

# TEST REPORT

Applicant Name: Fanvil Technology Co., LTD.  
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North 2nd Road, Bao'an District, Shenzhen, 518101, China  
Report Number: 2401Y98612E-RF-00C  
FCC ID: 2APPZ-V60W

## Test Standard (s)

FCC PART 15.247

## Sample Description

Product Type: IP Phone  
Model No.: V60W  
Multiple Model(s) No.: N/A  
Trade Mark: **Fanvil**  
Date Received: 2024-10-10  
Issue Date: 2024-12-18

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

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Jack Zeng  
RF Engineer

## Approved By:

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Jimmy Xiao  
EMC Manager

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 0               | 2401Y98612E-RF-00C | Original Report         | 2024-12-18       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                                                                                                                                                                                                                                                                                          | 2412~2462MHz                                                                                                                                                                                                     |
| Mode                                                                                                                                                                                                                                                                                                     | 802.11b/g/n20/n40/ax20/ax40                                                                                                                                                                                      |
| Maximum Conducted Output Peak Power                                                                                                                                                                                                                                                                      | 21.53dBm                                                                                                                                                                                                         |
| Modulation Technique                                                                                                                                                                                                                                                                                     | DSSS, OFDM, OFDMA                                                                                                                                                                                                |
| Antenna Specification <sup>#</sup>                                                                                                                                                                                                                                                                       | 3.9dBi (provided by the applicant)                                                                                                                                                                               |
| Voltage Range                                                                                                                                                                                                                                                                                            | DC 5V from adapter                                                                                                                                                                                               |
| Sample serial number                                                                                                                                                                                                                                                                                     | 2SLQ-1 for Conducted and Radiated Emissions Test<br>2SLQ-7 for RF Conducted Test (Assigned by BACL, Shenzhen)                                                                                                    |
| Sample/EUT Status                                                                                                                                                                                                                                                                                        | Good condition                                                                                                                                                                                                   |
| Adapter Information                                                                                                                                                                                                                                                                                      | Adapter 1<br>Model: DCT06W050100US-D0<br>Input: AC 100-240V, 50/60Hz, 200mA<br>Output: DC 5.0V, 1.0A<br>Adapter 2<br>Model: F05L5-050100SPAU<br>Input: AC 100-240V, 50/60Hz, 0.2A<br>Output: DC 5.0V, 1.0A, 5.0W |
| Note1: the EUT only supports the full RU for the 80211ax mode.<br>Note 2: For the AC Line conducted emission, the worst case is powered by the PoE according to the NII report.<br>Note 3: For the radiated emission below 1GHz, the worst case is powered by the adapter 2 according to the NII report. |                                                                                                                                                                                                                  |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                          |                             | Uncertainty                            |
|------------------------------------|-----------------------------|----------------------------------------|
| Occupied Channel Bandwidth         |                             | 109.2kHz(k=2, 95% level of confidence) |
| RF output power, conducted         |                             | 0.86dB(k=2, 95% level of confidence)   |
| AC Power Lines Conducted Emissions | 9kHz~150 kHz                | 3.63dB(k=2, 95% level of confidence)   |
|                                    | 150 kHz ~30MHz              | 3.66dB(k=2, 95% level of confidence)   |
| Radiated Emissions                 | 0.009MHz~30MHz              | 3.60dB(k=2, 95% level of confidence)   |
|                                    | 30MHz~200MHz (Horizontal)   | 5.32dB(k=2, 95% level of confidence)   |
|                                    | 30MHz~200MHz (Vertical)     | 5.43dB(k=2, 95% level of confidence)   |
|                                    | 200MHz~1000MHz (Horizontal) | 5.77dB(k=2, 95% level of confidence)   |
|                                    | 200MHz~1000MHz (Vertical)   | 5.73dB(k=2, 95% level of confidence)   |
|                                    | 1GHz - 6GHz                 | 5.34dB(k=2, 95% level of confidence)   |
|                                    | 6GHz - 18GHz                | 5.40dB(k=2, 95% level of confidence)   |
|                                    | 18GHz - 40GHz               | 5.64dB(k=2, 95% level of confidence)   |
| Temperature                        |                             | ±1°C                                   |
| Humidity                           |                             | ±1%                                    |
| Supply voltages                    |                             | ±0.4%                                  |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 2.4GHz Wi-Fi mode, total 11 channels are provided to testing:

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

802.11b, 802.11g, 802.11n20 and 802.11ax20 mode was tested with Channel 1, 6 and 11.  
802.11n40 and 802.11ax40 mode was tested with Channel 3, 6 and 9.

### EUT Exercise Software

| Exercise Software <sup>#</sup> |           | SecureCRT_x86_7.1        |                |              |
|--------------------------------|-----------|--------------------------|----------------|--------------|
| Mode                           | Data rate | Power Level <sup>#</sup> |                |              |
|                                |           | Low Channel              | Middle Channel | High Channel |
| 802.11b                        | 1Mbps     | 9                        | 9              | 9            |
| 802.11g                        | 6Mbps     | 15                       | 15             | 15           |
| 802.11n20                      | MCS0      | 14                       | 14             | 14           |
| 802.11n40                      | MCS0      | 12                       | 12             | 12           |
| 802.11ax20                     | MCS0      | 14                       | 14             | 14           |
| 802.11ax40                     | MCS0      | 13                       | 13             | 13           |

### Special Accessories

No special accessory.

### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

| Manufacturer | Description | Model          | Serial Number |
|--------------|-------------|----------------|---------------|
| PHIHONG      | PoE         | POE29U-1AT(PL) | PH1253503JY   |
| Lenovo       | PC          | G40-70m        | YB08745628    |
| Snom         | Headset     | A310D          | 3177099       |

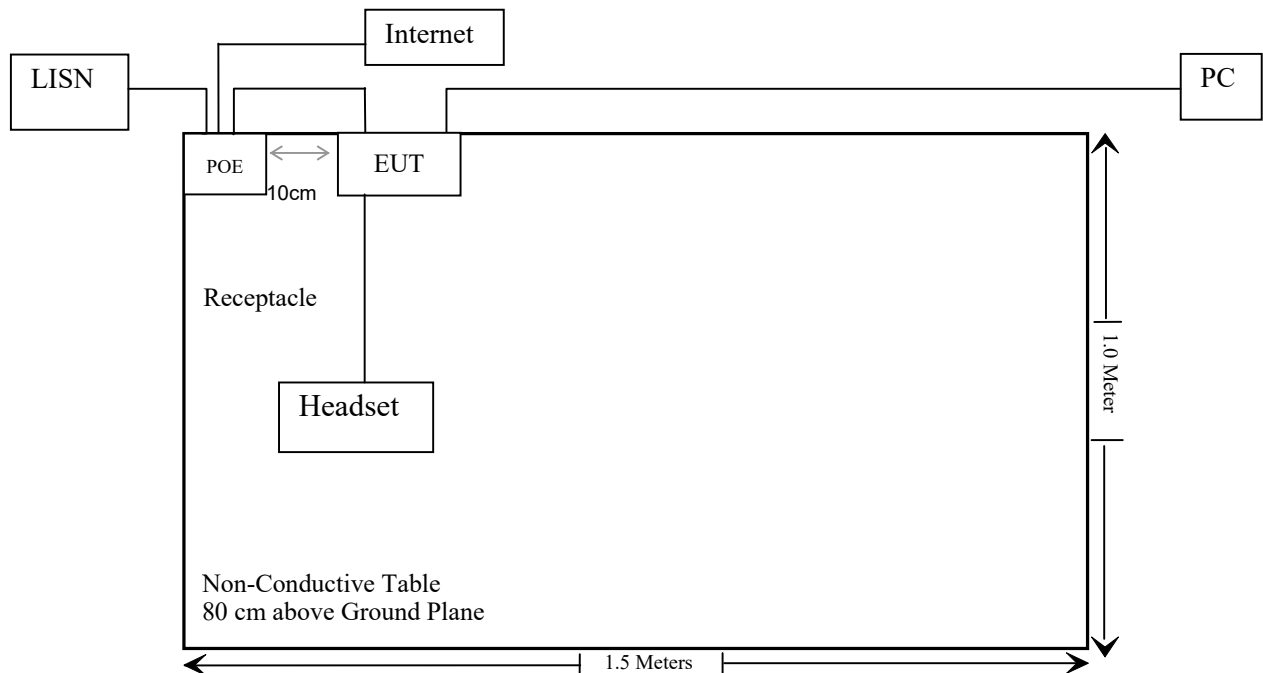
**External I/O Cable**

| Cable Description                      | Length (m) | From Port | To       |
|----------------------------------------|------------|-----------|----------|
| Unshielded Detachable RJ45 Cable       | 2.0        | EUT       | PC/PoE   |
| Unshielded detachable RJ45 cable       | 3.0        | EUT       | Internet |
| Unshielded Un-detachable headset Cable | 1.2        | EUT       | Headset  |
| Unshielded Un-detachable DC Cable      | 1.2        | EUT       | Adapter  |

**Block Diagram of Test Setup**

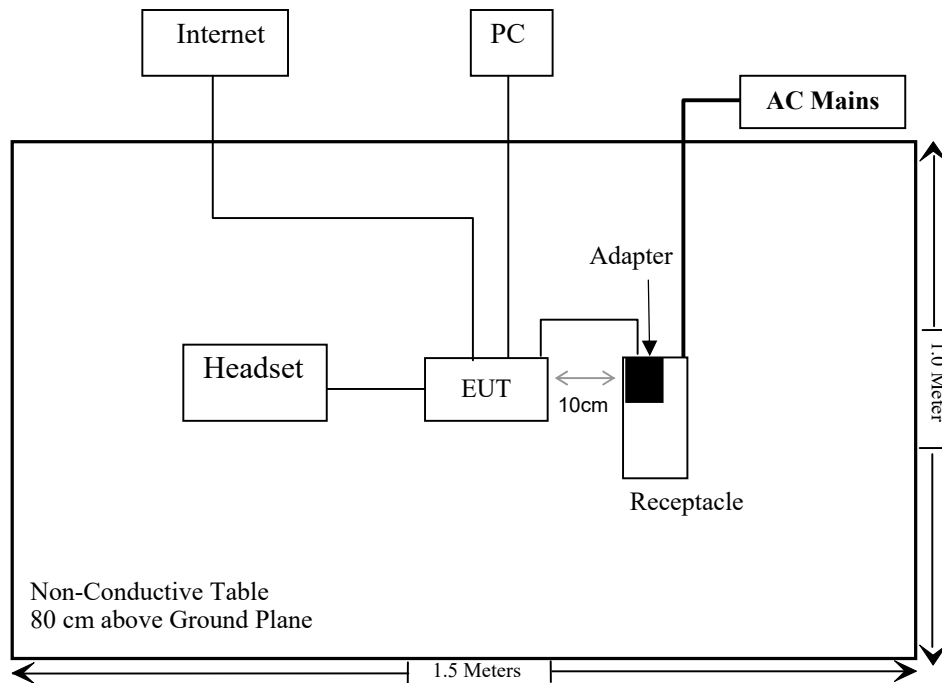
For Conducted Emissions:

For PoE

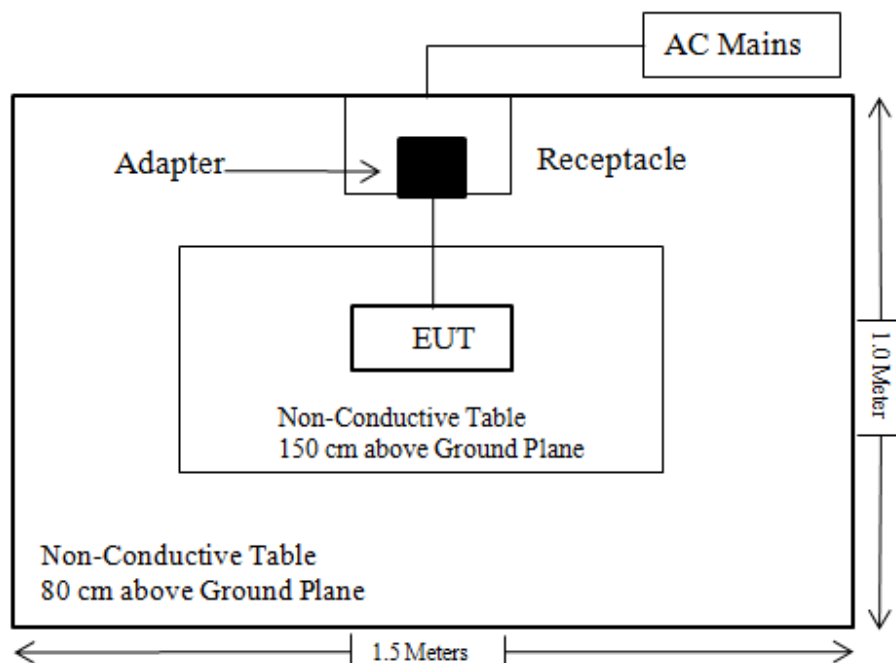


For Radiated Emissions below 1GHz:

For Adapter



For Radiated Emissions above 1GHz:



**SUMMARY OF TEST RESULTS**

| <b>FCC Rules</b>               | <b>Description of Test</b>               | <b>Result</b> |
|--------------------------------|------------------------------------------|---------------|
| FCC §15.203                    | Antenna Requirement                      | Compliant     |
| FCC §15.207(a)                 | AC Line Conducted Emissions              | Compliant     |
| FCC §15.205,§15.209,§15.247(d) | Radiated Spurious Emission               | Compliant     |
| FCC §15.207(a)(2)              | 6dB Emission Bandwidth                   | Compliant     |
| FCC §15.247(b)(1)              | Maximum Conducted Output Power           | Compliant     |
| FCC §15.247(d)                 | 100 kHz Bandwidth of Frequency Band Edge | Compliant     |
| FCC §15.247(e)                 | Power Spectral Density                   | Compliant     |
| C63.10 §11.6                   | Duty Cycle                               | Compliant     |
| FCC§15.247 (i), §2.1091        | Maximum Permissible Exposure(MPE)        | Compliant     |

**TEST EQUIPMENT LIST**

| Manufacturer                   | Description                       | Model             | Serial Number          | Calibration Date | Calibration Due Date |
|--------------------------------|-----------------------------------|-------------------|------------------------|------------------|----------------------|
| <b>Conducted Emission Test</b> |                                   |                   |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver                 | ESCI              | 101120                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | LISN                              | ENV216            | 101613                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | Transient Limiter                 | ESH3Z2            | DE25985                | 2024/05/21       | 2025/05/20           |
| Unknown                        | CE Cable                          | Unknown           | UF A210B-1-0720-504504 | 2024/05/21       | 2025/05/20           |
| Audix                          | EMI Test software                 | E3                | 191218(V9)             | NCR              | NCR                  |
| <b>Radiated Emission Test</b>  |                                   |                   |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver                 | ESR3              | 102455                 | 2024/01/16       | 2025/01/15           |
| Sonoma instrument              | Pre-amplifier                     | 310 N             | 186238                 | 2024/05/21       | 2025/05/20           |
| Sunol Sciences                 | Broadband Antenna                 | JB1               | A040904-1              | 2023/07/20       | 2026/07/19           |
| Unknown                        | Cable                             | Chamber A Cable 1 | N/A                    | 2024/06/18       | 2025/06/17           |
| Unknown                        | Cable                             | XH500C            | J-10M-A                | 2024/06/18       | 2025/06/17           |
| BACL                           | Active Loop Antenna               | 1313-1A           | 4031911                | 2024/05/14       | 2027/05/13           |
| Unknown                        | Cable                             | 2Y194             | 0735                   | 2024/05/21       | 2025/05/20           |
| Unknown                        | Cable                             | PNG214            | 1354                   | 2024/05/21       | 2025/05/20           |
| Audix                          | EMI Test software                 | E3                | 19821b(V9)             | NCR              | NCR                  |
| Rohde & Schwarz                | Spectrum Analyzer                 | FSV40             | 101605                 | 2024/03/27       | 2025/03/26           |
| COM-POWER                      | Pre-amplifier                     | PA-122            | 181919                 | 2024/06/18       | 2025/06/17           |
| Schwarzbeck                    | Horn Antenna                      | BBHA9120D(1201)   | 1143                   | 2023/07/26       | 2026/07/25           |
| Unknown                        | RF Cable                          | KMSE              | 735                    | 2024/06/18       | 2025/06/17           |
| Unknown                        | RF Cable                          | UFA147            | 219661                 | 2024/06/18       | 2025/06/17           |
| JD                             | Multiplex Switch Test Control Set | DT7220FSU         | DQ77926                | 2024/06/18       | 2025/06/17           |
| Rohde & Schwarz                | Spectrum Analyzer                 | FSV40             | 101605                 | 2024/03/27       | 2025/03/26           |
| A.H.System                     | Pre-amplifier                     | PAM-1840VH        | 190                    | 2024/06/18       | 2025/06/17           |
| Electro-Mechanics Co           | Horn Antenna                      | 3116              | 2026                   | 2023/09/18       | 2026/09/17           |
| UTIFLEX                        | RF Cable                          | NO. 13            | 232308-001             | 2024/06/18       | 2025/06/17           |
| Audix                          | EMI Test software                 | E3                | 191218(V9)             | NCR              | NCR                  |

| Manufacturer      | Description                 | Model    | Serial Number | Calibration Date | Calibration Due Date |
|-------------------|-----------------------------|----------|---------------|------------------|----------------------|
| RF Conducted Test |                             |          |               |                  |                      |
| Rohde & Schwarz   | Spectrum Analyzer           | FSV40    | 101942        | 2024/09/20       | 2025/09/19           |
| ANRITSU           | Microwave peak power sensor | MA24418A | 12622         | 2024/05/21       | 2025/05/20           |
| Unknown           | 10dB Attenuator             | Unknown  | F-03-EM190    | 2024/06/27       | 2025/06/26           |
| Unknown           | RF Cable                    | 65475    | 01670515      | 2024/06/27       | 2025/06/26           |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).



**Test Procedure**

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

**Factor & Over Limit Calculation**

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{level} - \text{Limit} \\ \text{Level} &= \text{reading level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

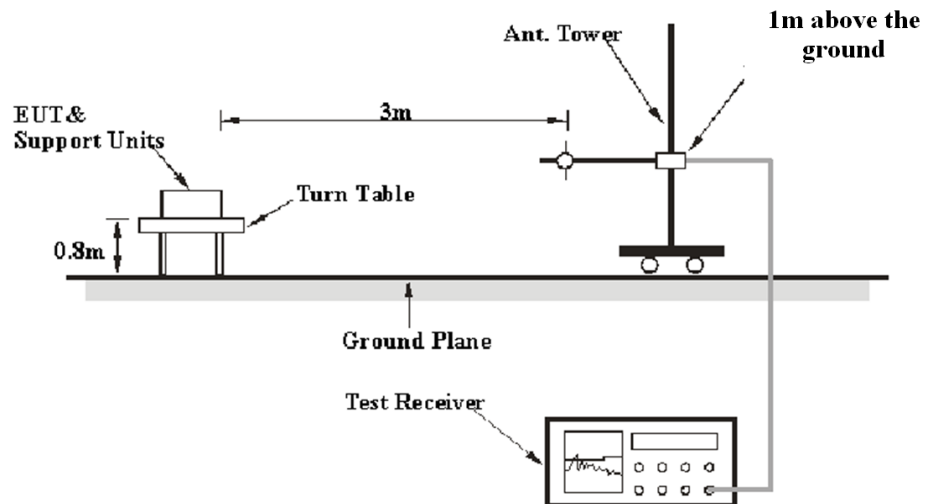
## Spurious Emissions

### Applicable Standard

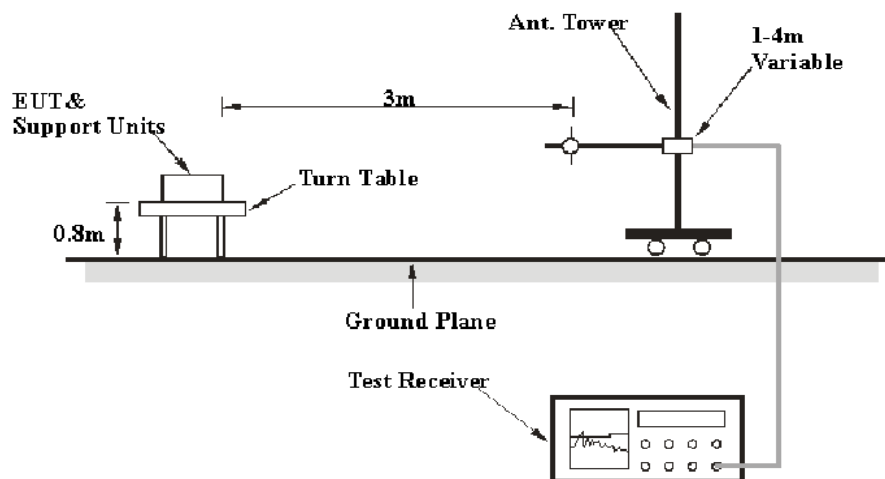
FCC §15.247 (d); §15.209; §15.205;

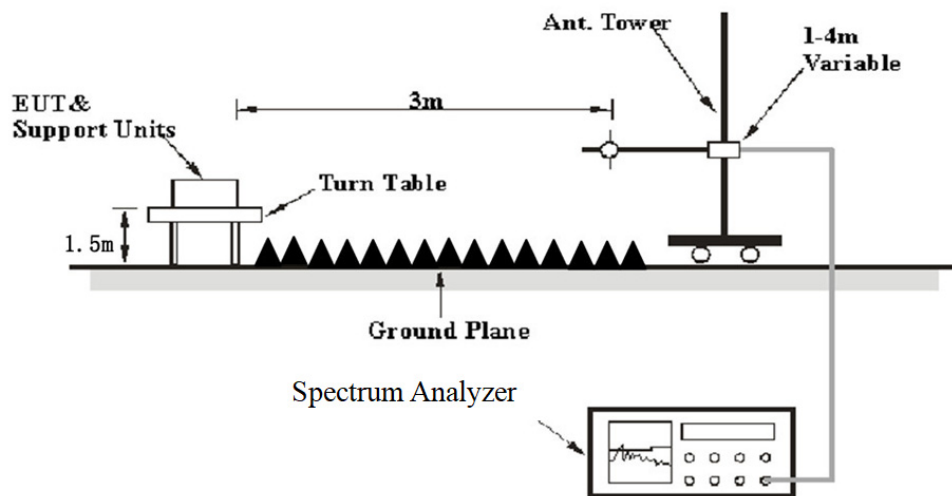
### EUT Setup

#### 9 kHz-30MHz:



#### 30MHz-1GHz:



**Above 1GHz:**

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, FCC 15.247 limits.

**EMI Test Receiver & Spectrum Analyzer Setup**

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz   | /       | /         | 200 Hz  | QP          |
|                   | 300 Hz  | 1 kHz     | /       | PK          |
| 150 kHz – 30 MHz  | /       | /         | 9 kHz   | QP          |
|                   | 10 kHz  | 30 kHz    | /       | PK          |
| 30 MHz – 1000 MHz | /       | /         | 120 kHz | QP          |
|                   | 100 kHz | 300 kHz   | /       | PK          |

1-25GHz:

Pre-scan

| Measurement | Duty cycle | RBW  | Video B/W                       |
|-------------|------------|------|---------------------------------|
| PK          | Any        | 1MHz | 3 MHz                           |
| AV          | >98%       | 1MHz | 5 kHz                           |
|             | <98%       | 1MHz | ≥1/Ton or 5 kHz which is larger |

Final measurement for emission identified during pre-scan

| Measurement | Duty cycle | RBW  | Video B/W |
|-------------|------------|------|-----------|
| PK          | Any        | 1MHz | 3 MHz     |
| AV          | >98%       | 1MHz | 10 Hz     |
|             | <98%       | 1MHz | ≥1/Ton    |

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

### Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

All emissions under the average limit and under the noise floor have not recorded in the report.

### Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level/Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

## 6 dB Emission Bandwidth

### Applicable Standard

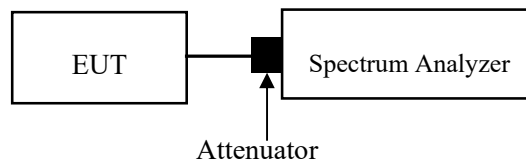
According to FCC §15.247(a) (2)

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

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.8.1

- a) Set RBW = 100 kHz.
- b) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.



## Maximum Conducted Output Power

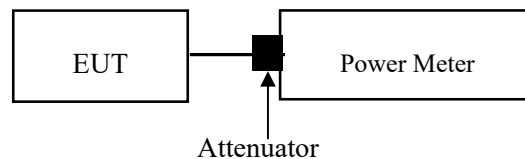
### Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

### Test Procedure

Test method: ANSI C63.10-2013 clause 11.9.1.3 for peak power method or clause 11.9.2.3.2 for average power method.

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

## 100 kHz Bandwidth of Frequency Band Edge

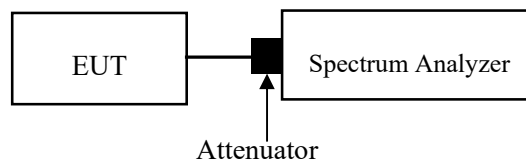
### Applicable Standard

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 §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 Procedure

Test Method: ANSI C63.10-2013 Clause 11.11

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.



## Power Spectral Density

### Applicable Standard

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 11.10.2

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

1. Set the RBW to:  $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
2. Set the VBW  $\geq 3 \times \text{RBW}$ .
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum amplitude level within the RBW.
9. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Method: ANSI C63.10-2013 Clause 11.10.3 Method AVGPSD-1

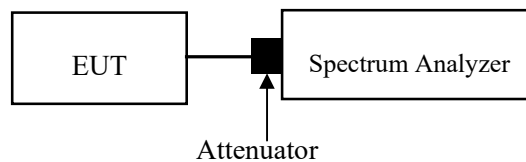
The following procedure may be used when the maximum (average) conducted output power was used to determine compliance to the fundamental output power limit. This is the baseline method for determining the maximum (average) conducted PSD level. If the instrument has a power averaging (rms) detector, then it must be used; otherwise, use the sample detector. The EUT must be configured to transmit continuously ( $D \geq 98\%$ ), or else sweep triggering/signal gating must be implemented to ensure that measurements are made only when the EUT is transmitting at its maximum power control level (no transmitter OFF time to be considered):

1. Set instrument center frequency to DTS channel center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to:  $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{BW}$ .
5. Detector = power averaging (rms) or sample detector (when rms not available)
6. Ensure that the number of measurement points in the sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
7. Sweep time = auto couple.
8. Employ trace averaging (rms) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level.
10. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

## Test Method: ANSI C63.10-2013 Clause 11.10.5 Method AVGPSSD-2

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e.,  $D < 98\%$ ), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2\%$ ):

1. Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. Set the RBW to:  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
5. Set the VBW  $\geq 3 \times \text{BW}$ .
6. Detector = power averaging (rms) or sample detector (when rms not available)
7. Ensure that the number of measurement points in the sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
8. Sweep time = auto couple.
9. Do not use sweep triggering; allow sweep to “free run.”
10. Employ trace averaging (rms) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was added with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

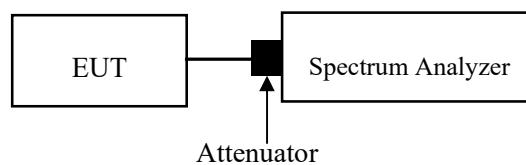
## Duty Cycle

### Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set  $RBW \geq OBW$  if possible; otherwise, set RBW to the largest available value.
- 3) Set  $VBW \geq RBW$ . Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$  and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if  $T \leq 16.7 \mu s$ .)



## **ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to FCC § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **Antenna Connector Construction**

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain<sup>#</sup> is 3.9dBi, fulfill the requirement of this section. Please refer to the EUT photos.

**Result: Compliant**

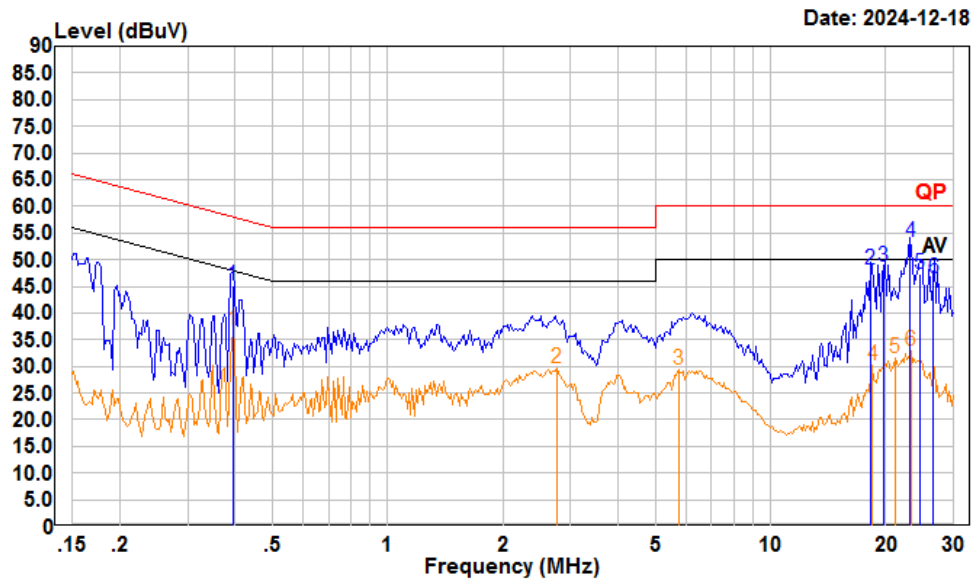
TEST DATA AND RESULTS

AC Line Conducted Emissions

Environmental Conditions

|                       |                                                                 |                          |          |
|-----------------------|-----------------------------------------------------------------|--------------------------|----------|
| Temperature<br>(°C)   | 22.9                                                            | Relative Humidity<br>(%) | 38       |
| ATM Pressure<br>(kPa) | 101.5                                                           | Test engineer            | Macy Shi |
| Test date             | 2024/12/18                                                      |                          |          |
| EUT operation mode    | Transmitting(Maximum output power mode, 802.11g Middle Channel) |                          |          |

## AC 120V/60 Hz, Line



Condition: Line

Project : 2401Y98612E-RF

tester : Macy.shi

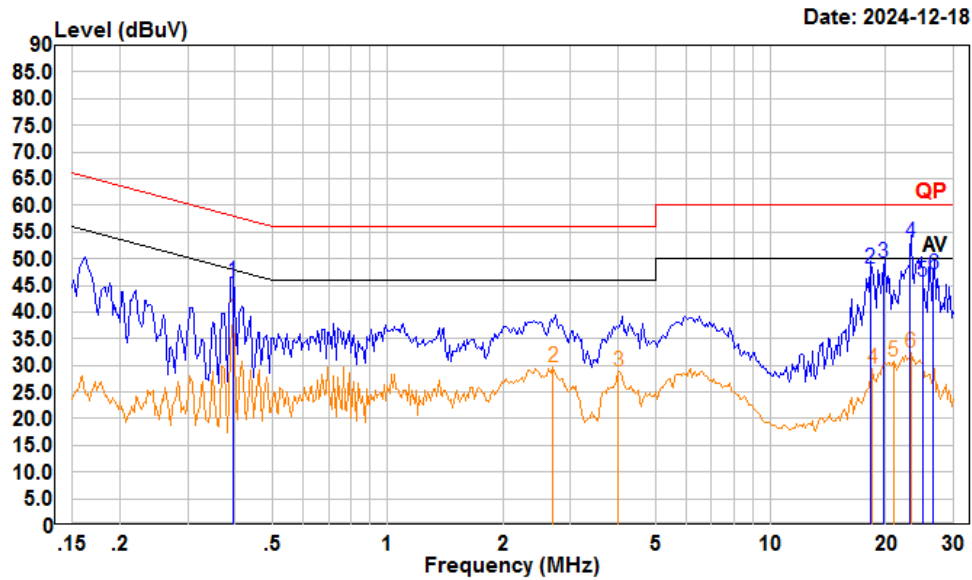
Note : Transmitting

Detector : RBW:9KHz VBW:Auto SWT:Auto

|   | Freq   | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|---|--------|------------|------------|-------------|------------|------------|------------|---------|
|   | MHz    | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1 | 0.393  | 24.80      | 45.15      | 10.25       | 10.10      | 57.99      | -12.84     | QP      |
| 2 | 18.242 | 27.50      | 48.26      | 10.57       | 10.19      | 60.00      | -11.74     | QP      |
| 3 | 19.707 | 27.90      | 48.75      | 10.68       | 10.17      | 60.00      | -11.25     | QP      |
| 4 | 23.129 | 32.41      | 53.25      | 10.66       | 10.18      | 60.00      | -6.75      | QP      |
| 5 | 24.531 | 26.60      | 47.44      | 10.65       | 10.19      | 60.00      | -12.56     | QP      |
| 6 | 26.607 | 25.60      | 46.43      | 10.63       | 10.20      | 60.00      | -13.57     | QP      |
|   | Freq   | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|   | MHz    | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1 | 0.393  | 16.33      | 36.68      | 10.25       | 10.10      | 47.99      | -11.31     | Average |
| 2 | 2.765  | 9.03       | 29.56      | 10.35       | 10.18      | 46.00      | -16.44     | Average |
| 3 | 5.744  | 8.53       | 29.24      | 10.53       | 10.18      | 50.00      | -20.76     | Average |
| 4 | 18.426 | 9.48       | 30.26      | 10.59       | 10.19      | 50.00      | -19.74     | Average |
| 5 | 21.147 | 10.77      | 31.63      | 10.69       | 10.17      | 50.00      | -18.37     | Average |

|   | Freq   | Read<br>Level | Level | LISN<br>Factor | Cable<br>Loss | Limit<br>Line | Over<br>Limit | Remark  |
|---|--------|---------------|-------|----------------|---------------|---------------|---------------|---------|
|   | MHz    | dBuV          | dBuV  | dB             | dB            | dBuV          | dB            |         |
| 6 | 23.263 | 12.04         | 32.88 | 10.66          | 10.18         | 50.00         | -17.12        | Average |

## AC 120V/60 Hz, Neutral



Condition: Neutral  
Project : 2401Y98612E-RF  
tester : Macy.shi  
Note : Transmitting  
Detector : RBW:9KHz VBW:Auto SWT:Auto

|   | Freq   | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|---|--------|------------|------------|-------------|------------|------------|------------|---------|
|   | MHz    | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1 | 0.393  | 24.90      | 45.75      | 10.75       | 10.10      | 57.99      | -12.24     | QP      |
| 2 | 18.242 | 27.60      | 48.05      | 10.26       | 10.19      | 60.00      | -11.95     | QP      |
| 3 | 19.709 | 28.80      | 49.18      | 10.21       | 10.17      | 60.00      | -10.82     | QP      |
| 4 | 23.128 | 32.70      | 53.12      | 10.24       | 10.18      | 60.00      | -6.88      | QP      |
| 5 | 24.897 | 25.30      | 45.74      | 10.25       | 10.19      | 60.00      | -14.26     | QP      |
| 6 | 26.608 | 26.70      | 47.17      | 10.27       | 10.20      | 60.00      | -12.83     | QP      |
|   | Freq   | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|   | MHz    | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1 | 0.393  | 18.08      | 38.93      | 10.75       | 10.10      | 47.99      | -9.06      | Average |
| 2 | 2.707  | 9.23       | 29.63      | 10.23       | 10.17      | 46.00      | -16.37     | Average |
| 3 | 4.006  | 8.13       | 28.74      | 10.40       | 10.21      | 46.00      | -17.26     | Average |
| 4 | 18.426 | 8.89       | 29.34      | 10.26       | 10.19      | 50.00      | -20.66     | Average |
| 5 | 20.924 | 10.36      | 30.74      | 10.21       | 10.17      | 50.00      | -19.26     | Average |

|   | Freq   | Read<br>Level | Level | LISN<br>Factor | Cable<br>Loss | Limit<br>Line | Over<br>Limit | Remark  |
|---|--------|---------------|-------|----------------|---------------|---------------|---------------|---------|
|   | MHz    | dBuV          | dBuV  | dB             | dB            | dBuV          | dB            |         |
| 6 | 23.263 | 12.08         | 32.50 | 10.24          | 10.18         | 50.00         | -17.50        | Average |

