



TEST REPORT

APPLICANT : Nubia Technology Co., Ltd.
PRODUCT NAME : 5G Mobile Phone
MODEL NAME : NX679J
BRAND NAME : REDMAGIC
FCC ID : 2AHJO-NX679J
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2021-10-22
TEST DATE : 2021-11-10 to 2021-12-30
ISSUE DATE : 2022-01-10

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| Change History | | |
|----------------|------------|-------------------|
| Version | Date | Reason for change |
| 1.0 | 2022-01-10 | First edition |
| | | |



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

| | |
|------------------------------|--|
| Applicant: | Nubia Technology Co., Ltd. |
| Applicant Address: | Room 1801, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370, Liuxian Rd, Nanshan District, Shenzhen City, Guangdong Province, P. R. China |
| Manufacturer: | Nubia Technology Co., Ltd. |
| Manufacturer Address: | Room 1801, Building 2, Chongwen Park, Nanshan Zhiyuan, No.3370, Liuxian Rd, Nanshan District, Shenzhen City, Guangdong Province, P. R. China |

1.2. Equipment Under Test (EUT) Description

| | | |
|-----------------------------------|--|-------------------------------------|
| Product Name: | 5G Mobile Phone | |
| Sample No.: | 1# | |
| Hardware Version: | NX679J_V1AMB | |
| Software Version: | NX679J_UNCommon_V4.01 | |
| Modulation Technology: | DSSS, OFDM | |
| Modulation Type: | Refer to section1.3 | |
| Wireless Technology: | 802.11b, 802.11g, 802.11n (HT20) 802.11ax (HEW20), 802.11ax (HEW40) | |
| Operating Frequency Range: | 2412MHz–2462MHz | |
| Antenna Type: | PIFA Antenna | |
| Antenna Gain: | ANT 0: 0.50dBi; ANT 1: -2.00dBi | |
| Directional Gain: | 3.51dBi ^{Note 2} | |
| Accessory Information: | Battery | |
| | Brand Name: | nubia |
| | Model No.: | Li3945T44P8h556490 |
| | Serial No.: | N/A |
| | Capacity: | 2190mAh |
| | Rated Voltage: | 7.74V |
| | Charge Limit: | 8.9V |
| | Manufacturer: | Dongguan Amperex Technology Limited |



| | | |
|-------------------------------|---------------|---|
| Accessory Information: | AC Adapter | |
| | Brand Name: | nubia |
| | Model No.: | STC-A59152050AC-Z |
| | Serial No.: | N/A |
| | Rated Output: | 5.0V \Rightarrow 3.0A, 9.0V \Rightarrow 3.0A, 15V \Rightarrow 3.0A, 20V \Rightarrow 3.25A PPS: 5.0V-11.0V \Rightarrow 5.0A, 5.0V-20.0V \Rightarrow 3.25A |
| | Rated Input: | 100-240V \sim 50/60Hz, 1.5A |
| | Manufacturer: | ShenZhen KunXing Technology Co.,Ltd. |

Note 1: The EUT supports a MIMO function. Physically, the EUT provides two completed transmitters and two receivers for 802.11n and 802.11ax modulation mode.

| Modulation Mode: | TX Function |
|-------------------------|--------------------|
| 802.11n | 2TX |
| 802.11ax | 2TX |

Note 2: According to KDB 662911 D01, the directional gain = $G_{ANT} + 10\log(N_{ANT})$ dBi, where G_{ANT} is the maximum antenna gain in dBi, N_{ANT} is the number of outputs.

Note 3: For conducted test item Conducted Output Power and Power Spectral Density of each modulation mode, we recorded the test result of two antennas separately, for other conducted test items both of the two antennas were tested separately, we only recorded the worst test result (ANT 0) in this report.

Note 4: All radiation test items for 802.11n and 802.11 ax modulation mode operate at MIMO mode during the test. Other modulation mode operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result(ANT 0) in this report.

Note 5: We use the dedicated software to control the EUT continuous transmission.

