

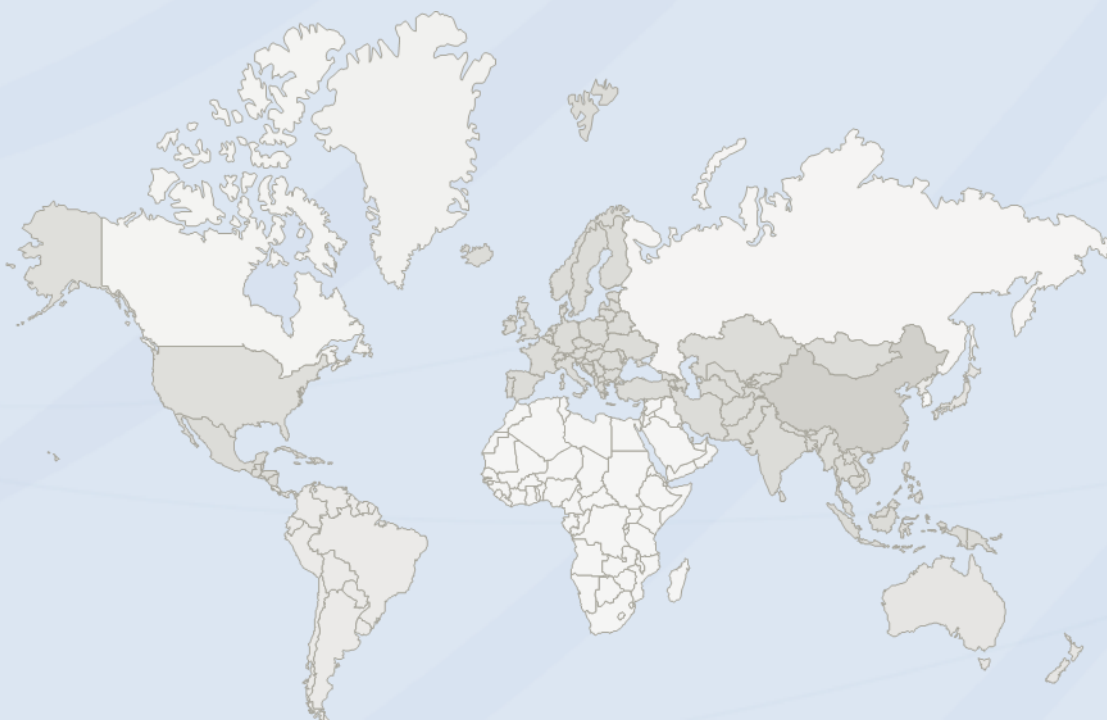
# FCC TEST REPORT

**Report No.** .....: NTC-ER2505059

**Applicant's name**.....: Shenzhen Olight E-Commerce Technology Co., Ltd.

5th Floor, Buliding A2, Fuhai Information Harbor, Fuhai

**Address**.....: Subdistrict, Baoan District, Shenzhen, Guangdong,  
518000, China



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## TEST REPORT DECLARE

|                             |                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC ID</b>               | : 2A44S-AUREVO                                                                                                                           |
| <b>Equipment under Test</b> | : Olight Smart LED Bulb                                                                                                                  |
| <b>Model /Type</b>          | : Aurevo                                                                                                                                 |
| <b>Listed Models</b>        | : Aurevo                                                                                                                                 |
| <b>Trade Mark</b>           | : OLIGHT                                                                                                                                 |
| <b>Applicant</b>            | : Shenzhen Olight E-Commerce Technology Co., Ltd.                                                                                        |
| <b>Address</b>              | : 5th Floor, Buliding A2, Fuhai Information Harbor, Fuhai Subdistrict, Baoan District,Shenzhen, Guangdong, 518000, China                 |
| <b>Manufacturer</b>         | : SHENZHENEETIHING TECHNOLOGYCO..TD                                                                                                      |
| <b>Address</b>              | : Building A 507, Senhainuoweiiian Industrial Park, No.7 Jintai Road, Longteng Community, Shiyan Street, Baoan District, Shenzhen, China |
| <b>Test Laboratory</b>      | : Dongguan New Testing Centre Co., Ltd                                                                                                   |
| <b>Address</b>              | : 1F & 3F, No. 1 the 1st North Industry Road Songshan Lake Science & Technology Park Dongguan, People's Republic of China 523808         |

### Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C: 15.247, ANSI C63.10:2020.

### We Declare:

The equipment described above is tested by Dongguan New Testing Centre Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan New Testing Centre Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

**After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.**

|                      |                            |                         |             |
|----------------------|----------------------------|-------------------------|-------------|
| <b>Report No.:</b>   | NTC-ER2505059              |                         |             |
| <b>Date of Test:</b> | May.30,2025 to Jun.12,2025 | <b>Date of Report.:</b> | Jul.03,2025 |

**Prepared By:**

*Taylor chen*

**Taylor Chen/Engineer**

**Approved By:**



**Dave Gao/LAB Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan New Testing Centre Co., Ltd

## 1. Summary of test results

| Description of Test Item       | Standard             | Results |
|--------------------------------|----------------------|---------|
| Antenna Requirement            | Section 15.247(c)    | PASS    |
| Conduction Emissions           | Section 15.207(a)    | PASS    |
| Radiated Emissions             | Section 15.247(d)    | PASS    |
| Maximum Conducted Output Power | Section 15.247(b)    | PASS    |
| Band Edge Emissions            | Section 15.247(d)    | PASS    |
| Power Spectral Density         | Section 15.247(e)    | PASS    |
| 6dB Bandwidth                  | Section 15.247(a)(2) | PASS    |
| RF Exposure                    | Section 15.247(i)    | PASS    |

## 2. General test information

Description of EUT

|                        |   |                                                                                                                             |
|------------------------|---|-----------------------------------------------------------------------------------------------------------------------------|
| EUT* Name              | : | Olight Smart LED Bulb                                                                                                       |
| Olight Smart LED Bulb  | : | Aurevo                                                                                                                      |
| Aurevo                 | : | Please reference user manual of this device                                                                                 |
| Power supply           | : | 120V,60Hz                                                                                                                   |
| Supported type:        | : | 802.11b/802.11g/802.11n(H20)                                                                                                |
| Modulation Technology: | : | 802.11b: DSSS<br>802.11g/n: OFDM                                                                                            |
| Transmit Data Rate:    | : | 802.11b :1/2/5.5/11 Mbps<br>802.11g :6/9/12/18/24/36/48/54 Mbps<br>802.11n(HT20): 7.2/14.4/21.7/28.9/43.3/57.8/65/72.2 Mbps |
| Channel Separation:    | : | 5 MHz                                                                                                                       |
| Antenna Type           | : | Monopole Antenna                                                                                                            |
| Gain:                  | : | Max 2.3 dBi                                                                                                                 |
| Hardware Version:      | : | V1.0                                                                                                                        |
| Software Version:      | : | V1.0                                                                                                                        |

Note: 1, EUT is the ab. of equipment under test.

Frequency list:

1. Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2412            | 7       | 2442            |
| 2       | 2417            | 8       | 2447            |
| 3       | 2422            | 9       | 2452            |
| 4       | 2427            | 10      | 2457            |
| 5       | 2432            | 11      | 2462            |
| 6       | 2437            |         |                 |

#### Description of test modes

| No.                                                                                                                                                                                                 | TEST Mode DESCRIPTION |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1                                                                                                                                                                                                   | Low channel TX        |
| 2                                                                                                                                                                                                   | Middle channel TX     |
| 3                                                                                                                                                                                                   | High channel TX       |
| 4                                                                                                                                                                                                   | Keeping TX mode       |
| Note:<br>Transmit by 802.11b with Data rate (1/2/5.5/11)<br>Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)<br>Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65) |                       |

Note:

- 1.The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3 axis were chosen for testing for each applicable mode.

#### 2.1. Detail models

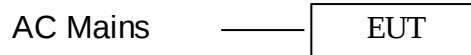
| Model  | Rating       | Note |
|--------|--------------|------|
| Aurevo | AC 120V 60Hz | /    |

## 2.2. Test Peripheral List

| No. | Equipment | Manufacturer | Model No.    | Serial No. | Note |
|-----|-----------|--------------|--------------|------------|------|
| 1   | Notebook  | Lenovo       | ThinkPadE450 | PF-0LRXDH  | --   |

## 2.3. Block diagram EUT configuration for test

For EUT Tx mode:



## 2.4. Test environment conditions

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

|                    |           |
|--------------------|-----------|
| Temperature range: | 21-24°C   |
| Humidity range:    | 40-75%    |
| Pressure range:    | 86-106kPa |

## 2.5. Measurement uncertainty

| Test Item                                                 | Uncertainty           |
|-----------------------------------------------------------|-----------------------|
| Uncertainty for Conduction emission test                  | 3.20 dB               |
| Uncertainty for Radiation Emission test<br>(30MHz – 1GHz) | 4.60 dB (Polarize: V) |
|                                                           | 4.60 dB (Polarize: H) |
| Uncertainty for Radiation Emission test<br>(1GHz – 18GHz) | 4.82 dB (Polarize: V) |
|                                                           | 4.52 dB (Polarize: H) |
| Bandwidth                                                 | ±1.2%                 |
| Stop Transmitting Time Test                               | ±0.5%                 |
| Uncertainty for frequency error                           | 5.8 x 10-8            |

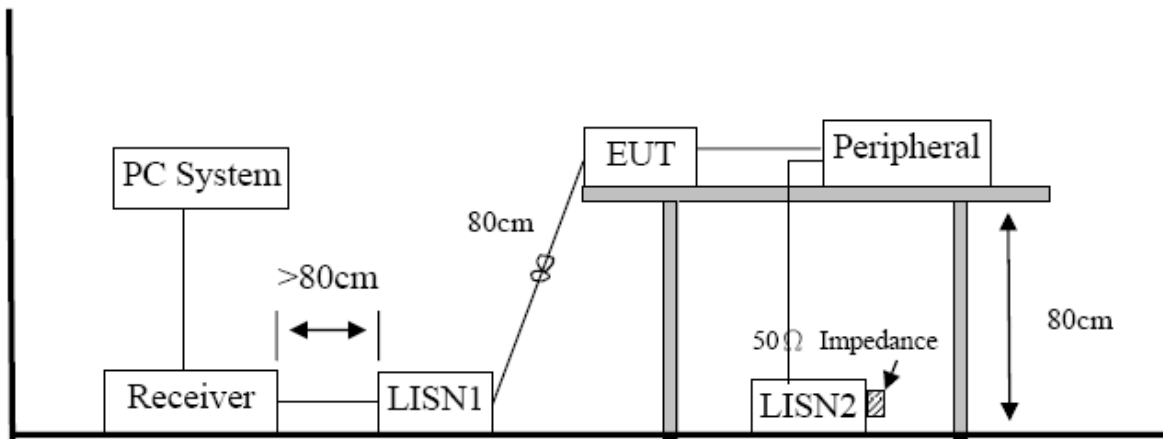
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3. Power Line Conducted Emission Test

#### 3.1. Test equipment

| Item | Equipment            | Manufacturer | Model No.           | Serial No.   | Last Cal.  | Cal. Interval |
|------|----------------------|--------------|---------------------|--------------|------------|---------------|
| 1    | Test Receiver        | R&S          | ESPI                | 100146       | 2025-05-08 | 1 Year        |
| 2    | LISN                 | R&S          | ENV216              | 3650.6550.06 | 2025-05-08 | 1 Year        |
| 3    | LISN                 | R&S          | ENV4200             | 1107.2387.04 | 2025-05-08 | 1 Year        |
| 4    | RF Cable             | HUBER        | SUCOFLEX100         | 30722/4E     | 2025-05-08 | 2 Year        |
| 5    | MEASUREMENT SOFTWARE | FARAD        | EZ-EMC(VER:1.1.4.2) | N/A          | N/A        | N/A           |

#### 3.2. BLOCK DIAGRAM OF TEST SETUP



#### 3.3. Power Line Conducted Emission Limits (Class B)

| Frequency       | Quasi-Peak Level<br>dB(μV) | Average Level<br>dB(μV) |
|-----------------|----------------------------|-------------------------|
| 150kHz ~ 500kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500kHz ~ 5MHz   | 56                         | 46                      |
| 5MHz ~ 30MHz    | 60                         | 50                      |

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

### 3.4. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 3.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10. All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test. After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded. The bandwidth of test receiver is set at 9 KHz.

### 3.5. Test Result

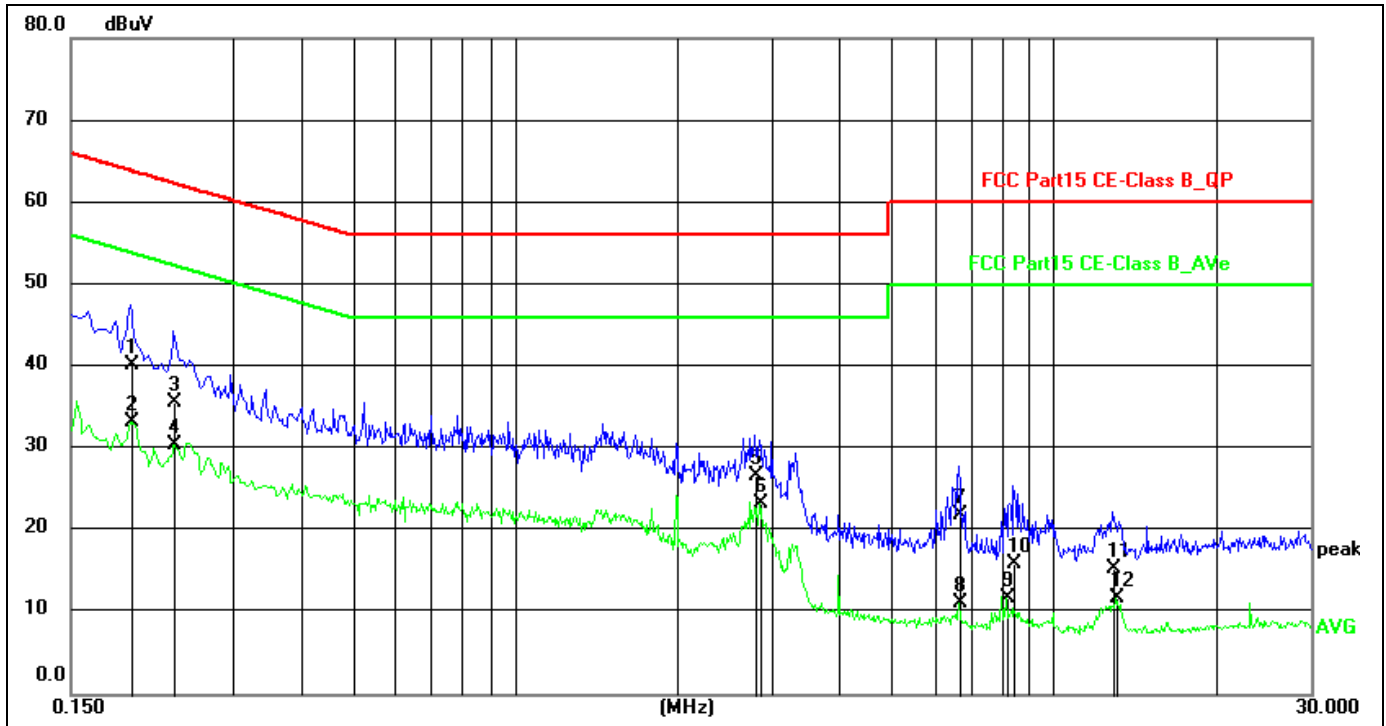
#### **PASS. (See below detailed test result)**

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "-----" means Peak detection; "-----" means Average detection

Note3: Measurement = Reading Level + Factor, Margin= Measurement-Limit

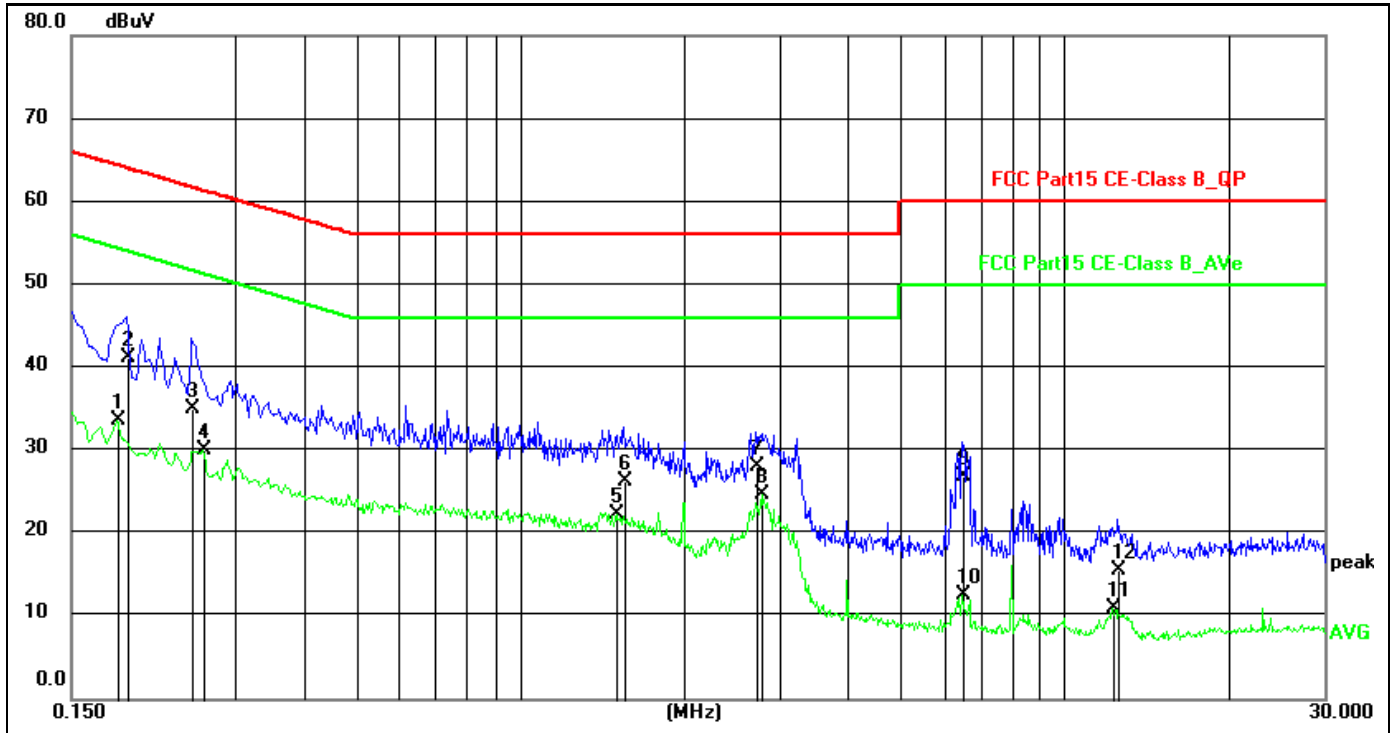
# Conducted Emission Test Result



Site: 844LAB  
Limit: FCC Part15 CE-Class B\_QP  
EUT: Olight Smart LED Bulb  
M/N.: Aurevo  
Mode: Lighting  
Note: white light maximum brightness

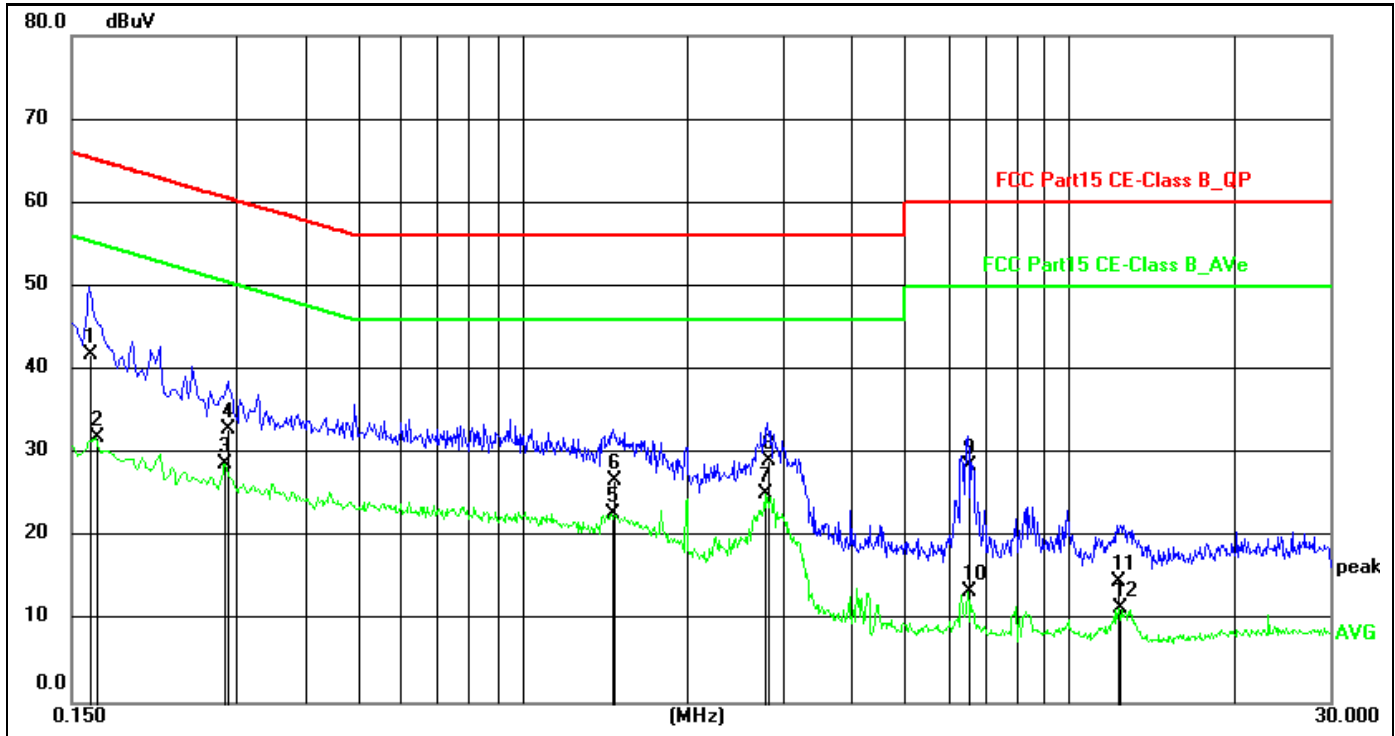
Phase:L1  
Temperature(C):24(C)  
Humidity(%):63 %  
Test Time: 2025/6/12 13:47:53  
Power Rating: AC120V/60Hz  
Test Engineer:

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1   | 0.1940          | 29.72               | 10.44       | 40.16              | 63.86        | -23.70      | QP       |         |
| 2 * | 0.1940          | 22.77               | 10.44       | 33.21              | 53.86        | -20.65      | AVG      |         |
| 3   | 0.2340          | 25.28               | 10.44       | 35.72              | 62.31        | -26.59      | QP       |         |
| 4   | 0.2340          | 19.98               | 10.44       | 30.42              | 52.31        | -21.89      | AVG      |         |
| 5   | 2.8020          | 16.24               | 10.48       | 26.72              | 56.00        | -29.28      | QP       |         |
| 6   | 2.8420          | 12.76               | 10.48       | 23.24              | 46.00        | -22.76      | AVG      |         |
| 7   | 6.6739          | 11.58               | 10.43       | 22.01              | 60.00        | -37.99      | QP       |         |
| 8   | 6.6739          | 0.82                | 10.43       | 11.25              | 50.00        | -38.75      | AVG      |         |
| 9   | 8.1579          | 1.35                | 10.42       | 11.77              | 50.00        | -38.23      | AVG      |         |
| 10  | 8.4459          | 5.48                | 10.43       | 15.91              | 60.00        | -44.09      | QP       |         |
| 11  | 12.8900         | 4.76                | 10.54       | 15.30              | 60.00        | -44.70      | QP       |         |
| 12  | 13.0900         | 1.16                | 10.56       | 11.72              | 50.00        | -38.28      | AVG      |         |



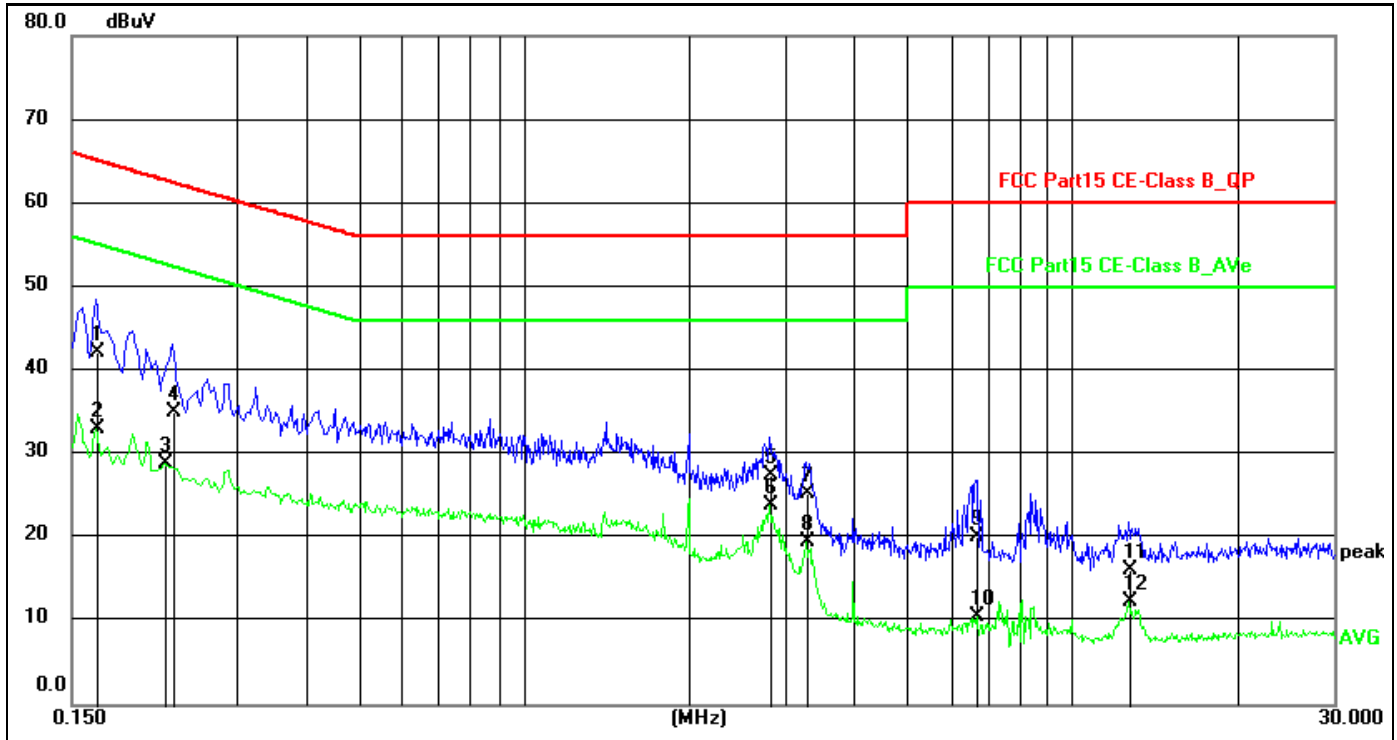
|        |                                |                |                    |                 |       |
|--------|--------------------------------|----------------|--------------------|-----------------|-------|
| Site:  | 844LAB                         | Phase:         | N                  | Temperature(C): | 24(C) |
| Limit: | FCC Part15 CE-Class B_QP       | Test Time:     | 2025/6/12 13:52:03 | Humidity(%):    | 63%   |
| EUT:   | Olight Smart LED Bulb          | Power Rating:  | AC120V/60Hz        |                 |       |
| M/N.:  | Aurevo                         | Test Engineer: |                    |                 |       |
| Mode:  | Lighting                       |                |                    |                 |       |
| Note:  | white light maximum brightness |                |                    |                 |       |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1 * | 0.1819          | 23.20               | 10.42       | 33.62              | 54.40        | -20.78      | AVG      |         |
| 2   | 0.1900          | 30.86               | 10.42       | 41.28              | 64.04        | -22.76      | QP       |         |
| 3   | 0.2500          | 24.56               | 10.43       | 34.99              | 61.76        | -26.77      | QP       |         |
| 4   | 0.2620          | 19.66               | 10.43       | 30.09              | 51.37        | -21.28      | AVG      |         |
| 5   | 1.5100          | 11.84               | 10.46       | 22.30              | 46.00        | -23.70      | AVG      |         |
| 6   | 1.5540          | 15.78               | 10.46       | 26.24              | 56.00        | -29.76      | QP       |         |
| 7   | 2.7139          | 17.75               | 10.43       | 28.18              | 56.00        | -27.82      | QP       |         |
| 8   | 2.7900          | 14.22               | 10.43       | 24.65              | 46.00        | -21.35      | AVG      |         |
| 9   | 6.5060          | 16.47               | 10.39       | 26.86              | 60.00        | -33.14      | QP       |         |
| 10  | 6.5060          | 2.28                | 10.39       | 12.67              | 50.00        | -37.33      | AVG      |         |
| 11  | 12.2820         | 0.61                | 10.39       | 11.00              | 50.00        | -39.00      | AVG      |         |
| 12  | 12.5820         | 5.28                | 10.38       | 15.66              | 60.00        | -44.34      | QP       |         |



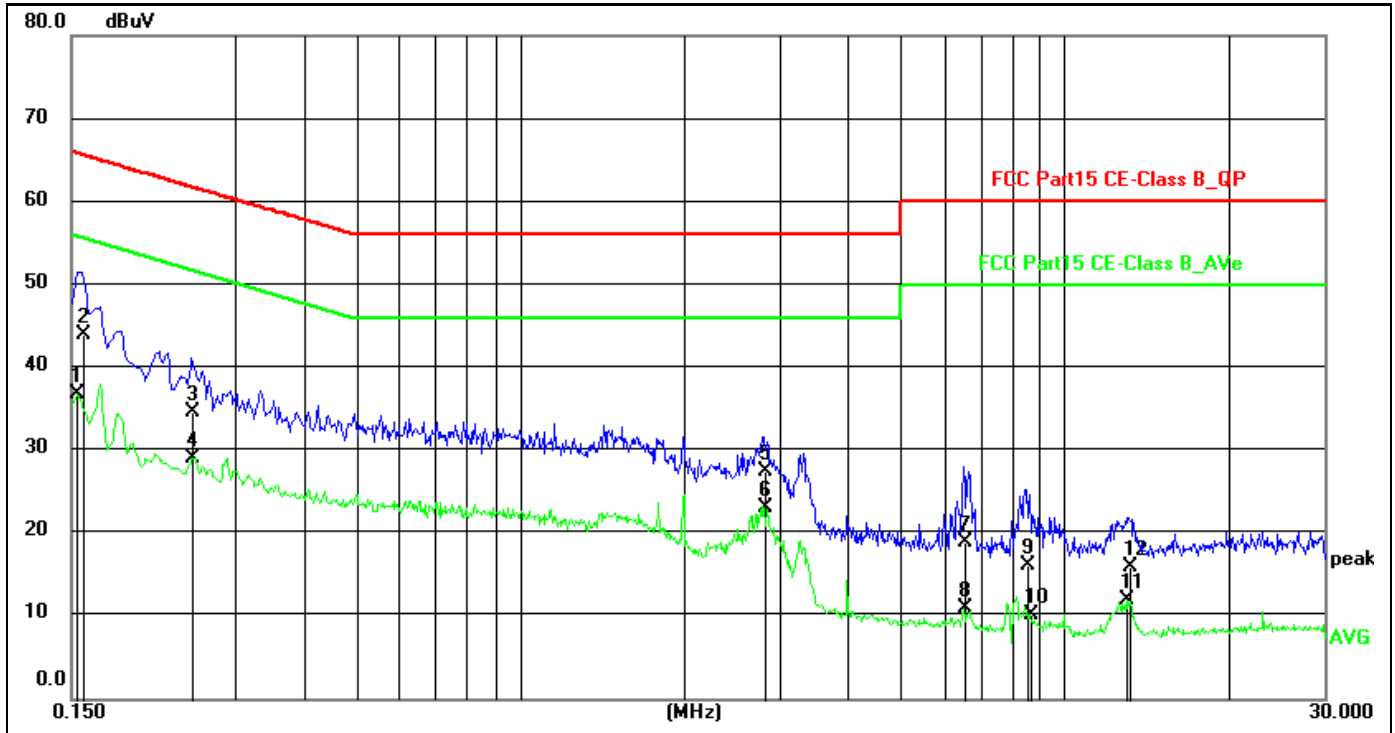
|        |                                |                |                    |                 |       |
|--------|--------------------------------|----------------|--------------------|-----------------|-------|
| Site:  | 844LAB                         | Phase:         | N                  | Temperature(C): | 24(C) |
| Limit: | FCC Part15 CE-Class B_QP       | Test Time:     | 2025/6/12 13:55:04 | Humidity(%):    | 63%   |
| EUT:   | Olight Smart LED Bulb          | Power Rating:  | AC120V/60Hz        |                 |       |
| M/N.:  | Aurevo                         | Test Engineer: |                    |                 |       |
| Mode:  | Lighting                       |                |                    |                 |       |
| Note:  | white light minimum brightness |                |                    |                 |       |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1   | 0.1624          | 31.41               | 10.41       | 41.82              | 65.34        | -23.52      | QP       |         |
| 2   | 0.1660          | 21.43               | 10.42       | 31.85              | 55.16        | -23.31      | AVG      |         |
| 3   | 0.2860          | 18.24               | 10.45       | 28.69              | 50.64        | -21.95      | AVG      |         |
| 4   | 0.2900          | 22.36               | 10.45       | 32.81              | 60.52        | -27.71      | QP       |         |
| 5   | 1.4580          | 12.18               | 10.47       | 22.65              | 46.00        | -23.35      | AVG      |         |
| 6   | 1.4700          | 16.28               | 10.47       | 26.75              | 56.00        | -29.25      | QP       |         |
| 7 * | 2.7900          | 14.59               | 10.43       | 25.02              | 46.00        | -20.98      | AVG      |         |
| 8   | 2.8179          | 18.67               | 10.43       | 29.10              | 56.00        | -26.90      | QP       |         |
| 9   | 6.5459          | 18.14               | 10.38       | 28.52              | 60.00        | -31.48      | QP       |         |
| 10  | 6.5459          | 2.93                | 10.38       | 13.31              | 50.00        | -36.69      | AVG      |         |
| 11  | 12.2739         | 4.20                | 10.39       | 14.59              | 60.00        | -45.41      | QP       |         |
| 12  | 12.3819         | 0.94                | 10.39       | 11.33              | 50.00        | -38.67      | AVG      |         |



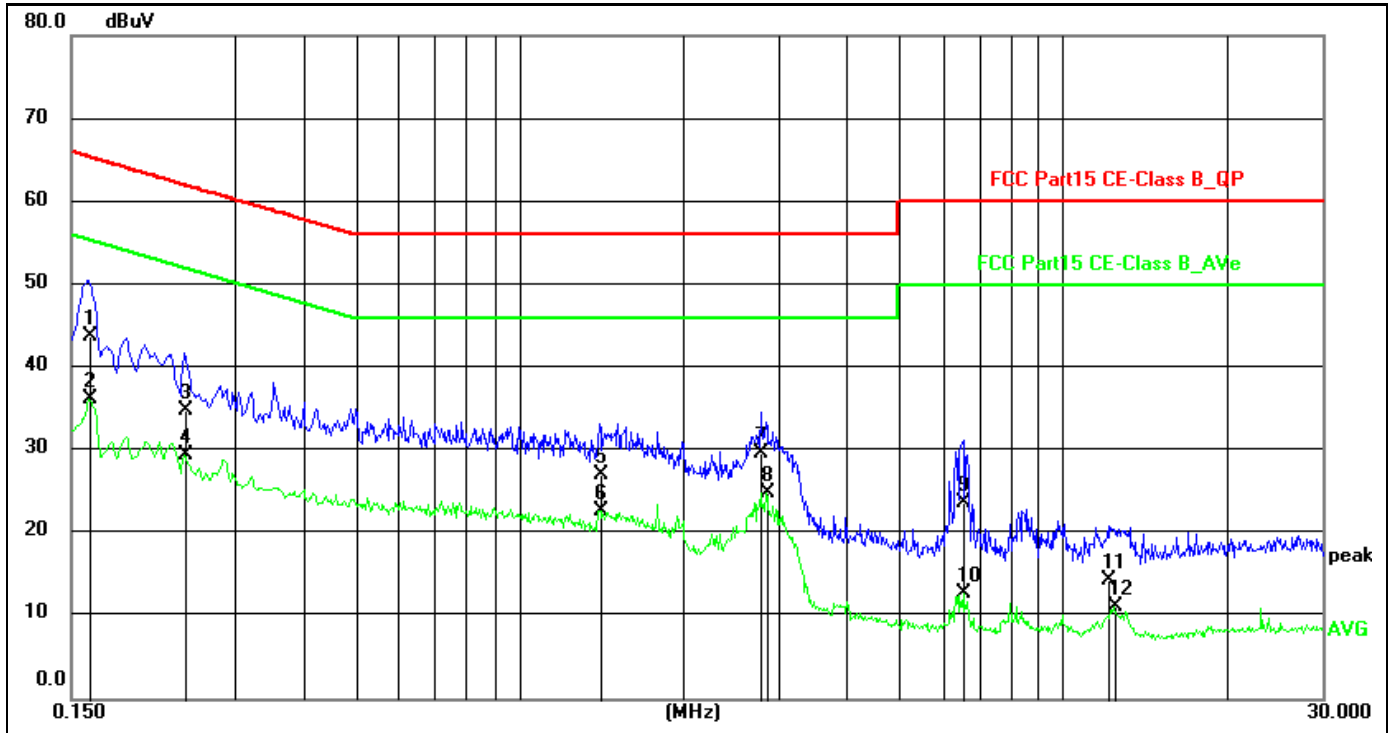
|        |                                |                |                      |
|--------|--------------------------------|----------------|----------------------|
| Site:  | 844LAB                         | Phase:L1       | Temperature(C):24(C) |
| Limit: | FCC Part15 CE-Class B_QP       |                | Humidity(%):63%      |
| EUT:   | Olight Smart LED Bulb          | Test Time:     | 2025/6/12 14:01:08   |
| M/N.:  | Aurevo                         | Power Rating:  | AC120V/60Hz          |
| Mode:  | Lighting                       | Test Engineer: |                      |
| Note:  | white light minimum brightness |                |                      |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1   | 0.1660          | 31.68               | 10.43       | 42.11              | 65.16        | -23.05      | QP       |         |
| 2   | 0.1660          | 22.63               | 10.43       | 33.06              | 55.16        | -22.10      | AVG      |         |
| 3   | 0.2220          | 18.37               | 10.44       | 28.81              | 52.74        | -23.93      | AVG      |         |
| 4   | 0.2300          | 24.68               | 10.44       | 35.12              | 62.45        | -27.33      | QP       |         |
| 5   | 2.8179          | 16.96               | 10.48       | 27.44              | 56.00        | -28.56      | QP       |         |
| 6 * | 2.8179          | 13.47               | 10.48       | 23.95              | 46.00        | -22.05      | AVG      |         |
| 7   | 3.2900          | 14.91               | 10.47       | 25.38              | 56.00        | -30.62      | QP       |         |
| 8   | 3.2900          | 9.15                | 10.47       | 19.62              | 46.00        | -26.38      | AVG      |         |
| 9   | 6.6819          | 9.68                | 10.43       | 20.11              | 60.00        | -39.89      | QP       |         |
| 10  | 6.7219          | 0.14                | 10.42       | 10.56              | 50.00        | -39.44      | AVG      |         |
| 11  | 12.6939         | 5.73                | 10.54       | 16.27              | 60.00        | -43.73      | QP       |         |
| 12  | 12.6939         | 1.78                | 10.54       | 12.32              | 50.00        | -37.68      | AVG      |         |