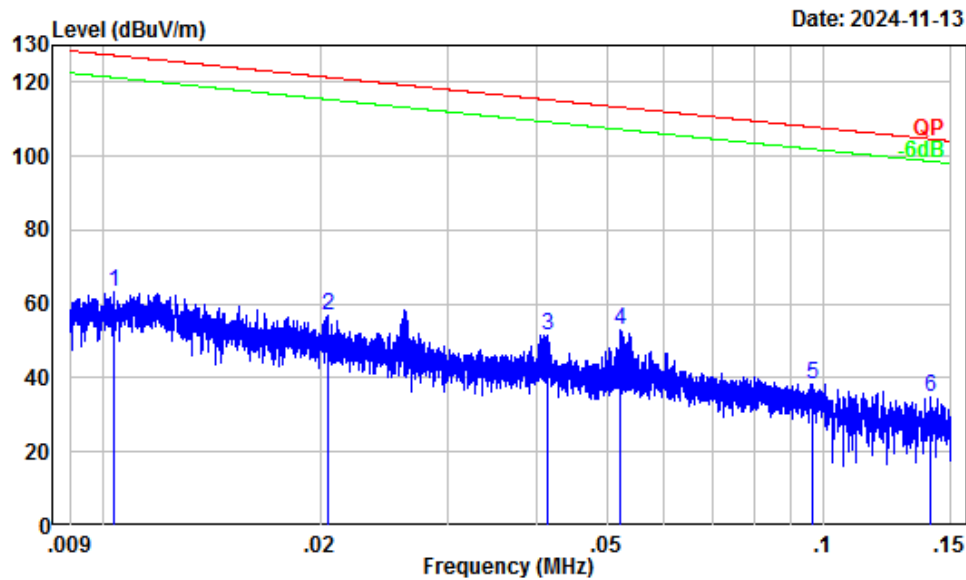
Spurious Emissions

Environmental Conditions

|                     |                                                                                                           |                       |                       |
|---------------------|-----------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| Temperature (°C)    | 22~26                                                                                                     | Relative Humidity (%) | 50~54                 |
| ATM Pressure (kPa): | 101                                                                                                       | Test engineer:        | Anson Su & Dylan Yang |
| Test date:          | 2024.11.07-2024.11.14                                                                                     |                       |                       |
| EUT operation mode: | Below 1GHz: Transmitting (Maximum output power mode, 802.11g Middle Channel)<br>Above 1GHz: Transmitting  |                       |                       |
| Note:               | After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded. |                       |                       |

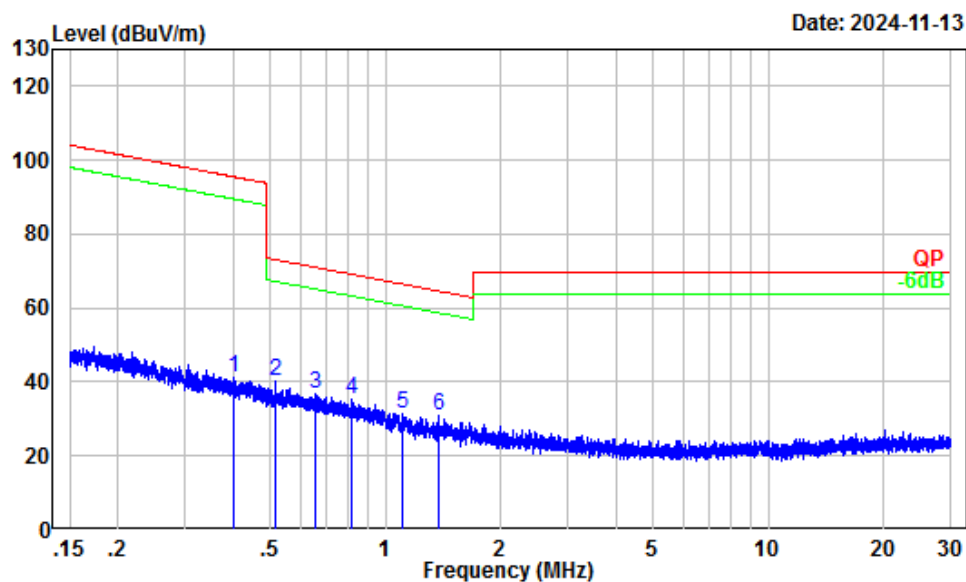
9 kHz-30MHz:

Parallel (worst case)



Site : Chamber A  
Condition : 3m  
Project Number: 2401Y98612E-RF  
Test Mode : 2.4G WIFI Transmitting  
Tester : Anson Su

|   | Freq | Factor | Read Level | Limit Level | Over Limit | Remark      |
|---|------|--------|------------|-------------|------------|-------------|
|   | MHz  | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1 | 0.01 | 37.52  | 25.68      | 63.20       | 127.31     | -64.11 Peak |
| 2 | 0.02 | 32.34  | 24.36      | 56.70       | 121.38     | -64.68 Peak |
| 3 | 0.04 | 24.98  | 26.65      | 51.63       | 115.28     | -63.65 Peak |
| 4 | 0.05 | 22.76  | 30.45      | 53.21       | 113.23     | -60.02 Peak |
| 5 | 0.10 | 17.42  | 20.90      | 38.32       | 107.93     | -69.61 Peak |
| 6 | 0.14 | 15.16  | 19.49      | 34.65       | 104.64     | -69.99 Peak |

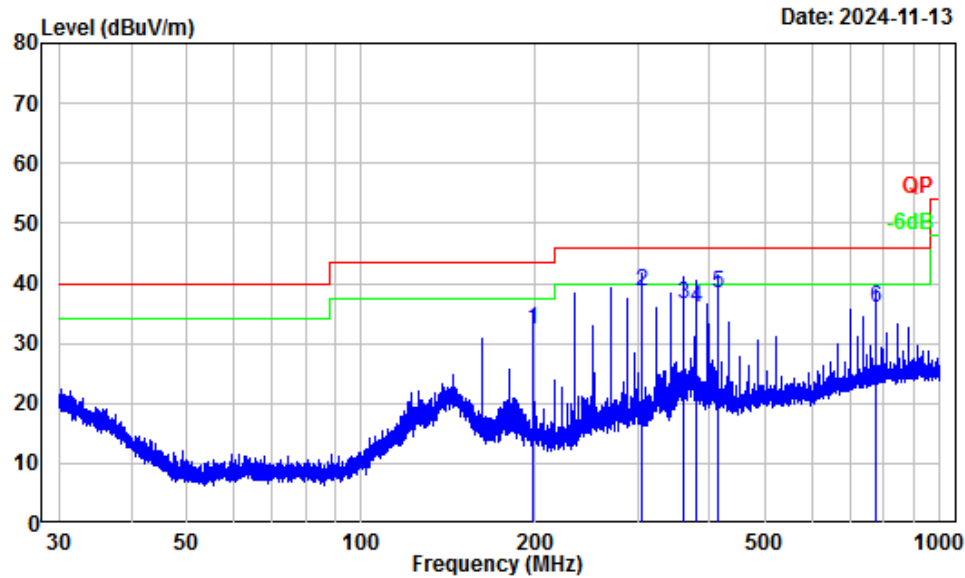


Site : Chamber A  
 Condition : 3m  
 Project Number: 2401Y98612E-RF  
 Test Mode : 2.4G WIFI Transmitting  
 Tester : Anson Su

|   | Freq | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|------|--------|------------|--------|------------|------------|--------|
|   | MHz  | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 0.40 | 5.53   | 35.56      | 41.09  | 95.49      | -54.40     | Peak   |
| 2 | 0.52 | 3.26   | 36.95      | 40.21  | 73.30      | -33.09     | Peak   |
| 3 | 0.65 | 1.63   | 34.94      | 36.57  | 71.23      | -34.66     | Peak   |
| 4 | 0.82 | -0.25  | 35.54      | 35.29  | 69.25      | -33.96     | Peak   |
| 5 | 1.11 | -1.98  | 33.19      | 31.21  | 66.52      | -35.31     | Peak   |
| 6 | 1.38 | -2.92  | 33.93      | 31.01  | 64.60      | -33.59     | Peak   |

30MHz-1GHz:

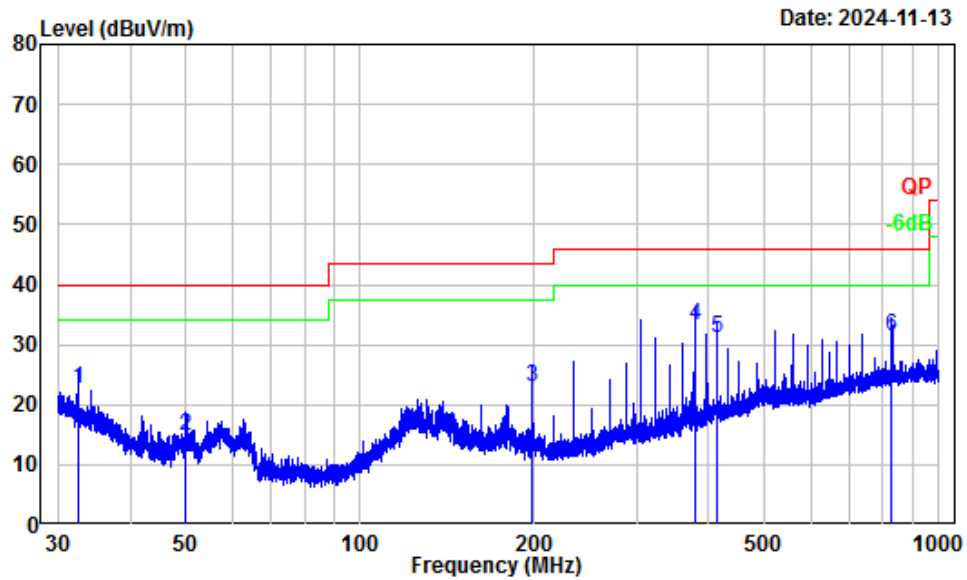
Horizontal



Site : Chamber A  
Condition : 3m Horizontal  
Project Number: 2401Y98612E-RF  
Test Mode : 2.4G WIFI Transmitting  
Tester : Anson Su

| Freq Factor |        | Read Level |        | Limit  | Over  | Remark    |
|-------------|--------|------------|--------|--------|-------|-----------|
| MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m | dB    |           |
| 1           | 197.98 | -13.28     | 45.52  | 32.24  | 43.50 | -11.26 QP |
| 2           | 306.08 | -11.07     | 49.77  | 38.70  | 46.00 | -7.30 QP  |
| 3           | 359.97 | -9.89      | 46.32  | 36.43  | 46.00 | -9.57 QP  |
| 4           | 378.09 | -9.20      | 45.17  | 35.97  | 46.00 | -10.03 QP |
| 5           | 414.00 | -8.04      | 46.46  | 38.42  | 46.00 | -7.58 QP  |
| 6           | 774.16 | -2.48      | 38.30  | 35.82  | 46.00 | -10.18 QP |

## Vertical



Site : Chamber A  
Condition : 3m Vertical  
Project Number: 2401Y98612E-RF  
Test Mode : 2.4G WIFI Transmitting  
Tester : Anson Su

|   | Freq   | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|--------|--------|------------|--------|------------|------------|--------|
|   | MHz    | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 32.45  | -7.29  | 29.99      | 22.70  | 40.00      | -17.30     | QP     |
| 2 | 49.99  | -17.92 | 32.68      | 14.76  | 40.00      | -25.24     | QP     |
| 3 | 197.98 | -13.28 | 36.36      | 23.08  | 43.50      | -20.42     | QP     |
| 4 | 378.09 | -9.20  | 42.32      | 33.12  | 46.00      | -12.88     | QP     |
| 5 | 414.00 | -8.04  | 39.04      | 31.00  | 46.00      | -15.00     | QP     |
| 6 | 826.77 | -1.93  | 33.27      | 31.34  | 46.00      | -14.66     | QP     |

**Above 1GHz:**

| Frequency<br>(MHz) | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|--------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/Ave |                |                  |                                    |                   |                |
| 802.11b            |                   |        |                |                  |                                    |                   |                |
| Low Channel        |                   |        |                |                  |                                    |                   |                |
| 4824               | 51.71             | PK     | H              | 2.45             | 54.16                              | 74                | -19.84         |
| 4824               | 46.46             | AV     | H              | 2.45             | 48.91                              | 54                | -5.09          |
| 4824               | 46.89             | PK     | V              | 2.45             | 49.34                              | 74                | -24.66         |
| 4824               | 38.15             | AV     | V              | 2.45             | 40.6                               | 54                | -13.4          |
| Middle Channel     |                   |        |                |                  |                                    |                   |                |
| 4874               | 51.55             | PK     | H              | 2.56             | 54.11                              | 74                | -19.89         |
| 4874               | 46.47             | AV     | H              | 2.56             | 49.03                              | 54                | -4.97          |
| 4874               | 47.14             | PK     | V              | 2.56             | 49.7                               | 74                | -24.3          |
| 4874               | 38.73             | AV     | V              | 2.56             | 41.29                              | 54                | -12.71         |
| High Channel       |                   |        |                |                  |                                    |                   |                |
| 4924               | 51.56             | PK     | H              | 2.63             | 54.19                              | 74                | -19.81         |
| 4924               | 47.53             | AV     | H              | 2.63             | 50.16                              | 54                | -3.84          |
| 4924               | 47.18             | PK     | V              | 2.63             | 49.81                              | 74                | -24.19         |
| 4924               | 37.95             | AV     | V              | 2.63             | 40.58                              | 54                | -13.42         |
| 802.11g            |                   |        |                |                  |                                    |                   |                |
| Low Channel        |                   |        |                |                  |                                    |                   |                |
| 4824               | 57.42             | PK     | H              | 2.45             | 59.87                              | 74                | -14.13         |
| 4824               | 44.31             | AV     | H              | 2.45             | 46.76                              | 54                | -7.24          |
| 4824               | 50.94             | PK     | V              | 2.45             | 53.39                              | 74                | -20.61         |
| 4824               | 37.85             | AV     | V              | 2.45             | 40.3                               | 54                | -13.7          |
| Middle Channel     |                   |        |                |                  |                                    |                   |                |
| 4874               | 58.38             | PK     | H              | 2.56             | 60.94                              | 74                | -13.06         |
| 4874               | 44.73             | AV     | H              | 2.56             | 47.29                              | 54                | -6.71          |
| 4874               | 51.73             | PK     | V              | 2.56             | 54.29                              | 74                | -19.71         |
| 4874               | 38.4              | AV     | V              | 2.56             | 40.96                              | 54                | -13.04         |
| High Channel       |                   |        |                |                  |                                    |                   |                |
| 4924               | 60.33             | PK     | H              | 2.63             | 62.96                              | 74                | -11.04         |
| 4924               | 46.23             | AV     | H              | 2.63             | 48.86                              | 54                | -5.14          |
| 4924               | 49.41             | PK     | V              | 2.63             | 52.04                              | 74                | -21.96         |
| 4924               | 35.78             | AV     | V              | 2.63             | 38.41                              | 54                | -15.59         |

| Frequency<br>(MHz) | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|--------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/Ave |                |                  |                                    |                   |                |
| 802.11n20          |                   |        |                |                  |                                    |                   |                |
| Low Channel        |                   |        |                |                  |                                    |                   |                |
| 4824               | 57.56             | PK     | H              | 2.45             | 60.01                              | 74                | -13.99         |
| 4824               | 44.28             | AV     | H              | 2.45             | 46.73                              | 54                | -7.27          |
| 4824               | 47.9              | PK     | V              | 2.45             | 50.35                              | 74                | -23.65         |
| 4824               | 36.32             | AV     | V              | 2.45             | 38.77                              | 54                | -15.23         |
| Middle Channel     |                   |        |                |                  |                                    |                   |                |
| 4874               | 56.56             | PK     | H              | 2.56             | 59.12                              | 74                | -14.88         |
| 4874               | 42.71             | AV     | H              | 2.56             | 45.27                              | 54                | -8.73          |
| 4874               | 48.23             | PK     | V              | 2.56             | 50.79                              | 74                | -23.21         |
| 4874               | 35.76             | AV     | V              | 2.56             | 38.32                              | 54                | -15.68         |
| High Channel       |                   |        |                |                  |                                    |                   |                |
| 4924               | 56.49             | PK     | H              | 2.63             | 59.12                              | 74                | -14.88         |
| 4924               | 42.64             | AV     | H              | 2.63             | 45.27                              | 54                | -8.73          |
| 4924               | 47.98             | PK     | V              | 2.63             | 50.61                              | 74                | -23.39         |
| 4924               | 35.61             | AV     | V              | 2.63             | 38.24                              | 54                | -15.76         |
| 802.11n40          |                   |        |                |                  |                                    |                   |                |
| Low Channel        |                   |        |                |                  |                                    |                   |                |
| 4844               | 50.28             | PK     | H              | 2.47             | 52.75                              | 74                | -21.25         |
| 4844               | 37.92             | AV     | H              | 2.47             | 40.39                              | 54                | -13.61         |
| 4844               | 46.65             | PK     | V              | 2.47             | 49.12                              | 74                | -24.88         |
| 4844               | 33.62             | AV     | V              | 2.47             | 36.09                              | 54                | -17.91         |
| Middle Channel     |                   |        |                |                  |                                    |                   |                |
| 4874               | 50.32             | PK     | H              | 2.56             | 52.88                              | 74                | -21.12         |
| 4874               | 38.57             | AV     | H              | 2.56             | 41.13                              | 54                | -12.87         |
| 4874               | 46.96             | PK     | V              | 2.56             | 49.52                              | 74                | -24.48         |
| 4874               | 34.12             | AV     | V              | 2.56             | 36.68                              | 54                | -17.32         |
| High Channel       |                   |        |                |                  |                                    |                   |                |
| 4904               | 52.31             | PK     | H              | 2.64             | 54.95                              | 74                | -19.05         |
| 4904               | 39.42             | AV     | H              | 2.64             | 42.06                              | 54                | -11.94         |
| 4904               | 47.16             | PK     | V              | 2.64             | 49.8                               | 74                | -24.2          |
| 4904               | 35.48             | AV     | V              | 2.64             | 38.12                              | 54                | -15.88         |

| Frequency<br>(MHz) | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|--------|----------------|------------------|------------------------------------|-------------------|----------------|
|                    | Reading<br>(dBμV) | PK/Ave |                |                  |                                    |                   |                |
| 802.11ax20         |                   |        |                |                  |                                    |                   |                |
| Low Channel        |                   |        |                |                  |                                    |                   |                |
| 4824               | 56.97             | PK     | H              | 2.45             | 59.42                              | 74                | -14.58         |
| 4824               | 43.72             | AV     | H              | 2.45             | 46.17                              | 54                | -7.83          |
| 4824               | 49.65             | PK     | V              | 2.45             | 52.1                               | 74                | -21.9          |
| 4824               | 35.72             | AV     | V              | 2.45             | 38.17                              | 54                | -15.83         |
| Middle Channel     |                   |        |                |                  |                                    |                   |                |
| 4874               | 56.52             | PK     | H              | 2.56             | 59.08                              | 74                | -14.92         |
| 4874               | 43.14             | AV     | H              | 2.56             | 45.7                               | 54                | -8.3           |
| 4874               | 49.01             | PK     | V              | 2.56             | 51.57                              | 74                | -22.43         |
| 4874               | 35.52             | AV     | V              | 2.56             | 38.08                              | 54                | -15.92         |
| High Channel       |                   |        |                |                  |                                    |                   |                |
| 4924               | 56.34             | PK     | H              | 2.63             | 58.97                              | 74                | -15.03         |
| 4924               | 41.97             | AV     | H              | 2.63             | 44.6                               | 54                | -9.4           |
| 4924               | 48.03             | PK     | V              | 2.63             | 50.66                              | 74                | -23.34         |
| 4924               | 35.44             | AV     | V              | 2.63             | 38.07                              | 54                | -15.93         |
| 802.11ax40         |                   |        |                |                  |                                    |                   |                |
| Low Channel        |                   |        |                |                  |                                    |                   |                |
| 4844               | 52.66             | PK     | H              | 2.47             | 55.13                              | 74                | -18.87         |
| 4844               | 39.11             | AV     | H              | 2.47             | 41.58                              | 54                | -12.42         |
| 4844               | 46.52             | PK     | V              | 2.47             | 48.99                              | 74                | -25.01         |
| 4844               | 34.23             | AV     | V              | 2.47             | 36.7                               | 54                | -17.3          |
| Middle Channel     |                   |        |                |                  |                                    |                   |                |
| 4874               | 53.18             | PK     | H              | 2.56             | 55.74                              | 74                | -18.26         |
| 4874               | 39.91             | AV     | H              | 2.56             | 42.47                              | 54                | -11.53         |
| 4874               | 46.62             | PK     | V              | 2.56             | 49.18                              | 74                | -24.82         |
| 4874               | 34.61             | AV     | V              | 2.56             | 37.17                              | 54                | -16.83         |
| High Channel       |                   |        |                |                  |                                    |                   |                |
| 4904               | 53.46             | PK     | H              | 2.64             | 56.1                               | 74                | -17.9          |
| 4904               | 39.97             | AV     | H              | 2.64             | 42.61                              | 54                | -11.39         |
| 4904               | 47.62             | PK     | V              | 2.64             | 50.26                              | 74                | -23.74         |
| 4904               | 34.27             | AV     | V              | 2.64             | 36.91                              | 54                | -17.09         |

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

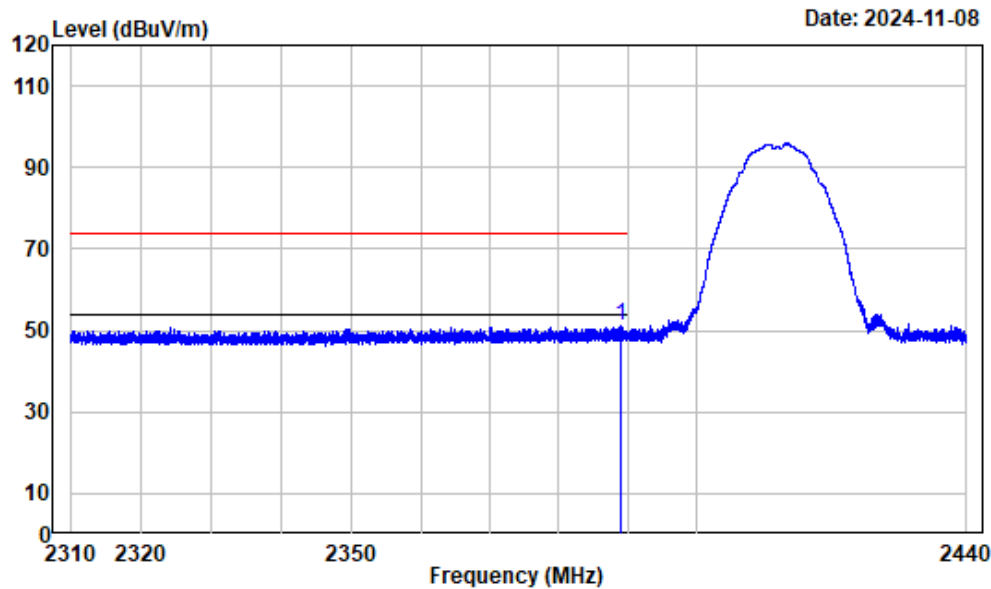
Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

Test plots

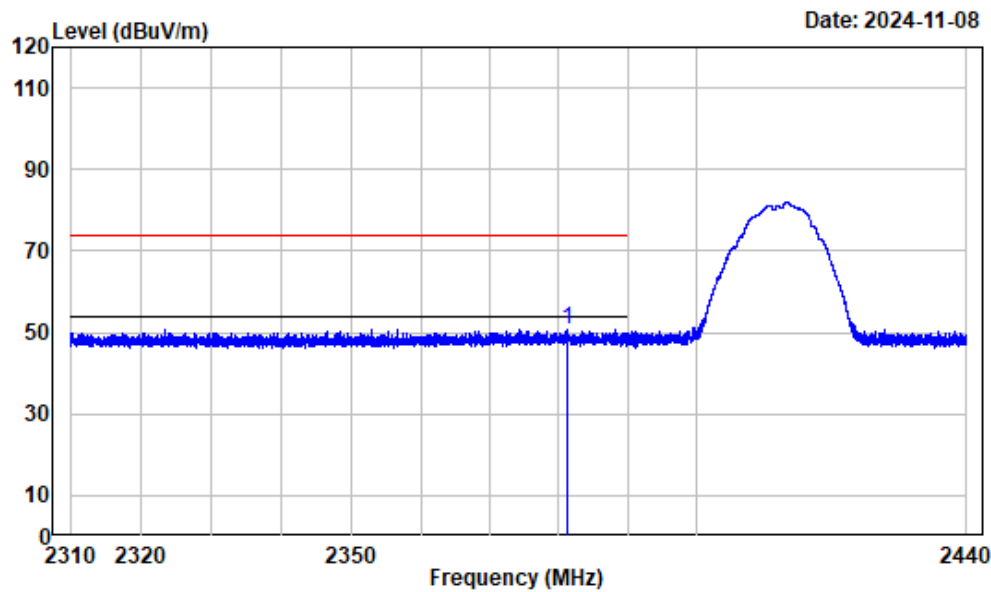
Left Band edge\_Horizontal-2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|--------|------------|--------|------------|------------|--------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 2388.936 | -3.20  | 54.56      | 51.36  | 74.00      | -22.64     | peak   |

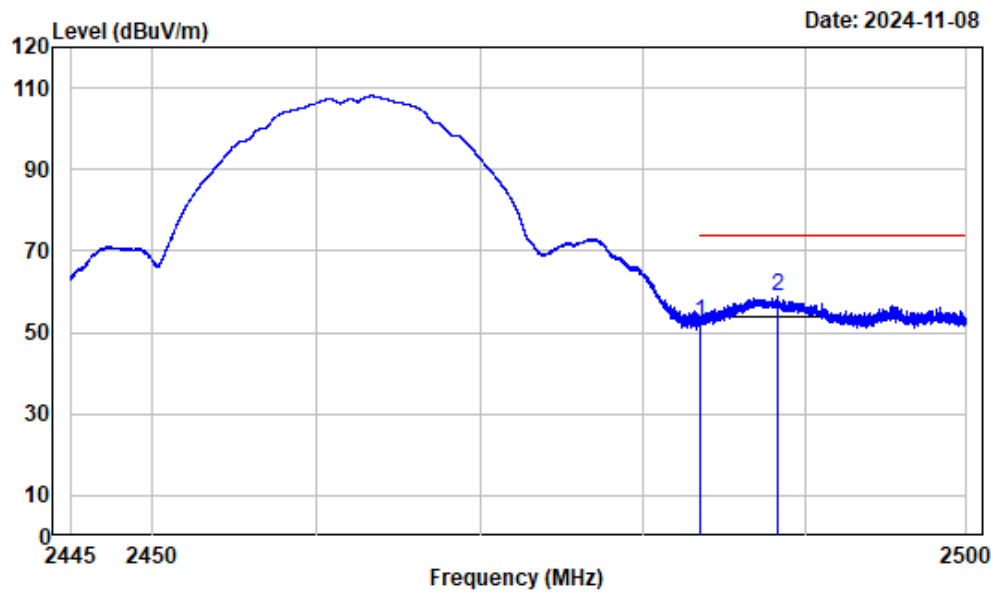
Left Band edge\_Vertical -2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|--------|------------|--------|------------|------------|--------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 2381.249 | -3.19  | 53.94      | 50.75  | 74.00      | -23.25     | peak   |

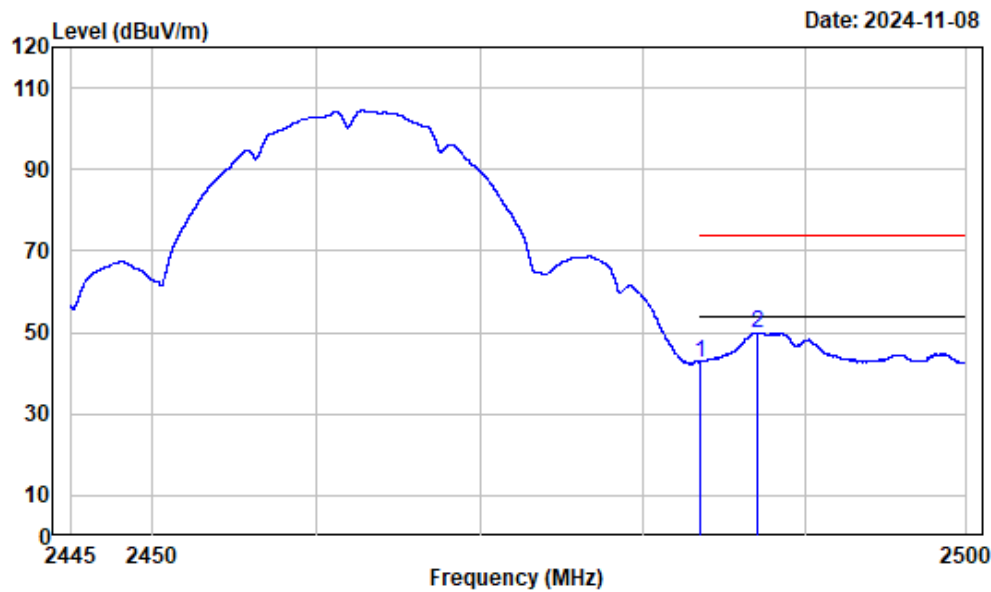
Right Band edge\_Horizontal\_Peak-2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 55.70      | 52.53  | 74.00      | -21.47     | Peak   |
| 2 | 2488.366 | -3.18  | 61.97      | 58.79  | 74.00      | -15.21     | peak   |

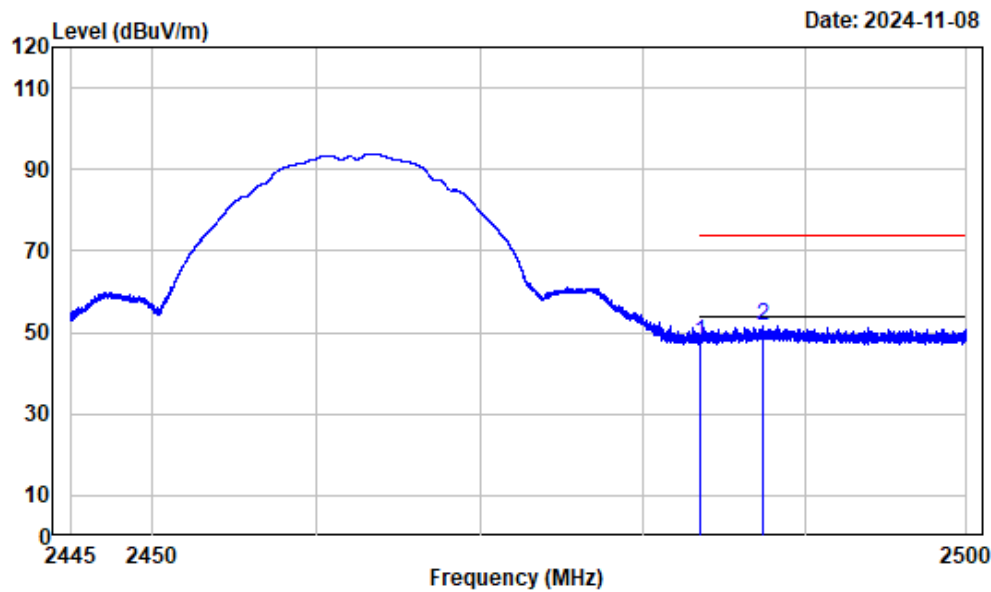
Right Band edge\_Horizontal\_Average-2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
|      | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 45.85      | 42.68  | 54.00      | -11.32     | Average |
| 2    | 2487.066 | -3.17  | 53.19      | 50.02  | 54.00      | -3.98      | Average |

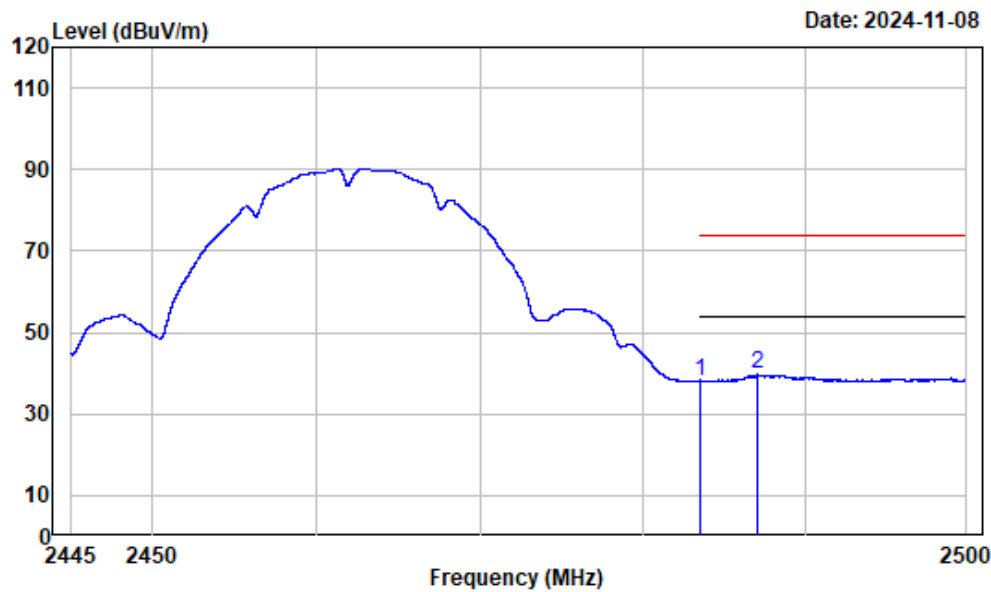
Right Band edge\_Vertical\_Peak-2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 50.69      | 47.52  | 74.00      | -26.48     | Peak   |
| 2 | 2487.376 | -3.17  | 54.82      | 51.65  | 74.00      | -22.35     | peak   |

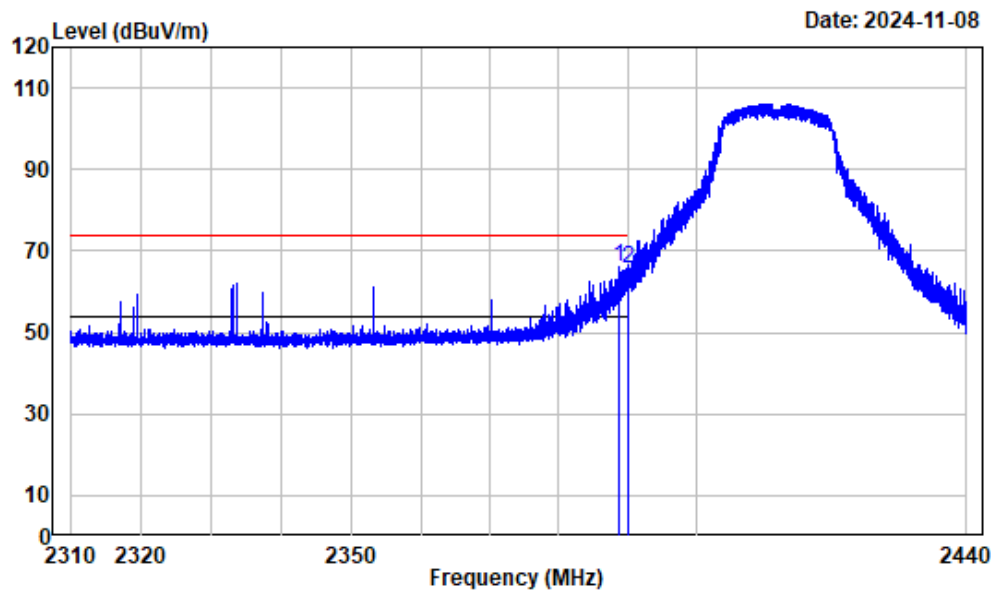
Right Band edge\_Vertical\_Average-2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 41.28      | 38.11  | 54.00      | -15.89     | Average |
| 2    | 2487.087 | -3.17  | 42.84      | 39.67  | 54.00      | -14.33     | Average |

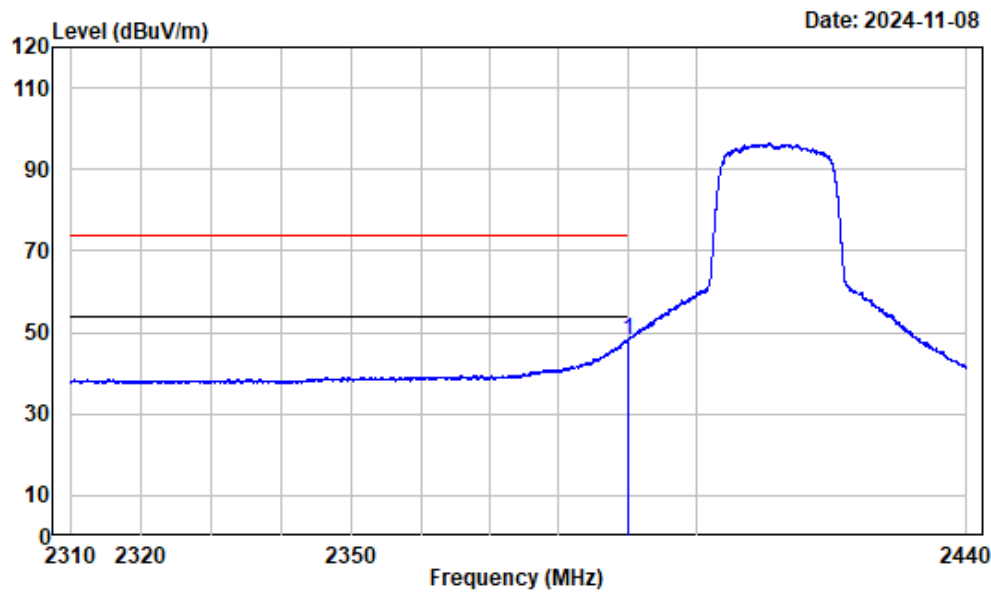
Left Band edge\_Horizontal\_Peak\_2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2412

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2388.855 | -3.20  | 69.44      | 66.24  | 74.00      | -7.76      | peak   |
| 2 | 2390.000 | -3.20  | 68.91      | 65.71  | 74.00      | -8.29      | Peak   |

