

**Dynascan Technology Corp.**

# TEST REPORT

**Model:**

68301, 68303, 68305, 68307

**REPORT NUMBER**

251200018THC-001

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**DOCUMENT CONTROL NUMBER**

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# Radio Spectrum TEST REPORT

|                               |                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>             | <b>Dynascan Technology Corp.</b><br><b>6F., No. 88, Wenmao Rd., Guishan Dist., Taoyuan City 333001,</b><br><b>Taiwan</b>                                                  |
| <b>Product:</b>               | <b>EPAPER DISPLAY</b>                                                                                                                                                     |
| <b>Model No.:</b>             | <b>68301, 68303, 68305, 68307</b>                                                                                                                                         |
| <b>FCC ID:</b>                | <b>2AKWY-XBP501</b>                                                                                                                                                       |
| <b>Test Method/ Standard:</b> | <b>47 CFR FCC Part 15.247 &amp; ANSI C63.10-2020</b><br><b>KDB 558074 D01 v05r02, KDB 662911 D01 v02r01</b>                                                               |
| <b>Test By:</b>               | <b>Intertek Testing Services Taiwan Ltd.,</b><br><b>Hsinchu Laboratory</b><br><b>No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist,</b><br><b>Hsinchu City 300075, Taiwan</b> |



A handwritten signature in black ink, appearing to read "Rich Nien".

**Rich Nien**  
**Engineer**

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**Rico Deng**  
**Reviewer**

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**TEST REPORT**

**Revision History**

| Report No.       | Issue Date   | Revision Summary |
|------------------|--------------|------------------|
| 251200018THC-001 | May 26, 2026 | Original report  |

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**Summary of Test Data**

| Test Requirement                                                            | Applicable Rule<br>(Section 15.247) | Result |
|-----------------------------------------------------------------------------|-------------------------------------|--------|
| Minimum 6 dB Bandwidth                                                      | 15.247(a)(2)                        | Pass   |
| Maximum Peak Conducted Output Power                                         | 15.247(b)(3)                        | Pass   |
| Power Spectral Density                                                      | 15.247(e)                           | Pass   |
| Emissions In Non-Restricted Frequency Bands                                 | 15.247(d)                           | Pass   |
| Emissions In Restricted Frequency Bands<br>(Radiated emission measurements) | 15.247(d), 15.205, 15.209           | Pass   |
| Emission On The Band Edge                                                   | 15.247(d), 15.205                   | Pass   |
| AC Power Line Conducted Emission                                            | 15.207                              | Pass   |
| Antenna Requirement                                                         | 15.203                              | Pass   |

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

## 1. General Information

### 1.1 Identification of the EUT

|                                   |                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------|
| <b>Product:</b>                   | EPAPER DISPLAY                                                                            |
| <b>Model No.:</b>                 | 68301, 68307                                                                              |
| <b>Operating Frequency:</b>       | 2412MHz ~ 2462MHz                                                                         |
| <b>Channel Number:</b>            | 11 channels                                                                               |
| <b>Frequency of Each Channel:</b> | 2412MHz+5k, k=0 ~ 10                                                                      |
| <b>Rating:</b>                    | 1. DC 5V 2.5A from USB-C Charger for 68301<br>2. DC 12V 2.5A from USB-C Charger for 68307 |
| <b>Sample receiving date:</b>     | 1. 2025/12/02 for 68301<br>2. 2026/04/22 for 68307                                        |
| <b>Sample condition:</b>          | Workable                                                                                  |
| <b>Test Date(s):</b>              | 1. 2025/12/23 ~ 2026/01/09 for 68301<br>2. 2026/05/06 for 68307                           |

### 1.2 Adapter information

The EUT will be supplied with a power supply from below list:

| No.           | Model no. | Specification                                                                                                                  |
|---------------|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| USB-C Charger | A1C030AC  | I/P: 100-240V~ 50/60Hz, 1.2A<br>O/P: 5.0V~3.0A 15.0W/9.0V~3.0A<br>27.0W/12.0V~2.5A 30.0W/15.0V~2.0A 30.0W/<br>20.0V~1.5A 30.0W |

### 1.3 Additional information about the EUT

The customer confirmed the models listed as below were series model to model 68301 (EUT), the difference between main model and series model are listed as below.

| Model Number | Protective Glass | Dimensions |
|--------------|------------------|------------|
| 68301        | V                | 13.3"      |
| 68303        | X                | 13.3"      |
| 68305        | X                | 28.54"     |
| 68307        | V                | 28.54"     |

After engineer judgment, the Radiated emission test (30MHz~1GHz) for 68307 were considered necessary.

| Modulation mode | Transmit path |         |
|-----------------|---------------|---------|
|                 | Chain 0       | Chain 1 |
| 802.11b         | V             | V       |
| 802.11g         | V             | V       |
| 802.11 n (HT20) | V             | V       |
| 802.11ax (HE20) | V             | V       |

#### 1.4 Antenna description

##### Antenna 1

Antenna Gain: 2.24dBi  
Antenna Type: FPC antenna  
Connector Type: I-Pex  
Remark: Antenna information provided by the client.

##### Antenna 2

Antenna Gain: 2.24dBi  
Antenna Type: FPC antenna  
Connector Type: I-Pex  
Remark: Antenna information provided by the client.

#### 1.5 Operation mode

Connected to Notebook via USB Cable, executing "CMD" and enter command to select different frequency and modulation.

With individual verifying, the maximum output power were found out 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, MCS0 data rate for 802.11n(HT20) mode , MCS0 data rate for 802.11ax(HE20) mode the final tests were executed under these conditions recorded in this report individually.

The SISO mode is covered by MIMO mode, so only the MIMO mode is tested.

The signal is maximized through rotation and placement in the Two orthogonal axes.



**X axis**



**Y axis**

After verifying three axes, we found the maximum electromagnetic field was occurred at X axis. The final test data was executed under this configuration.

| Mode            | Channel | Frequency (MHz) | Data rate | Signal on time (ms) | Signal transmit on+off time (ms) | Duty cycle (%) | Duty Cycle factor |
|-----------------|---------|-----------------|-----------|---------------------|----------------------------------|----------------|-------------------|
| 802.11b         | 6       | 2437            | 1         | 1236.00             | 1281.00                          | 96.49          | 0.16              |
| 802.11g         | 6       | 2437            | 6         | 1233.00             | 1279.00                          | 96.40          | 0.16              |
| 802.11n (HT20)  | 6       | 2437            | MCS0      | 1233.00             | 1281.00                          | 96.25          | 0.17              |
| 802.11ax (HE20) | 6       | 2437            | MCS0      | 1.02                | 1.12                             | 91.25          | 0.40              |

## 1.6 Peripherals equipment

| Peripheral Name | Brand     | Model No.  | Serial No.  |
|-----------------|-----------|------------|-------------|
| Notebook PC     | Dell      | PC14250    | 14941295292 |
| Battery         | Panasonic | NCR18650GA | N/A         |

## 2. Minimum 6 dB Bandwidth

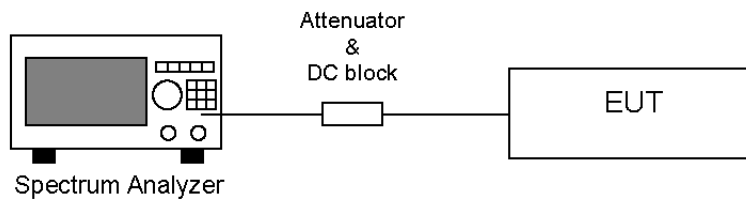
### 2.1 Instrument Setting

| Spectrum Parameter | Setting                                                 |
|--------------------|---------------------------------------------------------|
| Detector           | Peak                                                    |
| RBW                | 100kHz                                                  |
| VBW                | $\geq 3 \times \text{RBW}$                              |
| Sweep              | Auto couple                                             |
| Trace              | Allow the trace to stabilize.                           |
| Span               | Between two times and five times the occupied bandwidth |
| Attenuation        | Auto                                                    |

### 2.2 Test Procedure

|        |                                                                                                                                                                                                                                                                  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 1 | The transmitter output was connected to the spectrum analyzer.                                                                                                                                                                                                   |
| Step 2 | Test was performed accordance with ANSI C63.10.                                                                                                                                                                                                                  |
| Step 3 | Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission |

### 2.3 Test Diagram



### 2.4 Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

## 2.5 Test Results

|                        |            |
|------------------------|------------|
| Test model:            | 68301      |
| Temperature (°C):      | 22         |
| Relative Humidity (%): | 65         |
| Test date:             | 2025/12/24 |

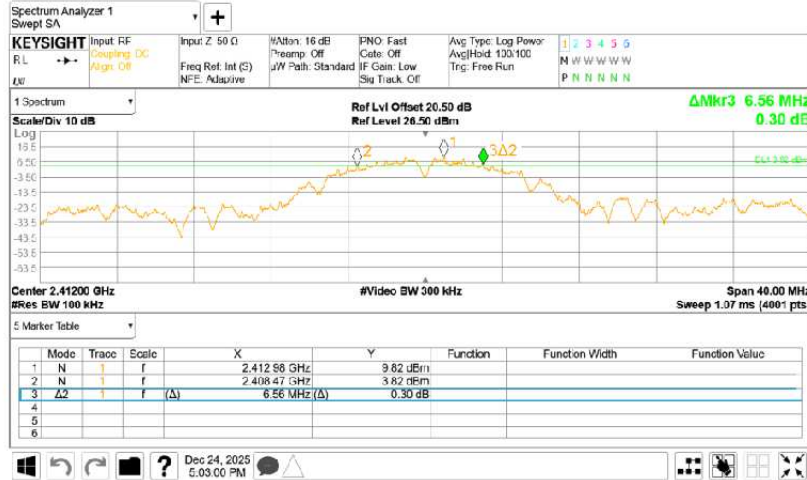
### Chain 0

| Mode            | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|-----------------|---------------------|-------------|--------|
| 802.11b         | 1       | 2412            | 6.56                | >0.5        | Pass   |
|                 | 6       | 2437            | 8.05                | >0.5        | Pass   |
|                 | 11      | 2462            | 7.08                | >0.5        | Pass   |
| 802.11g         | 1       | 2412            | 16.06               | >0.5        | Pass   |
|                 | 6       | 2437            | 16.33               | >0.5        | Pass   |
|                 | 11      | 2462            | 16.29               | >0.5        | Pass   |
| 802.11n(HT20)   | 1       | 2412            | 17.57               | >0.5        | Pass   |
|                 | 6       | 2437            | 16.55               | >0.5        | Pass   |
|                 | 11      | 2462            | 17.58               | >0.5        | Pass   |
| 802.11ax (HE20) | 1       | 2412            | 16.92               | >0.5        | Pass   |
|                 | 6       | 2437            | 15.34               | >0.5        | Pass   |
|                 | 11      | 2462            | 16.97               | >0.5        | Pass   |