Note 6: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Modulation Type and Data Rate of EUT

| Mode | Bandwidth (MHz) | Modulation Technology | Modulation Type | Data Rate | RU Size |
|----------|------------------|-----------------------|-----------------|----------------------------|---------|
| 802.11b | 20 | DSSS | DBPSK | 1/2/5.5/11Mbps | N/A |
| | | | DQPSK | | |
| | | | CCK | | |
| 802.11g | 20 | OFDM | BPSK | 6/9/12/18/24/36/48/54 Mbps | N/A |
| | | | QPSK | | |
| | | | 16QAM | | |
| | | | 64QAM | | |
| 802.11n | 20 (HT20) | OFDM | BPSK | MCS0~MCS7 | N/A |
| | | | QPSK | | |
| | | | 16QAM | | |
| | | | 64QAM | | |
| 802.11ax | 20/40 (HEW20/40) | OFDMA | BPSK | MCS0~MCS11 | 26 |
| | | | QPSK | | |
| | | | 16QAM | | |
| | | | 64QAM | | |
| | | | 256QAM | | |
| | | | 1024QAM | | |

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.



1.4. The Channel Number and Frequency

| Test Mode | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------------------------------|----------|-----------------|-----------|-----------------|
| 802.11b/g/n(HT20)/ ax(HEW20) | 1 | 2412 | 8 | 2447 |
| | 2 | 2417 | 9 | 2452 |
| | 3 | 2422 | 10 | 2457 |
| | 4 | 2427 | 11 | 2462 |
| | 5 | 2432 | | |
| | 6 | 2437 | | |
| | 7 | 2442 | | |
| Test Mode | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 802.11 ax(HEW40) | 3 | 2422 | 8 | 2447 |
| | 4 | 2427 | 9 | 2452 |
| | 5 | 2432 | | |
| | 6 | 2437 | | |
| | 7 | 2442 | | |

Note 1: The black bold channels were selected for test.



1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

| No. | Identity | Document Title |
|-----|----------------|-------------------------|
| 1 | 47 CFR Part 15 | Radio Frequency Devices |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section | Description | Test Date | Test Engineer | Result | Method determination /Remark |
|-----|-------------------|---|-----------------|---------------|--------|------------------------------|
| 1 | 15.203 | Antenna Requirement | N/A | N/A | PASS | No deviation |
| 2 | N/A | Duty Cycle of Test Signal | Nov 11, 2021 | Meng Shurui | PASS | No deviation |
| 3 | 15.247(b) | Maximum Conducted Output Power | Nov 11, 2021 | Meng Shurui | PASS | No deviation |
| 4 | 15.247(a) | Bandwidth | Nov 13, 2021 | Meng Shurui | PASS | No deviation |
| 5 | 15.247(d) | Conducted Spurious Emission and Band Edge | Nov 13, 2021 | Meng Shurui | PASS | No deviation |
| 6 | 15.247(e) | Power Spectral Density (PSD) | Nov 13, 2021 | Meng Shurui | PASS | No deviation |
| 7 | 15.207 | Conducted Emission | Dec 10, 2021 | Yang Lian | PASS | No deviation |
| 8 | 15.247(d) | Restricted Frequency Bands | Dec 01&08, 2021 | Su Zhan | PASS | No deviation |
| 9 | 15.209, 15.247(d) | Radiated Emission | Dec 29&30, 2021 | Su Zhan | PASS | No deviation |

Note 1: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013, KDB558074 D01 v05r02 and KDB662911 D01 v02r01.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 11.5dB contains two parts that cable loss 1.5dB and Attenuator 10dB.



Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.6. Environmental Conditions

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

| | |
|-----------------------------|--------|
| Temperature (°C): | 15-35 |
| Relative Humidity (%): | 30-60 |
| Atmospheric Pressure (kPa): | 86-106 |



2. 47 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1. 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.

2.1.2. Test Result: Compliant

Inside of the EUT has a PIFA antenna coupled with the metal shrapnel. Please refer to the EUT internal photos.