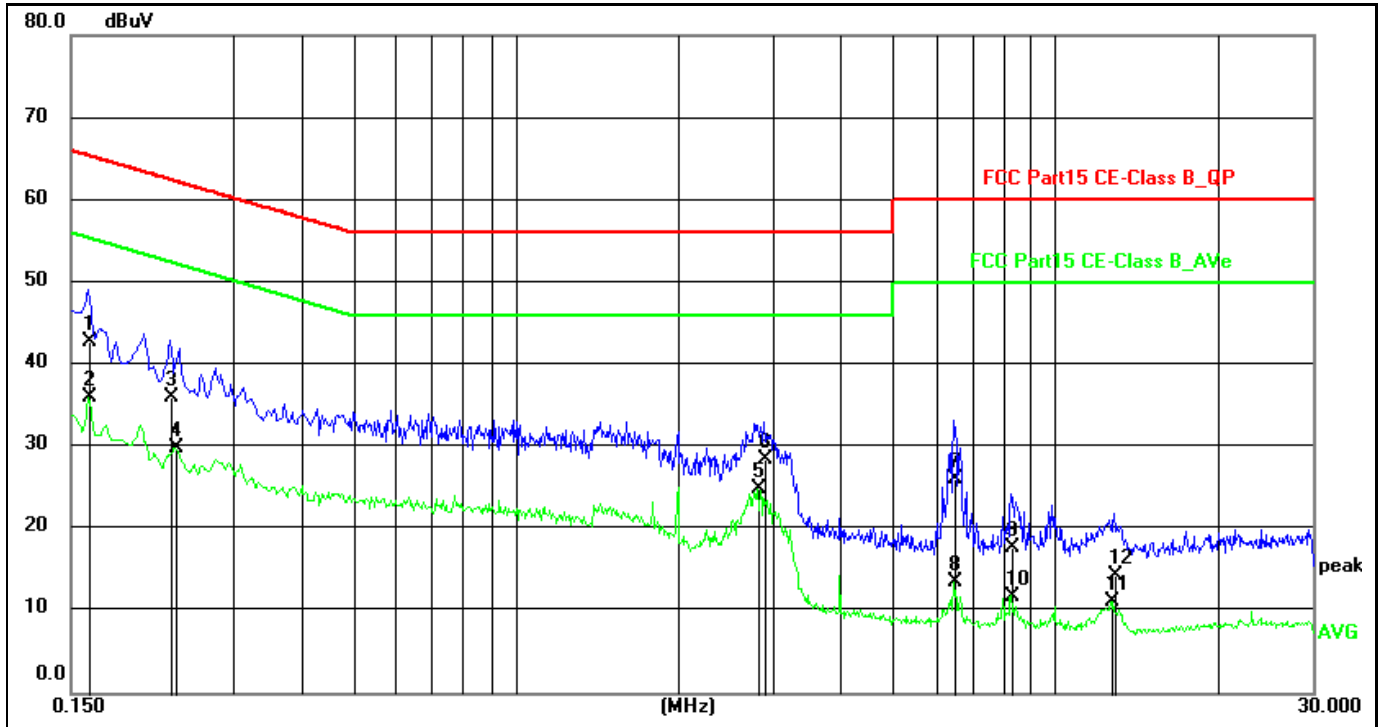
|        |                              |                |                    |                 |       |
|--------|------------------------------|----------------|--------------------|-----------------|-------|
| Site:  | 844LAB                       | Phase:         | L1                 | Temperature(C): | 24(C) |
| Limit: | FCC Part15 CE-Class B_QP     | Test Time:     | 2025/6/12 14:06:38 | Humidity(%):    | 63%   |
| EUT:   | Olight Smart LED Bulb        | Power Rating:  | AC120V/60Hz        |                 |       |
| M/N.:  | Aurevo                       | Test Engineer: |                    |                 |       |
| Mode:  | Lighting                     |                |                    |                 |       |
| Note:  | red light maximum brightness |                |                    |                 |       |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1 * | 0.1539          | 26.48               | 10.43       | 36.91              | 55.79        | -18.88      | AVG      |         |
| 2   | 0.1580          | 33.49               | 10.43       | 43.92              | 65.57        | -21.65      | QP       |         |
| 3   | 0.2500          | 24.27               | 10.44       | 34.71              | 61.76        | -27.05      | QP       |         |
| 4   | 0.2500          | 18.55               | 10.44       | 28.99              | 51.76        | -22.77      | AVG      |         |
| 5   | 2.8179          | 17.07               | 10.48       | 27.55              | 56.00        | -28.45      | QP       |         |
| 6   | 2.8179          | 12.71               | 10.48       | 23.19              | 46.00        | -22.81      | AVG      |         |
| 7   | 6.5419          | 8.51                | 10.42       | 18.93              | 60.00        | -41.07      | QP       |         |
| 8   | 6.5419          | 0.50                | 10.42       | 10.92              | 50.00        | -39.08      | AVG      |         |
| 9   | 8.5019          | 5.83                | 10.42       | 16.25              | 60.00        | -43.75      | QP       |         |
| 10  | 8.6459          | -0.13               | 10.43       | 10.30              | 50.00        | -39.70      | AVG      |         |
| 11  | 12.9979         | 1.42                | 10.56       | 11.98              | 50.00        | -38.02      | AVG      |         |
| 12  | 13.1300         | 5.33                | 10.56       | 15.89              | 60.00        | -44.11      | QP       |         |



|        |                              |                |   |                 |                    |
|--------|------------------------------|----------------|---|-----------------|--------------------|
| Site:  | 844LAB                       | Phase:         | N | Temperature(C): | 24(C)              |
| Limit: | FCC Part15 CE-Class B_QP     | Test Time:     |   | Humidity(% ):   | 63%                |
| EUT:   | Olight Smart LED Bulb        | Power Rating:  |   |                 | 2025/6/12 14:10:21 |
| M/N.:  | Aurevo                       | Test Engineer: |   |                 | AC120V/60Hz        |
| Mode:  | Lighting                     |                |   |                 |                    |
| Note:  | red light maximum brightness |                |   |                 |                    |

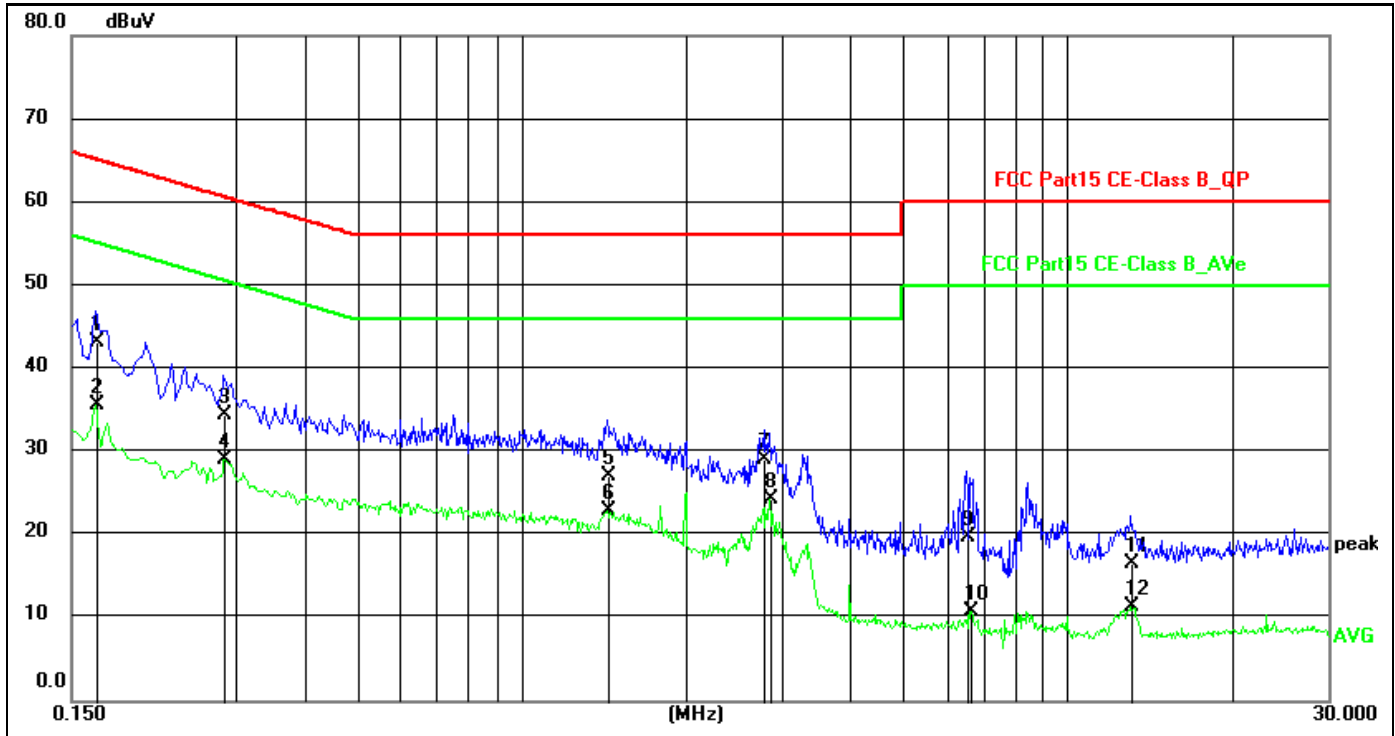
| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1   | 0.1620          | 33.31               | 10.42       | 43.73              | 65.36        | -21.63      | QP       |         |
| 2 * | 0.1620          | 25.80               | 10.42       | 36.22              | 55.36        | -19.14      | AVG      |         |
| 3   | 0.2420          | 24.37               | 10.43       | 34.80              | 62.03        | -27.23      | QP       |         |
| 4   | 0.2420          | 19.10               | 10.43       | 29.53              | 52.03        | -22.50      | AVG      |         |
| 5   | 1.4060          | 16.62               | 10.47       | 27.09              | 56.00        | -28.91      | QP       |         |
| 6   | 1.4060          | 12.33               | 10.47       | 22.80              | 46.00        | -23.20      | AVG      |         |
| 7   | 2.7900          | 19.28               | 10.43       | 29.71              | 56.00        | -26.29      | QP       |         |
| 8   | 2.8420          | 14.48               | 10.43       | 24.91              | 46.00        | -21.09      | AVG      |         |
| 9   | 6.5579          | 13.30               | 10.38       | 23.68              | 60.00        | -36.32      | QP       |         |
| 10  | 6.5579          | 2.43                | 10.38       | 12.81              | 50.00        | -37.19      | AVG      |         |
| 11  | 12.1859         | 3.97                | 10.39       | 14.36              | 60.00        | -45.64      | QP       |         |
| 12  | 12.3859         | 0.74                | 10.39       | 11.13              | 50.00        | -38.87      | AVG      |         |



Site: 844LAB  
Limit: FCC Part15 CE-Class B\_QP  
EUT: Olight Smart LED Bulb  
M/N.: Aurevo  
Mode: Lighting  
Note: white light flicker brightness

Phase:N  
Temperature(C):24(C)  
Humidity(%):63 %  
Test Time: 2025/6/12 14:14:52  
Power Rating: AC120V/60Hz  
Test Engineer:

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1   | 0.1620          | 32.39               | 10.42       | 42.81              | 65.36        | -22.55      | QP       |         |
| 2 * | 0.1620          | 25.54               | 10.42       | 35.96              | 55.36        | -19.40      | AVG      |         |
| 3   | 0.2300          | 25.58               | 10.43       | 36.01              | 62.45        | -26.44      | QP       |         |
| 4   | 0.2341          | 19.40               | 10.43       | 29.83              | 52.30        | -22.47      | AVG      |         |
| 5   | 2.8179          | 14.44               | 10.43       | 24.87              | 46.00        | -21.13      | AVG      |         |
| 6   | 2.8940          | 18.15               | 10.43       | 28.58              | 56.00        | -27.42      | QP       |         |
| 7   | 6.5020          | 15.74               | 10.39       | 26.13              | 60.00        | -33.87      | QP       |         |
| 8   | 6.5020          | 3.17                | 10.39       | 13.56              | 50.00        | -36.44      | AVG      |         |
| 9   | 8.3020          | 7.41                | 10.39       | 17.80              | 60.00        | -42.20      | QP       |         |
| 10  | 8.3020          | 1.52                | 10.39       | 11.91              | 50.00        | -38.09      | AVG      |         |
| 11  | 12.6820         | 0.92                | 10.38       | 11.30              | 50.00        | -38.70      | AVG      |         |
| 12  | 12.8580         | 3.94                | 10.38       | 14.32              | 60.00        | -45.68      | QP       |         |



|        |                                |                |                      |
|--------|--------------------------------|----------------|----------------------|
| Site:  | 844LAB                         | Phase:L1       | Temperature(C):24(C) |
| Limit: | FCC Part15 CE-Class B_QP       |                | Humidity(%):63%      |
| EUT:   | Olight Smart LED Bulb          | Test Time:     | 2025/6/12 14:19:14   |
| M/N.:  | Aurevo                         | Power Rating:  | AC120V/60Hz          |
| Mode:  | Lighting                       | Test Engineer: |                      |
| Note:  | white light flicker brightness |                |                      |

| No. | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Margin (dB) | Detector | Comment |
|-----|-----------------|---------------------|-------------|--------------------|--------------|-------------|----------|---------|
| 1   | 0.1660          | 32.65               | 10.43       | 43.08              | 65.16        | -22.08      | QP       |         |
| 2 * | 0.1660          | 25.15               | 10.43       | 35.58              | 55.16        | -19.58      | AVG      |         |
| 3   | 0.2860          | 23.96               | 10.45       | 34.41              | 60.64        | -26.23      | QP       |         |
| 4   | 0.2860          | 18.60               | 10.45       | 29.05              | 50.64        | -21.59      | AVG      |         |
| 5   | 1.4380          | 16.57               | 10.52       | 27.09              | 56.00        | -28.91      | QP       |         |
| 6   | 1.4380          | 12.41               | 10.52       | 22.93              | 46.00        | -23.07      | AVG      |         |
| 7   | 2.7900          | 18.52               | 10.48       | 29.00              | 56.00        | -27.00      | QP       |         |
| 8   | 2.8420          | 13.77               | 10.48       | 24.25              | 46.00        | -21.75      | AVG      |         |
| 9   | 6.5380          | 9.35                | 10.42       | 19.77              | 60.00        | -40.23      | QP       |         |
| 10  | 6.6540          | 0.33                | 10.43       | 10.76              | 50.00        | -39.24      | AVG      |         |
| 11  | 13.0820         | 6.00                | 10.56       | 16.56              | 60.00        | -43.44      | QP       |         |
| 12  | 13.0820         | 0.78                | 10.56       | 11.34              | 50.00        | -38.66      | AVG      |         |

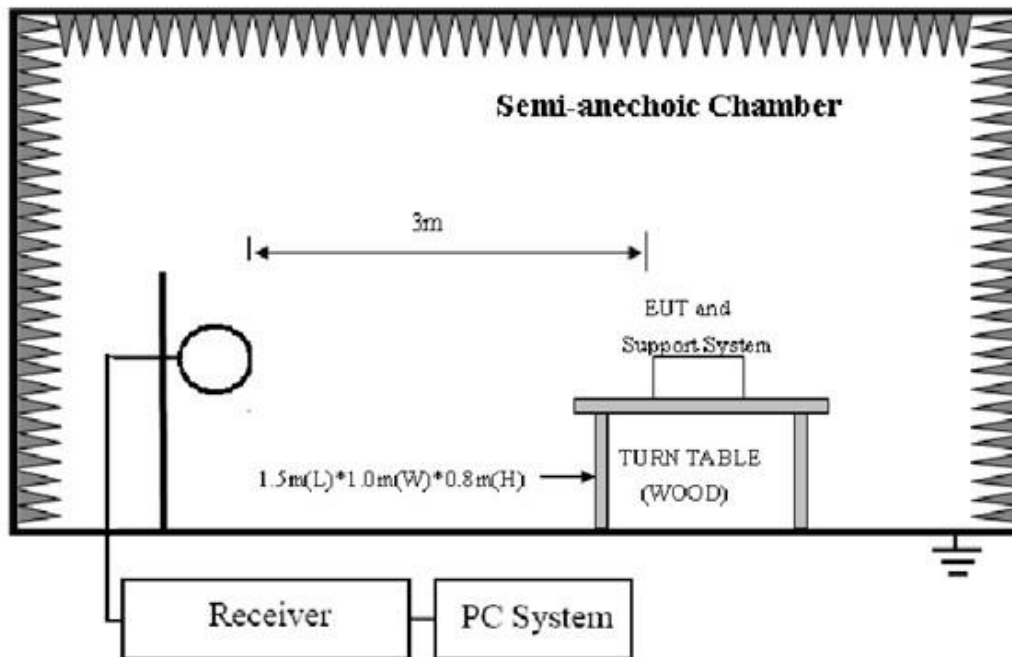
## 4. Radiated emission test

### 4.1. Test equipment

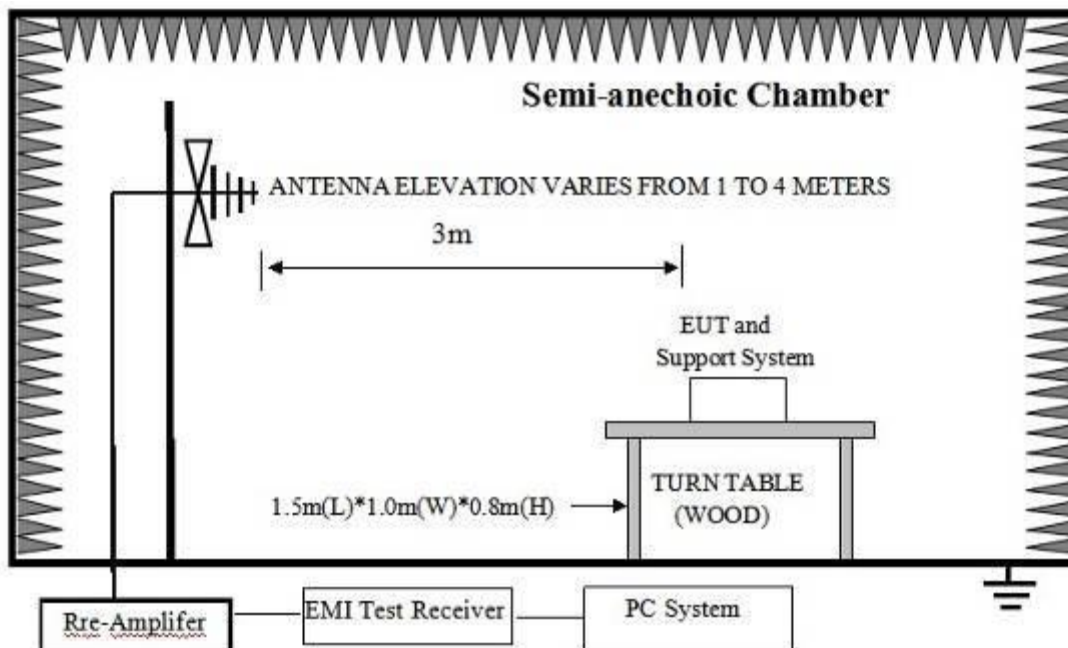
| Item | Equipment                  | Manufacturer | Model No.               | Serial No.                     | Last Cal.  | Cal. Interval |
|------|----------------------------|--------------|-------------------------|--------------------------------|------------|---------------|
| 1    | EMI Test Receiver          | R&S          | ESR26                   | 7250-30406<br>7528             | 2025-05-08 | 1 Year        |
| 2    | Trilog Broadband Antenna   | Schwarzbeck  | VULB9168                | 00969                          | 2025-05-08 | 2 Year        |
| 3    | Pre-amplifier              | R&S          | 8449B                   | 3113A04553                     | 2025-05-08 | 1 Year        |
| 4    | Active Loop antenna        | Schwarzbeck  | FMZB-1519               | 1519-038                       | 2025-05-08 | 1 Year        |
| 5    | Horn antenna               | Schwarzbeck  | BBHA9120D               | 453                            | 2023-05-19 | 2 Year        |
| 6    | Double Ridged Horn Antenna | A.H. System  | SAS-574                 | 584                            | 2025-05-08 | 1 Year        |
| 7    | Pre-amplifier              | R&S          | SCU18                   | 105326                         | 2025-05-08 | 1 Year        |
| 8    | RF Cable                   | GORE         | OSQ01Q010<br>78.7       | SN1545847<br>3                 | 2025-05-08 | 1 Year        |
| 9    | RF Cable                   | GORE         | OSQ01Q010<br>78.7       | SN1545847<br>4                 | 2025-05-08 | 1 Year        |
| 10   | RF Cable                   | ESCO         | ETS-LINGR<br>EN         | RFC-SMS-1<br>00-SMS-340<br>-IN | 2025-05-08 | 1 Year        |
| 11   | Measurement software       | Farad        | EZ-EMC(VE<br>R:1.1.4.2) | N/A                            | N/A        | N/A           |

## 4.2. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9KHz to 30MHz:



In 3m Anechoic Chamber Test Setup Diagram for 30MHz to 1GHz:



### 4.3. Limit

FCC 15.205 Restricted frequency band:

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

FCC 15.209 Limit

| Frequency (MHz) | Distance (Meters) | Field Strengths Limits dB(μV)/m |
|-----------------|-------------------|---------------------------------|
| 30--88          | 3                 | 40.0                            |
| 88--216         | 3                 | 43.5                            |
| 216--960        | 3                 | 46.0                            |
| 960--1000       | 3                 | 54.0                            |
| Above 1GHz      | 3                 | Peak: 74.0                      |
|                 | 3                 | Average:54.0                    |

Note: (1) The smaller limit shall apply at the cross point between two frequency bands.

(2)Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(3)The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz.Radiated

emissions limits in these three bands are based on measurements employing an average detector.

(4) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extr apolated by below formula: Limit 3m(dBuV/m)= Limit30m(dBuV/m) + 40Log(30m/3m)

(5)All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 4.4. Test Procedure

##### Procedure of Preliminary Test

Configuration EUT to simulate typical usage as described in clause 2.3 and test equipment as described in clause 4.2 of this report.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

EUT height should be 0.8m for below 1GHz and 1.5m for above 1GHz at ground with absorbers.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.10. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 25GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The X, Y, Z three axial are tested and the report only the worst case.

The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW:

| Frequency band | RBW    |
|----------------|--------|
| 9KHz-150KHz    | 200Hz  |
| 150KHz-30MHz   | 9KHz   |
| 30MHz-1GHz     | 120KHz |

For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RMS detector RBW 1MHz VBW 3MHz for Average measure.

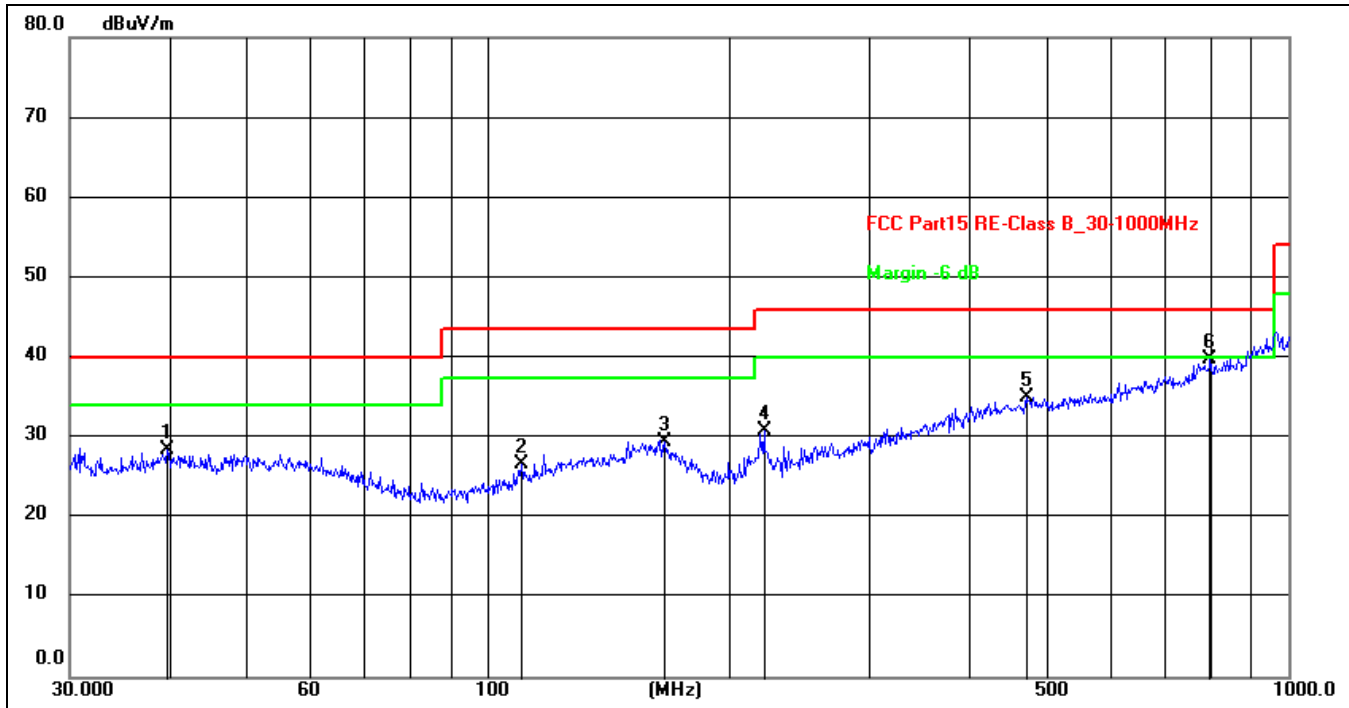
#### 4.5. Test result

**PASS. (See below detailed test result)**

Radiated Emissions Test Data Below 30MHz:

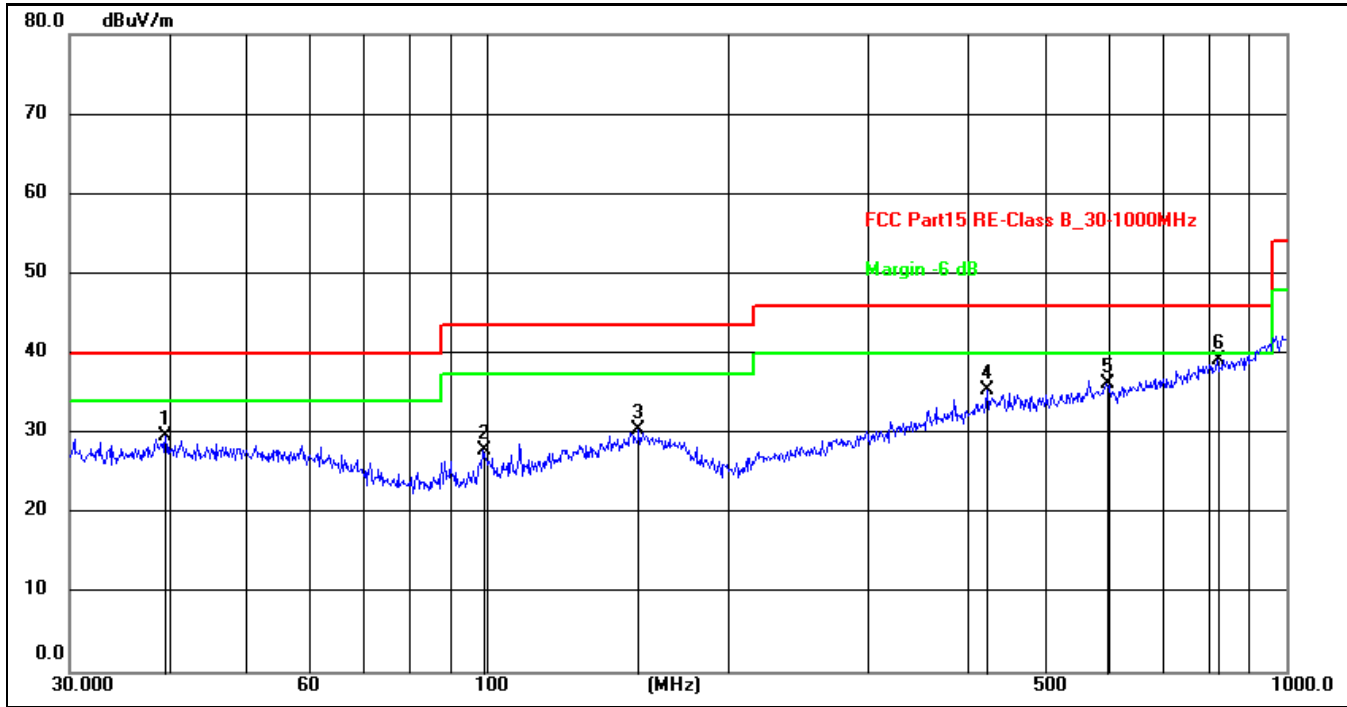
No emission found between lowest internal used/generated frequencies to 30MHz.

## Radiated Emission Test Result



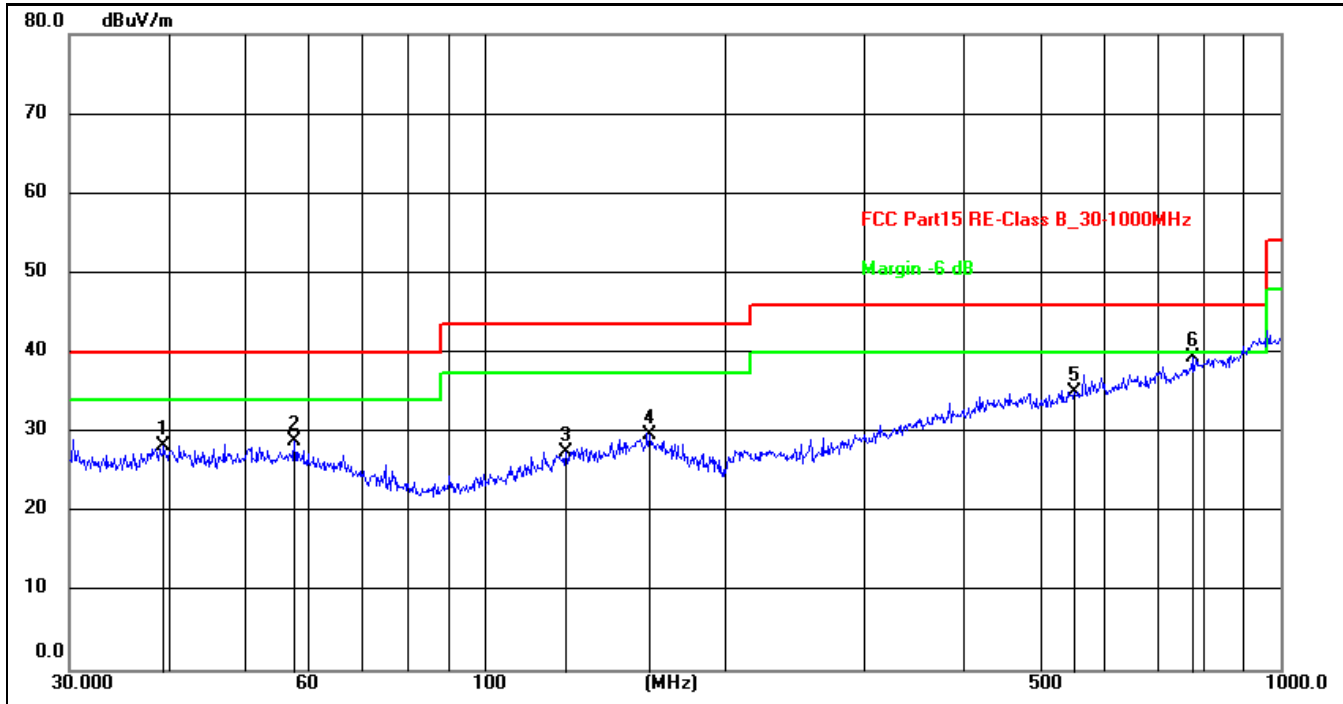
|        |                                  |                     |                      |
|--------|----------------------------------|---------------------|----------------------|
| Site:  | 966LAB                           | Antenna::Horizontal | Temperature(C):24(C) |
| Limit: | FCC Part15 RE-Class B_30-1000MHz |                     | Humidity(%):60%      |
| EUT:   | Olight Smart LED Bulb            | Test Time:          | 2025/6/12 9:44:32    |
| M/N.:  | Aurevo                           | Power Rating:       | AC 120V/60Hz         |
| Mode:  | Lighting                         | Test Engineer:      |                      |
| Note:  | white light maximum brightness   |                     |                      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 39.7146         | 14.19          | 14.29         | 28.48          | 40.00          | -11.52      | peak | 200         | 21            |        |
| 2   | 110.1816        | 14.91          | 11.76         | 26.67          | 43.50          | -16.83      | peak | 200         | 282           |        |
| 3   | 166.0680        | 15.09          | 14.31         | 29.40          | 43.50          | -14.10      | peak | 100         | 79            |        |
| 4   | 221.3921        | 19.28          | 11.62         | 30.90          | 46.00          | -15.10      | peak | 100         | 55            |        |
| 5   | 470.5232        | 16.61          | 18.35         | 34.96          | 46.00          | -11.04      | peak | 100         | 240           |        |
| 6 * | 798.9797        | 15.36          | 24.52         | 39.88          | 46.00          | -6.12       | peak | 200         | 162           |        |



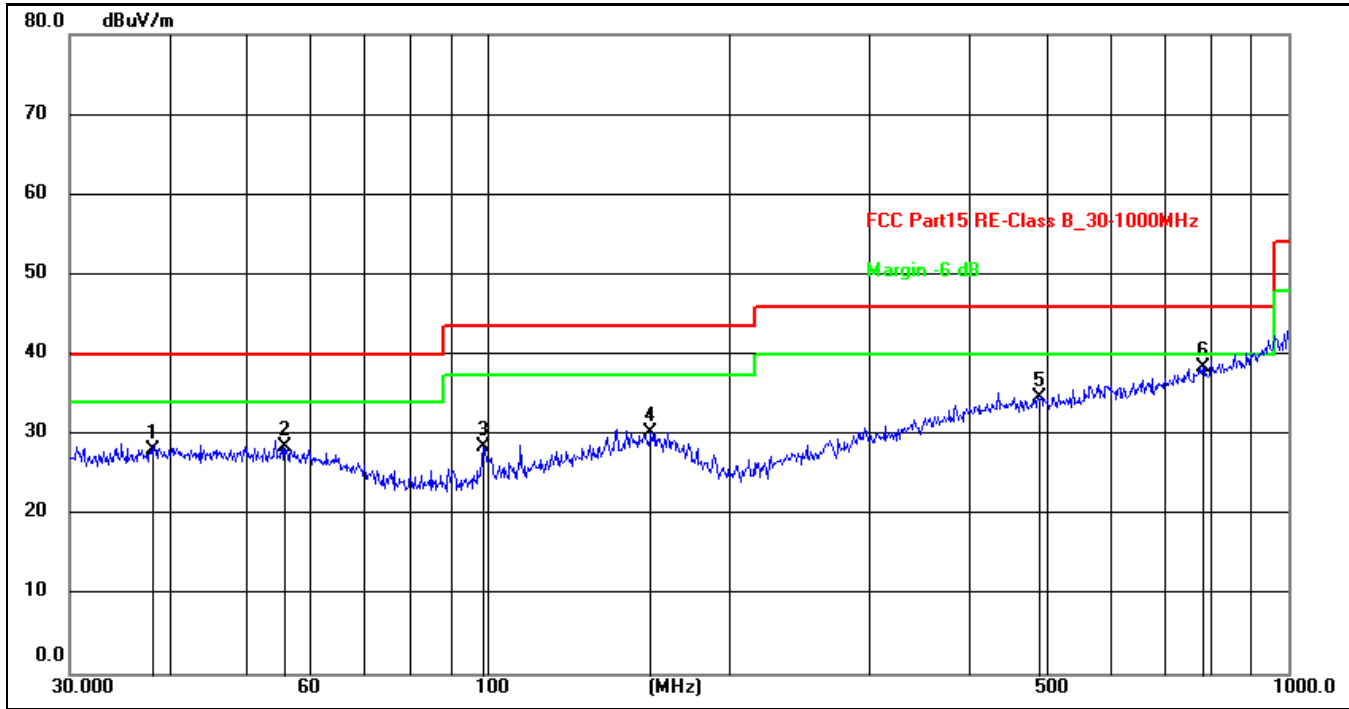
|        |                                  |                |          |                 |           |
|--------|----------------------------------|----------------|----------|-----------------|-----------|
| Site:  | 966LAB                           | Antenna::      | Vertical | Temperature(C): | 24(C)     |
| Limit: | FCC Part15 RE-Class B_30-1000MHz | Test Time:     |          | Humidity(%):    | 60%       |
| EUT:   | Olight Smart LED Bulb            | Power Rating:  |          | AC              | 120V/60Hz |
| M/N.:  | Aurevo                           | Test Engineer: |          |                 |           |
| Mode:  | Lighting                         |                |          |                 |           |
| Note:  | white light maximum brightness   |                |          |                 |           |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 39.5757         | 14.88          | 14.77         | 29.65          | 40.00          | -10.35      | peak | 200         | 344           |        |
| 2   | 98.8326         | 16.79          | 11.16         | 27.95          | 43.50          | -15.55      | peak | 100         | 39            |        |
| 3   | 154.8204        | 14.96          | 15.45         | 30.41          | 43.50          | -13.09      | peak | 100         | 155           |        |
| 4   | 422.0577        | 17.99          | 17.35         | 35.34          | 46.00          | -10.66      | peak | 200         | 279           |        |
| 5   | 595.1329        | 15.38          | 20.78         | 36.16          | 46.00          | -9.84       | peak | 200         | 15            |        |
| 6 * | 818.8341        | 15.24          | 23.87         | 39.11          | 46.00          | -6.89       | peak | 100         | 288           |        |