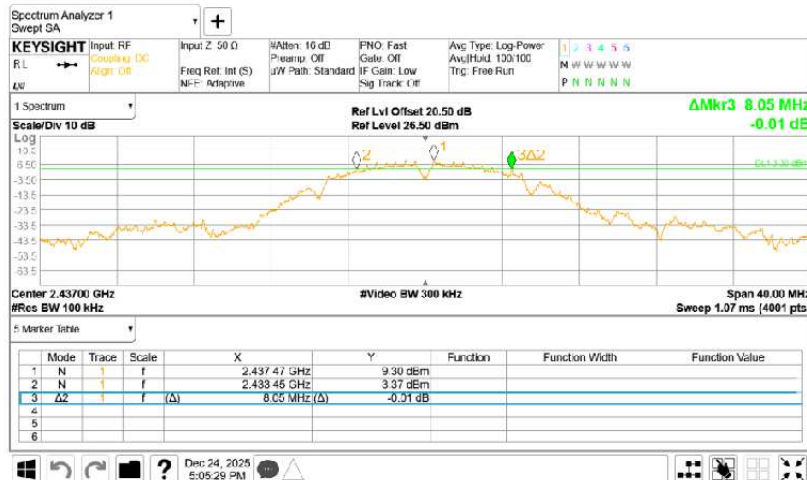
### Chain 1

| Mode            | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|-----------------|---------|-----------------|---------------------|-------------|--------|
| 802.11b         | 1       | 2412            | 7.02                | >0.5        | Pass   |
|                 | 6       | 2437            | 7.05                | >0.5        | Pass   |
|                 | 11      | 2462            | 7.57                | >0.5        | Pass   |
| 802.11g         | 1       | 2412            | 16.10               | >0.5        | Pass   |
|                 | 6       | 2437            | 15.05               | >0.5        | Pass   |
|                 | 11      | 2462            | 16.33               | >0.5        | Pass   |
| 802.11n(HT20)   | 1       | 2412            | 17.59               | >0.5        | Pass   |
|                 | 6       | 2437            | 16.61               | >0.5        | Pass   |
|                 | 11      | 2462            | 17.57               | >0.5        | Pass   |
| 802.11ax (HE20) | 1       | 2412            | 15.09               | >0.5        | Pass   |
|                 | 6       | 2437            | 16.69               | >0.5        | Pass   |
|                 | 11      | 2462            | 16.46               | >0.5        | Pass   |

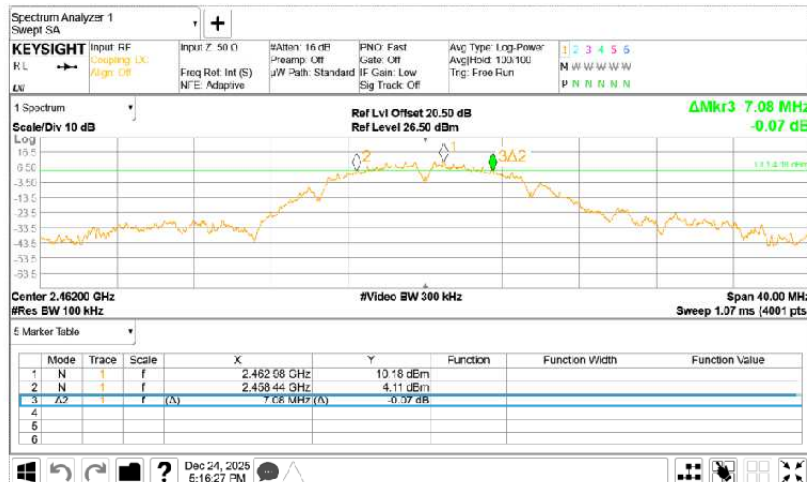
### Chain0 : 6dB Bandwidth @ 802.11b Mode Ch 1



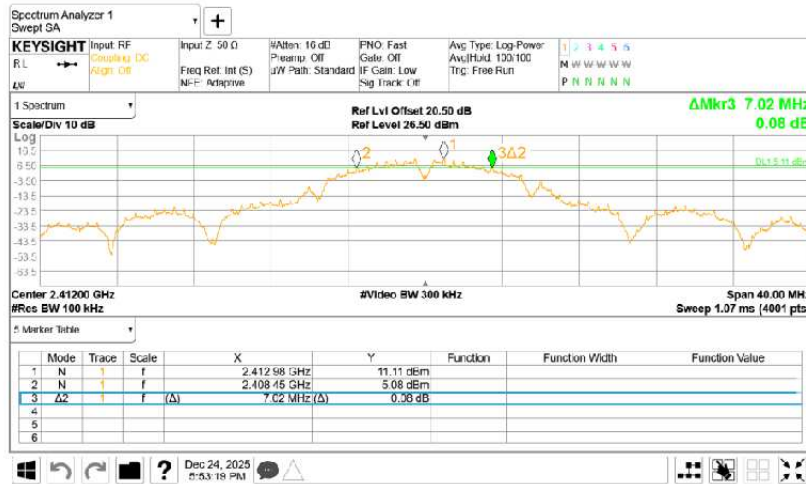
### Chain0 : 6dB Bandwidth @ 802.11b Mode Ch 6



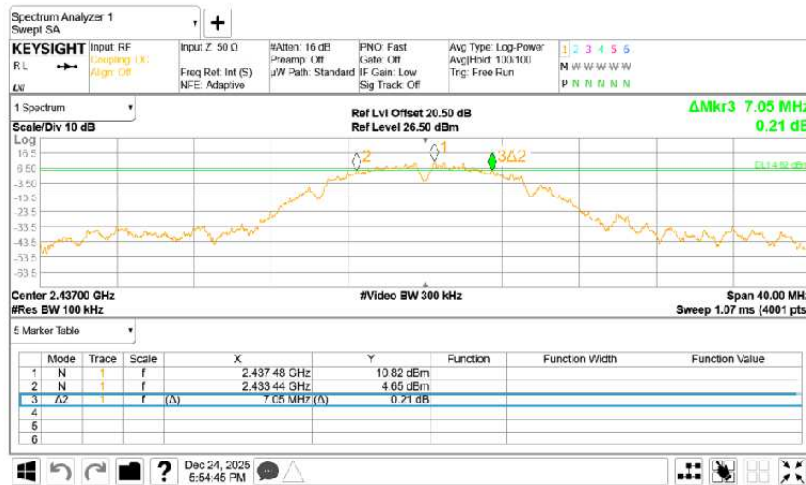
### Chain0 : 6dB Bandwidth @ 802.11b Mode Ch11



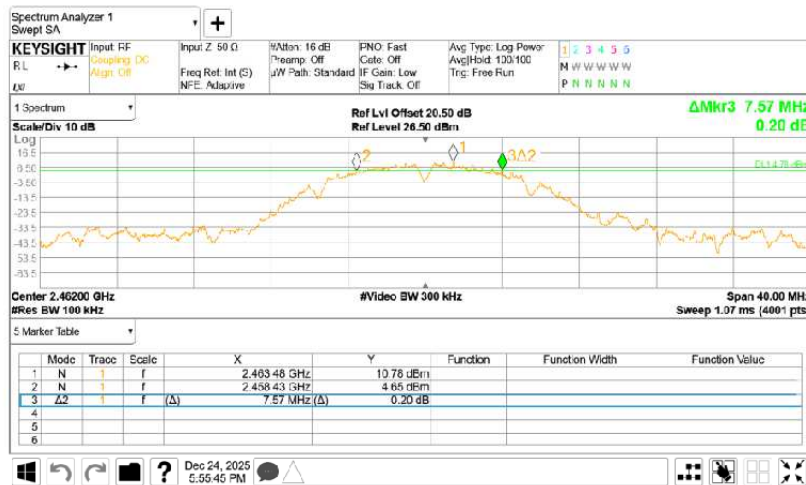
## Chain1 : 6dB Bandwidth @ 802.11b Mode Ch 1



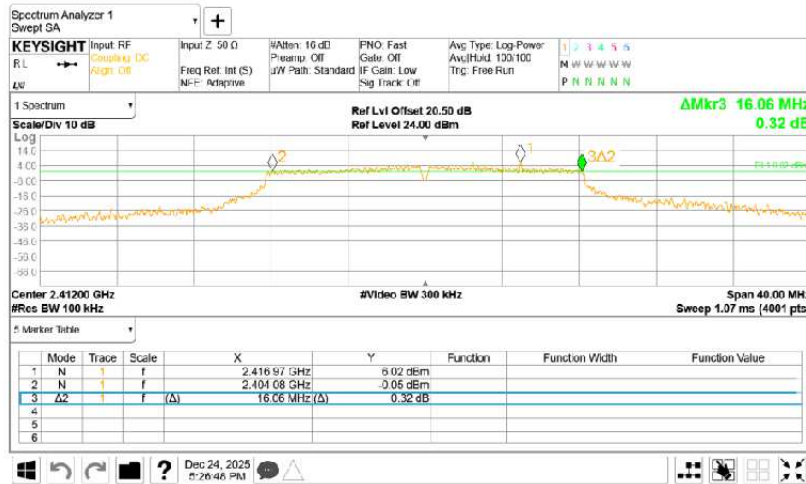
## Chain1 : 6dB Bandwidth @ 802.11b Mode Ch 6



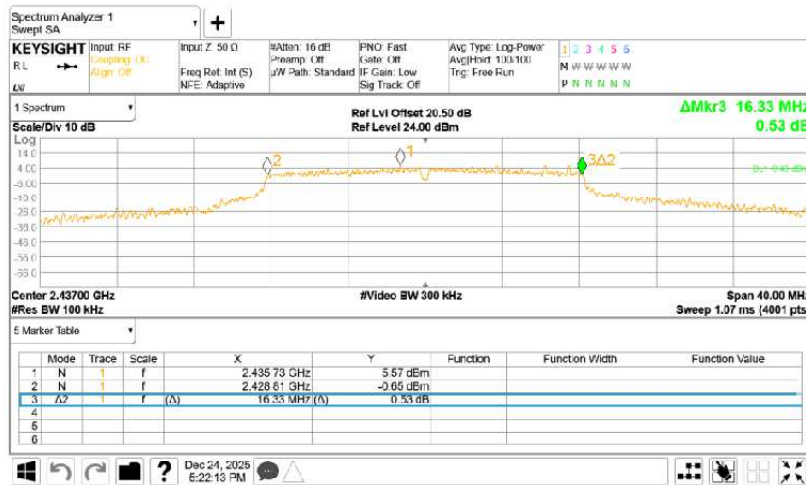
## Chain1 : 6dB Bandwidth @ 802.11b Mode Ch11



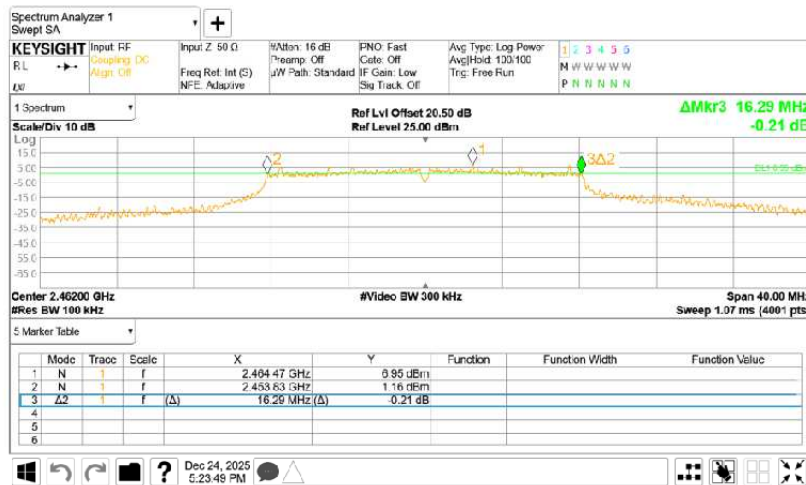
## Chain0 : 6dB Bandwidth @ 802.11g Mode Ch 1