2.2. Duty Cycle of Test Signal

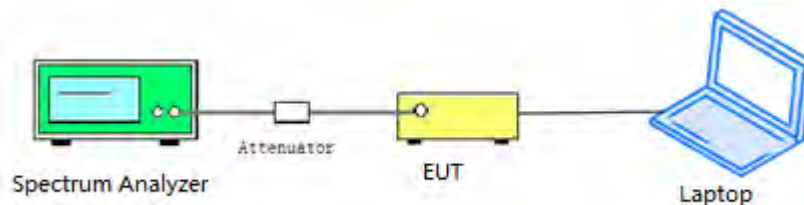
2.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this subclause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be nonconstant.

2.2.2. Test Description

Test Setup:



ANSI C63.10 2013 Clause 11.6 was used in order to prove compliance.

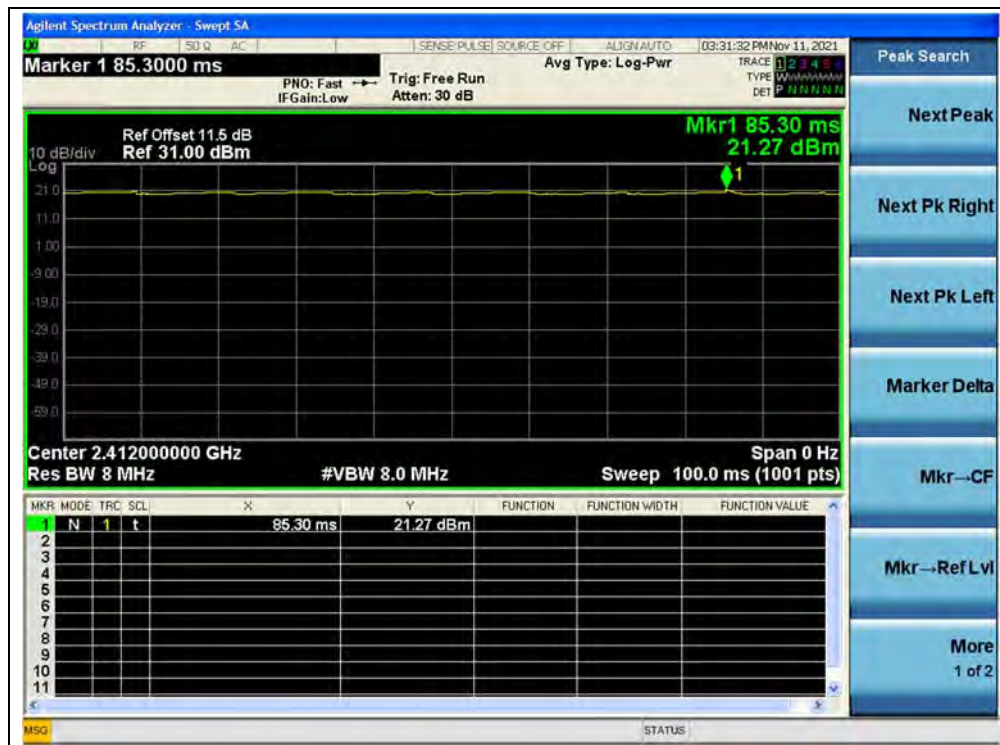


2.2.3. Test Result

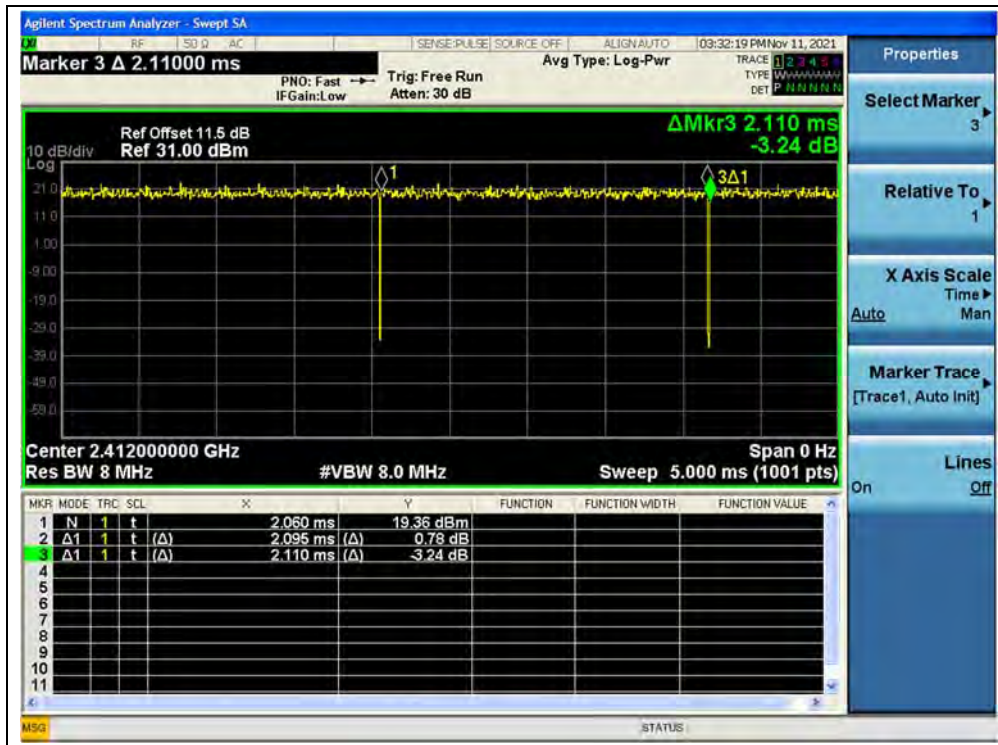
