



# Test Report

No.: AJT250402021EB-3

Applicant Name: GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.  
Applicant Address: BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA  
Manufacturer: GUANGDONG HENGDI TECHNOLOGY CORP.,LTD.  
Manufacturer Address: BUILDING C, JINHUI INDUSTRIAL BUILDING, SOUTH OF YUTING ROAD, EAST OF TAIAN ROAD, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description: RC TOY  
Model No.: 2411SE  
Additional Model: Please refer to page 4  
FCC ID: 2AWZK-2411SECAM  
Sample Received Date: 02 April, 2025  
Testing Completed Date: 28 July, 2025

Tests conducted: For compliance with application, refer to attached page(s) for details.

| Assess standard used:                    | Conclusion |
|--|------------|
| 47 CFR Part 15 Subpart C, Section 15.247 | PASS       |

Tested by:

*Glory*

Reviewed by:

*Fly Liang*

Approved by:

Position: Technical Supervisor  
Date: 2025-07-30



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# Test Report

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## 1 Test Standards

|   |
|---|
| The tests were performed according to following standards:  |
| 47 CFR Part 15 Subpart C, Section 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.   |
| ANSI C63,10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices  |
| KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019:<br>GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM,<br>FREQUENCY HOPPING SPREAD SPECTRUMSYSTEM, AND HYBRID SYSTEM DEVICES<br>OPERATING UNDER SECTION 15.247OF THE FCC RULES |

## 2 Summary

### 2.1 General Remarks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Date of receipt of test sample | 02 April, 2025                    |
| Testing commenced on           | 02 April, 2025 ---- 28 July, 2025 |
| Testing concluded on           | 28 July, 2025                     |

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# Test Report

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## 3 General Information

### 3.1 General Description of E.U.T.

|   |   |
|---|---|
| Product:  | RC TOY  |
| Model(s):   | 2411SE  |
| Additional Model:   | 2306SE, 2308SE, 2316SE, 2418SE, 2411, 2411W, 2411S , 2418, 2418W, 2301, 2303, 2305, 2306, 2308, 2310, 2313, 2314, 2316A, 2316D, 2316W, 2316DW, 2320, 2323, 2202, 2205, 2205D, 2209H, 2215, 2216, 2106, 2106S, 2003, 2013, 1336, 1340, 1303, 1343A, 1339A, 1818, H20, H24, H26, H36, H65, HQ051, HQ051S, HQ052, HQ052S, HQ053, HQ056, HQ057, HQ058, BD101, BD102, 2008A, 2101, 2405, 2104, 2201, 2420, 2008B, 2213, 2401, 2409-1, 2409-2, 2409-4, 1802, 1802-4, 1906S, 1906, 1902, 1903, 2416, 1915, 1905-1, 1905-2, DB1-1, DB2-1, DB3-1, DB1-2, DB2-3, DB2-4, DB2-5, 1801SE, 2501, 2502, 2414, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 40037, 2103, ODY-7500, ODY-1026, ODY-01SI, ODY-02SI, ODY-03SI, ODY-1208HRN, ODY-1208WT, ODY-1012BR, ODY-1956 |
| FCC ID:   | 2AWZK-2411SECAM   |
| Wi-Fi Specification:  | 2.4G-802.11b/g/n HT20   |
| Modulation Type   | WiFi: DSSS, OFDM  |
| Antenna Type  | External antenna, 2dBi Gain   |
| Highest frequency (Exclude Radio):  | 24MHz   |
| <p>NOTE:</p> <p>1.The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.</p> <p>2. Product models same are identical in the PCB layout, electrical circuit design and functions, The differences are appearance color, exterior structure, and model name for commercial purpose.</p> |   |

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## 3.2 Details of E.U.T.

|  |  |
|--|--|
| Operation Frequency:   | Wi-Fi:<br>802.11b/g/n HT20: 2412~2462MHz |
| Max. RF output power:  | Wi-Fi (2.4G): 4.07dBm                    |
| Type of Modulation:  | Wi-Fi: DSSS, OFDM                        |
| Antenna installation:  | Wi-Fi: External antenna,                 |
| Antenna Gain:  | Wi-Fi (2.4G): 2.0dBi                     |
| Voltage:   | DC 3.7V (Battery*1)                      |
| NOTE:<br>1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer. |  |

## 3.3 Channel List

### WIFI

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| 1           | 2412            | 2           | 2417            | 3           | 2422            | 4           | 2427            |
| 5           | 2432            | 6           | 2437            | 7           | 2442            | 8           | 2447            |
| 9           | 2452            | 10          | 2457            | 11          | 2462            | 12          | -               |

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## 3.4 Test mode

Table 1 Tests Carried Out Under FCC part 15.247

| Test Items                     | Mode         | Data Rate | Channel | TX/RX |
|--------------------------------|--------------|-----------|---------|-------|
| Maximum Conducted Output Power | 802.11b      | 11 Mbps   | 1/6/11  | TX    |
|                                | 802.11g      | 54 Mbps   | 1/6/11  | TX    |
|                                | 802.11n HT20 | 108 Mbps  | 1/6/11  | TX    |
| Power Spectral Density         | 802.11b      | 11 Mbps   | 1/6/11  | TX    |
|                                | 802.11g      | 54 Mbps   | 1/6/11  | TX    |
|                                | 802.11n HT20 | 108 Mbps  | 1/6/11  | TX    |
| 6dB Bandwidth                  | 802.11b      | 11 Mbps   | 1/6/11  | TX    |
|                                | 802.11g      | 54 Mbps   | 1/6/11  | TX    |
|                                | 802.11n HT20 | 108 Mbps  | 1/6/11  | TX    |
| Band Edge                      | 802.11b      | 11 Mbps   | 1/6/11  | TX    |
|                                | 802.11g      | 54 Mbps   | 1/6/11  | TX    |
|                                | 802.11n HT20 | 108 Mbps  | 1/6/11  | TX    |
| Transmitter Spurious Emissions | 802.11b      | 11 Mbps   | 1/6/11  | TX    |
|                                | 802.11g      | 54 Mbps   | 1/6/11  | TX    |
|                                | 802.11n HT20 | 108 Mbps  | 1/6/11  | TX    |

Note: Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

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# Test Report

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## 4 Test Summary

| Test Items                                       | Test Requirement            | Result           |
|--|-----------------------------|------------------|
| Radiated Emissions in restricted frequency bands | 15.247(d),<br>15.205&15.209 | PASS             |
| Conducted Spurious Emissions                     | 15.247(d)                   | PASS             |
| Conducted Emissions                              | 15.207(a)                   | N/A <sup>a</sup> |
| 6dB Bandwidth                                    | 15.247(a)(2)                | PASS             |
| Maximum Conducted Output Power                   | 15.247(b)(3), (4)           | PASS             |
| Power Spectral Density                           | 15.247(e)                   | PASS             |
| Conducted Band Edges Measurement                 | 15.247(d)                   | PASS             |
| Antenna Requirement                              | 15.203                      | PASS             |

Note:

1. a: EUT operates on battery power.
2. N/A : Not applicable.
3. This report supersedes the original report of AJT250402021EA-3, Added the data of Radiated Emissions in restricted frequency bands.

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## 5 Equipment Used during Test

### 5.1 Equipments List

| Item | Test Equipment                       | Manufacturer    | Model No.          | Serial No.           | Last Cal.  | Next Cal.  |
|------|--------------------------------------|-----------------|--------------------|----------------------|------------|------------|
| 1    | Spectrum Analyzer                    | Keysight        | N9010A             | MY51120099           | 2025/02/17 | 2026/02/16 |
| 2    | JS0806-2 RF Control Unit             | Tonscend        | JS0806-2           | 188060124            | 2024/08/07 | 2025/08/07 |
| 3    | Broadband Preamplifier               | SCHWARZBECK     | BBV 9743B          | 00067                | 2025/02/17 | 2026/02/16 |
| 4    | Broadband Preamplifier               | SCHWARZBECK     | BBV 9718B          | 00002                | 2025/02/17 | 2026/02/16 |
| 5    | EMI Test Receiver                    | ROHDE & SCHWARZ | ESR3               | 102452               | 2025/02/17 | 2026/02/16 |
| 6    | Trilog Broadband Antenna             | SCHWARZBECK     | VULB 9163          | 01127                | 2025/03/11 | 2026/03/10 |
| 7    | Horn Antenna                         | SCHWARZBECK     | BBHA 9120D         | 01829                | 2025/03/11 | 2026/03/10 |
| 8    | DC Power Supply                      | MAISEN          | MP5030D            | 2018121557           | 2025/02/20 | 2026/02/09 |
| 9    | Vector Signal Generator              | Keysight        | N5172B             | MY53052255           | 2025/02/17 | 2026/02/16 |
| 10   | Analog Signal Generator              | Keysight        | N5171B             | MY53051692           | 2025/02/17 | 2026/02/16 |
| 11   | Temperature Humidity Chamber         | Yiheng          | BPS-50CB           | 191005684            | 2025/02/17 | 2026/02/16 |
| 12   | Temperature and Humidity Indicator   | JianDaRenKe     | Cos-03             | 612058               | 2025/06/30 | 2026/06/30 |
| 13   | BAT-EMC Testing (Test Software)      | NEXIO           | Version: 3.19.1.20 | N/A                  | N/A        | N/A        |
| 14   | JS1120-3 Test System (Test Software) | Tonscend        | JS1120-3           | Version: 2.5.77.0418 | N/A        | N/A        |
| 15   | Active Loop Antenna                  | HRTY            | HR8913A            | 6933132206023        | 2025/07/18 | 2026/07/18 |

### 5.2 Description of Support Units

| Equipment | Manufacturer | Model No. | Series No. |
|-----------|--------------|-----------|------------|
| /         | /            | /         | /          |

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## 5.3 Measurement Uncertainty

| Measurement Uncertainty (Standard: ETSI TR 100 028) |                                      |
|---|--------------------------------------|
| Conducted Emission (CE)                             | $\pm 2.14\text{dB}$                  |
| Radiated Emission below 1GHz                        | $\pm 4.44\text{dB}$                  |
| Radiated Emission above 1GHz                        | $\pm 5.26\text{dB}$                  |
| RF output power                                     | $\pm 1.24\text{dB}$                  |
| Occupied bandwidth                                  | $\pm 55.4\text{kHz}$                 |
| Conducted Spurious Emissions test                   | $\pm 0.876\text{dB}$ (10MHz-3.6GHz)  |
|   | $\pm 1.65\text{dB}$ (3.6GHz-26.5GHz) |

Note: The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

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# Test Report

No.: AJT250402021EB-3

## 6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207  
Test Method: ANSI C63.10:2013  
Test Result: Pass  
Frequency Range: 150kHz to 30MHz  
Class/Severity: Class B  
Limit:

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

### 6.1 E.U.T. Operation

Operating Environment:

Temperature: N/A

Humidity: N/A

Atmospheric Pressure: N/A

EUT Operation: The test was performed in TX transmitting mode, the worst data were shown in the report.

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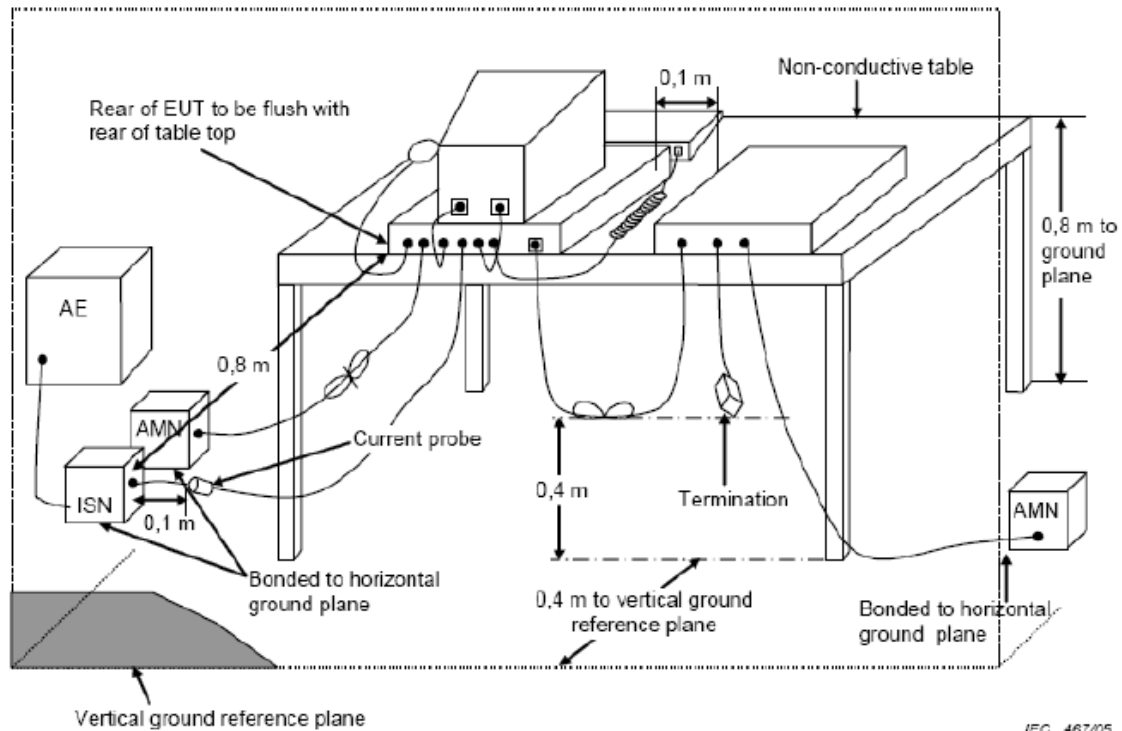
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## 6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



## 6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

## 6.4 Conducted Emission Test Result

N/A

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# Test Report

No.: AJT250402021EB-3

## 7 Radiated Emissions in restricted frequency bands

Test Requirement: FCC CFR47 Part 15 Section 15.205, 15.209 & 15.247  
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;  
Subclause 11.12 of ANSI C63.10:2013  
Test Result: PASS  
Measurement Distance: 3m

Limit:

| Frequency<br>(MHz) | Field Strength |                 | Field Strength Limit at 3m Measurement Dist |                          |
|--------------------|----------------|-----------------|---|--------------------------|
|                    | uV/m           | Distance<br>(m) | uV/m  | dBuV/m                   |
| 0.009 ~ 0.490      | 2400/F(kHz)    | 300             | 10000 * 2400/F(kHz)                         | 20log(2400/F(kHz)) + 80  |
| 0.490 ~ 1.705      | 24000/F(kHz)   | 30              | 100 * 24000/F(kHz)                          | 20log(24000/F(kHz)) + 40 |
| 1.705 ~ 30         | 30             | 30              | 100 * 30                                    | 20log(30) + 40           |
| 30 ~ 88            | 100            | 3               | 100   | 20log(100)               |
| 88 ~ 216           | 150            | 3               | 150   | 20log(150)               |
| 216 ~ 960          | 200            | 3               | 200   | 20log(200)               |
| Above 960          | 500            | 3               | 500   | 20log(500)               |

### 7.1 EUT Operation

EUT Operation: The test was performed in WIFI link mode, the test data were shown in the report.

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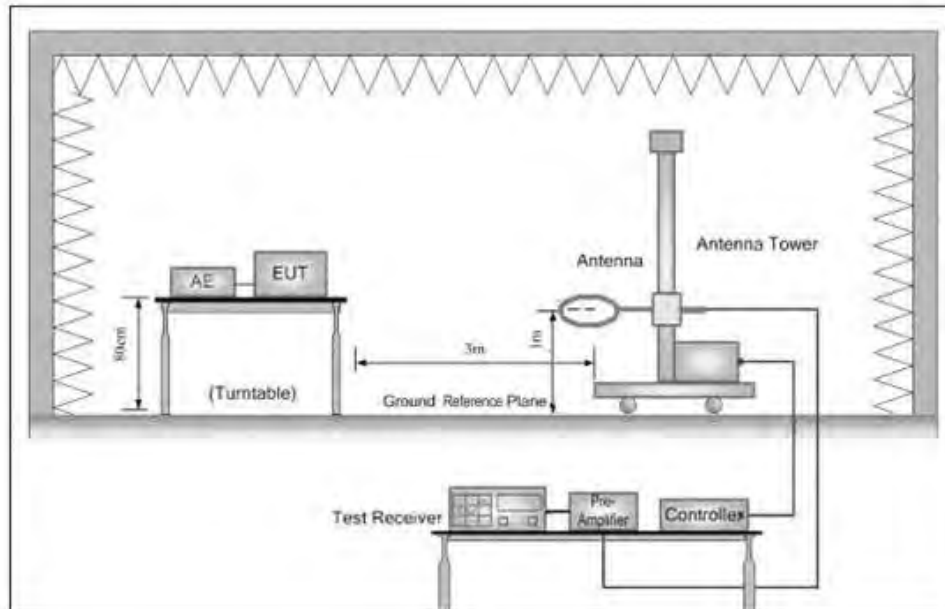




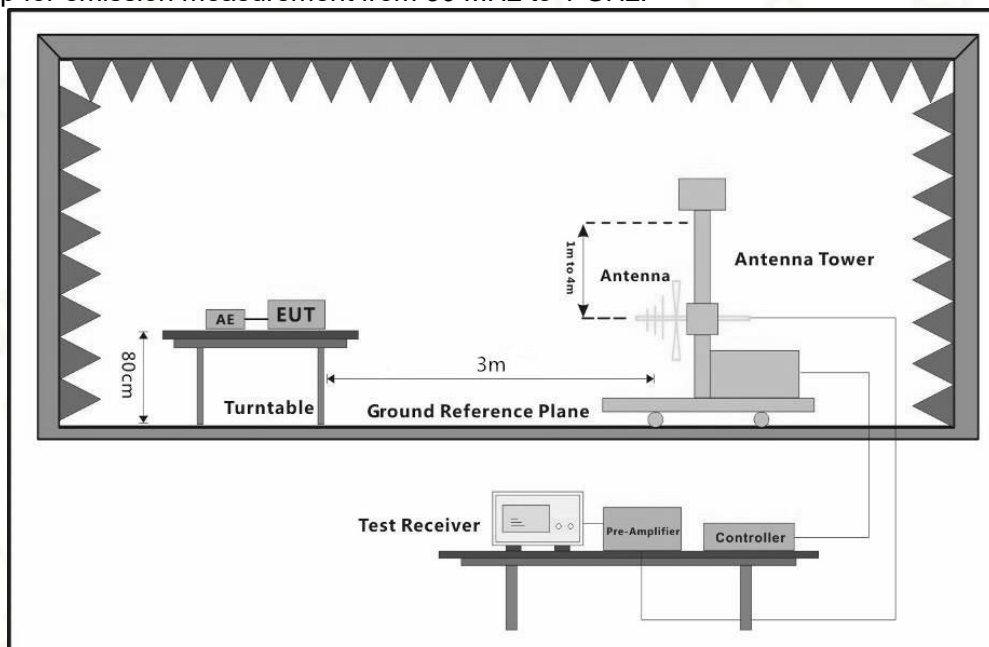
## 7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



1.

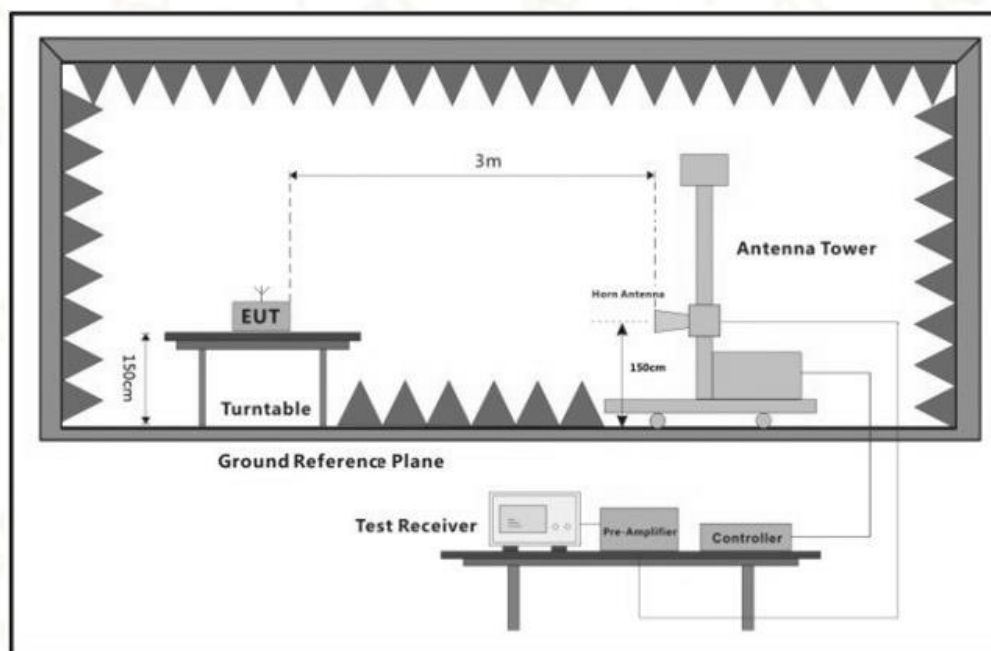
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The test setup for emission measurement above 1 GHz.