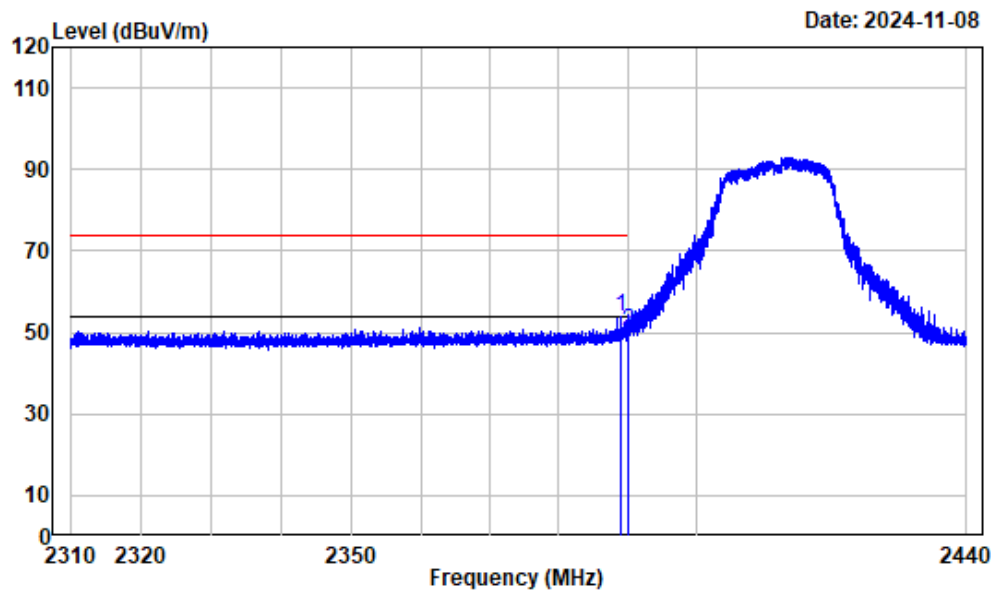
Left Band edge\_Horizontal\_Average\_2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | -3.20  | 51.13      | 47.93  | 54.00      | -6.07      | Average |

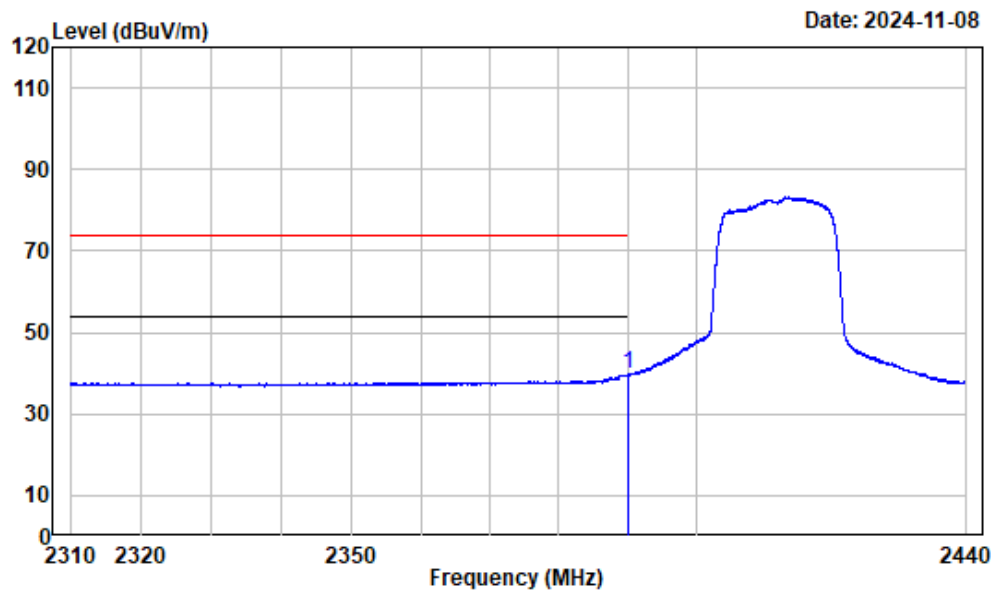
Left Band edge\_Vertical\_Peak\_2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2412

|      |          | Read   |       | Limit  | Over   | Remark      |
|------|----------|--------|-------|--------|--------|-------------|
| Freq |          | Factor | Level | Level  | Line   |             |
|      | MHz      | dB/m   | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 2389.017 | -3.20  | 57.12 | 53.92  | 74.00  | -20.08 peak |
| 2    | 2390.000 | -3.20  | 53.45 | 50.25  | 74.00  | -23.75 Peak |

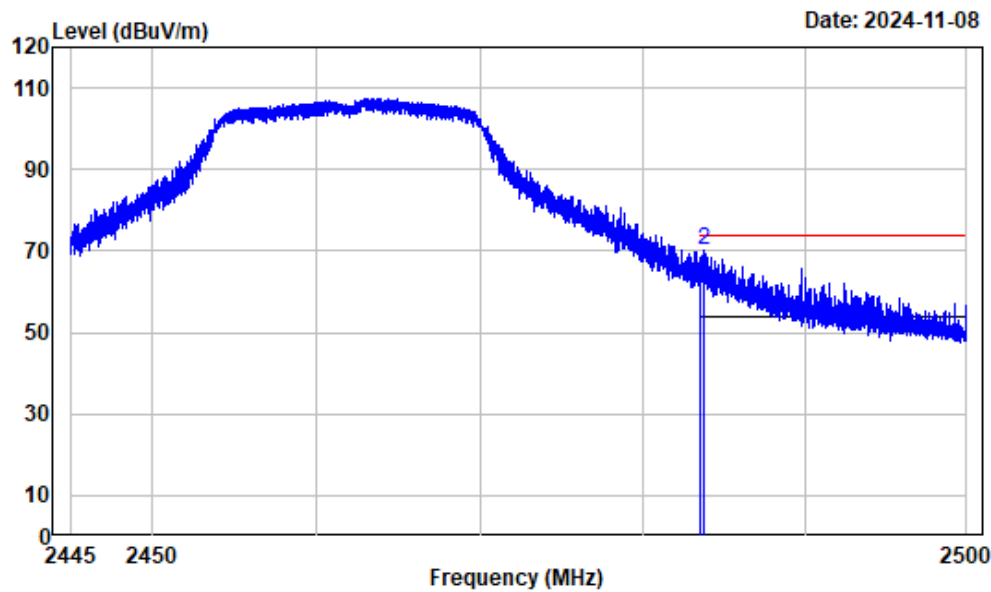
Left Band edge\_Vertical\_Average\_2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | -3.20  | 42.84      | 39.64  | 54.00      | -14.36     | Average |

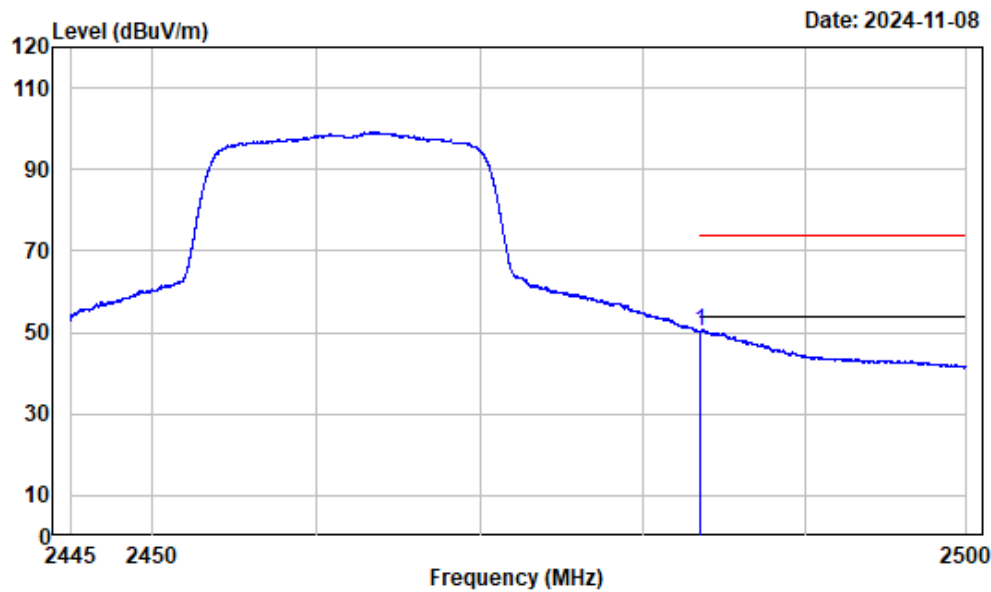
Right Band edge\_Horizontal\_Peak\_2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 65.59      | 62.42  | 74.00      | -11.58     | Peak   |
| 2 | 2483.787 | -3.17  | 73.41      | 70.24  | 74.00      | -3.76      | peak   |

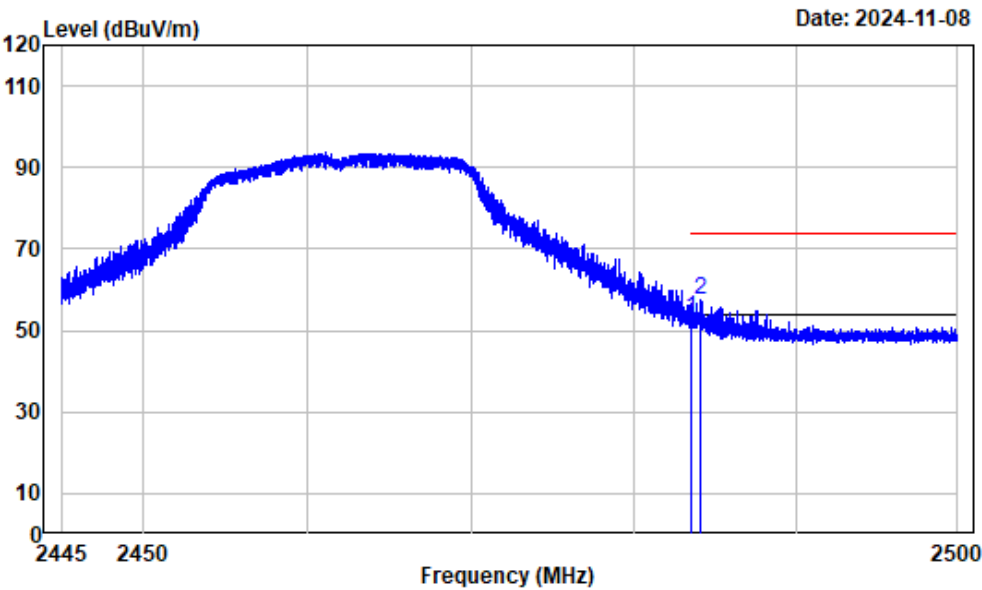
Right Band edge\_Horizontal\_Average\_2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 53.52      | 50.35  | 54.00      | -3.65      | Average |

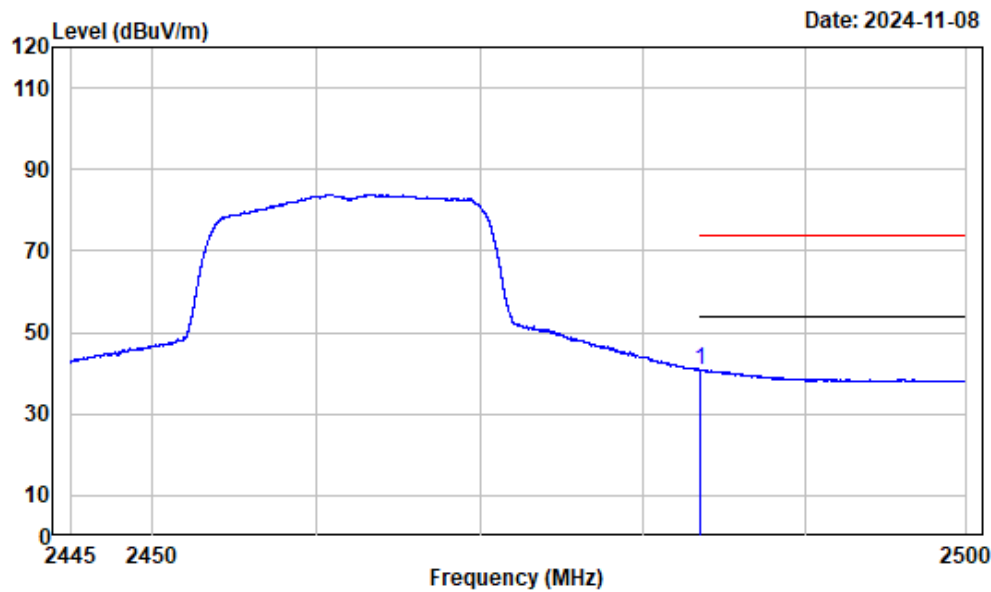
Right Band edge\_Vertical\_Peak\_2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 56.35      | 53.18  | 74.00      | -20.82     | Peak   |
| 2 | 2484.096 | -3.17  | 60.77      | 57.60  | 74.00      | -16.40     | peak   |

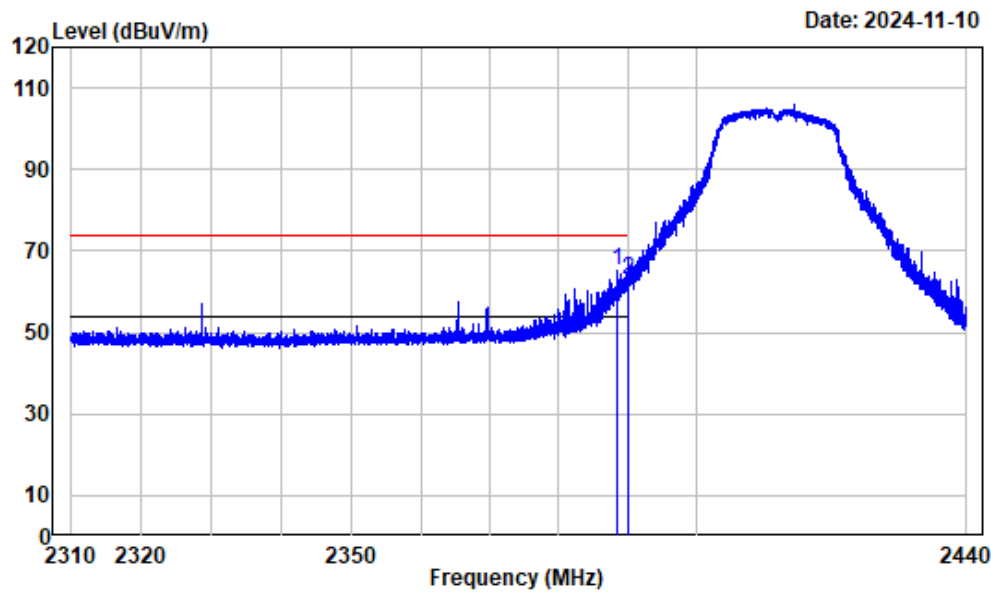
Right Band edge\_Vertical\_Average\_2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 43.92      | 40.75  | 54.00      | -13.25     | Average |

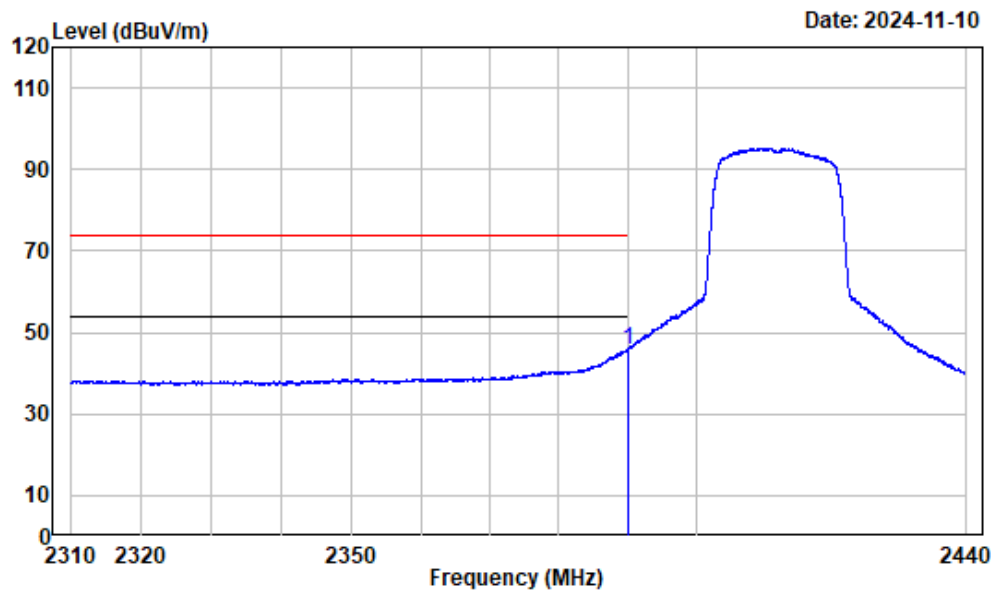
Left Band edge\_Horizontal\_Peak-2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|--------|------------|--------|------------|------------|--------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 2388.562 | -3.20  | 68.20      | 65.00  | 74.00      | -9.00      | peak   |
| 2    | 2390.000 | -3.20  | 65.99      | 62.79  | 74.00      | -11.21     | Peak   |

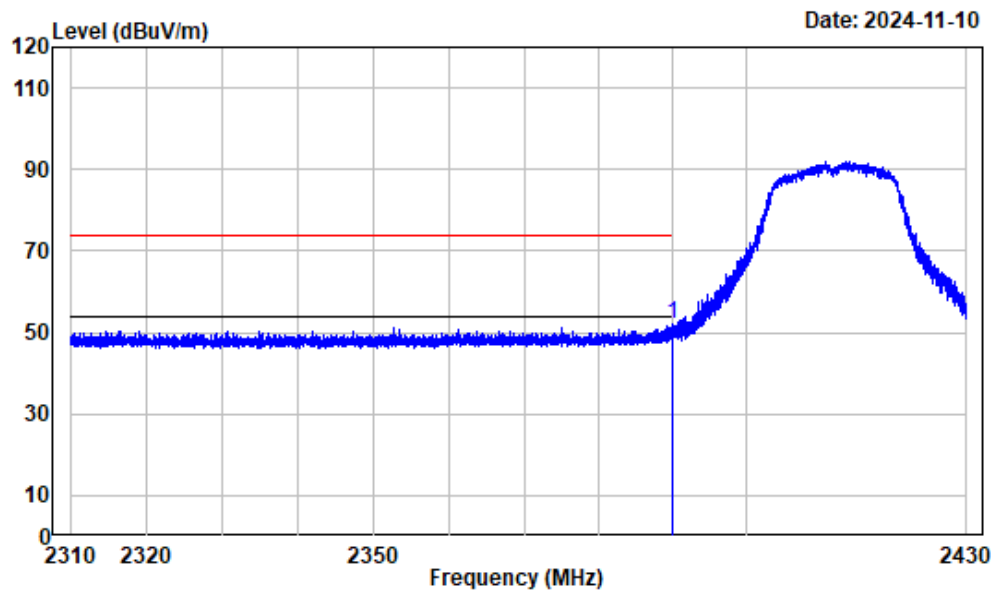
Left Band edge\_Horizontal\_Average-2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | -3.20  | 49.14      | 45.94  | 54.00      | -8.06      | Average |

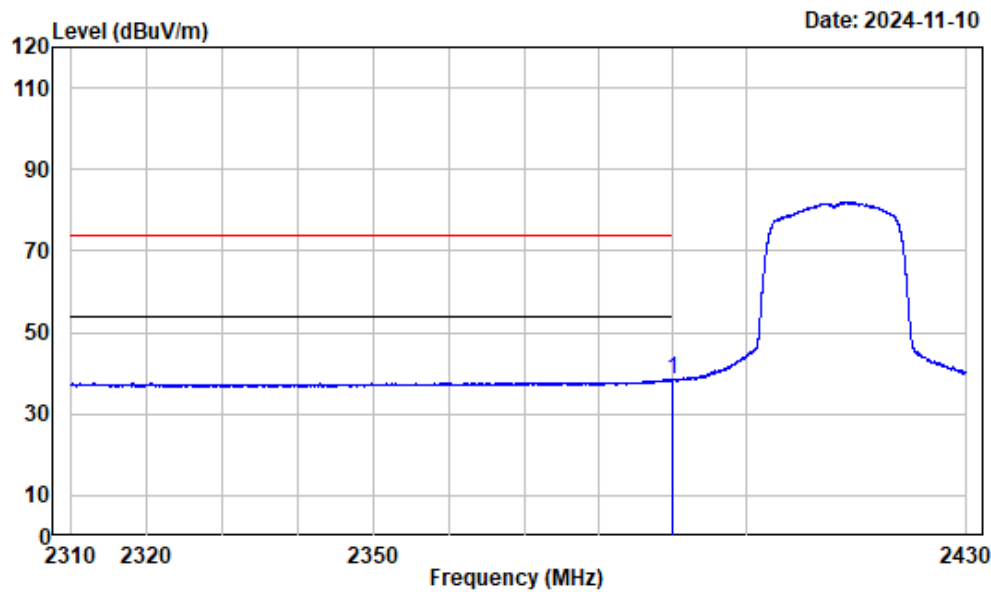
Left Band edge\_Vertical\_Peak-2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|----------|--------|------------|--------|------------|------------|--------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 2390.000 | -3.20  | 55.33      | 52.13  | 74.00      | -21.87     | peak   |

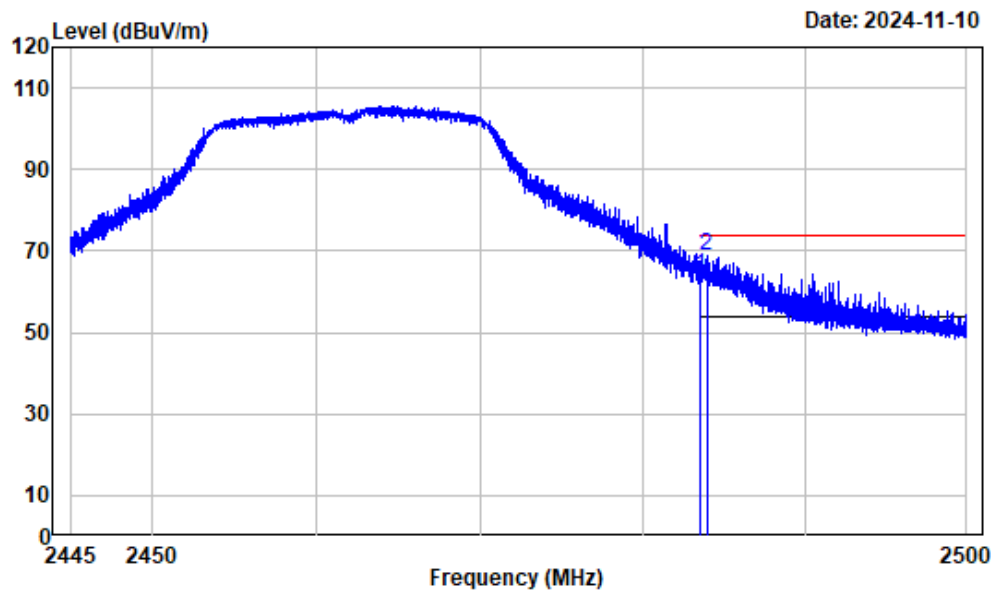
Left Band edge\_Vertical\_Average-2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | -3.20  | 41.74      | 38.54  | 54.00      | -15.46     | Average |

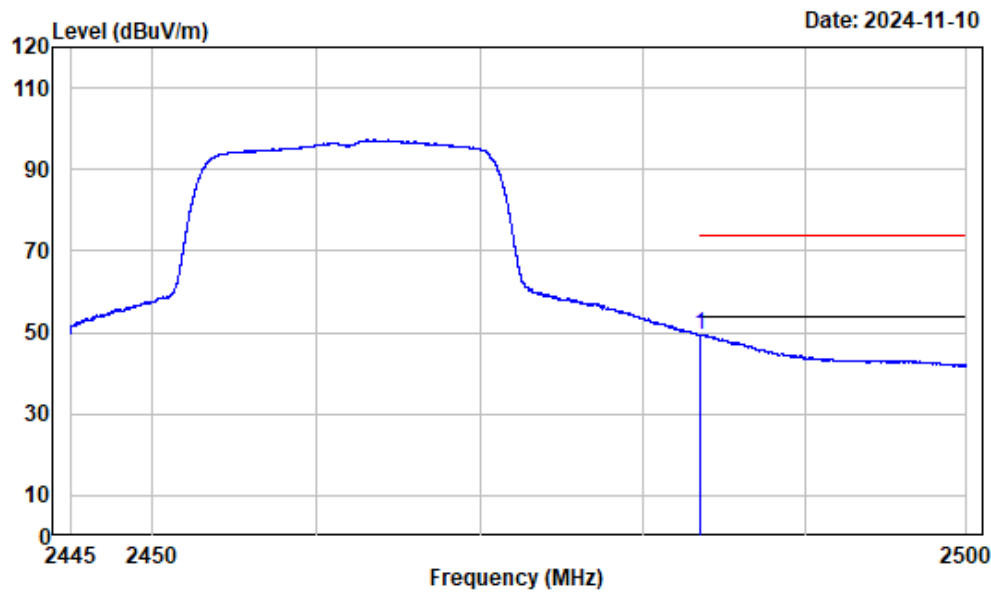
Right Band edge\_Horizontal\_Peak-2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 66.84      | 63.67  | 74.00      | -10.33     | Peak   |
| 2 | 2483.931 | -3.17  | 71.99      | 68.82  | 74.00      | -5.18      | peak   |

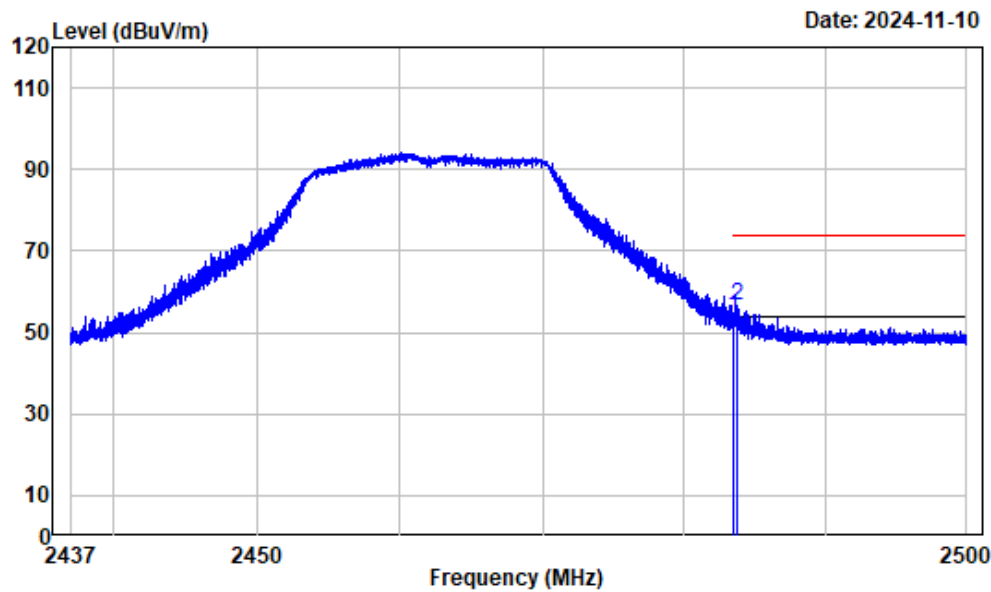
Right Band edge\_Horizontal\_Average-2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2462

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 52.55      | 49.38  | 54.00      | -4.62      | Average |

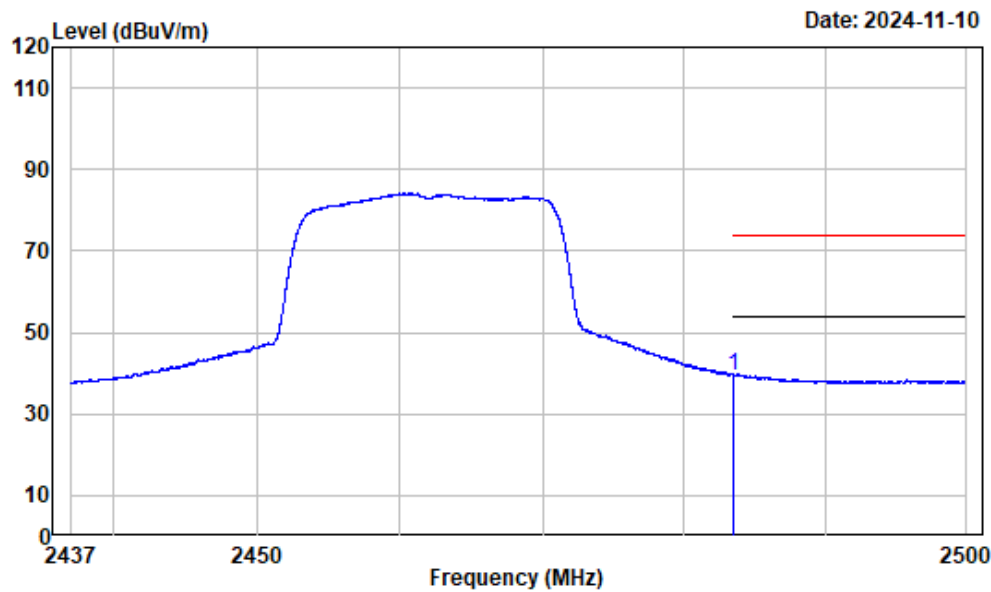
Right Band edge\_Vertical\_Peak-2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 57.03      | 53.86  | 74.00      | -20.14     | Peak   |
| 2 | 2483.728 | -3.17  | 59.71      | 56.54  | 74.00      | -17.46     | peak   |

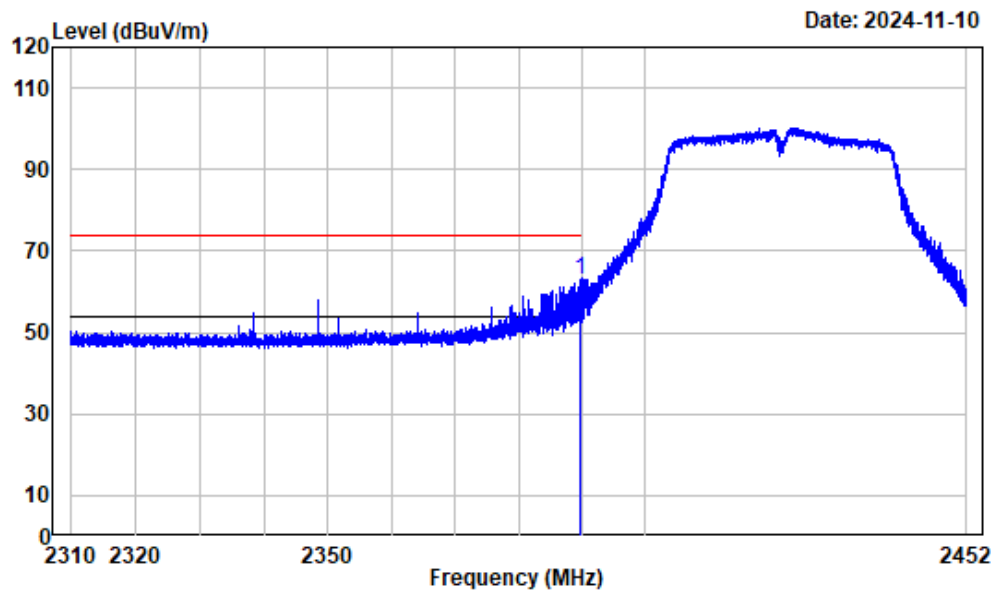
Right Band edge\_Vertical \_Average-2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2462

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 42.69      | 39.52  | 54.00      | -14.48     | Average |

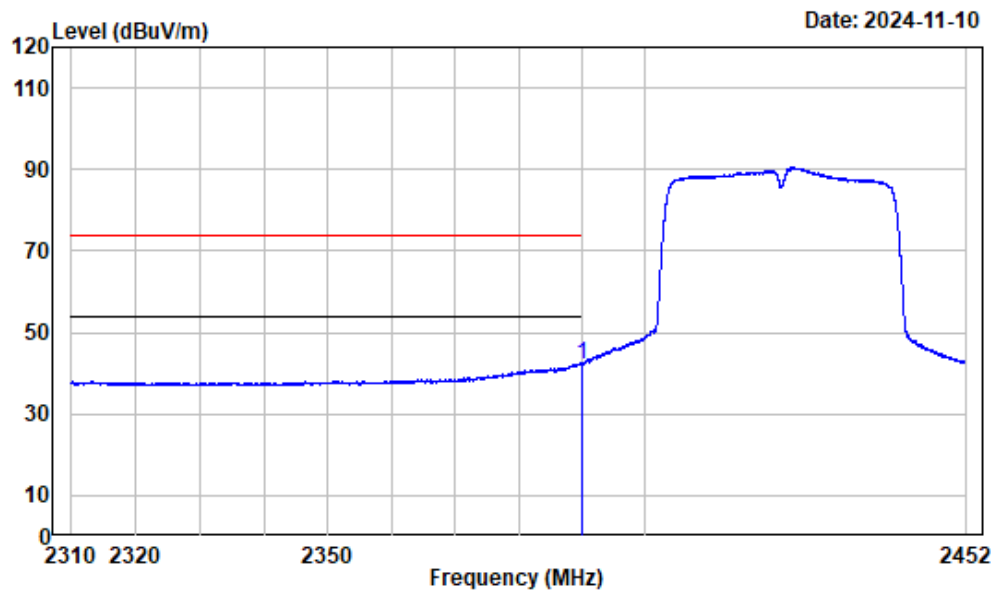
Left Band edge\_Horizontal\_Peak-2422



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2422

|            |        | Read  |        | Limit  | Over   | Remark |
|------------|--------|-------|--------|--------|--------|--------|
| Freq       | Factor | Level | Level  | Line   | Limit  |        |
| MHz        | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 2389.743 | -3.20  | 66.05 | 62.85  | 74.00  | -11.15 | peak   |

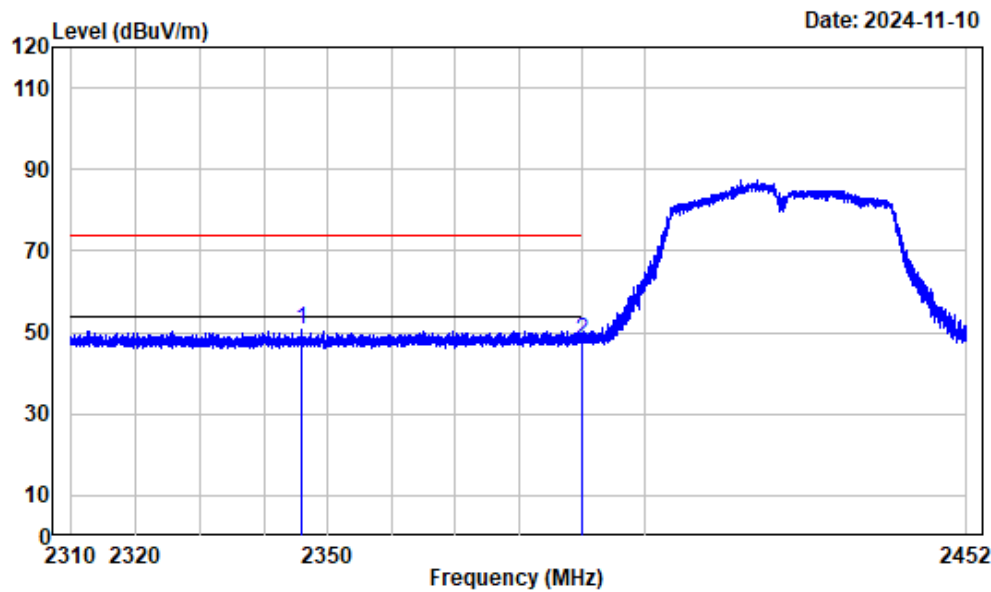
Left Band edge\_Horizontal\_Average-2422



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2422

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | -3.20  | 45.33      | 42.13  | 54.00      | -11.87     | Average |

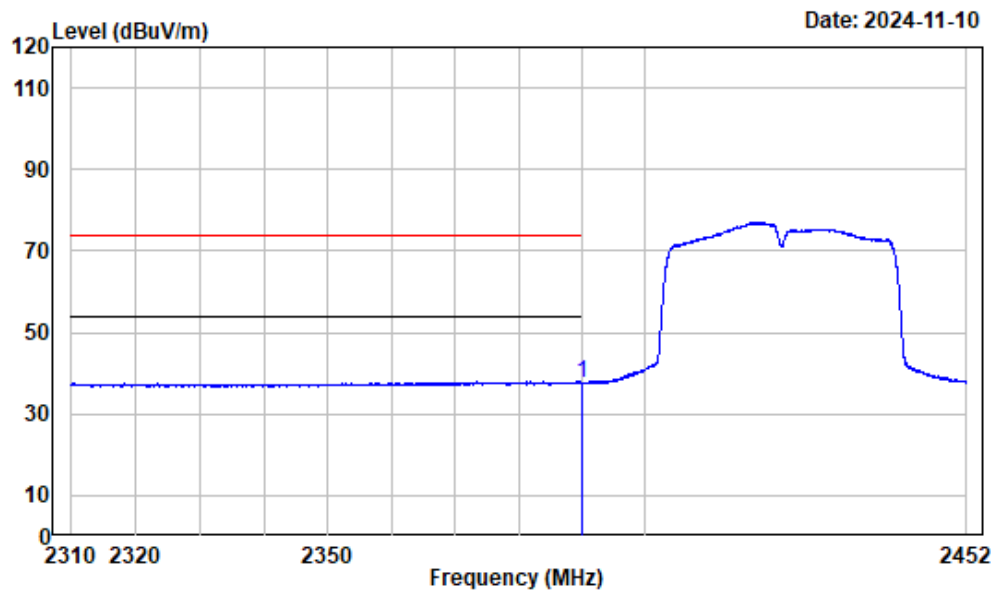
Left Band edge\_Vertical\_Peak-2422



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2422

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2345.895 | -3.14  | 53.73      | 50.59  | 74.00      | -23.41     | peak   |
| 2 | 2390.000 | -3.20  | 51.37      | 48.17  | 74.00      | -25.83     | Peak   |