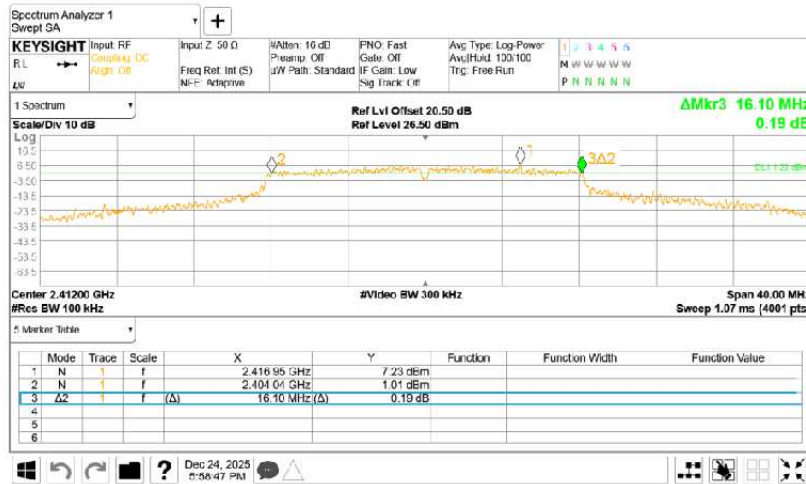
## Chain0 : 6dB Bandwidth @ 802.11g Mode Ch 6



## Chain0 : 6dB Bandwidth @ 802.11g Mode Ch11



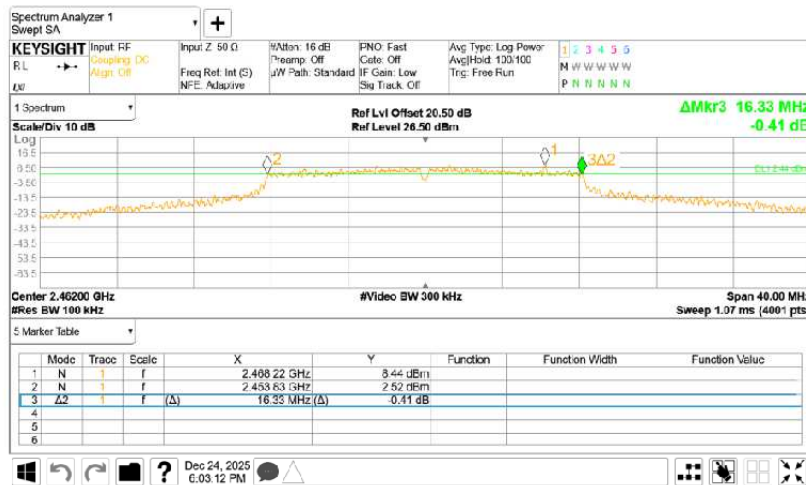
## Chain1 : 6dB Bandwidth @ 802.11g Mode Ch 1



## Chain1 : 6dB Bandwidth @ 802.11g Mode Ch 6



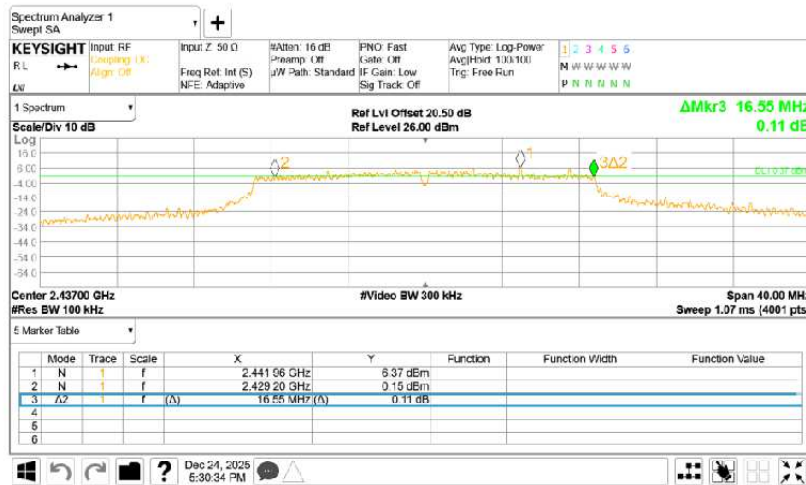
## Chain1 : 6dB Bandwidth @ 802.11g Mode Ch11



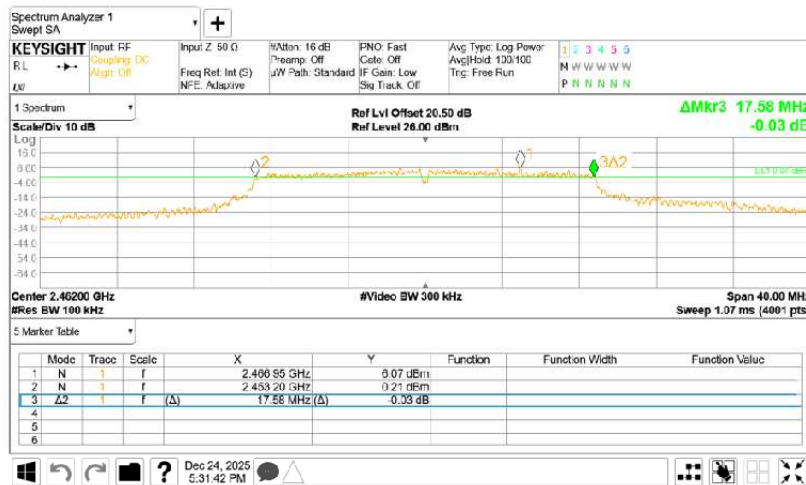
## Chain0 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 1



## Chain0 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 6



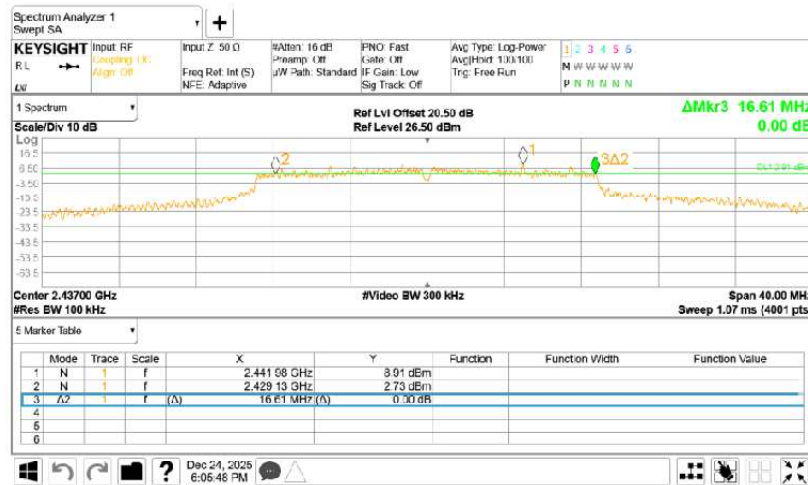
## Chain0 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch11



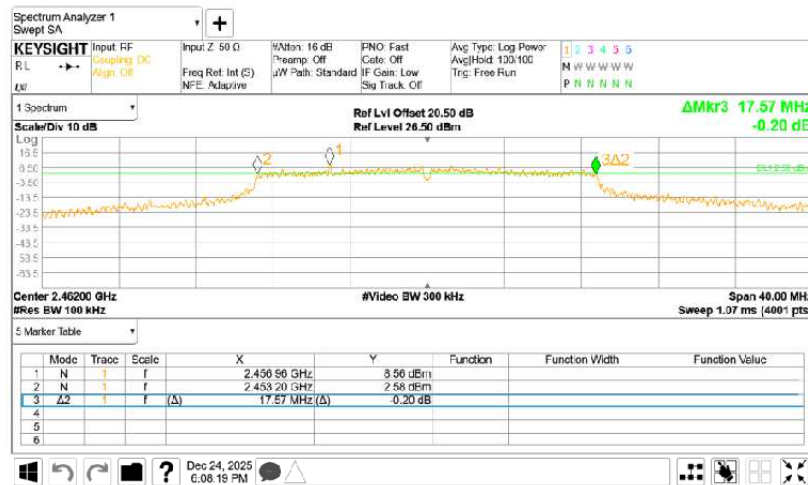
## Chain1 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 1



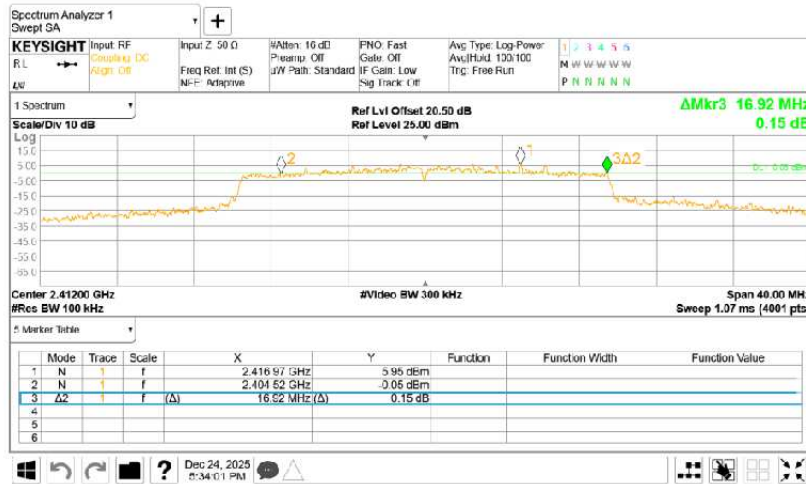
## Chain1 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 6



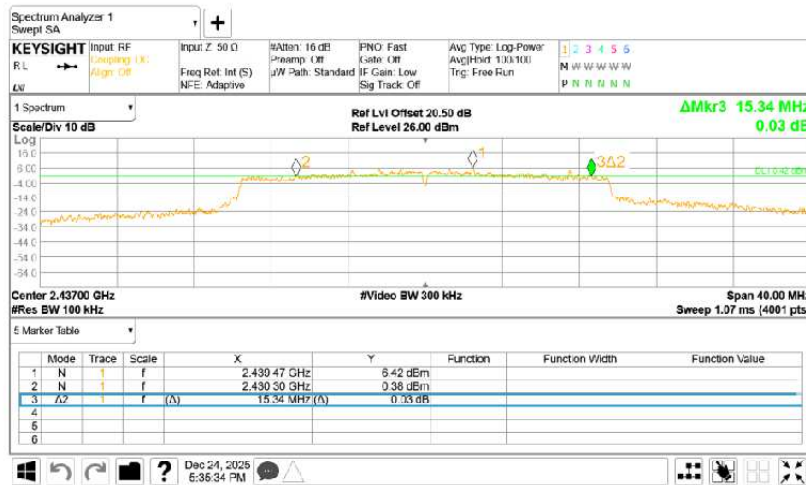
## Chain1 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch11