## 7.3 Spectrum Analyzer Setup

### Below 30MHz

Sweep Speed .....Auto  
IF Bandwidth..... 10kHz  
Video Bandwidth..... 10kHz  
Resolution Bandwidth ..... 10kHz

### 30MHz ~ 1GHz

Sweep Speed .....Auto  
Detector ..... PK  
Resolution Bandwidth..... 100kHz  
Video Bandwidth..... 300kHz

### Above 1GHz

Sweep Speed .....Auto  
Detector ..... PK  
Resolution Bandwidth..... 1MHz  
Video Bandwidth..... 3MHz  
Detector ..... Ave.  
Resolution Bandwidth..... 1MHz  
Video Bandwidth..... 10Hz

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# Test Report

No.: AJT250402021EB-3

## 7.4 Test Procedure

- 1.The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
- 2.The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3.EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4.Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5.And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6.Repeat above procedures until the measurements for all frequencies are complete.
- 7.The radiation measurements are performed in X, Y and Z axis positioning (X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), the worst condition was tested putting the eut in Z axis, so the worst data were shown as follow.
- 8.A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

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# Test Report

No.: AJT250402021EB-3

## 7.6 Summary of Test Results

Wifi:

Radiated Emissions Test (Below 1GHz)

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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# Test Report

No.: AJT250402021EB-3

## Radiated Emissions Test (30MHz - 1GHz)

|                |   |
|----------------|---|
| Operation Mode | TX mode                                   |
| Channel        | The Lowest Channel (2412MHz 11b)          |
| Test Condition | Ambient Temperature: 24°C Humidity: 59%RH |

| Frequency (MHz) | Peak (dBμV/m) | QP (dBμV/m) | QP Lim. (dBμV/m) | Margin (dB) | Angle (°) | Height (m) | Polarization |
|-----------------|---------------|-------------|------------------|-------------|-----------|------------|--------------|
| 53.183          | 16.77         | /           | 40.00            | -23.23      | 115.00    | 1.49       | Horizontal   |
| 102.265         | 14.67         | /           | 43.50            | -28.83      | 35.00     | 1.49       | Horizontal   |
| 247.959         | 20.07         | /           | 46.00            | -25.93      | 161.00    | 1.49       | Horizontal   |
| 509.083         | 22.60         | /           | 46.00            | -23.40      | 256.00    | 1.49       | Horizontal   |
| 632.079         | 27.94         | /           | 46.00            | -18.06      | 246.00    | 1.49       | Horizontal   |
| 680.094         | 28.76         | /           | 46.00            | -17.24      | 187.00    | 1.49       | Horizontal   |
| 47.46           | 16.46         | /           | 40.00            | -23.54      | 0.00      | 1.50       | Vertical     |
| 102.459         | 15.12         | /           | 43.50            | -28.38      | 31.00     | 1.50       | Vertical     |
| 351.652         | 19.05         | /           | 46.00            | -26.95      | 72.00     | 1.50       | Vertical     |
| 501.517         | 21.55         | /           | 46.00            | -24.45      | 47.00     | 1.50       | Vertical     |
| 647.987         | 25.67         | /           | 46.00            | -20.33      | 37.00     | 1.50       | Vertical     |
| 909.208         | 29.13         | /           | 46.00            | -16.87      | 289.00    | 1.50       | Vertical     |

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

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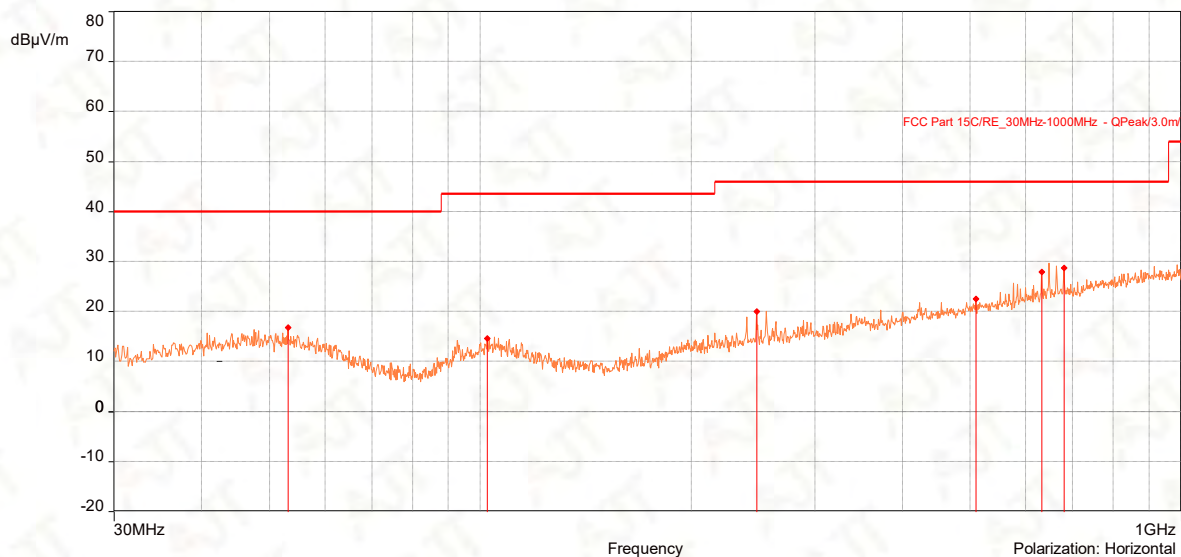




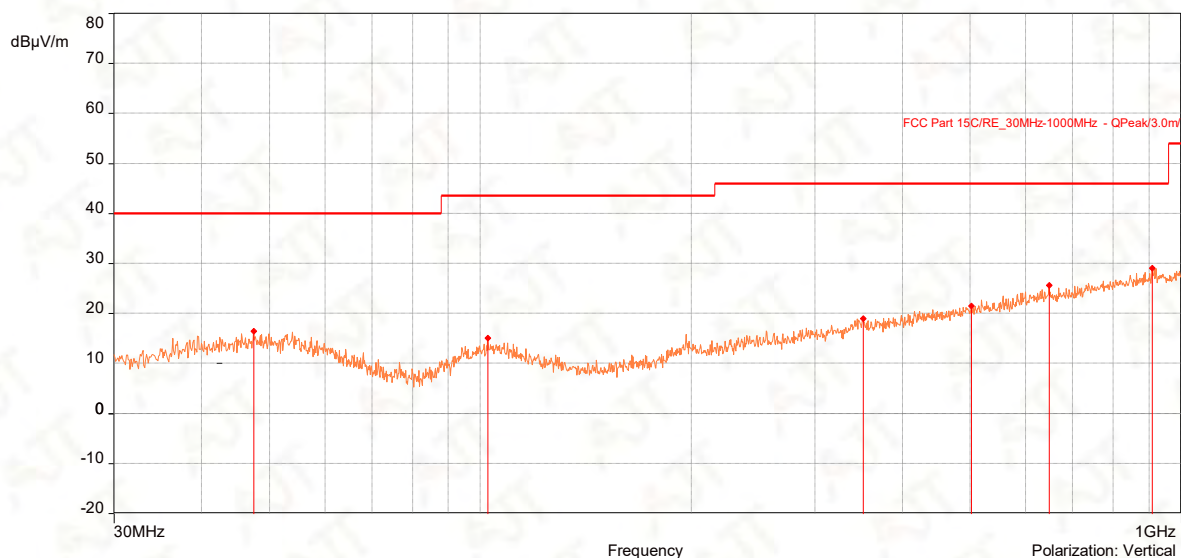
# Test Report

No.: AJT250402021EB-3

Test Graph:



Horizontal



Vertical

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# Test Report

No.: AJT250402021EB-3

## Radiated Emissions Test (Above 1GHz)

Test Condition Ambient Temperature: 24°C Humidity: 59%RH

|                 |                                     |                   |           |
|-----------------|-------------------------------------|-------------------|-----------|
| Channel         | The Lowest Channel<br>(2412MHz 11b) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                          | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)                                 | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2399.97  | 67.36                         | 74.00             | -6.64          | 1.50          | 330.00       | Horizontal   | -0.10              | Peak     |
| 2399.97  | 50.15                         | 54.00             | -3.85          | 1.50          | 0.00         | Horizontal   | -0.10              | Average  |
| 4823.75  | 48.87                         | 74.00             | -25.13         | 1.99          | 126.00       | Horizontal   | 6.00               | Peak     |
| 7236.45  | 46.80                         | 74.00             | -27.20         | 1.99          | 216.00       | Horizontal   | 10.66              | Peak     |

The maximized peak measured value complies with the average limit.

| Antenna Polarity & Test Distance: Vertical At 3m |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)                               | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2399.84  | 59.48                         | 74.00             | -14.52         | 1.50          | 0.00         | Vertical     | -0.10              | Peak     |
| 2399.97  | 40.19                         | 54.00             | -13.81         | 1.50          | 287.00       | Vertical     | -0.10              | Average  |
| 4824.9   | 48.20                         | 74.00             | -25.80         | 1.01          | 164.00       | Vertical     | 5.98               | Peak     |
| 7236.45  | 45.79                         | 74.00             | -28.21         | 2.00          | 74.00        | Vertical     | 10.66              | Peak     |

The maximized peak measured value complies with the average limit.

### Remarks:

1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The emission levels of other frequencies were more than 20dB margin against the limit.
4. Margin = Emission level - Limit value
5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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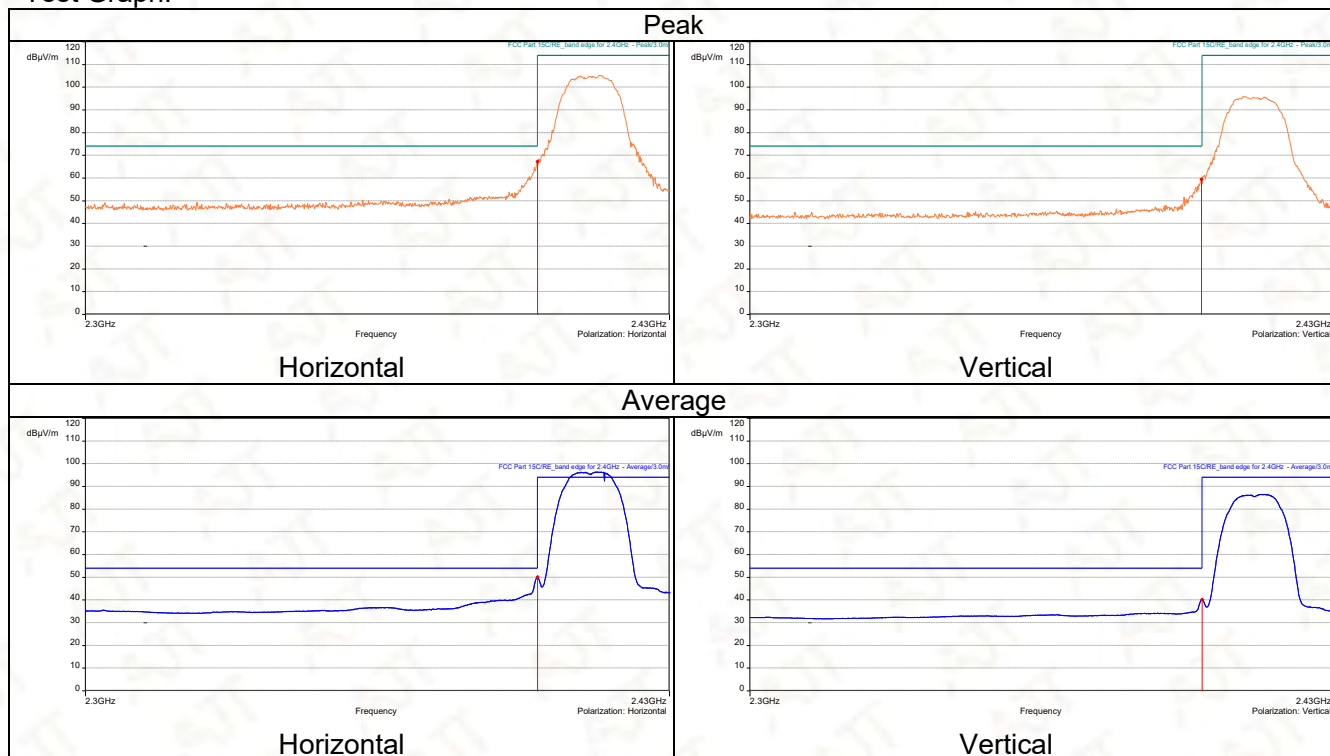




# Test Report

No.: AJT250402021EB-3

Test Graph:



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# Test Report

No.: AJT250402021EB-3

|                 |                                     |                   |           |
|-----------------|-------------------------------------|-------------------|-----------|
| Channel         | The Lowest Channel<br>(2412MHz 11g) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                          | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)                                 | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2399.97  | 63.30                         | 74.00             | -10.70         | 1.50          | 332.00       | Horizontal   | -0.10              | Peak     |
| 2399.97  | 44.02                         | 54.00             | -9.98          | 1.50          | 299.00       | Horizontal   | -0.10              | Average  |
| 4823.75  | 48.05                         | 74.00             | -25.95         | 1.00          | 124.00       | Horizontal   | 6.00               | Peak     |
| 7241.05  | 51.58                         | 74.00             | -22.42         | 1.99          | 211.00       | Horizontal   | 10.66              | Peak     |

The maximized peak measured value complies with the average limit.

| Antenna Polarity & Test Distance: Vertical At 3m |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)                               | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2399.97  | 50.04                         | 74.00             | -23.96         | 1.50          | 299.00       | Vertical     | -0.10              | Peak     |
| 2399.97  | 34.82                         | 54.00             | -19.18         | 1.50          | 0.00         | Vertical     | -0.10              | Average  |
| 4827.2   | 48.55                         | 74.00             | -25.45         | 2.00          | 146.00       | Vertical     | 5.95               | Peak     |
| 7231.85  | 50.38                         | 74.00             | -23.62         | 1.01          | 107.00       | Vertical     | 10.66              | Peak     |

The maximized peak measured value complies with the average limit.

#### Remarks:

1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The emission levels of other frequencies were more than 20dB margin against the limit.
4. Margin = Emission level - Limit value
5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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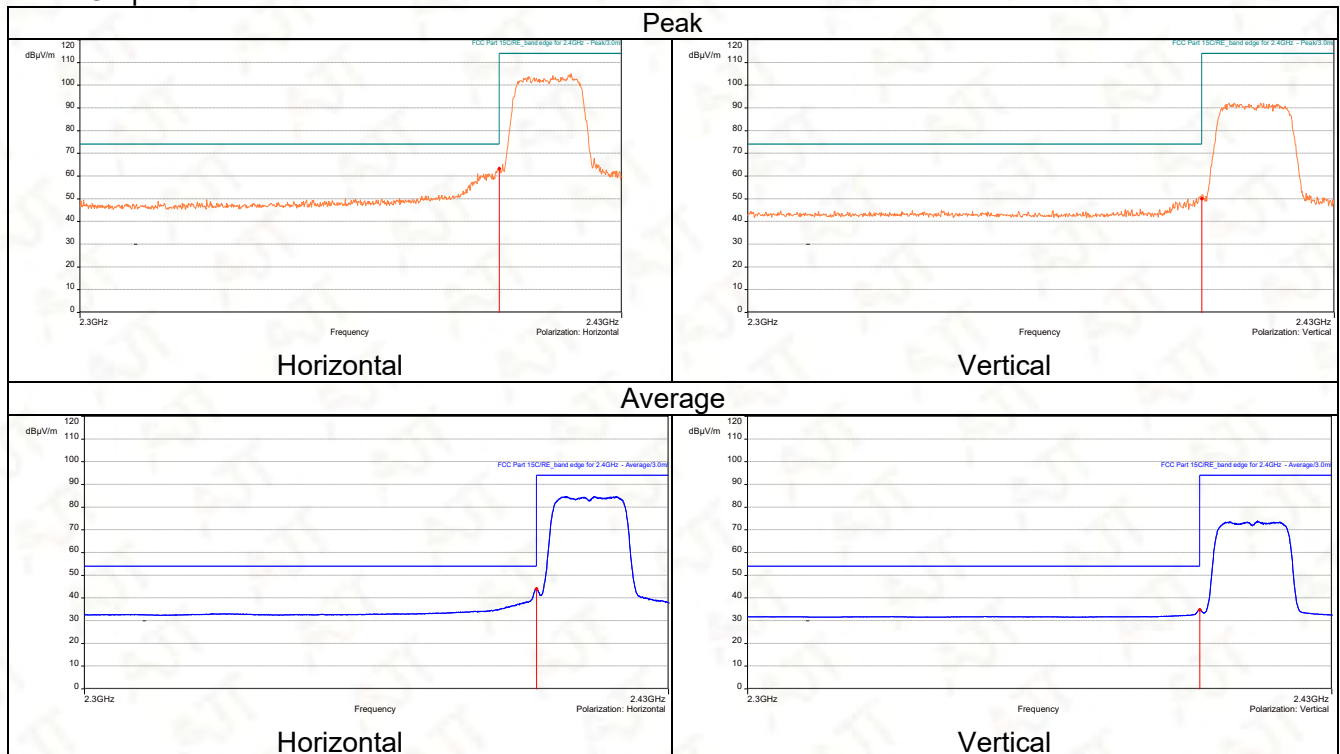




# Test Report

No.: AJT250402021EB-3

Test Graph:



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# Test Report

No.: AJT250402021EB-3

|                 |                                     |                   |           |
|-----------------|-------------------------------------|-------------------|-----------|
| Channel         | The Lowest Channel<br>(2412MHz 11n) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                          | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m   |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2399.06  | 63.55                         | 74.00             | -10.45         | 1.50          | 60.00        | Horizontal   | -0.11              | Peak     |
| 2399.84  | 43.00                         | 54.00             | -11.00         | 1.50          | 223.00       | Horizontal   | -0.10              | Average  |
| 4823.75  | 46.66                         | 74.00             | -27.34         | 1.99          | 322.00       | Horizontal   | 6.00               | Peak     |
| 7236.45  | 47.38                         | 74.00             | -26.62         | 1.99          | 191.00       | Horizontal   | 10.66              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| Antenna Polarity & Test Distance: Vertical At 3m   |                               |                   |                |               |              |              |                    |          |
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2399.58  | 53.37                         | 74.00             | -20.63         | 1.50          | 166.00       | Vertical     | -0.10              | Peak     |
| 2399.97  | 36.49                         | 54.00             | -17.51         | 1.50          | 0.00         | Vertical     | -0.10              | Average  |
| 4820.3   | 46.06                         | 74.00             | -27.94         | 1.01          | 156.00       | Vertical     | 6.05               | Peak     |
| 7239.9   | 51.46                         | 74.00             | -22.54         | 1.01          | 118.00       | Vertical     | 10.66              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| <b>Remarks:</b><br>1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)<br>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)<br>3. The emission levels of other frequencies were more than 20dB margin against the limit.<br>4. Margin = Emission level - Limit value<br>5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement. |                               |                   |                |               |              |              |                    |          |

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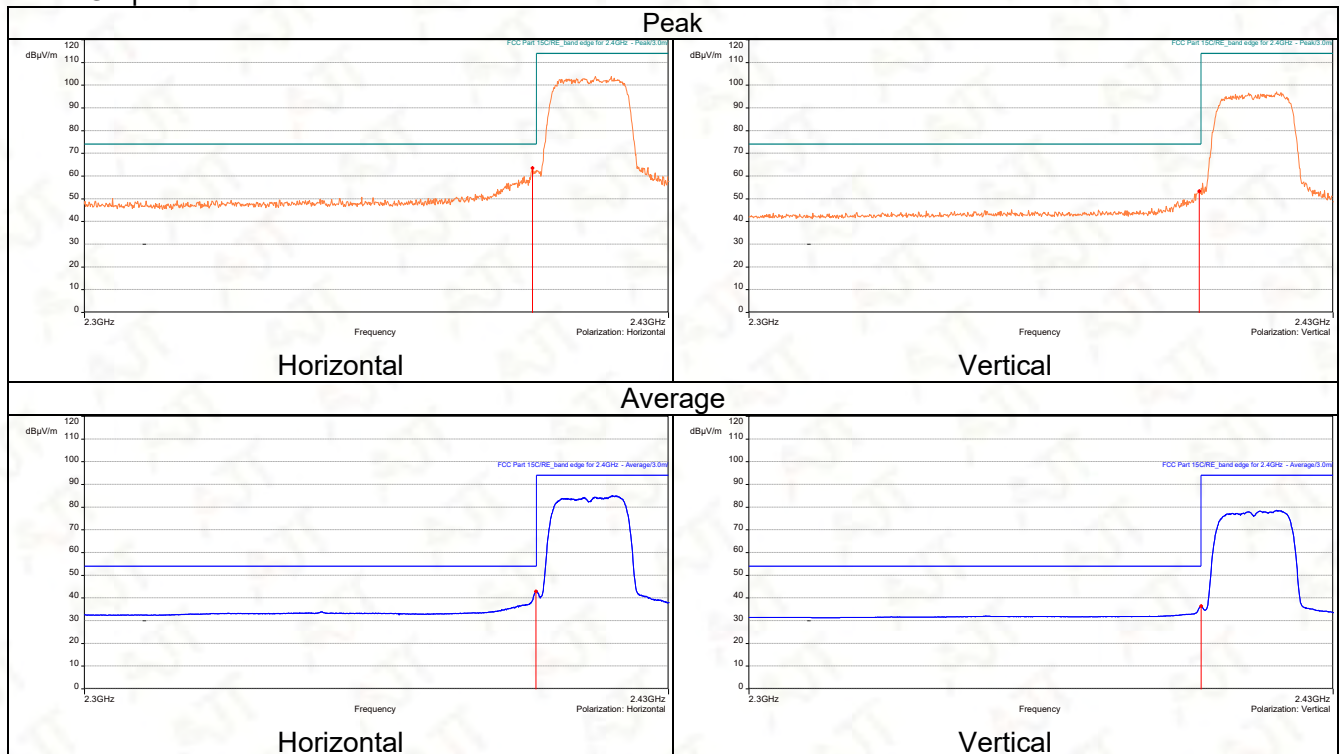