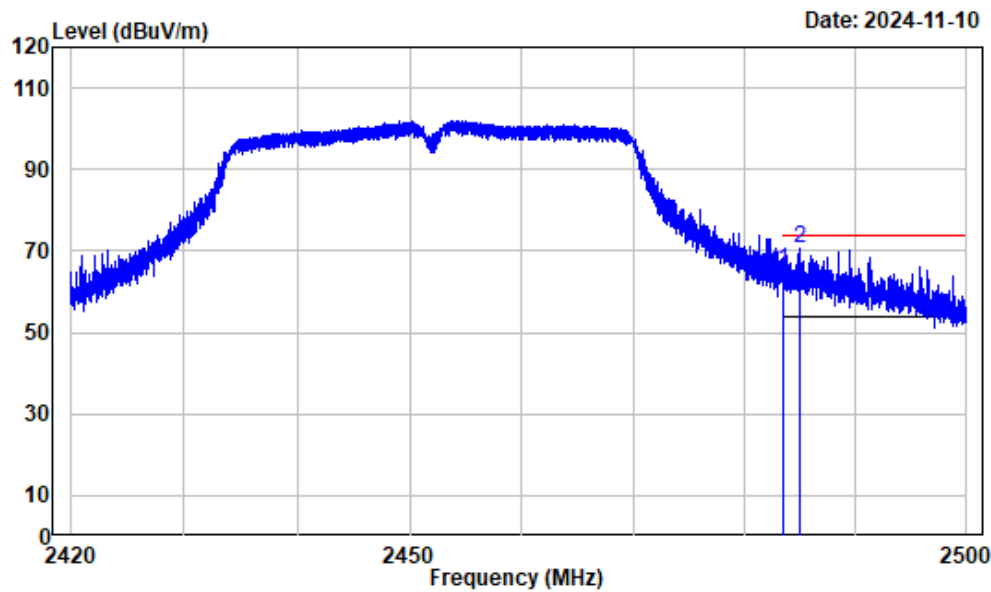
Left Band edge\_Vertical\_Average -2422



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2422

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2390.000 | -3.20  | 40.72      | 37.52  | 54.00      | -16.48     | Average |

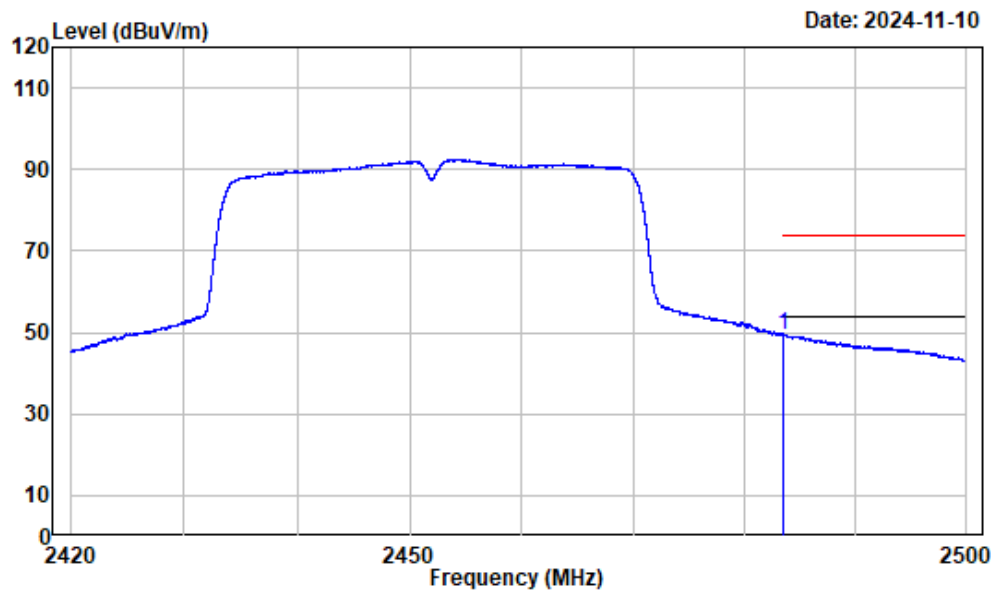
Right Band edge\_Horizontal\_Peak-2452



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 68.30      | 65.13  | 74.00      | -8.87      | Peak   |
| 2 | 2484.918 | -3.17  | 73.97      | 70.80  | 74.00      | -3.20      | peak   |

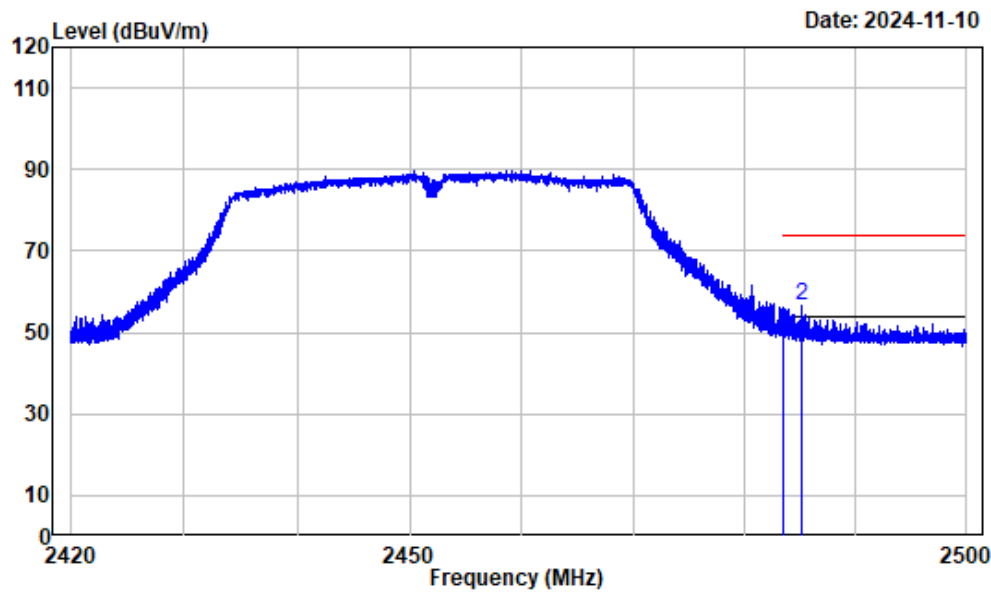
Right Band edge\_Horizontal\_Average-2452



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 52.58      | 49.41  | 54.00      | -4.59      | Average |

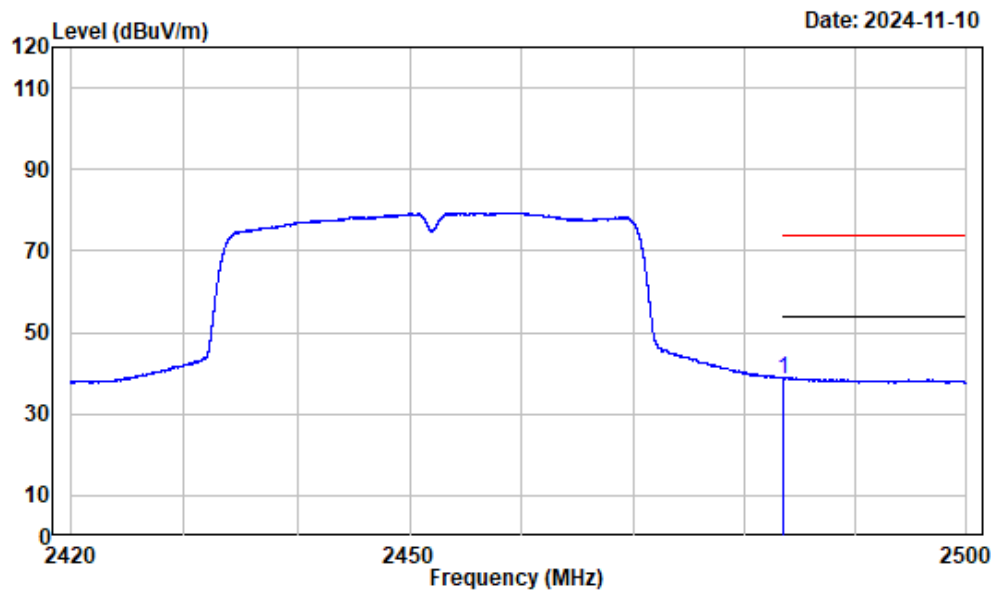
Right Band edge\_Vertical\_Peak-2452



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 53.60      | 50.43  | 74.00      | -23.57     | Peak   |
| 2 | 2485.028 | -3.17  | 59.70      | 56.53  | 74.00      | -17.47     | peak   |

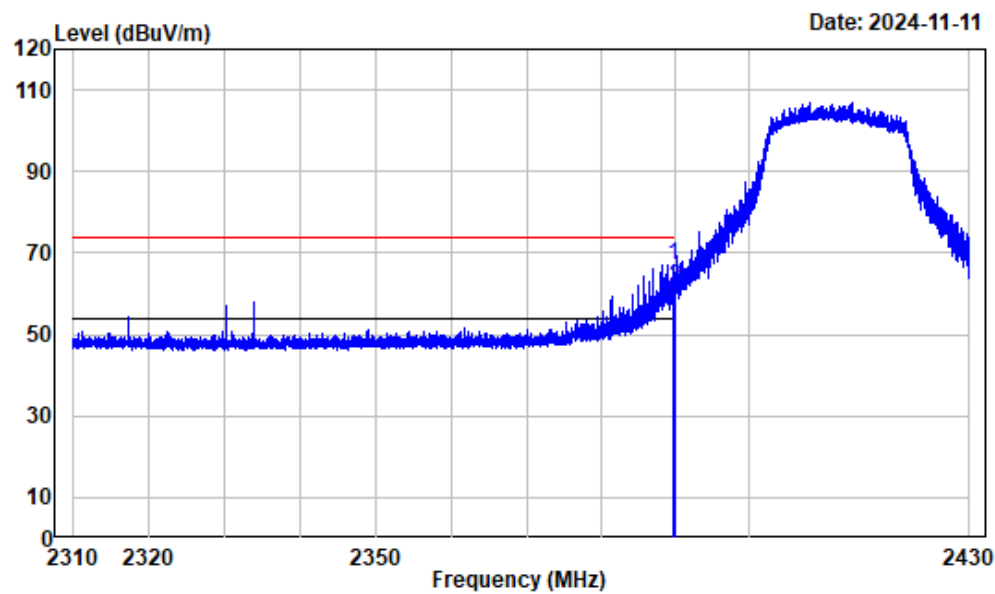
Right Band edge\_Vertical\_Average-2452



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2483.500 | -3.17  | 41.81      | 38.64  | 54.00      | -15.36     | Average |

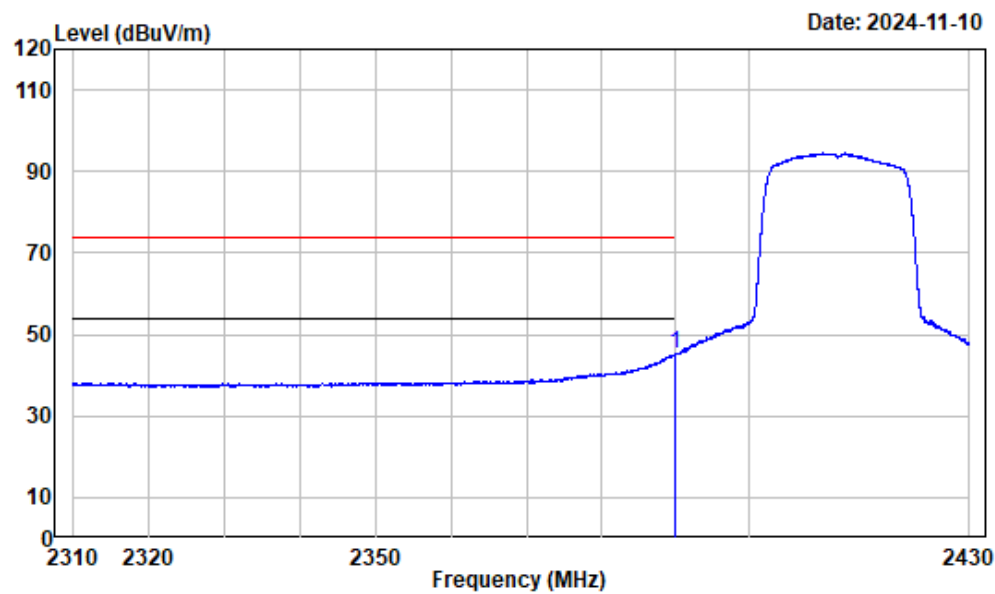
Left Band edge\_Horizontal\_Peak-2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq     | Factor | Read  |        | Limit  | Over   | Remark |
|---|----------|--------|-------|--------|--------|--------|--------|
|   | MHz      |        | Level | Level  | Line   | Limit  |        |
|   |          |        | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 | 2389.795 | -3.20  | 70.26 | 67.06  | 74.00  | -6.94  | peak   |
| 2 | 2390.000 | -3.20  | 64.97 | 61.77  | 74.00  | -12.23 | Peak   |

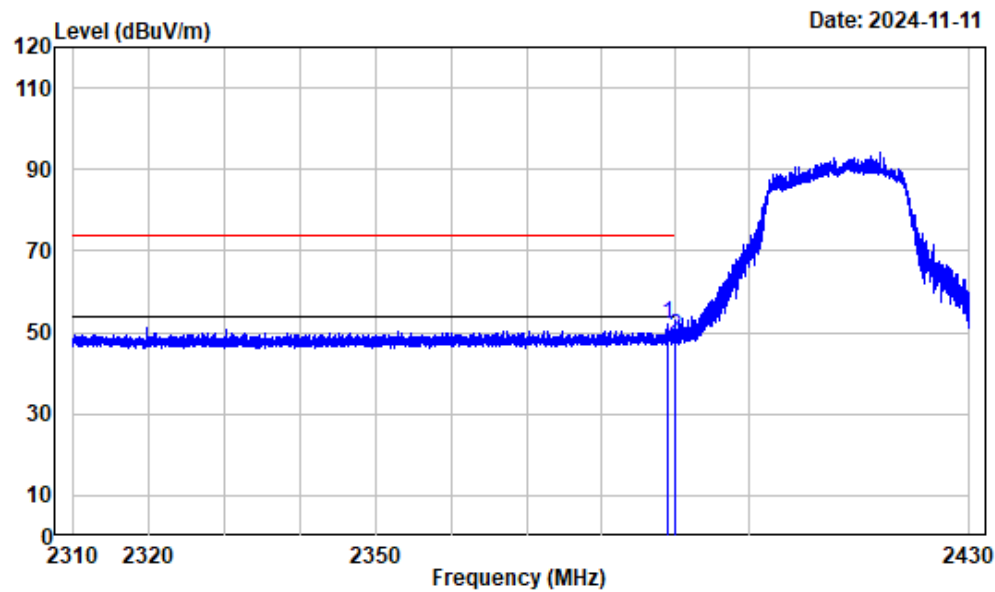
Left Band edge\_Horizontal\_Average-2412



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2390.000  | -3.20 | 48.51      | 45.31  | 54.00      | -8.69      | Average |

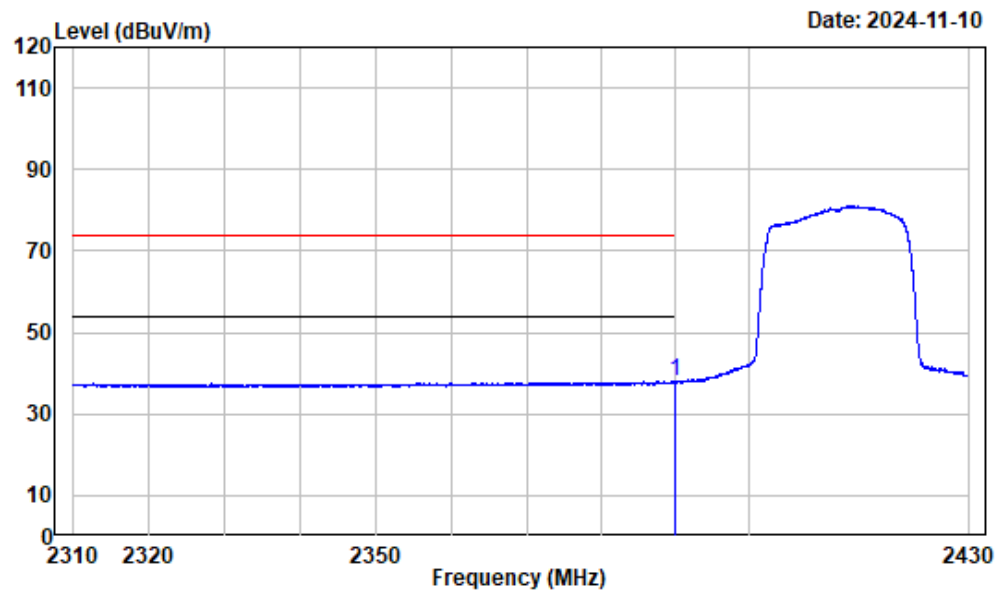
Left Band edge\_Veritical\_Peak-2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2389.090 | -3.20  | 55.30      | 52.10  | 74.00      | -21.90     | peak   |
| 2 | 2390.000 | -3.20  | 52.07      | 48.87  | 74.00      | -25.13     | Peak   |

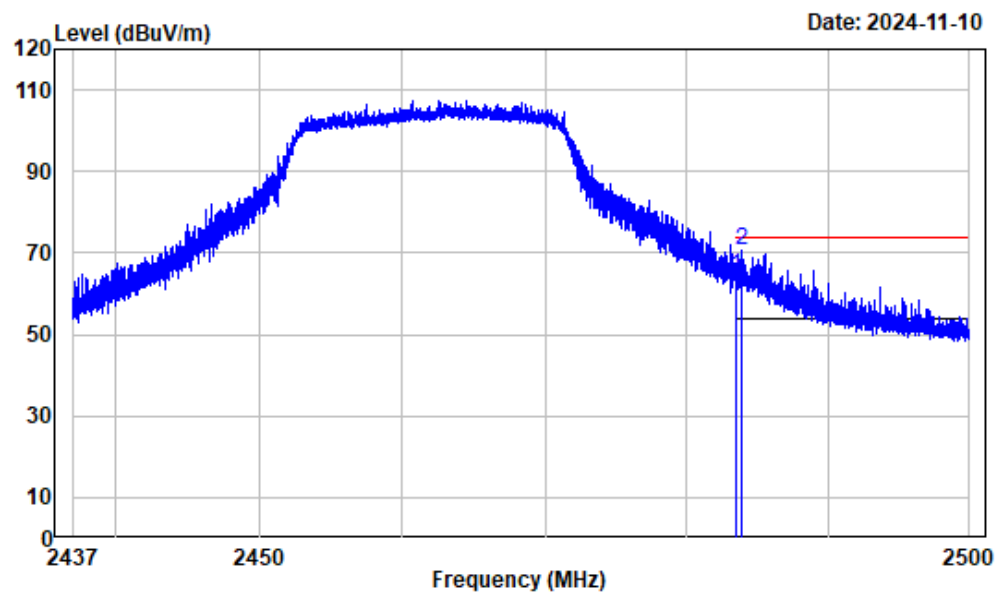
Left Band edge\_Vertical\_Average-2412



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2390.000  | -3.20 | 41.03      | 37.83  | 54.00      | -16.17     | Average |

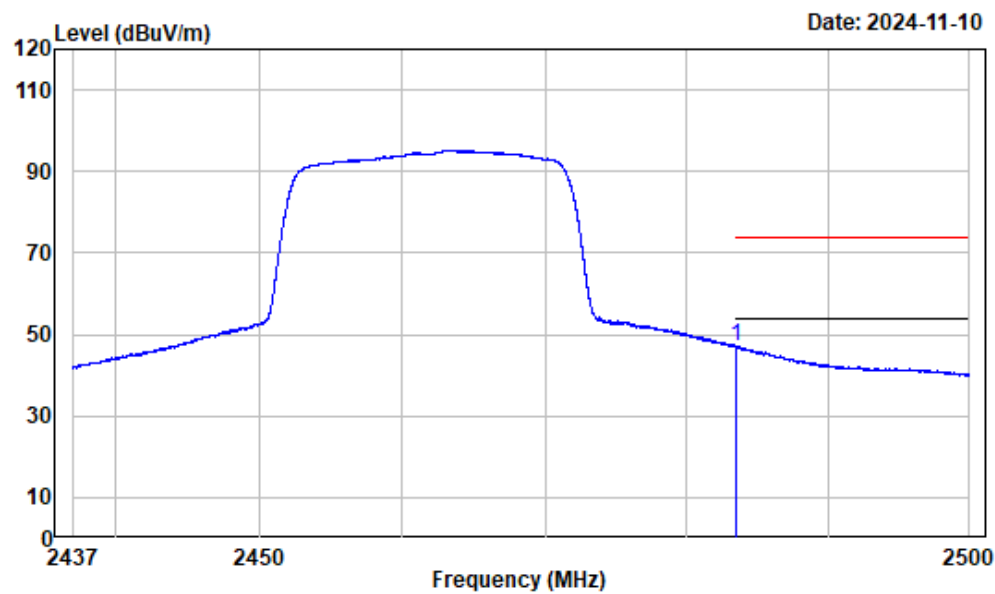
Right Band edge\_Horizontal\_Peak-2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 67.37      | 64.20  | 74.00      | -9.80      | Peak   |
| 2 | 2483.831 | -3.17  | 73.94      | 70.77  | 74.00      | -3.23      | peak   |

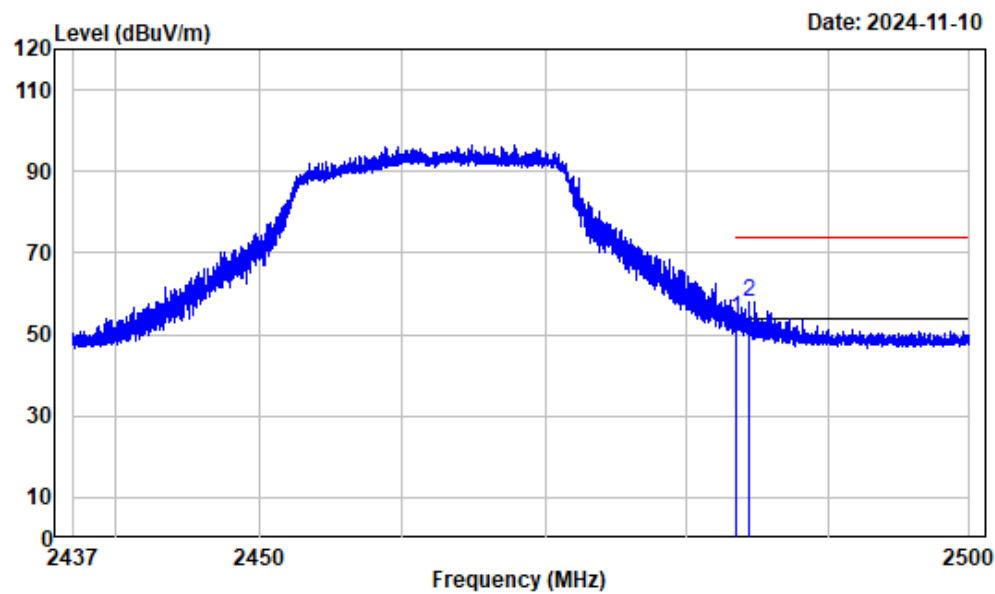
Right Band edge\_Horizontal\_Average-2462



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2462

| Freq Factor |          | Read Level |        | Limit  | Over  | Remark        |
|-------------|----------|------------|--------|--------|-------|---------------|
| MHz         | dB/m     | dBuV       | dBuV/m | dBuV/m | dB    |               |
| 1           | 2483.500 | -3.17      | 50.06  | 46.89  | 54.00 | -7.11 Average |

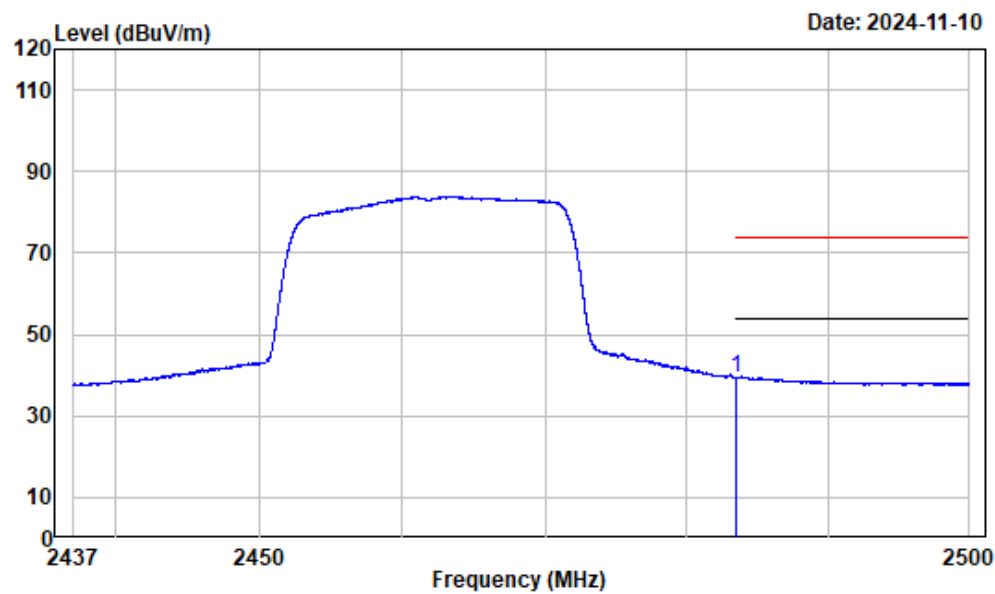
Right Band edge\_Vertical\_Peak -2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2462

| Freq |          | Factor | Read  |        | Limit  | Over   | Remark |
|------|----------|--------|-------|--------|--------|--------|--------|
|      |          |        | Level | Level  | Line   | Limit  |        |
|      | MHz      | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2483.500 | -3.17  | 57.01 | 53.84  | 74.00  | -20.16 | Peak   |
| 2    | 2484.358 | -3.17  | 61.29 | 58.12  | 74.00  | -15.88 | peak   |

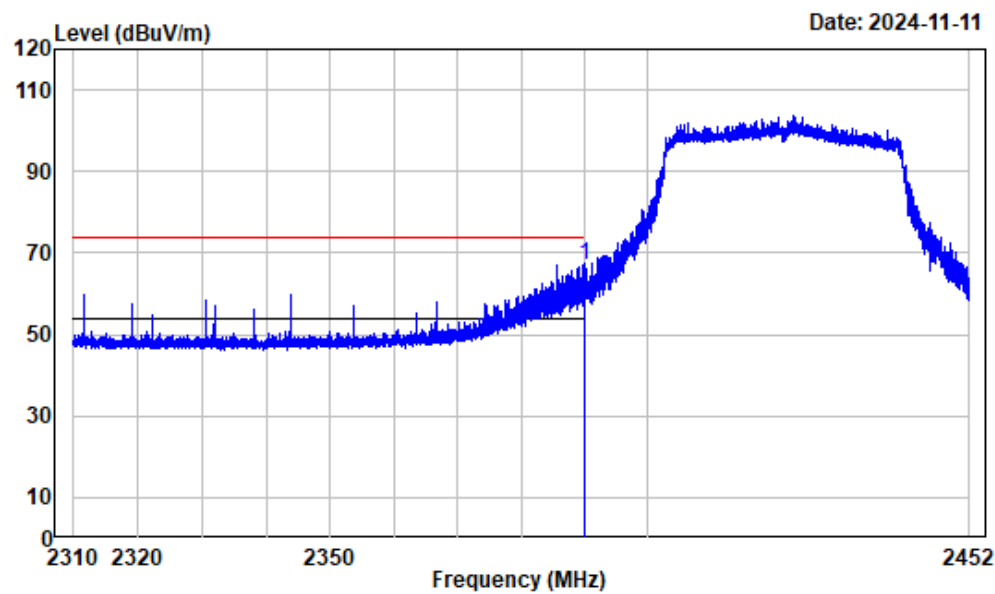
Right Band edge\_Vertical\_Average -2462



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2462

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2483.500  | -3.17 | 42.51      | 39.34  | 54.00      | -14.66     | Average |

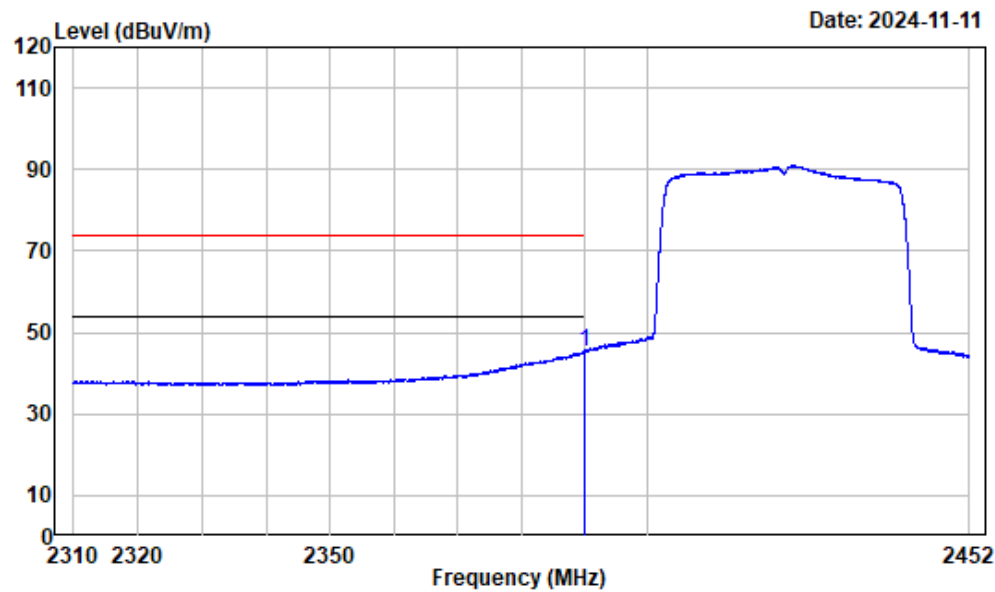
Left Band edge\_Horizontal\_Peak -2422



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2422

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark |
|-------------|-------|------------|--------|------------|------------|--------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 2390.000  | -3.20 | 70.34      | 67.14  | 74.00      | -6.86      | peak   |

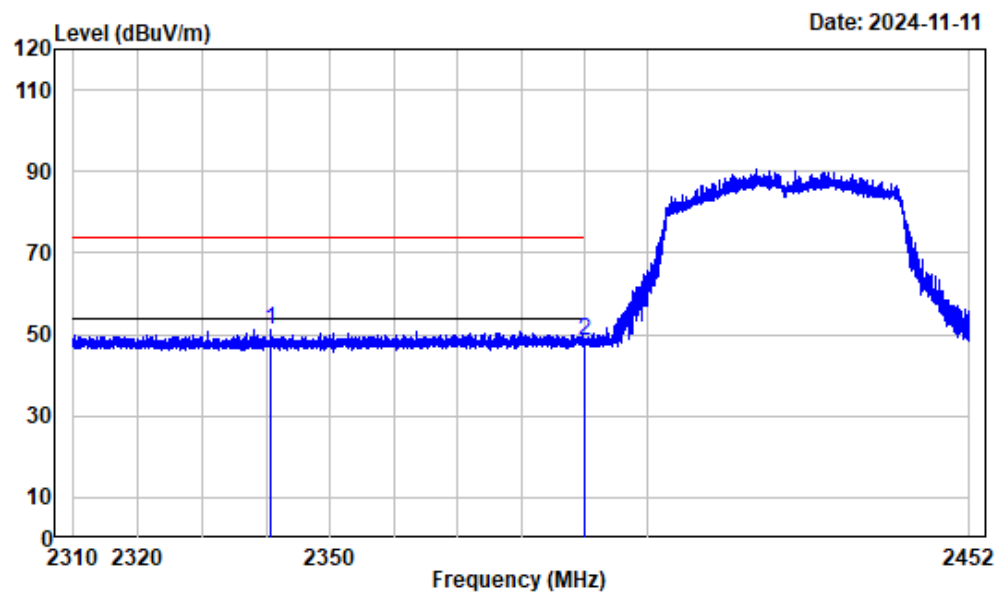
Left Band edge\_Horizontal\_Average -2422



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2422

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2390.000  | -3.20 | 48.26      | 45.06  | 54.00      | -8.94      | Average |

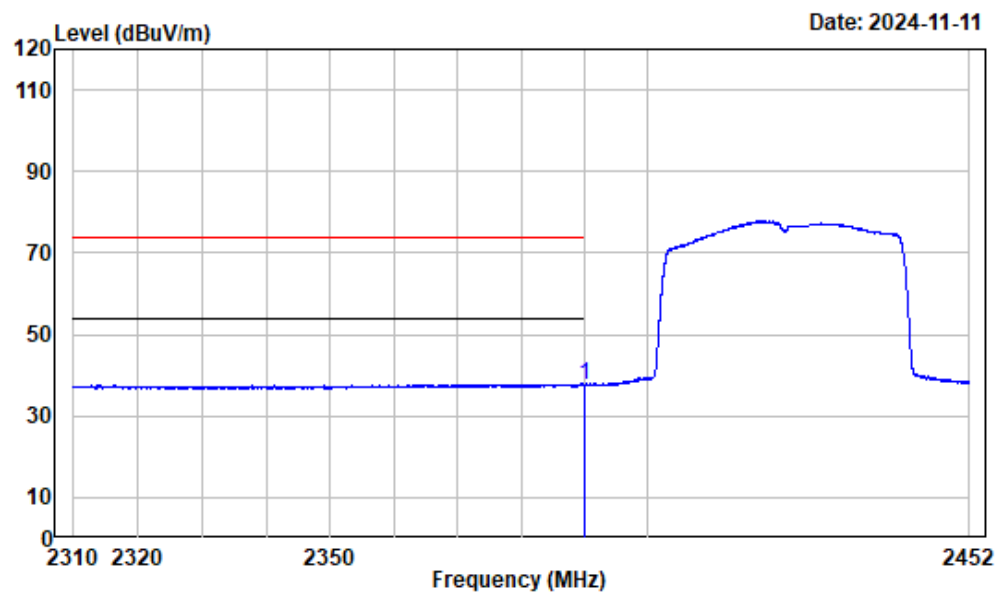
Left Band edge\_Vertical\_Peak -2422



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2422

| Freq |          | Factor | Read  |        | Limit  | Over   | Remark |
|------|----------|--------|-------|--------|--------|--------|--------|
|      |          |        | Level | Level  | Line   | Limit  |        |
|      | MHz      | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2340.623 | -3.14  | 54.36 | 51.22  | 74.00  | -22.78 | peak   |
| 2    | 2390.000 | -3.20  | 51.51 | 48.31  | 74.00  | -25.69 | Peak   |

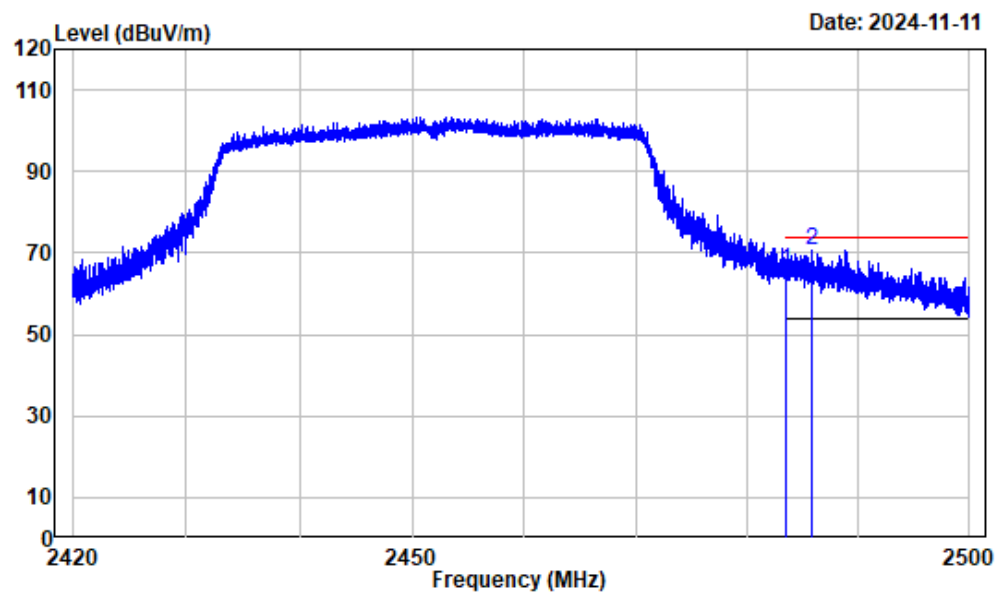
Left Band edge\_Vertical\_Average -2422



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2422

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2390.000  | -3.20 | 40.72      | 37.52  | 54.00      | -16.48     | Average |