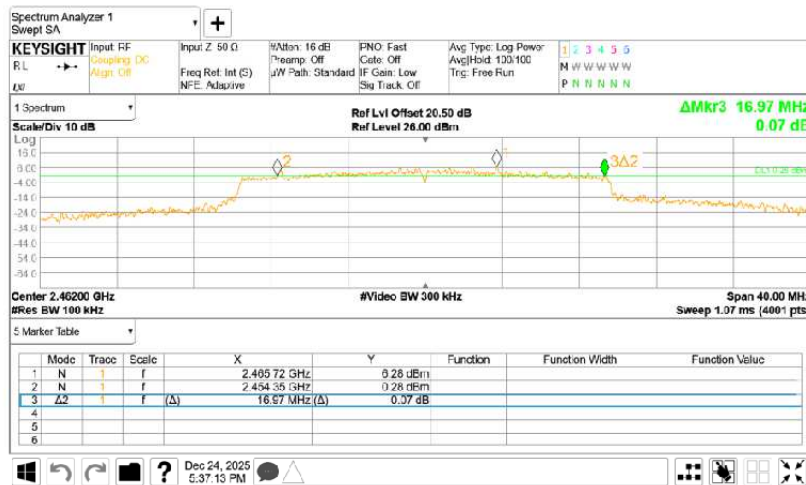
### Chain0 : 6dB Bandwidth @ 802.11ax(HE20) Mode Ch 1



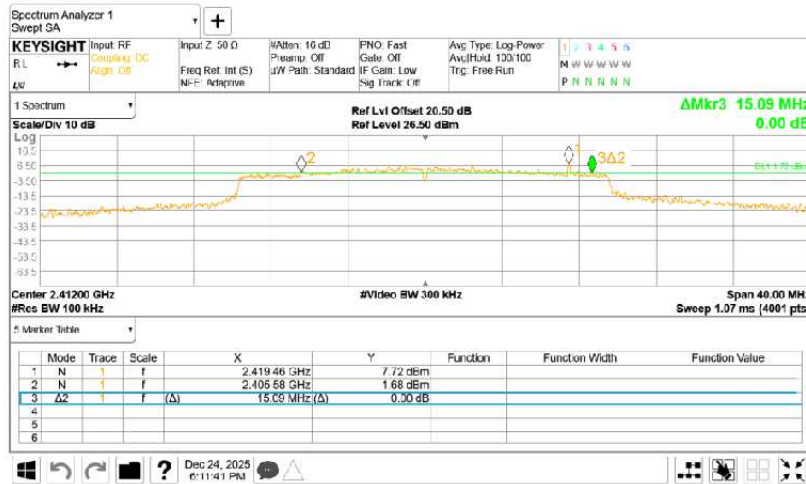
### Chain0 : 6dB Bandwidth @ 802.11ax(HE20) Mode Ch 6



### Chain0 : 6dB Bandwidth @ 802.11ax(HE20) Mode Ch 11



## Chain1 : 6dB Bandwidth @ 802.11ax(HE20) Mode Ch 1



## Chain1 : 6dB Bandwidth @ 802.11ax(HE20) Mode Ch 6



## Chain1 : 6dB Bandwidth @ 802.11ax(HE20) Mode Ch 11



### 3. Maximum Peak Conducted Output Power

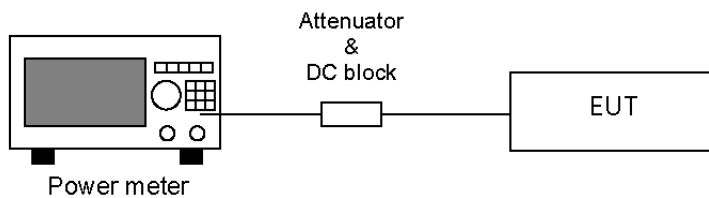
#### 3.1 Instrument Setting

| Power Meter Parameter | Setting                                                    |
|-----------------------|------------------------------------------------------------|
| Bandwidth             | 65MHz bandwidth is greater than the EUT emission bandwidth |
| Detector              | Peak & Average                                             |

#### 3.2 Test Procedure

The preferred methodology is to use integrated average power measurements, as described in 11.9.2 and 11.13.3 of ANSI C63.10. The peak integrated band power methods of 11.9.1.2 and 11.13.3.2 of ANSI C63.10 are not applicable for FCC compliance testing purposes.

#### 3.3 Test Diagram



#### 3.4 Limit

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt (30dBm)

### 3.5 Test Results

|                         |            |
|-------------------------|------------|
| Test model:             | 68301      |
| Temperature (°C) :      | 22         |
| Relative Humidity (%) : | 65         |
| Test date :             | 2025/12/24 |

| Mode                  | Channel | Output Power (dBm) |       |         |       | Output Power (mW) |        |         |        | Total Power (dBm) |           |          |           | Limit (dBm) | Margin (dB) |
|-----------------------|---------|--------------------|-------|---------|-------|-------------------|--------|---------|--------|-------------------|-----------|----------|-----------|-------------|-------------|
|                       |         | Chian 0            |       | Chain 1 |       | Chain 0           |        | Chian 1 |        | AV                |           | PK       |           |             |             |
|                       |         | AV                 | PK    | AV      | PK    | AV                | PK     | AV      | PK     | 0+1 (mW)          | 0+1 (dBm) | 0+1 (mW) | 0+1 (dBm) |             |             |
| 802.11b<br>(Chain0+1) | 1       | 16.40              | 18.93 | 18.67   | 21.49 | 43.65             | 78.16  | 73.62   | 140.93 | 117.27            | 20.69     | 219.09   | 23.41     | 30.00       | -6.59       |
|                       | 6       | 17.83              | 20.74 | 19.32   | 21.91 | 60.67             | 118.58 | 85.51   | 155.24 | 146.18            | 21.65     | 273.82   | 24.37     | 30.00       | -5.63       |
|                       | 11      | 18.25              | 21.00 | 19.48   | 22.22 | 66.83             | 125.89 | 88.72   | 166.72 | 155.55            | 21.92     | 292.62   | 24.66     | 30.00       | -5.34       |

| Mode                  | Channel | Output Power (dBm) |       |         |       | Output Power (mW) |        |         |        | Total Power (dBm) |           |          |           | Limit (dBm) | Margin (dB) |
|-----------------------|---------|--------------------|-------|---------|-------|-------------------|--------|---------|--------|-------------------|-----------|----------|-----------|-------------|-------------|
|                       |         | Chian 0            |       | Chain 1 |       | Chain 0           |        | Chian 1 |        | AV                |           | PK       |           |             |             |
|                       |         | AV                 | PK    | AV      | PK    | AV                | PK     | AV      | PK     | 0+1 (mW)          | 0+1 (dBm) | 0+1 (mW) | 0+1 (dBm) |             |             |
| 802.11g<br>(Chain0+1) | 1       | 18.25              | 23.27 | 19.42   | 23.53 | 66.83             | 212.32 | 87.50   | 225.42 | 154.33            | 21.88     | 437.75   | 26.41     | 30.00       | -3.59       |
|                       | 6       | 18.37              | 23.48 | 19.78   | 24.15 | 68.71             | 222.84 | 95.06   | 260.02 | 163.77            | 22.14     | 482.86   | 26.84     | 30.00       | -3.16       |
|                       | 11      | 18.79              | 23.32 | 20.28   | 24.40 | 75.68             | 214.78 | 106.66  | 275.42 | 182.34            | 22.61     | 490.21   | 26.90     | 30.00       | -3.10       |

| Mode                            | Channel | Output Power (dBm) |       |         |       | Output Power (mW) |        |         |        | Total Power (dBm) |           |          |           | Limit (dBm) | Margin (dB) |
|---------------------------------|---------|--------------------|-------|---------|-------|-------------------|--------|---------|--------|-------------------|-----------|----------|-----------|-------------|-------------|
|                                 |         | Chian 0            |       | Chain 1 |       | Chain 0           |        | Chian 1 |        | AV                |           | PK       |           |             |             |
|                                 |         | AV                 | PK    | AV      | PK    | AV                | PK     | AV      | PK     | 0+1 (mW)          | 0+1 (dBm) | 0+1 (mW) | 0+1 (dBm) |             |             |
| 802.11n<br>(HT20)<br>(Chain0+1) | 1       | 17.75              | 22.96 | 19.75   | 23.82 | 59.57             | 197.70 | 94.41   | 240.99 | 153.97            | 21.87     | 438.69   | 26.42     | 30.00       | -3.58       |
|                                 | 6       | 18.19              | 22.62 | 20.56   | 24.28 | 65.92             | 182.81 | 113.76  | 267.92 | 179.68            | 22.55     | 450.73   | 26.54     | 30.00       | -3.46       |
|                                 | 11      | 18.60              | 23.33 | 20.56   | 24.36 | 72.44             | 215.28 | 113.76  | 272.90 | 186.21            | 22.70     | 488.18   | 26.89     | 30.00       | -3.11       |

| Mode                             | Channel | Output Power (dBm) |       |         |       | Output Power (mW) |        |         |        | Total Power (dBm) |           |          |           | Limit (dBm) | Margin (dB) |
|----------------------------------|---------|--------------------|-------|---------|-------|-------------------|--------|---------|--------|-------------------|-----------|----------|-----------|-------------|-------------|
|                                  |         | Chian 0            |       | Chain 1 |       | Chain 0           |        | Chian 1 |        | AV                |           | PK       |           |             |             |
|                                  |         | AV                 | PK    | AV      | PK    | AV                | PK     | AV      | PK     | 0+1 (mW)          | 0+1 (dBm) | 0+1 (mW) | 0+1 (dBm) |             |             |
| 802.11ax<br>(HE20)<br>(Chain0+1) | 1       | 17.74              | 22.34 | 20.21   | 24.07 | 59.43             | 171.40 | 104.95  | 255.27 | 164.38            | 22.16     | 426.67   | 26.30     | 30.00       | -3.70       |
|                                  | 6       | 17.88              | 23.29 | 20.41   | 24.53 | 61.38             | 213.30 | 109.90  | 283.79 | 171.28            | 22.34     | 497.10   | 26.96     | 30.00       | -3.04       |
|                                  | 11      | 18.48              | 23.96 | 20.41   | 24.65 | 70.47             | 248.89 | 109.90  | 291.74 | 180.37            | 22.56     | 540.63   | 27.33     | 30.00       | -2.67       |

## 4. Power Spectral Density

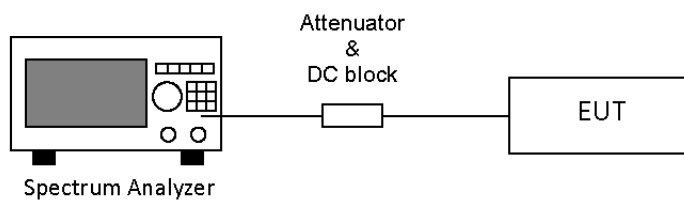
### 4.1 Instrument Setting

| Spectrum Function | Setting                   |
|-------------------|---------------------------|
| Detector          | Peak                      |
| RBW               | $\geq 3$ kHz              |
| VBW               | $\geq 3 \times$ RBW       |
| Sweep             | Auto couple               |
| Trace             | Max hold                  |
| Span              | 1.5 times x 6dB bandwidth |
| Attenuation       | Auto                      |

### 4.2 Test Procedure

|        |                                                                                                                                                                                                |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 1 | Test procedure refer to subclause 11.10 of ANSI C63.10.                                                                                                                                        |
| Step 2 | Using the maximum conducted output power in the fundamental emission demonstrates compliance. The EUT must be configured to transmit continuously at full power over the measurement duration. |
| Step 3 | Use the peak marker function to determine the maximum amplitude level within the RBW.                                                                                                          |