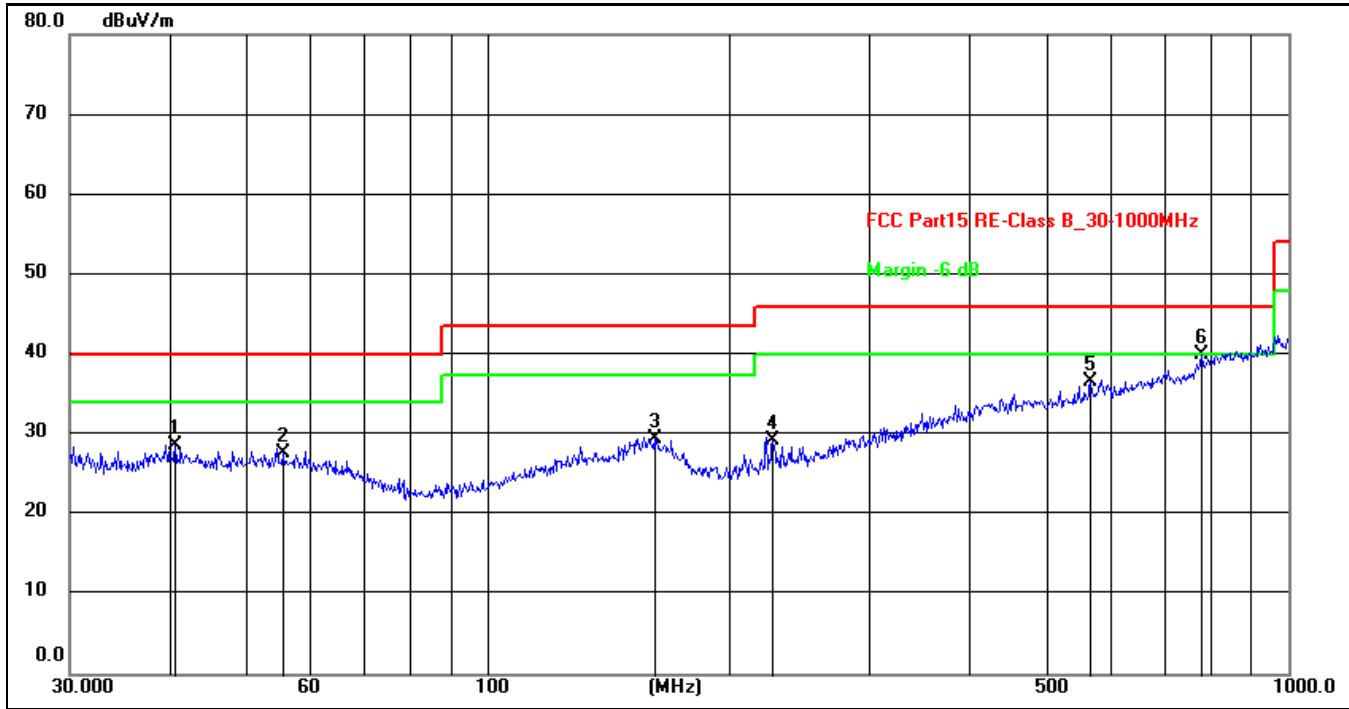
|        |                                  |                     |                      |
|--------|----------------------------------|---------------------|----------------------|
| Site:  | 966LAB                           | Antenna::Horizontal | Temperature(C):24(C) |
| Limit: | FCC Part15 RE-Class B_30-1000MHz |                     | Humidity(% ):60%     |
| EUT:   | Olight Smart LED Bulb            | Test Time:          | 2025/6/12 9:51:17    |
| M/N.:  | Aurevo                           | Power Rating:       | AC 120V/60Hz         |
| Mode:  | Lighting                         | Test Engineer:      |                      |
| Note:  | white light minimum brightness   |                     |                      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 39.4371         | 13.98          | 14.22         | 28.20          | 40.00          | -11.80      | peak | 200         | 280           |        |
| 2   | 57.5939         | 15.67          | 13.22         | 28.89          | 40.00          | -11.11      | peak | 100         | 115           |        |
| 3   | 126.3285        | 13.90          | 13.51         | 27.41          | 43.50          | -16.09      | peak | 200         | 32            |        |
| 4   | 160.9089        | 14.77          | 14.91         | 29.68          | 43.50          | -13.82      | peak | 100         | 176           |        |
| 5   | 550.9480        | 15.09          | 19.96         | 35.05          | 46.00          | -10.95      | peak | 200         | 25            |        |
| 6 * | 774.1584        | 15.10          | 24.31         | 39.41          | 46.00          | -6.59       | peak | 200         | 283           |        |



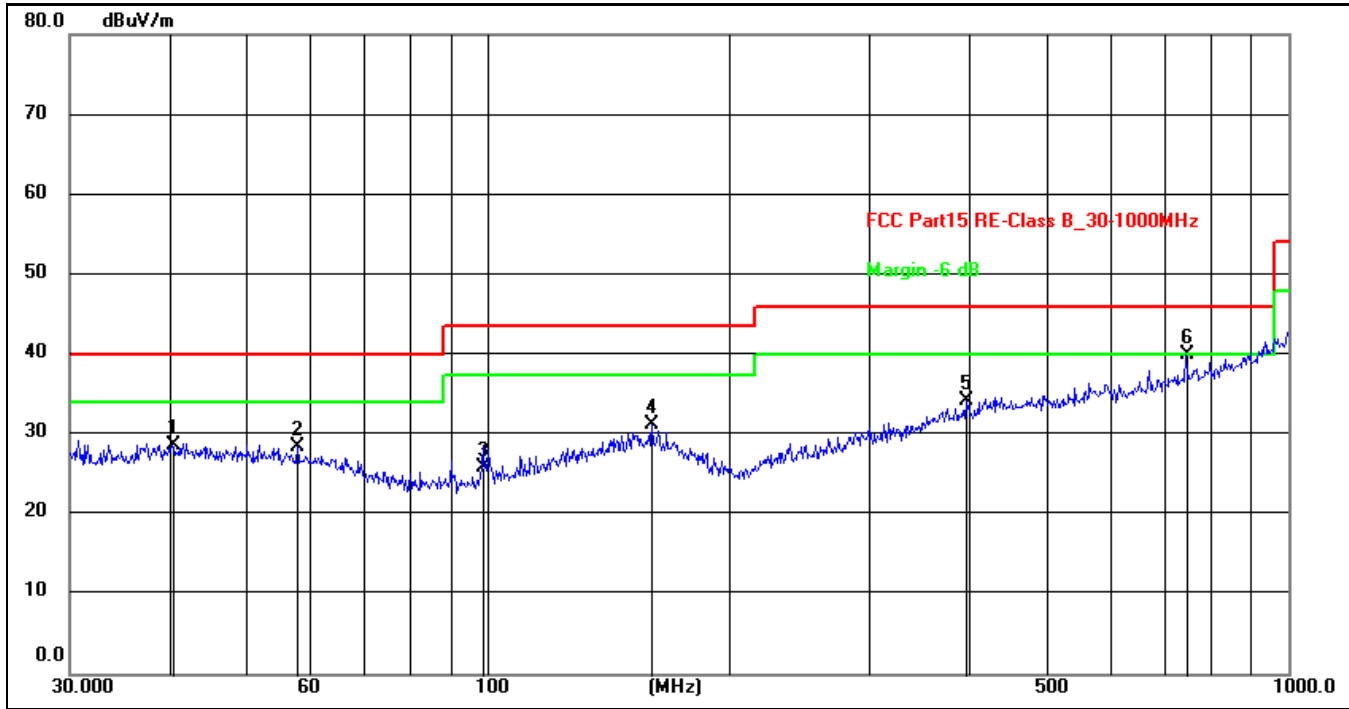
|        |                                  |                   |                      |
|--------|----------------------------------|-------------------|----------------------|
| Site:  | 966LAB                           | Antenna::Vertical | Temperature(C):24(C) |
| Limit: | FCC Part15 RE-Class B_30-1000MHz |                   | Humidity(%):60%      |
| EUT:   | Olight Smart LED Bulb            | Test Time:        | 2025/6/12 9:53:53    |
| M/N.:  | Aurevo                           | Power Rating:     | AC 120V/60Hz         |
| Mode:  | Lighting                         | Test Engineer:    |                      |
| Note:  | white light minimum brightness   |                   |                      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 37.9450         | 13.50          | 14.54         | 28.04          | 40.00          | -11.96      | peak | 200         | 208           |        |
| 2   | 55.6094         | 14.52          | 13.94         | 28.46          | 40.00          | -11.54      | peak | 100         | 273           |        |
| 3   | 98.4866         | 17.39          | 11.13         | 28.52          | 43.50          | -14.98      | peak | 100         | 228           |        |
| 4   | 159.7844        | 14.84          | 15.46         | 30.30          | 43.50          | -13.20      | peak | 100         | 308           |        |
| 5   | 487.3151        | 16.02          | 18.61         | 34.63          | 46.00          | -11.37      | peak | 100         | 40            |        |
| 6 * | 782.3453        | 14.89          | 23.56         | 38.45          | 46.00          | -7.55       | peak | 200         | 293           |        |



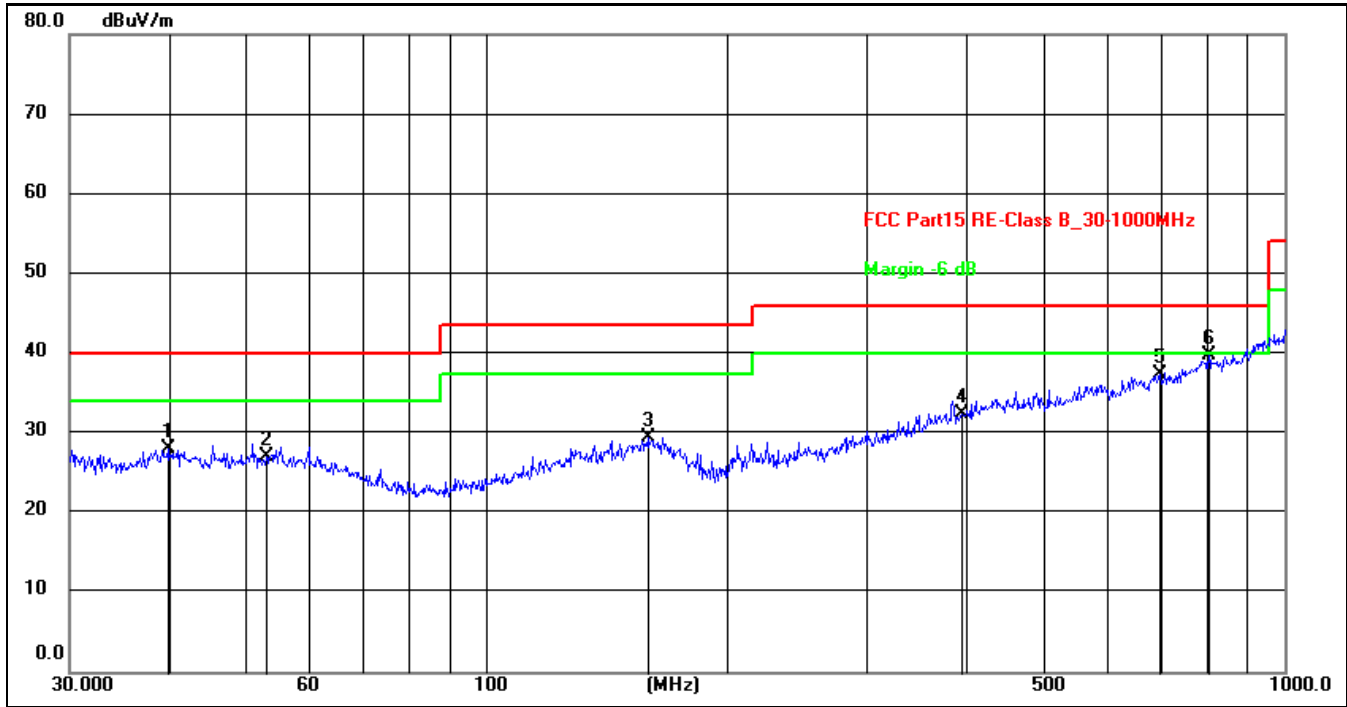
|               |                                  |                       |            |                        |                   |
|---------------|----------------------------------|-----------------------|------------|------------------------|-------------------|
| <b>Site:</b>  | 966LAB                           | <b>Antenna::</b>      | Horizontal | <b>Temperature(C):</b> | 24(C)             |
| <b>Limit:</b> | FCC Part15 RE-Class B_30-1000MHz |                       |            | <b>Humidity(% ):</b>   | 60%               |
| <b>EUT:</b>   | Olight Smart LED Bulb            | <b>Test Time:</b>     |            |                        | 2025/6/12 9:58:34 |
| <b>M/N.:</b>  | Aurevo                           | <b>Power Rating:</b>  |            |                        | AC 120V/60Hz      |
| <b>Mode:</b>  | Lighting                         | <b>Test Engineer:</b> |            |                        |                   |
| <b>Note:</b>  | red light maximum brightness     |                       |            |                        |                   |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 40.7016         | 14.51          | 14.22         | 28.73          | 40.00          | -11.27      | peak | 100         | 315           |        |
| 2   | 55.4147         | 14.32          | 13.36         | 27.68          | 40.00          | -12.32      | peak | 200         | 156           |        |
| 3   | 161.4740        | 14.60          | 14.84         | 29.44          | 43.50          | -14.06      | peak | 200         | 132           |        |
| 4   | 226.8936        | 17.66          | 11.70         | 29.36          | 46.00          | -16.64      | peak | 100         | 27            |        |
| 5   | 566.6221        | 16.23          | 20.31         | 36.54          | 46.00          | -9.46       | peak | 200         | 355           |        |
| 6 * | 779.6067        | 15.59          | 24.38         | 39.97          | 46.00          | -6.03       | peak | 200         | 324           |        |



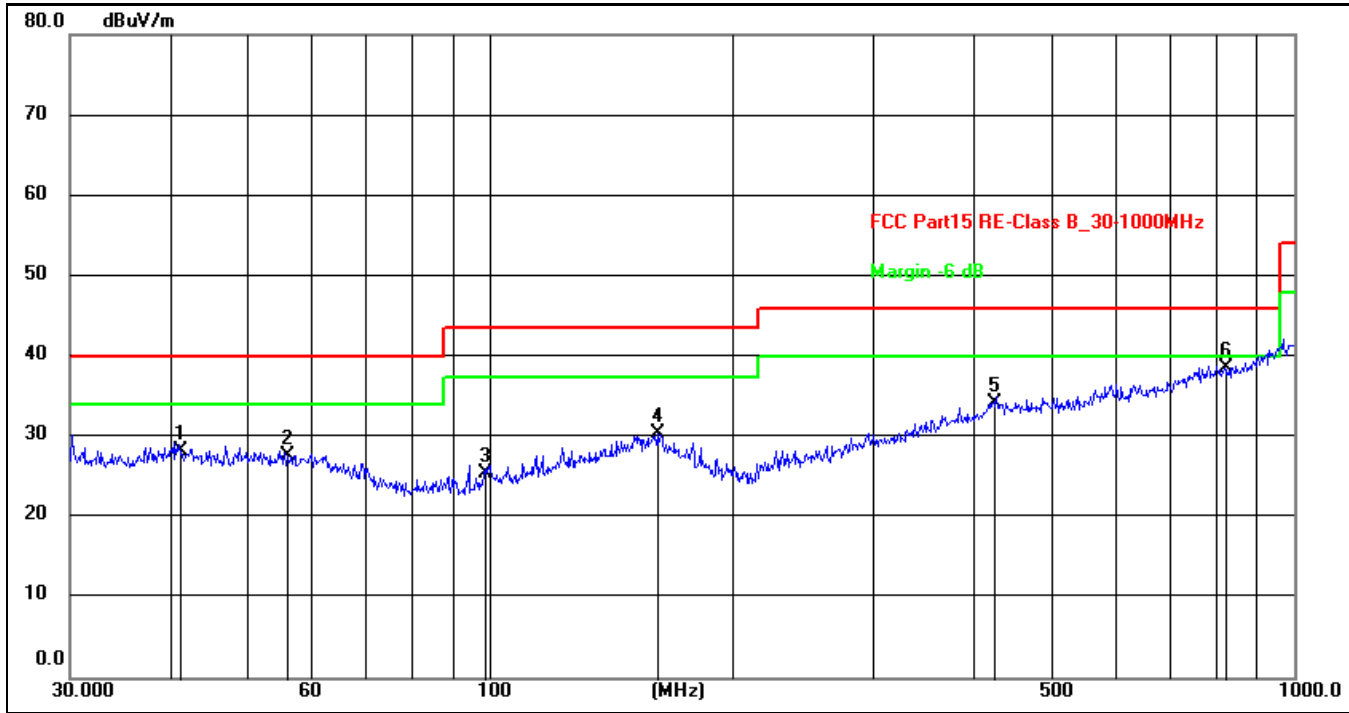
|        |                                  |                |          |                 |                    |
|--------|----------------------------------|----------------|----------|-----------------|--------------------|
| Site:  | 966LAB                           | Antenna::      | Vertical | Temperature(C): | 24(C)              |
| Limit: | FCC Part15 RE-Class B_30-1000MHz |                |          | Humidity(%):    | 60%                |
| EUT:   | Olight Smart LED Bulb            | Test Time:     |          |                 | 2025/6/12 10:01:10 |
| M/N.:  | Aurevo                           | Power Rating:  |          |                 | AC 120V/60Hz       |
| Mode:  | Lighting                         | Test Engineer: |          |                 |                    |
| Note:  | red light maximum brightness     |                |          |                 |                    |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 40.2757         | 13.87          | 14.81         | 28.68          | 40.00          | -11.32      | peak | 100         | 41            |        |
| 2   | 57.7962         | 14.66          | 13.77         | 28.43          | 40.00          | -11.57      | peak | 200         | 3             |        |
| 3   | 98.1419         | 14.89          | 11.11         | 26.00          | 43.50          | -17.50      | peak | 100         | 24            |        |
| 4   | 160.3456        | 15.79          | 15.43         | 31.22          | 43.50          | -12.28      | peak | 100         | 355           |        |
| 5   | 396.2415        | 17.48          | 16.67         | 34.15          | 46.00          | -11.85      | peak | 100         | 355           |        |
| 6 * | 744.8661        | 17.00          | 23.06         | 40.06          | 46.00          | -5.94       | peak | 100         | 194           |        |



|               |                                  |                       |                    |                        |       |
|---------------|----------------------------------|-----------------------|--------------------|------------------------|-------|
| <b>Site:</b>  | 966LAB                           | <b>Antenna::</b>      | Horizontal         | <b>Temperature(C):</b> | 24(C) |
| <b>Limit:</b> | FCC Part15 RE-Class B_30-1000MHz |                       |                    | <b>Humidity(% ):</b>   | 60%   |
| <b>EUT:</b>   | Olight Smart LED Bulb            | <b>Test Time:</b>     | 2025/6/12 10:27:15 |                        |       |
| <b>M/N.:</b>  | Aurevo                           | <b>Power Rating:</b>  | AC 120V/60Hz       |                        |       |
| <b>Mode:</b>  | Lighting                         | <b>Test Engineer:</b> |                    |                        |       |
| <b>Note:</b>  | white light flicker brightness   |                       |                    |                        |       |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 39.8542         | 13.75          | 14.32         | 28.07          | 40.00          | -11.93      | peak | 200         | 43            |        |
| 2   | 52.9453         | 13.49          | 13.51         | 27.00          | 40.00          | -13.00      | peak | 200         | 61            |        |
| 3   | 159.2251        | 14.44          | 14.97         | 29.41          | 43.50          | -14.09      | peak | 200         | 150           |        |
| 4   | 394.8545        | 16.04          | 16.41         | 32.45          | 46.00          | -13.55      | peak | 200         | 85            |        |
| 5   | 699.3045        | 14.34          | 23.00         | 37.34          | 46.00          | -8.66       | peak | 200         | 2             |        |
| 6 * | 804.6027        | 15.22          | 24.49         | 39.71          | 46.00          | -6.29       | peak | 100         | 176           |        |



|        |                                  |                |          |                    |       |
|--------|----------------------------------|----------------|----------|--------------------|-------|
| Site:  | 966LAB                           | Antenna::      | Vertical | Temperature(C):    | 24(C) |
| Limit: | FCC Part15 RE-Class B_30-1000MHz |                |          | Humidity(% ):      | 60%   |
| EUT:   | Olight Smart LED Bulb            | Test Time:     |          | 2025/6/12 10:29:51 |       |
| M/N.:  | Aurevo                           | Power Rating:  |          | AC 120V/60Hz       |       |
| Mode:  | Lighting                         | Test Engineer: |          |                    |       |
| Note:  | white light flicker brightness   |                |          |                    |       |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 41.2765         | 13.53          | 14.73         | 28.26          | 40.00          | -11.74      | peak | 100         | 51            |        |
| 2   | 56.0007         | 13.86          | 13.91         | 27.77          | 40.00          | -12.23      | peak | 100         | 284           |        |
| 3   | 98.1419         | 14.43          | 11.11         | 25.54          | 43.50          | -17.96      | peak | 100         | 7             |        |
| 4   | 161.4742        | 15.08          | 15.32         | 30.40          | 43.50          | -13.10      | peak | 100         | 27            |        |
| 5   | 423.5403        | 16.78          | 17.40         | 34.18          | 46.00          | -11.82      | peak | 100         | 0             |        |
| 6 * | 818.8341        | 14.67          | 23.87         | 38.54          | 46.00          | -7.46       | peak | 100         | 347           |        |

### For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n(H20) Mode all have been tested, only worse case 802.11b mode is reported

#### 802.11b Mode (above 1GHz)

Note: 802.11b/802.11g/802.11n (H20) all have been tested, only worse case 802.11b is reported

| Frequency (MHz) |                         |    | 2412           |             | Polarity         |                       |                   | HORIZONTAL        |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|-------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (Db) | Preamplifier (dB) | Correction Factor (dB/m) |
| 4824.00         | 61.43                   | PK | 74.00          | -12.57      | 56.59            | 33.74                 | 6.72              | 35.62             | 4.84                     |
| 4824.00         | 44.06                   | AV | 54.00          | -9.94       | 39.22            | 33.74                 | 6.72              | 35.62             | 4.84                     |
| 7236.00         | 55.80                   | PK | 74.00          | -18.20      | 45.95            | 36.24                 | 8.75              | 35.14             | 9.85                     |
| 7236.00         | 43.41                   | AV | 54.00          | -10.59      | 33.56            | 36.24                 | 8.75              | 35.14             | 9.85                     |

| Frequency (MHz) |                         |    | 2412           |             | Polarity         |                       |                   | VERTICAL          |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|-------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (Db) | Preamplifier (dB) | Correction Factor (dB/m) |
| 4824.00         | 61.59                   | PK | 74.00          | -12.41      | 56.75            | 33.74                 | 6.72              | 35.62             | 4.84                     |
| 4824.00         | 44.85                   | AV | 54.00          | -9.15       | 40.01            | 33.74                 | 6.72              | 35.62             | 4.84                     |
| 7236.00         | 53.37                   | PK | 74.00          | -20.63      | 43.52            | 36.24                 | 8.75              | 35.14             | 9.85                     |
| 7236.00         | 42.89                   | AV | 54.00          | -11.11      | 33.04            | 36.24                 | 8.75              | 35.14             | 9.85                     |

| Frequency (MHz) |                         |    | 2437           |             | Polarity         |                       |                   | HORIZONTAL        |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|-------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (Db) | Preamplifier (dB) | Correction Factor (dB/m) |
| 4874.00         | 61.50                   | PK | 74.00          | -12.50      | 55.35            | 33.54                 | 6.83              | 34.22             | 6.15                     |
| 4874.00         | 44.24                   | AV | 54.00          | -9.76       | 38.09            | 33.54                 | 6.83              | 34.22             | 6.15                     |
| 7311.00         | 55.40                   | PK | 74.00          | -18.60      | 43.43            | 37.85                 | 9.14              | 35.02             | 11.97                    |
| 7311.00         | 42.60                   | AV | 54.00          | -11.40      | 30.63            | 37.85                 | 9.14              | 35.02             | 11.97                    |

| Frequency (MHz) |                         |    | 2437           |             | Polarity         |                       |                   | VERTICAL          |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|-------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (Db) | Preamplifier (dB) | Correction Factor (Db/m) |
| 4874.00         | 60.23                   | PK | 74.00          | -13.77      | 54.08            | 33.54                 | 6.83              | 34.22             | 6.15                     |
| 4874.00         | 43.90                   | AV | 54.00          | -10.10      | 37.75            | 33.54                 | 6.83              | 34.22             | 6.15                     |
| 7311.00         | 54.01                   | PK | 74.00          | -19.99      | 42.04            | 37.85                 | 9.14              | 35.02             | 11.97                    |
| 7311.00         | 43.54                   | AV | 54.00          | -10.46      | 31.57            | 37.85                 | 9.14              | 35.02             | 11.97                    |

| Frequency (MHz) |                         |    | 2462           |             | Polarity         |                       |                   | HORIZONTAL        |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|-------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (Db) | Preamplifier (dB) | Correction Factor (dB/m) |
| 4924.00         | 61.40                   | PK | 74.00          | -12.60      | 56.07            | 32.58                 | 6.96              | 34.21             | 5.33                     |
| 4924.00         | 43.86                   | AV | 54.00          | -10.14      | 38.53            | 32.58                 | 6.96              | 34.21             | 5.33                     |
| 7386.00         | 55.14                   | PK | 74.00          | -18.86      | 43.52            | 37.57                 | 9.21              | 35.16             | 11.62                    |
| 7386.00         | 42.02                   | AV | 54.00          | -11.98      | 30.40            | 37.57                 | 9.21              | 35.16             | 11.62                    |

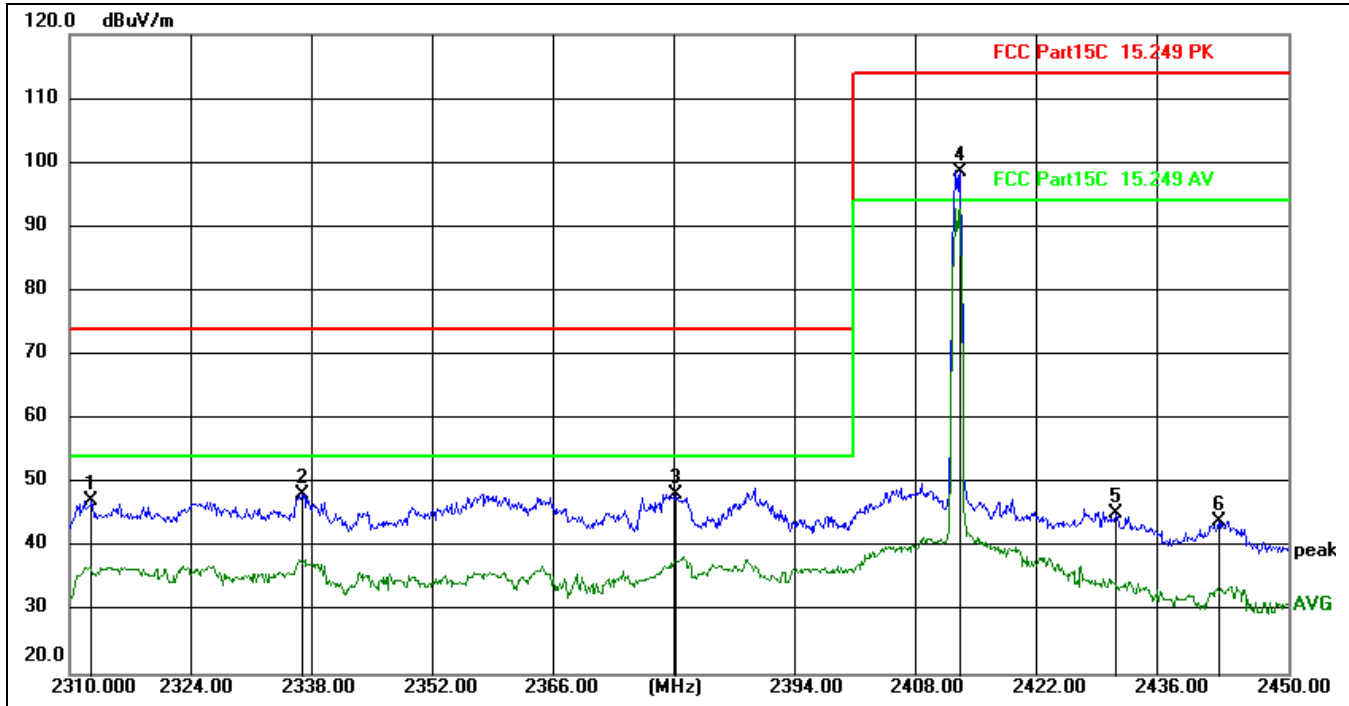
| Frequency (MHz) |                         |    | 2462           |             | Polarity         |                       |                   | VERTICAL          |                          |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|-------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (Db) | Preamplifier (dB) | Correction Factor (dB/m) |
| 4924.00         | 60.13                   | PK | 74.00          | -13.87      | 54.80            | 32.58                 | 6.96              | 34.21             | 5.33                     |
| 4924.00         | 43.67                   | AV | 54.00          | -10.33      | 38.34            | 32.58                 | 6.96              | 34.21             | 5.33                     |
| 7386.00         | 53.05                   | PK | 74.00          | -20.95      | 41.43            | 37.57                 | 9.21              | 35.16             | 11.62                    |
| 7386.00         | 42.05                   | AV | 54.00          | -11.95      | 30.43            | 37.57                 | 9.21              | 35.16             | 11.62                    |

#### REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.
6. Other emissions are attenuated 20dB below the limits from 9 kHz to 30MHz, so it does not recorded in report.

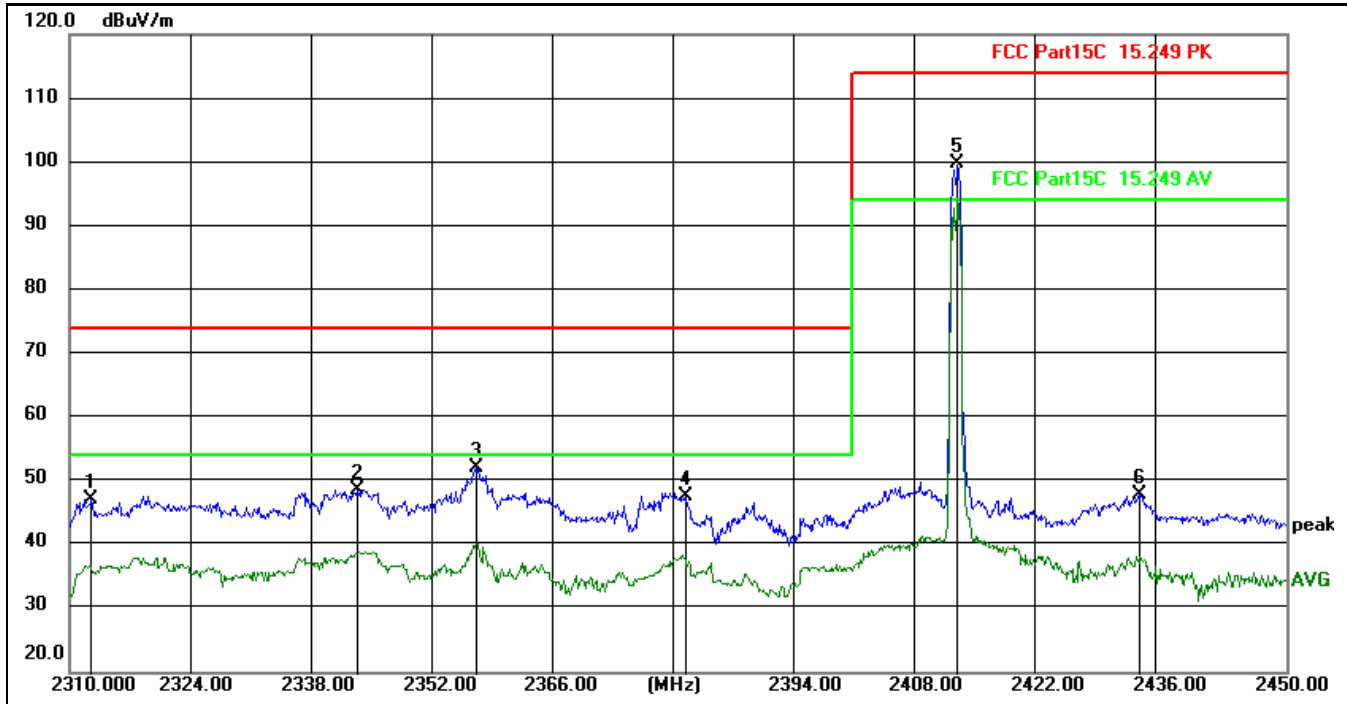
## Results of Band Edges Test (Radiated)

Note: 802.11b/802.11g/802.11n (H20) all have been tested, only worse case 802.11b is reported



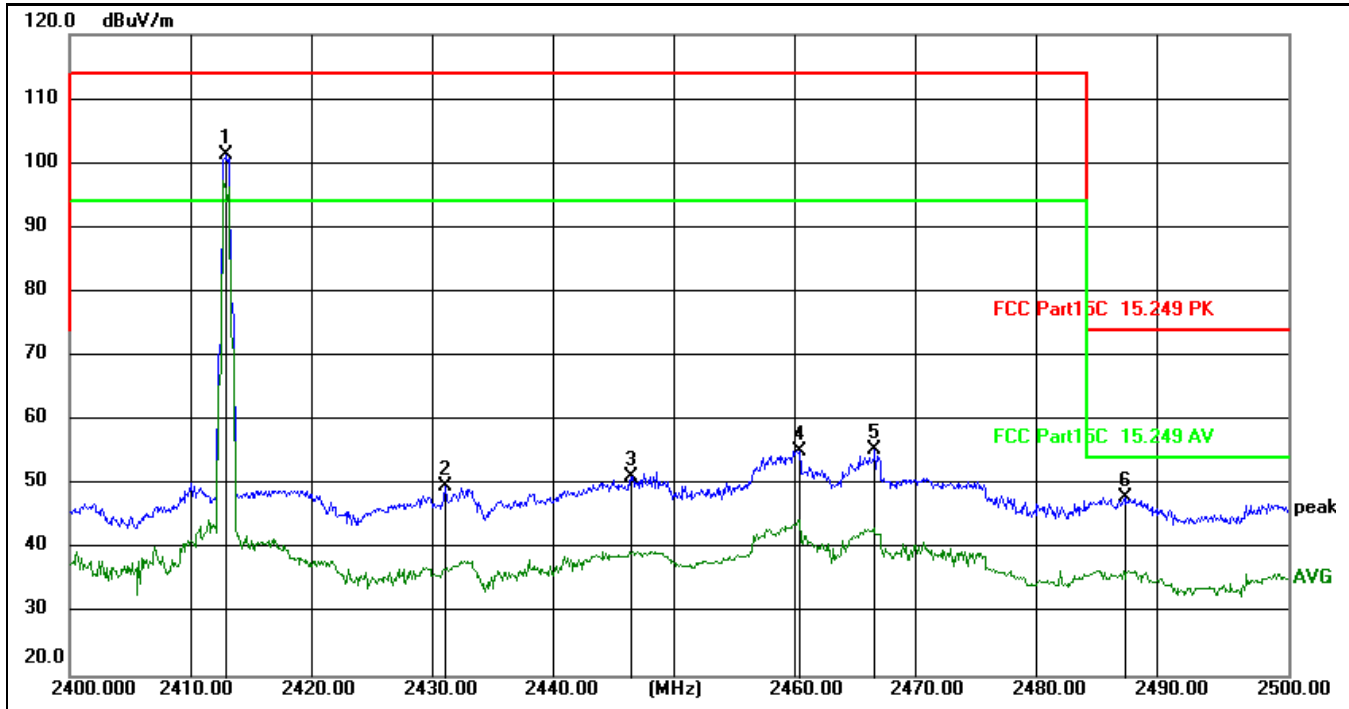
|               |                       |                       |            |                        |              |
|---------------|-----------------------|-----------------------|------------|------------------------|--------------|
| <b>Site:</b>  | 966LAB                | <b>Antenna::</b>      | Horizontal | <b>Temperature(C):</b> | 24(C)        |
| <b>Limit:</b> | FCC Part15C 15.249 PK |                       |            | <b>Humidity(%):</b>    | 60%          |
| <b>EUT:</b>   | Olight Smart LED Bulb | <b>Test Time:</b>     |            | <b>Power Rating:</b>   | AC 120V/60HZ |
| <b>M/N.:</b>  | Aurevo(2412)          | <b>Test Engineer:</b> |            |                        |              |
| <b>Mode:</b>  | Working               |                       |            |                        |              |
| <b>Note:</b>  |                       |                       |            |                        |              |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2312.520        | 41.69          | 5.49          | 47.18          | 74.00          | -26.82      | peak |             |               |        |
| 2   | 2336.740        | 42.70          | 5.51          | 48.21          | 74.00          | -25.79      | peak |             |               |        |
| 3   | 2379.720        | 42.72          | 5.55          | 48.27          | 74.00          | -25.73      | peak |             |               |        |
| 4 * | 2412.327        | 92.85          | 5.58          | 98.43          | 114.00         | -15.57      | peak |             |               |        |
| 5   | 2430.260        | 39.51          | 5.60          | 45.11          | 114.00         | -68.89      | peak |             |               |        |
| 6   | 2442.020        | 38.31          | 5.61          | 43.92          | 114.00         | -70.08      | peak |             |               |        |