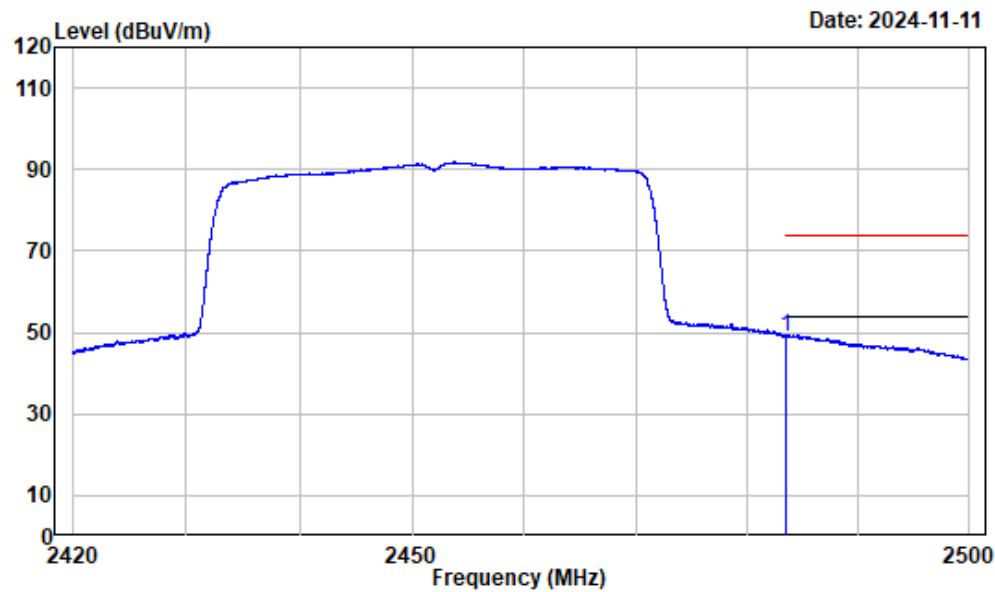
Right Band edge\_Horizontal\_Peak -2452



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|----------|--------|------------|--------|------------|------------|--------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 2483.500 | -3.17  | 68.95      | 65.78  | 74.00      | -8.22      | Peak   |
| 2 | 2485.748 | -3.17  | 73.99      | 70.82  | 74.00      | -3.18      | peak   |

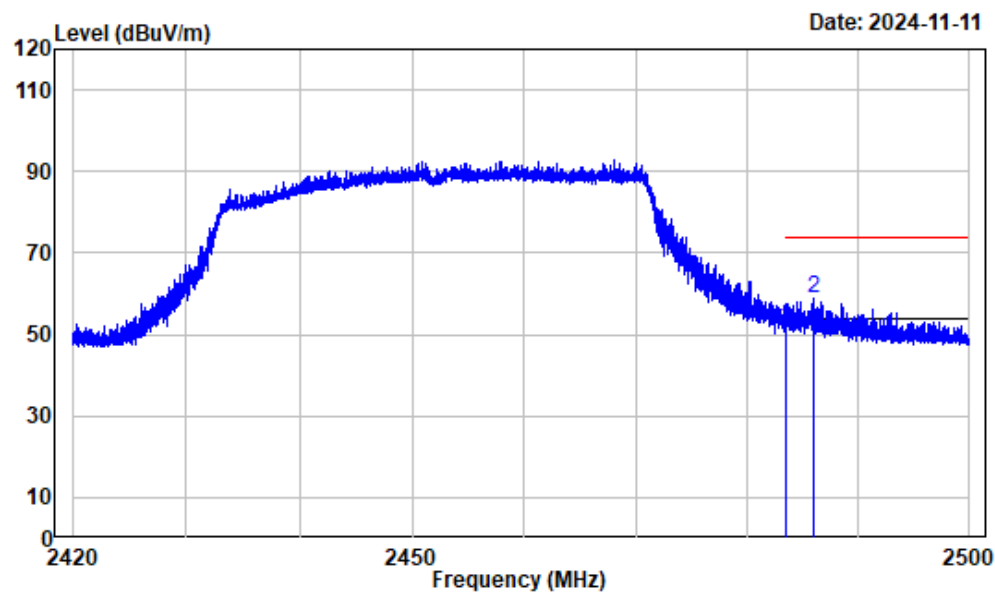
Right Band edge\_Horizontal\_Average -2452



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2483.500  | -3.17 | 52.18      | 49.01  | 54.00      | -4.99      | Average |

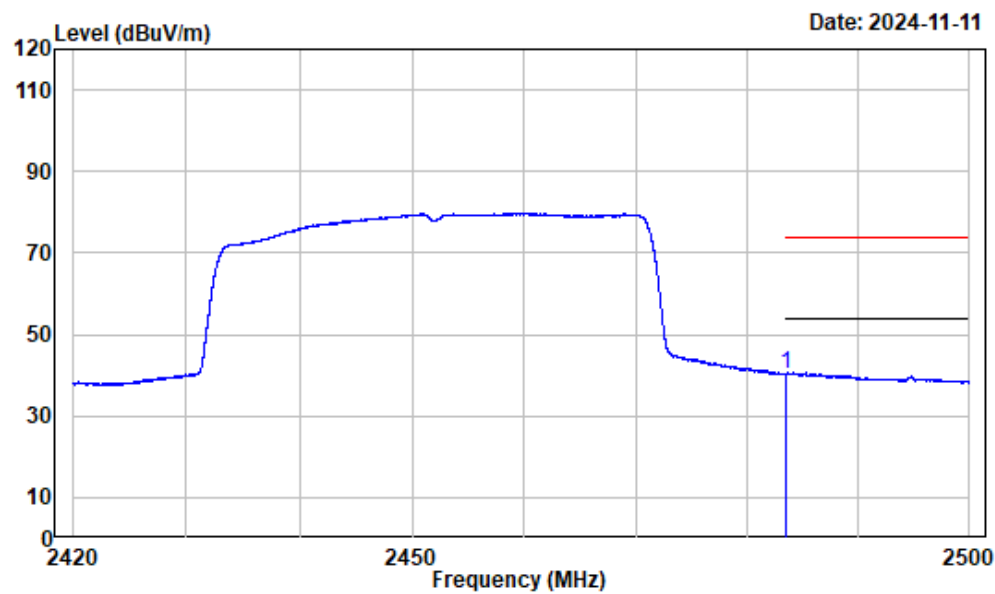
Right Band edge\_Vertical\_Peak -2452



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

| Freq |          | Factor | Read  |        | Limit  | Over   | Remark |
|------|----------|--------|-------|--------|--------|--------|--------|
|      |          |        | Level | Level  | Line   | Limit  |        |
|      | MHz      | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1    | 2483.500 | -3.17  | 54.80 | 51.63  | 74.00  | -22.37 | Peak   |
| 2    | 2485.948 | -3.17  | 61.85 | 58.68  | 74.00  | -15.32 | peak   |

Right Band edge\_Vertical\_Average -2452

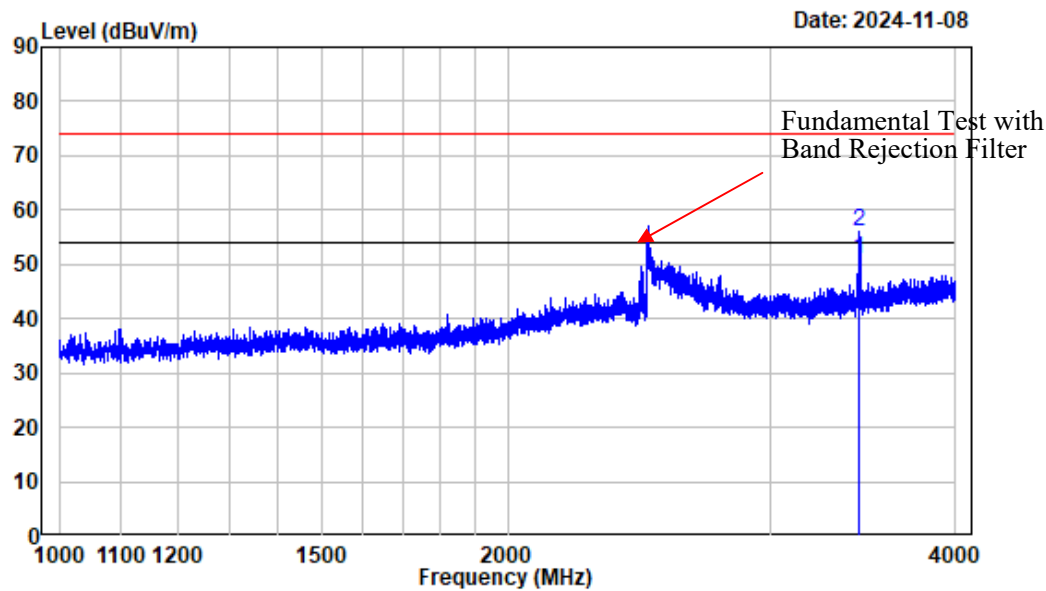


Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

| Freq Factor |       | Read Level |        | Limit Line | Over Limit | Remark  |
|-------------|-------|------------|--------|------------|------------|---------|
| MHz         | dB/m  | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 2483.500  | -3.17 | 43.38      | 40.21  | 54.00      | -13.79     | Average |

1-18GHz Worst case harmonic plots:

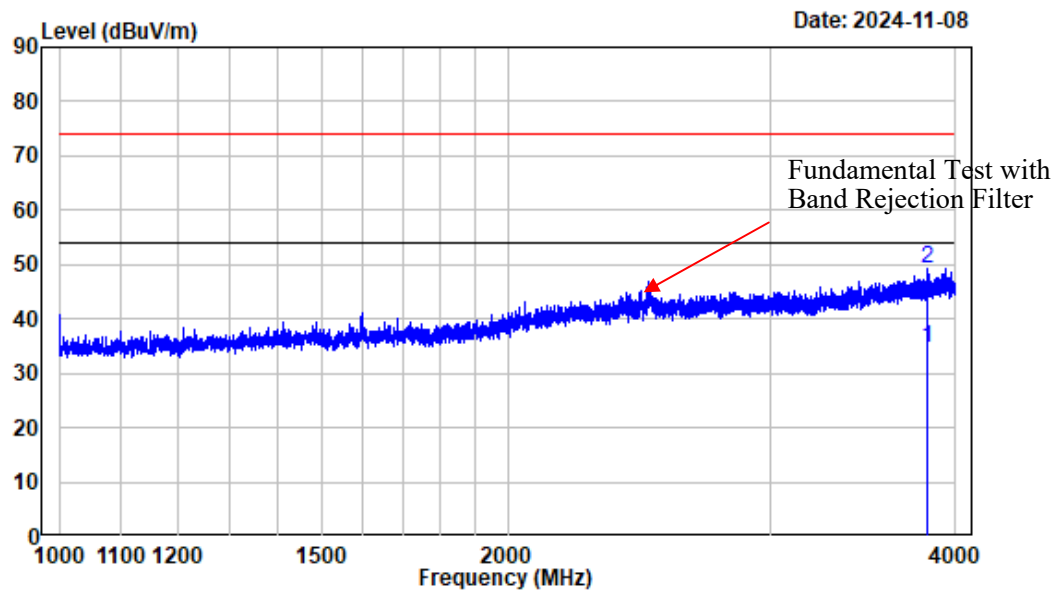
1-4GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|----------|--------|------------|--------|------------|------------|---------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 3449.056 | -2.43  | 53.31      | 50.88  | 54.00      | -3.12      | Average |
| 2 | 3449.056 | -2.43  | 58.41      | 55.98  | 74.00      | -18.02     | Peak    |

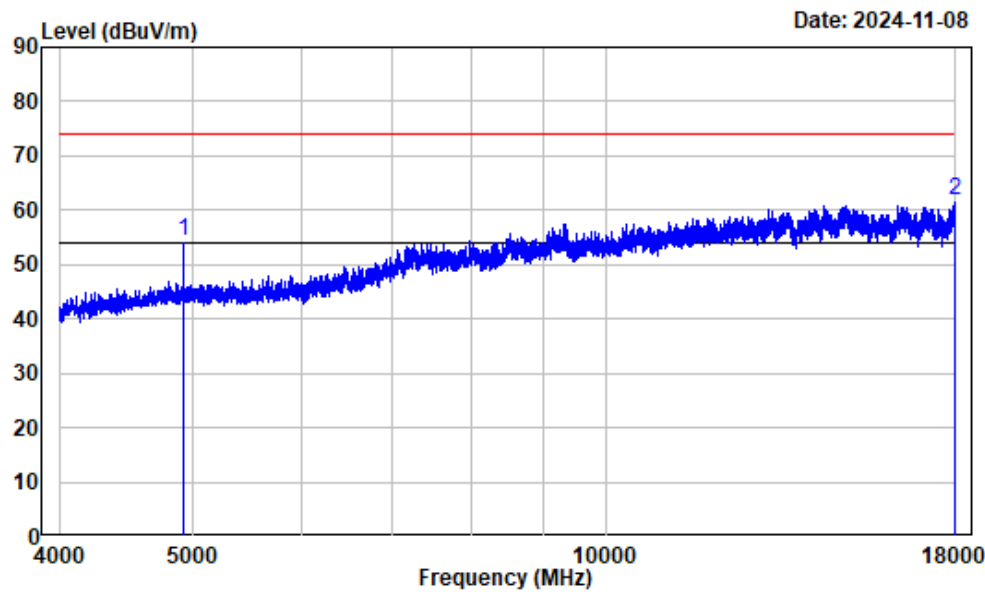
1-4GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|      |          | Read  |       | Limit  | Over   | Remark         |
|------|----------|-------|-------|--------|--------|----------------|
| Freq |          | Level | Level | Line   | Limit  |                |
|      | MHz      | dB/m  | dBuV  | dBuV/m | dBuV/m |                |
| 1    | 3834.229 | -0.77 | 35.48 | 34.71  | 54.00  | -19.29 Average |
| 2    | 3834.229 | -0.77 | 49.96 | 49.19  | 74.00  | -24.81 Peak    |

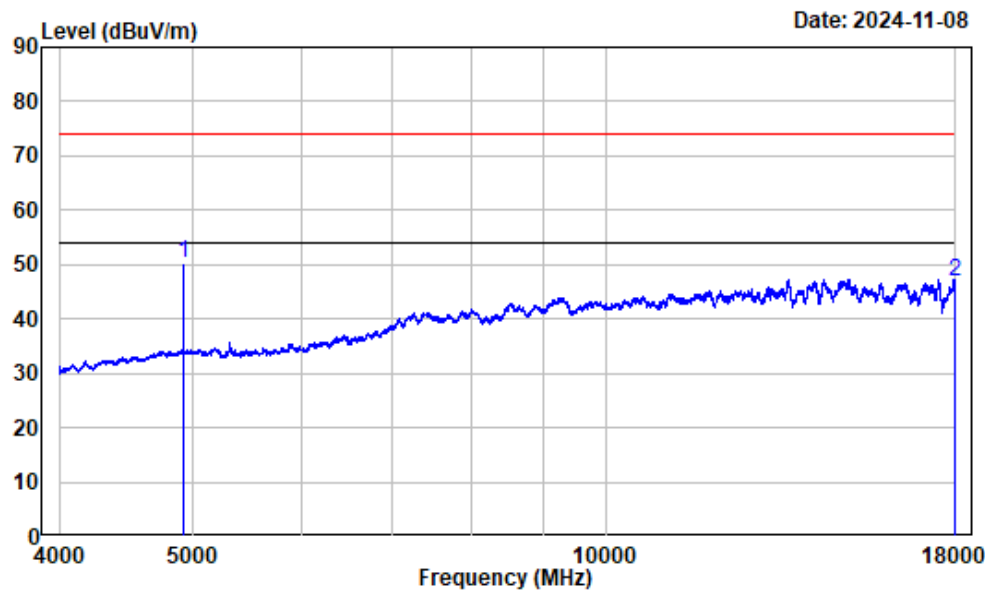
4-18GHz\_Horizontal\_Peak



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4924.000  | 2.63   | 51.56      | 54.19  | 74.00      | -19.81     | Peak   |
| 2 | 18000.000 | 24.62  | 37.11      | 61.73  | 74.00      | -12.27     | Peak   |

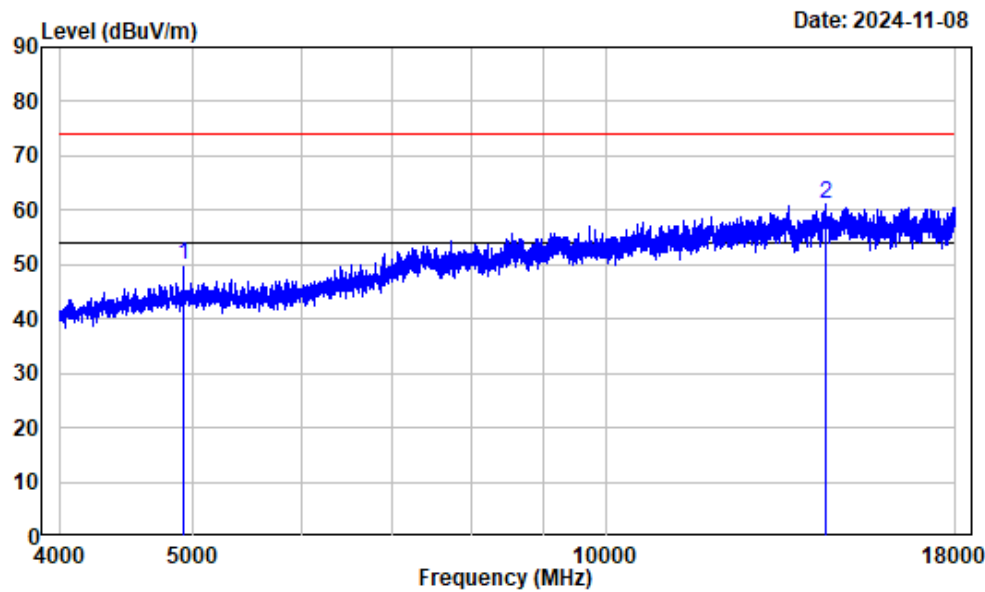
4-18GHz\_Horizontal\_Average



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4924.000  | 2.63   | 47.53         | 50.16  | 54.00         | -3.84         | Average |
| 2 | 17986.000 | 24.52  | 22.50         | 47.02  | 54.00         | -6.98         | Average |

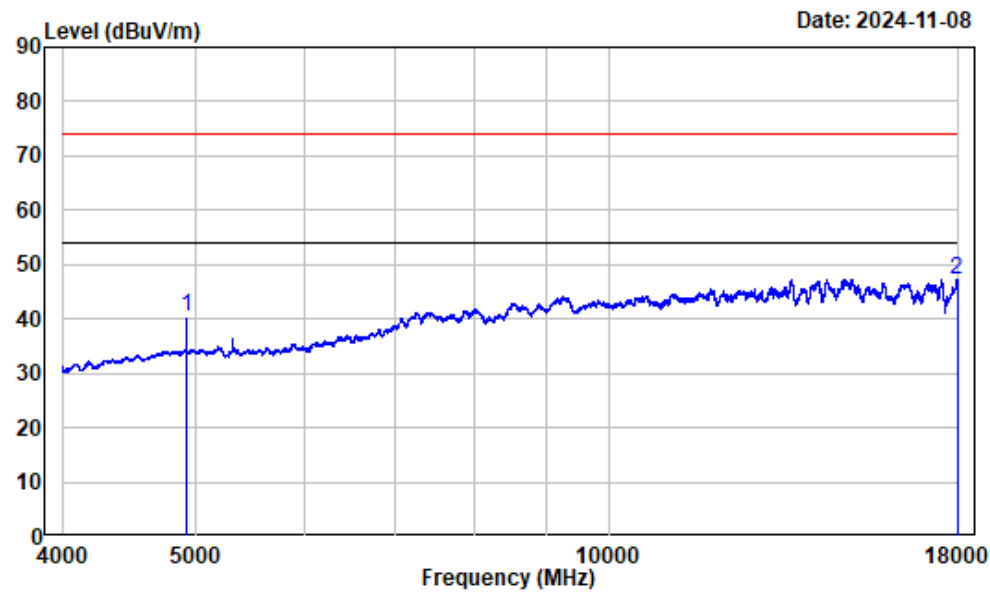
4-18GHz\_Vertical\_Peak



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|      |           | Read   |       | Limit  | Over   | Remark      |
|------|-----------|--------|-------|--------|--------|-------------|
| Freq |           | Factor | Level | Level  | Line   |             |
|      | MHz       | dB/m   | dBuV  | dBuV/m | dBuV/m | dB          |
| 1    | 4924.000  | 2.63   | 47.18 | 49.81  | 74.00  | -24.19 Peak |
| 2    | 14494.310 | 17.46  | 43.72 | 61.18  | 74.00  | -12.82 Peak |

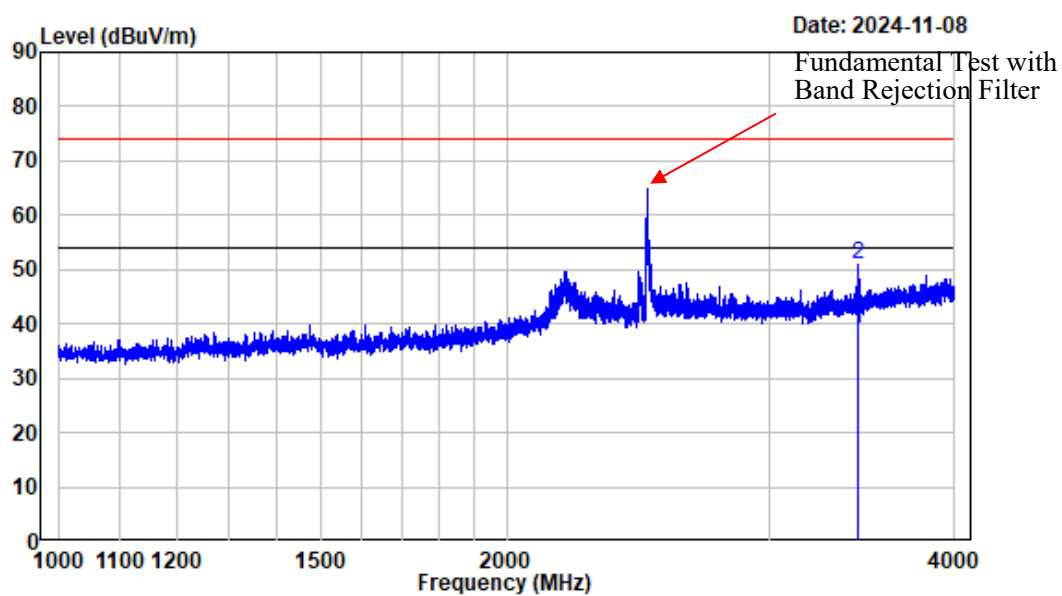
4-18GHz\_Vertical\_Average



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4924.000  | 2.63   | 37.95      | 40.58  | 54.00      | -13.42     | Average |
| 2 | 17956.240 | 24.31  | 22.92      | 47.23  | 54.00      | -6.77      | Average |

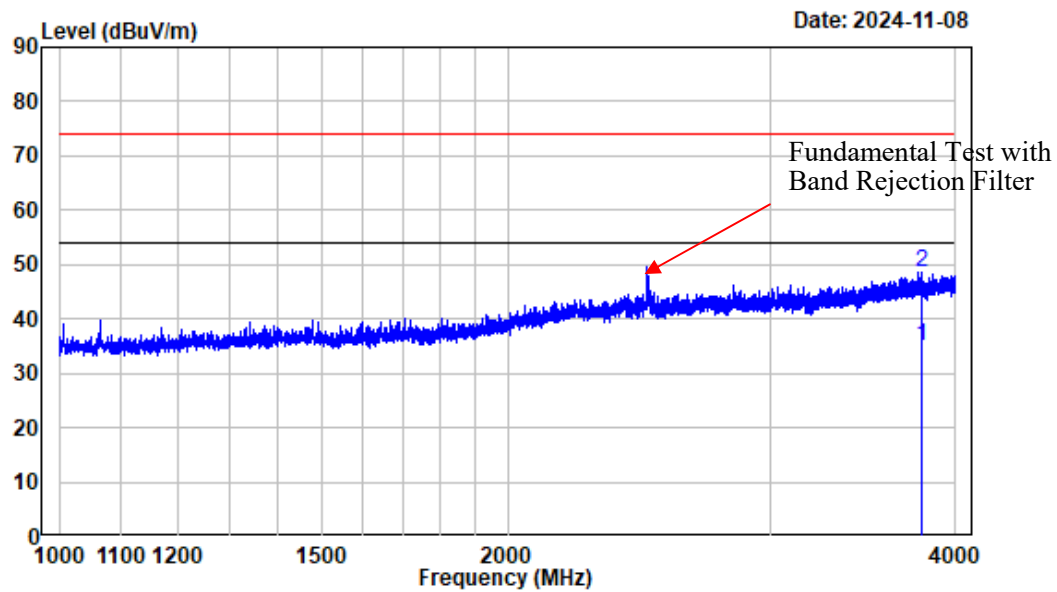
## 1-4GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq     | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz      | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 3447.556 | -2.43  | 41.36         | 38.93  | 54.00         | -15.07        | Average |
| 2 | 3447.556 | -2.43  | 53.51         | 51.08  | 74.00         | -22.92        | Peak    |

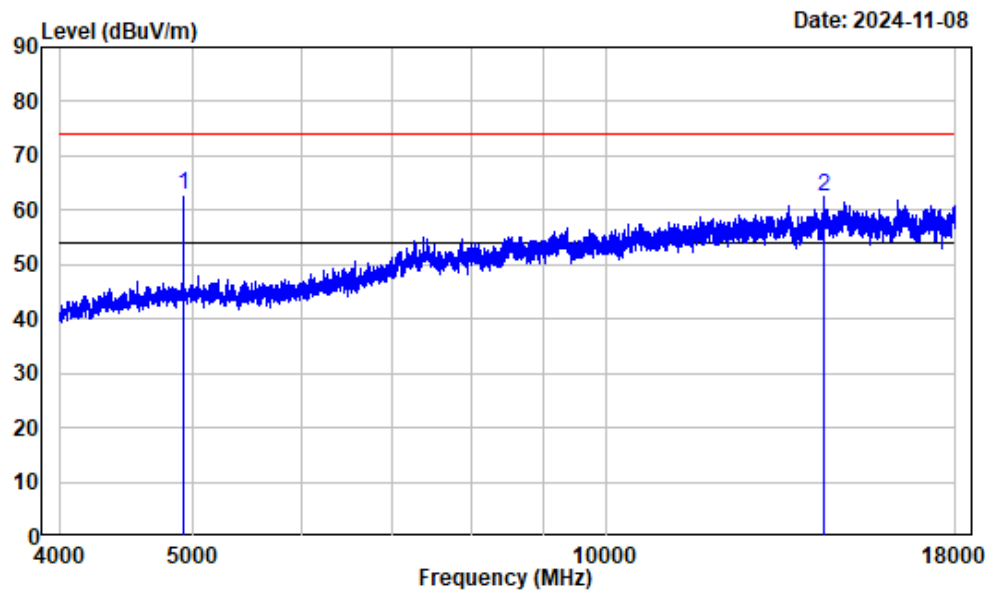
1-4GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|      |          | Read  |        | Limit  | Over  | Remark         |
|------|----------|-------|--------|--------|-------|----------------|
| Freq |          | Level | Level  | Line   | Limit |                |
| MHz  | dB/m     | dBuV  | dBuV/m | dBuV/m | dB    |                |
| 1    | 3798.975 | -0.74 | 35.73  | 34.99  | 54.00 | -19.01 Average |
| 2    | 3798.975 | -0.74 | 49.25  | 48.51  | 74.00 | -25.49 Peak    |

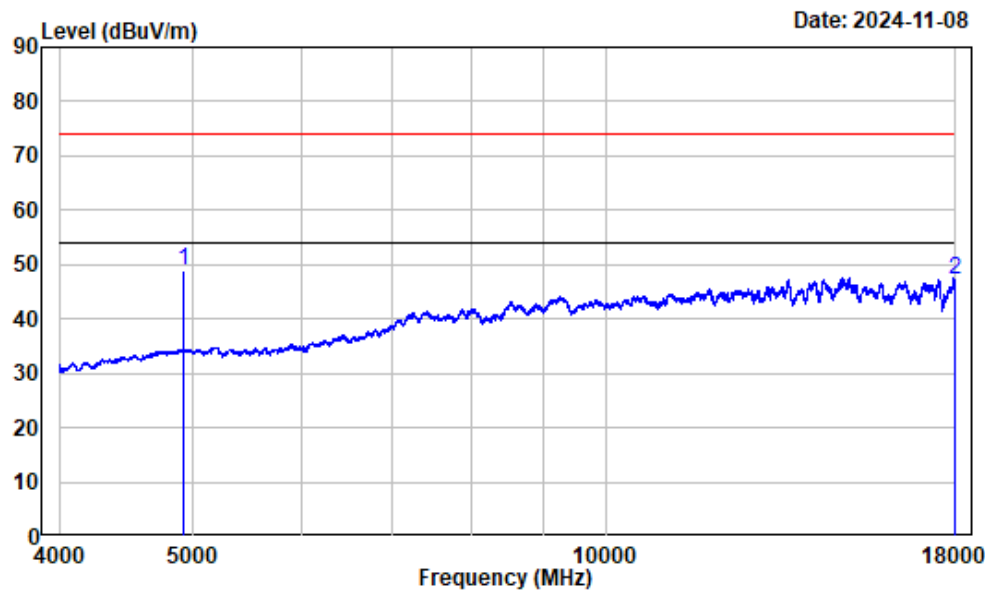
4-18GHz\_Horizontal\_Peak



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4924.000  | 2.63   | 60.33      | 62.96  | 74.00      | -11.04     | Peak   |
| 2 | 14424.300 | 17.29  | 45.17      | 62.46  | 74.00      | -11.54     | Peak   |

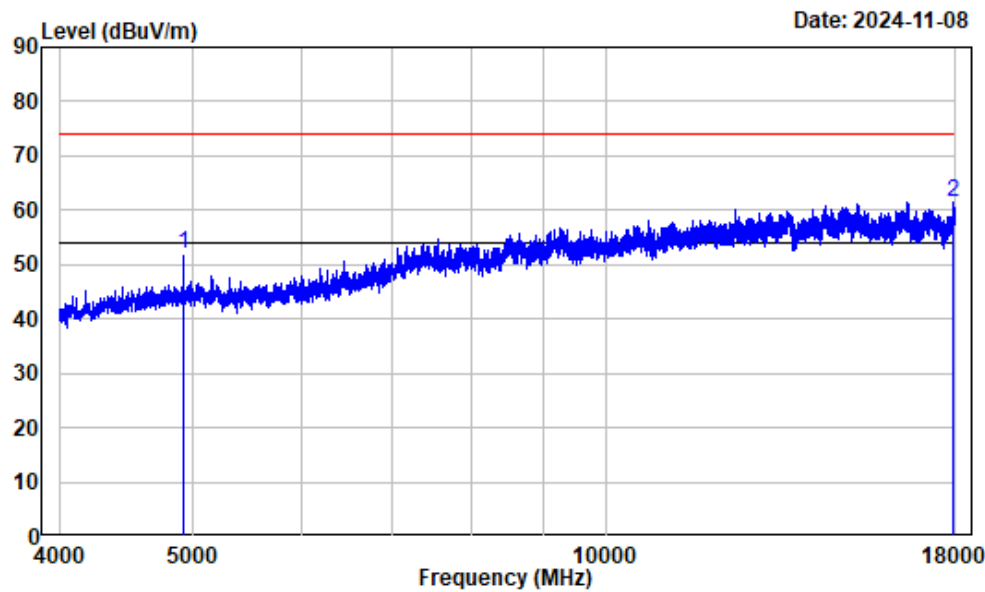
4-18GHz\_Horizontal\_Average



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4924.000  | 2.63   | 46.23         | 48.86  | 54.00         | -5.14         | Average |
| 2 | 18000.000 | 24.62  | 22.61         | 47.23  | 54.00         | -6.77         | Average |

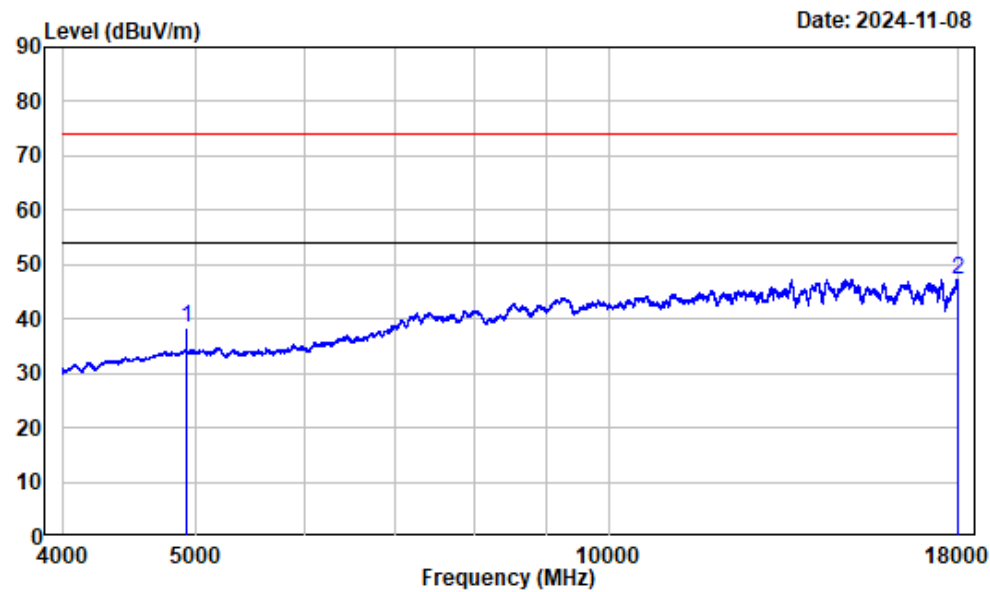
4-18GHz\_Vertical\_Peak



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|-----------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 4924.000  | 2.63   | 49.41         | 52.04  | 74.00         | -21.96        | Peak   |
| 2 | 17950.990 | 24.28  | 37.08         | 61.36  | 74.00         | -12.64        | Peak   |

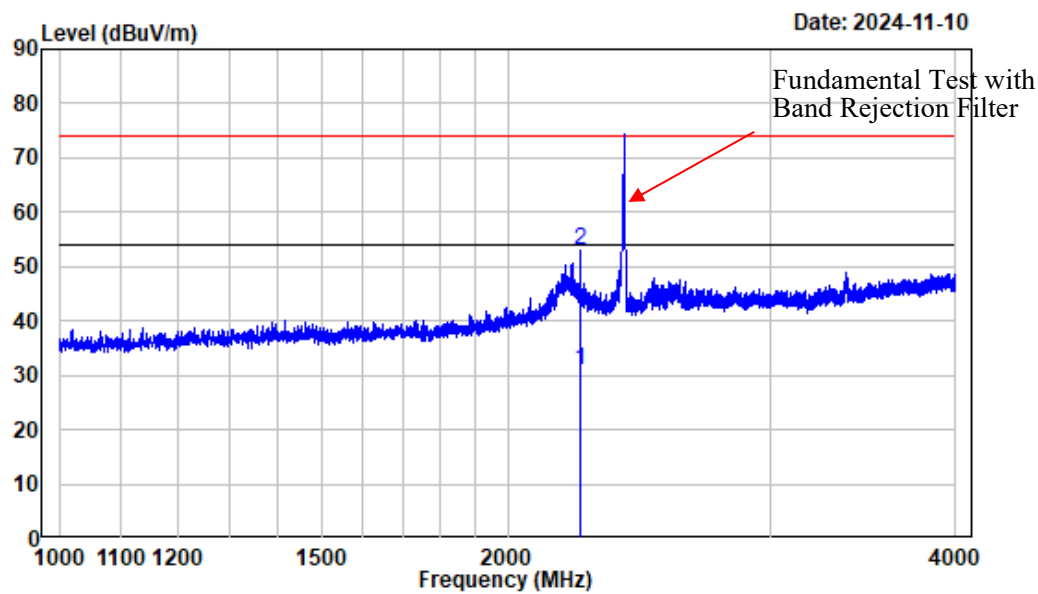
4-18GHz\_Vertical\_Average



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11G\_2462

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4924.000  | 2.63   | 35.78         | 38.41  | 54.00         | -15.59        | Average |
| 2 | 17989.500 | 24.55  | 22.53         | 47.08  | 54.00         | -6.92         | Average |