# Test Report

No.: AJT250402021EB-3

Test Graph:



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# Test Report

No.: AJT250402021EB-3

|                 |                                     |                   |           |
|-----------------|-------------------------------------|-------------------|-----------|
| Channel         | The Middle Channel<br>(2437MHz 11b) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                          | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m   |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 4874.35  | 47.40                         | 74.00             | -26.60         | 1.99          | 164.00       | Horizontal   | 5.53               | Peak     |
| 7311.2   | 46.70                         | 74.00             | -27.30         | 1.99          | 281.00       | Horizontal   | 10.68              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| Antenna Polarity & Test Distance: Vertical At 3m   |                               |                   |                |               |              |              |                    |          |
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 4874.35  | 51.90                         | 74.00             | -22.10         | 1.01          | 7.00         | Vertical     | 5.53               | Peak     |
| 7311.2   | 48.84                         | 74.00             | -25.16         | 2.00          | 122.00       | Vertical     | 10.68              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| <b>Remarks:</b><br>1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)<br>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)<br>3. The emission levels of other frequencies were more than 20dB margin against the limit.<br>4. Margin = Emission level - Limit value<br>5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement. |                               |                   |                |               |              |              |                    |          |

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# Test Report

No.: AJT250402021EB-3

|                 |                                     |                   |           |
|-----------------|-------------------------------------|-------------------|-----------|
| Channel         | The Middle Channel<br>(2437MHz 11g) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                          | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m   |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 4876.65  | 45.35                         | 74.00             | -28.65         | 1.00          | 265.00       | Horizontal   | 5.51               | Peak     |
| 7304.3   | 49.96                         | 74.00             | -24.04         | 1.99          | 210.00       | Horizontal   | 10.67              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| Antenna Polarity & Test Distance: Vertical At 3m   |                               |                   |                |               |              |              |                    |          |
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 4870.9   | 45.79                         | 74.00             | -28.21         | 1.01          | 2.00         | Vertical     | 5.55               | Peak     |
| 7305.45  | 50.07                         | 74.00             | -23.93         | 1.01          | 144.00       | Vertical     | 10.67              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| <b>Remarks:</b><br>1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)<br>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)<br>3. The emission levels of other frequencies were more than 20dB margin against the limit.<br>4. Margin = Emission level - Limit value<br>5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement. |                               |                   |                |               |              |              |                    |          |

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# Test Report

No.: AJT250402021EB-3

|                 |                                     |                   |           |
|-----------------|-------------------------------------|-------------------|-----------|
| Channel         | The Middle Channel<br>(2437MHz 11n) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                          | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m   |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 4877.8   | 44.77                         | 74.00             | -29.23         | 1.00          | 235.00       | Horizontal   | 5.50               | Peak     |
| 7311.2   | 47.20                         | 74.00             | -26.80         | 1.00          | 107.00       | Horizontal   | 10.68              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| Antenna Polarity & Test Distance: Vertical At 3m   |                               |                   |                |               |              |              |                    |          |
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 4870.9   | 46.92                         | 74.00             | -27.08         | 1.01          | 46.00        | Vertical     | 5.55               | Peak     |
| 7311.2   | 47.79                         | 74.00             | -26.21         | 1.01          | 88.00        | Vertical     | 10.68              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| <b>Remarks:</b><br>1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)<br>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)<br>3. The emission levels of other frequencies were more than 20dB margin against the limit.<br>4. Margin = Emission level - Limit value<br>5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement. |                               |                   |                |               |              |              |                    |          |

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# Test Report

No.: AJT250402021EB-3

|                 |                                      |                   |           |
|-----------------|--------------------------------------|-------------------|-----------|
| Channel         | The Highest Channel<br>(2462MHz 11b) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                           | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m   |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2486.97  | 58.51                         | 74.00             | -15.49         | 1.50          | 286.00       | Horizontal   | -0.11              | Peak     |
| 2487.63  | 42.89                         | 54.00             | -11.11         | 1.50          | 298.00       | Horizontal   | -0.11              | Average  |
| 4923.8   | 47.89                         | 74.00             | -26.11         | 1.00          | 240.00       | Horizontal   | 5.63               | Peak     |
| 7385.95  | 48.33                         | 74.00             | -25.67         | 1.99          | 207.00       | Horizontal   | 10.96              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| Antenna Polarity & Test Distance: Vertical At 3m   |                               |                   |                |               |              |              |                    |          |
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2491.59  | 47.90                         | 74.00             | -26.10         | 1.50          | 11.00        | Vertical     | -0.12              | Peak     |
| 2487.52  | 34.76                         | 54.00             | -19.24         | 1.50          | 62.00        | Vertical     | -0.11              | Average  |
| 4923.8   | 52.87                         | 74.00             | -21.13         | 1.01          | 19.00        | Vertical     | 5.63               | Peak     |
| 7389.4   | 48.64                         | 74.00             | -25.36         | 2.00          | 149.00       | Vertical     | 10.97              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| <b>Remarks:</b><br>1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)<br>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)<br>3. The emission levels of other frequencies were more than 20dB margin against the limit.<br>4. Margin = Emission level - Limit value<br>5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement. |                               |                   |                |               |              |              |                    |          |

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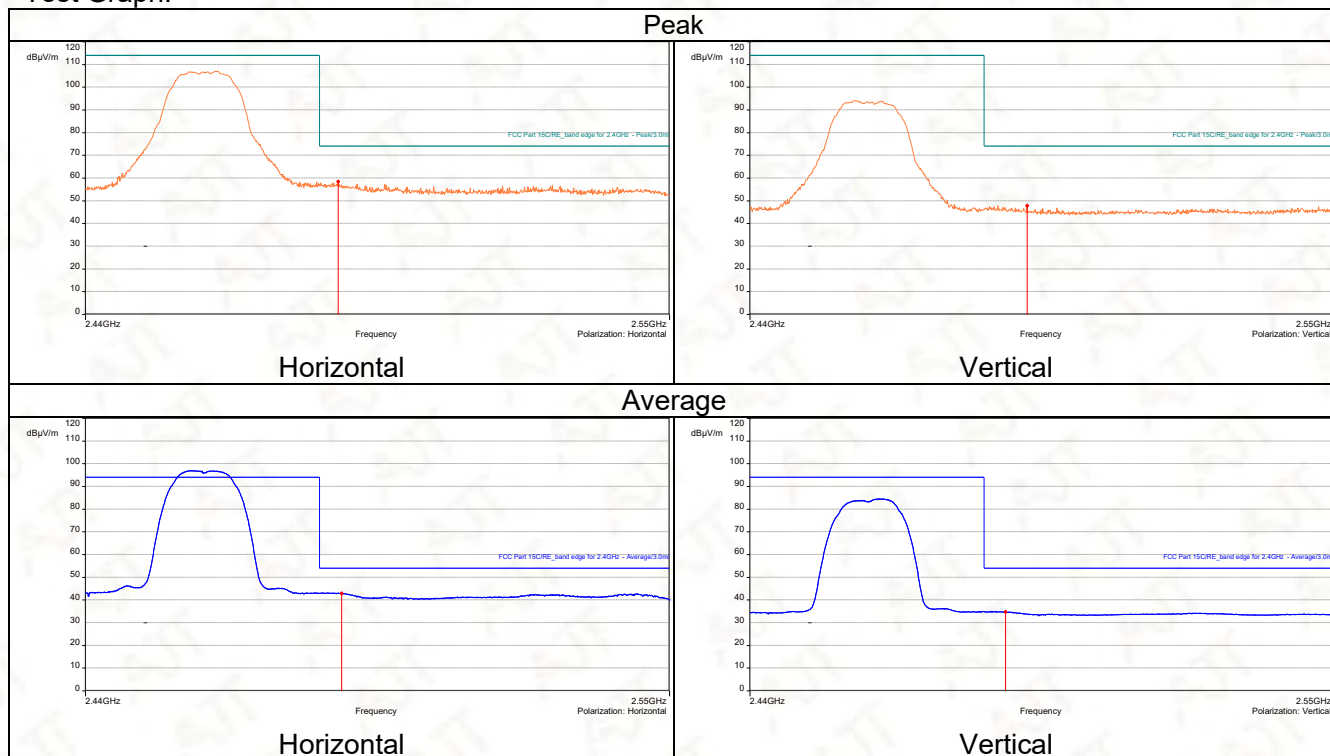




# Test Report

No.: AJT250402021EB-3

Test Graph:



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# Test Report

No.: AJT250402021EB-3

|                 |                                      |                   |           |
|-----------------|--------------------------------------|-------------------|-----------|
| Channel         | The Highest Channel<br>(2462MHz 11g) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                           | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m |                                     |                         |                |               |                         |              |                    |          |
|--|-------------------------------------|-------------------------|----------------|---------------|-------------------------|--------------|--------------------|----------|
| Frequency<br>(MHz)                                 | Emission<br>Level<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>( $^{\circ}$ ) | Polarization | Correction<br>(dB) | Detector |
| 2486.09  | 57.30                               | 74.00                   | -16.70         | 1.50          | 305.00                  | Horizontal   | -0.10              | Peak     |
| 2487.74  | 36.74                               | 54.00                   | -17.26         | 1.50          | 253.00                  | Horizontal   | -0.11              | Average  |
| 4921.5   | 44.51                               | 74.00                   | -29.49         | 1.00          | 61.00                   | Horizontal   | 5.61               | Peak     |
| 7384.8   | 50.61                               | 74.00                   | -23.39         | 1.99          | 212.00                  | Horizontal   | 10.95              | Peak     |

The maximized peak measured value complies with the average limit.

| Antenna Polarity & Test Distance: Vertical At 3m |                                     |                         |                |               |                         |              |                    |          |
|--|-------------------------------------|-------------------------|----------------|---------------|-------------------------|--------------|--------------------|----------|
| Frequency<br>(MHz)                               | Emission<br>Level<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>( $^{\circ}$ ) | Polarization | Correction<br>(dB) | Detector |
| 2485.21  | 48.14                               | 74.00                   | -25.86         | 1.50          | 199.00                  | Vertical     | -0.10              | Peak     |
| 2488.84  | 32.32                               | 54.00                   | -21.68         | 1.50          | 43.00                   | Vertical     | -0.11              | Average  |
| 4928.4   | 47.18                               | 74.00                   | -26.82         | 1.01          | 55.00                   | Vertical     | 5.65               | Peak     |
| 7379.05  | 49.18                               | 74.00                   | -24.82         | 1.01          | 134.00                  | Vertical     | 10.93              | Peak     |

The maximized peak measured value complies with the average limit.

#### Remarks:

1. Emission level (dB $\mu$ V/m) = Raw Value (dB $\mu$ V) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The emission levels of other frequencies were more than 20dB margin against the limit.
4. Margin = Emission level - Limit value
5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

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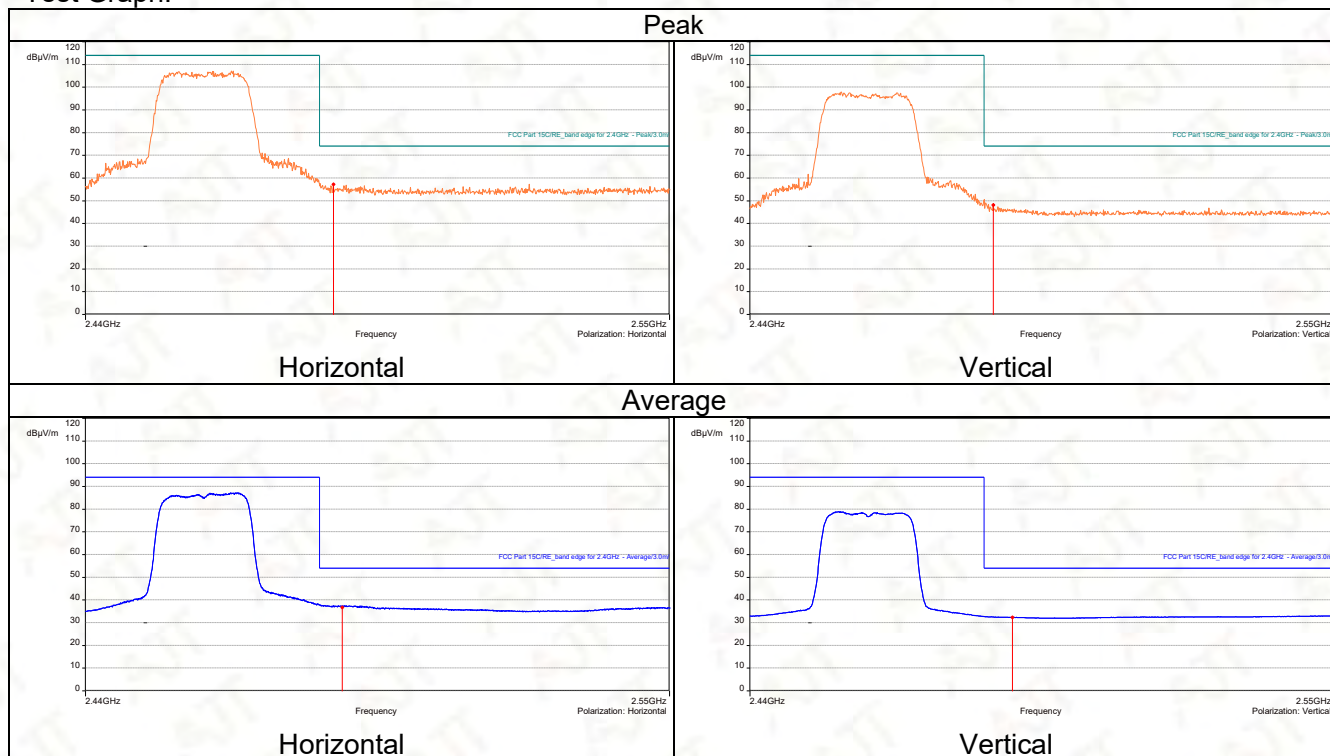




# Test Report

No.: AJT250402021EB-3

Test Graph:



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# Test Report

No.: AJT250402021EB-3

|                 |                                      |                   |           |
|-----------------|--------------------------------------|-------------------|-----------|
| Channel         | The Highest Channel<br>(2462MHz 11n) | Detector Function | Peak (PK) |
| Frequency Range | Above 1GHz                           | Result            | PASS      |

| Antenna Polarity & Test Distance: Horizontal At 3m   |                               |                   |                |               |              |              |                    |          |
|--|-------------------------------|-------------------|----------------|---------------|--------------|--------------|--------------------|----------|
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2484.33  | 58.50                         | 74.00             | -15.50         | 1.50          | 295.00       | Horizontal   | -0.10              | Peak     |
| 2486.64  | 37.10                         | 54.00             | -16.90         | 1.50          | 253.00       | Horizontal   | -0.10              | Average  |
| 4923.8   | 41.63                         | 74.00             | -32.37         | 1.99          | 110.00       | Horizontal   | 5.63               | Peak     |
| 7385.95  | 46.02                         | 74.00             | -27.98         | 1.00          | 219.00       | Horizontal   | 10.96              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| Antenna Polarity & Test Distance: Vertical At 3m   |                               |                   |                |               |              |              |                    |          |
| Frequency<br>(MHz)   | Emission<br>Level<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Height<br>(m) | Angle<br>(°) | Polarization | Correction<br>(dB) | Detector |
| 2484.22  | 48.45                         | 74.00             | -25.55         | 1.50          | 27.00        | Vertical     | -0.10              | Peak     |
| 2486.64  | 32.26                         | 54.00             | -21.74         | 1.50          | 43.00        | Vertical     | -0.10              | Average  |
| 4923.8   | 42.02                         | 74.00             | -31.98         | 2.00          | 290.00       | Vertical     | 5.63               | Peak     |
| 7385.95  | 46.11                         | 74.00             | -27.89         | 1.01          | 33.00        | Vertical     | 10.96              | Peak     |
| The maximized peak measured value complies with the average limit.   |                               |                   |                |               |              |              |                    |          |
| <b>Remarks:</b><br>1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m)<br>2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)<br>3. The emission levels of other frequencies were more than 20dB margin against the limit.<br>4. Margin = Emission level - Limit value<br>5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement. |                               |                   |                |               |              |              |                    |          |

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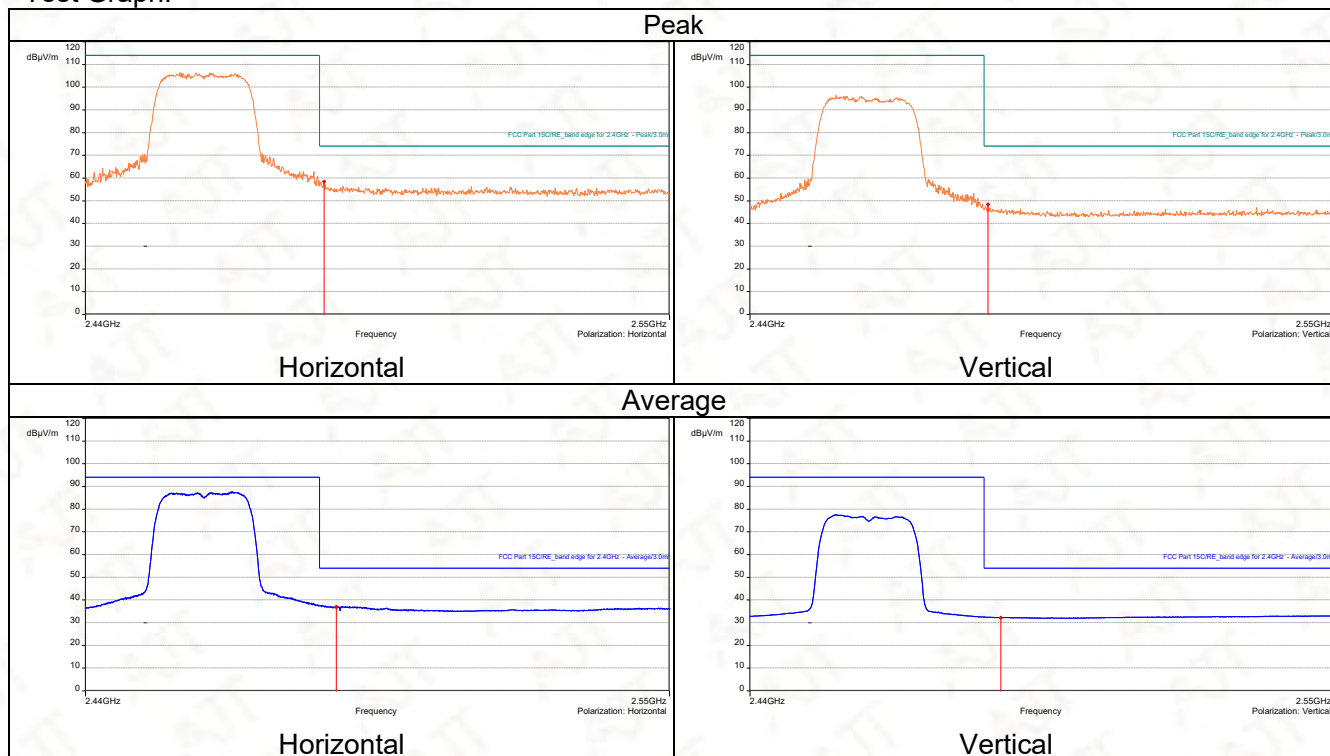




# Test Report

No.: AJT250402021EB-3

Test Graph:



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# Test Report

No.: AJT250402021EB-3

## 8 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247  
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;  
ANSI C63.10:2013  
Test Result: PASS  
Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 8.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
  - (a) Set instrument center frequency to DTS channel center frequency.
  - (b) Set the span to  $\approx 1.5$  times the DTS bandwidth.
  - (c) Set the RBW = 100 kHz.
  - (d) Set the VBW  $\approx [3 \times \text{RBW}]$ .
  - (e) Detector = peak.
  - (f) Sweep time = auto couple.
  - (g) Trace mode = max hold.
  - (h) Allow trace to fully stabilize.
  - (i) Use the peak marker function to determine the maximum PSD level.Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

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# Test Report

No.: AJT250402021EB-3

## 8.2 Test Result

| TestMode | Channel | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|----------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 11b      | 2412    | Reference          | -15.25            | -17.71          | ---            | PASS    |
|          |         | 30~1000            | -15.25            | -67.85          | $\leq -37.71$  | PASS    |
|          |         | 1000~26500         | -15.25            | -46.66          | $\leq -37.71$  | PASS    |
|          | 2437    | Reference          | -10.11            | -19.26          | ---            | PASS    |
|          |         | 30~1000            | -10.11            | -67.27          | $\leq -39.26$  | PASS    |
|          |         | 1000~26500         | -10.11            | -43.93          | $\leq -39.26$  | PASS    |
|          | 2462    | Reference          | -11.97            | -19.30          | ---            | PASS    |
|          |         | 30~1000            | -11.97            | -66.95          | $\leq -39.30$  | PASS    |
|          |         | 1000~26500         | -11.97            | -47.05          | $\leq -39.30$  | PASS    |
| 11g      | 2412    | Reference          | -17.36            | -18.90          | ---            | PASS    |
|          |         | 30~1000            | -17.36            | -66.69          | $\leq -38.90$  | PASS    |
|          |         | 1000~26500         | -17.36            | -46.74          | $\leq -38.90$  | PASS    |
|          | 2437    | Reference          | -12.48            | -20.27          | ---            | PASS    |
|          |         | 30~1000            | -12.48            | -67.62          | $\leq -40.27$  | PASS    |
|          |         | 1000~26500         | -12.48            | -46.44          | $\leq -40.27$  | PASS    |
|          | 2462    | Reference          | -14.33            | -20.42          | ---            | PASS    |
|          |         | 30~1000            | -14.33            | -67.76          | $\leq -40.42$  | PASS    |
|          |         | 1000~26500         | -14.33            | -45.91          | $\leq -40.42$  | PASS    |
| 11n20    | 2412    | Reference          | -17.79            | -18.76          | ---            | PASS    |
|          |         | 30~1000            | -17.79            | -67.46          | $\leq -38.76$  | PASS    |
|          |         | 1000~26500         | -17.79            | -46.85          | $\leq -38.76$  | PASS    |
|          | 2437    | Reference          | -12.66            | -19.97          | ---            | PASS    |
|          |         | 30~1000            | -12.66            | -66.89          | $\leq -39.97$  | PASS    |
|          |         | 1000~26500         | -12.66            | -47.15          | $\leq -39.97$  | PASS    |
|          | 2462    | Reference          | -14.77            | -20.20          | ---            | PASS    |
|          |         | 30~1000            | -14.77            | -67.51          | $\leq -40.20$  | PASS    |
|          |         | 1000~26500         | -14.77            | -46.02          | $\leq -40.20$  | PASS    |

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# Test Report

No.: AJT250402021EB-3

Test plot



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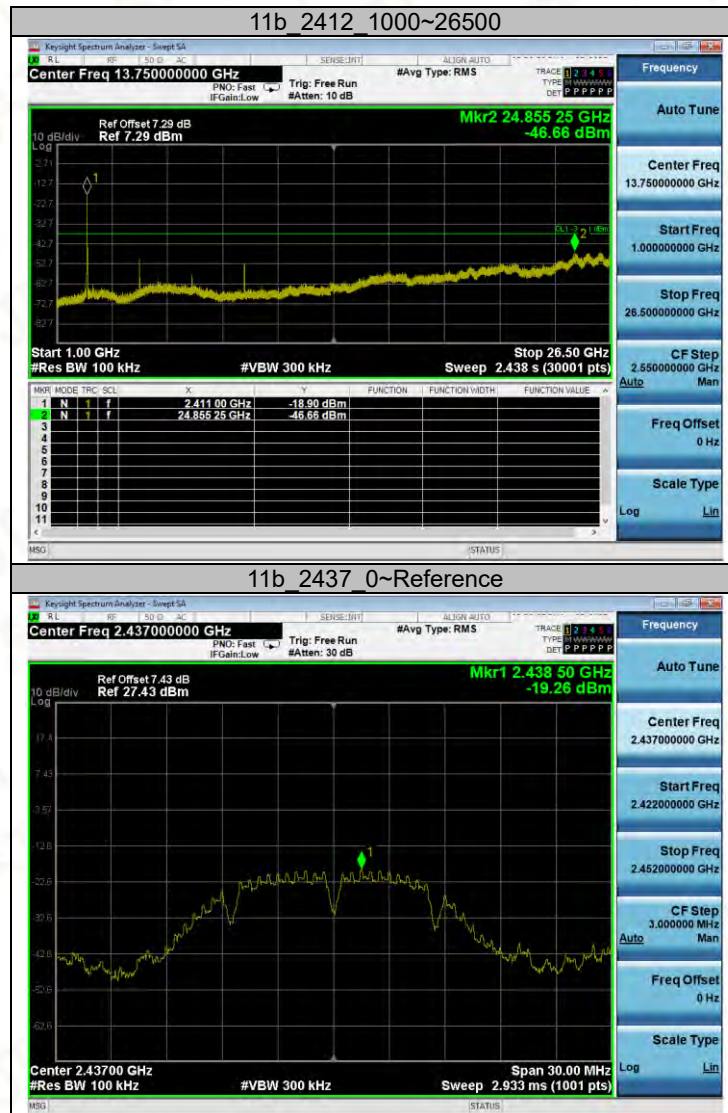






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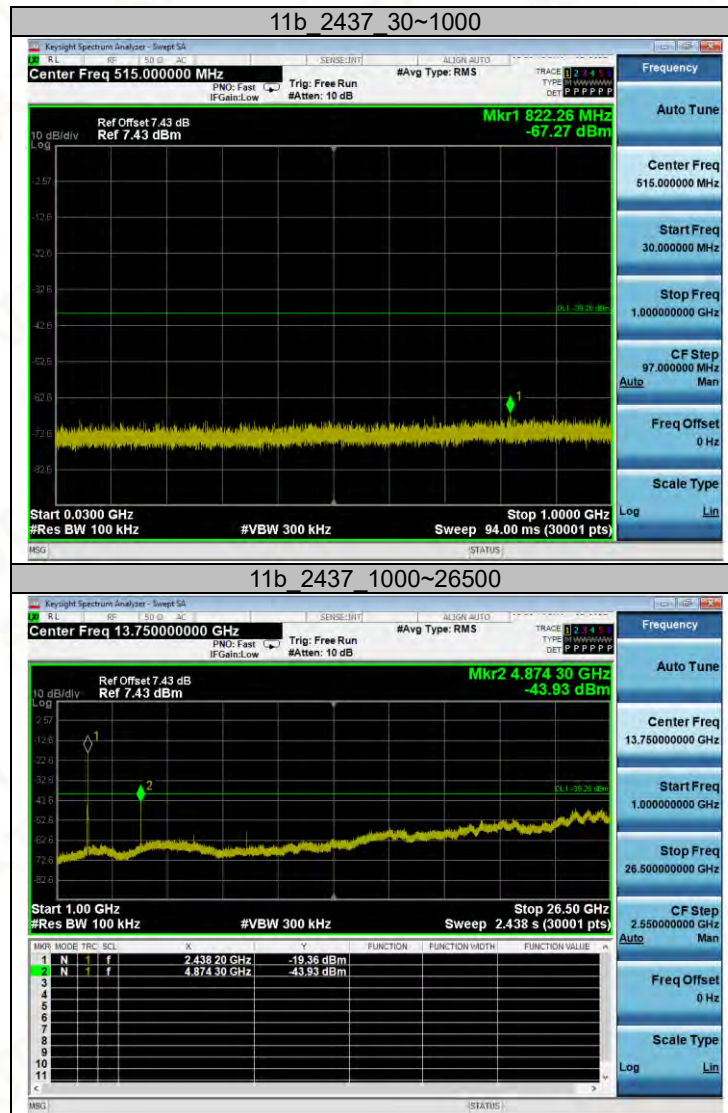
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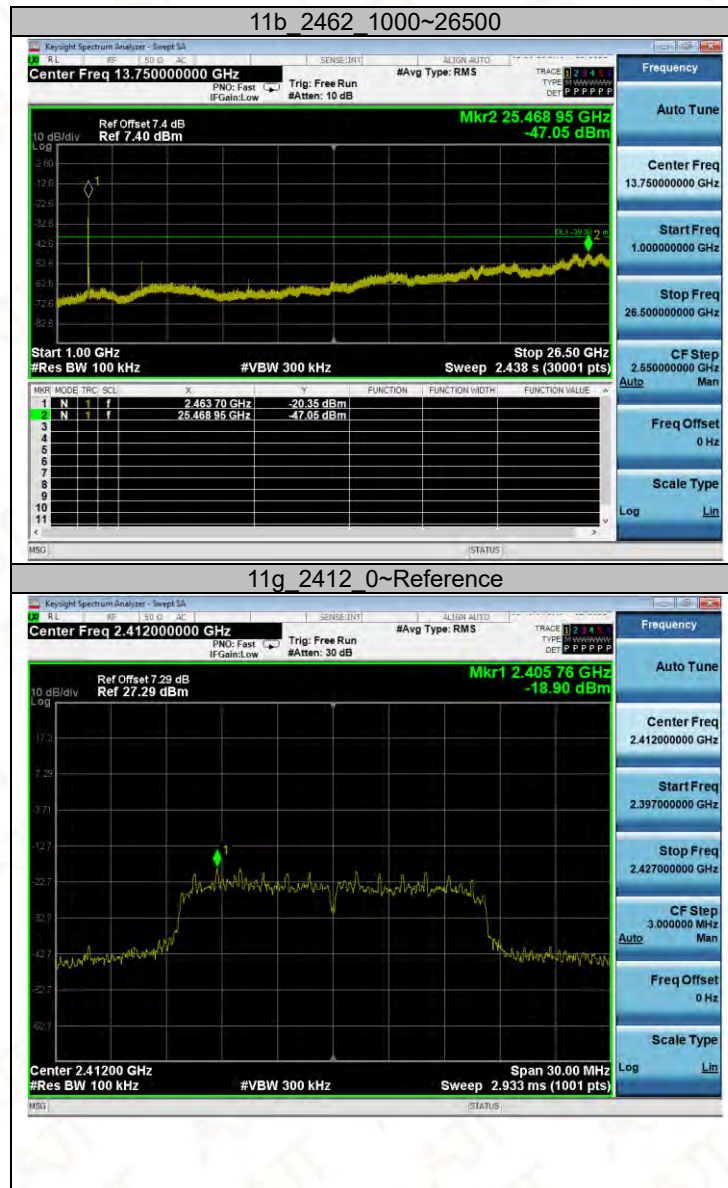
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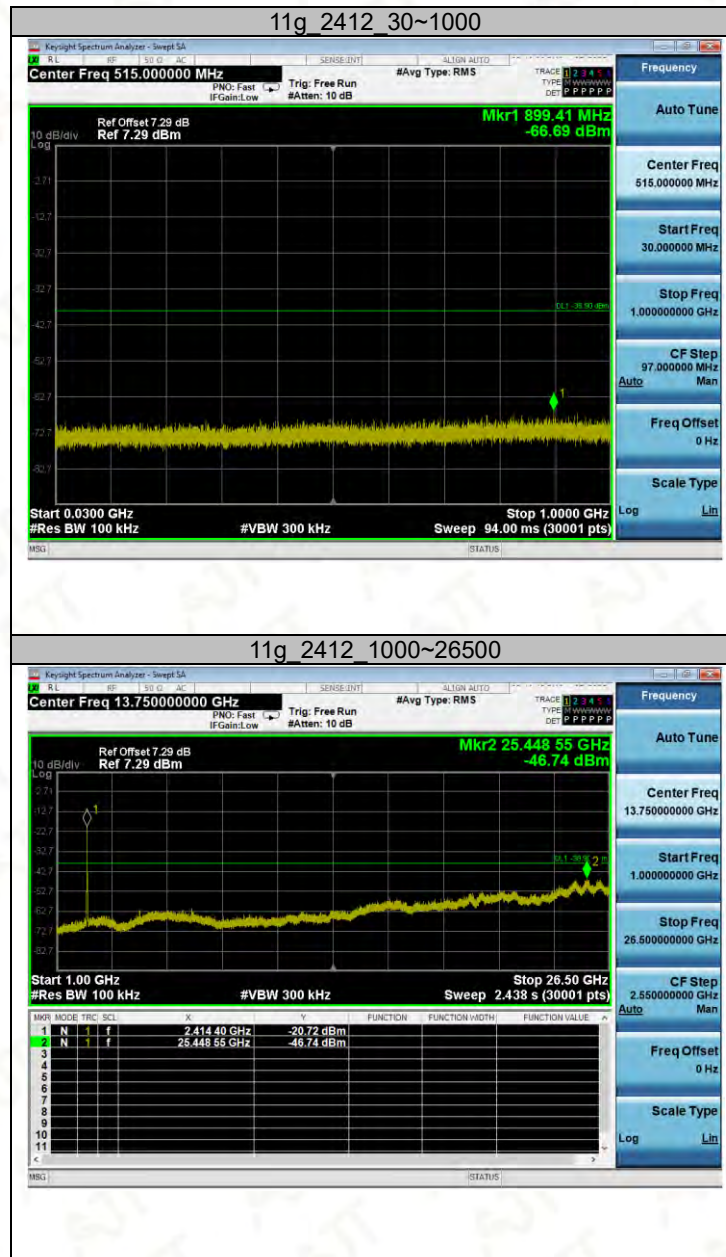






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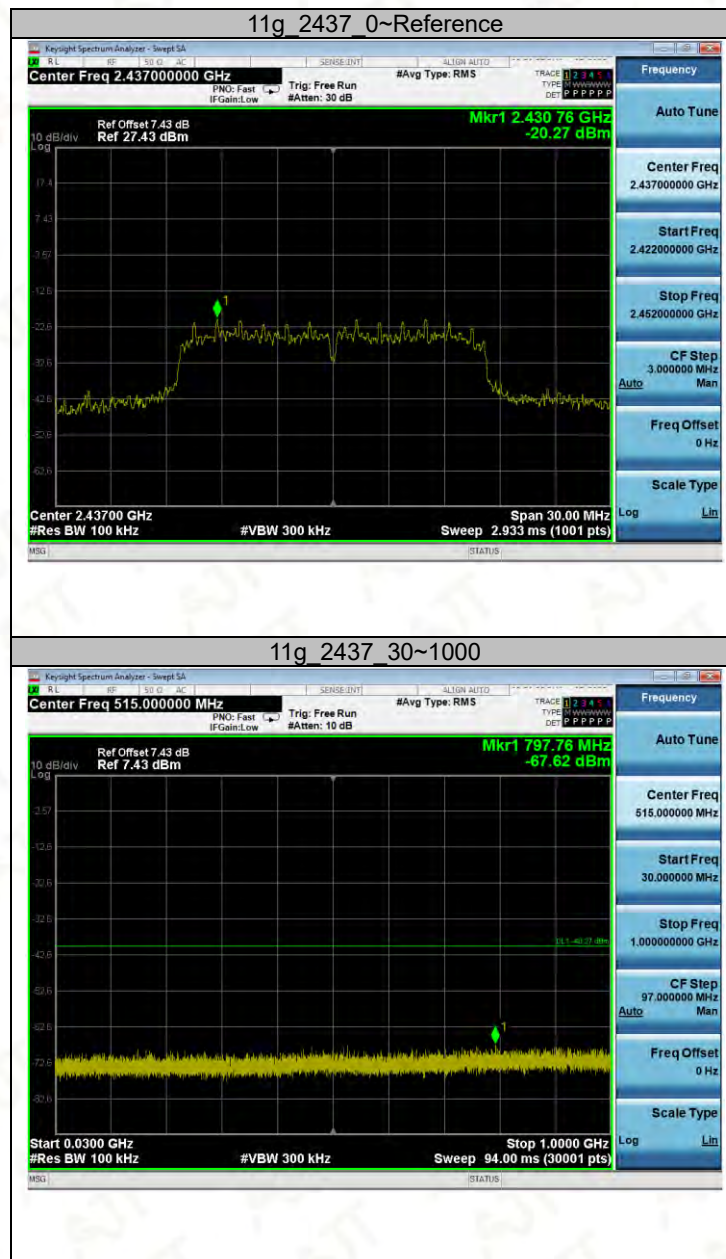
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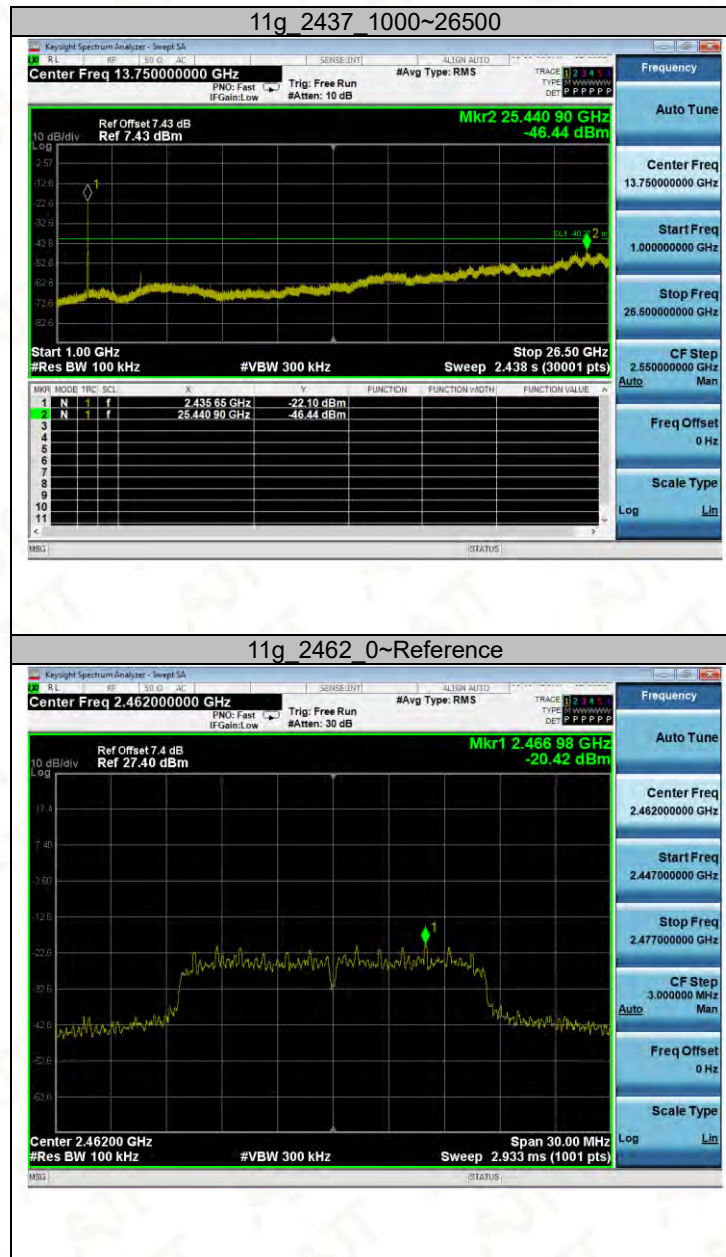