### 4.3 Test Diagram



### 4.4 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

#### 4.5 Test Results

|                         |            |
|-------------------------|------------|
| Test model:             | 68301      |
| Temperature (°C) :      | 22         |
| Relative Humidity (%) : | 72         |
| Test date :             | 2025/12/24 |

| Mode                  | Channel | Frequency (MHz) | PSD (dBm) |        | Total PSD |      | Limit (dBm) | Margin (dB) |
|-----------------------|---------|-----------------|-----------|--------|-----------|------|-------------|-------------|
|                       |         |                 | Chain0    | Chain1 | mW        | dBm  |             |             |
| 802.11b<br>(Chain0+1) | 1       | 2412            | 1.58      | 2.55   | 3.24      | 5.10 | 8           | -2.90       |
|                       | 6       | 2437            | 1.39      | 1.63   | 2.83      | 4.52 | 8           | -3.48       |
|                       | 11      | 2462            | 1.82      | 2.94   | 3.49      | 5.43 | 8           | -2.57       |

| Mode                  | Channel | Frequency (MHz) | PSD (dBm) |        | Total PSD |      | Limit (dBm) | Margin (dB) |
|-----------------------|---------|-----------------|-----------|--------|-----------|------|-------------|-------------|
|                       |         |                 | Chain0    | Chain1 | mW        | dBm  |             |             |
| 802.11g<br>(Chain0+1) | 1       | 2412            | -1.79     | 0.01   | 1.66      | 2.21 | 8           | -5.79       |
|                       | 6       | 2437            | -0.35     | 1.45   | 2.32      | 3.65 | 8           | -4.35       |
|                       | 11      | 2462            | -0.06     | 1.45   | 2.38      | 3.77 | 8           | -4.23       |

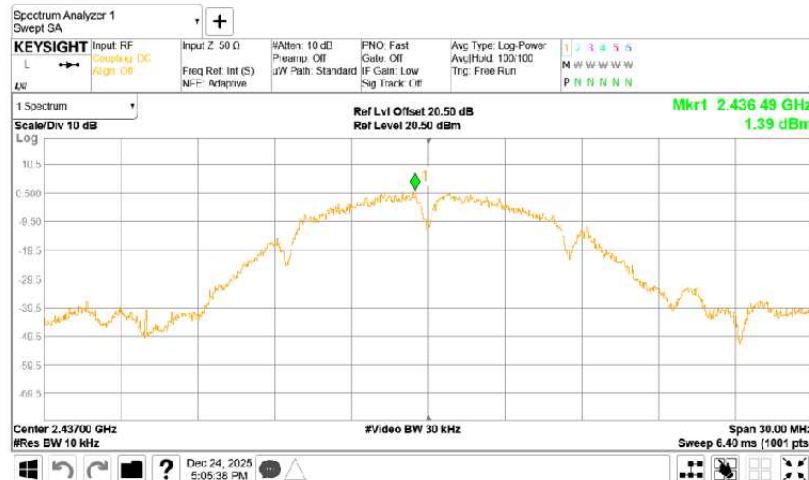
| Mode                        | Channel | Frequency (MHz) | PSD (dBm) |        | Total PSD |      | Limit (dBm) | Margin (dB) |
|-----------------------------|---------|-----------------|-----------|--------|-----------|------|-------------|-------------|
|                             |         |                 | Chain0    | Chain1 | mW        | dBm  |             |             |
| 802.11n(HT20)<br>(Chain0+1) | 1       | 2412            | -1.24     | -0.18  | 1.71      | 2.33 | 8           | -5.67       |
|                             | 6       | 2437            | -1.06     | 0.54   | 1.92      | 2.82 | 8           | -5.18       |
|                             | 11      | 2462            | -0.24     | 1.24   | 2.28      | 3.57 | 8           | -4.43       |

| Mode                             | Channel | Frequency (MHz) | PSD (dBm) |        | Total PSD |      | Limit (dBm) | Margin (dB) |
|----------------------------------|---------|-----------------|-----------|--------|-----------|------|-------------|-------------|
|                                  |         |                 | Chain0    | Chain1 | mW        | dBm  |             |             |
| 802.11ax<br>(HE20)<br>(Chain0+1) | 1       | 2412            | -1.93     | -1.29  | 1.38      | 1.41 | 8           | -6.59       |
|                                  | 6       | 2437            | -1.04     | -0.29  | 1.72      | 2.36 | 8           | -5.64       |
|                                  | 11      | 2462            | -0.54     | -0.17  | 1.85      | 2.66 | 8           | -5.34       |

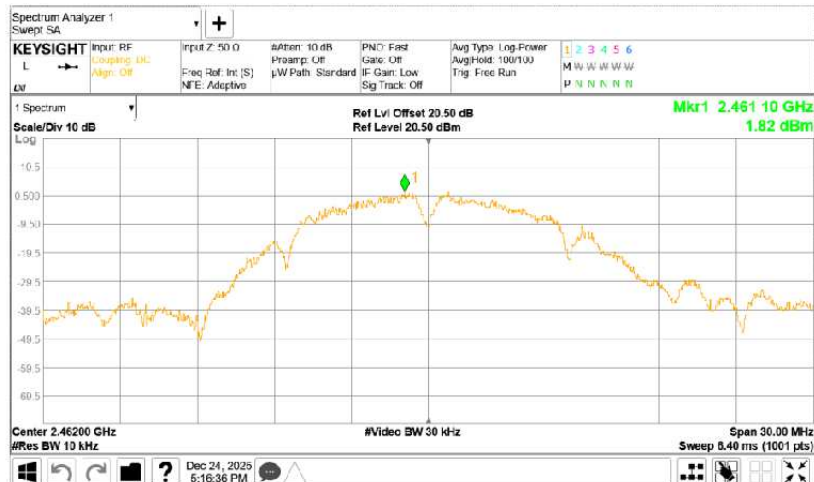
### Chain0 : Power Spectral Density @ 802.11b Mode Ch 1



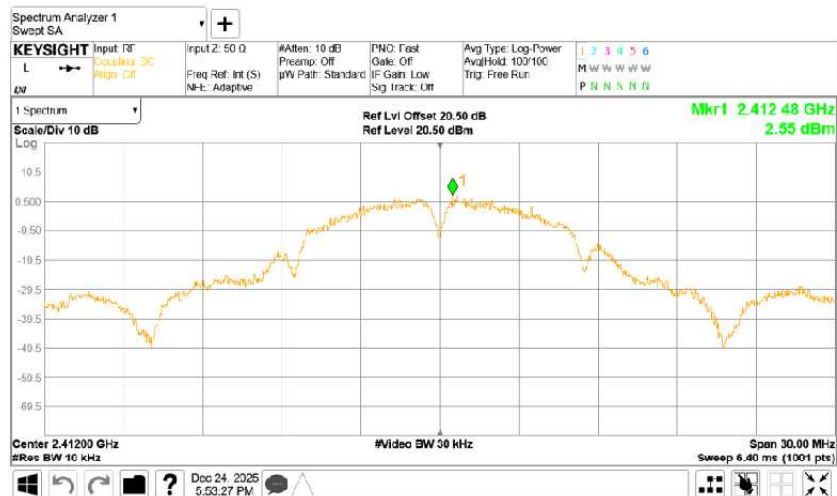
### Chain0 : Power Spectral Density @ 802.11b Mode Ch 6



### Chain0 : Power Spectral Density @ 802.11b Mode Ch11



**Chain1 : Power Spectral Density @ 802.11b Mode Ch 1**



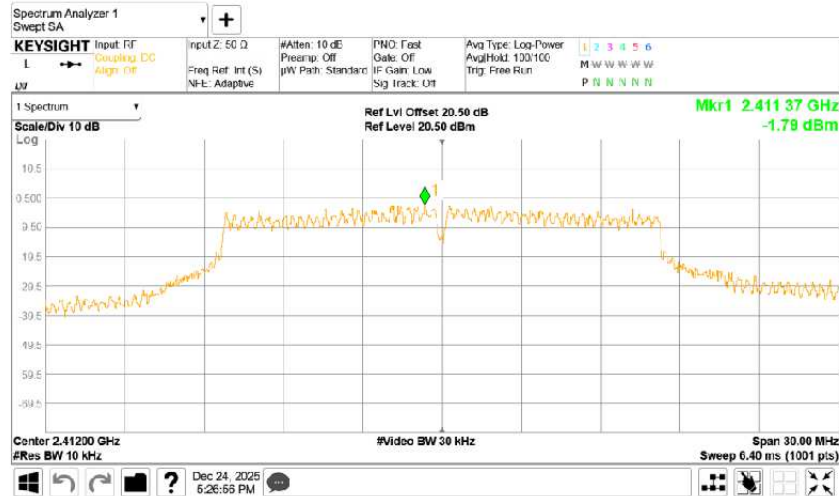
### Chain1 : Power Spectral Density @ 802.11b Mode Ch 6



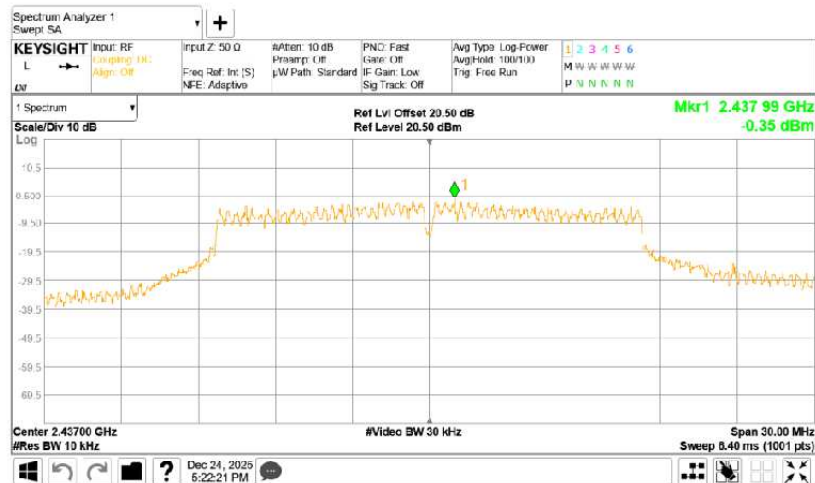
**Chain1 : Power Spectral Density @ 802.11b Mode Ch11**



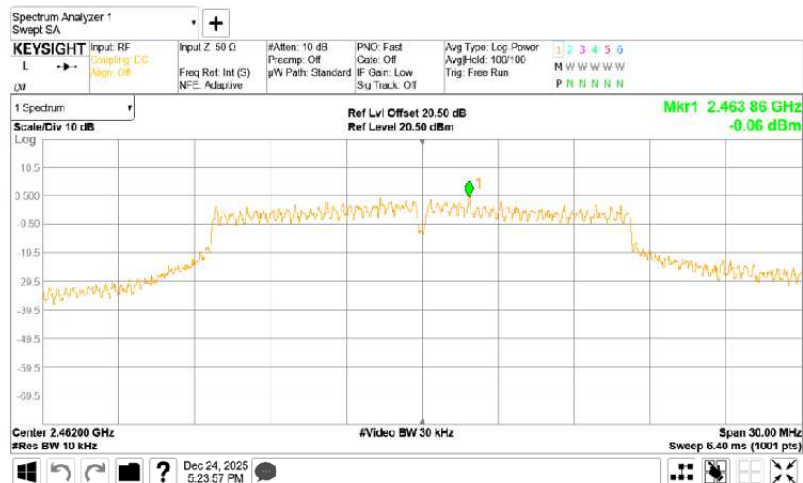
### Chain0 : Power Spectral Density @ 802.11g Mode Ch 1