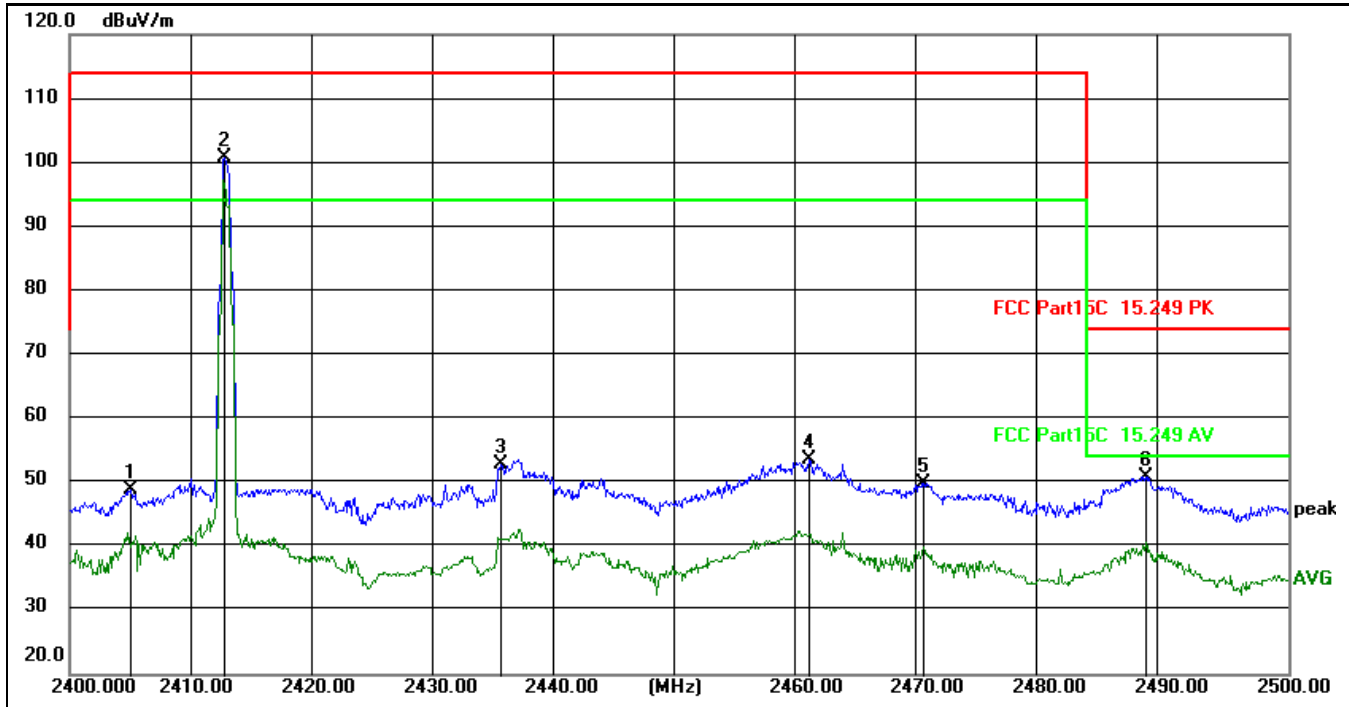
|               |                       |                       |                    |                        |       |
|---------------|-----------------------|-----------------------|--------------------|------------------------|-------|
| <b>Site:</b>  | 966LAB                | <b>Antenna::</b>      | Vertical           | <b>Temperature(C):</b> | 24(C) |
| <b>Limit:</b> | FCC Part15C 15.249 PK |                       |                    | <b>Humidity(%):</b>    | 60%   |
| <b>EUT:</b>   | Olight Smart LED Bulb | <b>Test Time:</b>     | 2025/5/27 16:01:20 |                        |       |
| <b>M/N.:</b>  | Aurevo(2412)          | <b>Power Rating:</b>  | AC 120V/60HZ       |                        |       |
| <b>Mode:</b>  | Working               | <b>Test Engineer:</b> |                    |                        |       |
| <b>Note:</b>  |                       |                       |                    |                        |       |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2312.520        | 41.69          | 5.49          | 47.18          | 74.00          | -26.82      | peak |             |               |        |
| 2   | 2343.040        | 43.25          | 5.52          | 48.77          | 74.00          | -25.23      | peak |             |               |        |
| 3   | 2356.760        | 46.48          | 5.53          | 52.01          | 74.00          | -21.99      | peak |             |               |        |
| 4   | 2380.840        | 42.11          | 5.55          | 47.66          | 74.00          | -26.34      | peak |             |               |        |
| 5 * | 2412.200        | 94.29          | 5.58          | 99.87          | 114.00         | -14.13      | peak |             |               |        |
| 6   | 2433.060        | 42.36          | 5.60          | 47.96          | 114.00         | -66.04      | peak |             |               |        |



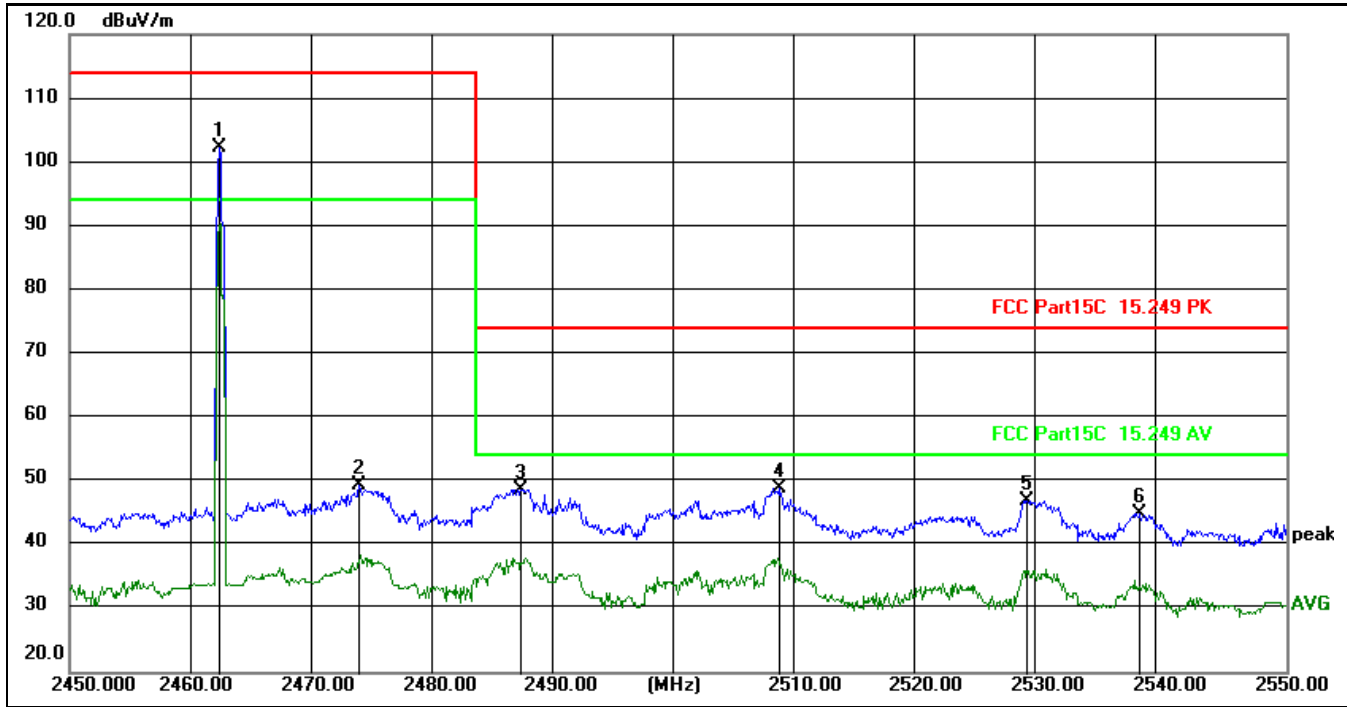
|        |                       |                     |                      |
|--------|-----------------------|---------------------|----------------------|
| Site:  | 966LAB                | Antenna::Horizontal | Temperature(C):24(C) |
| Limit: | FCC Part15C 15.249 PK |                     | Humidity(%):60%      |
| EUT:   | Olight Smart LED Bulb | Test Time:          | 2025/5/27 16:13:43   |
| M/N.:  | Aurevo(2412)          | Power Rating:       | AC 120V/60HZ         |
| Mode:  | Working               | Test Engineer:      |                      |
| Note:  |                       |                     |                      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1 * | 2412.900        | 95.64          | 5.58          | 101.22         | 114.00         | -12.78      | peak |             |               |        |
| 2   | 2430.800        | 43.97          | 5.60          | 49.57          | 114.00         | -64.43      | peak |             |               |        |
| 3   | 2446.100        | 45.55          | 5.62          | 51.17          | 114.00         | -62.83      | peak |             |               |        |
| 4   | 2459.900        | 49.47          | 5.63          | 55.10          | 114.00         | -58.90      | peak |             |               |        |
| 5   | 2466.100        | 49.62          | 5.64          | 55.26          | 114.00         | -58.74      | peak |             |               |        |
| 6   | 2486.600        | 42.16          | 5.66          | 47.82          | 74.00          | -26.18      | peak |             |               |        |



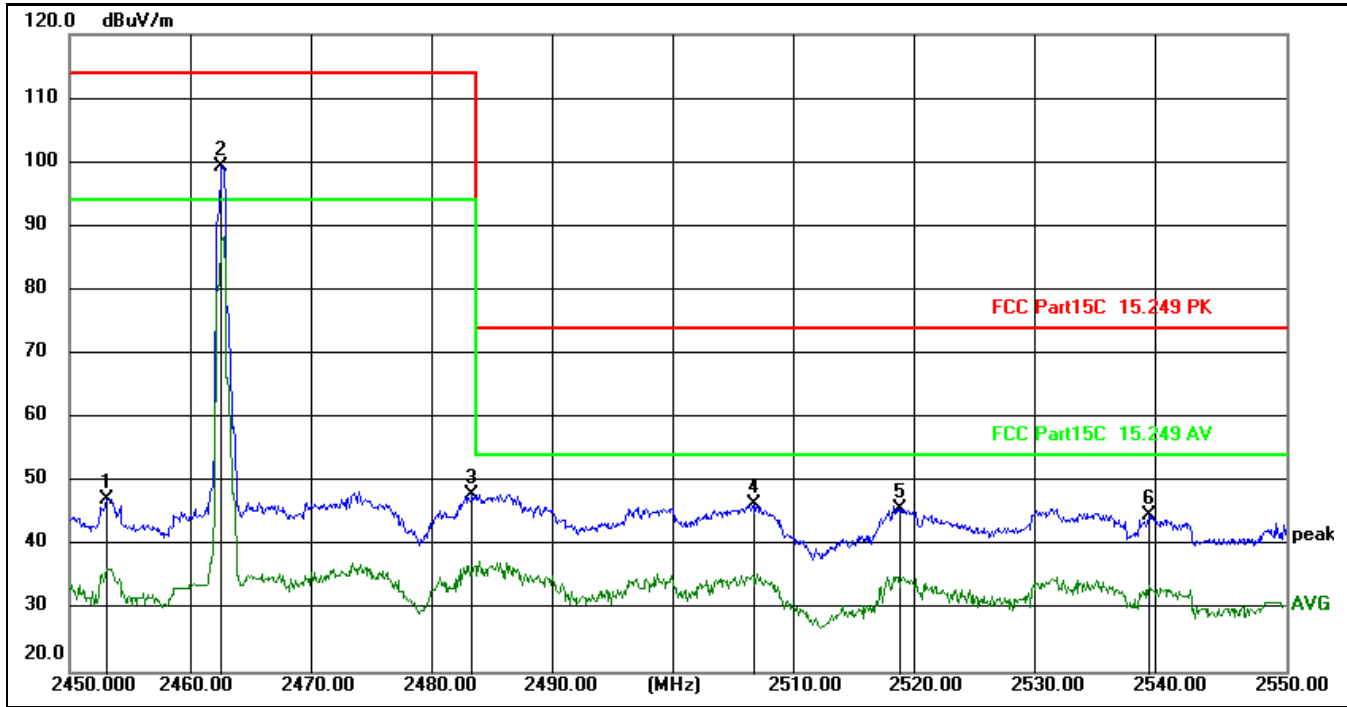
|        |                       |                   |                      |
|--------|-----------------------|-------------------|----------------------|
| Site:  | 966LAB                | Antenna::Vertical | Temperature(C):24(C) |
| Limit: | FCC Part15C 15.249 PK | Test Time:        | Humidity(% ):60 %    |
| EUT:   | Olight Smart LED Bulb | Power Rating:     | 2025/5/30 16:13:43   |
| M/N.:  | Aurevo(2412)          | Test Engineer:    | AC 120V/60HZ         |
| Mode:  | Working               |                   |                      |
| Note:  |                       |                   |                      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2405.000        | 43.40          | 5.58          | 48.98          | 114.00         | -65.02      | peak |             |               |        |
| 2 * | 2412.700        | 95.23          | 5.58          | 100.81         | 114.00         | -13.19      | peak |             |               |        |
| 3   | 2435.400        | 47.21          | 5.61          | 52.82          | 114.00         | -61.18      | peak |             |               |        |
| 4   | 2460.700        | 47.99          | 5.63          | 53.62          | 114.00         | -60.38      | peak |             |               |        |
| 5   | 2470.100        | 44.36          | 5.64          | 50.00          | 114.00         | -64.00      | peak |             |               |        |
| 6   | 2488.300        | 45.30          | 5.66          | 50.96          | 74.00          | -23.04      | peak |             |               |        |



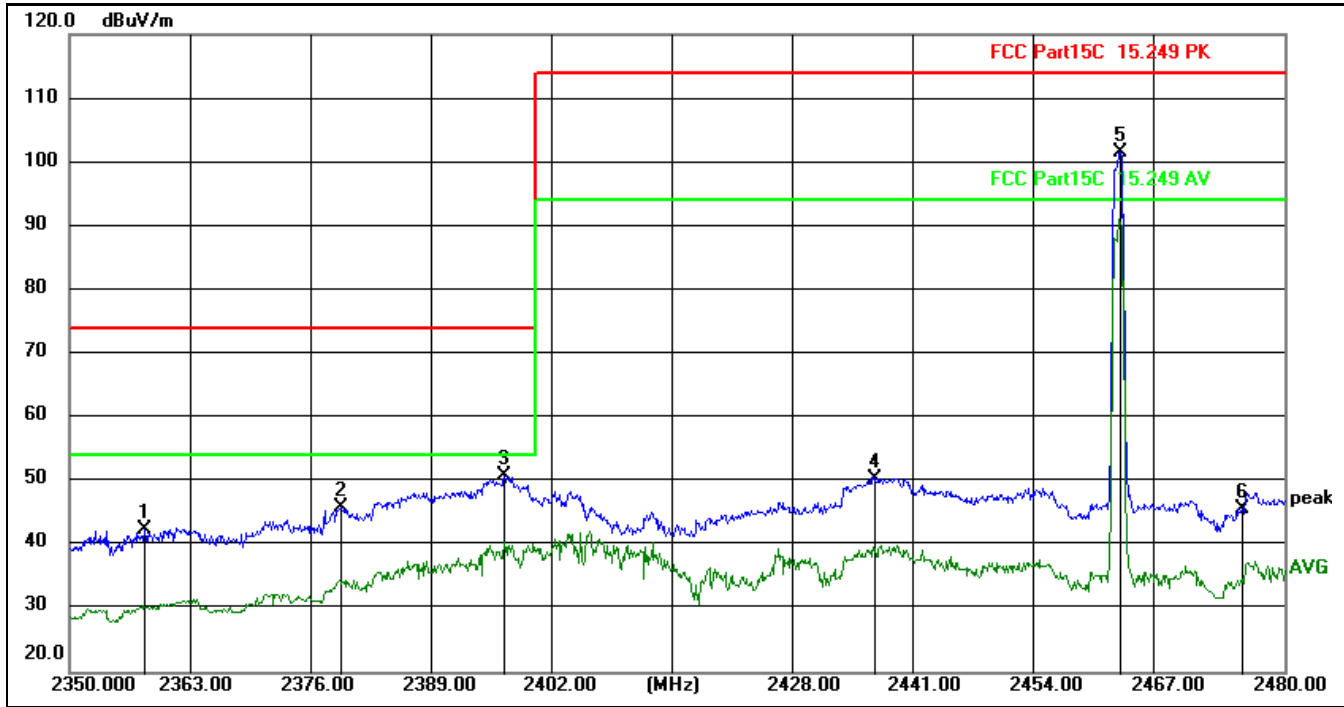
|        |                       |                     |                      |
|--------|-----------------------|---------------------|----------------------|
| Site:  | 966LAB                | Antenna::Horizontal | Temperature(C):24(C) |
| Limit: | FCC Part15C 15.249 PK |                     | Humidity(%):60%      |
| EUT:   | Olight Smart LED Bulb | Test Time:          | 2025/5/30 16:23:33   |
| M/N.:  | Aurevo(2462)          | Power Rating:       | AC 120V/60HZ         |
| Mode:  | Working               | Test Engineer:      |                      |
| Note:  |                       |                     |                      |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1 * | 2462.300        | 96.55          | 5.63          | 102.18         | 114.00         | -11.82      | peak |             |               |        |
| 2   | 2473.800        | 43.80          | 5.64          | 49.44          | 114.00         | -64.56      | peak |             |               |        |
| 3   | 2487.100        | 43.12          | 5.66          | 48.78          | 74.00          | -25.22      | peak |             |               |        |
| 4   | 2508.400        | 43.21          | 5.68          | 48.89          | 74.00          | -25.11      | peak |             |               |        |
| 5   | 2528.700        | 41.30          | 5.72          | 47.02          | 74.00          | -26.98      | peak |             |               |        |
| 6   | 2538.000        | 39.21          | 5.73          | 44.94          | 74.00          | -29.06      | peak |             |               |        |



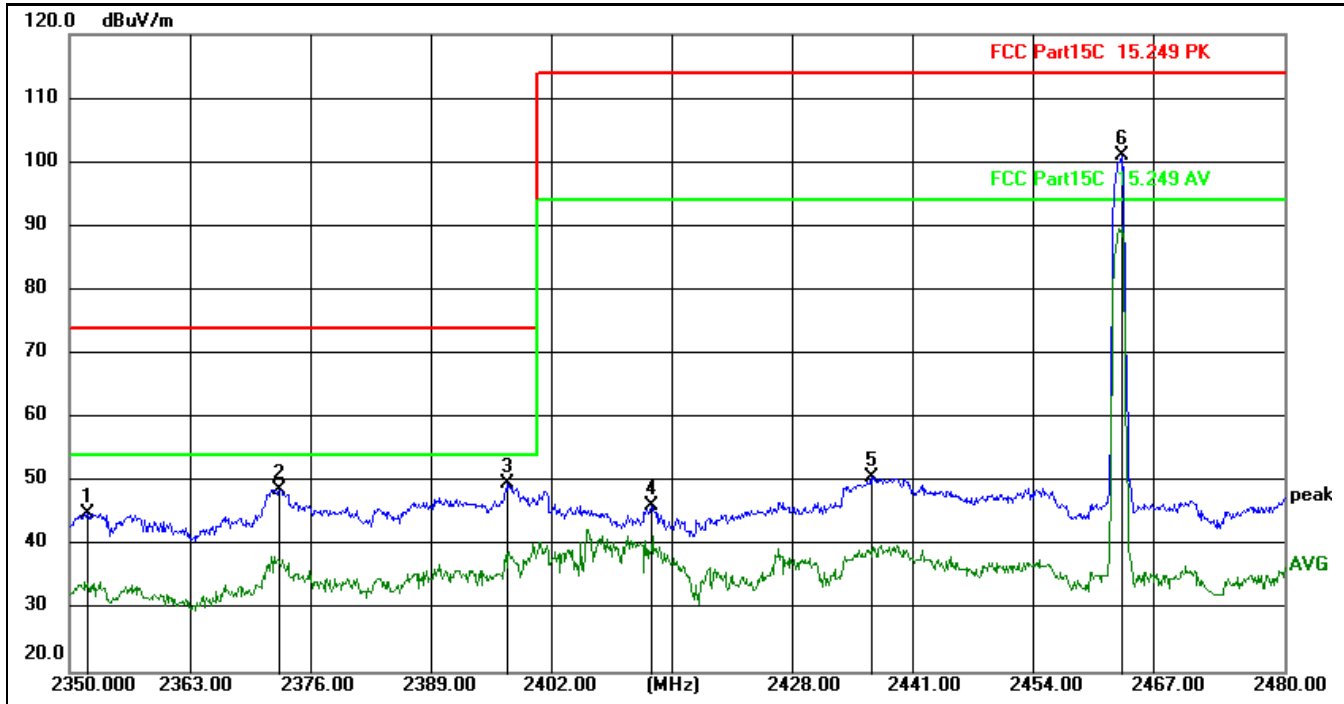
|               |                       |                       |          |                         |                    |
|---------------|-----------------------|-----------------------|----------|-------------------------|--------------------|
| <b>Site:</b>  | 966LAB                | <b>Antenna::</b>      | Vertical | <b>Temperature(C)::</b> | 24(C)              |
| <b>Limit:</b> | FCC Part15C 15.249 PK |                       |          | <b>Humidity(% ):</b>    | 60%                |
| <b>EUT:</b>   | Olight Smart LED Bulb | <b>Test Time:</b>     |          |                         | 2025/5/30 16:23:33 |
| <b>M/N.:</b>  | Aurevo(2462)          | <b>Power Rating:</b>  |          |                         | AC 120V/60HZ       |
| <b>Mode:</b>  | Working               | <b>Test Engineer:</b> |          |                         |                    |
| <b>Note:</b>  |                       |                       |          |                         |                    |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2453.000        | 41.64          | 5.62          | 47.26          | 114.00         | -66.74      | peak |             |               |        |
| 2 * | 2462.500        | 93.73          | 5.63          | 99.36          | 114.00         | -14.64      | peak |             |               |        |
| 3   | 2483.100        | 42.38          | 5.65          | 48.03          | 114.00         | -65.97      | peak |             |               |        |
| 4   | 2506.200        | 40.83          | 5.68          | 46.51          | 74.00          | -27.49      | peak |             |               |        |
| 5   | 2518.300        | 40.02          | 5.70          | 45.72          | 74.00          | -28.28      | peak |             |               |        |
| 6   | 2538.700        | 39.03          | 5.73          | 44.76          | 74.00          | -29.24      | peak |             |               |        |



Site: 966LAB Antenna::Horizontal Temperature(C):24(C)  
Limit: FCC Part15C 15.249 PK Humidity(%):60%  
EUT: Olight Smart LED Bulb Test Time: 2025/5/30 16:29:42  
M/N.: Aurevo(2462) Power Rating: AC 120V/60HZ  
Mode: Working Test Engineer:  
Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2358.060        | 36.85          | 5.53          | 42.38          | 74.00          | -31.62      | peak |             |               |        |
| 2   | 2379.120        | 40.27          | 5.55          | 45.82          | 74.00          | -28.18      | peak |             |               |        |
| 3   | 2396.540        | 45.29          | 5.57          | 50.86          | 74.00          | -23.14      | peak |             |               |        |
| 4   | 2436.190        | 44.88          | 5.61          | 50.49          | 114.00         | -63.51      | peak |             |               |        |
| 5 * | 2462.450        | 95.95          | 5.63          | 101.58         | 114.00         | -12.42      | peak |             |               |        |
| 6   | 2475.450        | 40.13          | 5.65          | 45.78          | 114.00         | -68.22      | peak |             |               |        |



|               |                              |                       |                 |                           |              |
|---------------|------------------------------|-----------------------|-----------------|---------------------------|--------------|
| <b>Site:</b>  | <b>966LAB</b>                | <b>Antenna::</b>      | <b>Vertical</b> | <b>Temperature(C):</b>    | <b>24(C)</b> |
| <b>Limit:</b> | <b>FCC Part15C 15.249 PK</b> |                       |                 | <b>Humidity(%):</b>       | <b>60%</b>   |
| <b>EUT:</b>   | <b>Olight Smart LED Bulb</b> | <b>Test Time:</b>     |                 | <b>2025/5/30 16:29:42</b> |              |
| <b>M/N.:</b>  | <b>Aurevo(2462)</b>          | <b>Power Rating:</b>  |                 | <b>AC 120V/60HZ</b>       |              |
| <b>Mode:</b>  | <b>Working</b>               | <b>Test Engineer:</b> |                 |                           |              |
| <b>Note:</b>  |                              |                       |                 |                           |              |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 2351.950        | 39.40          | 5.52          | 44.92          | 74.00          | -29.08      | peak |             |               |        |
| 2   | 2372.490        | 43.21          | 5.54          | 48.75          | 74.00          | -25.25      | peak |             |               |        |
| 3   | 2396.930        | 43.96          | 5.57          | 49.53          | 74.00          | -24.47      | peak |             |               |        |
| 4   | 2412.270        | 40.66          | 5.58          | 46.24          | 114.00         | -67.76      | peak |             |               |        |
| 5   | 2435.800        | 45.00          | 5.61          | 50.61          | 114.00         | -63.39      | peak |             |               |        |
| 6 * | 2462.580        | 95.34          | 5.63          | 100.97         | 114.00         | -13.03      | peak |             |               |        |

**REMARKS:**

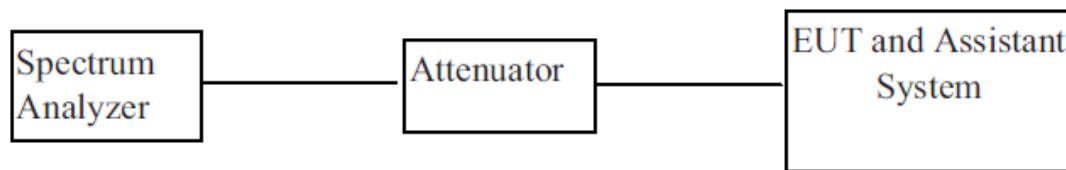
1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
- 4.-- Mean the PK detector measured value is below average limit.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.
6. Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded in report.

## 5. Output Power

### 5.1. Test equipment

| Item | Equipment           | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|---------------------|--------------|-----------|------------|------------|---------------|
| 1    | MXA Signal Analyzer | KEYSIGHT     | N9020A    | MY54510476 | 2025-05-08 | 1 Year        |

### 5.2. BLOCK DIAGRAM OF TEST SETUP



### 5.3. Limit

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt (30dBm).

### 5.4. Test Procedure

For output power test:

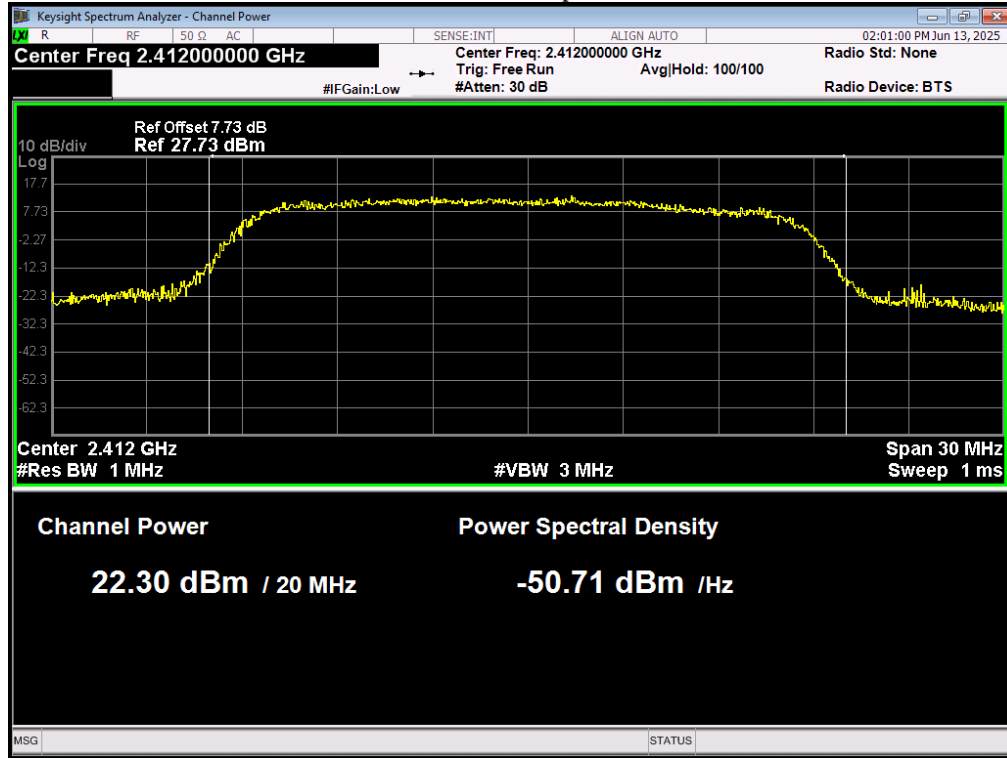
1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 558074v03r04 for compliance to FCC 47CFR 15.247 requirements.

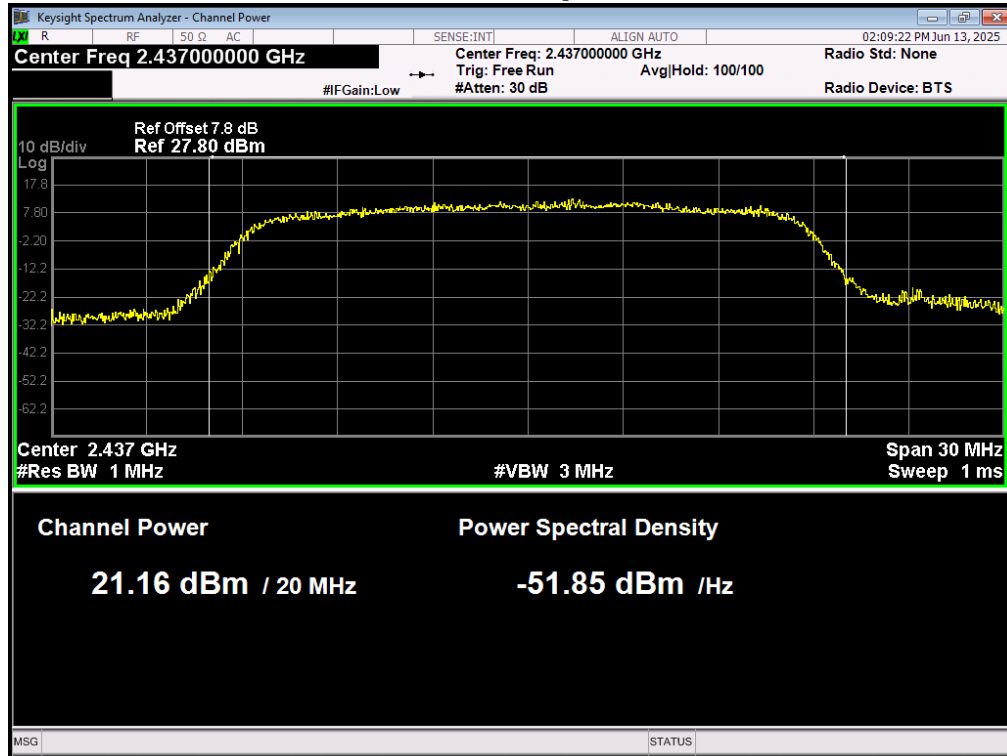
## 5.5. Test result

| Condition | Mode          | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|---------------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | 802.11b 1Mbps | 2412            | Ant 1   | 22.304                | 0                | 22.304            | 30          | Pass    |
| NVNT      | 802.11b 1Mbps | 2437            | Ant 1   | 21.158                | 0                | 21.158            | 30          | Pass    |
| NVNT      | 802.11b 1Mbps | 2462            | Ant 1   | 20.145                | 0                | 20.145            | 30          | Pass    |

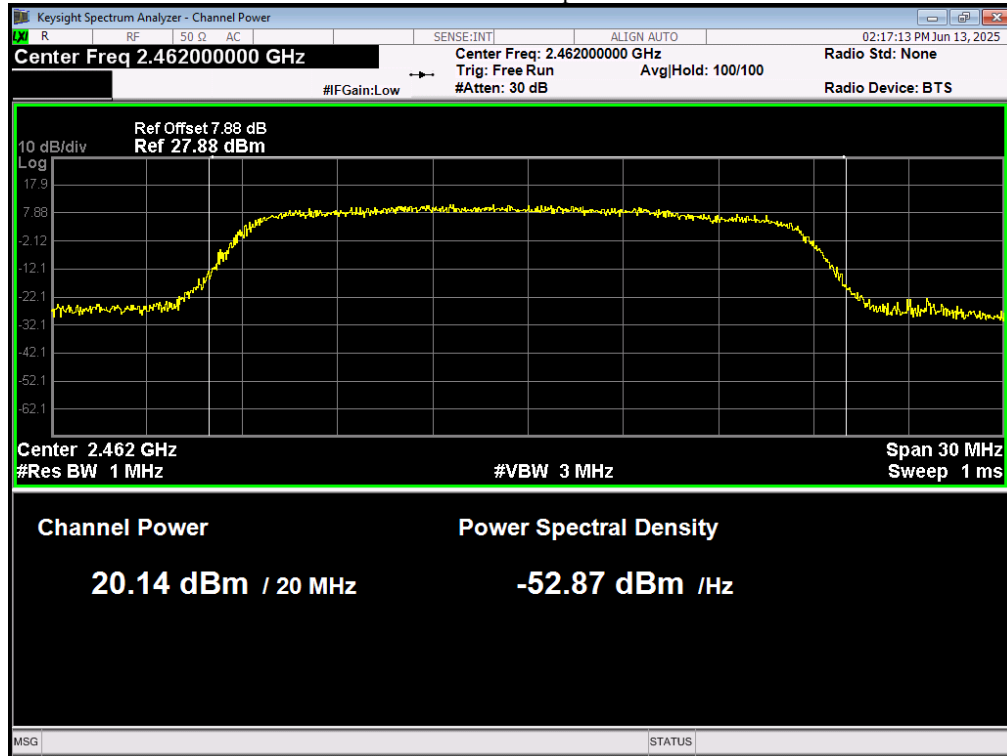
Power NVNT 802.11b 1Mbps 2412MHz Ant1



Power NVNT 802.11b 1Mbps 2437MHz Ant1



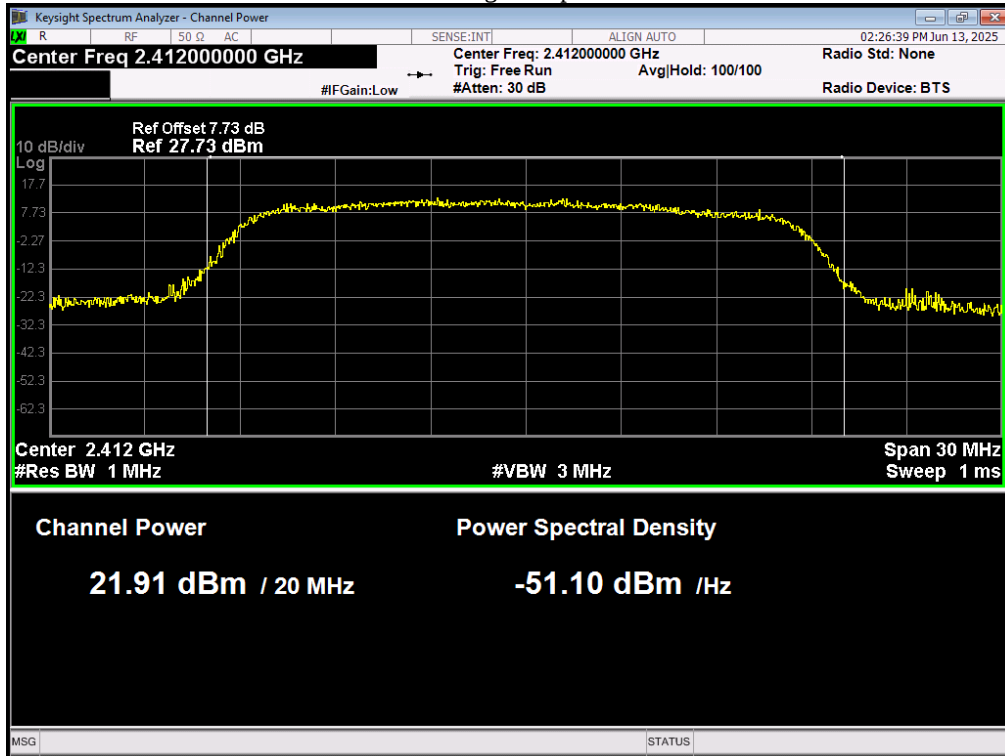
Power NVNT 802.11b 1Mbps 2462MHz Ant1



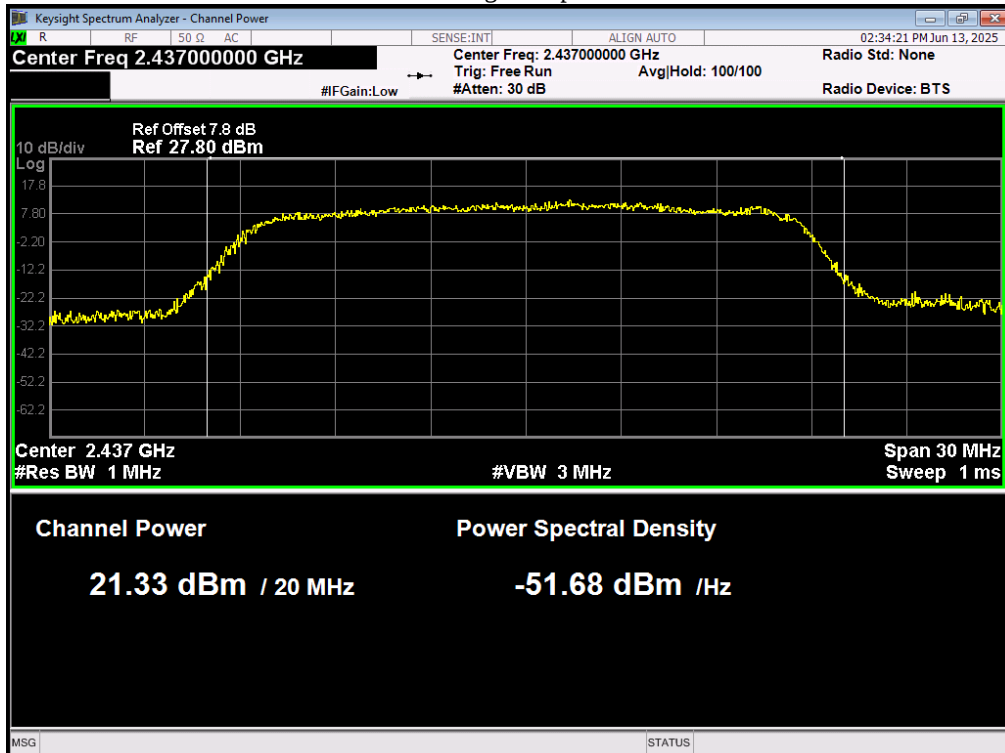
| Condition | Mode          | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|---------------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | 802.11g 6Mbps | 2412            | Ant 1   | 21.907                | 0                | 21.907            | 30          | Pass    |
| NVNT      | 802.11g 6Mbps | 2437            | Ant 1   | 21.331                | 0                | 21.331            | 30          | Pass    |

|      |                  |      |       |        |   |        |    |      |
|------|------------------|------|-------|--------|---|--------|----|------|
| NVNT | 802.11g<br>6Mbps | 2462 | Ant 1 | 20.338 | 0 | 20.338 | 30 | Pass |
|------|------------------|------|-------|--------|---|--------|----|------|