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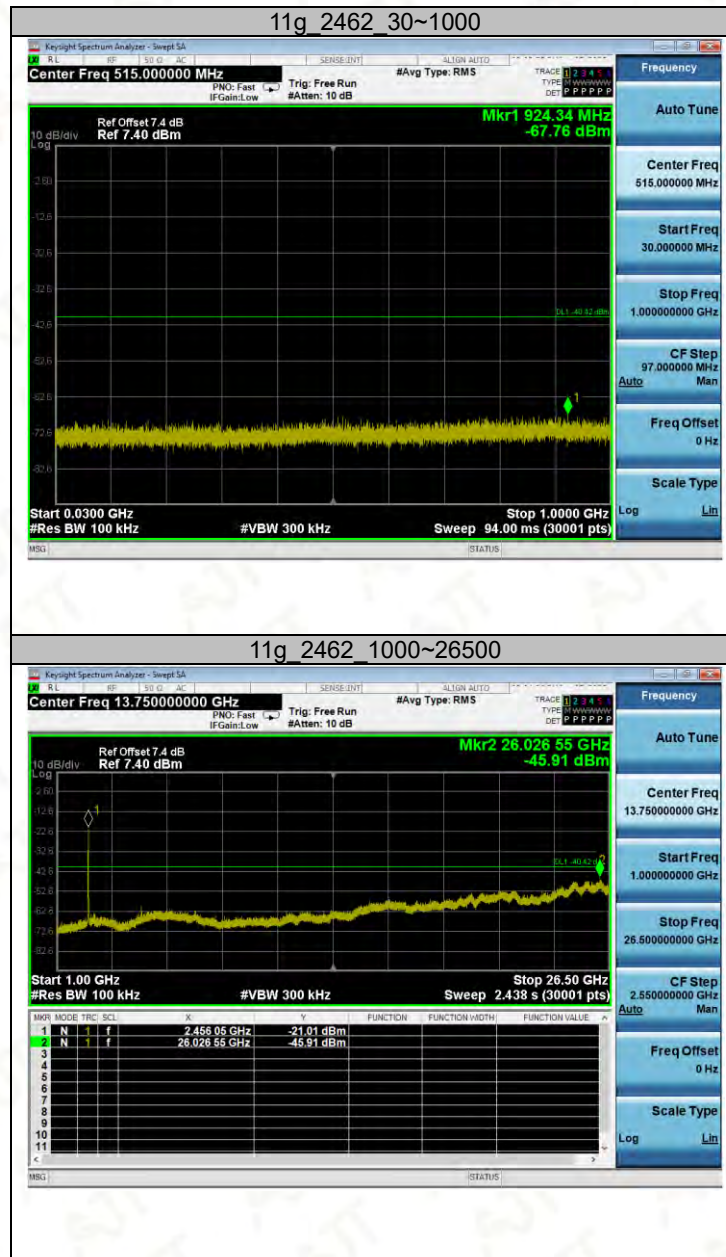
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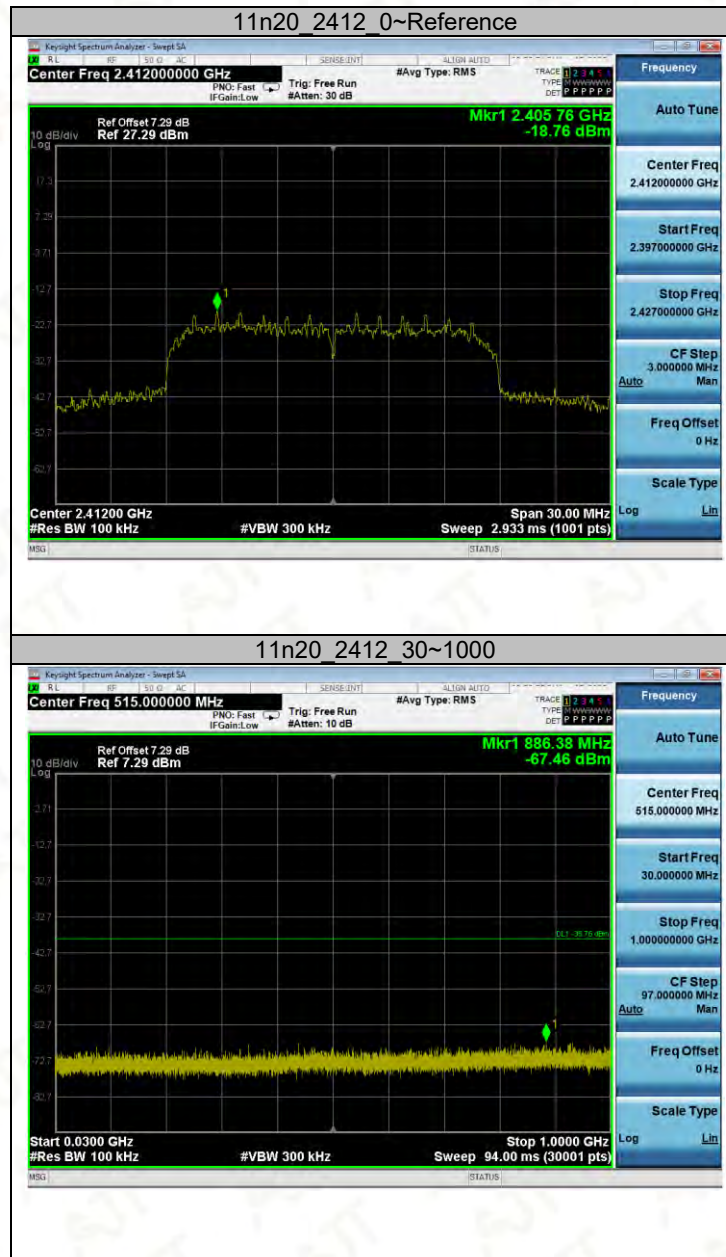






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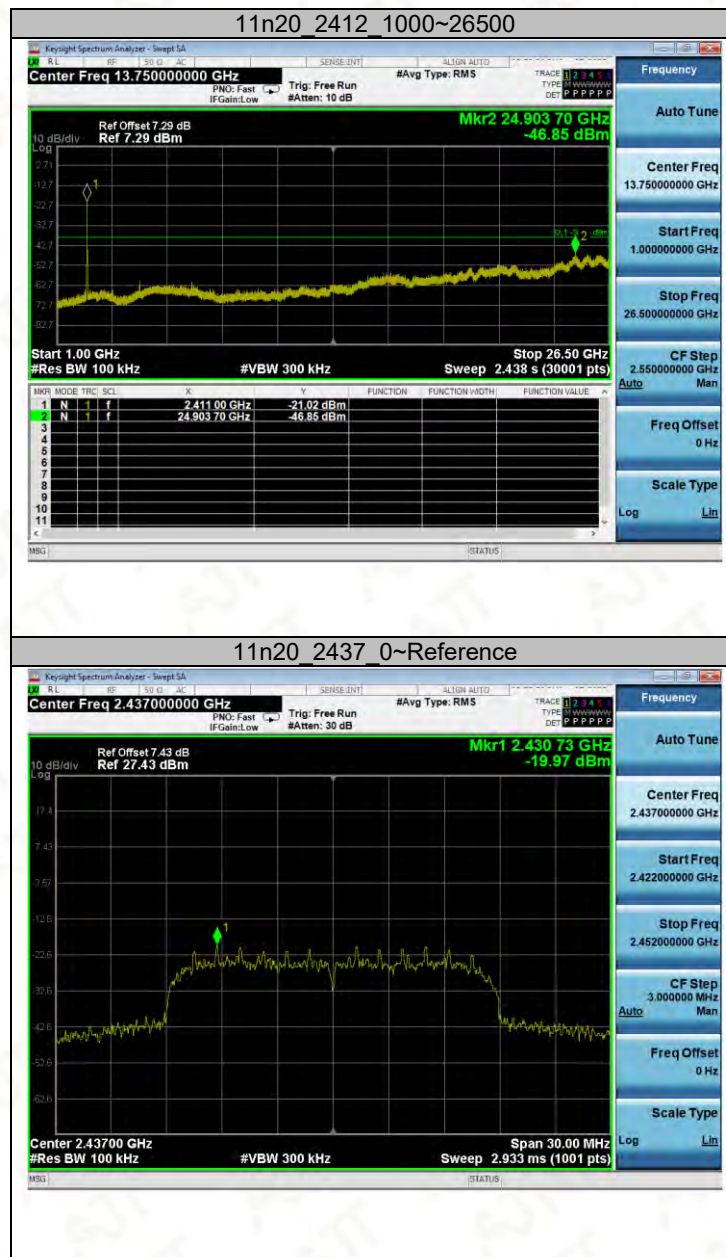
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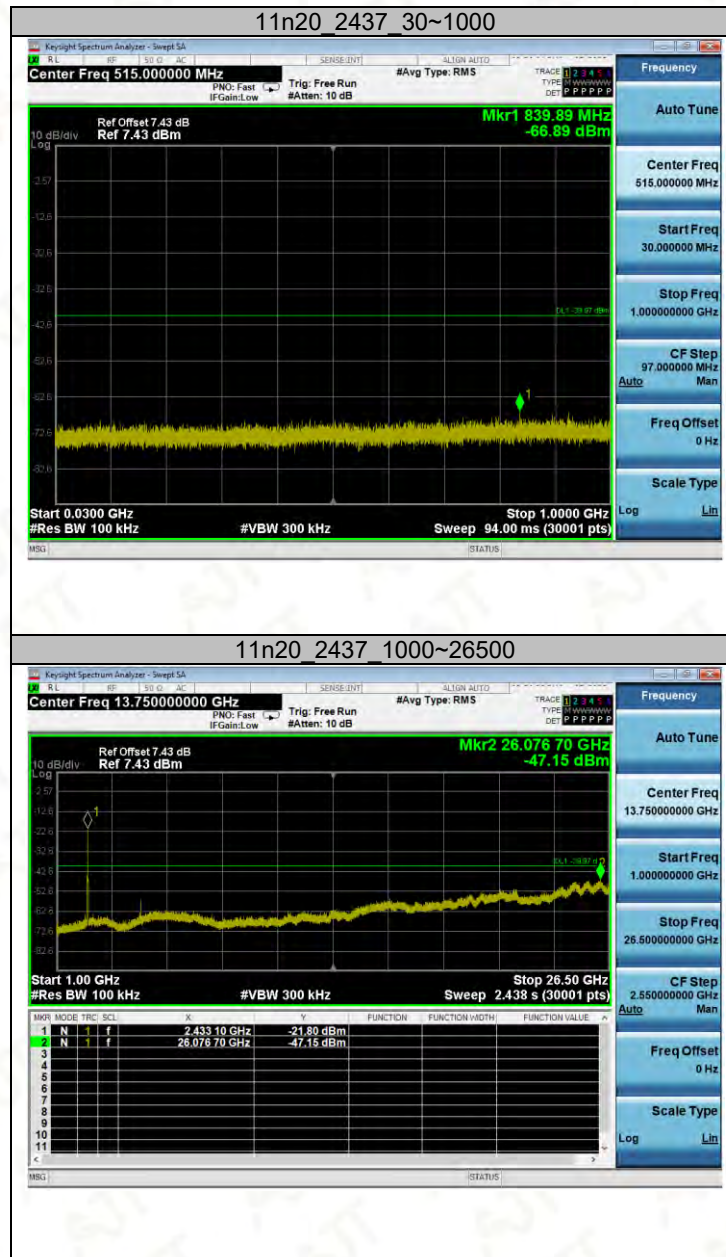






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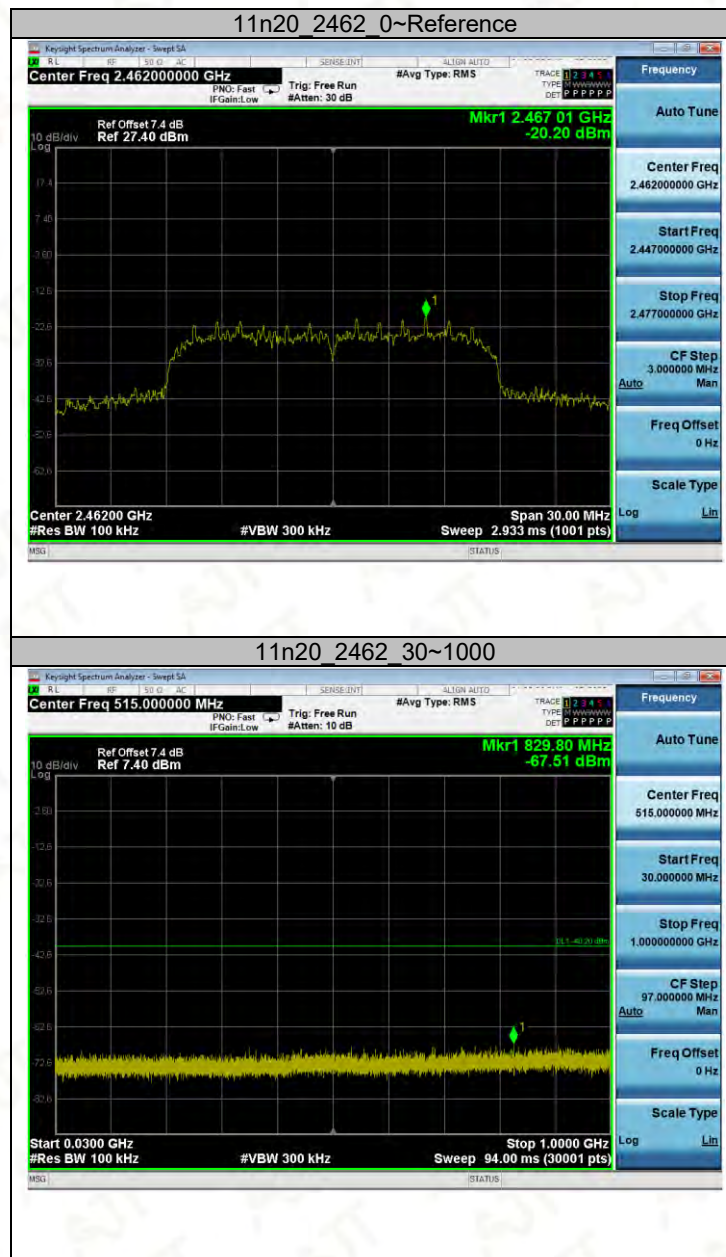
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11n20 2462 1000-2650

**Center Freq 13.750000000 GHz**

PNO: Fast IF Gain: low Trig: Free Run #Att: 10 dB #Avg Type: RMS

Ref Offset 7.4 dB Ref 7.40 dBm

Mkr2 25.434 95 GHz -46.02 dBm

Start 1.00 GHz #Res BW 300 kHz Sweep 2.438 s (30001 pts) Stop 26.50 GHz

| MKR | MODE | TRC | SCL | X             | Y          | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|---------------|------------|----------|----------------|----------------|
| 1   | N    | -1  | f   | 2460.30 GHz   | -22.53 dBm |          |                |                |
| 2   | N    | -1  | f   | 25.434 95 GHz | -46.02 dBm |          |                |                |
| 3   |      |     |     |               |            |          |                |                |
| 4   |      |     |     |               |            |          |                |                |
| 5   |      |     |     |               |            |          |                |                |
| 6   |      |     |     |               |            |          |                |                |
| 7   |      |     |     |               |            |          |                |                |
| 8   |      |     |     |               |            |          |                |                |
| 9   |      |     |     |               |            |          |                |                |
| 10  |      |     |     |               |            |          |                |                |
| 11  |      |     |     |               |            |          |                |                |

Auto Tune  
Frequency  
Center Freq 13.750000000 GHz  
Start Freq 1.000000000 GHz  
Stop Freq 26.500000000 GHz  
CF Step 2.550000000 GHz Man  
Auto  
Freq Offset 0 Hz  
Scale Type  
Log Lin





# Test Report

No.: AJT250402021EB-3

## 9 Duty Cycle

| TestMode | Channel | On Time [ms] | Transmission Period [ms] | Duty Cycle [%] | Duty cycle factor(dB) | Average Factor(dB) |
|----------|---------|--------------|--------------------------|----------------|-----------------------|--------------------|
| 11b      | 2412    | 12.44        | 12.51                    | 99.44          | 0.024                 | -0.049             |
|          | 2437    | 12.45        | 12.52                    | 99.44          | 0.024                 | -0.049             |
|          | 2462    | 12.44        | 12.80                    | 97.19          | 0.124                 | -0.248             |
| 11g      | 2412    | 0.24         | 0.62                     | 38.71          | 4.122                 | -8.244             |
|          | 2437    | 0.25         | 0.63                     | 39.68          | 4.014                 | -8.028             |
|          | 2462    | 0.24         | 0.62                     | 38.71          | 4.122                 | -8.244             |
| 11n20    | 2412    | 0.21         | 0.56                     | 37.50          | 4.260                 | -8.519             |
|          | 2437    | 0.63         | 5.62                     | 11.21          | 9.504                 | -19.008            |
|          | 2462    | 0.21         | 0.59                     | 35.59          | 4.486                 | -8.973             |

Remark:

Duty cycle=On Time/period

Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$

Average factor= $20 \cdot \log(\text{Duty cycle})$

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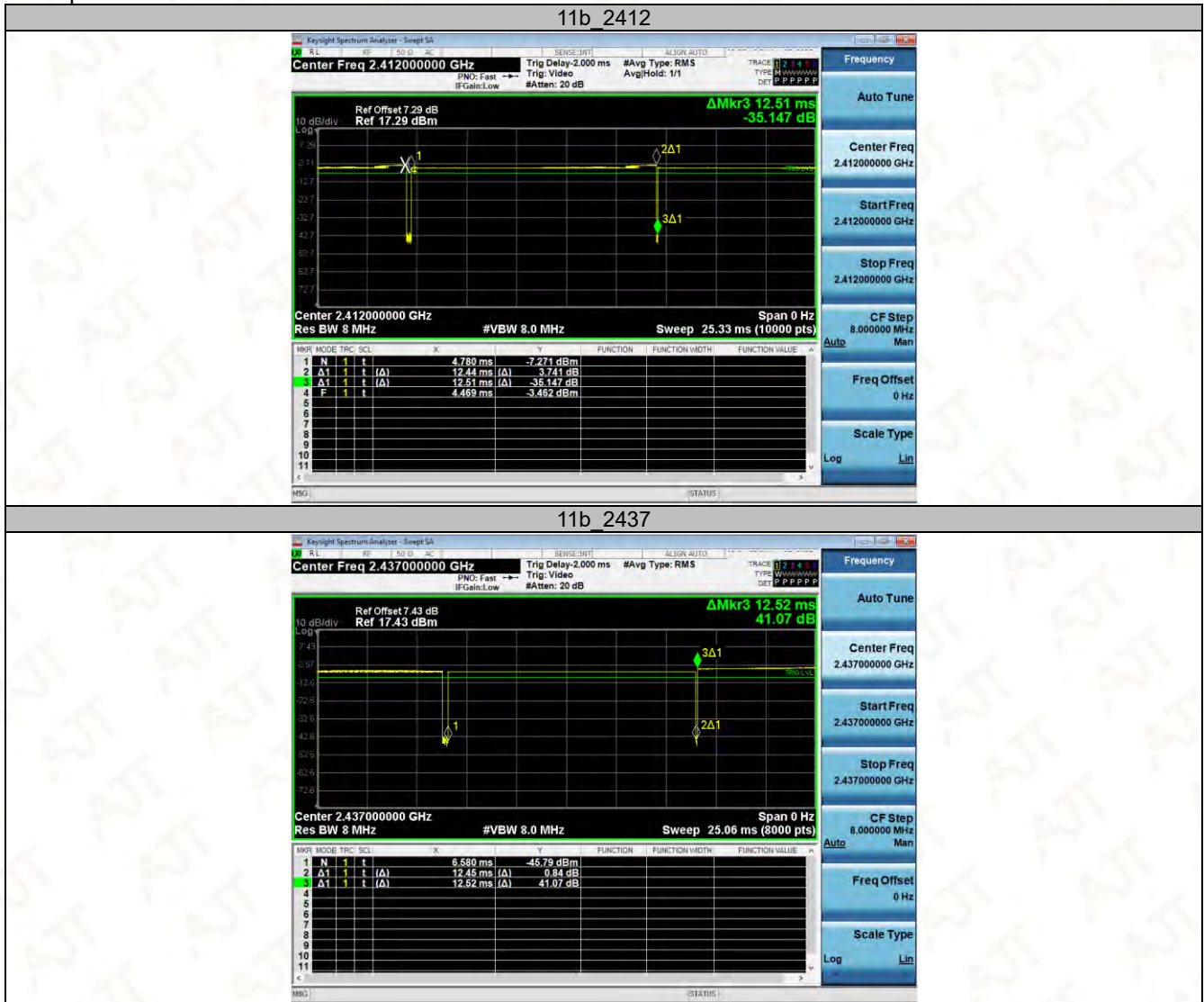