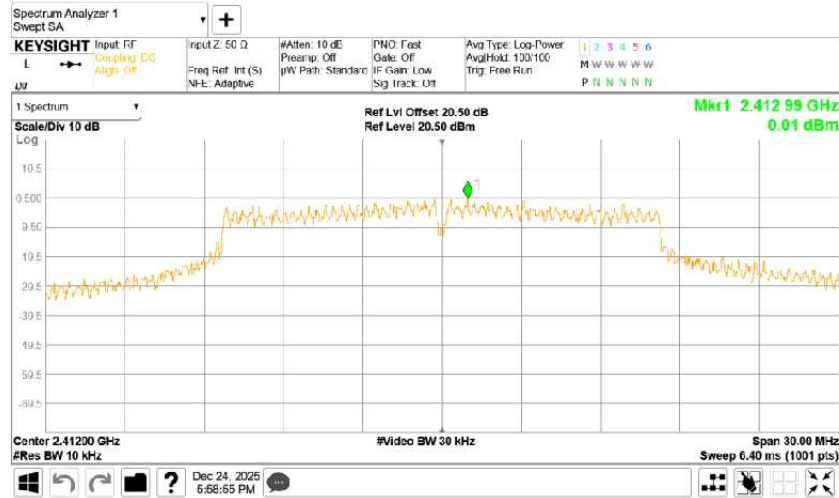
### Chain0 : Power Spectral Density @ 802.11g Mode Ch 6



### Chain0 : Power Spectral Density @ 802.11g Mode Ch11



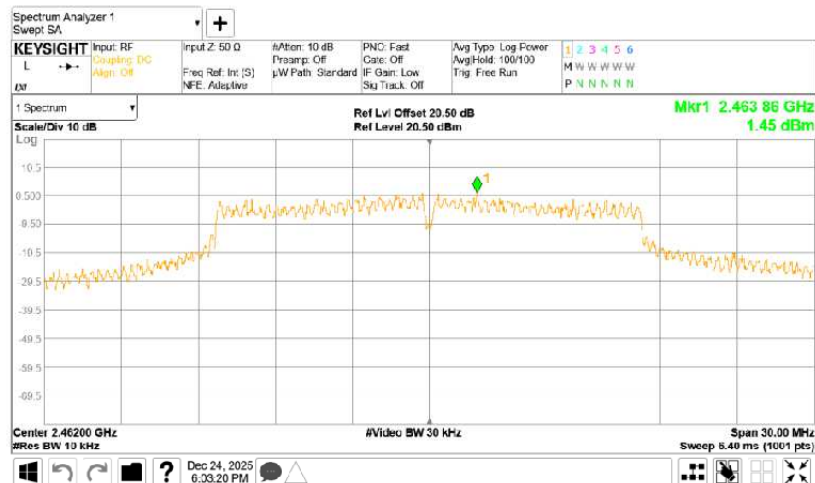
### Chain1 : Power Spectral Density @ 802.11g Mode Ch 1



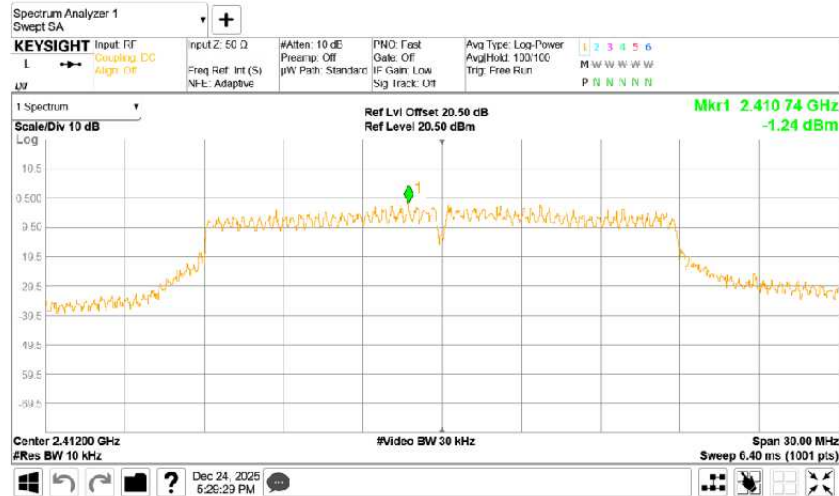
### Chain1 : Power Spectral Density @ 802.11g Mode Ch 6



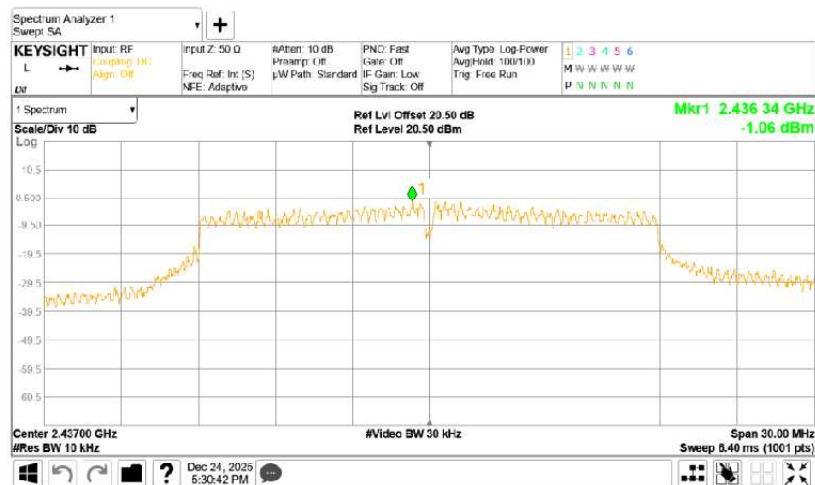
### Chain1 : Power Spectral Density @ 802.11g Mode Ch11



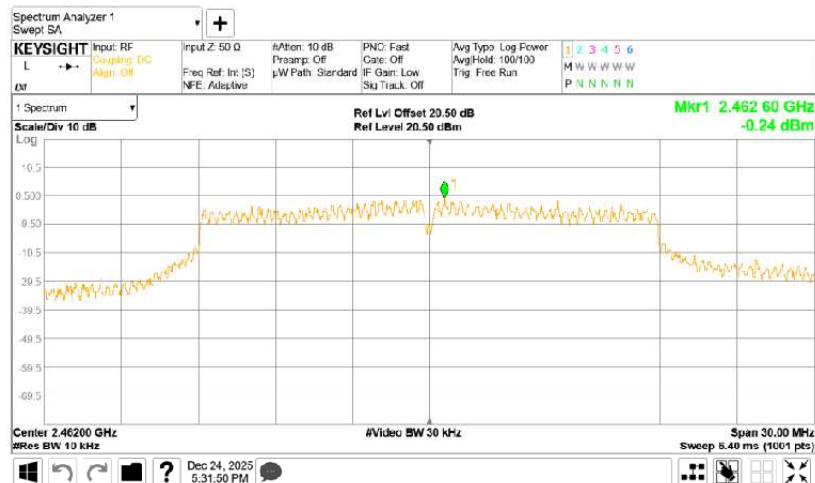
### Chain0 : Power Spectral Density @ 802.11n(HT20) Mode Ch 1



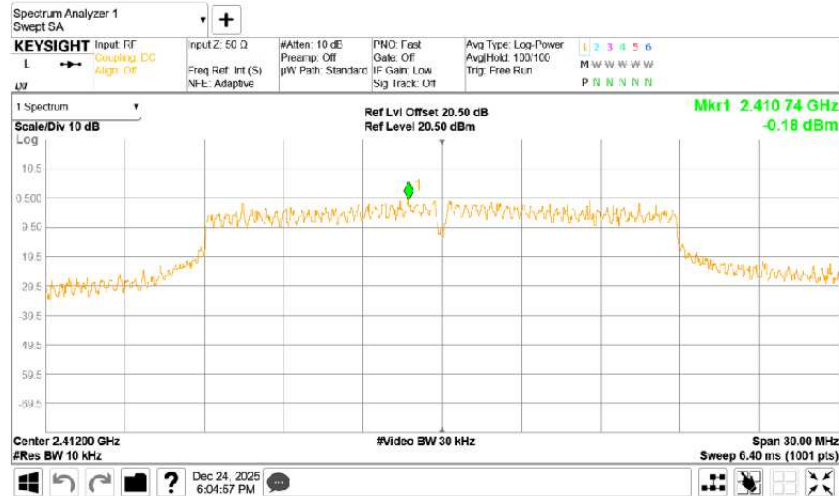
### Chain0 : Power Spectral Density @ 802.11n(HT20) Mode Ch 6



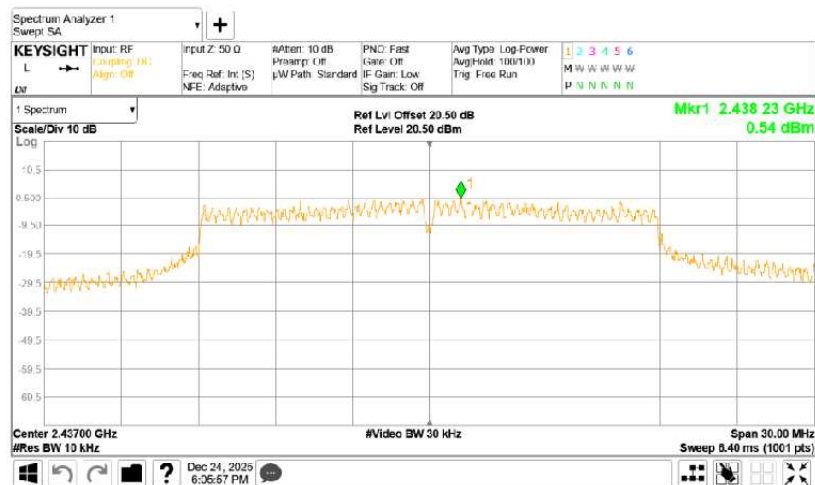
### Chain0 : Power Spectral Density @ 802.11n(HT20) Mode Ch11



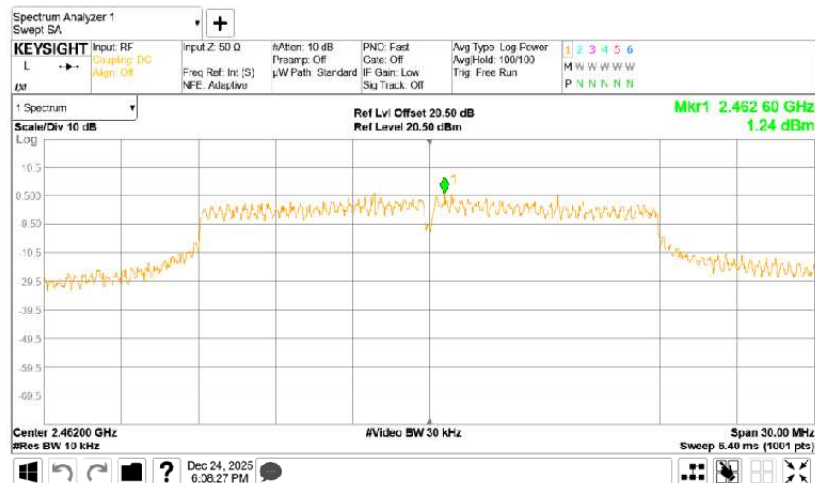
### Chain1 : Power Spectral Density @ 802.11n(HT20) Mode Ch 1