A. Test Verdict:

| Test Mode | Duty Cycle (%) (D) | Duty Factor (10*Ig[1/D]) |
|-----------------------|--------------------|--------------------------|
| 802.11b | 100.00 | 0.00 |
| 802.11g | 99.53 | 0.02 |
| 802.11n (HT20) | 99.63 | 0.02 |
| 802.11ax (HEW20) | 99.63 | 0.02 |
| 802.11ax (HEW20) RU26 | 99.61 | 0.02 |
| 802.11ax (HEW40) | 99.63 | 0.02 |

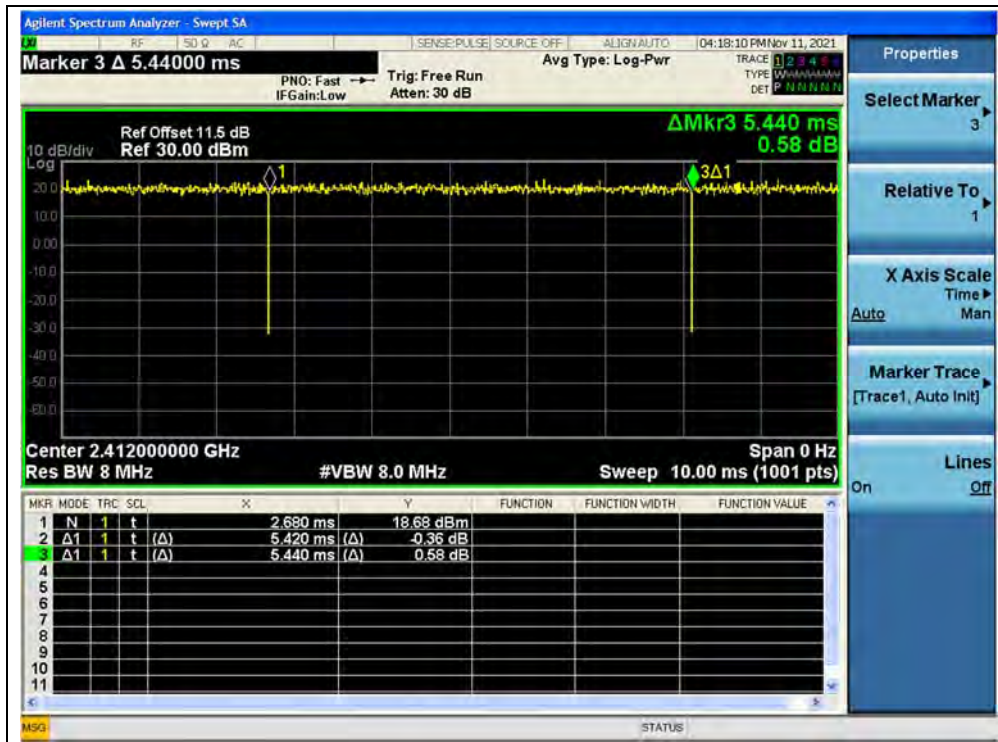
B. Test Plot:



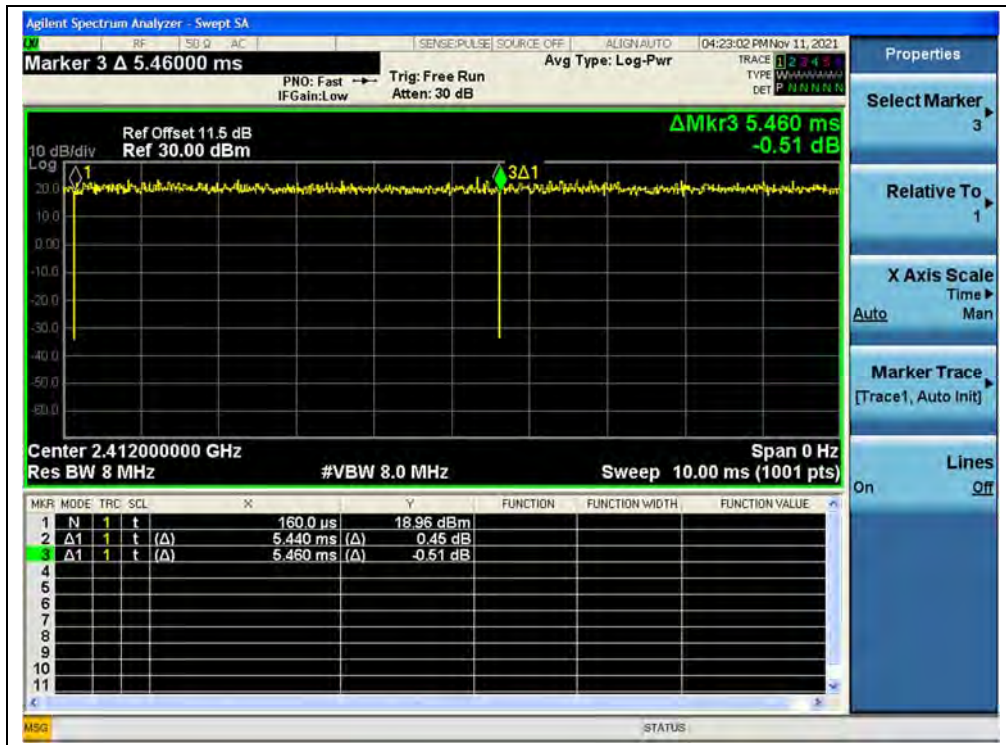
(Channel 1, 802.11b)