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Test plot



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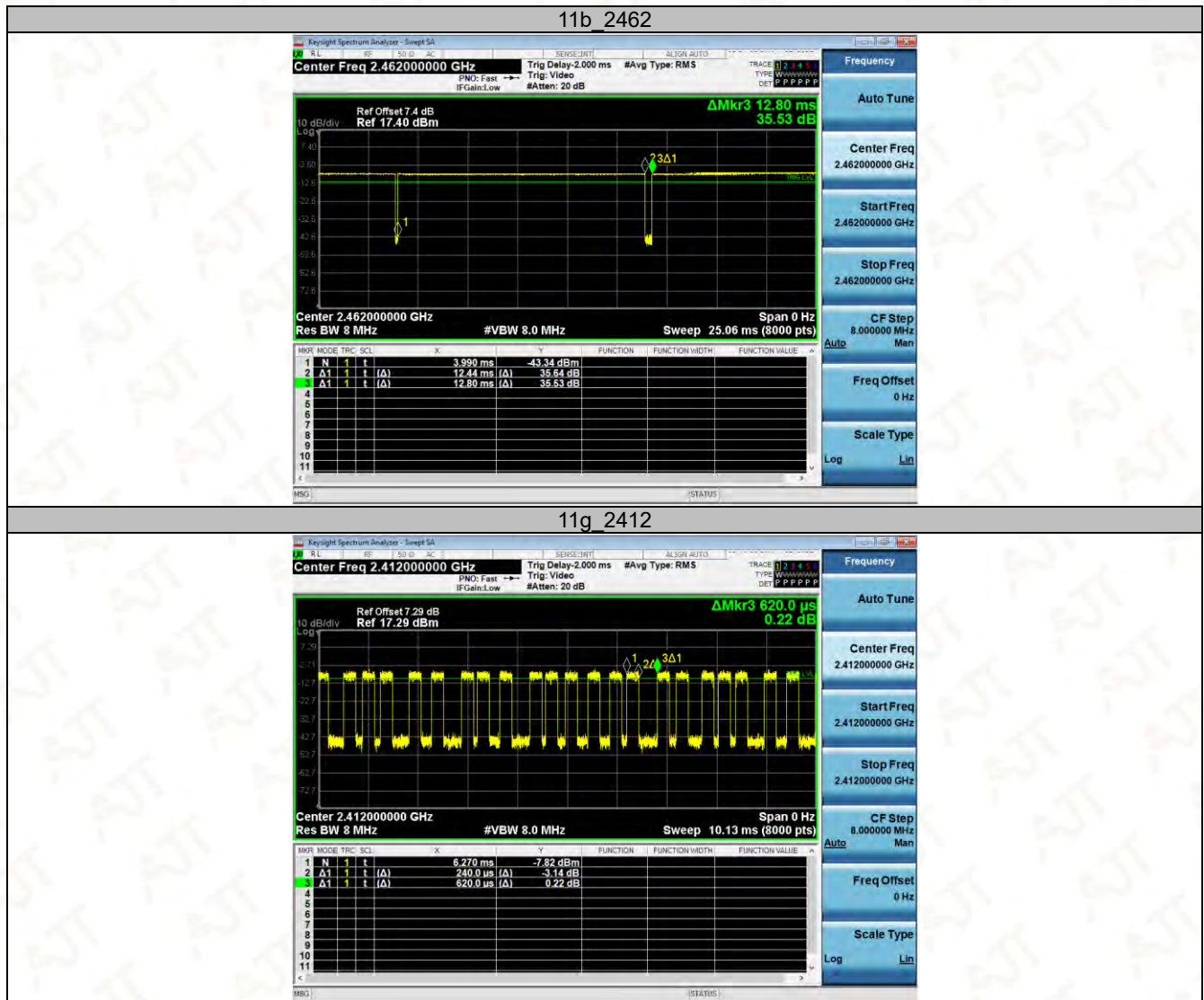
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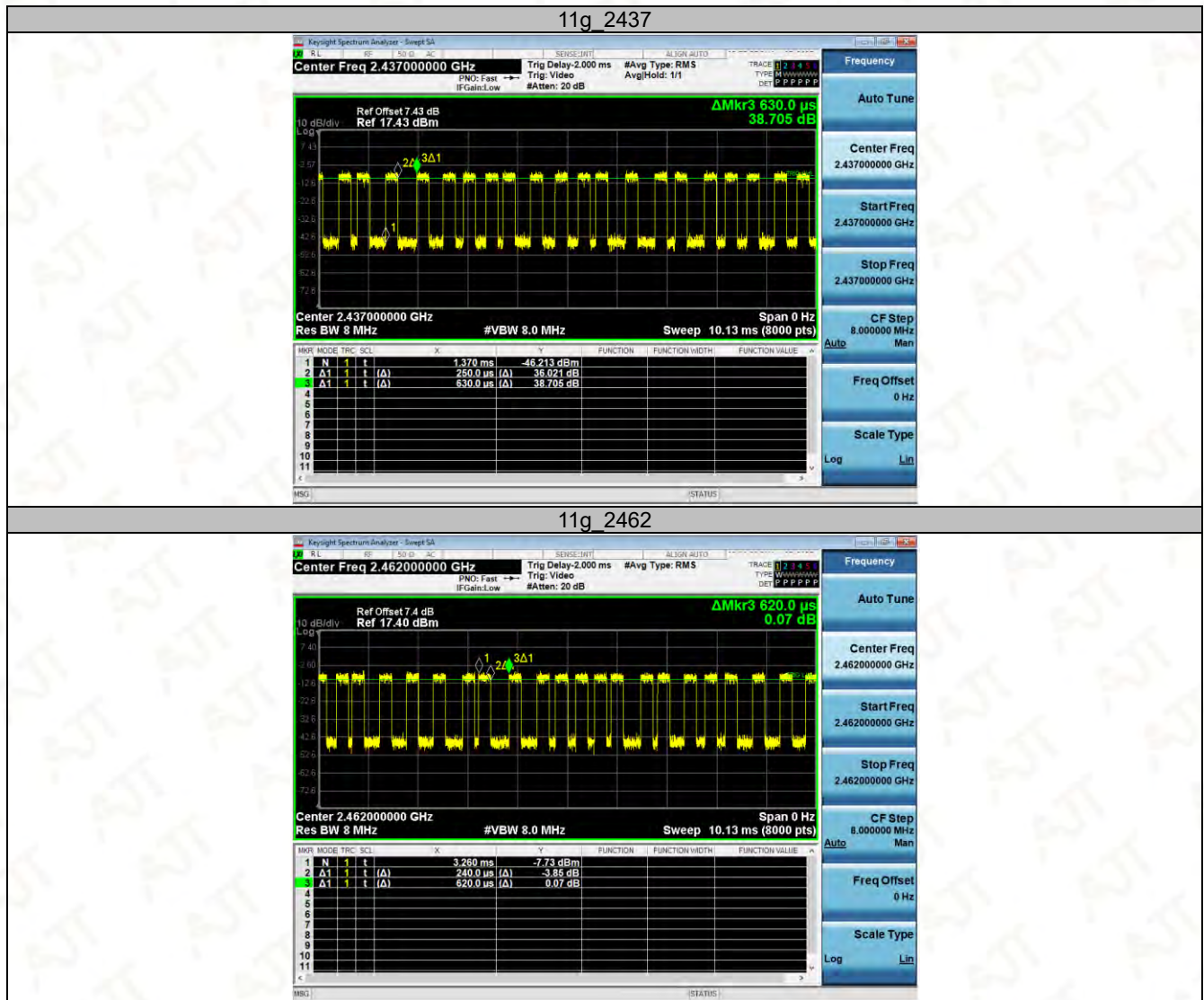






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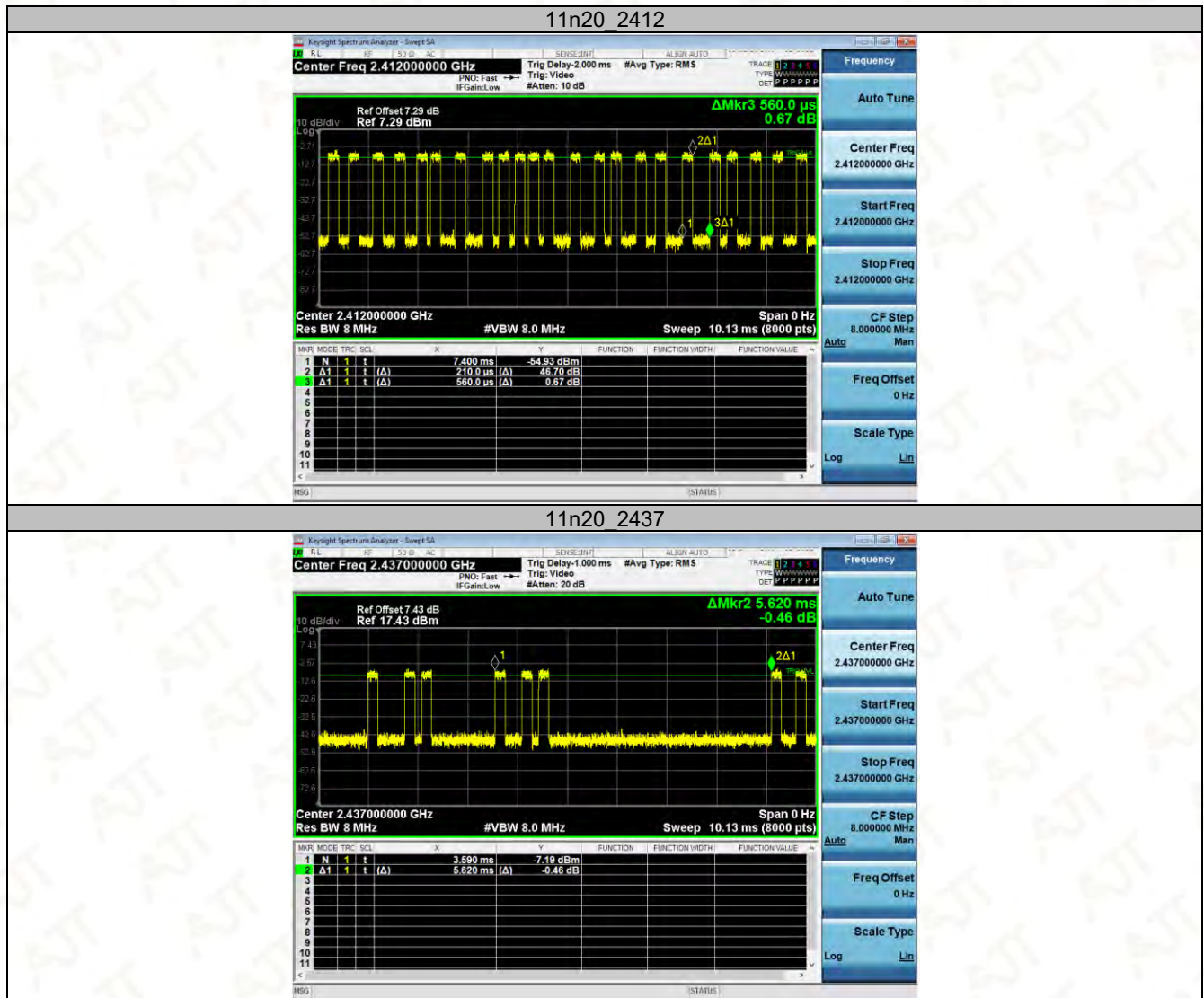
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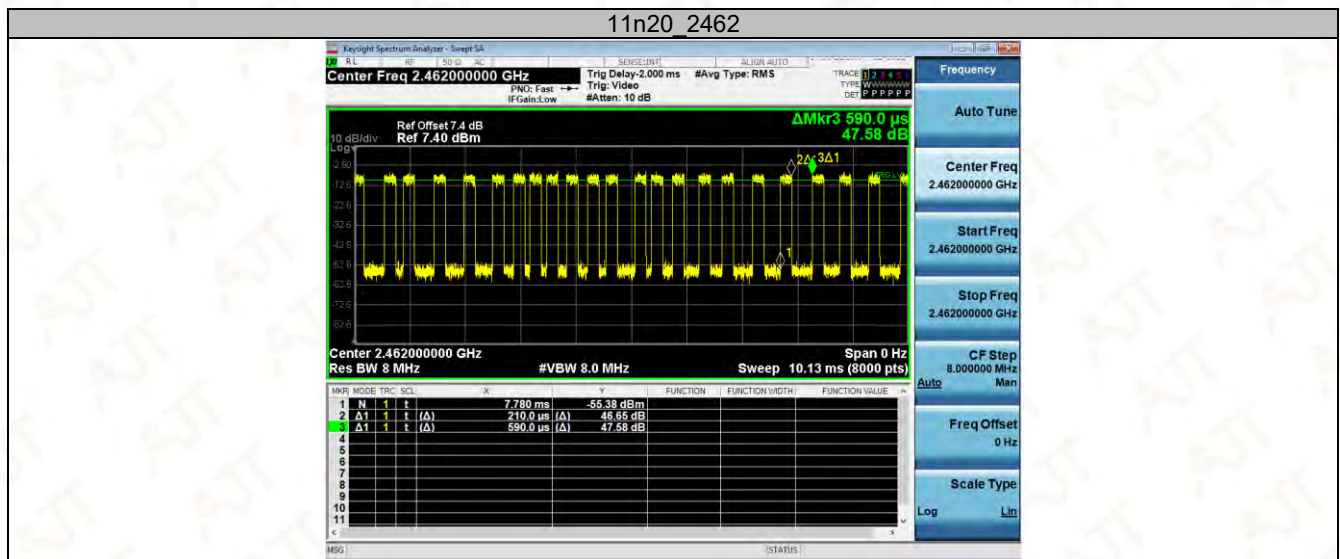






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# Test Report

No.: AJT250402021EB-3

## 10 Conducted Band Edges Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;  
ANSI C63.10:2013

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated 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) (see §15.205(c)).

Test Mode: Transmitting

### 10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

### 10.2 Test Result

Test result plots shown as follows:

| TestMode | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|----------|--------|---------|---------------|-------------|---------------|---------|
| 11b      | Low    | 2412    | -22.99        | -56.6       | $\leq -52.99$ | PASS    |
|          | High   | 2462    | -19.31        | -53.18      | $\leq -49.31$ | PASS    |
| 11g      | Low    | 2412    | -24.81        | -59.22      | $\leq -54.81$ | PASS    |
|          | High   | 2462    | -20.63        | -52.54      | $\leq -50.63$ | PASS    |
| 11n20    | Low    | 2412    | -24.10        | -56.36      | $\leq -54.10$ | PASS    |
|          | High   | 2462    | -20.23        | -51.78      | $\leq -50.23$ | PASS    |

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# Test Report

No.: AJT250402021EB-3

Test plot



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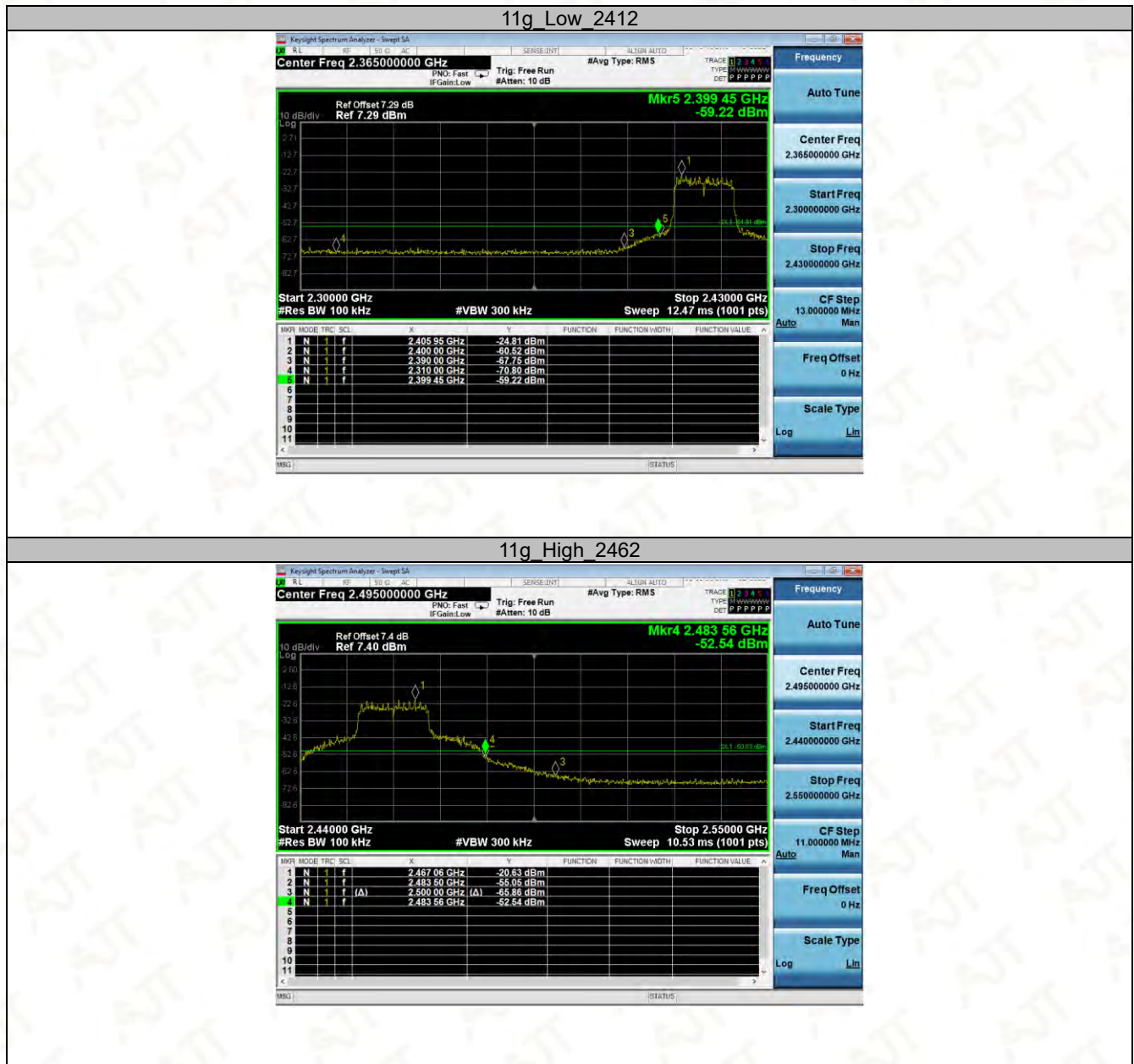
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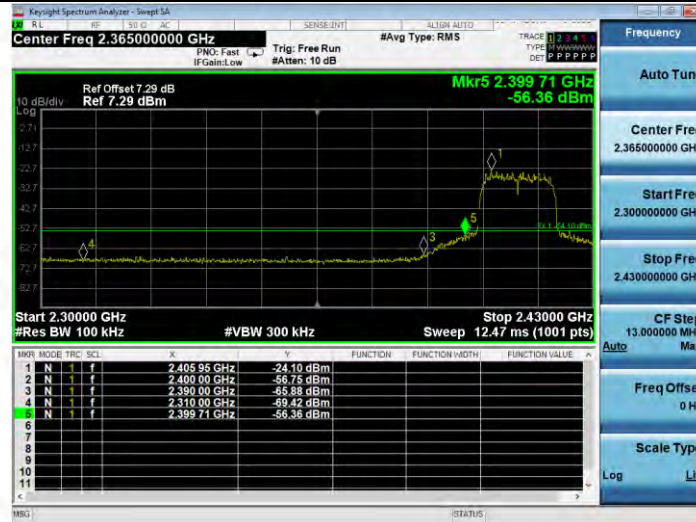




# Test Report

No.: AJT250402021EB-3

## 11n20\_Low\_2412



## 11n20\_High\_2462



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# Test Report

No.: AJT250402021EB-3

## 11 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;  
ANSI C63.10:2013

Limit: For systems using digital modulation techniques that 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.