### Chain1 : Power Spectral Density @ 802.11n(HT20) Mode Ch 6



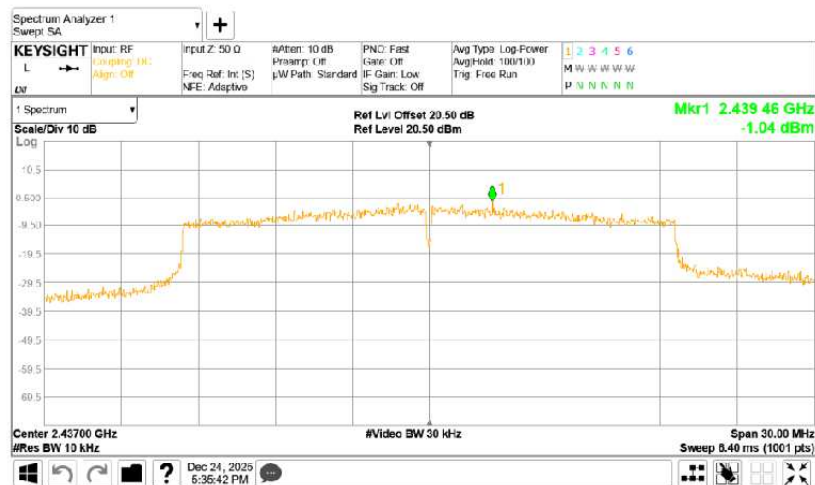
### Chain1 : Power Spectral Density @ 802.11n(HT20) Mode Ch11



### Chain0 : Power Spectral Density @ 802.11ax(HE20) Mode Ch 1



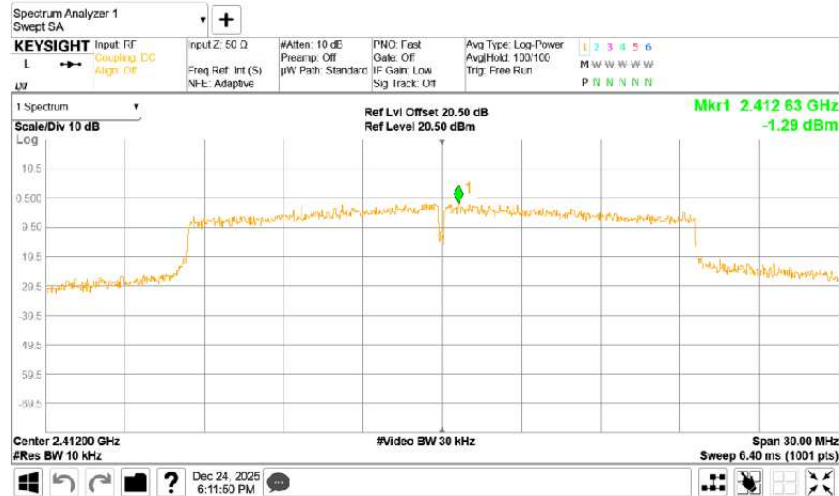
### Chain0 : Power Spectral Density @ 802.11ax(HE20) Mode Ch 6



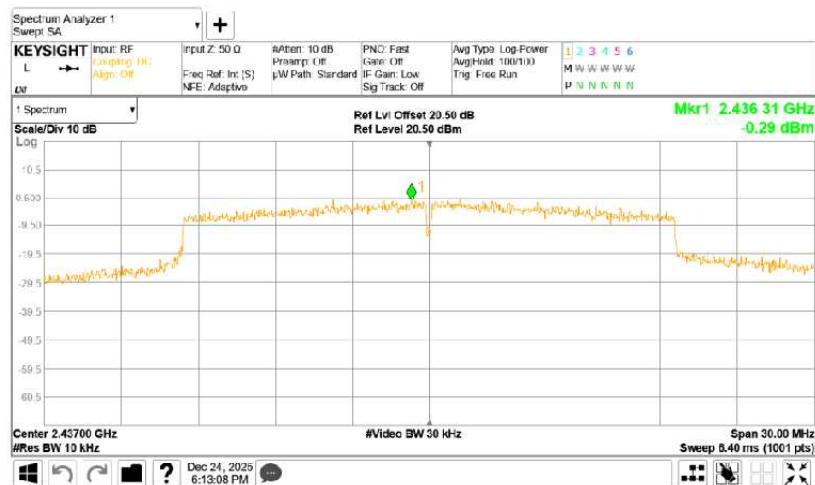
### Chain0 : Power Spectral Density @ 802.11ax(HE20) Mode Ch 11



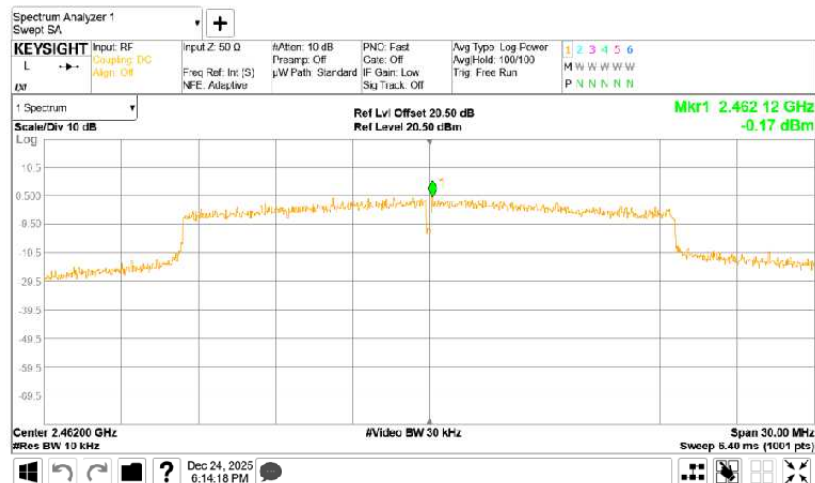
### Chain1 : Power Spectral Density @ 802.11ax(HE20) Mode Ch 1



### Chain1 : Power Spectral Density @ 802.11ax(HE20) Mode Ch 6



### Chain1 : Power Spectral Density @ 802.11ax(HE20) Mode Ch 11



## 5. Emissions in Non-Restricted Frequency Bands

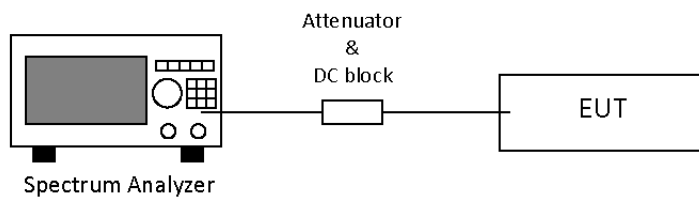
### 5.1 Instruments Setting

| Spectrum Function | Setting (Reference Level)     | Setting (Emission Level) |
|-------------------|-------------------------------|--------------------------|
| Detector          | Peak                          | Peak                     |
| RBW               | $\geq 100$ kHz                | $\geq 100$ kHz           |
| VBW               | $\geq 3 \times$ RBW           | $\geq 3 \times$ RBW      |
| Sweep             | Auto couple                   | Auto couple              |
| Trace             | Max hold                      | Max hold                 |
| Span              | $\geq 1.5$ time 6dB bandwidth |                          |
| Attenuation       | Auto                          | Auto                     |

### 5.2 Test Procedure

- Step 1 The procedure was used in antenna-port conducted and connected to the spectrum analyzer.
- Step 2 Set instrument center frequency to center frequency.
- Step 3 Use the parameter configured in subclause 11.11 of ANSI C63.10 to measure.
- Step 4 Use the peak marker function to determine the maximum amplitude level.

### 5.3 Test Diagram



### 5.4 Limit

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

### 5.5 Test Results

|                        |            |
|------------------------|------------|
| Test model:            | 68301      |
| Temperature (°C):      | 22         |
| Relative Humidity (%): | 65         |
| Test date:             | 2025/12/24 |

| Mode            | Chain   | Channel | Frequency (MHz) | Delta (dBc) | Limit (dBc) |
|-----------------|---------|---------|-----------------|-------------|-------------|
| 802.11b         | Chain 0 | 1       | 2412            | 29.95       | >20         |
|                 |         | 6       | 2437            | 54.91       | >20         |
|                 |         | 11      | 2462            | 47.66       | >20         |
| 802.11b         | Chain 1 | 1       | 2412            | 32.64       | >20         |
|                 |         | 6       | 2437            | 58.99       | >20         |
|                 |         | 11      | 2462            | 49.19       | >20         |
| 802.11g         | Chain 0 | 1       | 2412            | 29.09       | >20         |
|                 |         | 6       | 2437            | 44.94       | >20         |
|                 |         | 11      | 2462            | 31.06       | >20         |
| 802.11g         | Chain 1 | 1       | 2412            | 26.75       | >20         |
|                 |         | 6       | 2437            | 48.05       | >20         |
|                 |         | 11      | 2462            | 31.72       | >20         |
| 802.11n (HT20)  | Chain 0 | 1       | 2412            | 30.20       | >20         |
|                 |         | 6       | 2437            | 45.10       | >20         |
|                 |         | 11      | 2462            | 30.94       | >20         |
| 802.11n (HT20)  | Chain 1 | 1       | 2412            | 20.67       | >20         |
|                 |         | 6       | 2437            | 48.00       | >20         |
|                 |         | 11      | 2462            | 28.39       | >20         |
| 802.11ax (HE20) | Chain 0 | 1       | 2412            | 29.64       | >20         |
|                 |         | 6       | 2437            | 45.36       | >20         |
|                 |         | 11      | 2462            | 29.43       | >20         |
| 802.11ax (HE20) | Chain 1 | 1       | 2412            | 24.53       | >20         |
|                 |         | 6       | 2437            | 48.90       | >20         |
|                 |         | 11      | 2462            | 28.52       | >20         |

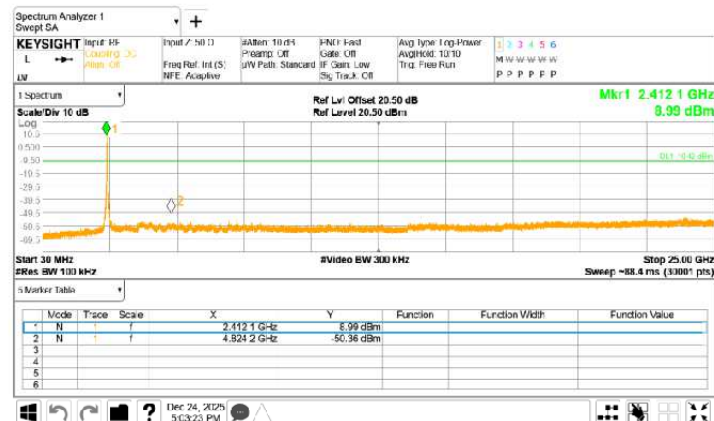
### Chain0 : Conducted Spurious @ 802.11b Mode Ch 1



