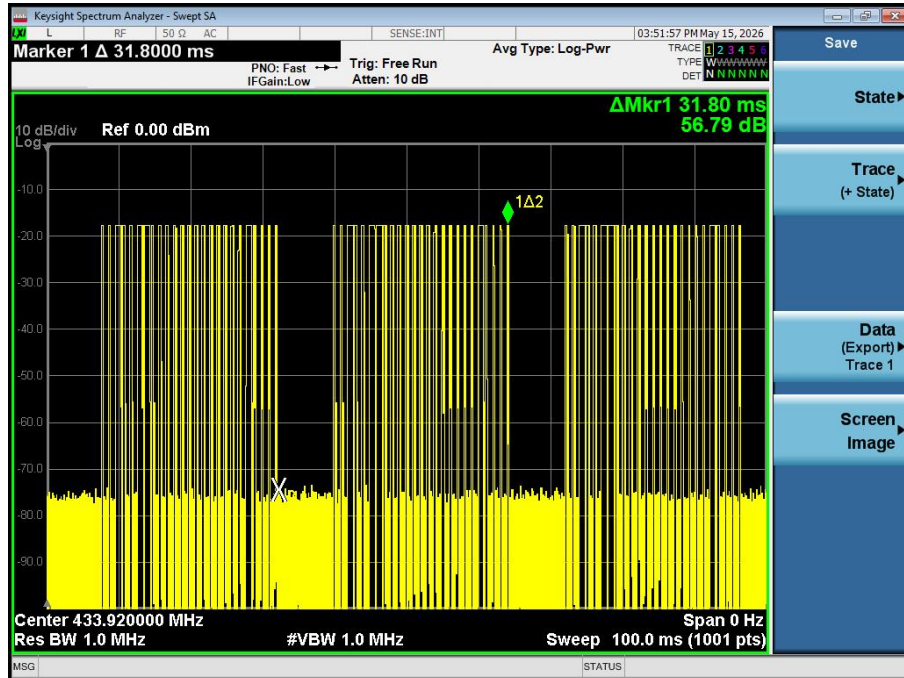
### 7.5.2. Test Result

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### Duty cycle Plot



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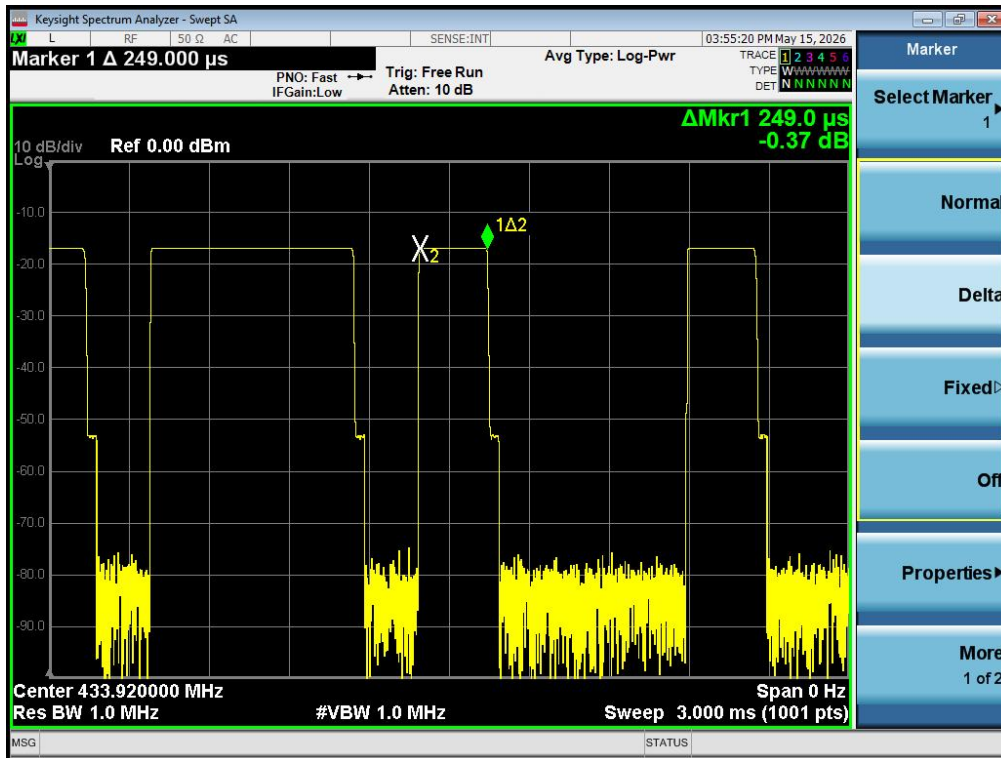
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| Frequency | On Time (ms) | Period (ms) | Duty Cycle (%) | Duty cycle correction factor(dB) |
|-----------|--------------|-------------|----------------|----------------------------------|
| 433.92MHz | 7.99         | 31.8        | 25.12          | -11.99                           |

Note:

- 1.Worst case Duty cycle = on time/Period \*100 %
2. Effective period of the cycle =  $0.75*8+0.249*8=7.99\text{ms}$
- 3.Worst case Duty cycle correction factor =  $20*\log(\text{on time/Period})$

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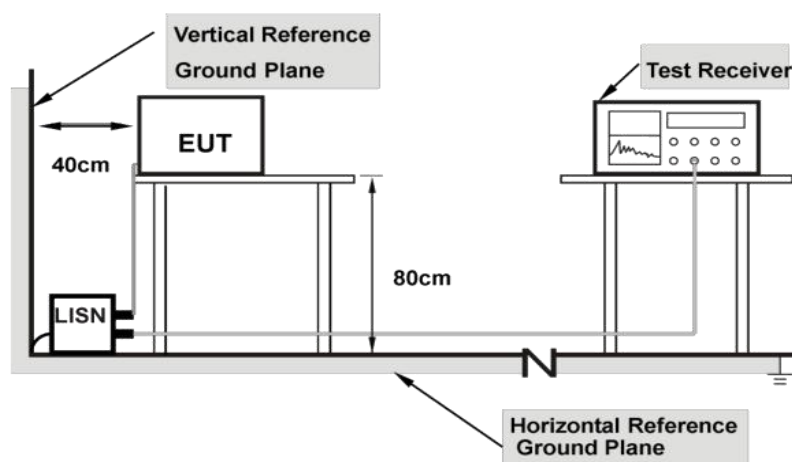
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## 7.6. CONDUCTED EMISSION

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|
| Test Requirement: | FCC Part 15.207(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |           |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |           |
| Limit:            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |           |
|                   | Frequency of Emission<br>(MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Conducted 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 Procedure:   | For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled. |                        |           |
| Test Result:      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |           |

### 7.6.1. Test Setup



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May 23, 2026  
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### 7.6.2. Test Result

N/A. The EUT is powered by battery.

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## 8. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

## 9. PHOTOGRAPHS OF EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

\*\*\* End of Report \*\*\*

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