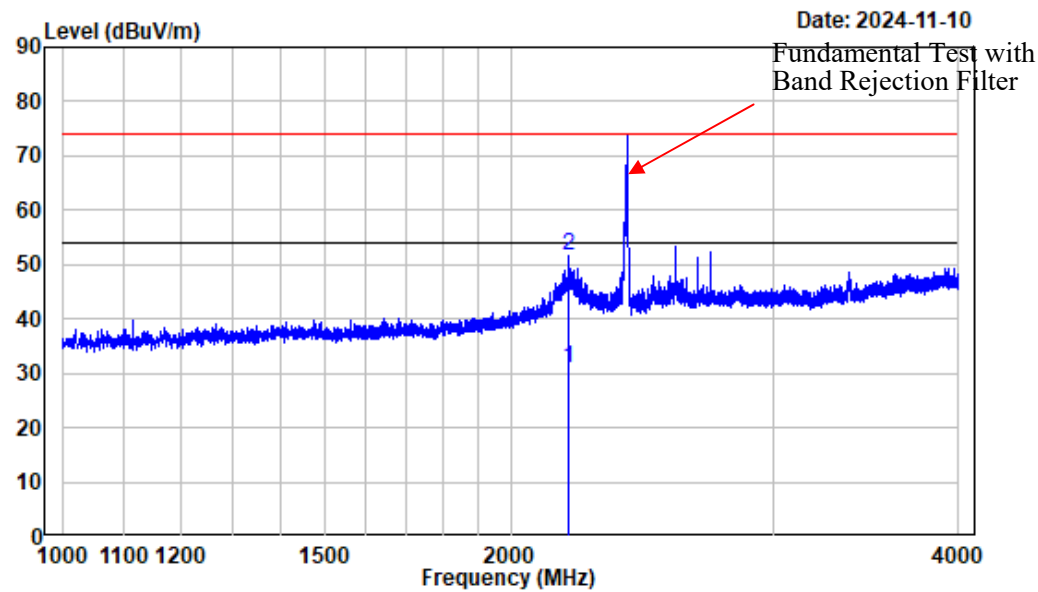
1-4GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2236.155 | -3.36  | 34.36      | 31.00  | 54.00      | -23.00     | Average |
| 2    | 2236.155 | -3.36  | 56.37      | 53.01  | 74.00      | -20.99     | Peak    |

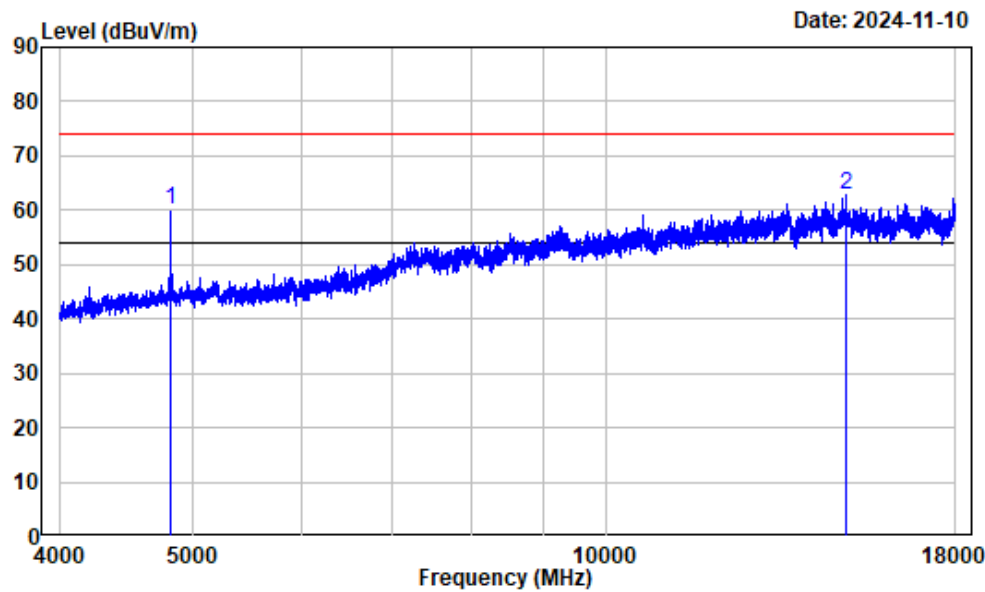
1-4GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

| Freq |          | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|------|----------|--------|------------|--------|------------|------------|---------|
| MHz  |          | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1    | 2187.773 | -3.36  | 34.27      | 30.91  | 54.00      | -23.09     | Average |
| 2    | 2187.773 | -3.36  | 55.06      | 51.70  | 74.00      | -22.30     | Peak    |

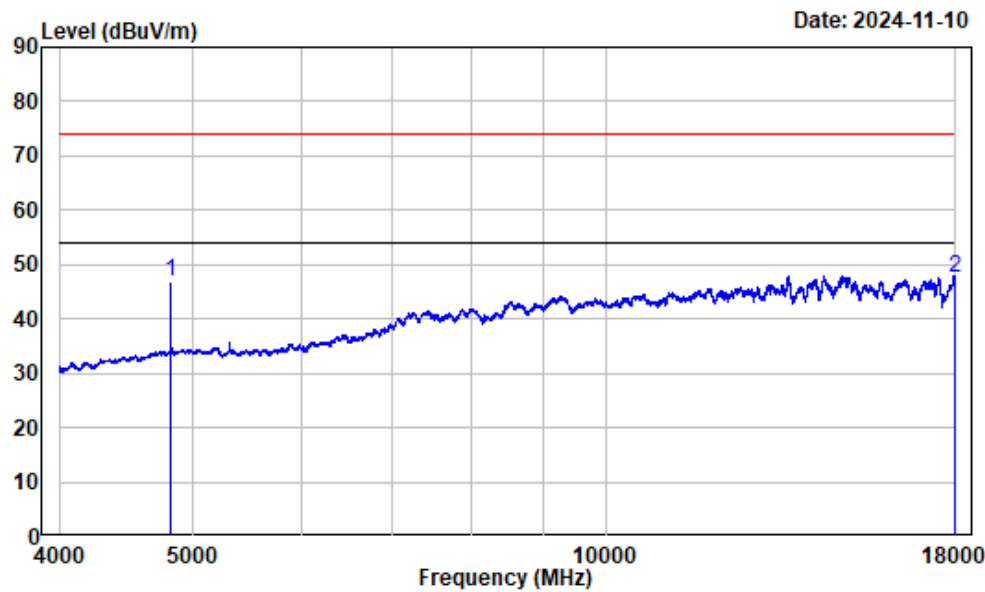
4-18GHz\_Horizontal\_Peak



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4824.000  | 2.45   | 57.56      | 60.01  | 74.00      | -13.99     | Peak   |
| 2 | 14966.870 | 16.40  | 46.41      | 62.81  | 74.00      | -11.19     | Peak   |

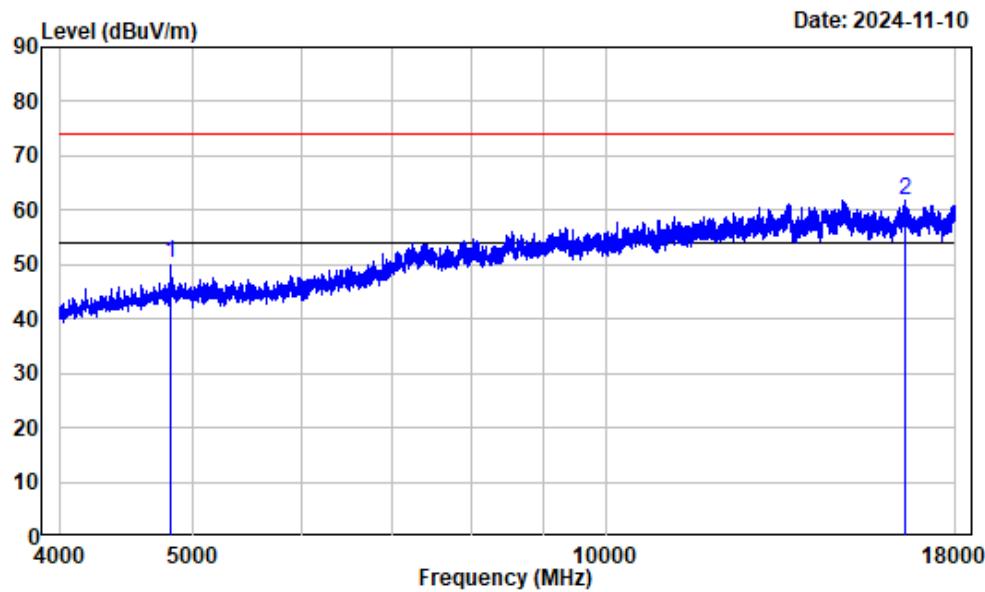
4-18GHz\_Horizontal\_Average



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4824.000  | 2.45   | 44.28         | 46.73  | 54.00         | -7.27         | Average |
| 2 | 17991.250 | 24.56  | 22.85         | 47.41  | 54.00         | -6.59         | Average |

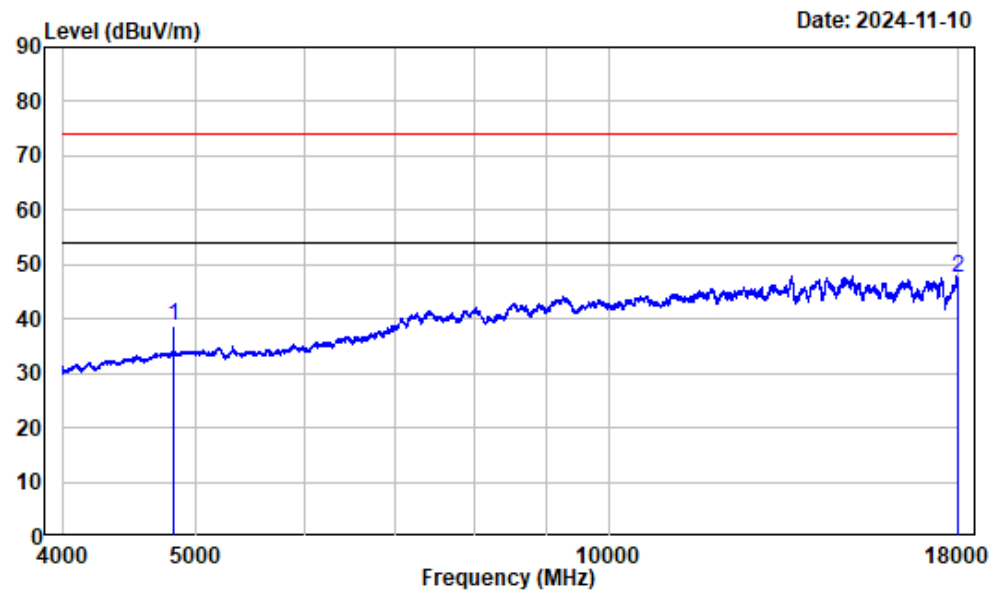
4-18GHz\_Vertical\_Peak



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4824.000  | 2.45   | 47.90      | 50.35  | 74.00      | -23.65     | Peak   |
| 2 | 16550.820 | 15.86  | 46.07      | 61.93  | 74.00      | -12.07     | Peak   |

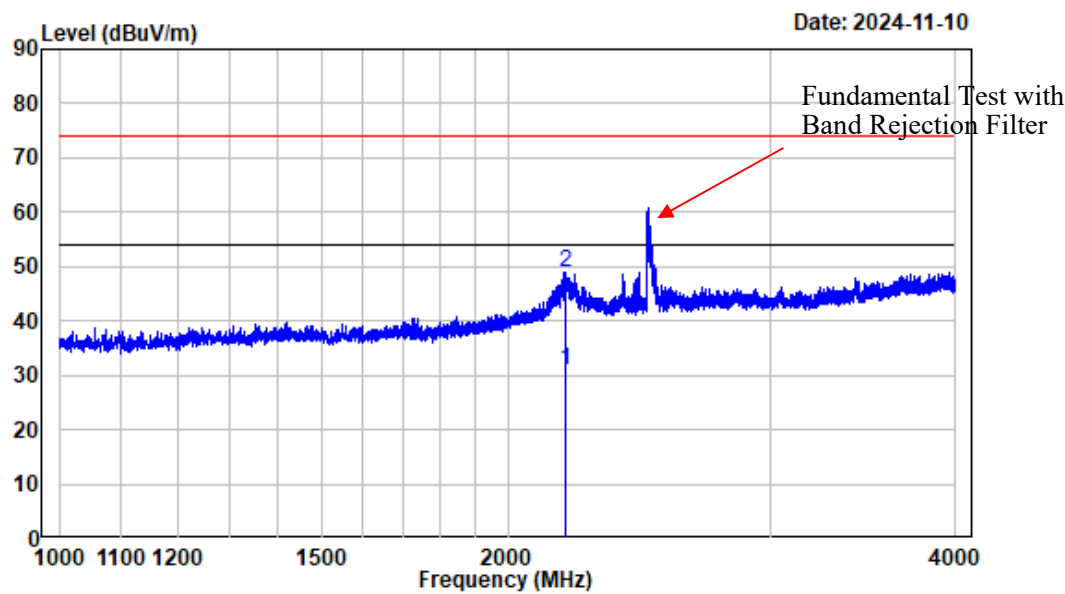
4-18GHz\_Vertical\_Average



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N20\_2412

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4824.000  | 2.45   | 36.32         | 38.77  | 54.00         | -15.23        | Average |
| 2 | 18000.000 | 24.62  | 22.98         | 47.60  | 54.00         | -6.40         | Average |

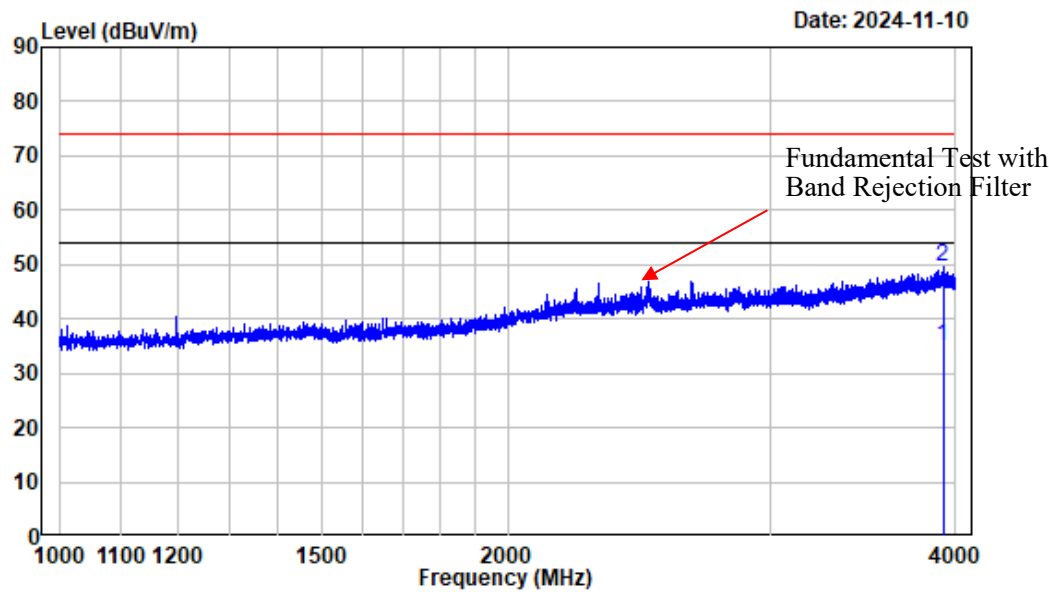
1-4GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|      |          | Read  |       | Limit  | Over   | Remark         |
|------|----------|-------|-------|--------|--------|----------------|
| Freq |          | Level | Level | Line   | Limit  |                |
|      | MHz      | dB/m  | dBuV  | dBuV/m | dBuV/m |                |
| 1    | 2191.149 | -3.30 | 34.25 | 30.95  | 54.00  | -23.05 Average |
| 2    | 2191.149 | -3.30 | 52.21 | 48.91  | 74.00  | -25.09 Peak    |

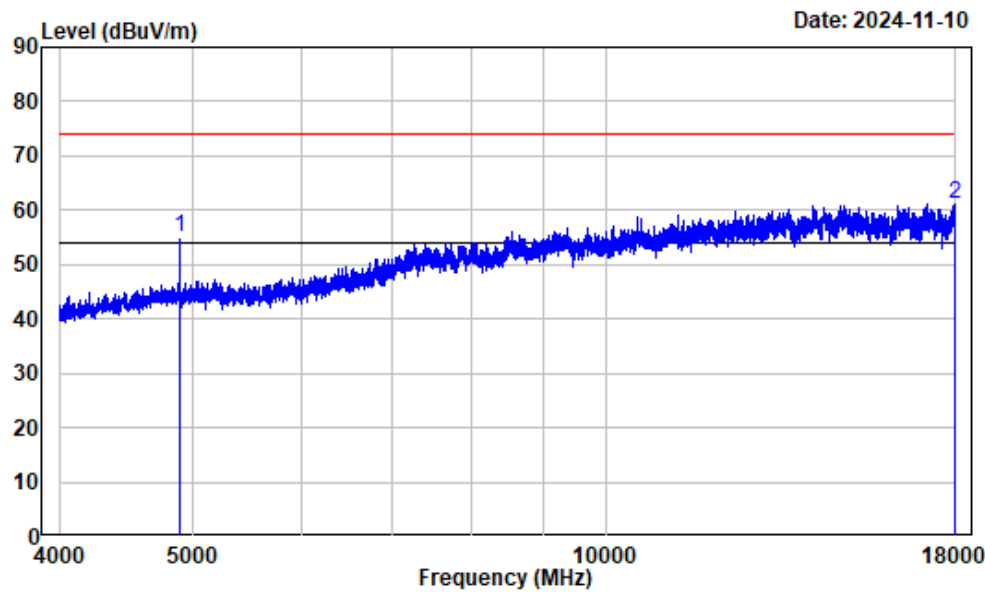
1-4GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|----------|--------|------------|--------|------------|------------|---------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 3923.490 | -0.36  | 35.48      | 35.12  | 54.00      | -18.88     | Average |
| 2 | 3923.490 | -0.36  | 50.01      | 49.65  | 74.00      | -24.35     | Peak    |

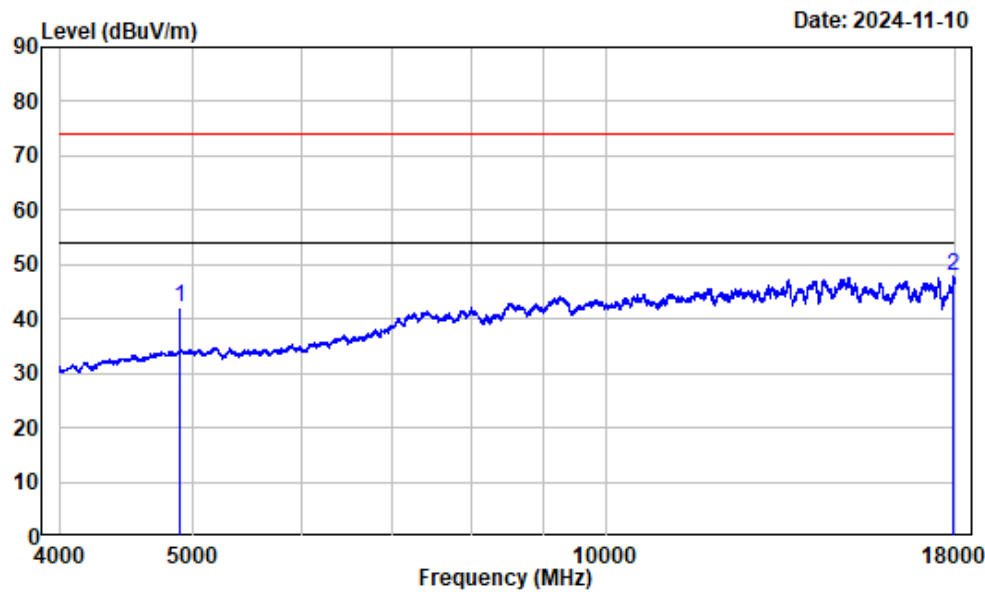
4-18GHz\_Horizontal\_Peak



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|-----------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 4904.000  | 2.64   | 52.31         | 54.95  | 74.00         | -19.05        | Peak   |
| 2 | 17993.000 | 24.57  | 36.51         | 61.08  | 74.00         | -12.92        | Peak   |

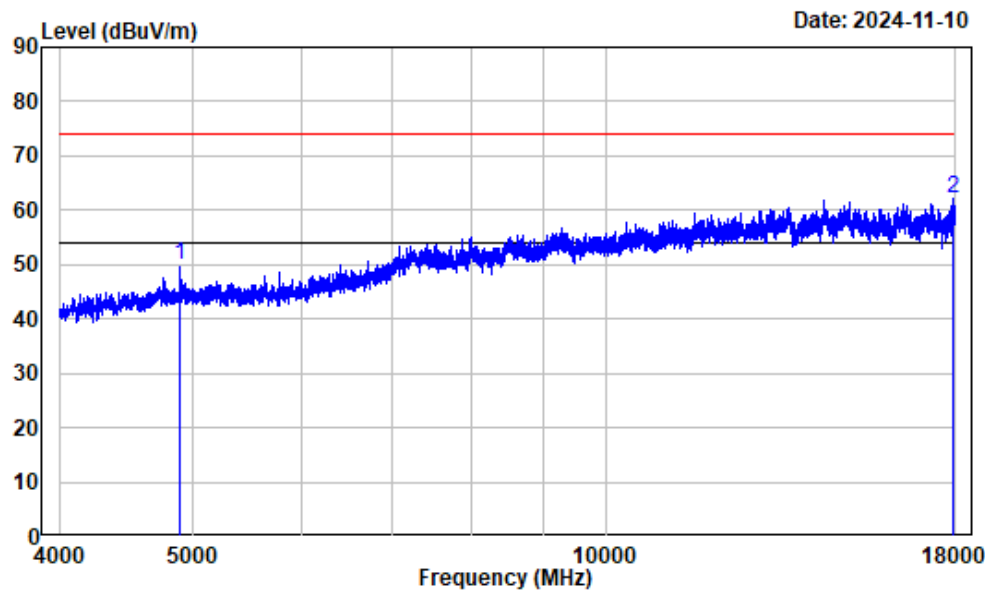
4-18GHz\_Horizontal\_Average



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4904.000  | 2.64   | 39.42      | 42.06  | 54.00      | -11.94     | Average |
| 2 | 17954.490 | 24.30  | 23.50      | 47.80  | 54.00      | -6.20      | Average |

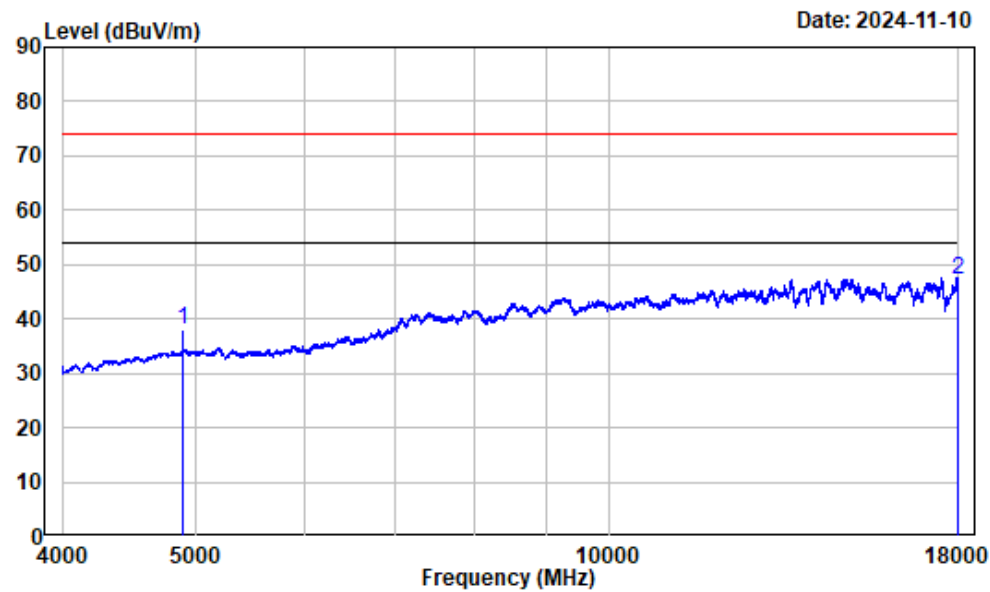
4-18GHz\_Vertical\_Peak



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4904.000  | 2.64   | 47.16      | 49.80  | 74.00      | -24.20     | Peak   |
| 2 | 17949.240 | 24.25  | 37.99      | 62.24  | 74.00      | -11.76     | Peak   |

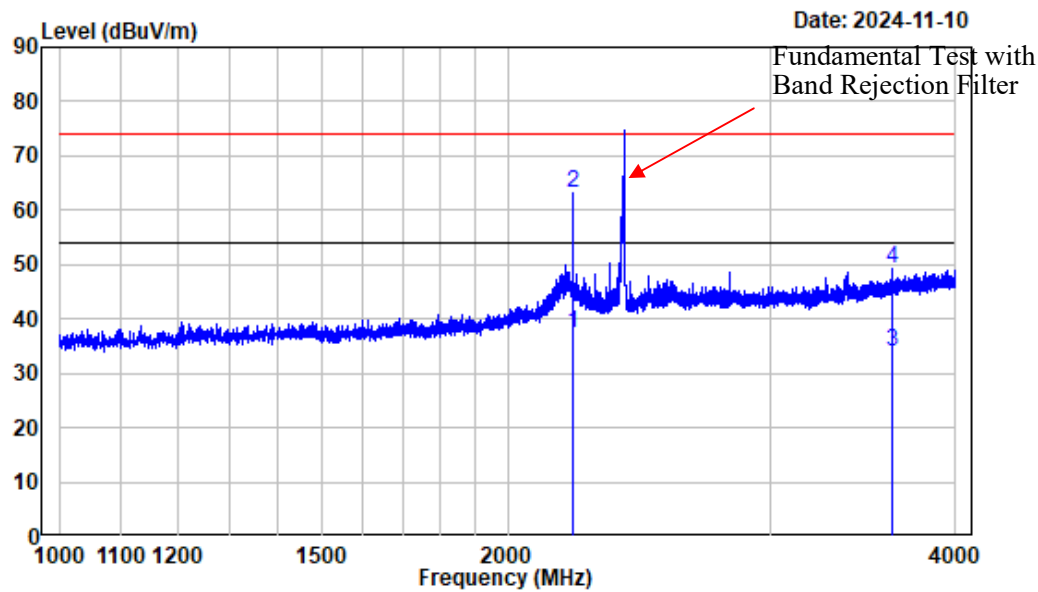
4-18GHz\_Vertical\_Average



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11N40\_2452

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4904.000  | 2.64   | 35.48         | 38.12  | 54.00         | -15.88        | Average |
| 2 | 17991.250 | 24.56  | 22.64         | 47.20  | 54.00         | -6.80         | Average |

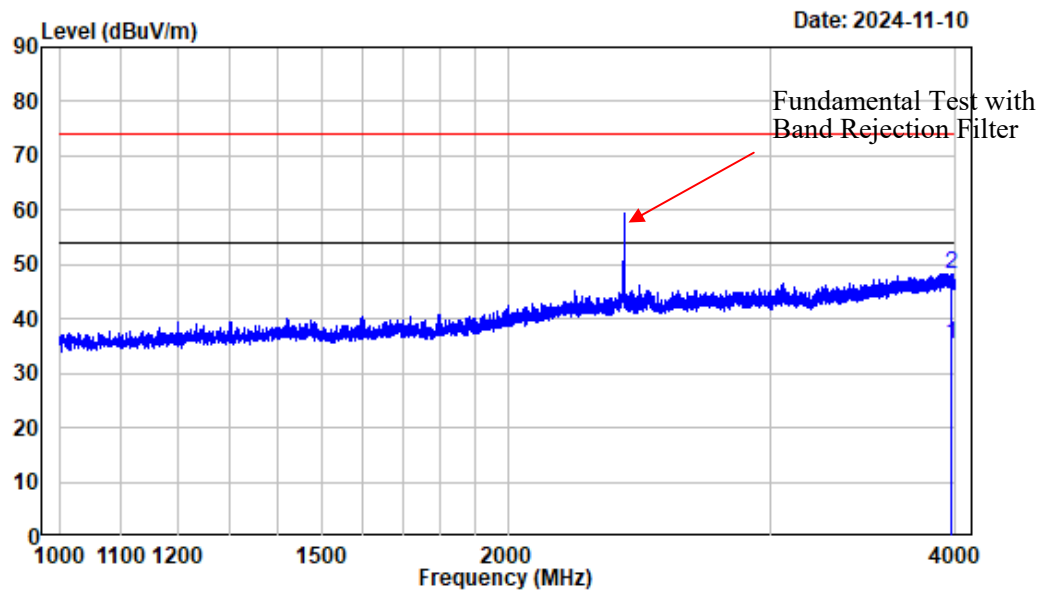
1-4GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|----------|--------|------------|--------|------------|------------|---------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 2212.527 | -3.23  | 40.71      | 37.48  | 54.00      | -16.52     | Average |
| 2 | 2212.527 | -3.23  | 66.31      | 63.08  | 74.00      | -10.92     | Peak    |
| 3 | 3625.328 | -1.59  | 35.48      | 33.89  | 54.00      | -20.11     | Average |
| 4 | 3625.328 | -1.59  | 50.89      | 49.30  | 74.00      | -24.70     | Peak    |

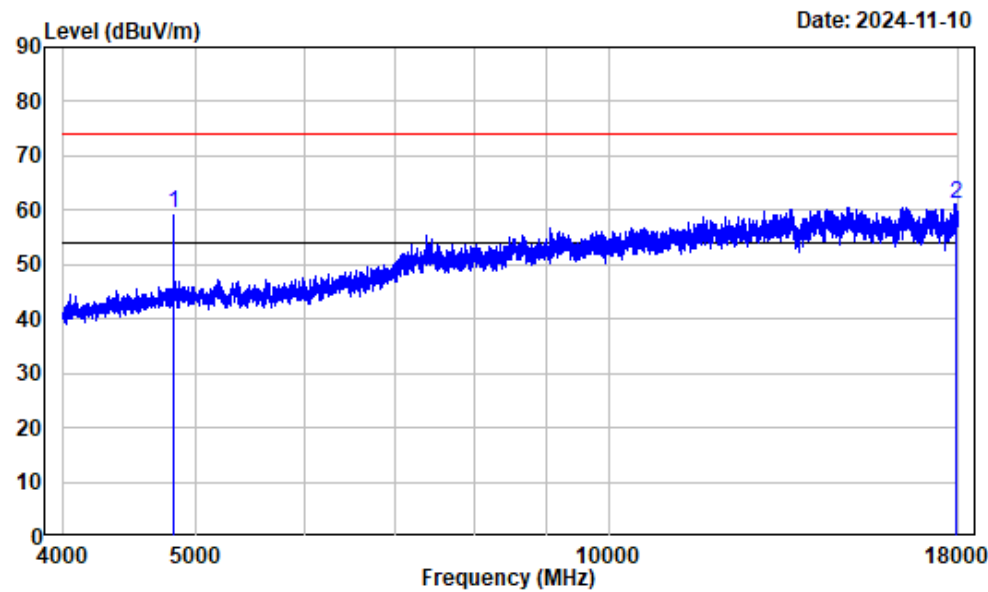
1-4GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|            |        | Read  |        | Limit  | Over   | Remark  |
|------------|--------|-------|--------|--------|--------|---------|
| Freq       | Factor | Level | Level  | Line   | Limit  |         |
| MHz        | dB/m   | dBuV  | dBuV/m | dBuV/m | dB     |         |
| 1 3972.247 | -0.18  | 35.51 | 35.33  | 54.00  | -18.67 | Average |
| 2 3972.247 | -0.18  | 48.56 | 48.38  | 74.00  | -25.62 | Peak    |

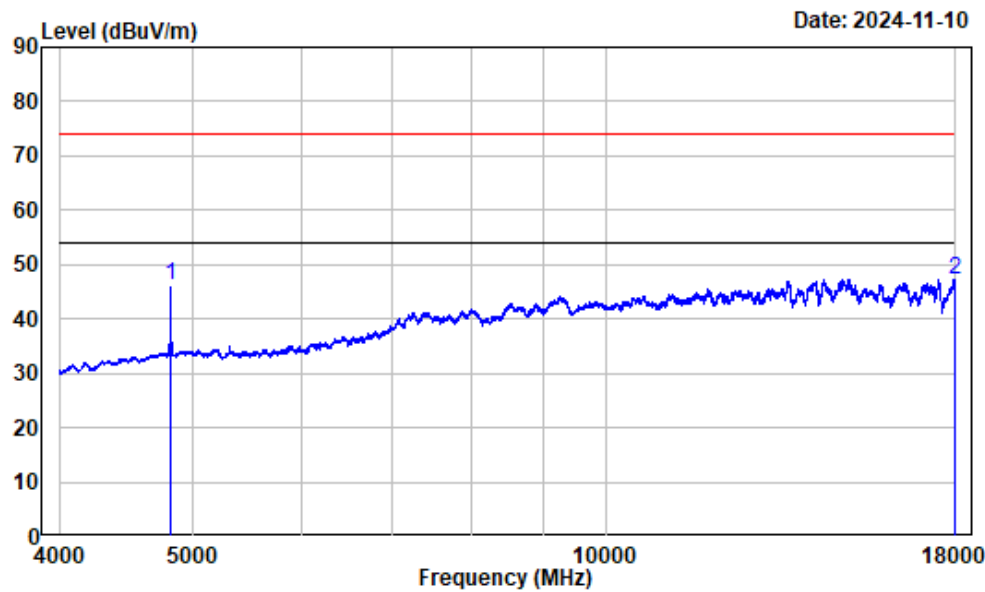
4-18GHz\_Horizontal\_Peak



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4824.000  | 2.45   | 56.97      | 59.42  | 74.00      | -14.58     | Peak   |
| 2 | 17935.240 | 24.16  | 36.93      | 61.09  | 74.00      | -12.91     | Peak   |

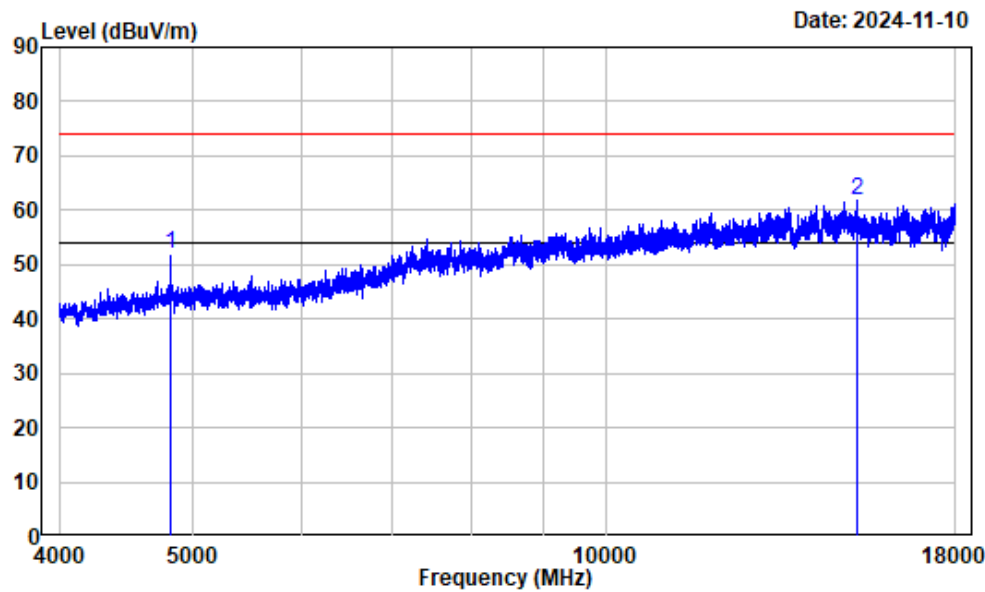
4-18GHz\_Horizontal\_Average



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4824.000  | 2.45   | 43.72         | 46.17  | 54.00         | -7.83         | Average |
| 2 | 17998.250 | 24.61  | 22.53         | 47.14  | 54.00         | -6.86         | Average |