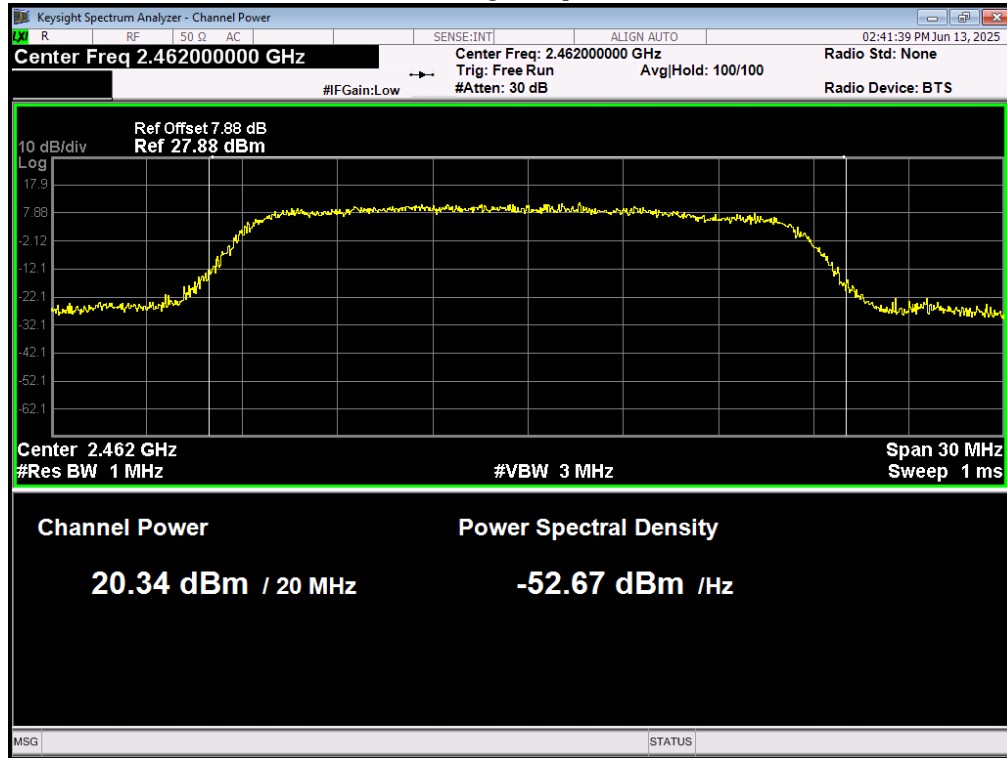
Power NVNT 802.11g 6Mbps 2412MHz Ant1



Power NVNT 802.11g 6Mbps 2437MHz Ant1

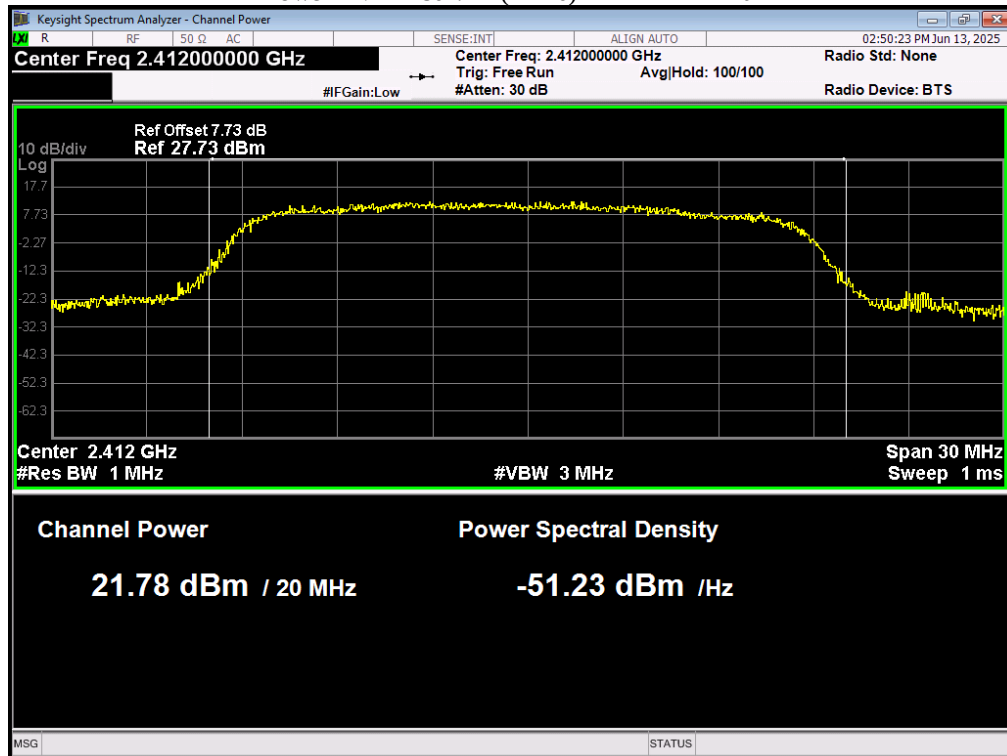


Power NVNT 802.11g 6Mbps 2462MHz Ant1

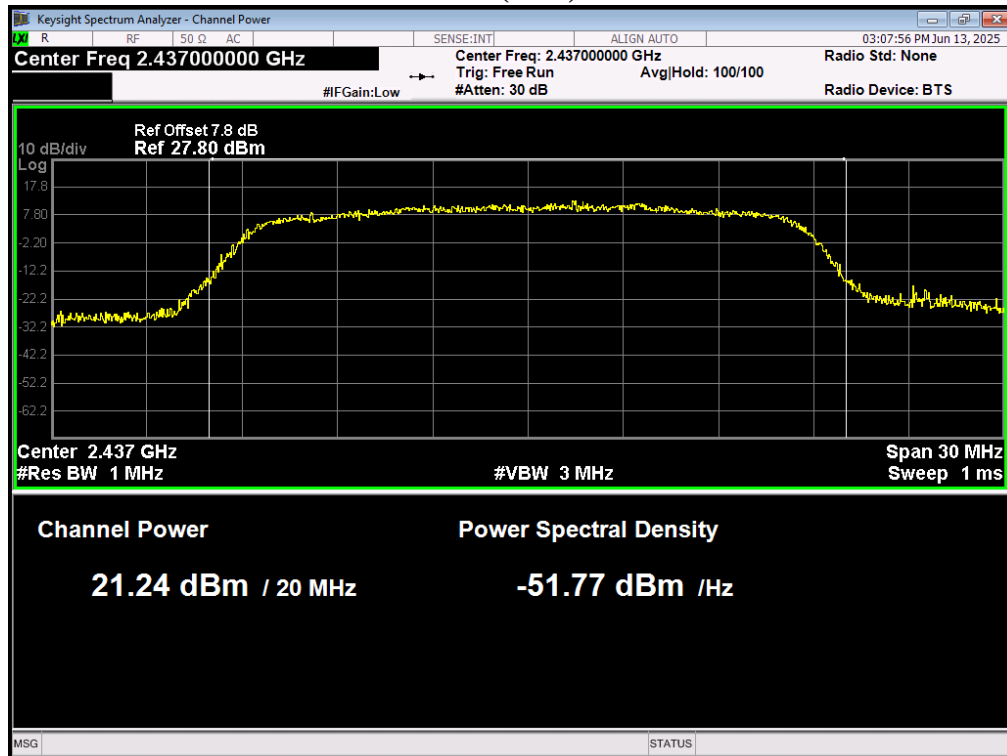


| Condition | Mode          | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|---------------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | 802.11n(HT20) | 2412            | Ant 1   | 21.782                | 0                | 21.782            | 30          | Pass    |
| NVNT      | 802.11n(HT20) | 2437            | Ant 1   | 21.243                | 0                | 21.243            | 30          | Pass    |
| NVNT      | 802.11n(HT20) | 2462            | Ant 1   | 20.678                | 0                | 20.678            | 30          | Pass    |

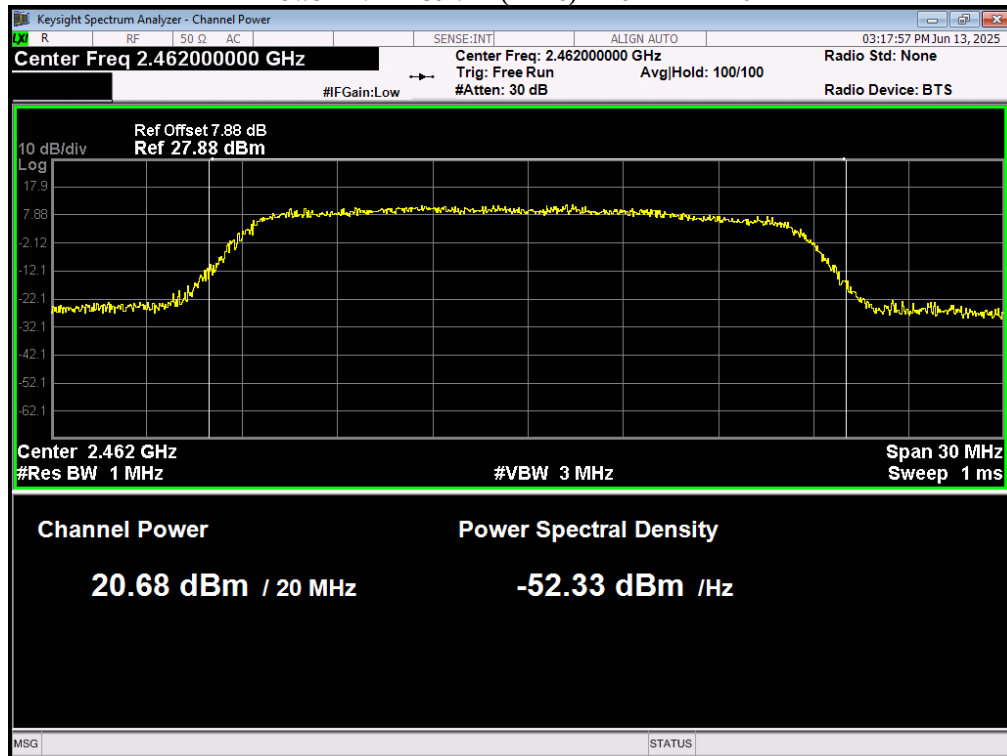
Power NVNT 802.11n(HT20) 2412MHz Ant1



Power NVNT 802.11n(HT20) 2437MHz Ant1



Power NVNT 802.11n(HT20) 2462MHz Ant1

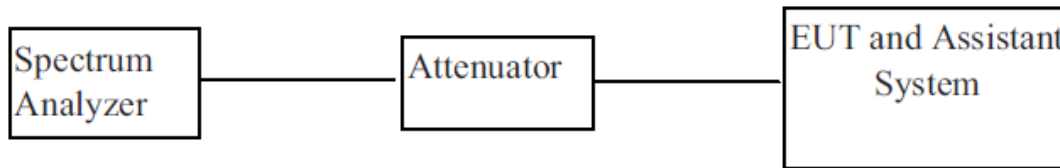


## 6. -6dB Bandwidth

### 6.1. Test equipment

| Item | Equipment           | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|---------------------|--------------|-----------|------------|------------|---------------|
| 1    | MXA Signal Analyzer | KEYSIGHT     | N9020A    | MY54510476 | 2024/05/14 | 1 Year        |

### 6.2. BLOCK DIAGRAM OF TEST SETUP



### 6.3. Limit

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 6.4. Test Procedure

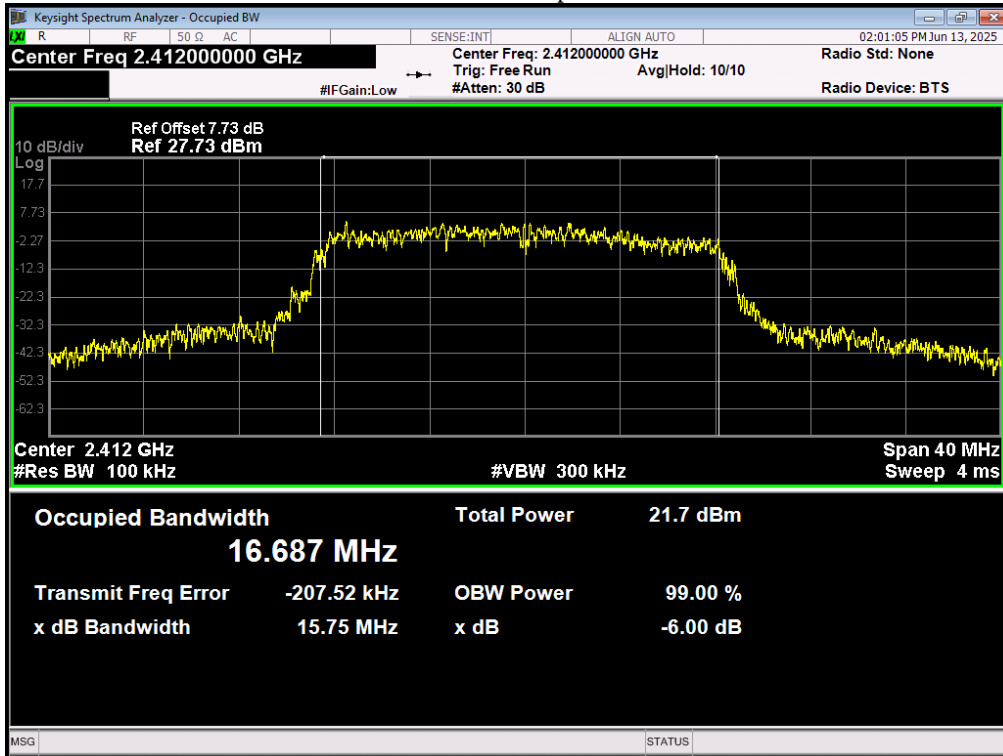
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

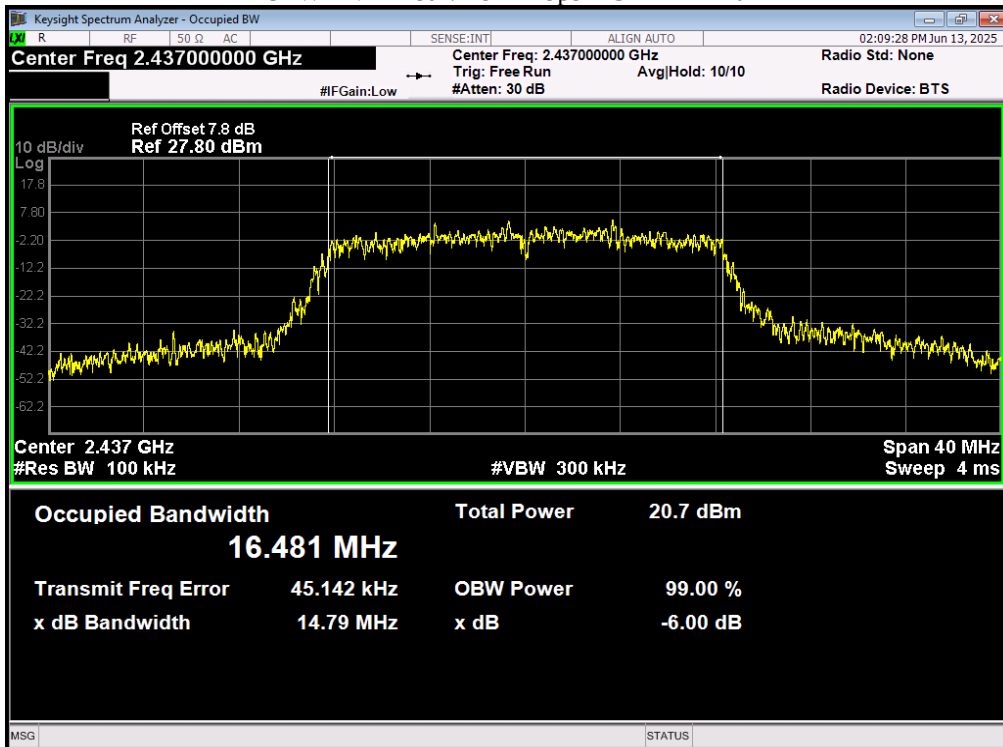
## 6.5. Test result

| Condition | Mode          | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------|---------------|-----------------|---------|-----------------------|------------------|-------------------|-------------|
| NVNT      | 802.11b 1Mbps | 2412            | Ant 1   | 16.6871               | 15.7467          | 0.5               | Pass        |
| NVNT      | 802.11b 1Mbps | 2437            | Ant 1   | 16.4807               | 14.7944          | 0.5               | Pass        |
| NVNT      | 802.11b 1Mbps | 2462            | Ant 1   | 16.7459               | 16.2355          | 0.5               | Pass        |

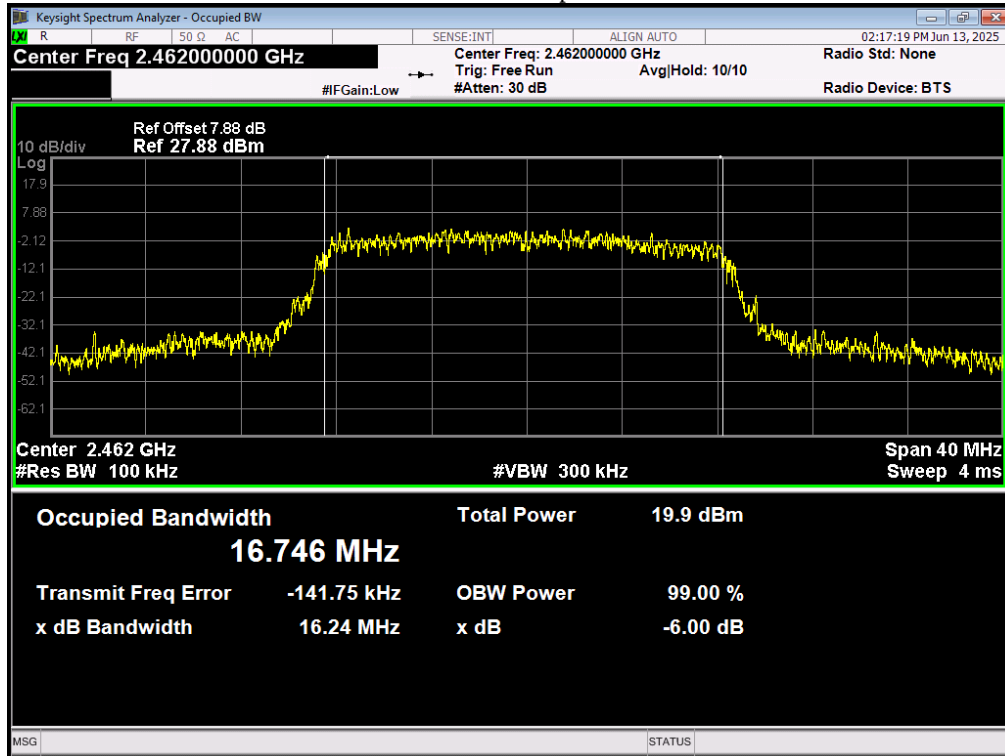
OBW NVNT 802.11b 1Mbps 2412MHz Ant1



OBW NVNT 802.11b 1Mbps 2437MHz Ant1

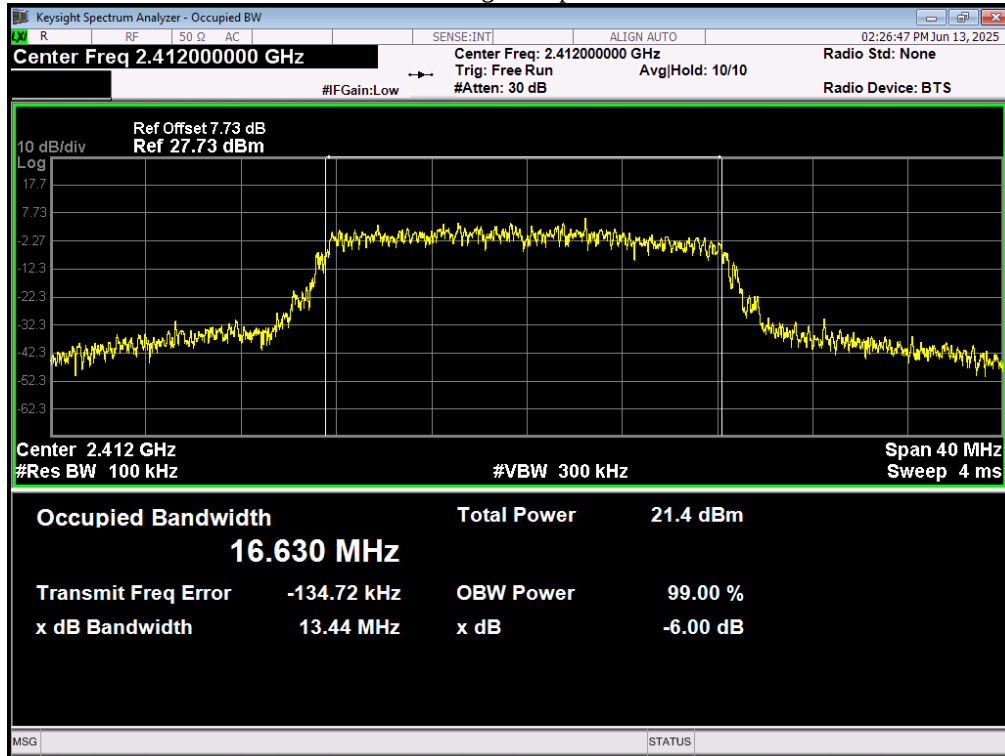


OBW NVNT 802.11b 1Mbps 2462MHz Ant1

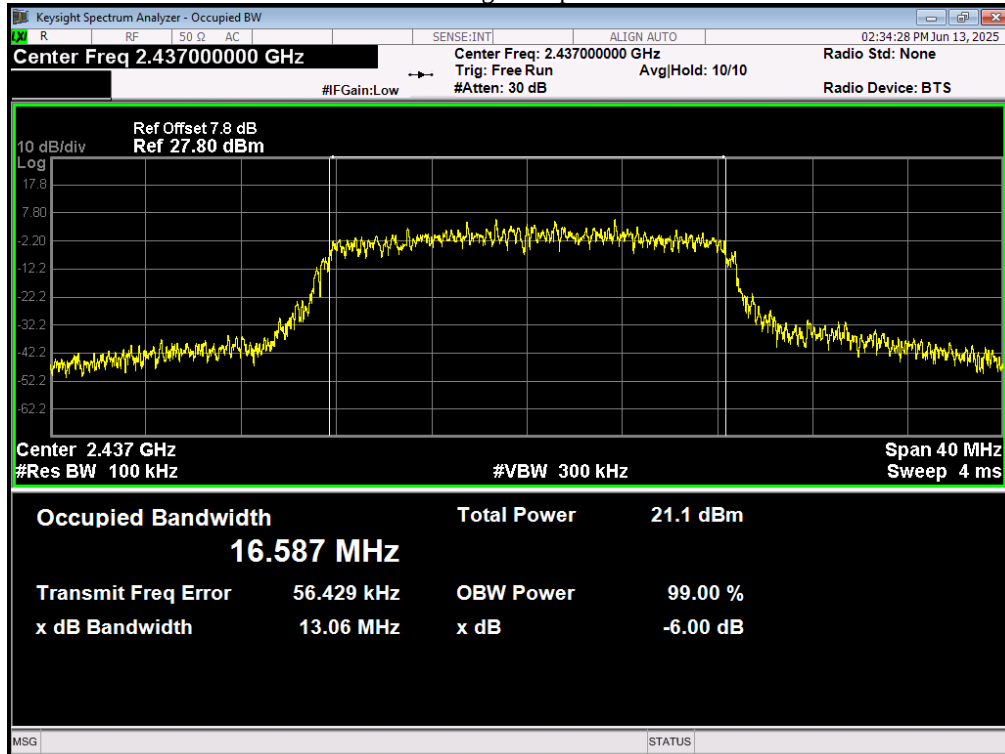


| Condition | Mode             | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------|------------------|-----------------|---------|-----------------------|------------------|-------------------|-------------|
| NVNT      | 802.11g<br>6Mbps | 2412            | Ant 1   | 16.6301               | 13.4424          | 0.5               | Pass        |
| NVNT      | 802.11g<br>6Mbps | 2437            | Ant 1   | 16.5866               | 13.0594          | 0.5               | Pass        |
| NVNT      | 802.11g<br>6Mbps | 2462            | Ant 1   | 16.7432               | 15.7309          | 0.5               | Pass        |

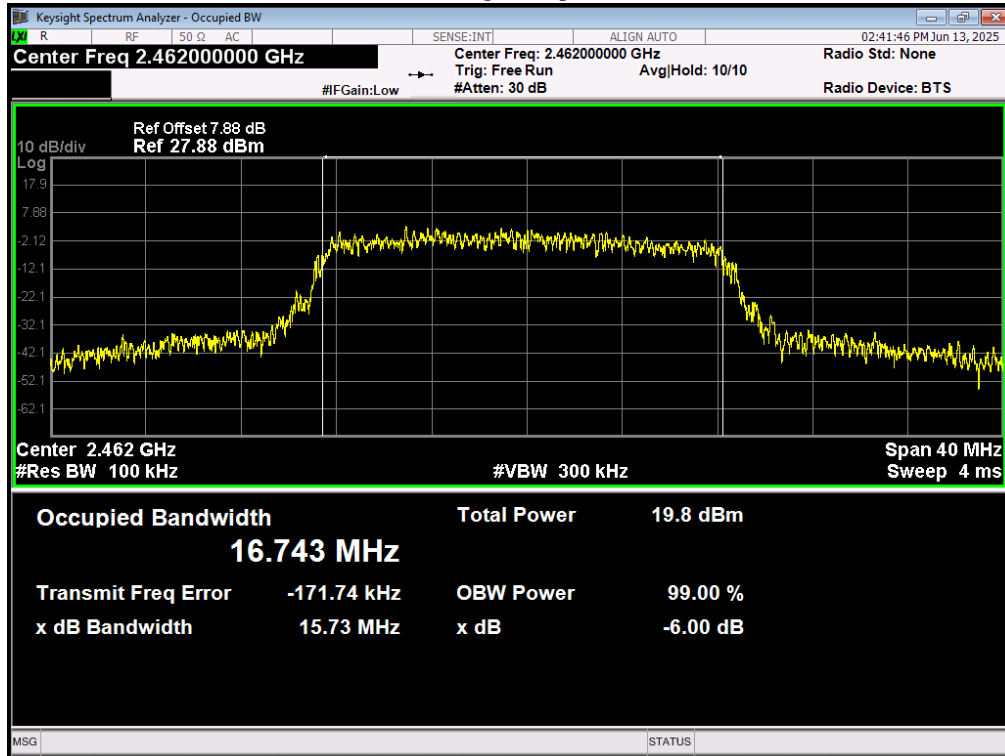
OBW NVNT 802.11g 6Mbps 2412MHz Ant1



OBW NVNT 802.11g 6Mbps 2437MHz Ant1

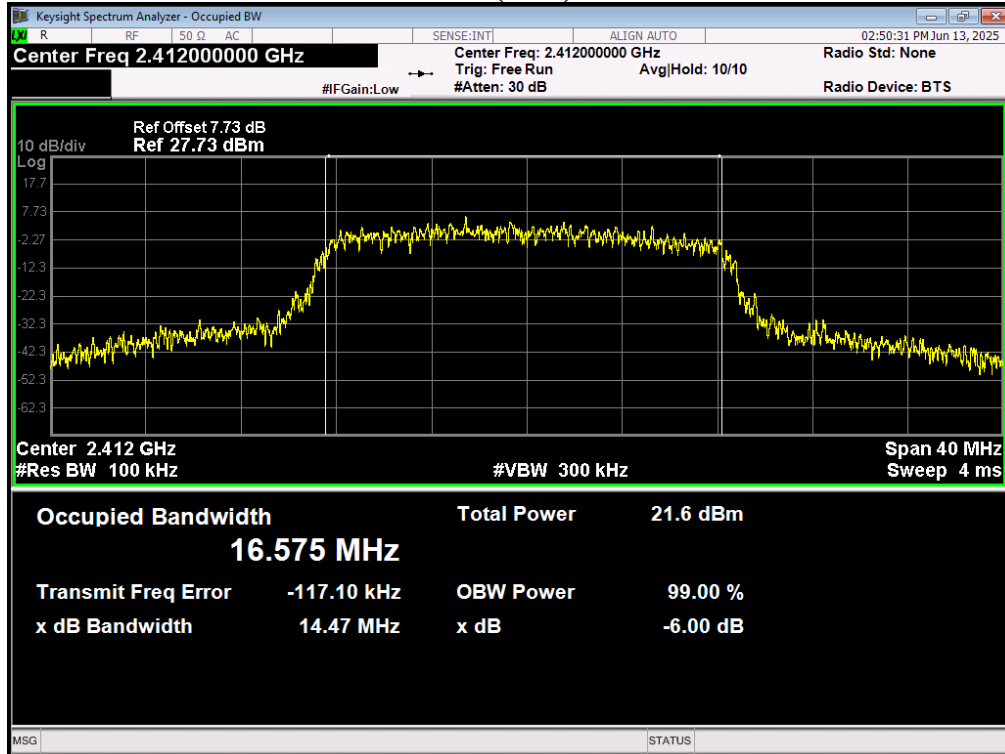


OBW NVNT 802.11g 6Mbps 2462MHz Ant1

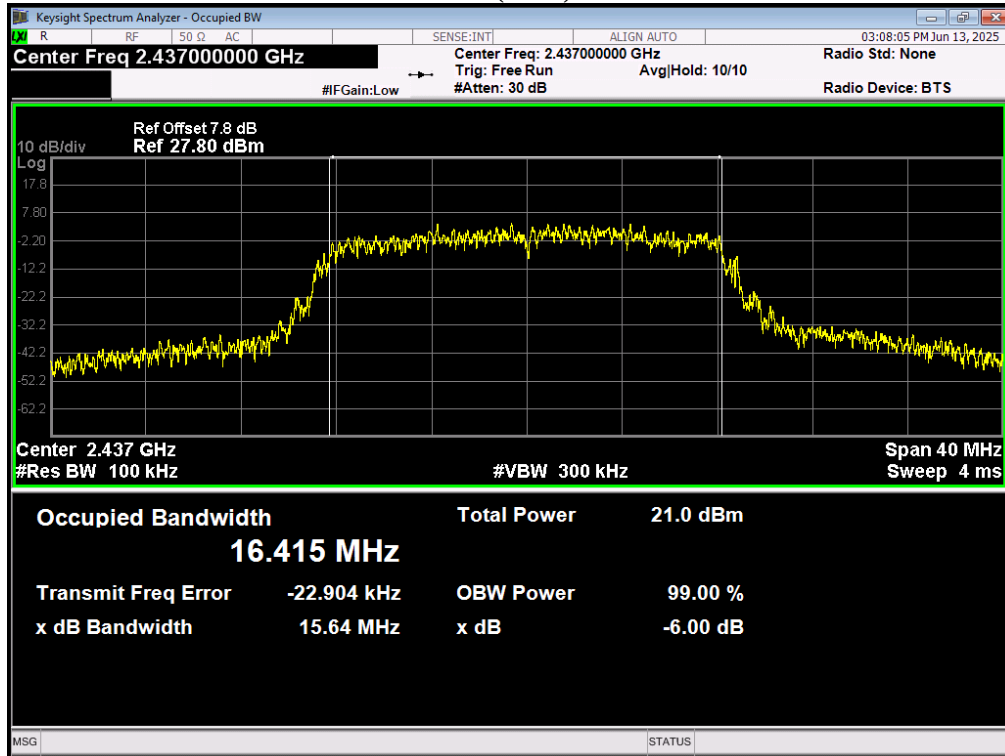


| Condition | Mode          | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------|---------------|-----------------|---------|-----------------------|------------------|-------------------|-------------|
| NVNT      | 802.11n(HT20) | 2412            | Ant 1   | 16.5749               | 14.4658          | 0.5               | Pass        |
| NVNT      | 802.11n(HT20) | 2437            | Ant 1   | 16.4147               | 15.6397          | 0.5               | Pass        |
| NVNT      | 802.11n(HT20) | 2462            | Ant 1   | 16.7282               | 14.3349          | 0.5               | Pass        |

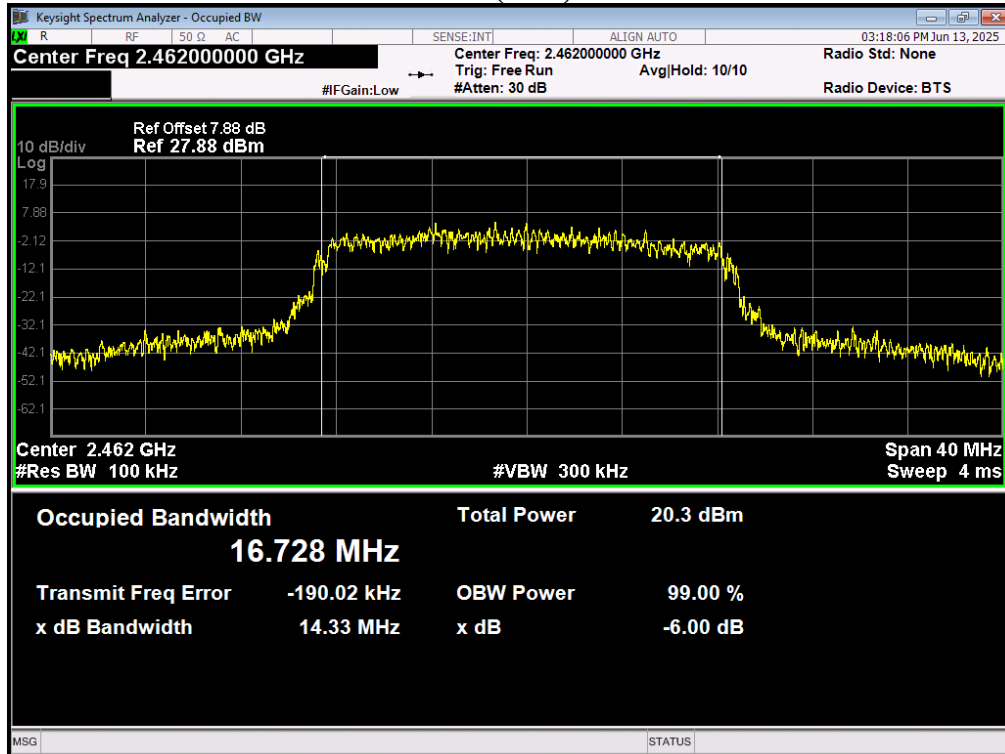
OBW NVNT 802.11n(HT20) 2412MHz Ant1



OBW NVNT 802.11n(HT20) 2437MHz Ant1



OBW NVNT 802.11n(HT20) 2462MHz Ant1

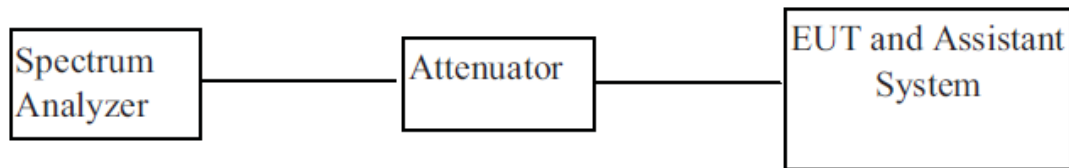


## 7. Band Edges Measurement

### 7.1. Test equipment

| Item | Equipment           | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|---------------------|--------------|-----------|------------|------------|---------------|
| 1    | MXA Signal Analyzer | KEYSIGHT     | N9020A    | MY54510476 | 2025-05-08 | 1 Year        |

### 7.2. BLOCK DIAGRAM OF TEST SETUP



### 7.3. Limit

Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 7.4. Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable.

Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.

Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.

The band edges was measured and recorded.