### 11.1 Test Procedure:

- 1.Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2.6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz  
99% Bandwidth Set the spectrum analyzer: RBW = 1~5% DTS OBW, VBW = 3 RBW

### 11.2 Test Result:

| Test Mode | Channel | 6dB BW [MHz] | 6dB Limit [MHz] | OCB [MHz] | Result |
|-----------|---------|--------------|-----------------|-----------|--------|
| 11b       | 2412    | 11.120       | $\geq 0.5$      | 14.932    | Pass   |
|           | 2437    | 10.240       | $\geq 0.5$      | 15.475    | Pass   |
|           | 2462    | 10.360       | $\geq 0.5$      | 17.505    | Pass   |
| 11g       | 2412    | 15.200       | $\geq 0.5$      | 17.624    | Pass   |
|           | 2437    | 15.200       | $\geq 0.5$      | 20.450    | Pass   |
|           | 2462    | 15.720       | $\geq 0.5$      | 22.761    | Pass   |
| 11n20     | 2412    | 15.640       | $\geq 0.5$      | 18.138    | Pass   |
|           | 2437    | 15.680       | $\geq 0.5$      | 20.296    | Pass   |
|           | 2462    | 19.960       | $\geq 0.5$      | 22.214    | Pass   |

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# Test Report

No.: AJT250402021EB-3

Test result plot:

6 dB Bandwidth

11b\_2412



11b\_2437



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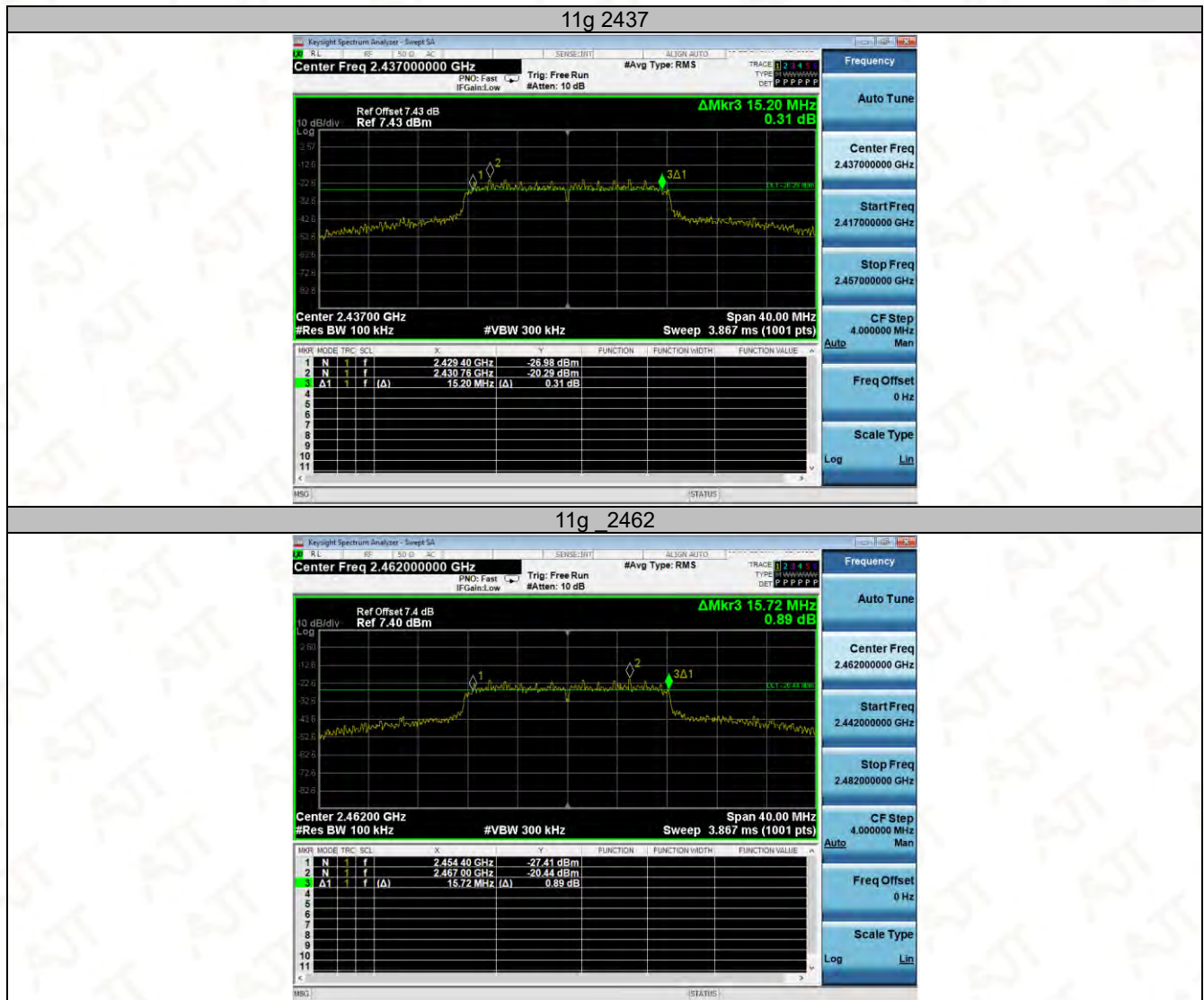






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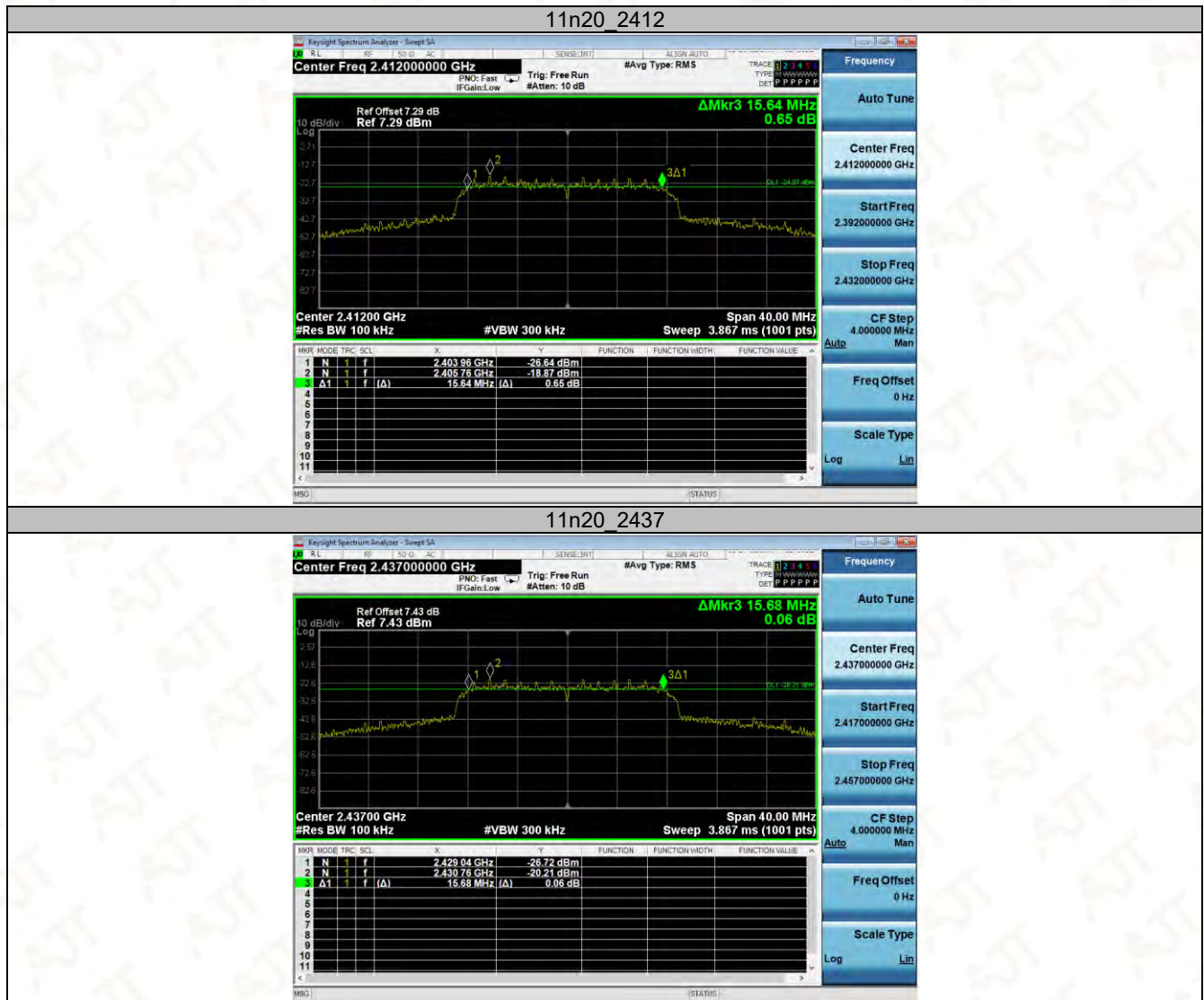
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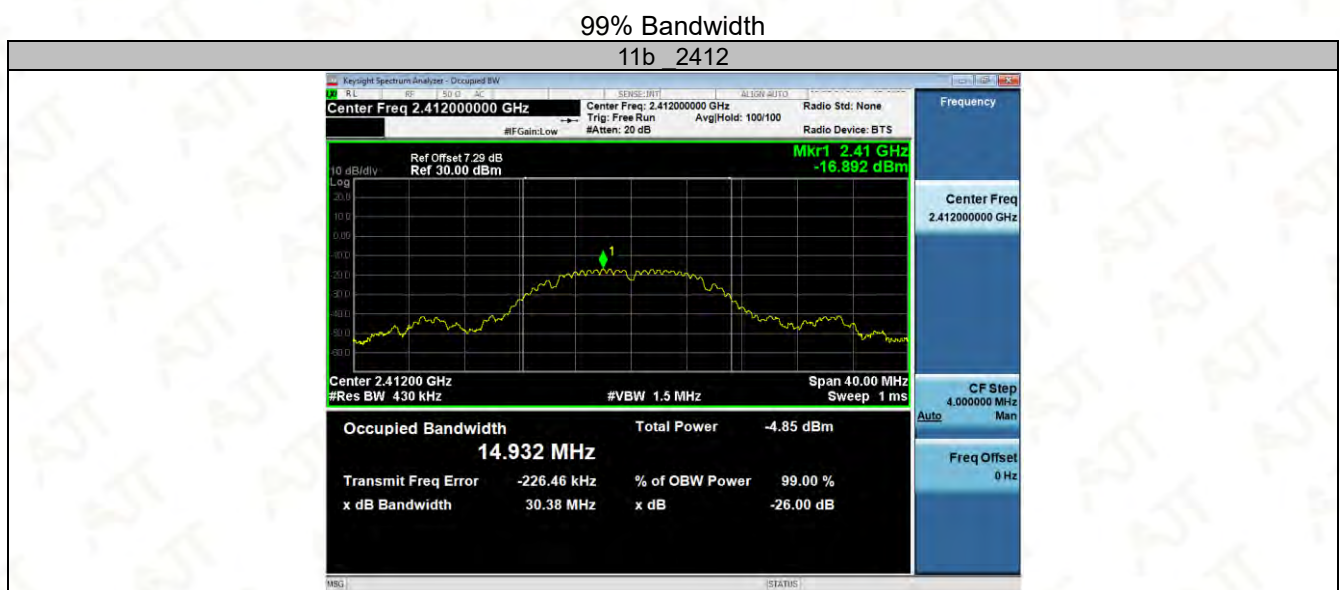






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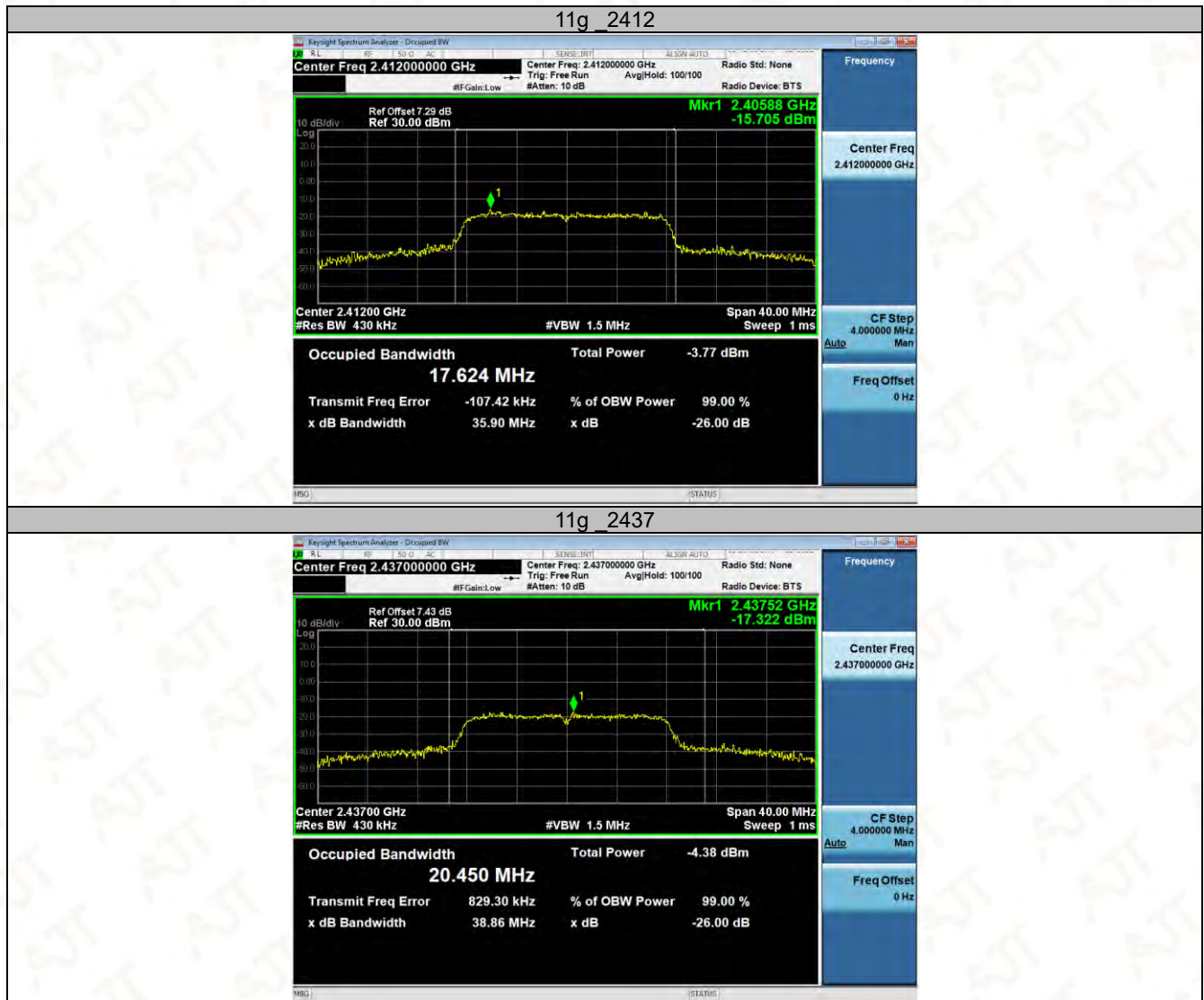






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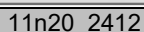
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11g 2462

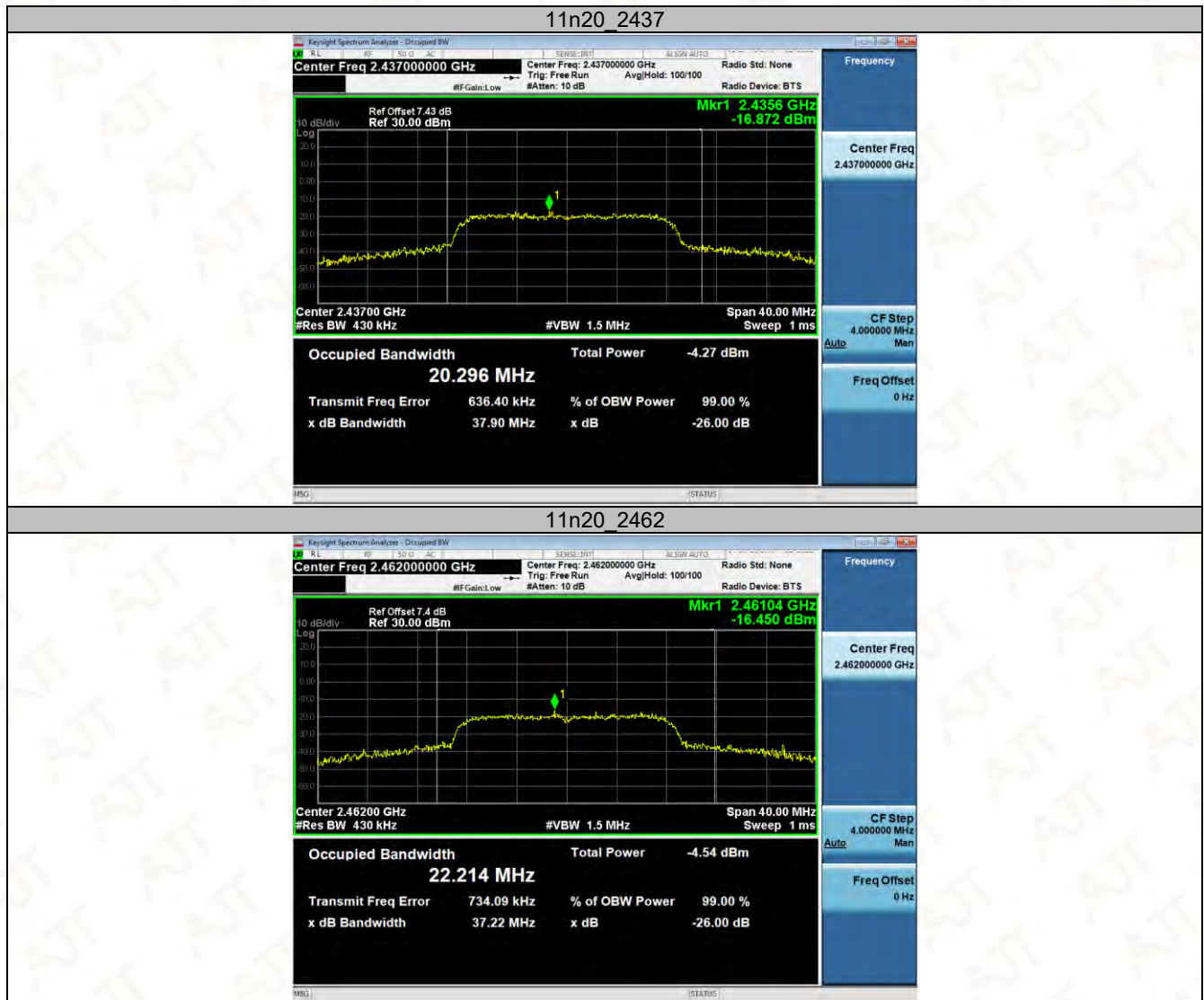






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# Test Report

No.: AJT250402021EB-3

## 12 Maximum Conducted Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247  
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;  
ANSI C63.10:2013

### 12.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019  
section 8.3.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- (a) Set the RBW  $\geq$  DTS bandwidth.
- (b) Set VBW  $\geq 3 \times$  RBW.
- (c) Set span  $\geq 3 \times$  RBW
- (d) Sweep time = auto couple.
- (e) Detector = peak.
- (f) Trace mode = max hold.
- (g) Allow trace to fully stabilize.
- (h) Use peak marker function to determine the peak amplitude level.

section 8.3.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- (a) Set the RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- (b) Set the VBW  $\geq 3 \times$  RBW
- (c) Set the span  $\geq 1.5 \times$  OBW.
- (d) Detector = RMS.
- (e) Sweep time = auto couple.
- (f) trigger = free run.
- (g) Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\geq \text{RBW} / 2$ , so that narrowband signals are not lost between frequency bins.)
- (h) Trace average at least 100 traces in power averaging (rms) mode.
- (i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

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# Test Report

No.: AJT250402021EB-3

## 12.2 Test Result:

| TestMode | Channel | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-------------|------------|---------|
| 11b      | 2412    | -5.24       | ≤30        | PASS    |
|          | 2437    | -6.53       | ≤30        | PASS    |
|          | 2462    | -5.95       | ≤30        | PASS    |
| 11g      | 2412    | -0.85       | ≤30        | PASS    |
|          | 2437    | -1.54       | ≤30        | PASS    |
|          | 2462    | -1.70       | ≤30        | PASS    |
| 11n20    | 2412    | -0.30       | ≤30        | PASS    |
|          | 2437    | 4.07        | ≤30        | PASS    |
|          | 2462    | -1.10       | ≤30        | PASS    |

Maximum output power= Conducted output power(Including the Cable loss)+ Duty Cycle Factor

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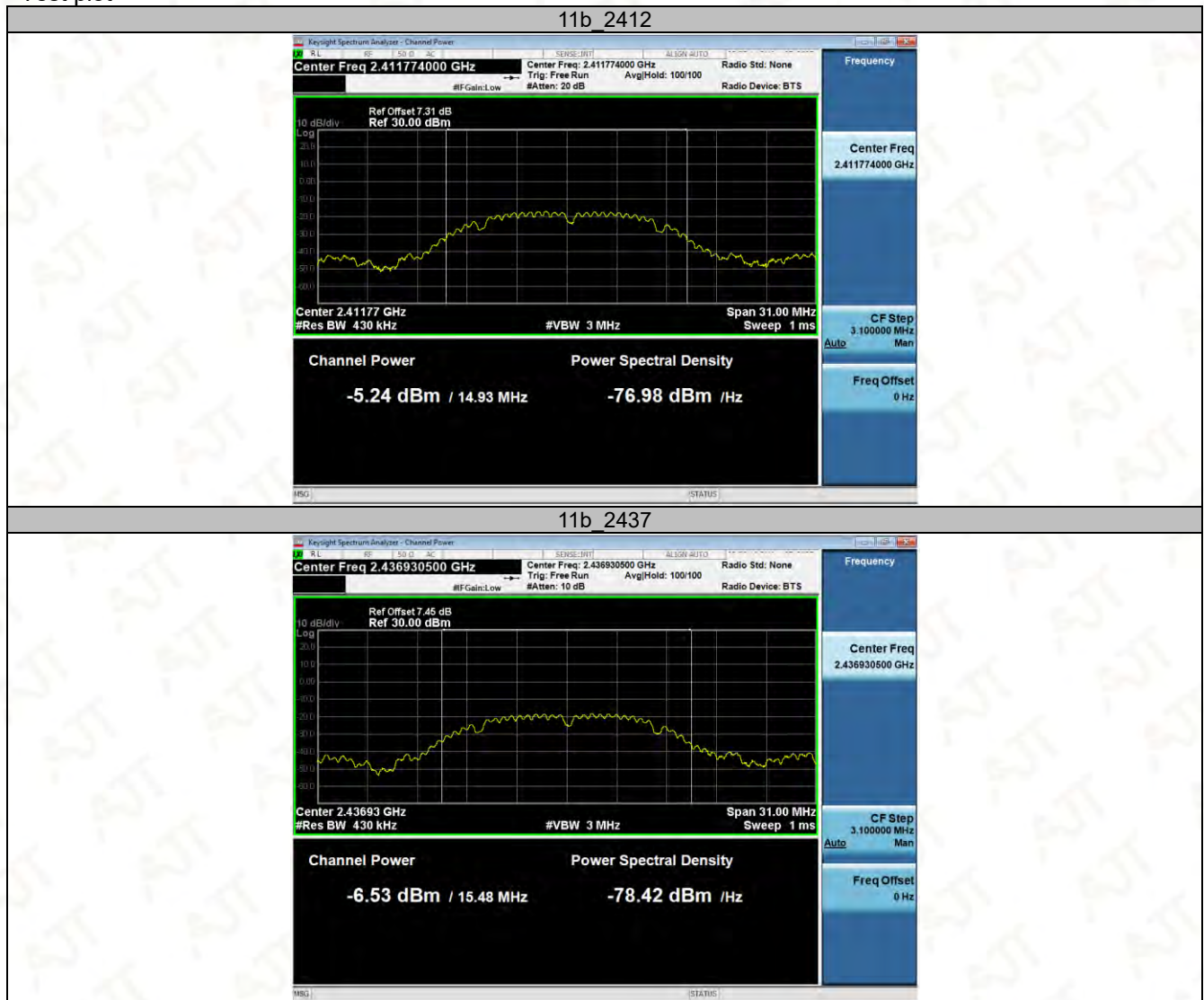