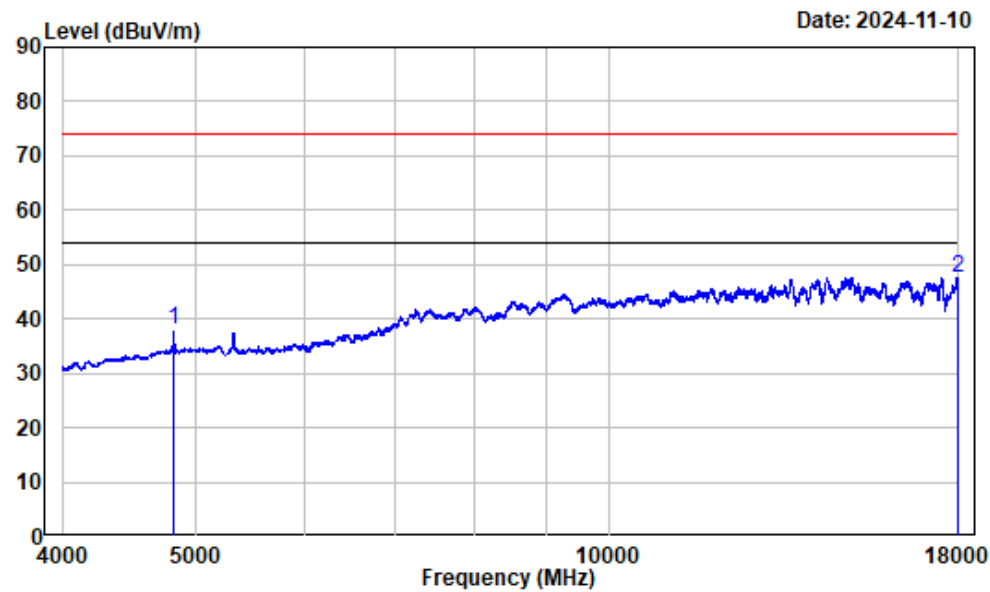
4-18GHz\_Vertical\_Peak



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4824.000  | 2.45   | 49.65      | 52.10  | 74.00      | -21.90     | Peak   |
| 2 | 15241.660 | 15.00  | 46.67      | 61.67  | 74.00      | -12.33     | Peak   |

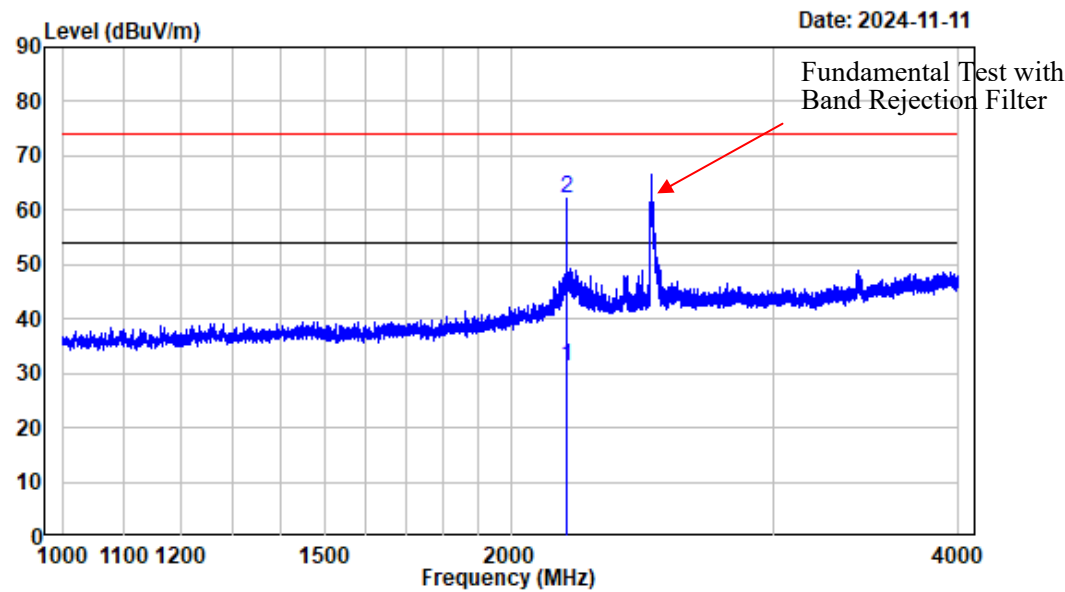
4-18GHz\_Vertical\_Average



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX20\_2412

|   | Freq      | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|-----------|--------|---------------|--------|---------------|---------------|---------|
|   | MHz       | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |         |
| 1 | 4824.000  | 2.45   | 35.72         | 38.17  | 54.00         | -15.83        | Average |
| 2 | 17998.250 | 24.61  | 23.03         | 47.64  | 54.00         | -6.36         | Average |

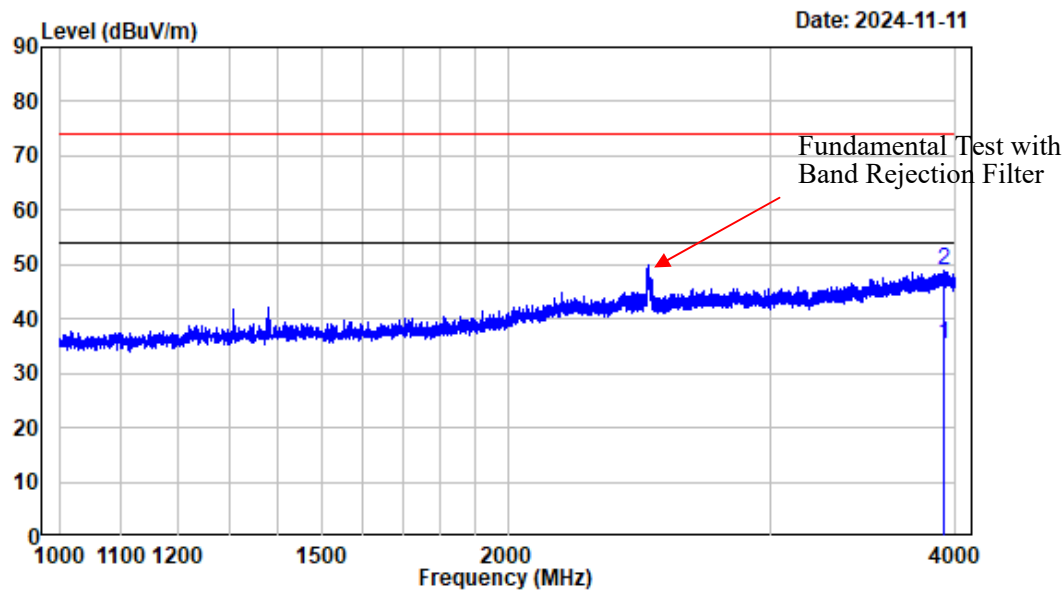
1-4GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|      |          | Read  |        | Limit  | Over  | Remark         |
|------|----------|-------|--------|--------|-------|----------------|
| Freq |          | Level | Level  | Line   | Limit |                |
| MHz  | dB/m     | dBuV  | dBuV/m | dBuV/m | dB    |                |
| 1    | 2180.647 | -3.48 | 34.59  | 31.11  | 54.00 | -22.89 Average |
| 2    | 2180.647 | -3.48 | 65.75  | 62.27  | 74.00 | -11.73 Peak    |

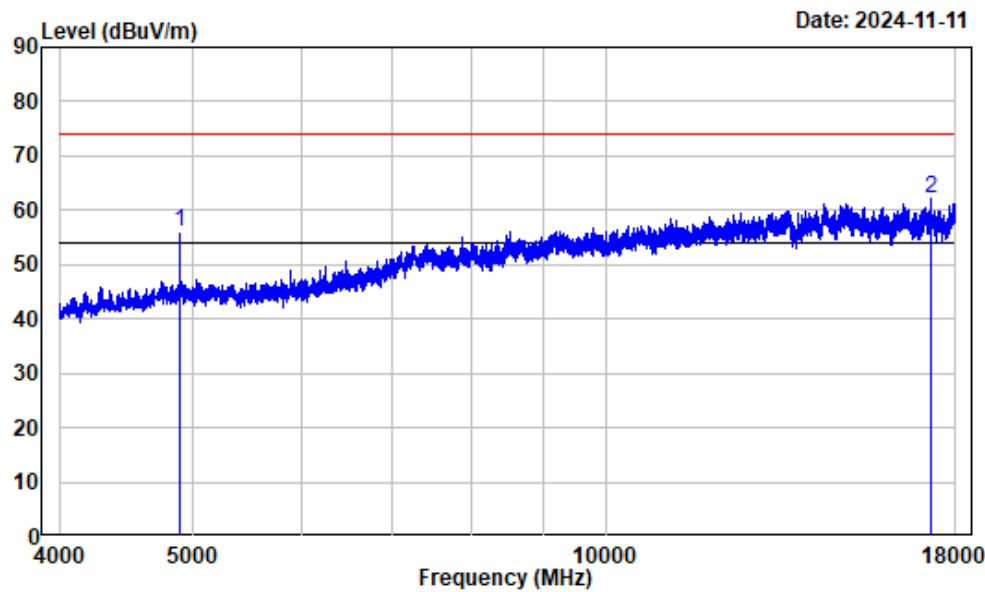
1-4GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|   | Freq     | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|----------|--------|------------|--------|------------|------------|---------|
|   | MHz      | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 3923.865 | -0.36  | 35.62      | 35.26  | 54.00      | -18.74     | Average |
| 2 | 3923.865 | -0.36  | 49.35      | 48.99  | 74.00      | -25.01     | Peak    |

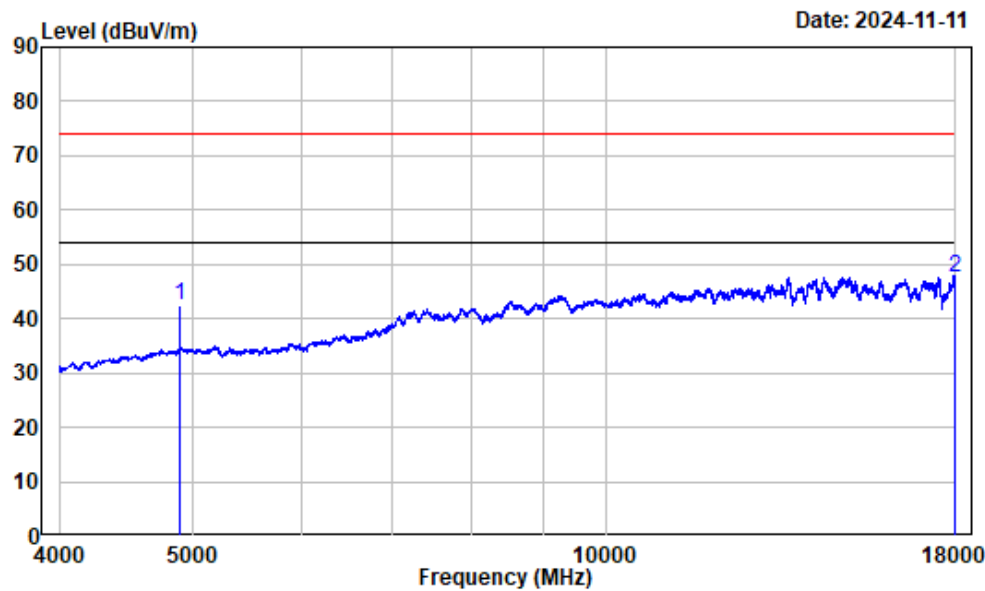
4-18GHz\_Horizontal\_Peak



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4904.000  | 2.64   | 53.46      | 56.10  | 74.00      | -17.90     | Peak   |
| 2 | 17282.410 | 19.21  | 42.89      | 62.10  | 74.00      | -11.90     | Peak   |

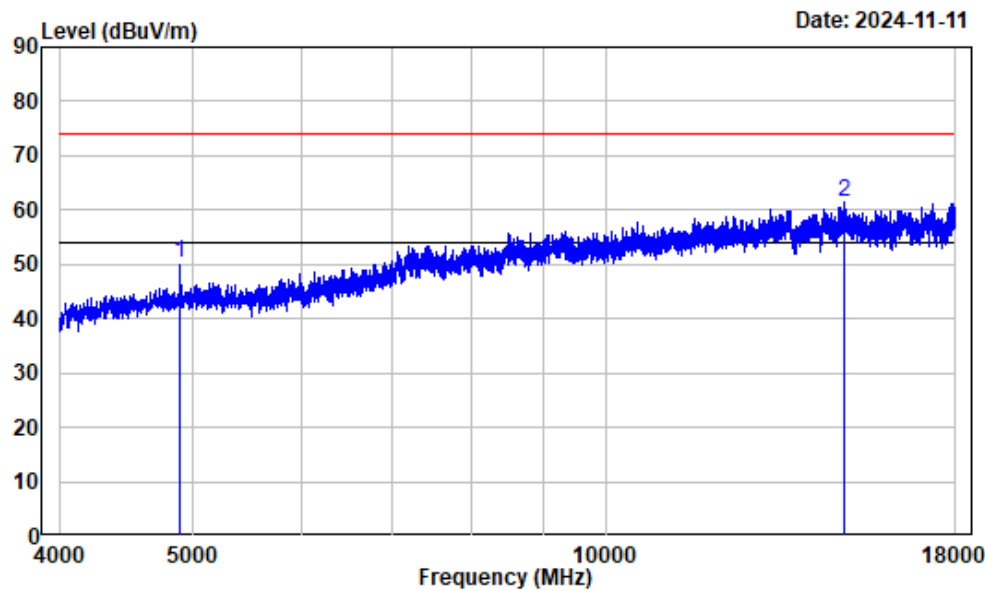
4-18GHz\_Horizontal\_Average



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4904.000  | 2.64   | 39.97      | 42.61  | 54.00      | -11.39     | Average |
| 2 | 17993.000 | 24.57  | 22.82      | 47.39  | 54.00      | -6.61      | Average |

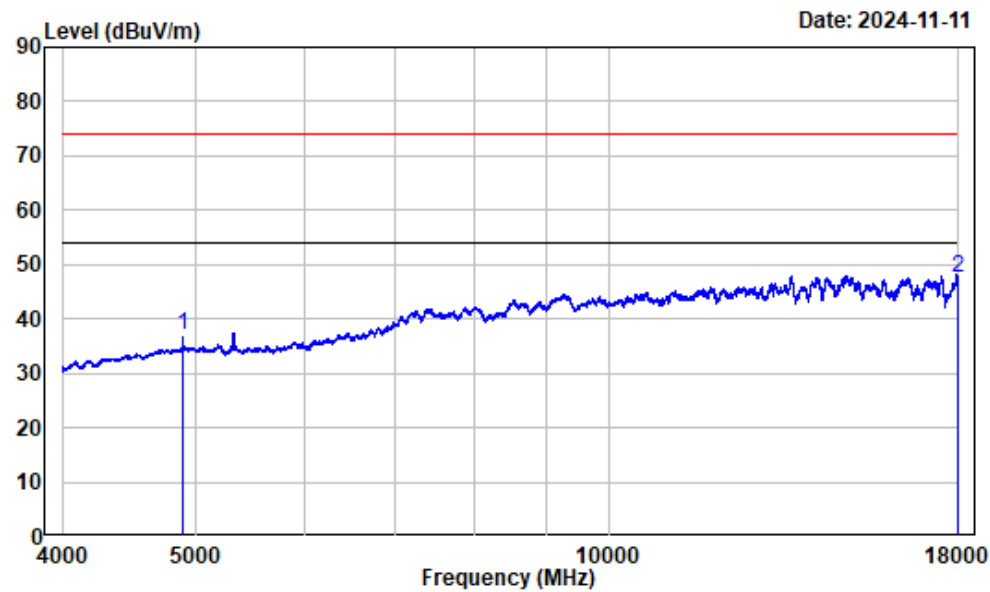
4-18GHz\_Vertical\_Peak



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-----------|--------|------------|--------|------------|------------|--------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 4904.000  | 2.64   | 47.62      | 50.26  | 74.00      | -23.74     | Peak   |
| 2 | 14947.620 | 16.45  | 44.93      | 61.38  | 74.00      | -12.62     | Peak   |

4-18GHz\_Vertical\_Average

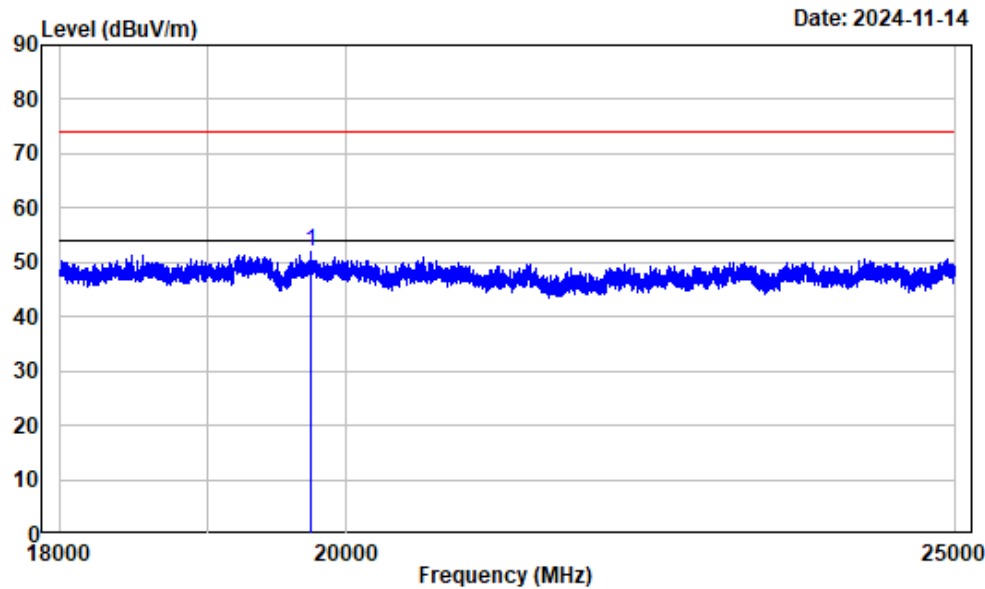


Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11AX40\_2452

|   | Freq      | Factor | Read Level | Level  | Limit Line | Over Limit | Remark  |
|---|-----------|--------|------------|--------|------------|------------|---------|
|   | MHz       | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4904.000  | 2.64   | 34.27      | 36.91  | 54.00      | -17.09     | Average |
| 2 | 18000.000 | 24.62  | 22.88      | 47.50  | 54.00      | -6.50      | Average |

18-25GHz Worst case emission plots:

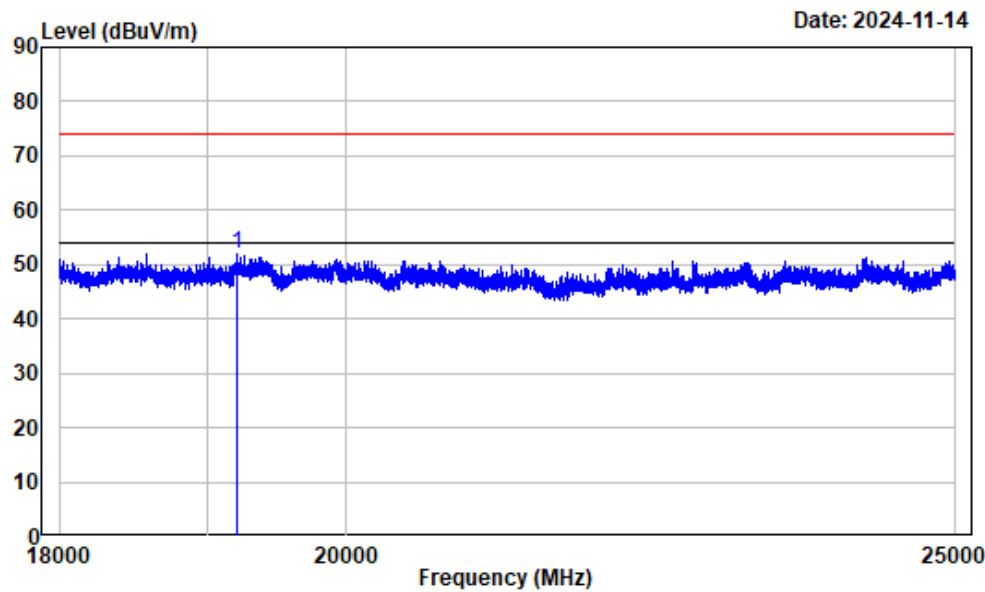
18-25GHz\_Horizontal



Condition : Horizontal  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

| Freq |           | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|-----------|--------|------------|--------|------------|------------|--------|
| MHz  |           | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 19737.090 | 15.39  | 36.73      | 52.12  | 74.00      | -21.88     | Peak   |

18-25GHz\_Vertical



Condition : Vertical  
Project No.: 2401Y98612E-RF  
Tester : Dylan.Yang  
Note : 802.11B\_2462

| Freq |           | Factor | Read Level | Level  | Limit Line | Over Limit | Remark |
|------|-----------|--------|------------|--------|------------|------------|--------|
| MHz  |           | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1    | 19216.400 | 15.30  | 36.61      | 51.91  | 74.00      | -22.09     | Peak   |

6dB Emission Bandwidth

Test Information:

|             |          |              |                       |
|-------------|----------|--------------|-----------------------|
| Sample No.: | 2SLQ-7   | Test Date:   | 2024/11/14~2024/12/10 |
| Test Site:  | RF       | Test Mode:   | Transmitting          |
| Tester:     | Brian Li | Test Result: | Pass                  |

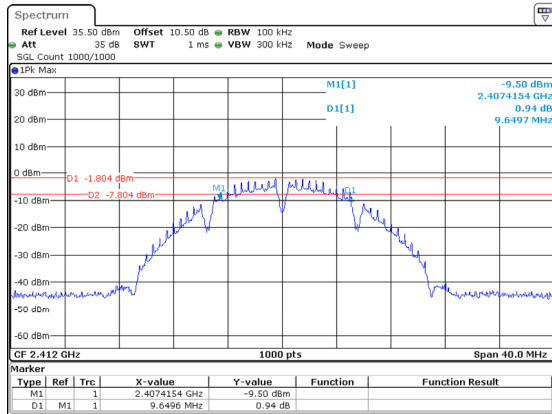
Environmental Conditions:

|                       |       |                              |       |                        |     |
|-----------------------|-------|------------------------------|-------|------------------------|-----|
| Temperature:<br>(°C): | 25-26 | Relative<br>Humidity:<br>(%) | 45-47 | ATM Pressure:<br>(kPa) | 101 |
|-----------------------|-------|------------------------------|-------|------------------------|-----|

Test Data:

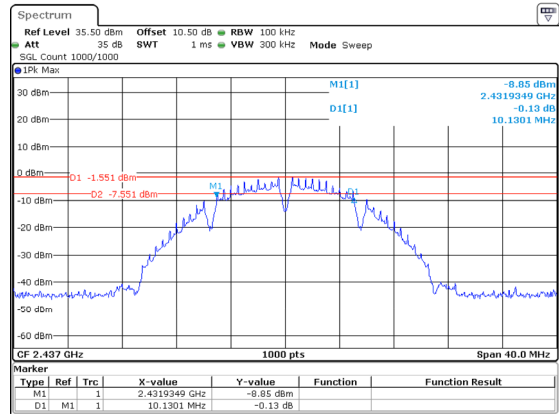
| Mode       | Test Frequency<br>(MHz) | Result<br>(MHz) | Limit<br>(MHz) | Verdict |
|------------|-------------------------|-----------------|----------------|---------|
| 802.11b    | 2412                    | 9.650           | ≥0.5           | Pass    |
|            | 2437                    | 10.130          | ≥0.5           | Pass    |
|            | 2462                    | 10.130          | ≥0.5           | Pass    |
| 802.11g    | 2412                    | 15.495          | ≥0.5           | Pass    |
|            | 2437                    | 15.175          | ≥0.5           | Pass    |
|            | 2462                    | 15.736          | ≥0.5           | Pass    |
| 802.11n20  | 2412                    | 17.658          | ≥0.5           | Pass    |
|            | 2437                    | 16.336          | ≥0.5           | Pass    |
|            | 2462                    | 16.977          | ≥0.5           | Pass    |
| 802.11n40  | 2422                    | 34.194          | ≥0.5           | Pass    |
|            | 2437                    | 34.835          | ≥0.5           | Pass    |
|            | 2452                    | 36.436          | ≥0.5           | Pass    |
| 802.11ax20 | 2412                    | 18.418          | ≥0.5           | Pass    |
|            | 2437                    | 16.737          | ≥0.5           | Pass    |
|            | 2462                    | 17.738          | ≥0.5           | Pass    |
| 802.11ax40 | 2422                    | 35.956          | ≥0.5           | Pass    |
|            | 2437                    | 37.477          | ≥0.5           | Pass    |
|            | 2452                    | 35.956          | ≥0.5           | Pass    |

### 802.11b\_2412MHz 9.650MHz



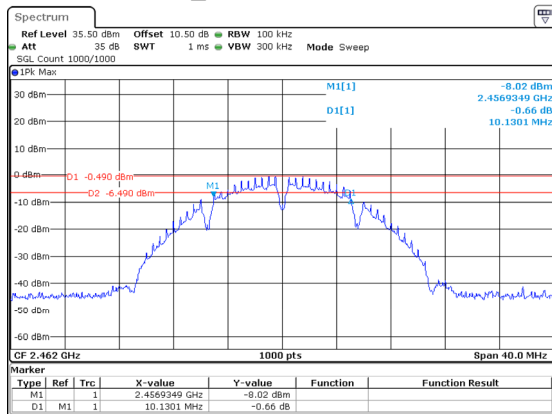
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:53:31

### 802.11b\_2437MHz 10.130MHz



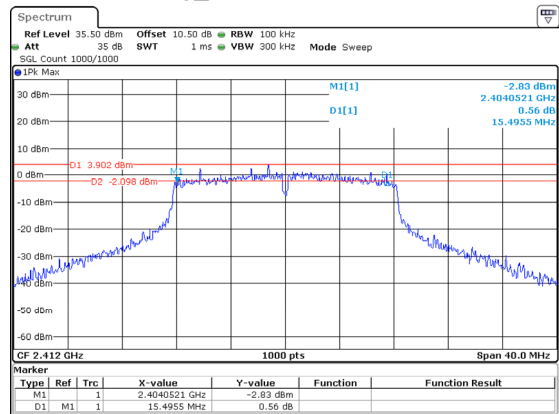
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:45:01

### 802.11b\_2462MHz 10.130MHz



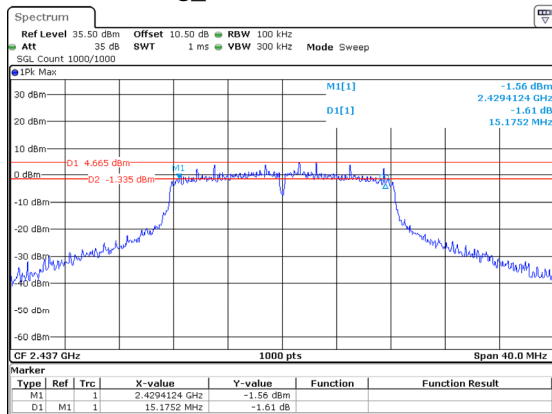
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:48:34

### 802.11g\_2412MHz 15.495MHz



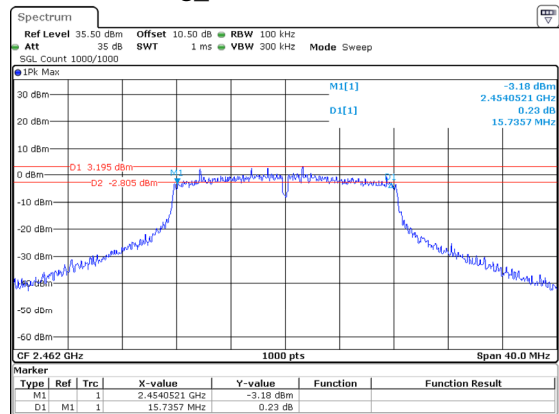
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:01:09

### 802.11g\_2437MHz 15.175MHz



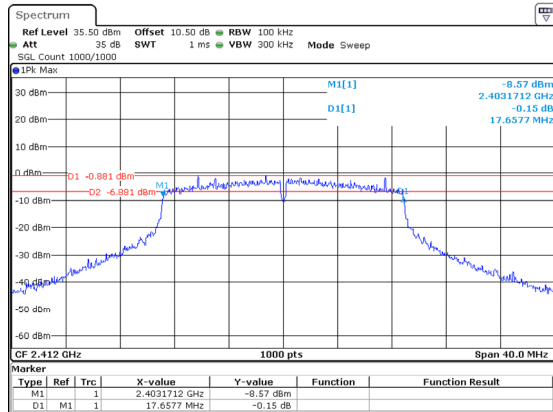
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:08:15

### 802.11g\_2462MHz 15.736MHz



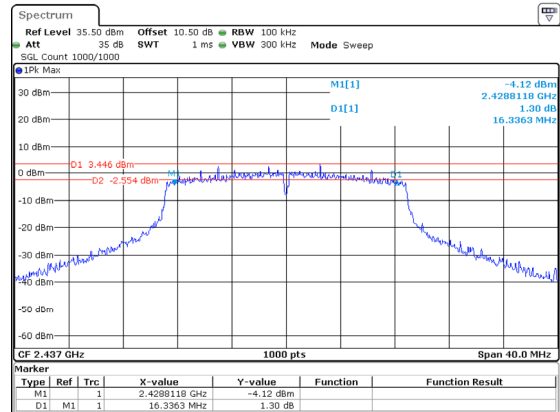
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:12:06

802.11n20\_2412MHz 17.658MHz



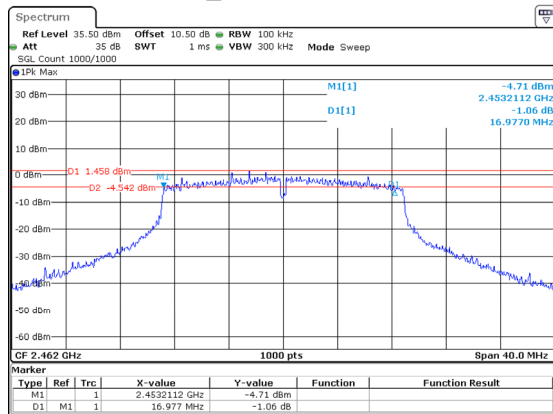
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:25:23

802.11n20\_2437MHz 16.336MHz



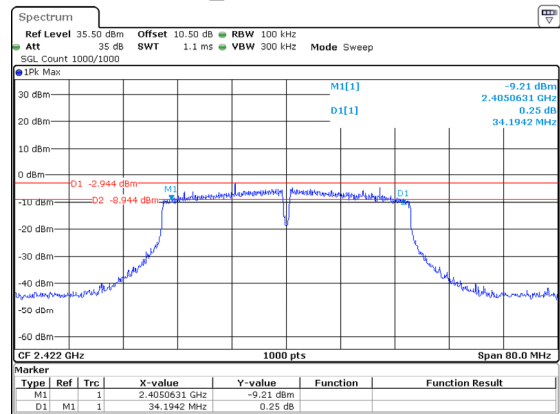
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:31:14

802.11n20\_2462MHz 16.977MHz



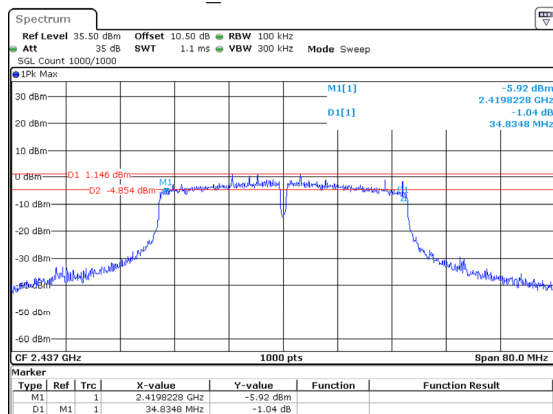
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:35:04

802.11n40\_2422MHz 34.194MHz



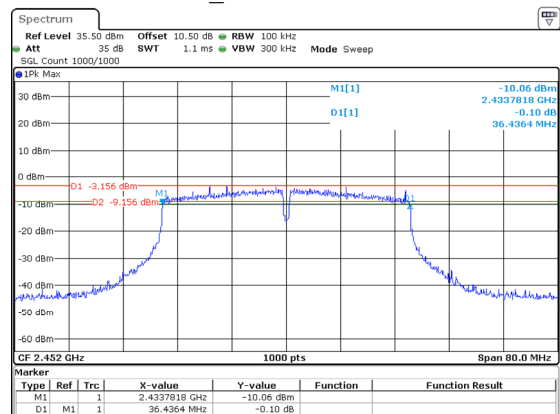
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 00:44:51

802.11n40\_2437MHz 34.835MHz



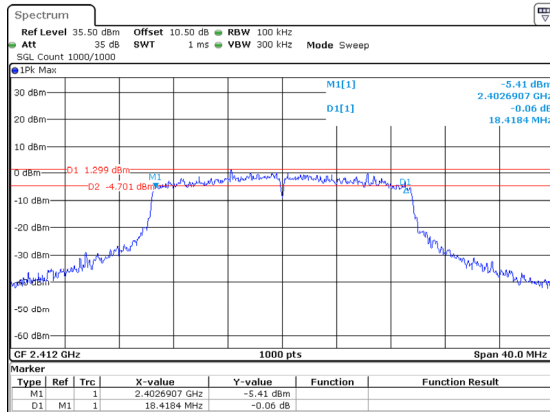
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 10.DEC.2024 20:06:47

802.11n40\_2452MHz 36.436MHz



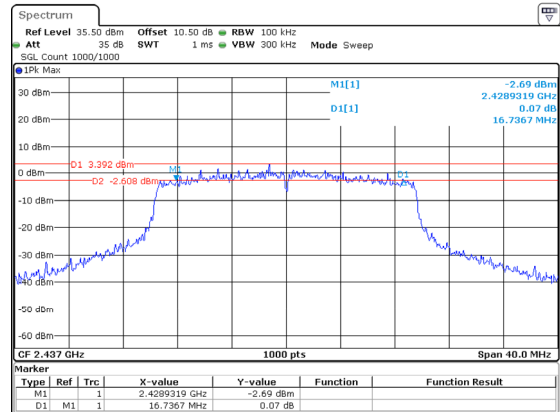
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 01:01:19

### 802.11ax20\_2412MHz\_RU\_Full 18.418MHz



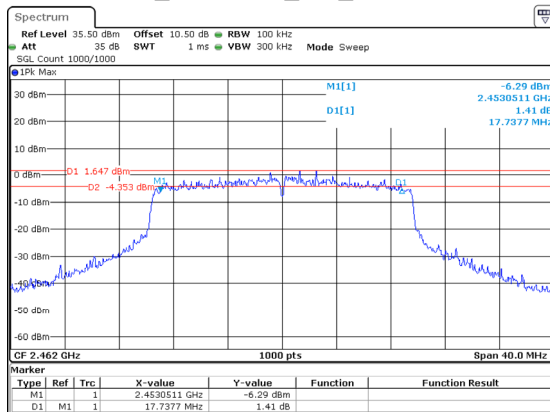
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 22:54:40

### 802.11ax20\_2437MHz\_RU\_Full 16.737MHz



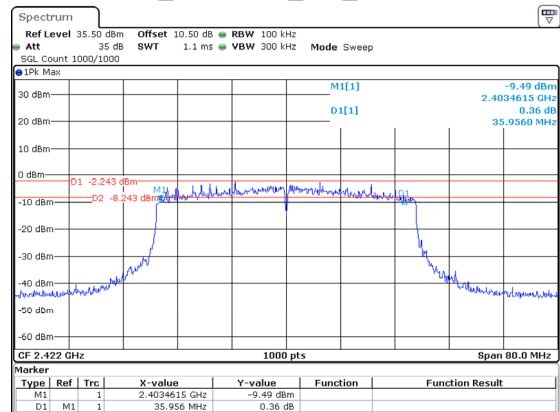
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 22:57:57

### 802.11ax20\_2462MHz\_RU\_Full 17.738MHz



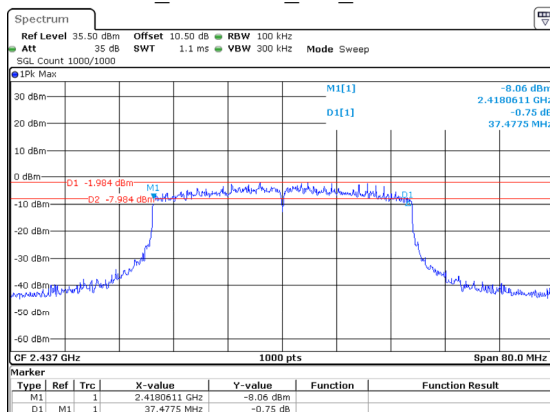
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 23:08:10

### 802.11ax40\_2422MHz\_RU\_Full 35.956MHz



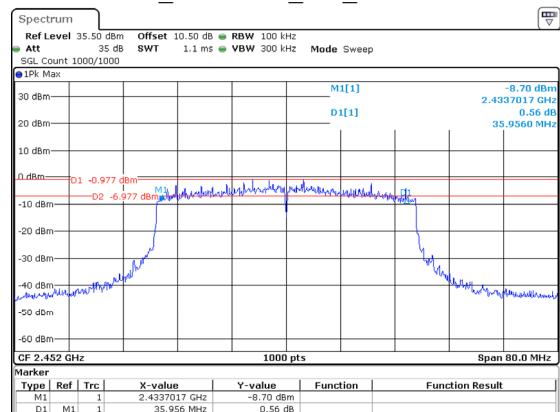
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 23:12:40

### 802.11ax40\_2437MHz\_RU\_Full 37.477MHz



ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 23:17:48

### 802.11ax40\_2452MHz\_RU\_Full 35.956MHz



ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 23:22:27

Maximum Conducted Output Power

Test Information:

|             |          |              |                       |
|-------------|----------|--------------|-----------------------|
| Sample No.: | 2SLQ-7   | Test Date:   | 2024/11/14~2024/11/15 |
| Test Site:  | RF       | Test Mode:   | Transmitting          |
| Tester:     | Brian Li | Test Result: | Pass                  |