### Chain0 : Conducted Spurious @ 802.11b Mode Ch 1



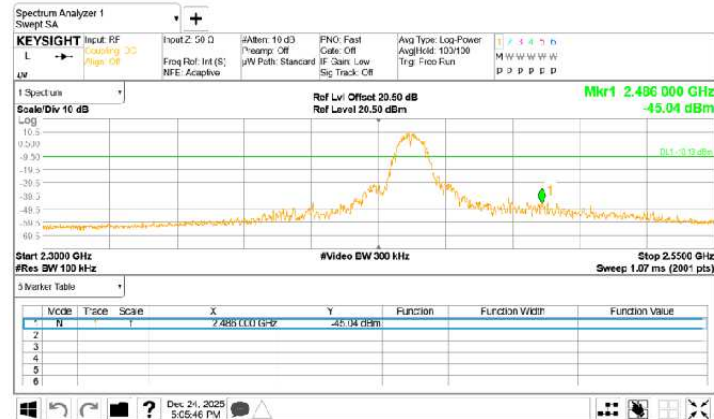
### Chain0 : Conducted Spurious @ 802.11b Mode Ch 1



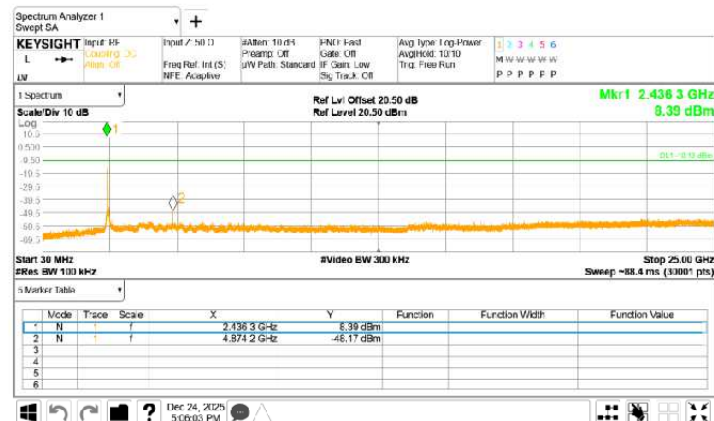
### Chain0 : Conducted Spurious @ 802.11b Mode Ch 6



### Chain0 : Conducted Spurious @ 802.11b Mode Ch 6



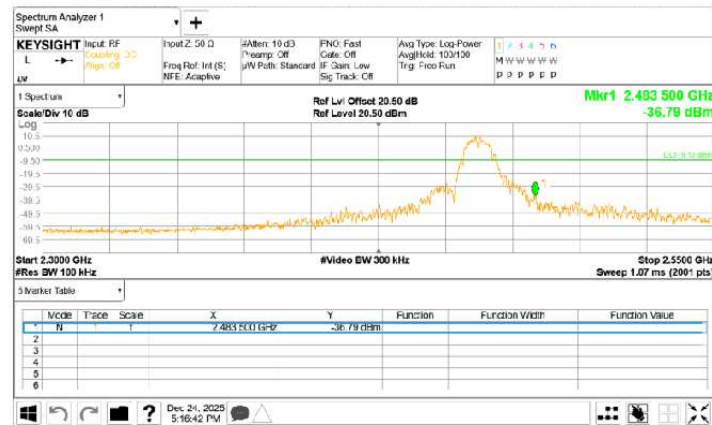
### Chain0 : Conducted Spurious @ 802.11b Mode Ch 6



### Chain0 : Conducted Spurious @ 802.11b Mode Ch 11



### Chain0 : Conducted Spurious @ 802.11b Mode Ch 11



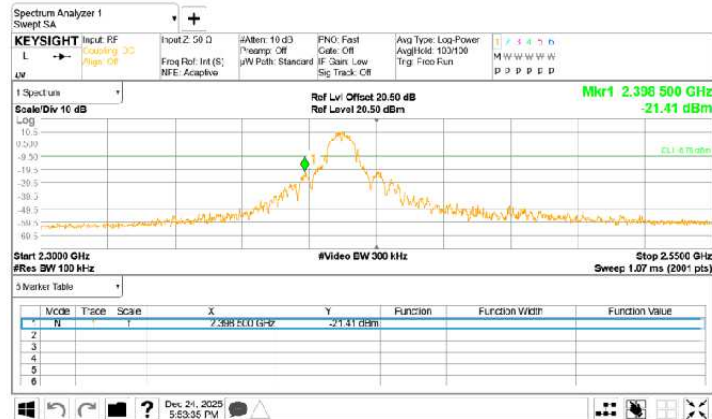
### Chain0 : Conducted Spurious @ 802.11b Mode Ch 11



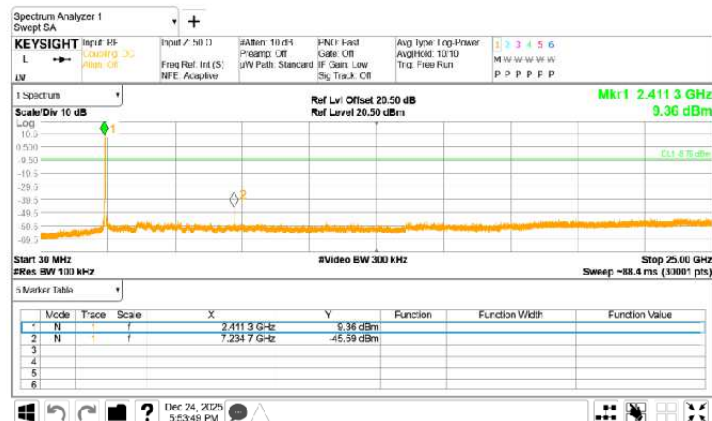
### Chain1 : Conducted Spurious @ 802.11b Mode Ch 1



### Chain1 : Conducted Spurious @ 802.11b Mode Ch 1



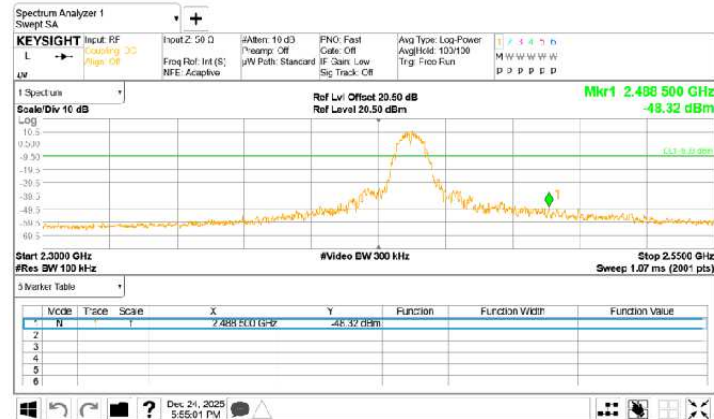
### Chain1 : Conducted Spurious @ 802.11b Mode Ch 1



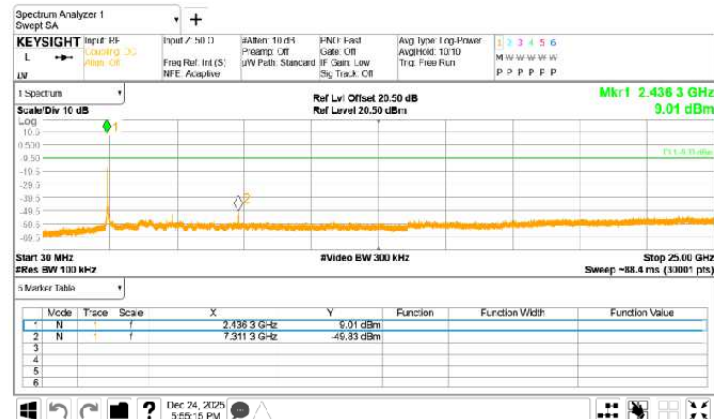
### Chain1 : Conducted Spurious @ 802.11b Mode Ch 6



### Chain1 : Conducted Spurious @ 802.11b Mode Ch 6



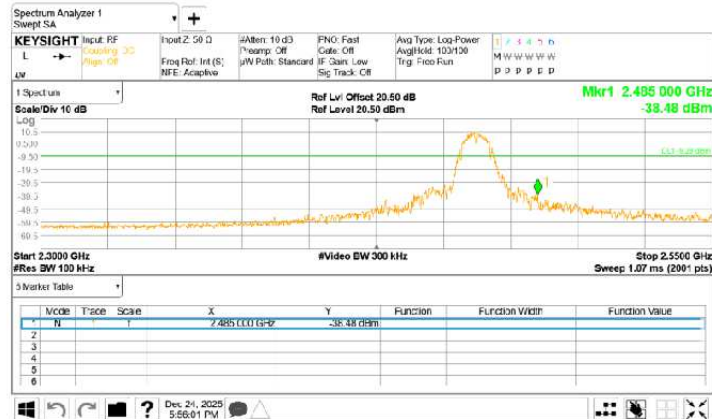
### Chain1 : Conducted Spurious @ 802.11b Mode Ch 6



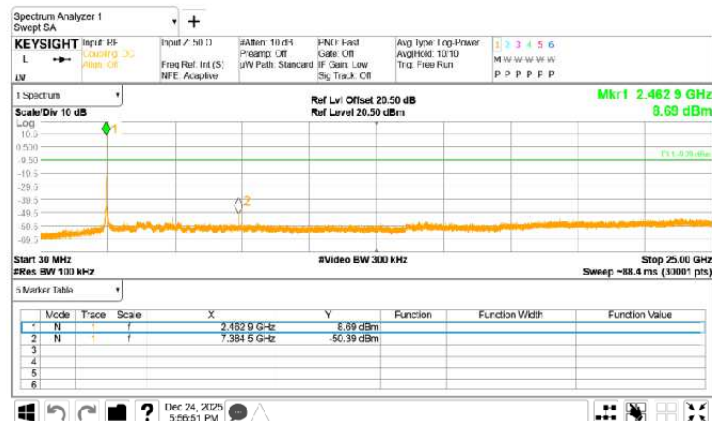
### Chain1 : Conducted Spurious @ 802.11b Mode Ch 11



### Chain1 : Conducted Spurious @ 802.11b Mode Ch 11



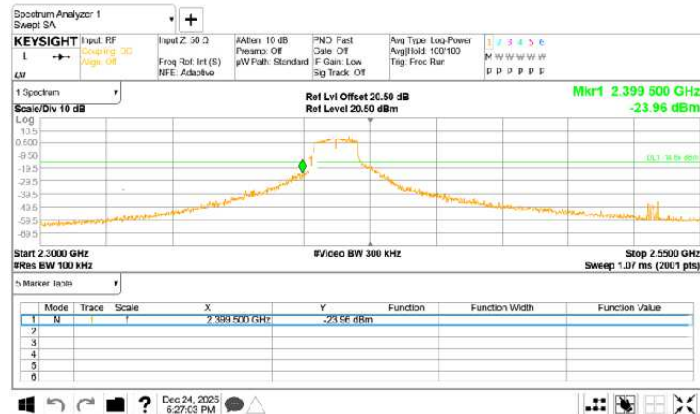
### Chain1 : Conducted Spurious @ 802.11b Mode Ch 11



### Chain0 : Conducted Spurious @ 802.11g Mode Ch 1



### Chain0 : Conducted Spurious @ 802.11g Mode Ch 1



### Chain0 : Conducted Spurious @ 802.11g Mode Ch 1