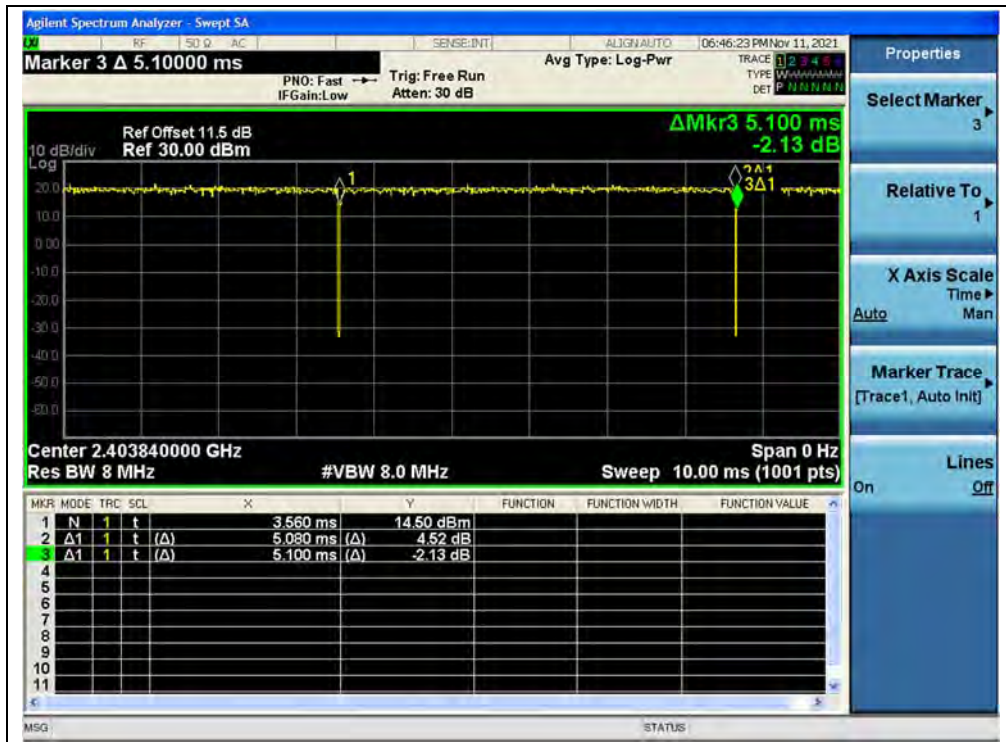
(Channel 1, 802.11g)



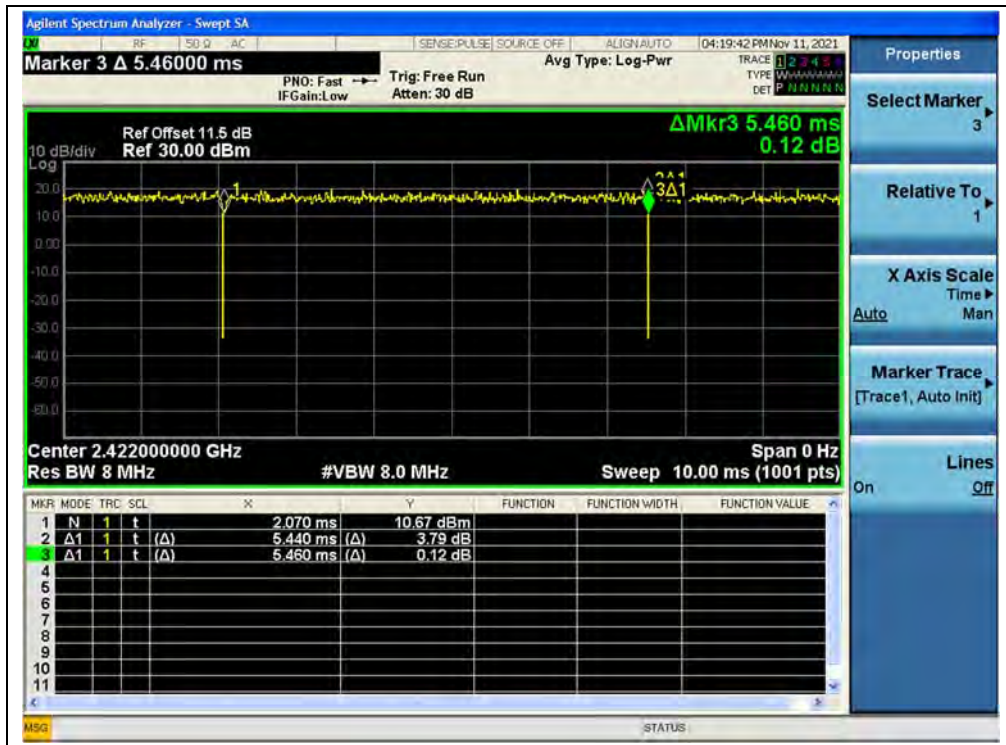
(Channel 1, 802.11n (HT20))