Environmental Conditions:

|                       |       |                              |       |                        |     |
|-----------------------|-------|------------------------------|-------|------------------------|-----|
| Temperature:<br>(°C): | 25-26 | Relative<br>Humidity:<br>(%) | 45-47 | ATM Pressure:<br>(kPa) | 101 |
|-----------------------|-------|------------------------------|-------|------------------------|-----|

Test Data:

| Mode       | Test Frequency<br>(MHz) | Peak Output<br>Power(dBm) | Average<br>Output<br>Power(dBm) | Limit<br>(dBm) | Verdict |
|------------|-------------------------|---------------------------|---------------------------------|----------------|---------|
| 802.11b    | 2412                    | 10.16                     | 7.22                            | 30             | Pass    |
|            | 2437                    | 10.36                     | 7.70                            | 30             | Pass    |
|            | 2462                    | 11.39                     | 8.43                            | 30             | Pass    |
| 802.11g    | 2412                    | 20.94                     | 13.90                           | 30             | Pass    |
|            | 2437                    | 21.53                     | 12.76                           | 30             | Pass    |
|            | 2462                    | 20.25                     | 14.40                           | 30             | Pass    |
| 802.11n20  | 2412                    | 20.16                     | 13.63                           | 30             | Pass    |
|            | 2437                    | 20.96                     | 13.97                           | 30             | Pass    |
|            | 2462                    | 19.86                     | 13.48                           | 30             | Pass    |
| 802.11n40  | 2422                    | 18.17                     | 11.24                           | 30             | Pass    |
|            | 2437                    | 19.18                     | 12.71                           | 30             | Pass    |
|            | 2452                    | 18.91                     | 12.35                           | 30             | Pass    |
| 802.11ax20 | 2412                    | 20.53                     | 13.50                           | 30             | Pass    |
|            | 2437                    | 21.44                     | 14.38                           | 30             | Pass    |
|            | 2462                    | 19.97                     | 12.91                           | 30             | Pass    |
| 802.11ax40 | 2422                    | 19.57                     | 12.35                           | 30             | Pass    |
|            | 2437                    | 20.37                     | 13.34                           | 30             | Pass    |
|            | 2452                    | 20.08                     | 13.35                           | 30             | Pass    |

Power Spectral Density

Test Information:

|             |          |              |                       |
|-------------|----------|--------------|-----------------------|
| Sample No.: | 2SLQ-7   | Test Date:   | 2024/11/14~2024/11/15 |
| Test Site:  | RF       | Test Mode:   | Transmitting          |
| Tester:     | Brian Li | Test Result: | Pass                  |

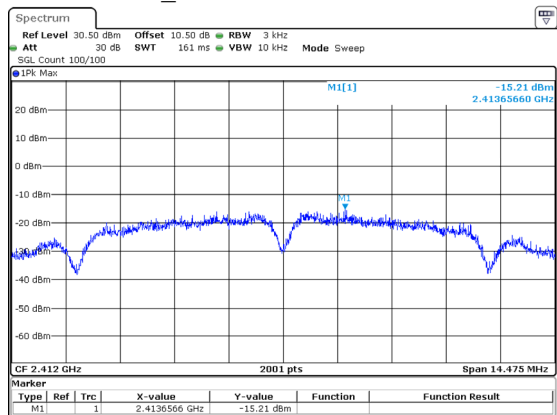
Environmental Conditions:

|                       |       |                              |       |                        |     |
|-----------------------|-------|------------------------------|-------|------------------------|-----|
| Temperature:<br>(°C): | 25-26 | Relative<br>Humidity:<br>(%) | 45-47 | ATM Pressure:<br>(kPa) | 101 |
|-----------------------|-------|------------------------------|-------|------------------------|-----|

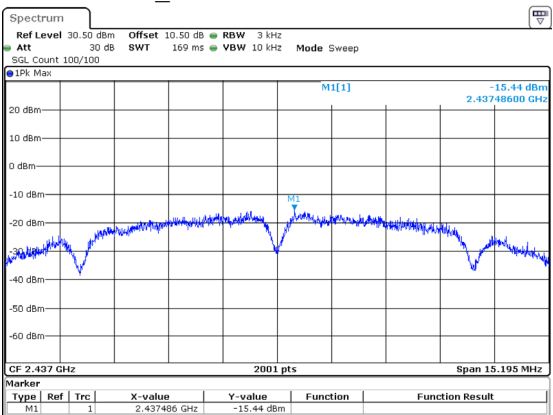
Test Data:

| Mode       | Test Frequency<br>(MHz) | Result<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|------------|-------------------------|----------------------|---------------------|---------|
| 802.11b    | 2412                    | -15.21               | 8                   | Pass    |
|            | 2437                    | -15.44               | 8                   | Pass    |
|            | 2462                    | -14.90               | 8                   | Pass    |
| 802.11g    | 2412                    | -9.97                | 8                   | Pass    |
|            | 2437                    | -8.90                | 8                   | Pass    |
|            | 2462                    | -10.78               | 8                   | Pass    |
| 802.11n20  | 2412                    | -13.30               | 8                   | Pass    |
|            | 2437                    | -9.11                | 8                   | Pass    |
|            | 2462                    | -10.99               | 8                   | Pass    |
| 802.11n40  | 2422                    | -15.66               | 8                   | Pass    |
|            | 2437                    | -12.51               | 8                   | Pass    |
|            | 2452                    | -14.47               | 8                   | Pass    |
| 802.11ax20 | 2412                    | -12.53               | 8                   | Pass    |
|            | 2437                    | -10.68               | 8                   | Pass    |
|            | 2462                    | -12.18               | 8                   | Pass    |
| 802.11ax40 | 2422                    | -16.05               | 8                   | Pass    |
|            | 2437                    | -15.28               | 8                   | Pass    |
|            | 2452                    | -14.81               | 8                   | Pass    |

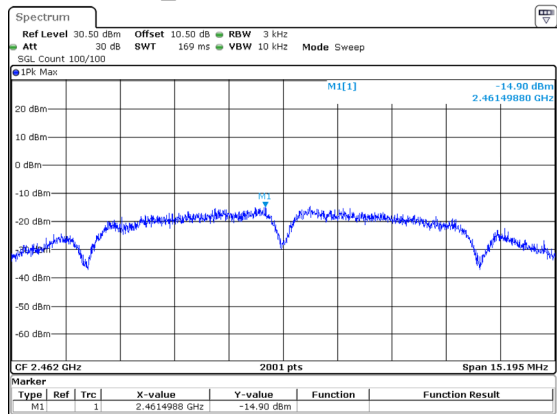
802.11b\_2412MHz -15.21dBm/3kHz



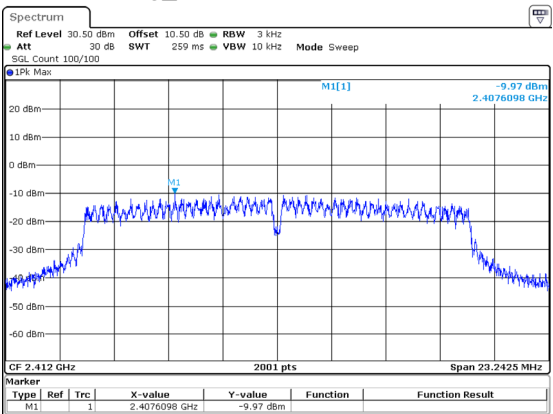
802.11b\_2437MHz -15.44dBm/3kHz



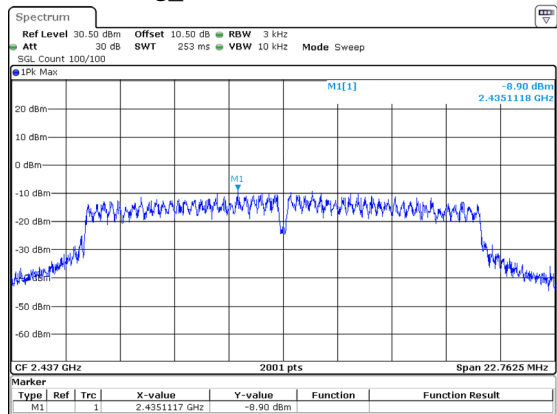
802.11b\_2462MHz -14.90dBm/3kHz



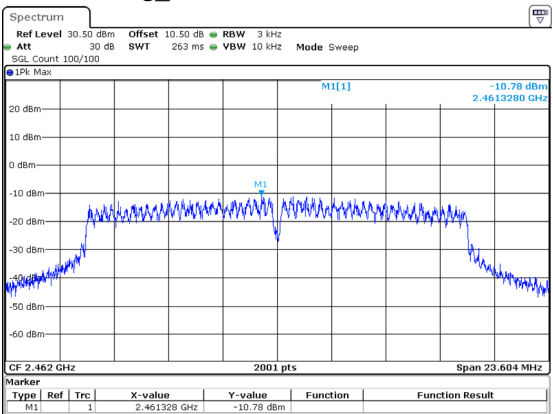
802.11g\_2412MHz -9.97dBm/3kHz



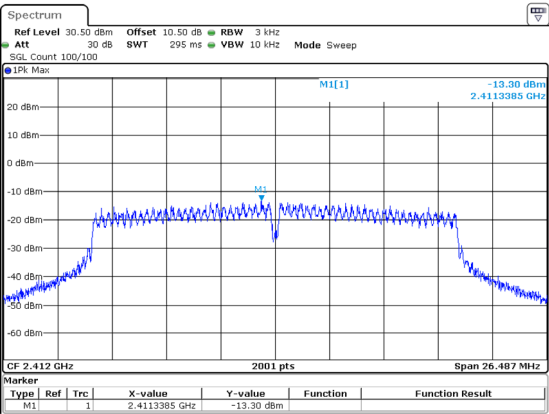
802.11g\_2437MHz -8.90dBm/3kHz



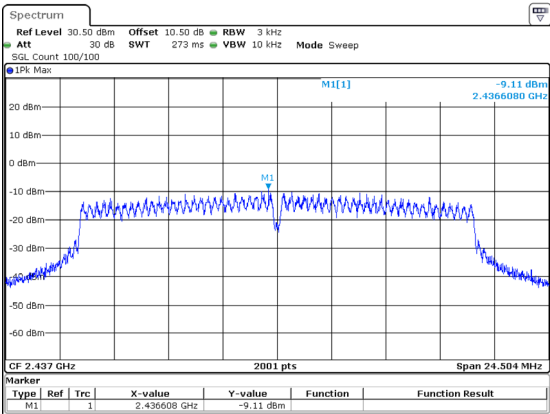
802.11g\_2462MHz -10.78dBm/3kHz



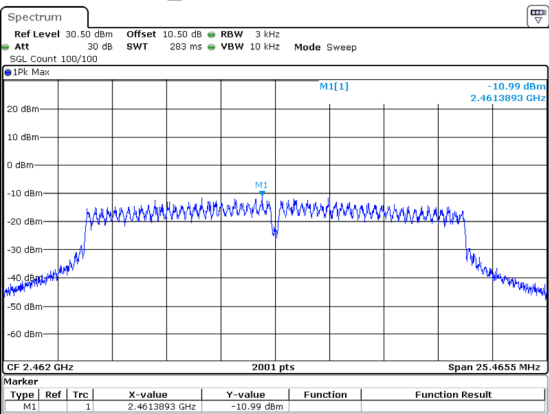
802.11n20\_2412MHz -13.30dBm/3kHz



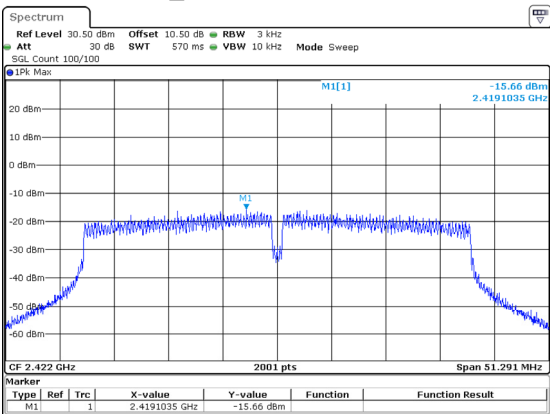
802.11n20\_2437MHz -9.11dBm/3kHz



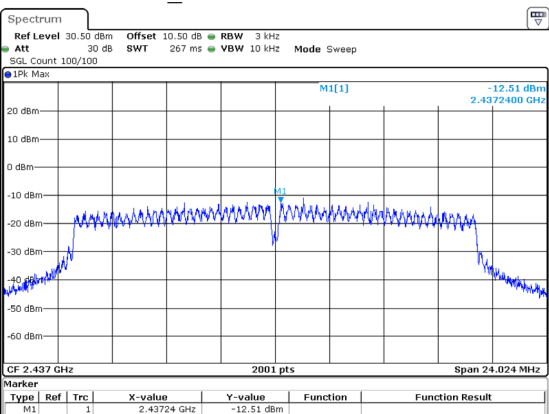
802.11n20\_2462MHz -10.99dBm/3kHz



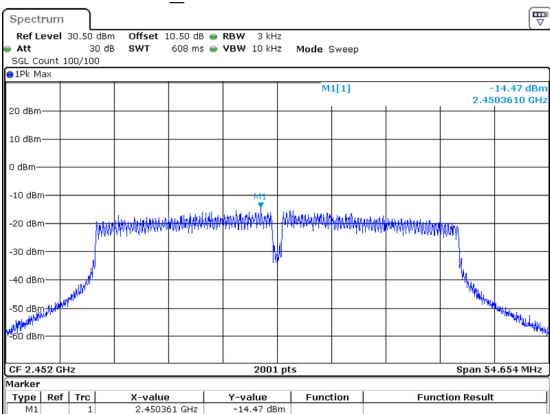
802.11n40\_2422MHz -15.66dBm/3kHz



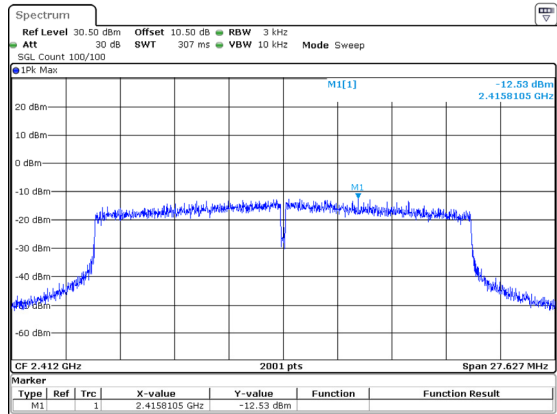
802.11n40\_2437MHz -12.51dBm/3kHz



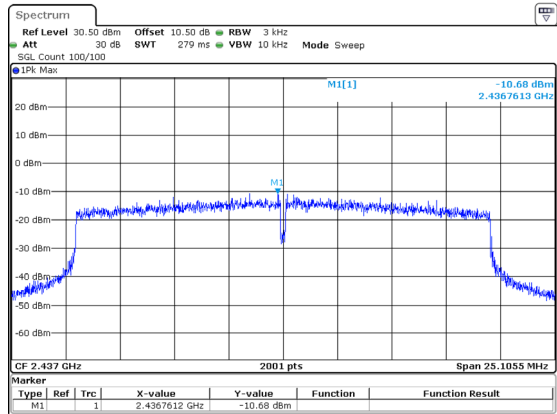
802.11n40\_2452MHz -14.47dBm/3kHz



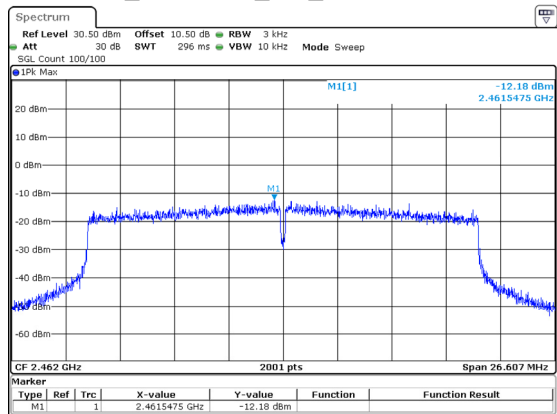
802.11ax20\_2412MHz\_RU\_Full -12.53dBm/3kHz



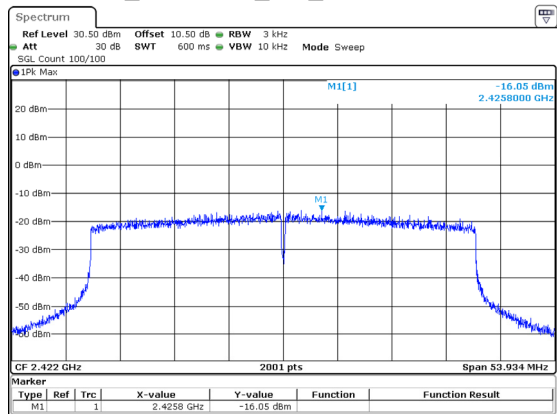
802.11ax20\_2437MHz\_RU\_Full -10.68dBm/3kHz



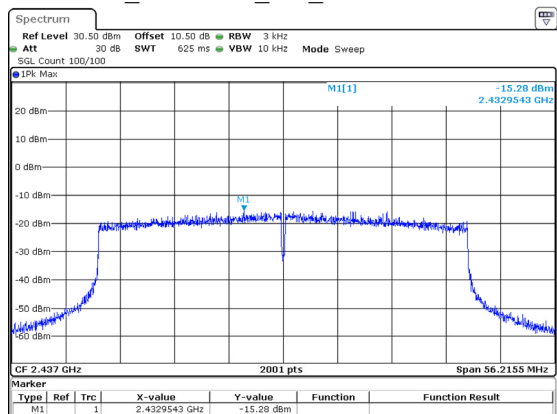
802.11ax20\_2462MHz\_RU\_Full -12.18dBm/3kHz



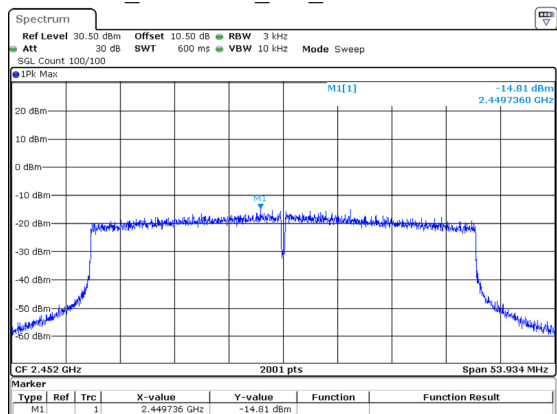
802.11ax40\_2422MHz\_RU\_Full -16.05dBm/3kHz



802.11ax40\_2437MHz\_RU\_Full -15.28dBm/3kHz



802.11ax40\_2452MHz\_RU\_Full -14.81dBm/3kHz



100 kHz Bandwidth of Frequency Band Edge

Test Information:

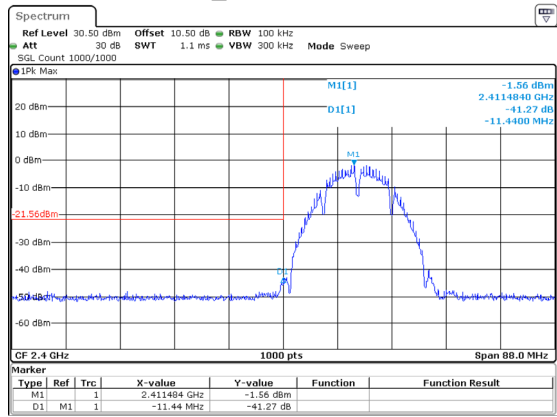
|             |          |              |                       |
|-------------|----------|--------------|-----------------------|
| Sample No.: | 2SLQ-7   | Test Date:   | 2024/11/14~2024/11/15 |
| Test Site:  | RF       | Test Mode:   | Transmitting          |
| Tester:     | Brian Li | Test Result: | Pass                  |

Environmental Conditions:

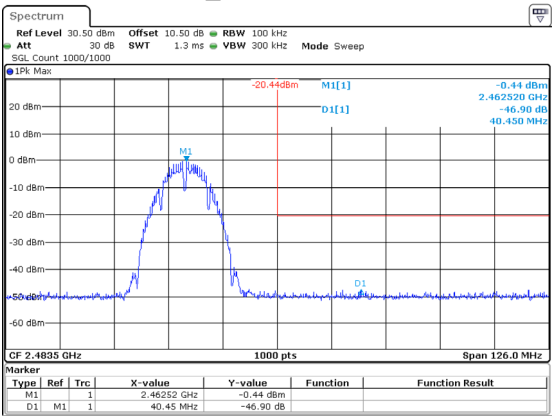
|                       |       |                              |       |                        |     |
|-----------------------|-------|------------------------------|-------|------------------------|-----|
| Temperature:<br>(°C): | 25-26 | Relative<br>Humidity:<br>(%) | 45-47 | ATM Pressure:<br>(kPa) | 101 |
|-----------------------|-------|------------------------------|-------|------------------------|-----|

Test Data:

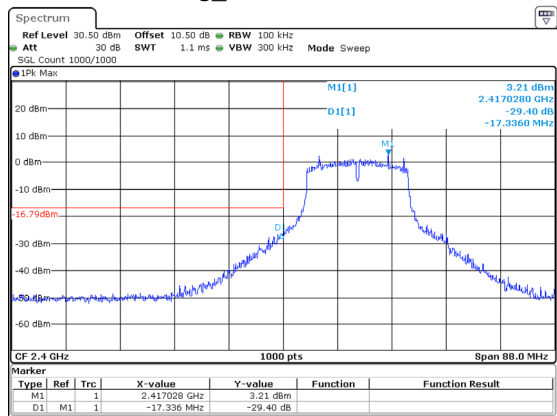
802.11b\_2412MHz 41.27dB



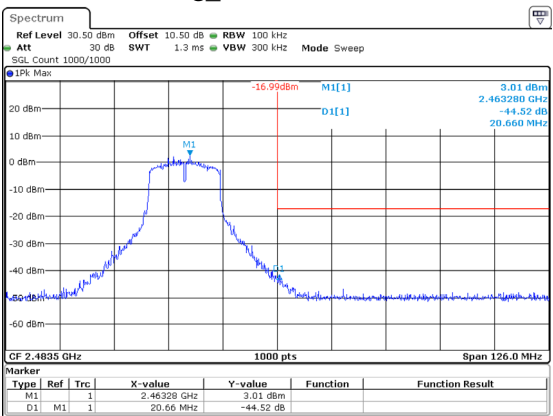
802.11b\_2462MHz 46.90dB



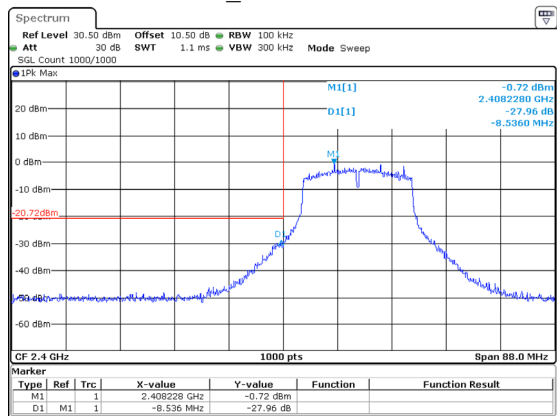
802.11g\_2412MHz 29.40dB



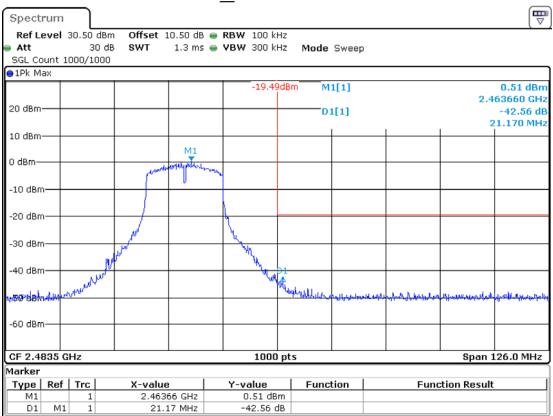
802.11g\_2462MHz 44.52dB



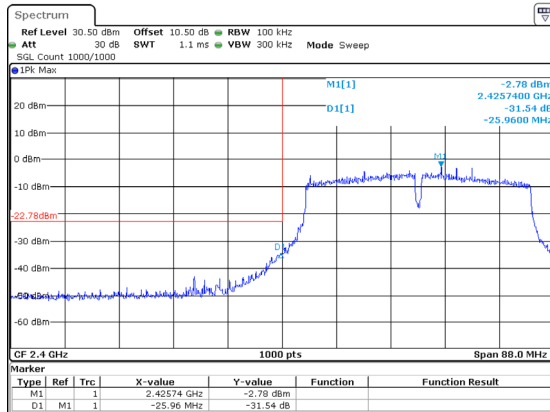
802.11n20\_2412MHz 27.96dB



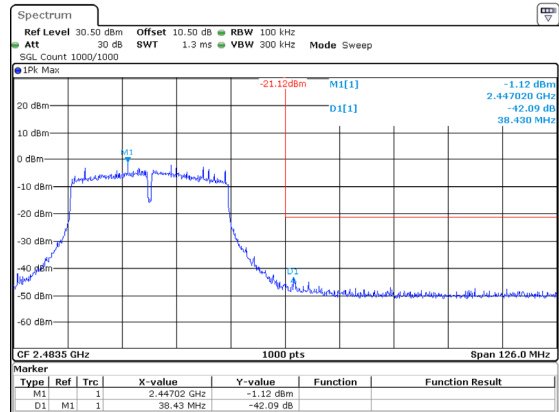
802.11n20\_2462MHz 42.56dB



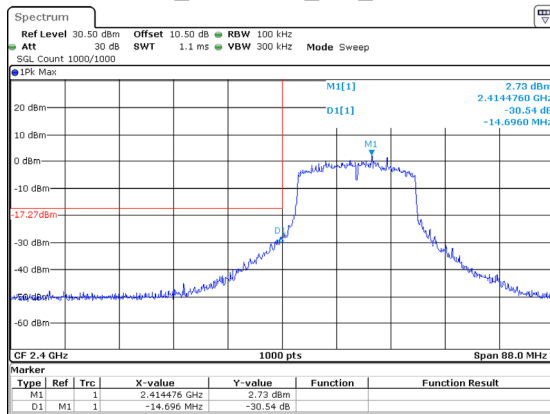
802.11n40\_2422MHz 31.54dB



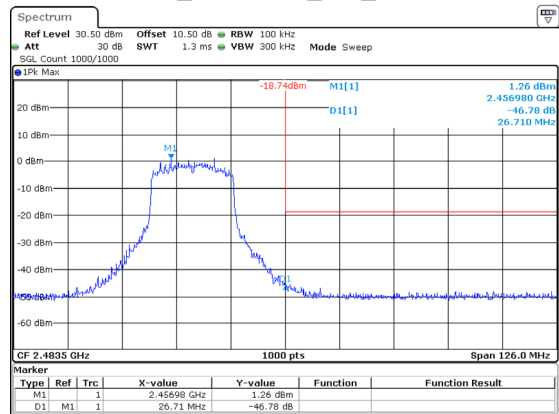
802.11n40\_2452MHz 42.09dB



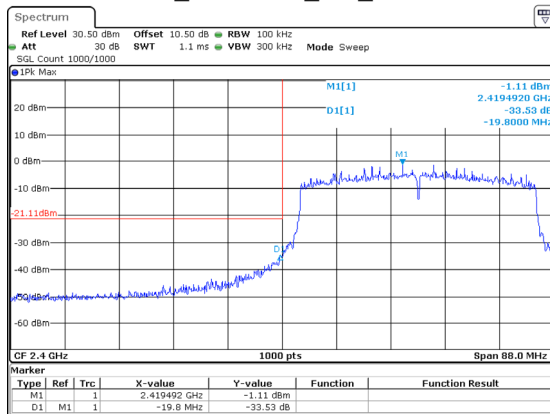
802.11ax20\_2412MHz\_RU\_Full 30.54dB



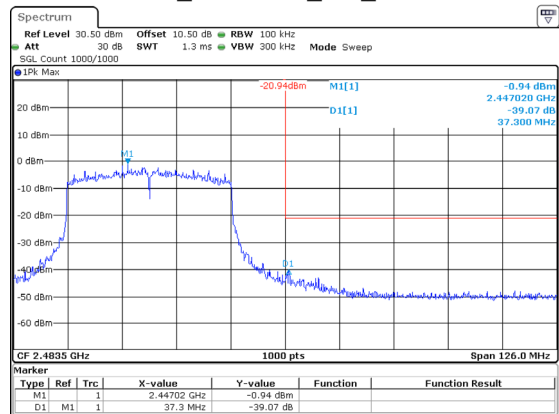
802.11ax20\_2462MHz\_RU\_Full 46.78dB



802.11ax40\_2422MHz\_RU\_Full 33.53dB



802.11ax40\_2452MHz\_RU\_Full 39.07dB



**Duty Cycle**

**Test Information:**

|                    |          |                     |                       |
|--------------------|----------|---------------------|-----------------------|
| <b>Sample No.:</b> | 2SLQ-7   | <b>Test Date:</b>   | 2024/11/14~2024/11/15 |
| <b>Test Site:</b>  | RF       | <b>Test Mode:</b>   | Transmitting          |
| <b>Tester:</b>     | Brian Li | <b>Test Result:</b> | N/A                   |

**Environmental Conditions:**

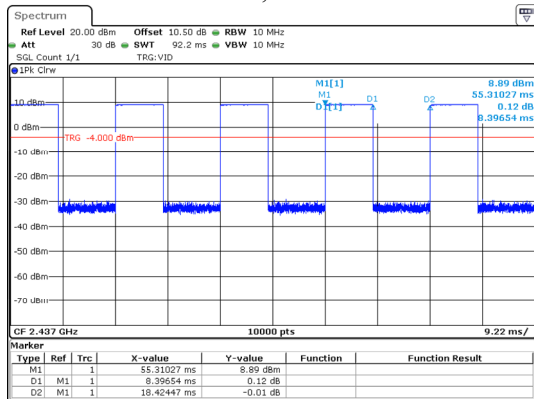
|                              |       |                                  |       |                               |     |
|------------------------------|-------|----------------------------------|-------|-------------------------------|-----|
| <b>Temperature:</b><br>(°C): | 25-26 | <b>Relative Humidity:</b><br>(%) | 45-47 | <b>ATM Pressure:</b><br>(kPa) | 101 |
|------------------------------|-------|----------------------------------|-------|-------------------------------|-----|

**Test Data:**

| Mode       | Test Frequency (MHz) | Ton (ms) | Ton+Toff (ms) | Duty Cycle (%) | Duty Cycle Factor(dB) | 1/Ton (Hz) | VBW Setting (kHz) |
|------------|----------------------|----------|---------------|----------------|-----------------------|------------|-------------------|
| 802.11b    | 2437                 | 8.397    | 18.424        | 45.58          | 3.41                  | 119        | 0.300             |
| 802.11g    | 2437                 | 1.394    | 11.434        | 12.19          | 9.14                  | 717        | 1.000             |
| 802.11n20  | 2437                 | 5.070    | 15.105        | 33.57          | 4.74                  | 197        | 0.300             |
| 802.11n40  | 2437                 | 4.877    | 14.913        | 32.70          | 4.85                  | 205        | 0.300             |
| 802.11ax20 | 2437                 | 3.873    | 13.891        | 27.88          | 5.55                  | 258        | 0.300             |
| 802.11ax40 | 2437                 | 3.869    | 13.886        | 27.86          | 5.55                  | 258        | 0.300             |

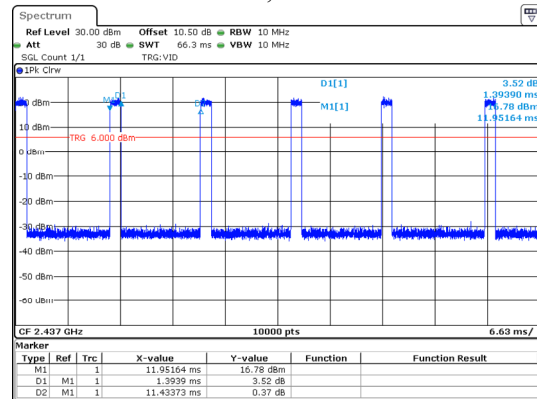
**Duty Cycle = Ton/(Ton+Toff)\*100%**

802.11b\_2437MHz  
8.397ms,18.424ms



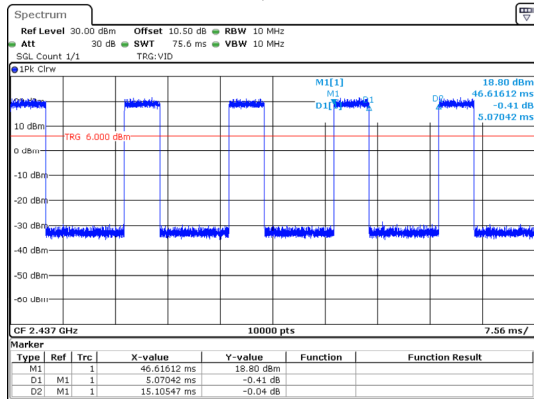
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:30:16

802.11g\_2437MHz  
1.394ms,11.434ms



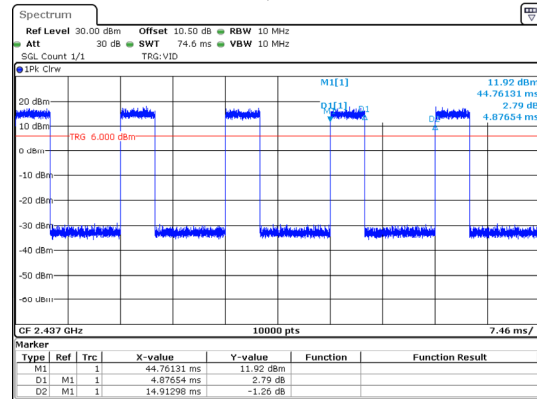
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:32:11

802.11n20\_2437MHz  
5.070ms,15.105ms



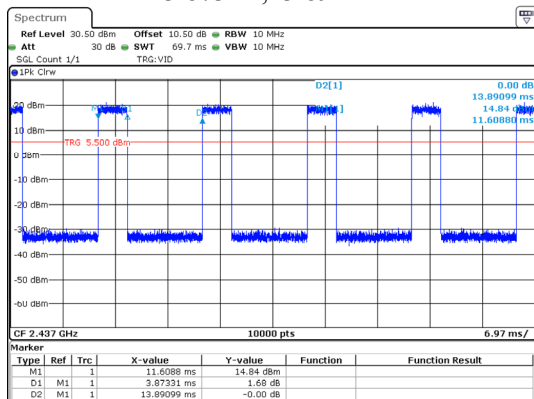
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:32:53

802.11n40\_2437MHz  
4.877ms,14.913ms



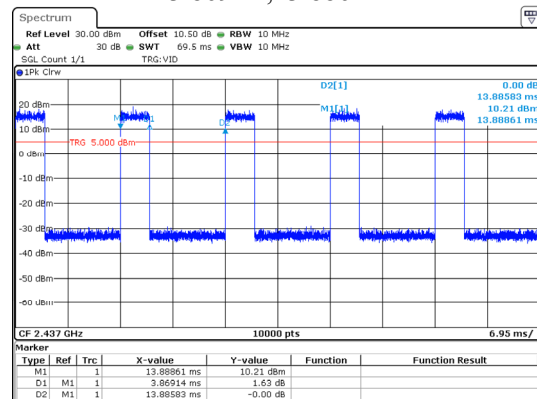
ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 14.NOV.2024 23:33:56

802.11ax20\_2437MHz RU\_Full  
3.873ms,13.891ms



ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 22:51:16

802.11ax40\_2437MHz RU\_Full  
3.869ms,13.886ms



ProjectNo.:2401Y98612E-RF Tester:Brian LI  
Date: 15.NOV.2024 22:52:43

## RF EXPOSURE EVALUATION

### MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

#### MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

| RF Source frequency (MHz) | Threshold ERP (watts) |
|---------------------------|-----------------------|
| 0.3-1.34                  | $1,920 R^2$ .         |
| 1.34-30                   | $3,450 R^2/f^2$ .     |
| 30-300                    | $3.83 R^2$ .          |
| 300-1,500                 | $0.0128 R^2 f$ .      |
| 1,500-100,000             | $19.2 R^2$ .          |

R is the minimum separation distance in meters

f = frequency in MHz

#### Result

| Mode  | Frequency (MHz) | Tune up conducted power <sup>#</sup> (dBm) | Antenna Gain <sup>#</sup> |       | ERP   |       | Evaluation Distance (m) | ERP Limit (W) |
|-------|-----------------|--------------------------------------------|---------------------------|-------|-------|-------|-------------------------|---------------|
|       |                 |                                            | (dBi)                     | (dBd) | (dBm) | (W)   |                         |               |
| Wi-Fi | 2412-2462       | 22                                         | 3.9                       | 1.75  | 23.75 | 0.237 | 0.2                     | 0.768         |

Note: The tune up conducted power and antenna gain was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

**Result: Compliant**

## **EUT PHOTOGRAPHS**

Please refer to the attachment 2401Y98612E-RF External photo and 2401Y98612E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2401Y98612E-RF-00A Test Setup photo.

**\*\*\*\*\* END OF REPORT \*\*\*\*\***