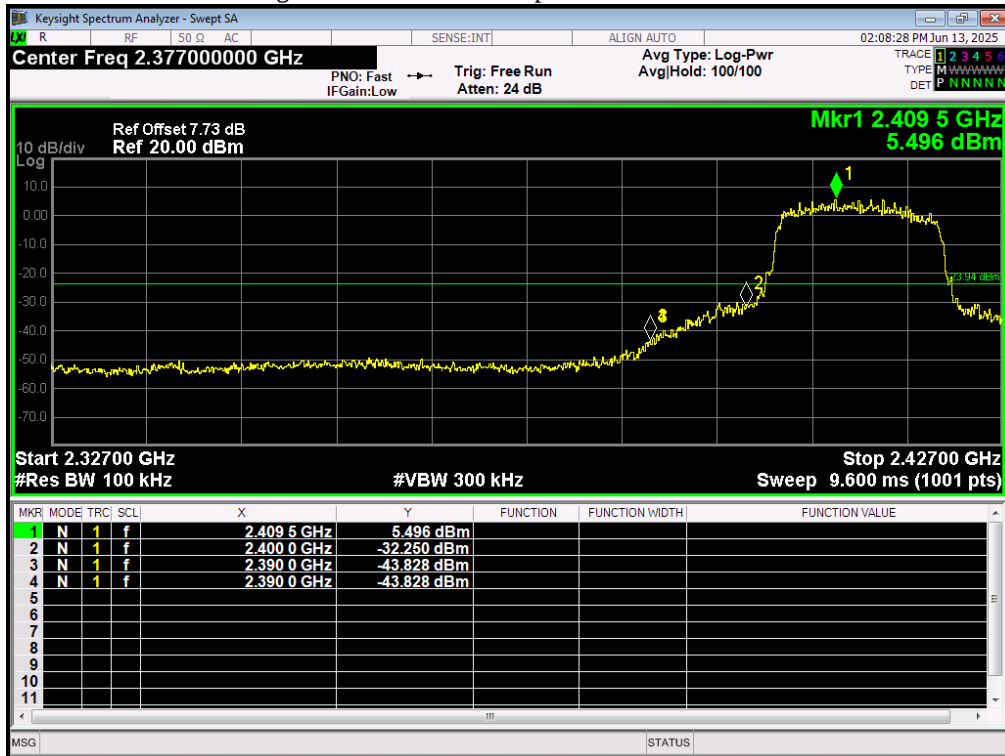
## 7.5. Test result

| Condition | Mode          | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 802.11b 1Mbps | 2412            | Ant 1   | -49.885         | -30         | Pass    |
| NVNT      | 802.11b 1Mbps | 2462            | Ant 1   | -47.255         | -30         | Pass    |

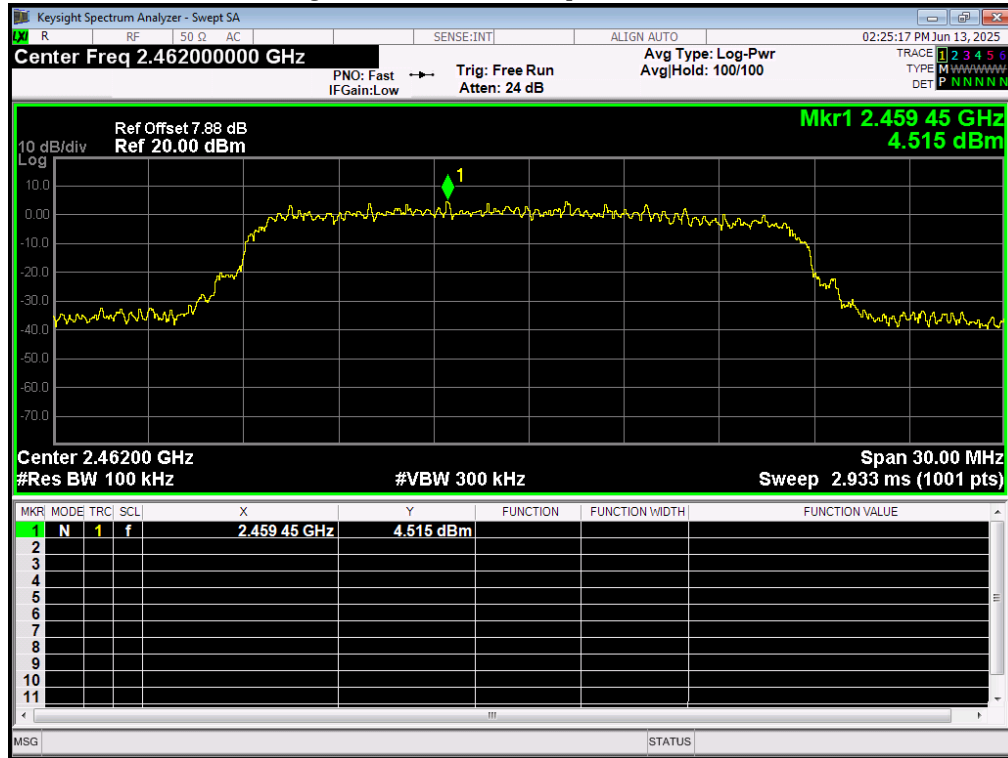
Band Edge NVNT 802.11b 1Mbps 2412MHz Ant1 Ref



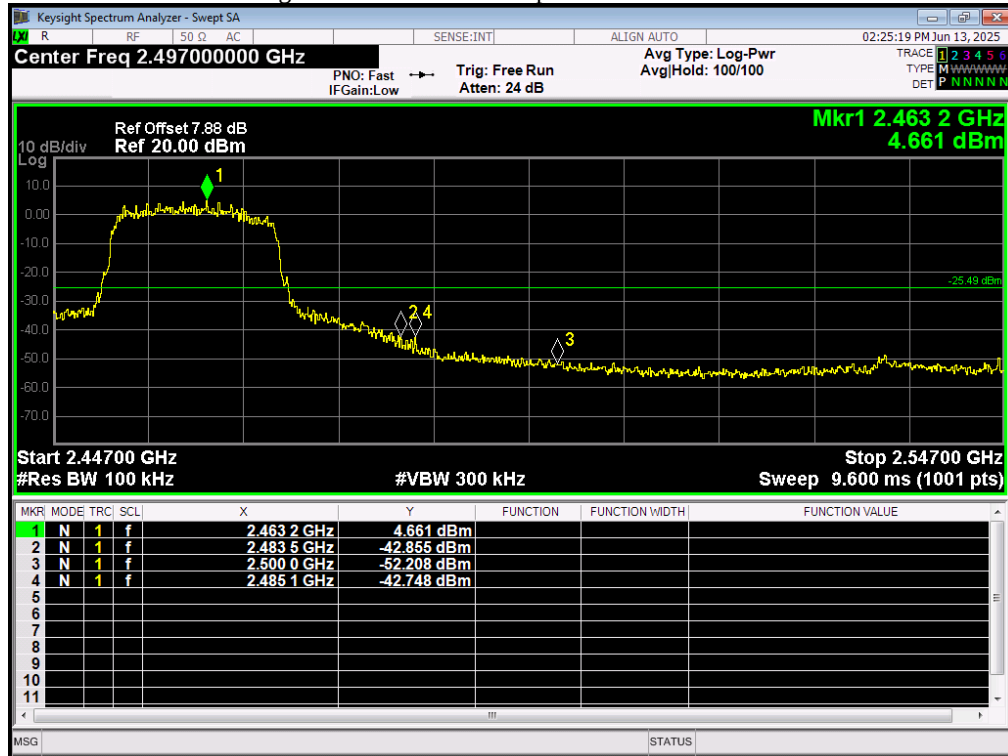
Band Edge NVNT 802.11b 1Mbps 2412MHz Ant1 Emission



Band Edge NVNT 802.11b 1Mbps 2462MHz Ant1 Ref

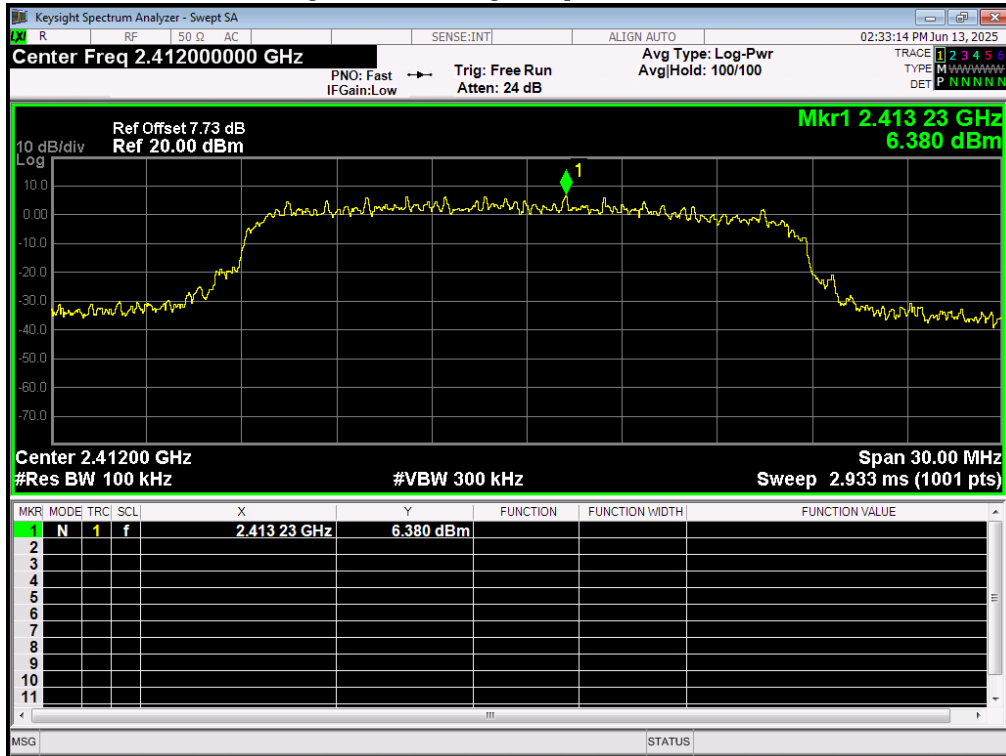


Band Edge NVNT 802.11b 1Mbps 2462MHz Ant1 Emission

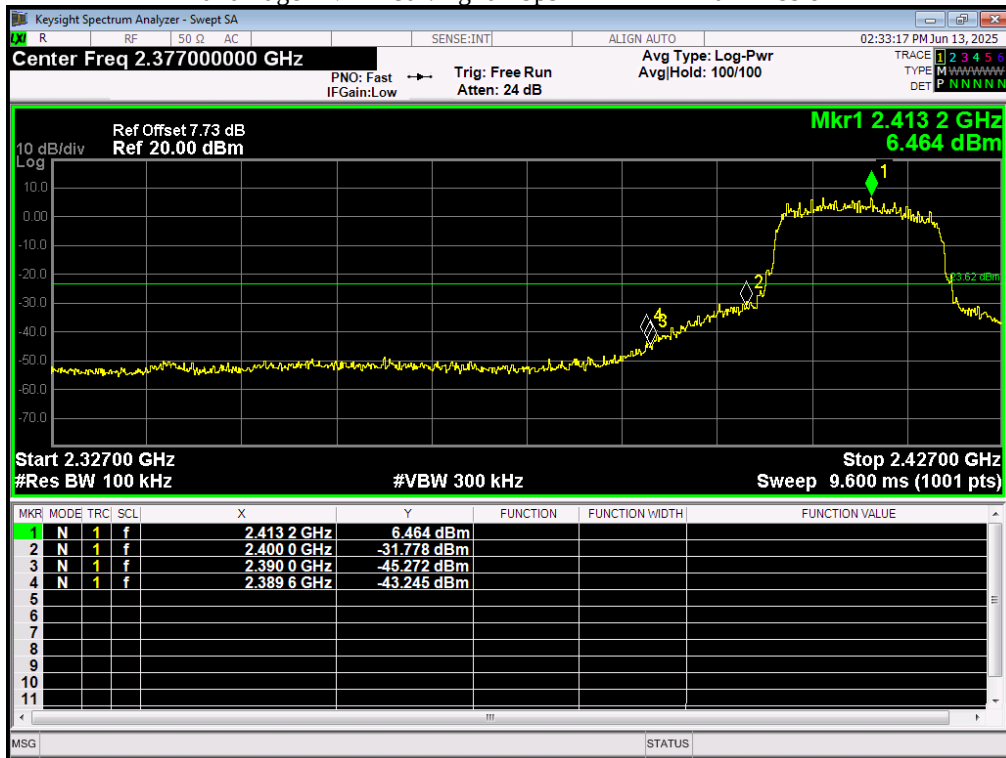


| Condition | Mode             | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------------------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 802.11g<br>6Mbps | 2412            | Ant 1   | -49.62          | -30         | Pass    |
| NVNT      | 802.11g<br>6Mbps | 2462            | Ant 1   | -47.612         | -30         | Pass    |

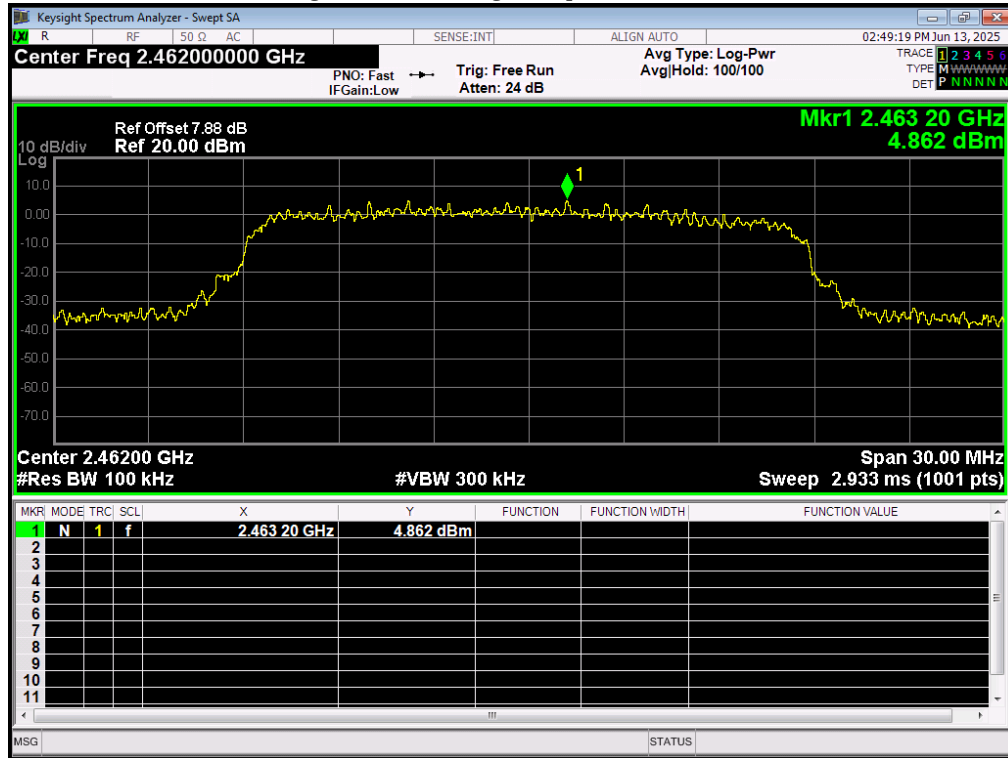
Band Edge NVNT 802.11g 6Mbps 2412MHz Ant1 Ref



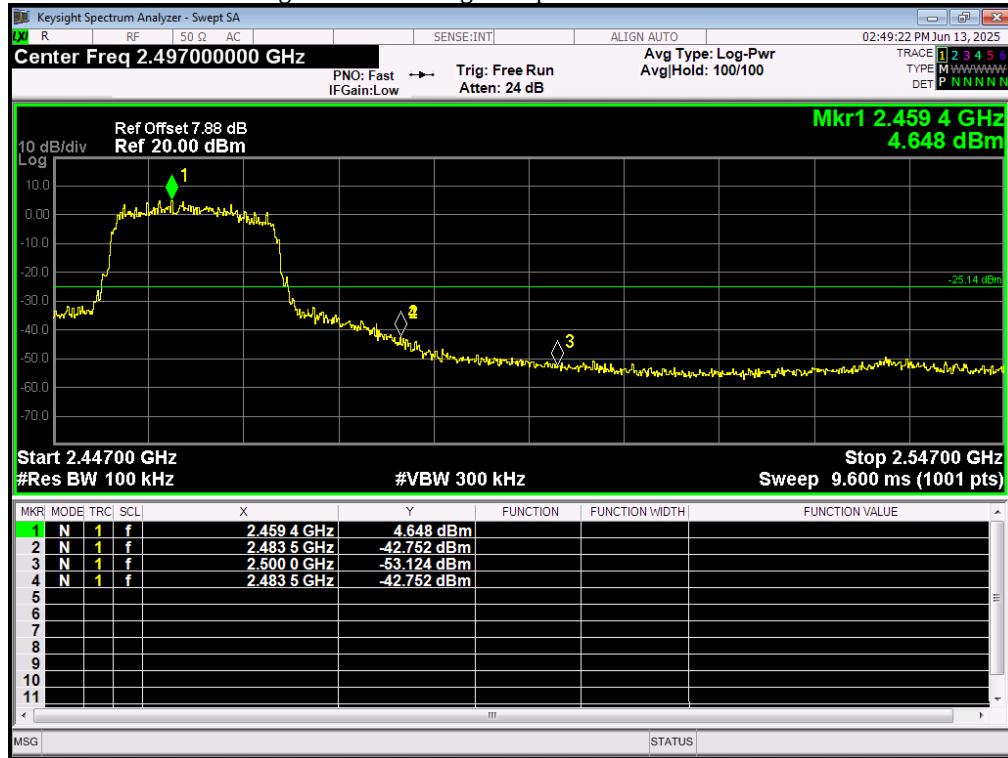
Band Edge NVNT 802.11g 6Mbps 2412MHz Ant1 Emission



Band Edge NVNT 802.11g 6Mbps 2462MHz Ant1 Ref

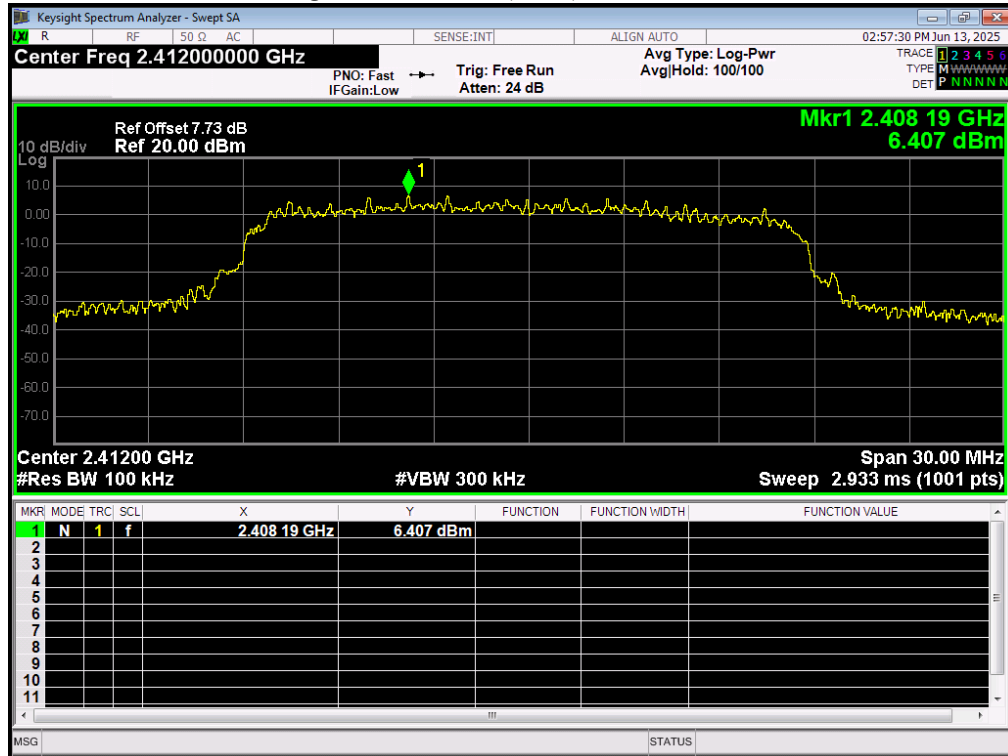


Band Edge NVNT 802.11g 6Mbps 2462MHz Ant1 Emission

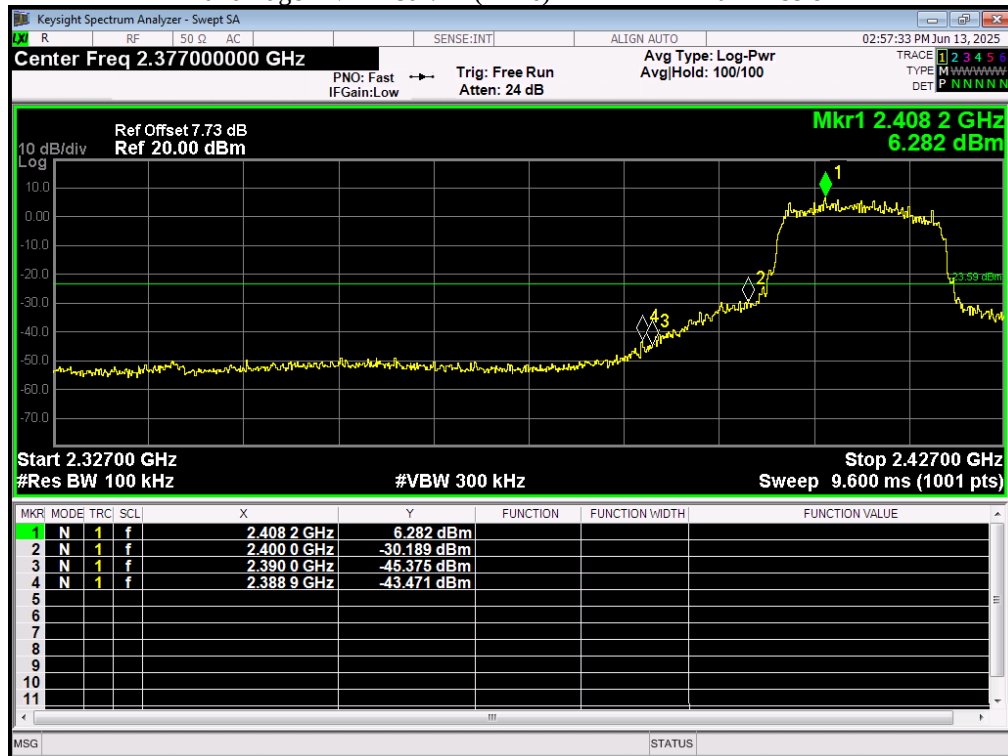


| Condition | Mode          | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 802.11n(HT20) | 2412            | Ant 1   | -49.877         | -30         | Pass    |
| NVNT      | 802.11n(HT20) | 2462            | Ant 1   | -47.982         | -30         | Pass    |

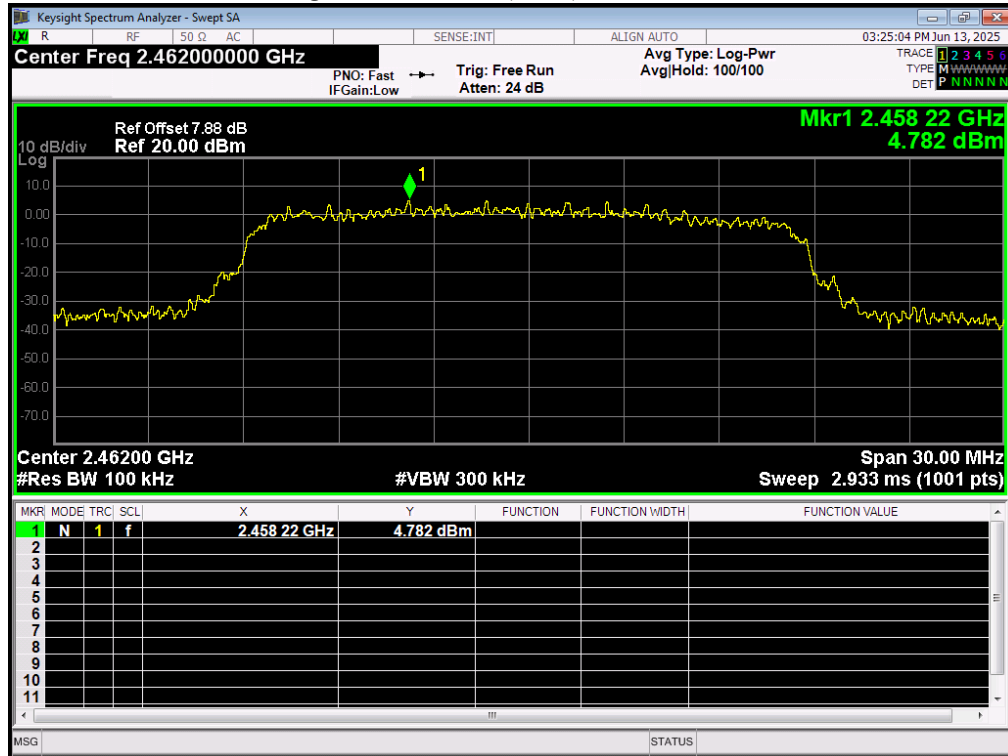
Band Edge NVNT 802.11n(HT20) 2412MHz Ant1 Ref



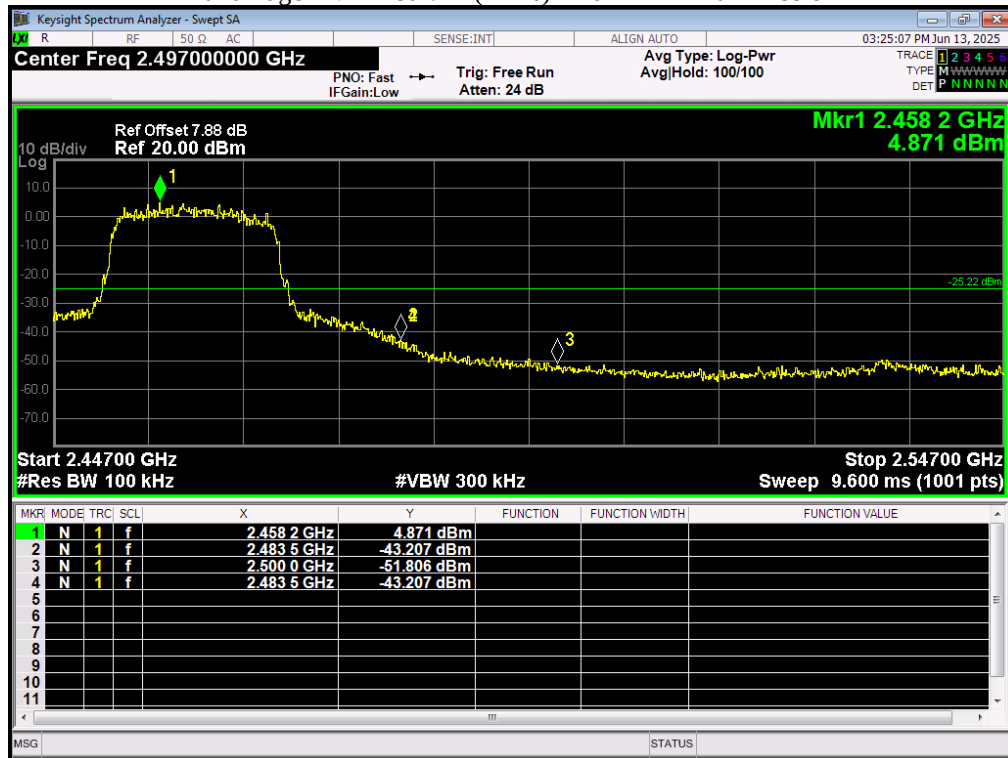
Band Edge NVNT 802.11n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT 802.11n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT 802.11n(HT20) 2462MHz Ant1 Emission

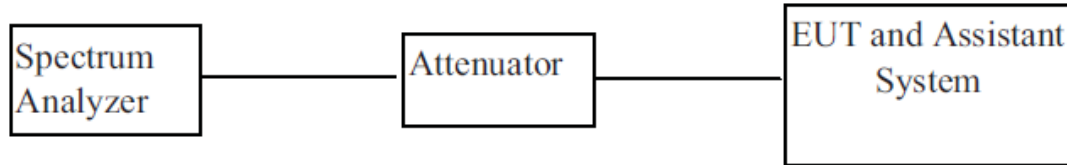


## 8. Conducted Spurious Emission

### 8.1. Test equipment

| Item | Equipment           | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|---------------------|--------------|-----------|------------|------------|---------------|
| 1    | MXA Signal Analyzer | KEYSIGHT     | N9020A    | MY54510476 | 2025-05-08 | 1 Year        |

### 8.2. BLOCK DIAGRAM OF TEST SETUP



### 8.3. Limit

In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.

In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)

### 8.4. Test Procedure

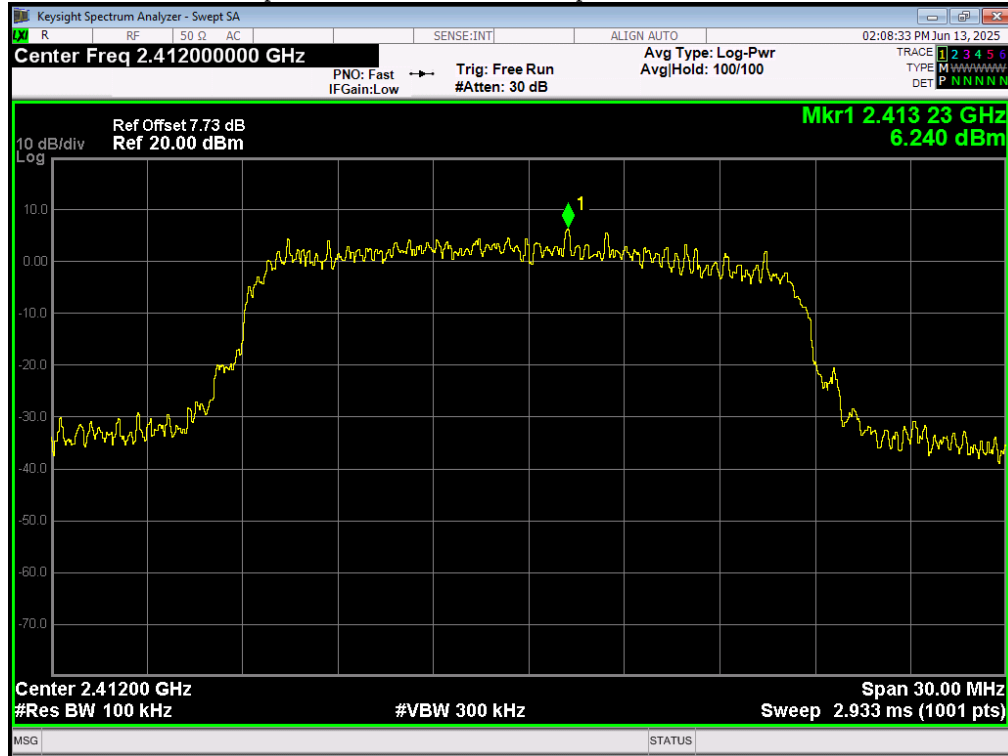
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

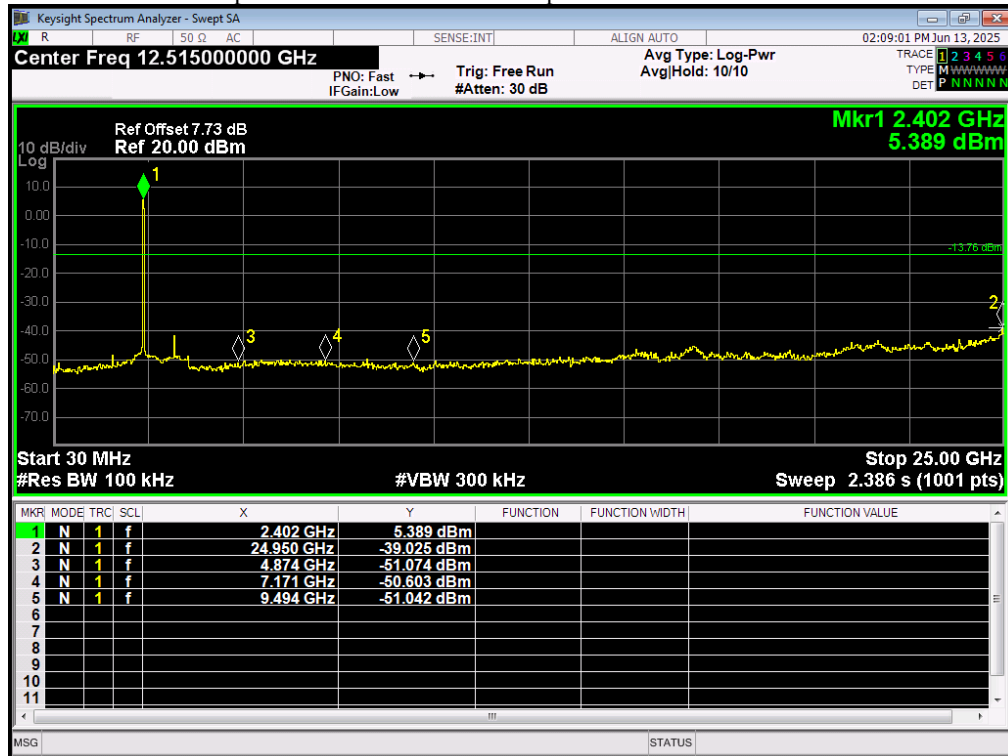
## 8.5. Test result

| Condition | Mode          | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 802.11b 1Mbps | 2412            | Ant 1   | -45.26          | -20         | Pass    |
| NVNT      | 802.11b 1Mbps | 2437            | Ant 1   | -45.483         | -20         | Pass    |
| NVNT      | 802.11b 1Mbps | 2462            | Ant 1   | -44.102         | -20         | Pass    |

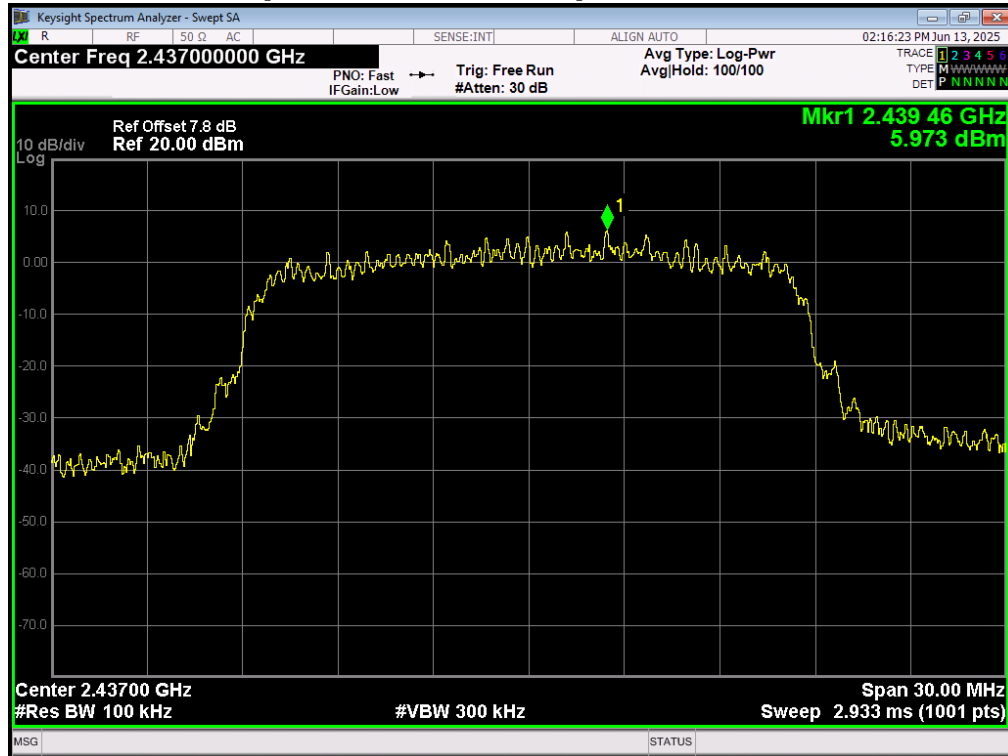
Tx Spurious NVNT 802.11b 1Mbps 2412MHz Ant1 Ref



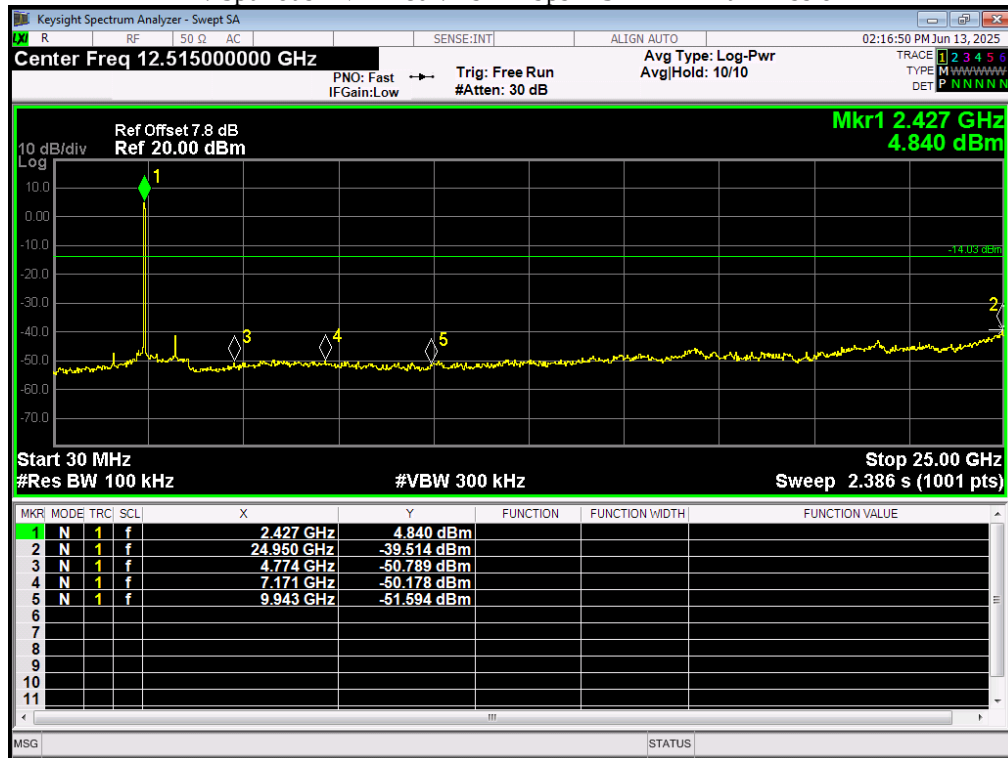
Tx Spurious NVNT 802.11b 1Mbps 2412MHz Ant1 Emission