# Test Report

No.: AJT250402021EB-3

Test plot



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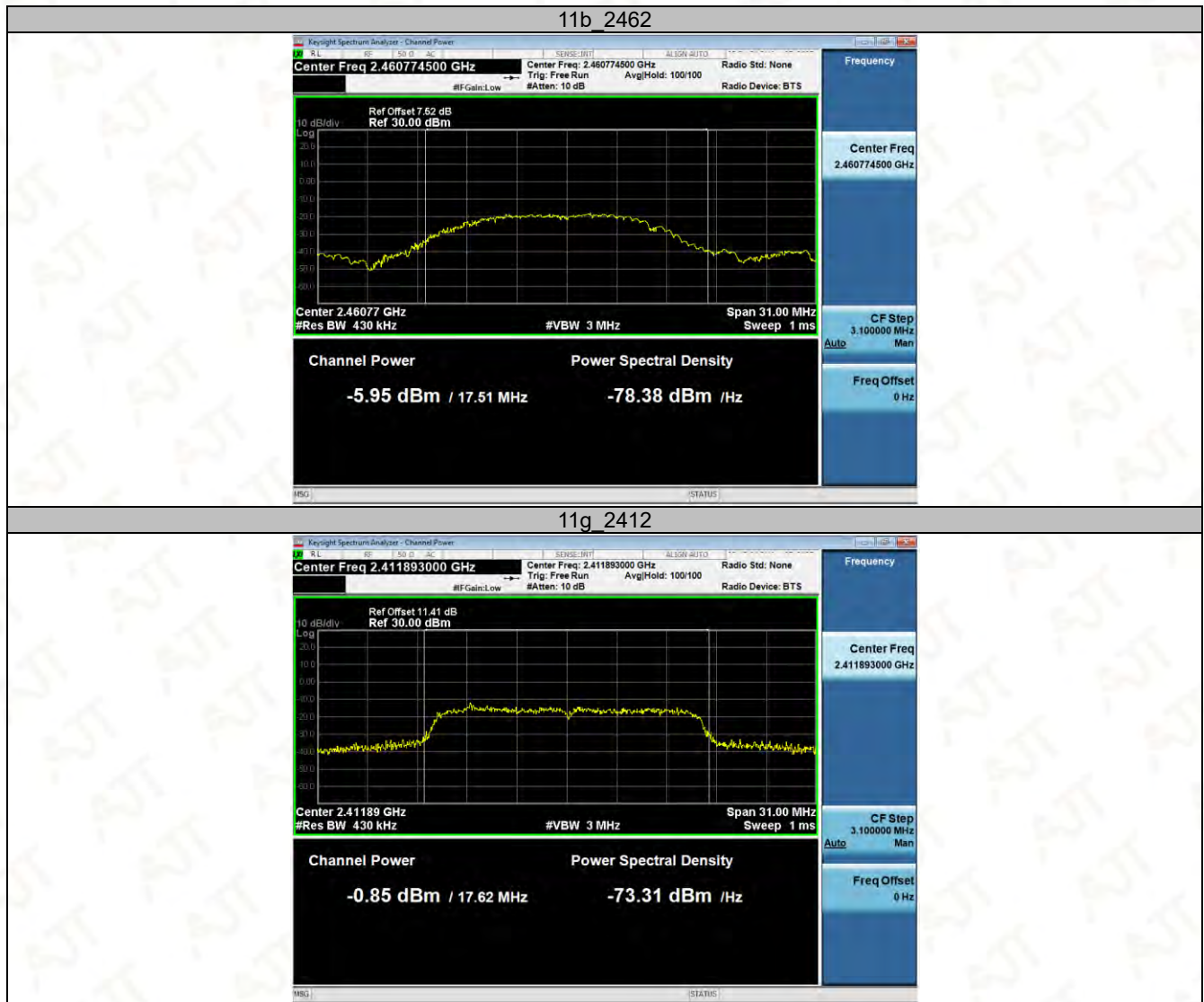






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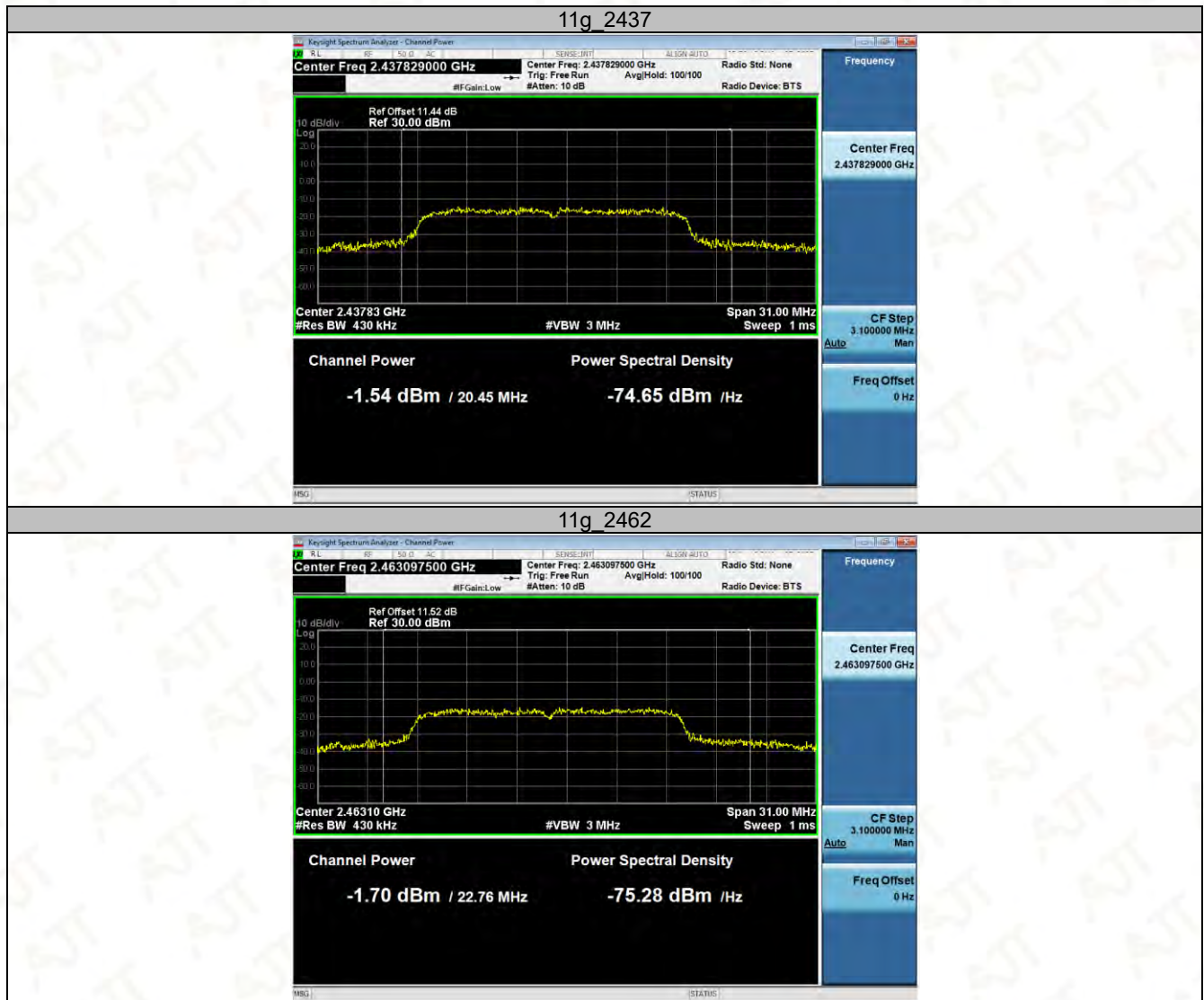
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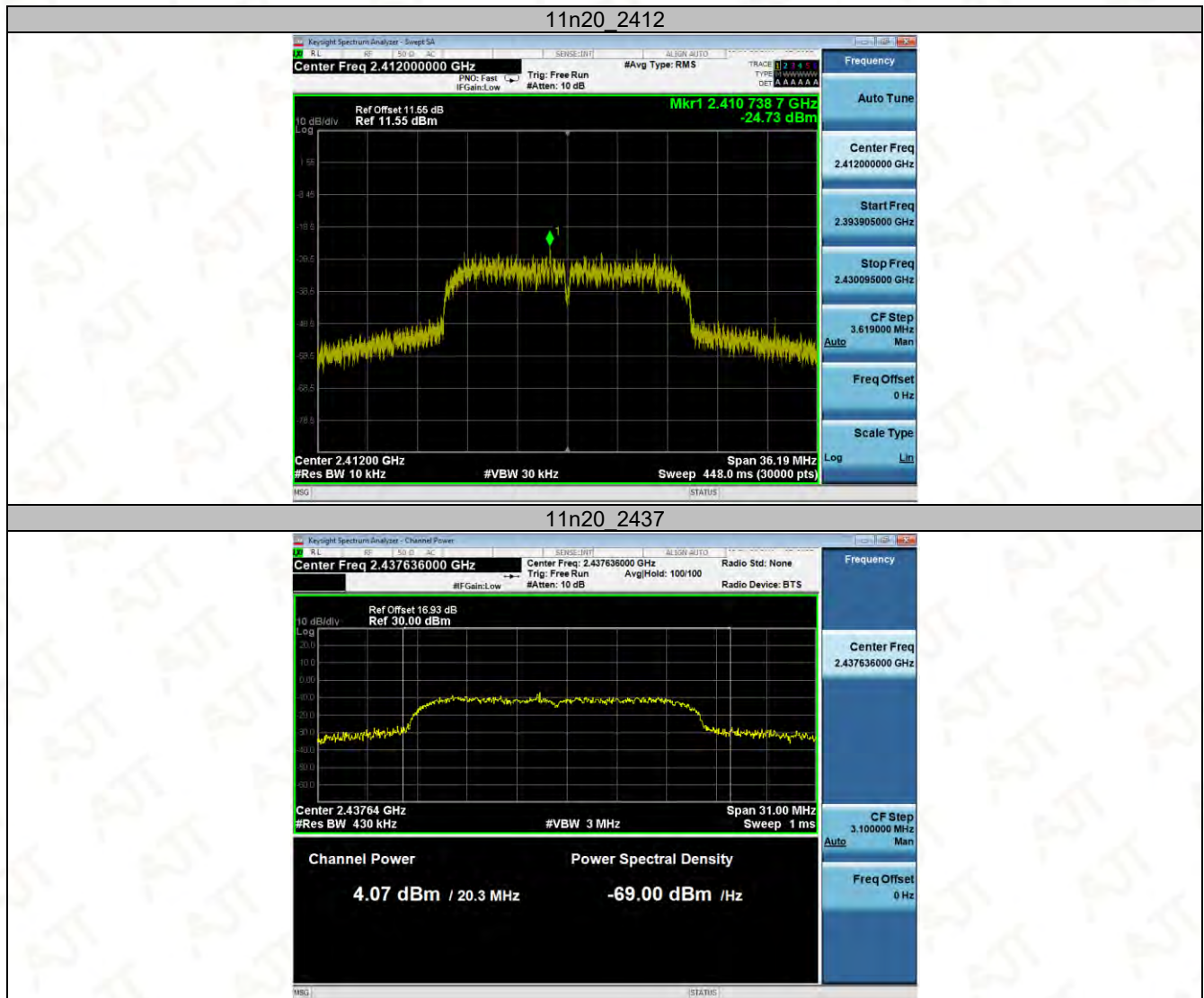






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# Test Report

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# Test Report

No.: AJT250402021EB-3

## 13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;  
ANSI C63.10:2013

### 13.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 10.2

- 1.Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2.Set the spectrum analyzer:  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .  $\text{VBW} \geq [3 \times \text{RBW}]$ . , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3.Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

### 13.2 Test Result:

| TestMode | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------------|-----------------|---------|
| 11b      | 2412    | -26.53               | $\leq 8$        | PASS    |
|          | 2437    | -29.92               | $\leq 8$        | PASS    |
|          | 2462    | -28.88               | $\leq 8$        | PASS    |
| 11g      | 2412    | -25.73               | $\leq 8$        | PASS    |
|          | 2437    | -27.43               | $\leq 8$        | PASS    |
|          | 2462    | -26.90               | $\leq 8$        | PASS    |
| 11n20    | 2412    | -24.73               | $\leq 8$        | PASS    |
|          | 2437    | -20.46               | $\leq 8$        | PASS    |
|          | 2462    | -25.75               | $\leq 8$        | PASS    |

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AJT TESTING SERVICES LIMITED

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Tel: 86-754-85860999 Fax: 86-754-86984098 Website: [www.ajtesting.com](http://www.ajtesting.com) Email: [info@ajtesting.com](mailto:info@ajtesting.com)





# Test Report

No.: AJT250402021EB-3

Test plot



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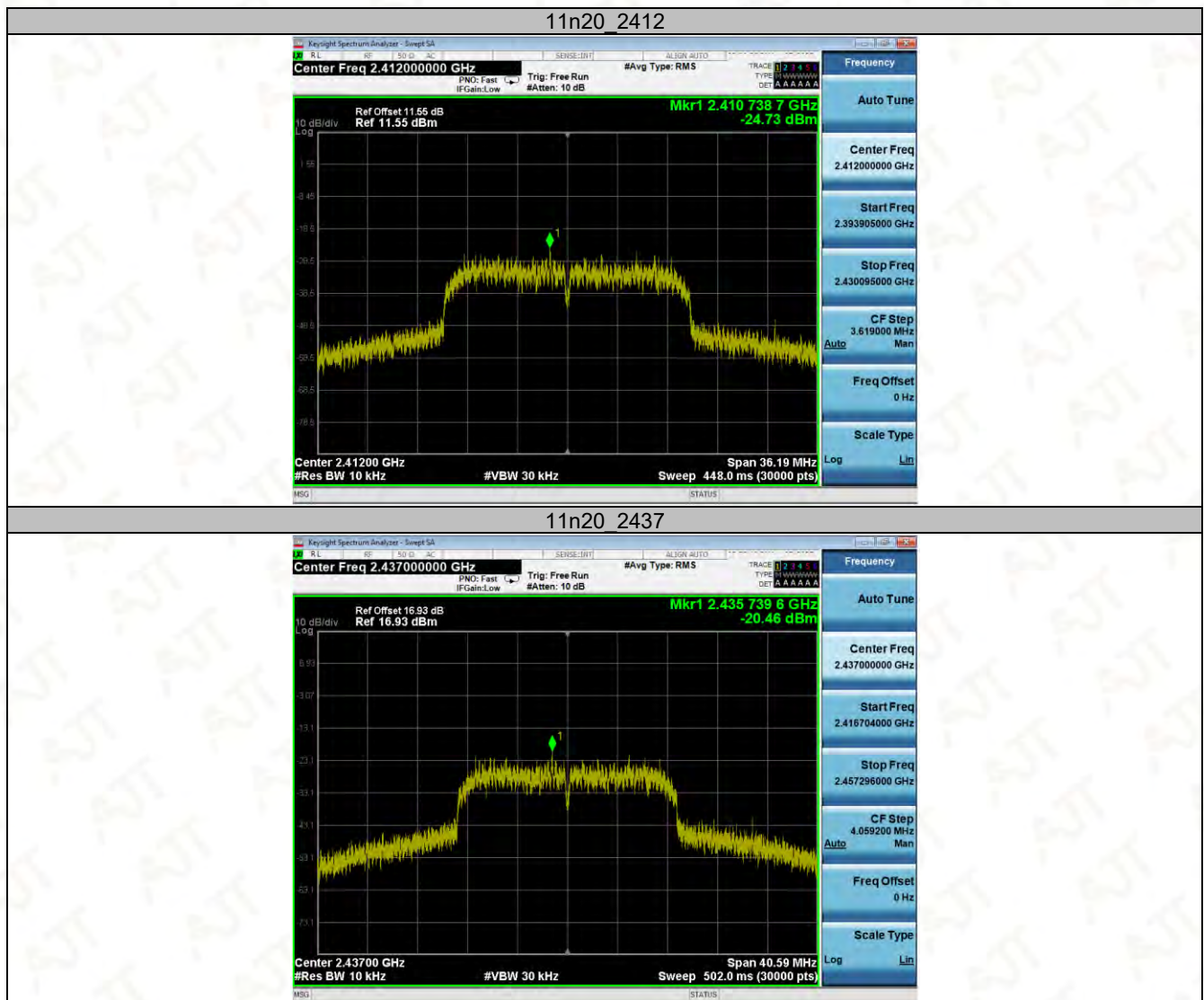






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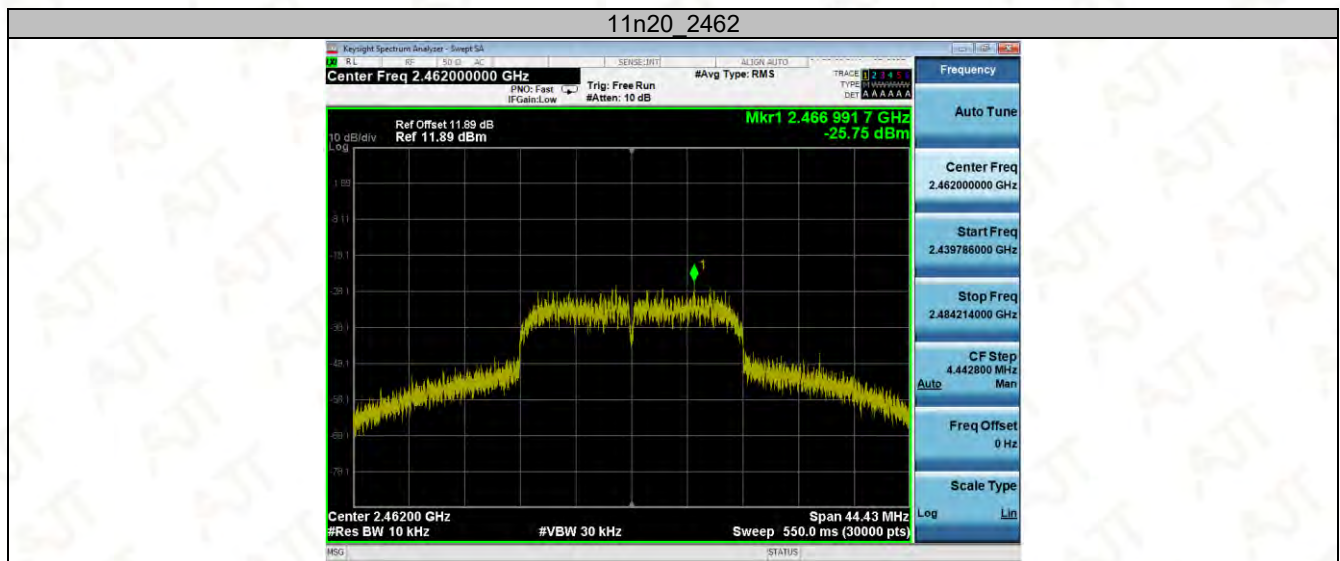
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# Test Report

No.: AJT250402021EB-3

## 14 Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfill the requirement of this section.

## 15 RF Exposure

Remark: refer to MPE test report: AJT250402021E-4

## 16 Test Photographs

Referring to – “Test Setup Photos of AJT250402021P-6”.

## 17 Photos of the EUT

Referring to – “External Photos of AJT250402021P-4” and “Internal Photos of AJT250402021P-5”.

END OF TEST REPORT

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