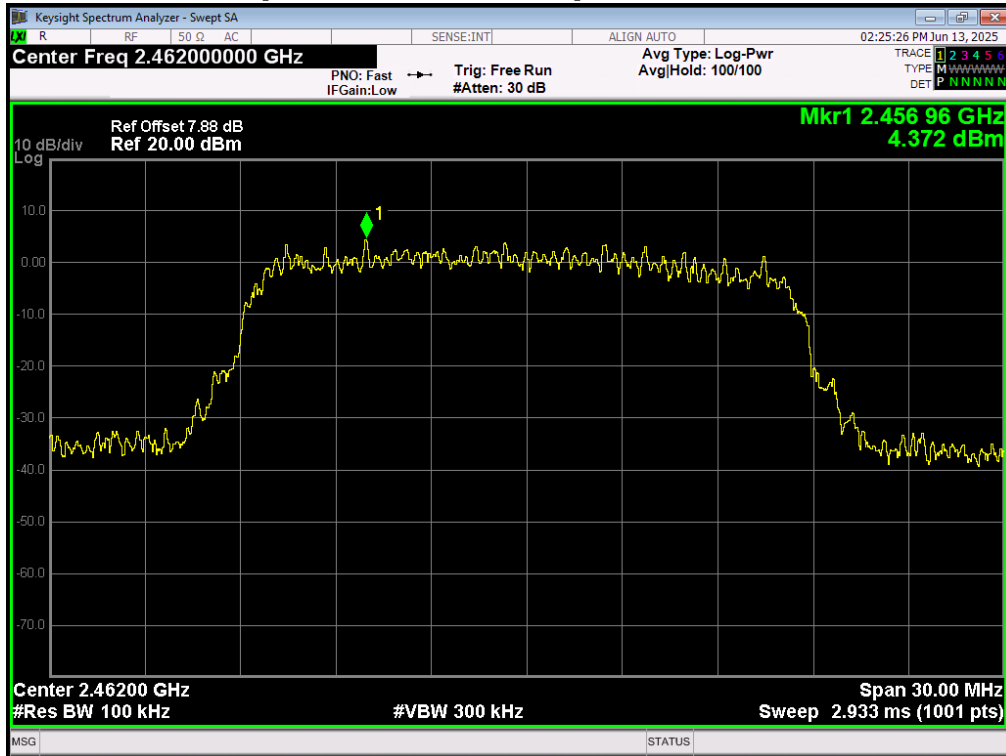
Tx Spurious NVNT 802.11b 1Mbps 2437MHz Ant1 Ref



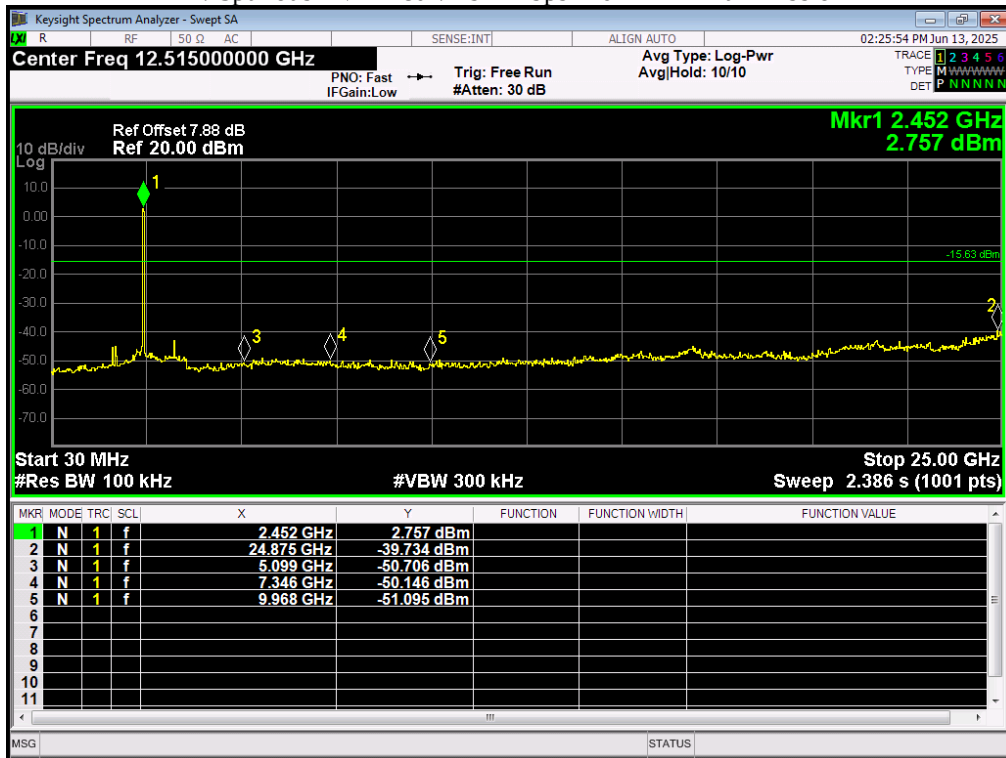
Tx Spurious NVNT 802.11b 1Mbps 2437MHz Ant1 Emission



Tx. Spurious NVNT 802.11b 1Mbps 2462MHz Ant1 Ref

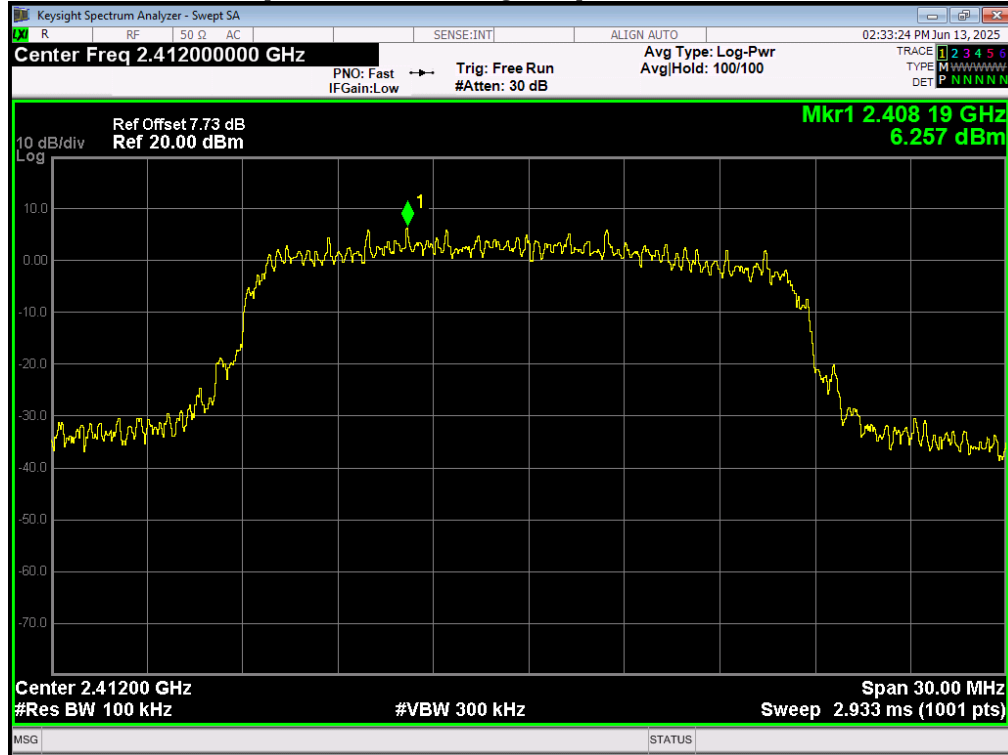


Tx. Spurious NVNT 802.11b 1Mbps 2462MHz Ant1 Emission

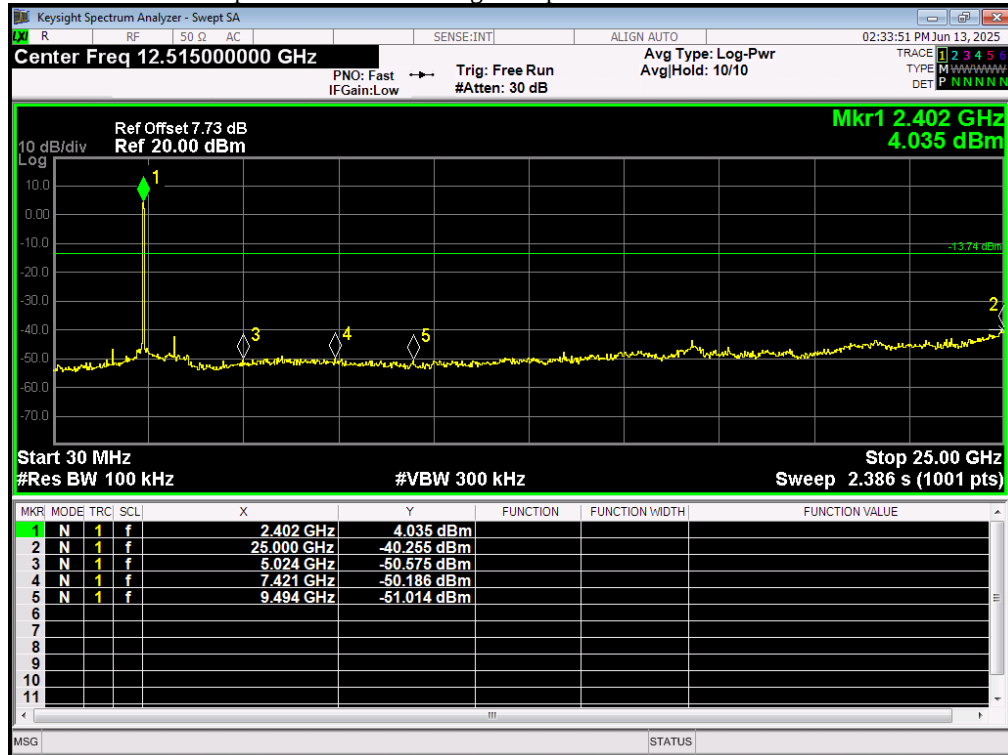


| Condition | Mode             | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------------------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 802.11g<br>6Mbps | 2412            | Ant 1   | -46.507         | -20         | Pass    |
| NVNT      | 802.11g<br>6Mbps | 2437            | Ant 1   | -46.677         | -20         | Pass    |
| NVNT      | 802.11g<br>6Mbps | 2462            | Ant 1   | -44.626         | -20         | Pass    |

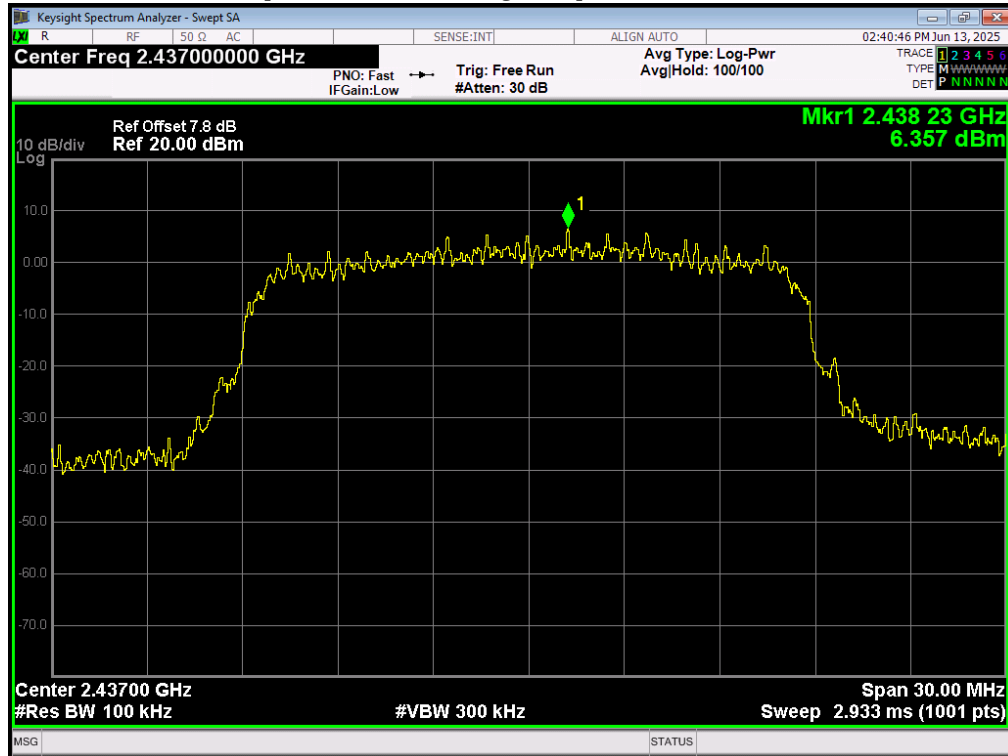
Tx Spurious NVNT 802.11g 6Mbps 2412MHz Ant1 Ref



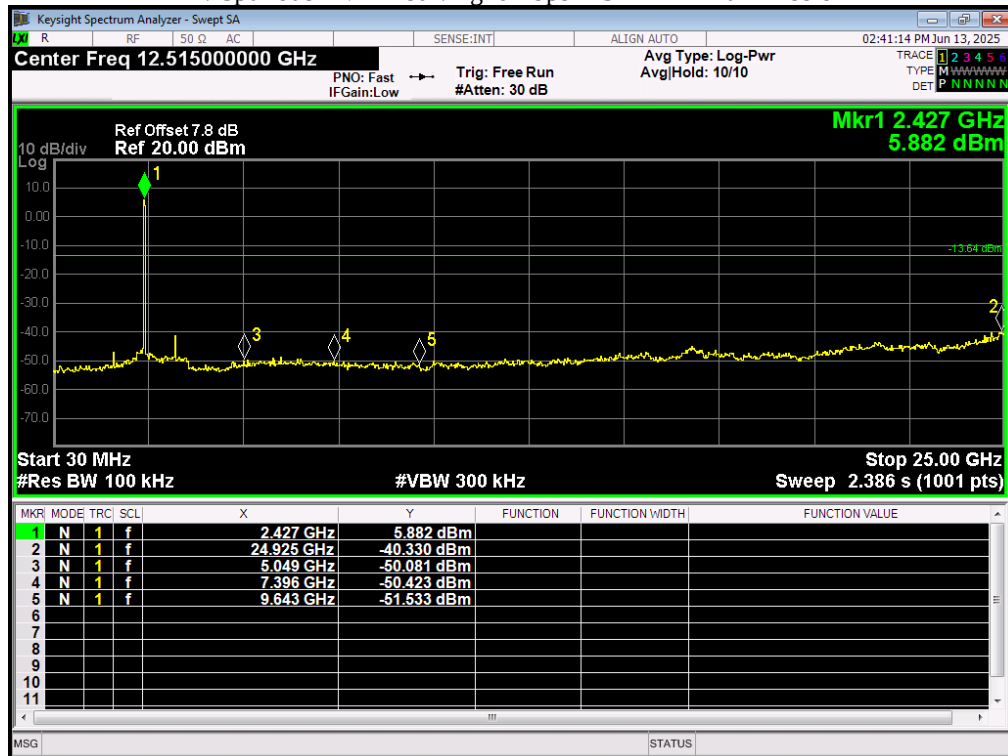
Tx Spurious NVNT 802.11g 6Mbps 2412MHz Ant1 Emission



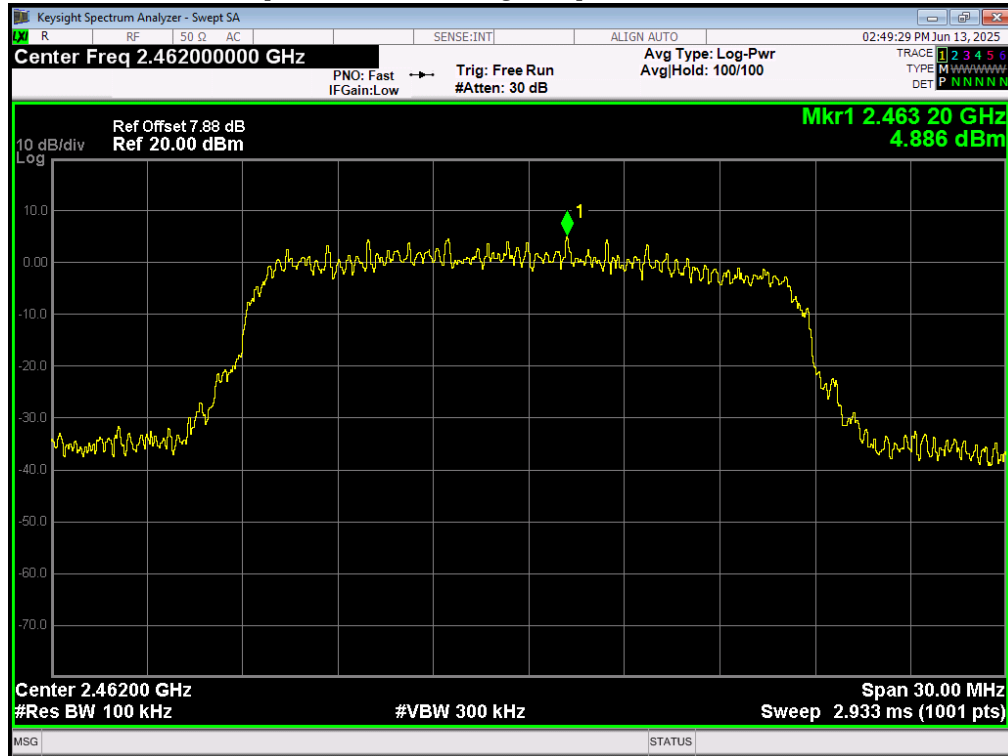
Tx Spurious NVNT 802.11g 6Mbps 2437MHz Ant1 Ref



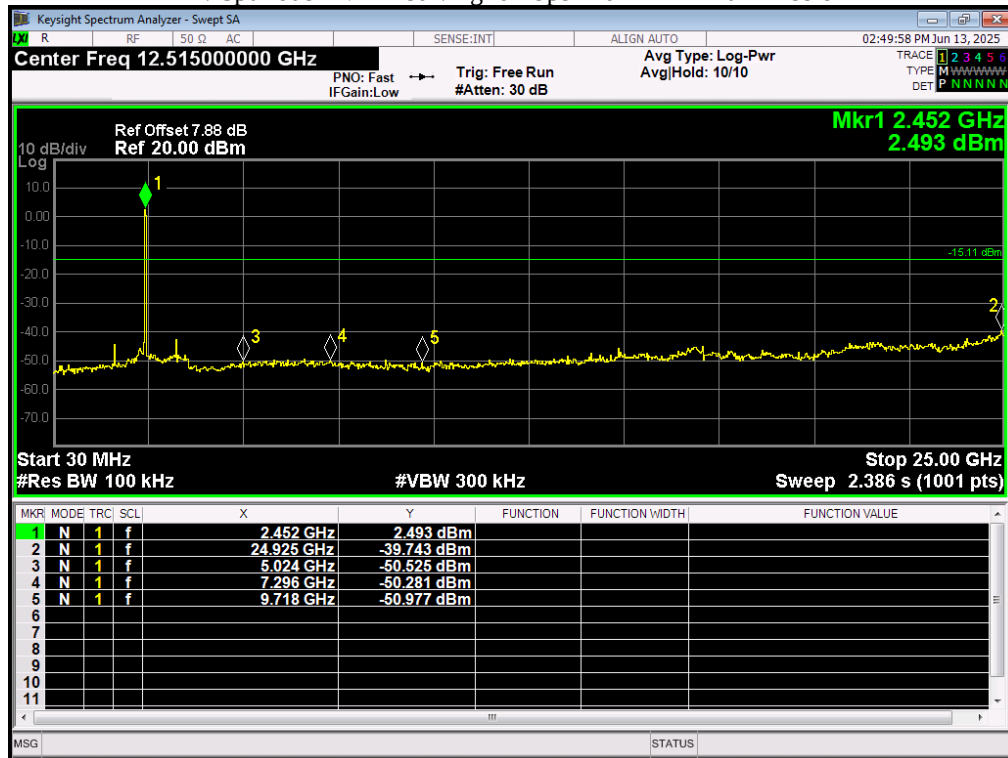
Tx Spurious NVNT 802.11g 6Mbps 2437MHz Ant1 Emission



Tx Spurious NVNT 802.11g 6Mbps 2462MHz Ant1 Ref

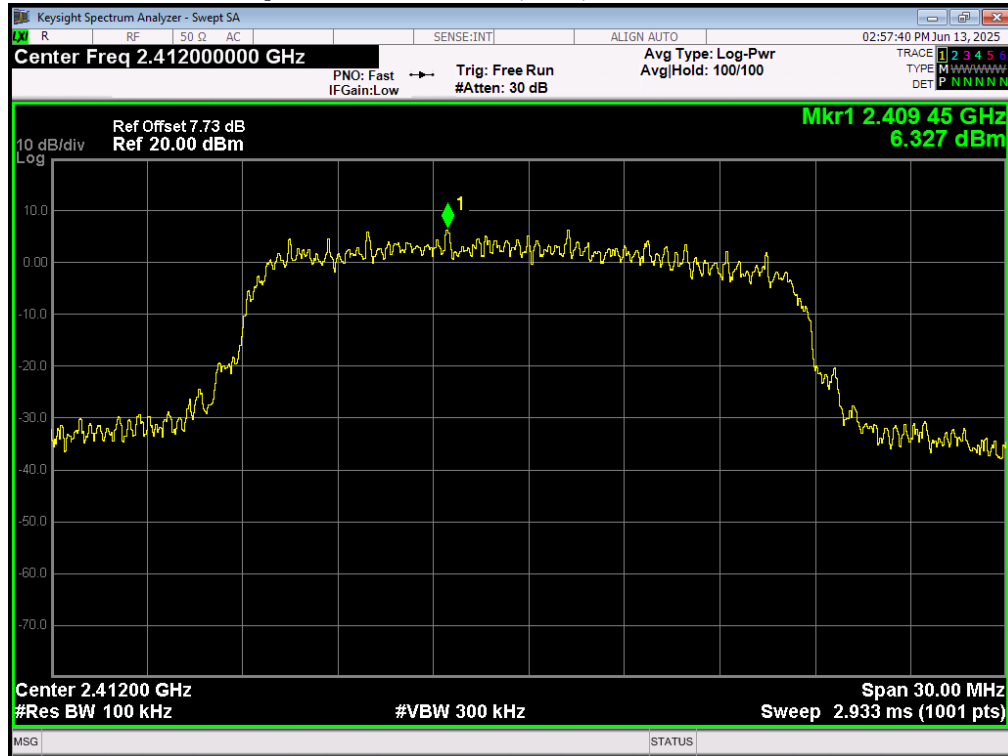


Tx Spurious NVNT 802.11g 6Mbps 2462MHz Ant1 Emission

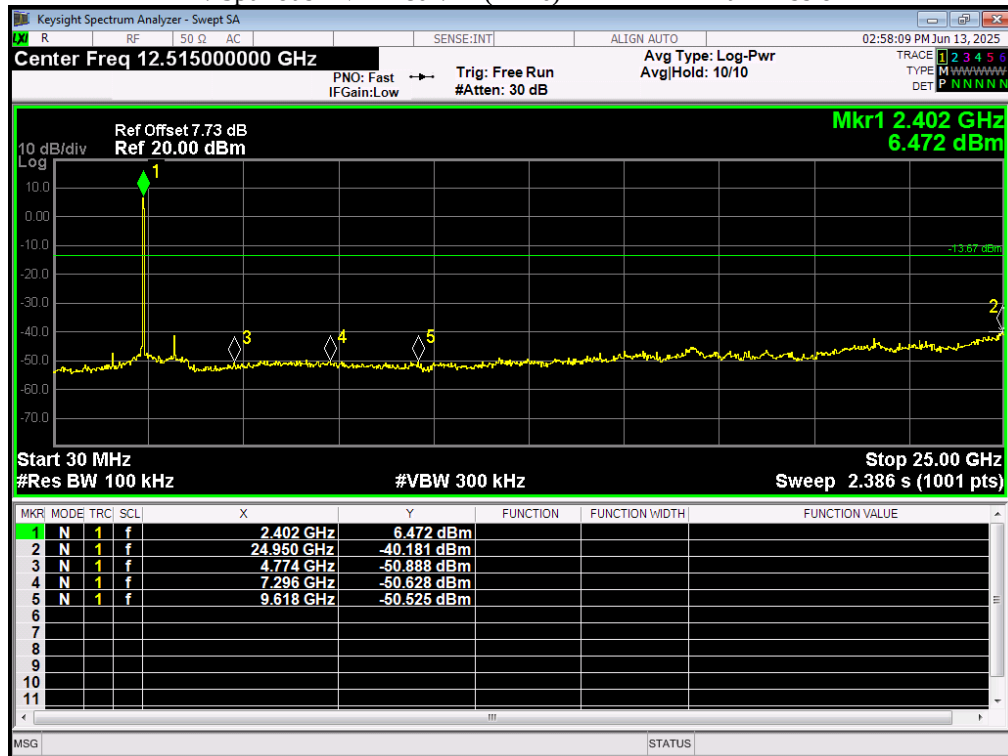


| Condition | Mode          | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 802.11n(HT20) | 2412            | Ant 1   | -46.507         | -20         | Pass    |
| NVNT      | 802.11n(HT20) | 2437            | Ant 1   | -46.95          | -20         | Pass    |
| NVNT      | 802.11n(HT20) | 2462            | Ant 1   | -42.981         | -20         | Pass    |

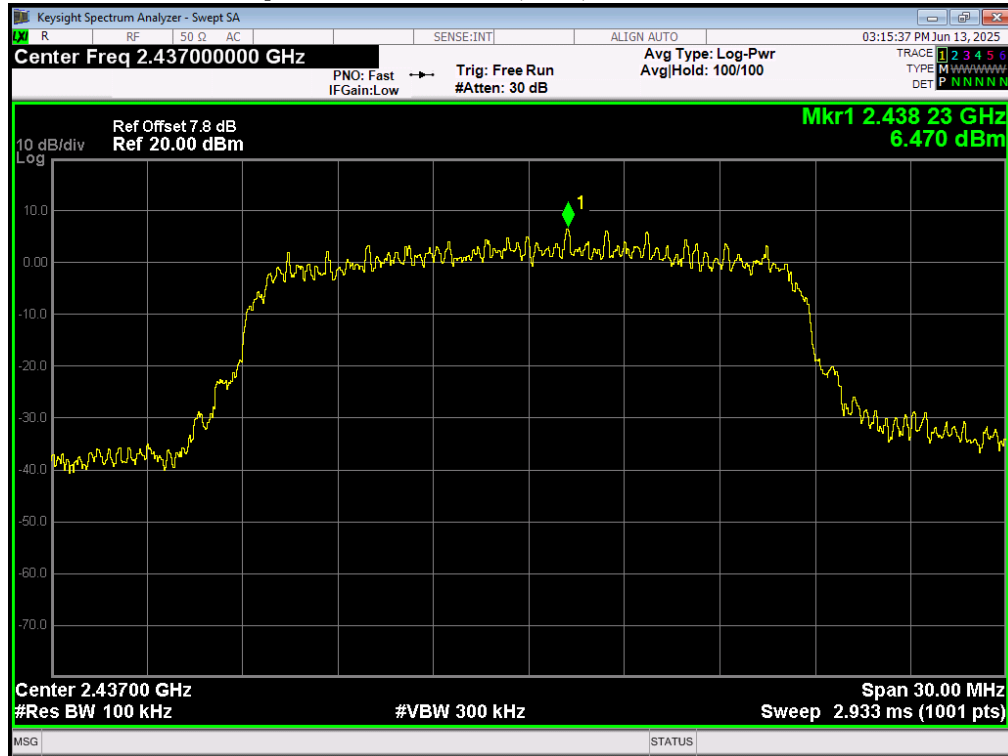
Tx Spurious NVNT 802.11n(HT20) 2412MHz Ant1 Ref



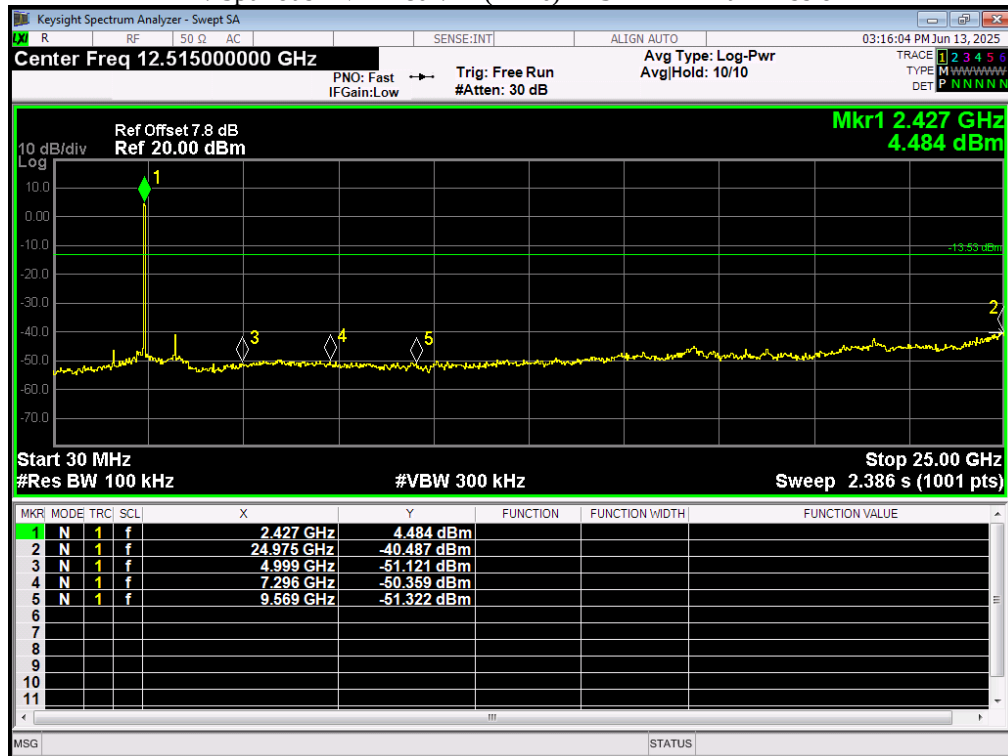
Tx Spurious NVNT 802.11n(HT20) 2412MHz Ant1 Emission



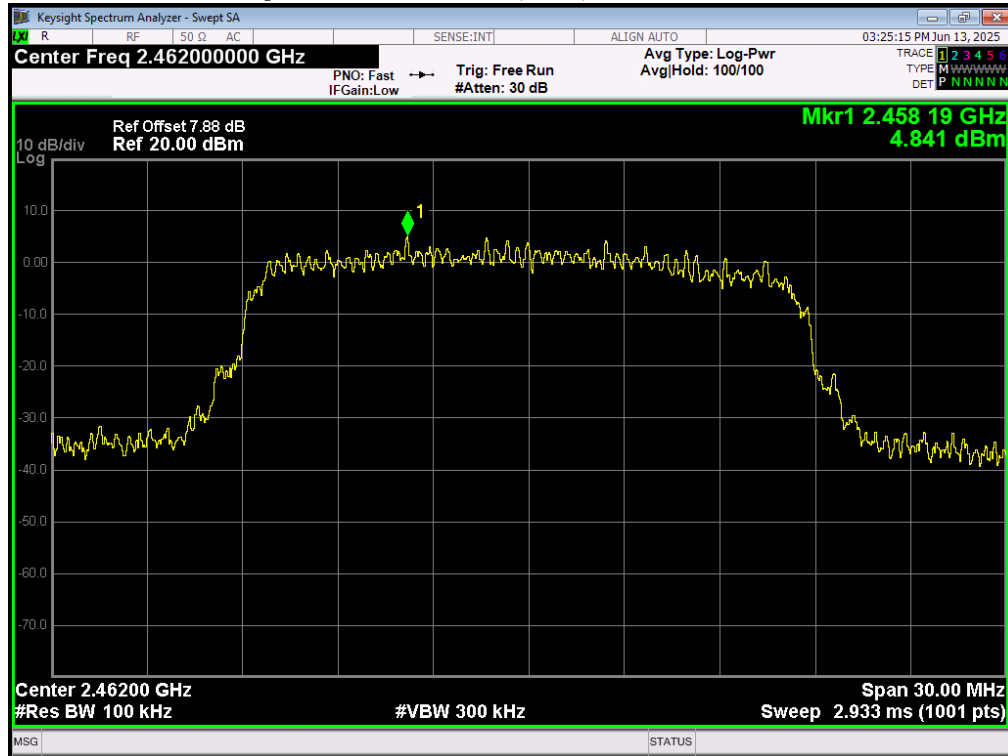
Tx Spurious NVNT 802.11n(HT20) 2437MHz Ant1 Ref



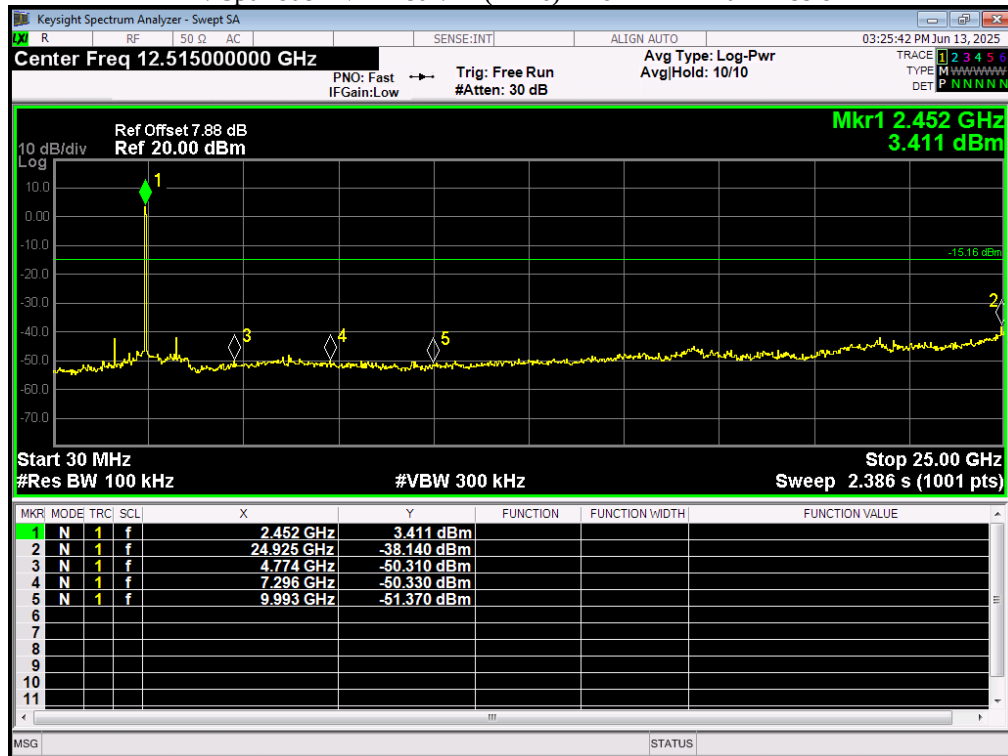
Tx Spurious NVNT 802.11n(HT20) 2437MHz Ant1 Emission



Tx Spurious NVNT 802.11n(HT20) 2462MHz Ant1 Ref



Tx Spurious NVNT 802.11n(HT20) 2462MHz Ant1 Emission

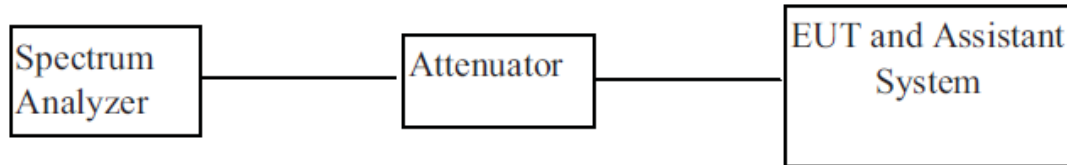


## 9. Conducted Output Power Spectral Density

### 9.1. Test equipment

| Item | Equipment           | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal. Interval |
|------|---------------------|--------------|-----------|------------|------------|---------------|
| 1    | MXA Signal Analyzer | KEYSIGHT     | N9020A    | MY54510476 | 2025-05-08 | 1 Year        |

### 9.2. Block diagram of test setup



### 9.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

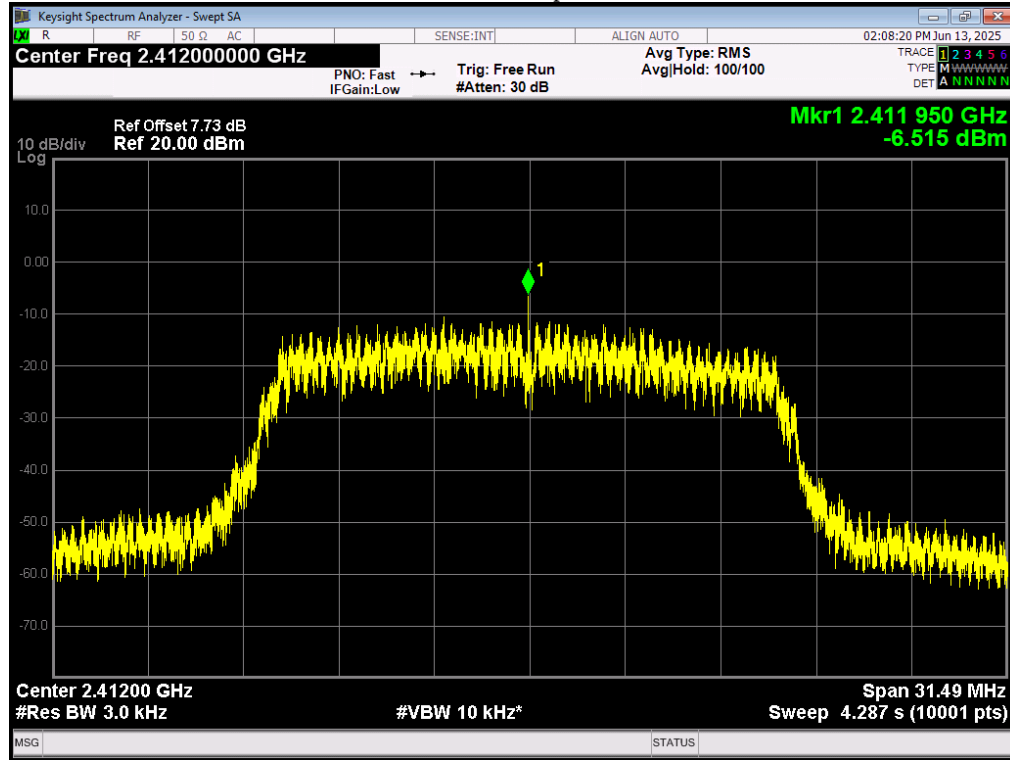
### 9.4. Test Procedure

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

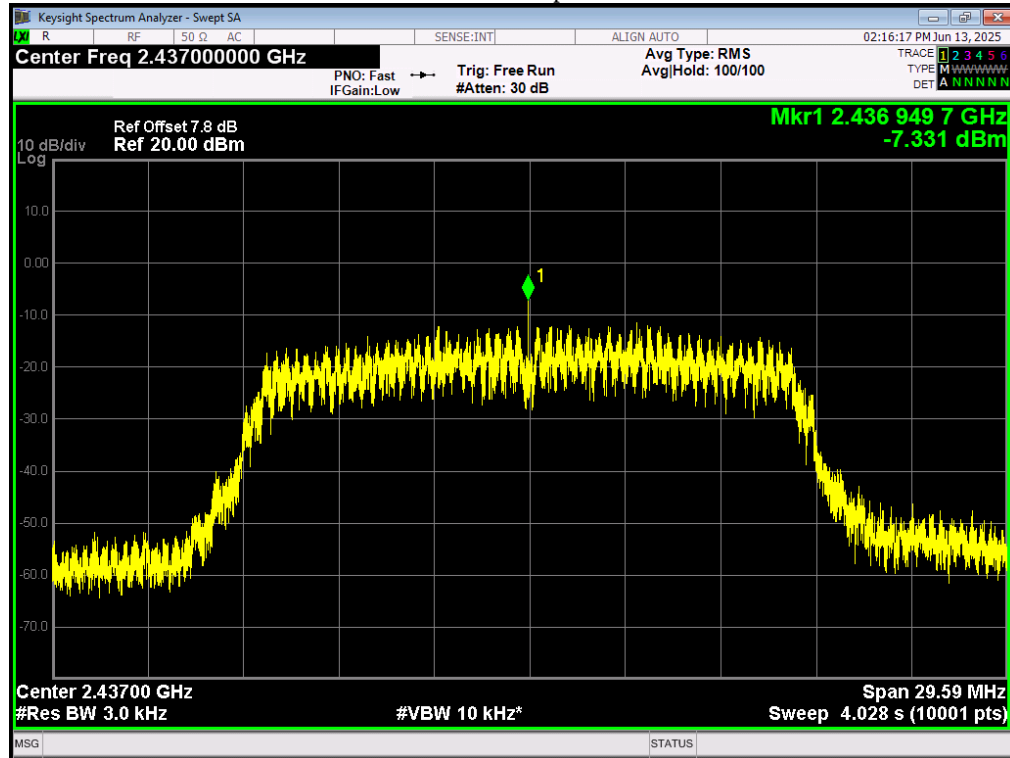
## 9.5. Test result

| Condition | Mode          | Frequency (MHz) | Antenna | Max PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|---------------|-----------------|---------|--------------------|------------------|---------|
| NVNT      | 802.11b 1Mbps | 2412            | Ant 1   | -6.515             | 8                | Pass    |
| NVNT      | 802.11b 1Mbps | 2437            | Ant 1   | -7.331             | 8                | Pass    |
| NVNT      | 802.11b 1Mbps | 2462            | Ant 1   | -8.648             | 8                | Pass    |

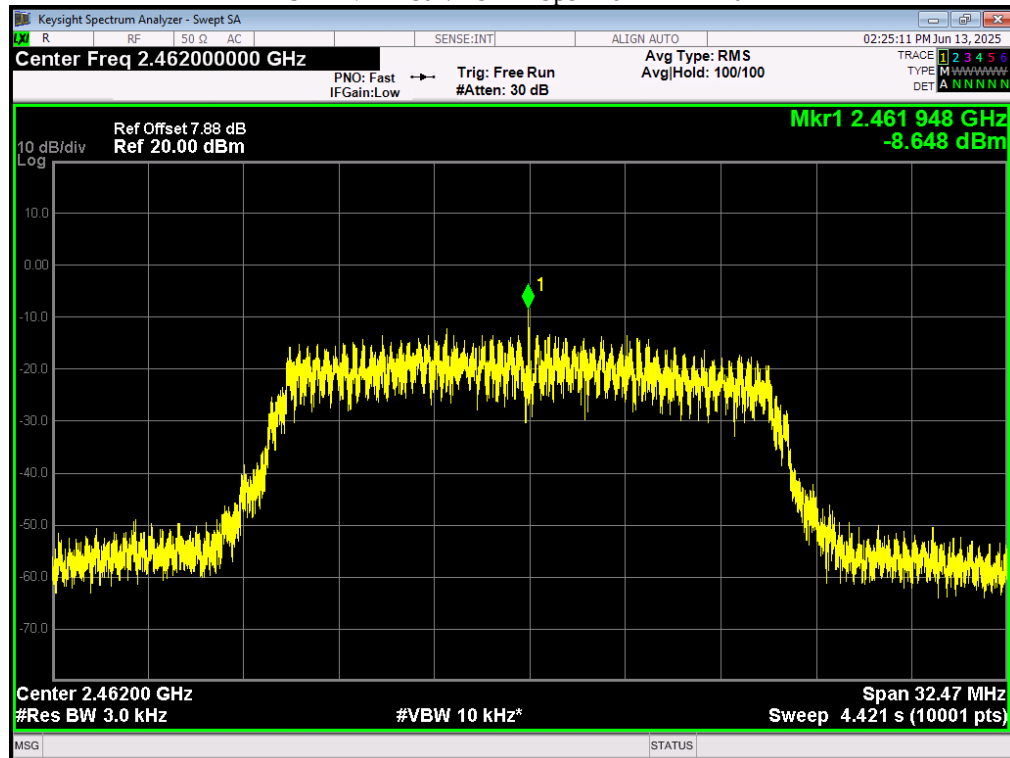
PSD NVNT 802.11b 1Mbps 2412MHz Ant1



PSD NVNT 802.11b 1Mbps 2437MHz Ant1

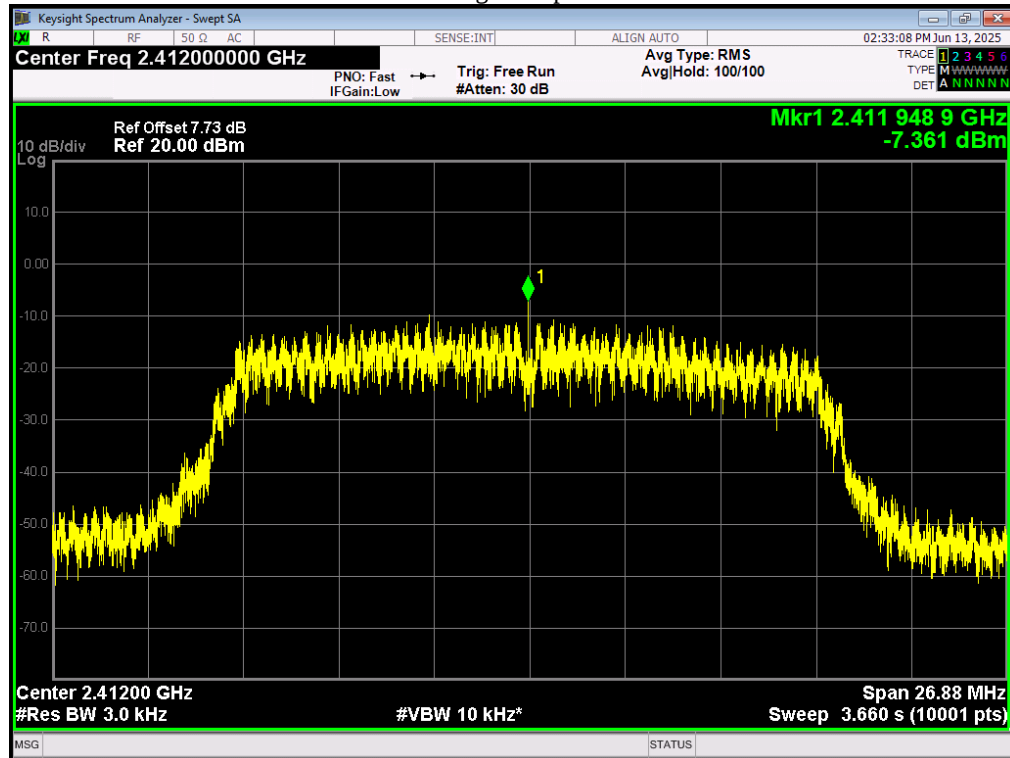


PSD NVNT 802.11b 1Mbps 2462MHz Ant1

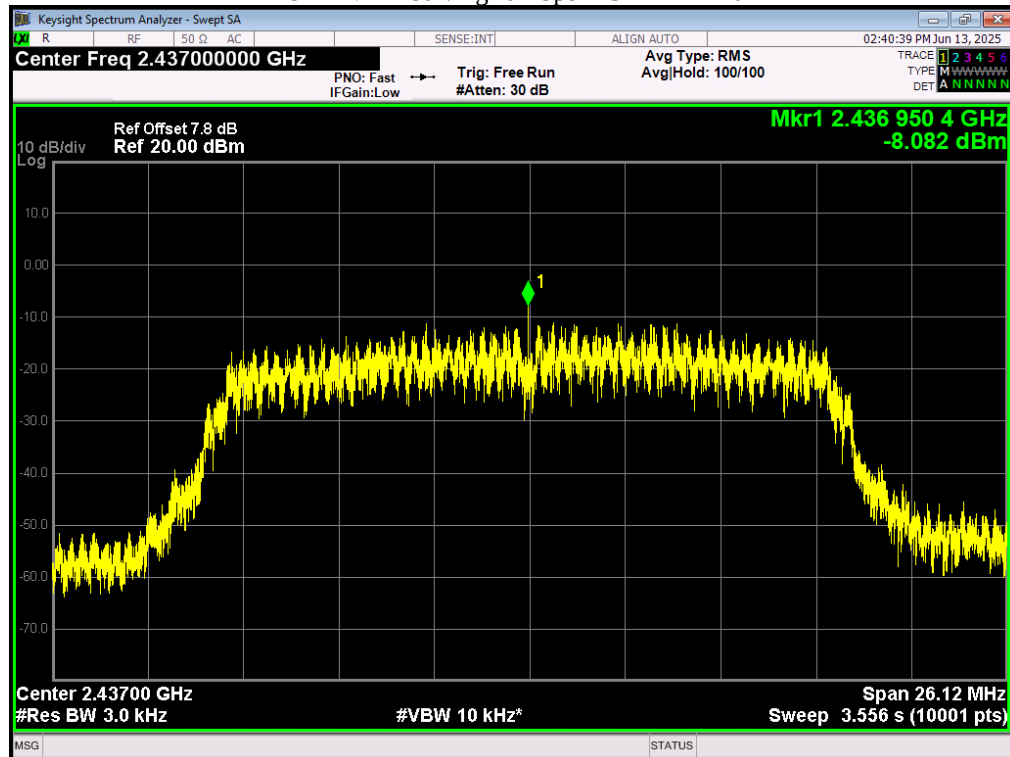


| Condition | Mode             | Frequency (MHz) | Antenna | Max PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------------------|-----------------|---------|--------------------|------------------|---------|
| NVNT      | 802.11g<br>6Mbps | 2412            | Ant 1   | -7.361             | 8                | Pass    |
| NVNT      | 802.11g<br>6Mbps | 2437            | Ant 1   | -8.082             | 8                | Pass    |
| NVNT      | 802.11g<br>6Mbps | 2462            | Ant 1   | -9.216             | 8                | Pass    |

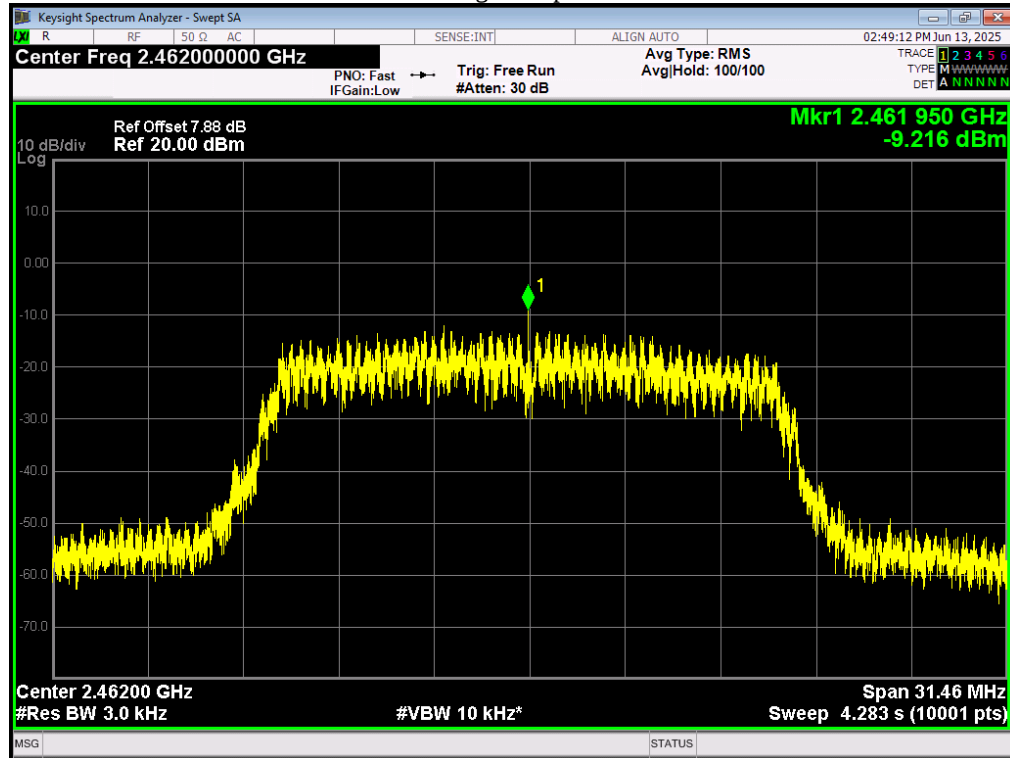
PSD NVNT 802.11g 6Mbps 2412MHz Ant1



PSD NVNT 802.11g 6Mbps 2437MHz Ant1

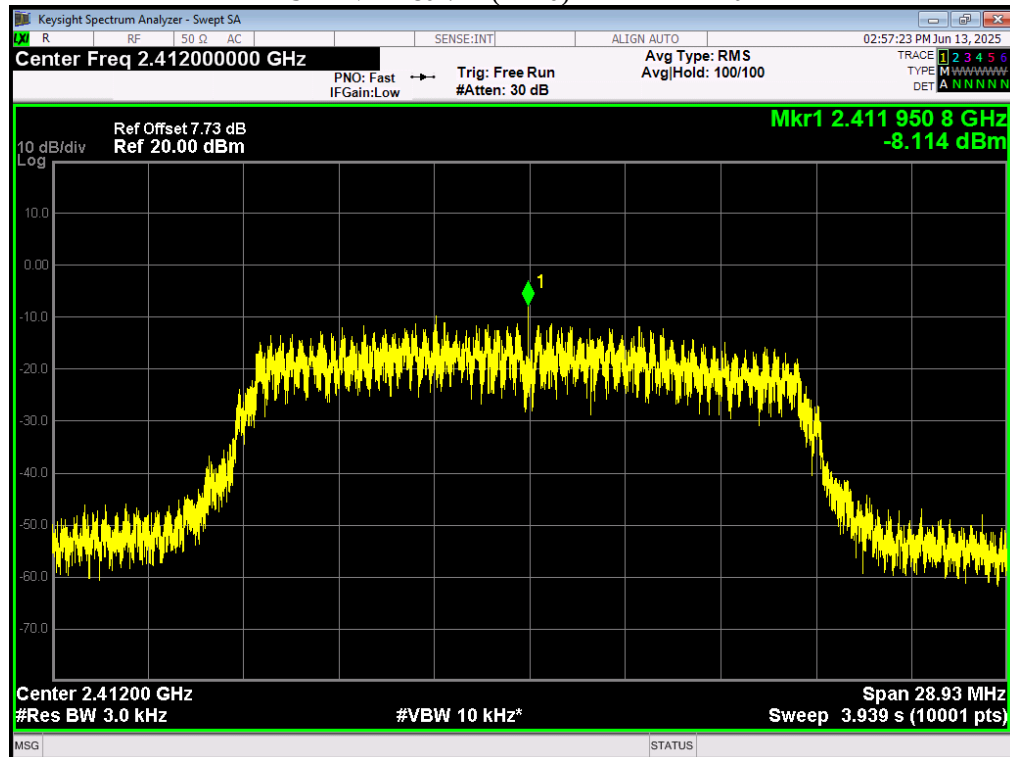


PSD NVNT 802.11g 6Mbps 2462MHz Ant1

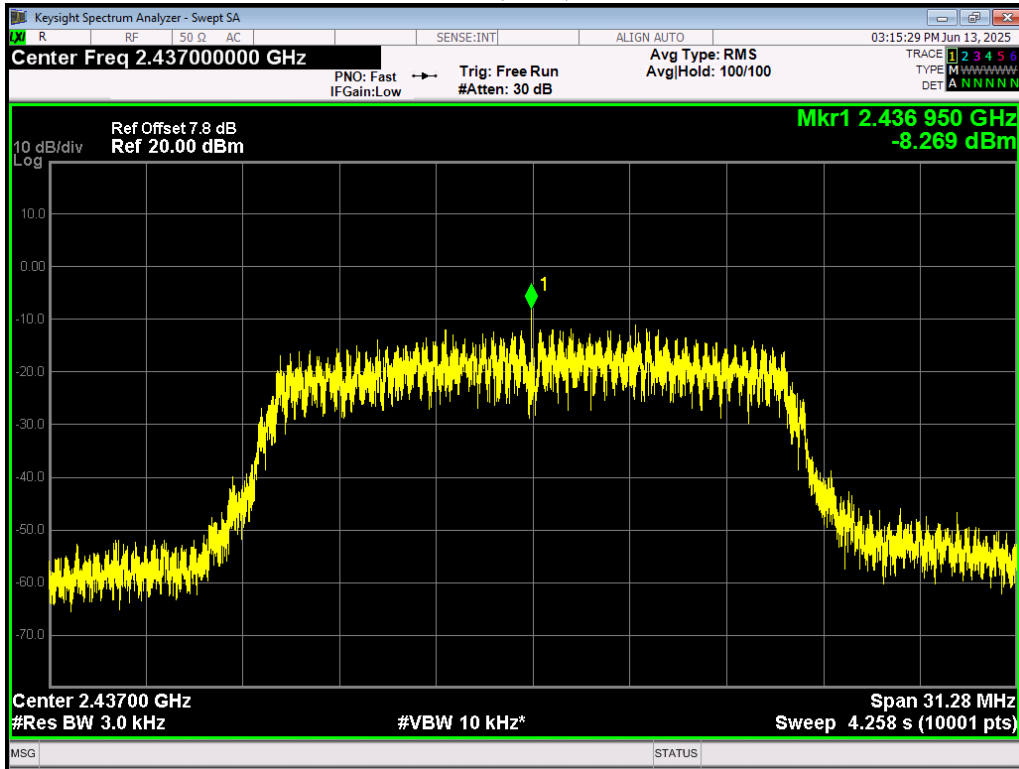


| Condition | Mode          | Frequency (MHz) | Antenna | Max PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|---------------|-----------------|---------|--------------------|------------------|---------|
| NVNT      | 802.11n(HT20) | 2412            | Ant 1   | -8.114             | 8                | Pass    |
| NVNT      | 802.11n(HT20) | 2437            | Ant 1   | -8.269             | 8                | Pass    |
| NVNT      | 802.11n(HT20) | 2462            | Ant 1   | -9.107             | 8                | Pass    |

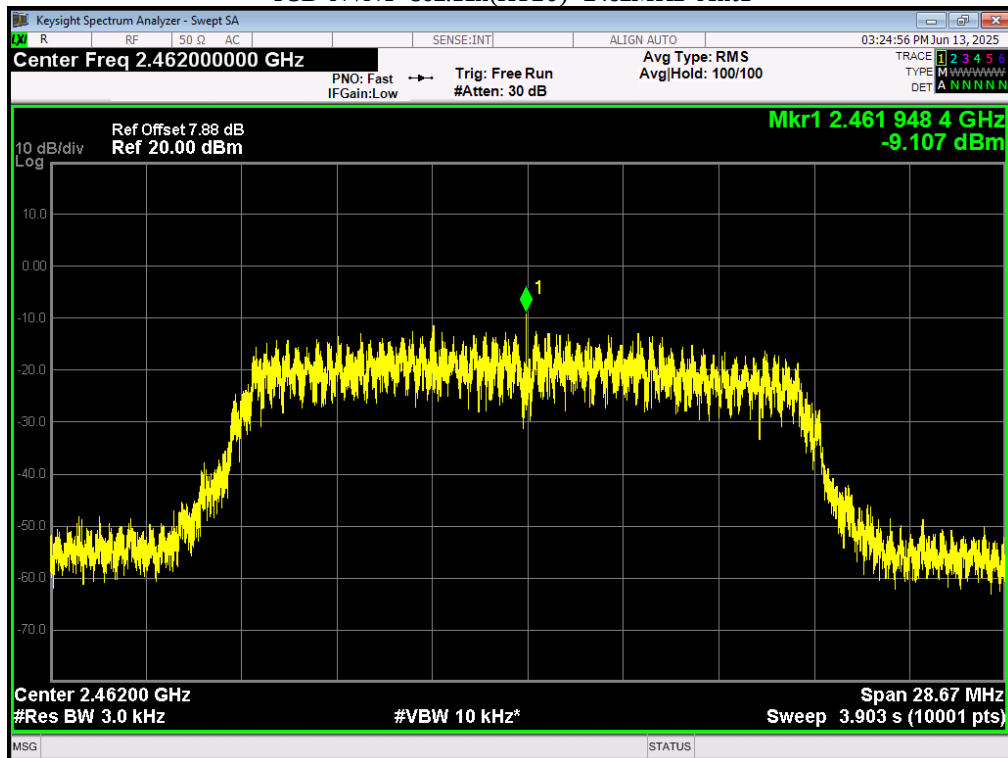
PSD NVNT 802.11n(HT20) 2412MHz Ant1



PSD NVNT 802.11n(HT20) 2437MHz Ant1



PSD NVNT 802.11n(HT20) 2462MHz Ant1



## 10. Antenna Requirement

### 10.1. Standard requirement

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

15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### 10.2. EUT Antenna

The antenna is Integral Antenna and no consideration of replacement. Antenna gain is Maximum 0dBi from 2.4GHz to 2.5GHz.

## 11. Test setup photograph

### 11.1. Photos of power line conducted emission test



### 11.2. Photos of radiated emission test

30MHz – 1GHz



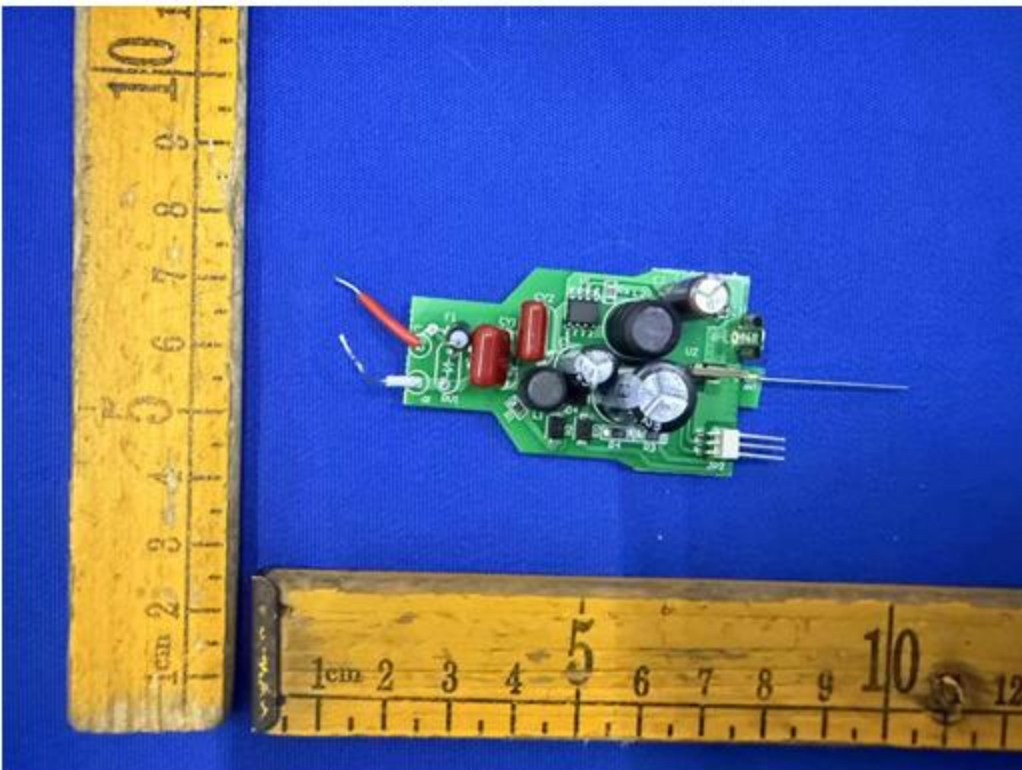
Above 1GHz

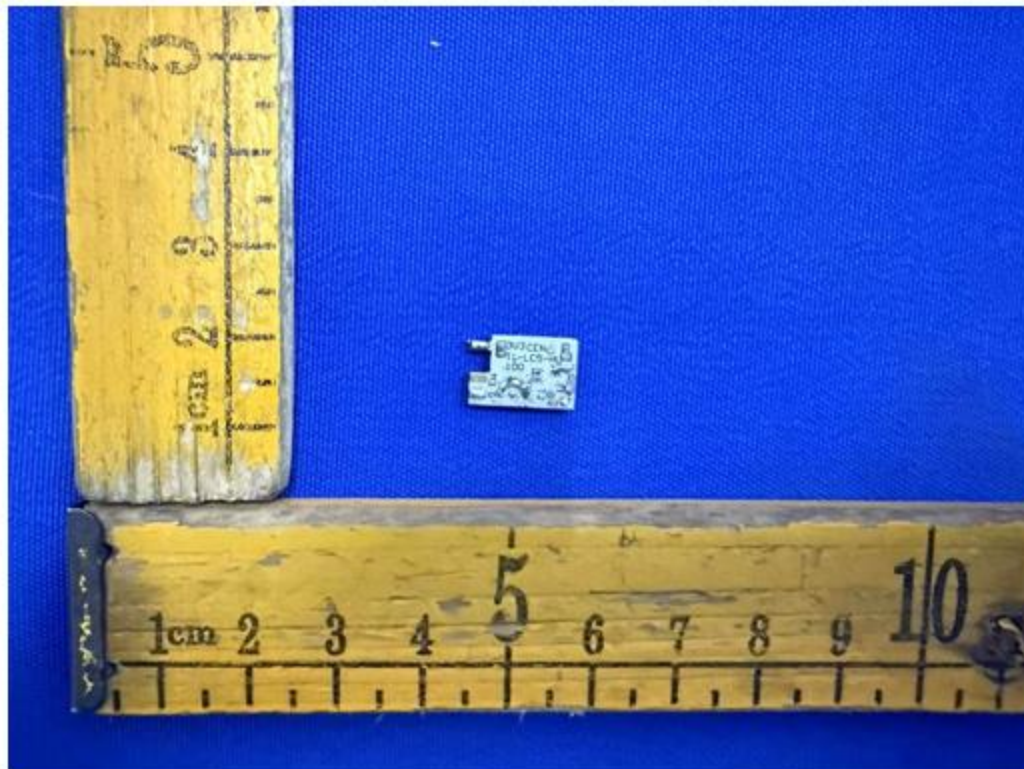
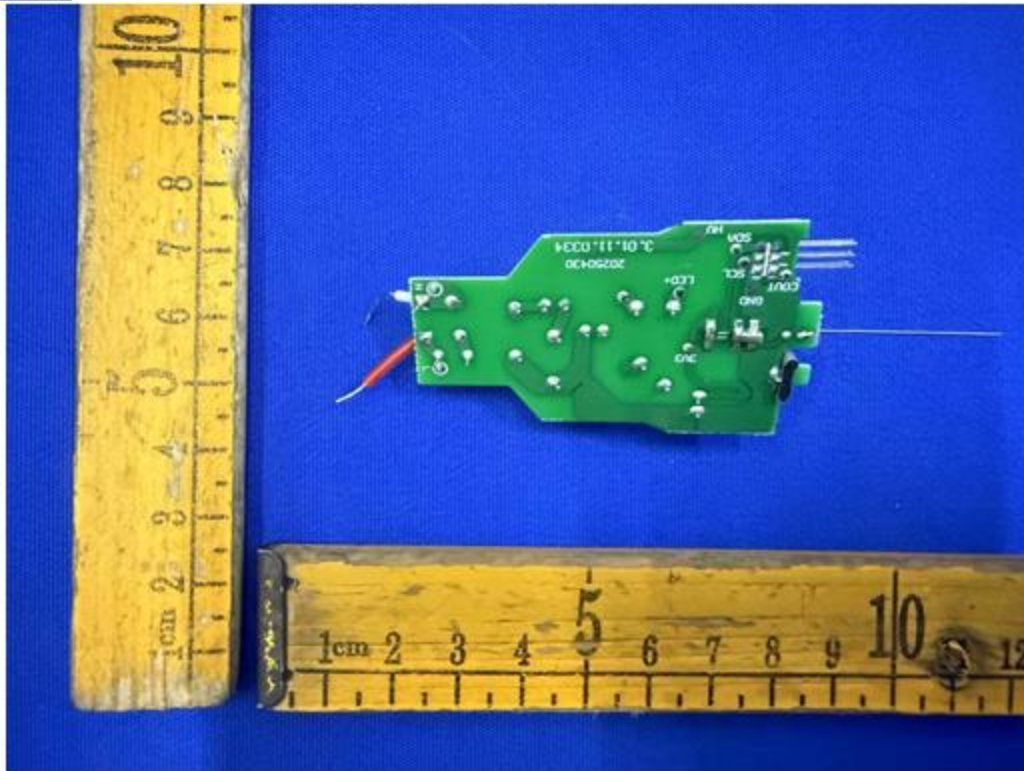


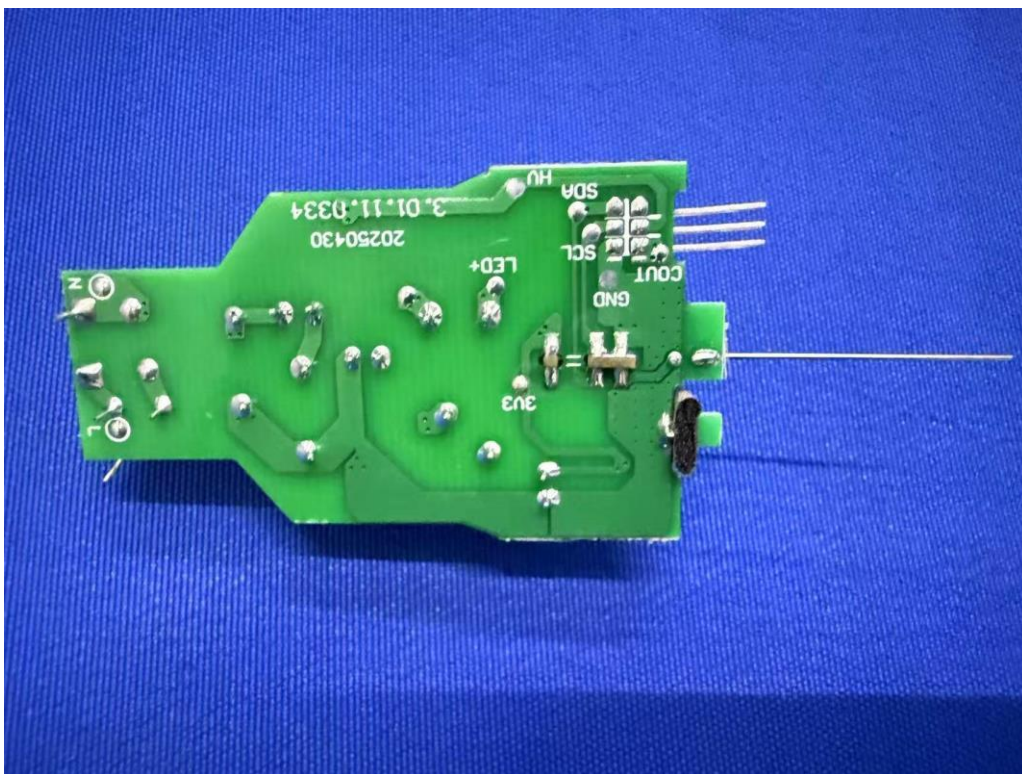
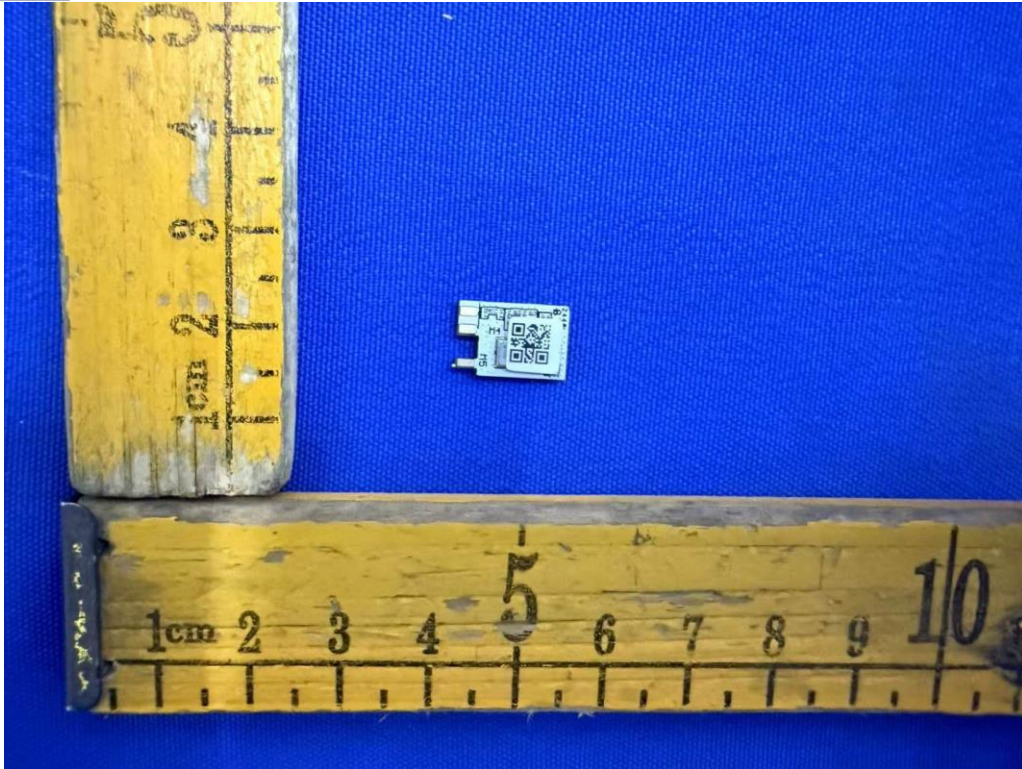
## 12. Photos of the EUT

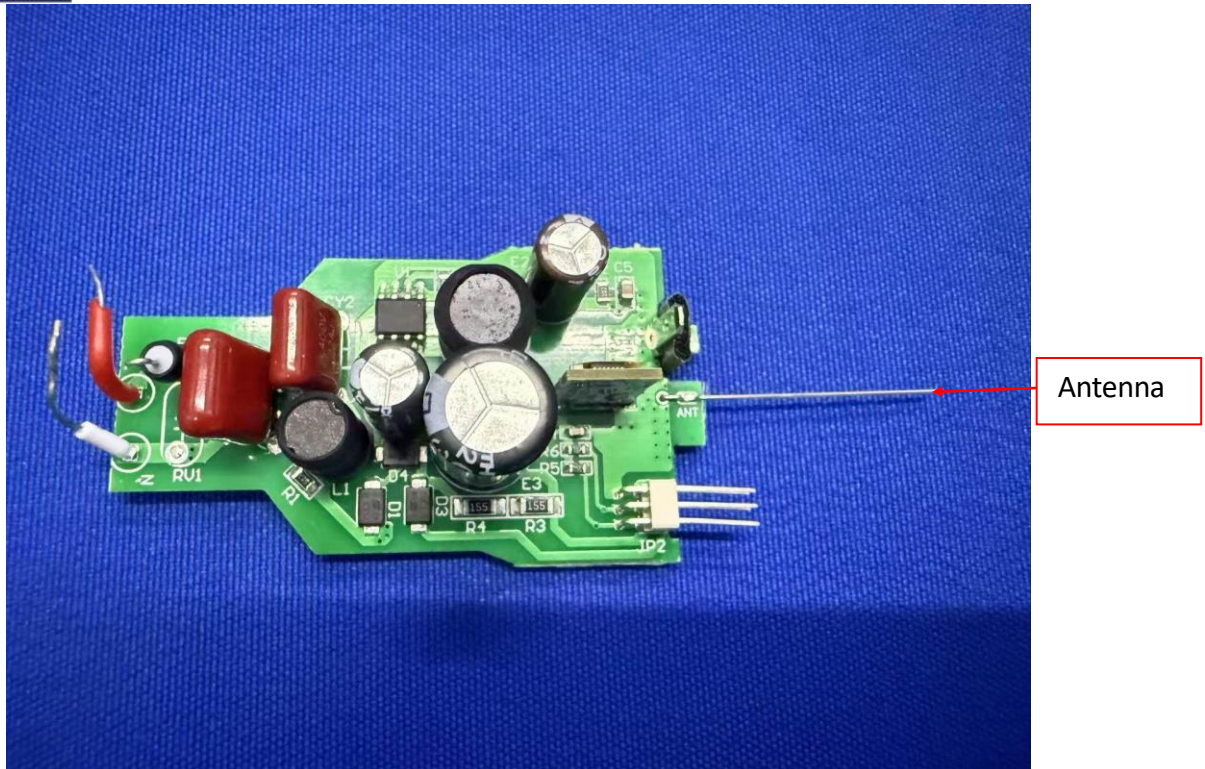












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