(Channel 1, 802.11ax (HEW20))



(Channel 1, 802.11ax (HEW20) RU26)



(Channel 3, 802.11ax (HEW40))

2.3. Maximum Conducted Output Power

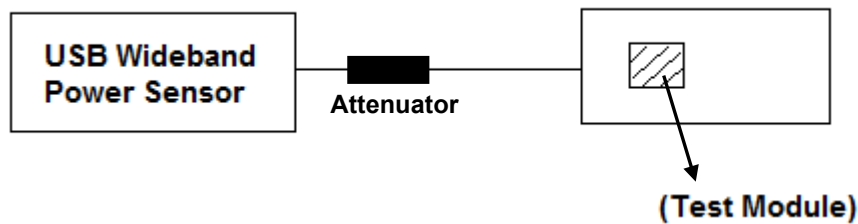
2.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum conducted output power of the intentional radiator shall not exceed 1 Watt.

2.3.2. Test Description

The measured output power was calculated by the reading of the USB Wideband Power Sensor and calibration.

Test Setup:



The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.



2.3.3. Test Result

Maximum Peak Conducted Output Power

802.11b Mode

| Channel | Frequency (MHz) | Measured Peak Power | | | | Limit (dBm) | | Verdict |
|---------|-----------------|---------------------|-------|-------|-------|-------------|---|---------|
| | | ANT 0 | | ANT 1 | | dBm | W | |
| | | dBm | W | dBm | W | | | |
| 1 | 2412 | 18.88 | 0.077 | 18.26 | 0.067 | 30 | 1 | PASS |
| 6 | 2437 | 19.21 | 0.083 | 17.09 | 0.051 | | | PASS |
| 11 | 2462 | 18.47 | 0.070 | 19.97 | 0.099 | | | PASS |

802.11g Mode

| Channel | Frequency (MHz) | Measured Peak Power | | | | Limit (dBm) | | Verdict |
|---------|-----------------|---------------------|--------------|--------------|--------------|-------------|---|---------|
| | | ANT 0 | | ANT 1 | | dBm | W | |
| | | dBm | W | dBm | W | | | |
| 1 | 2412 | 21.87 | 0.154 | 21.06 | 0.128 | 30 | 1 | PASS |
| 6 | 2437 | 21.90 | 0.155 | 19.86 | 0.097 | | | PASS |
| 11 | 2462 | 21.77 | 0.150 | 22.45 | 0.176 | | | PASS |

802.11n (HT20) Mode

| Channel | Frequency (MHz) | Measured Peak Power (dBm) | | Total Power (dBm) | Total Power (W) | Limit | | Verdict |
|---------|-----------------|---------------------------|-------|-------------------|-----------------|-------|---|---------|
| | | ANT 0 | ANT 1 | | | dBm | W | |
| 1 | 2412 | 21.82 | 20.85 | 24.38 | 0.274 | 30 | 1 | PASS |
| 6 | 2437 | 21.68 | 19.95 | 23.91 | 0.246 | | | PASS |
| 11 | 2462 | 21.80 | 22.37 | 25.11 | 0.324 | | | PASS |

Note: Directional gain = 0.50dBi + 10log(2) = 3.51dBi < 6dBi, so the power limit is 1W(30dBm).

802.11ax (HEW20) Mode

| Channel | Frequency (MHz) | Measured Peak Power (dBm) | | Total Power (dBm) | Total Power (W) | Limit | | Verdict |
|---------|-----------------|---------------------------|-------|-------------------|-----------------|-------|---|---------|
| | | ANT 0 | ANT 1 | | | dBm | W | |
| 1 | 2412 | 23.07 | 21.60 | 25.40 | 0.347 | 30 | 1 | PASS |
| 6 | 2437 | 23.01 | 20.74 | 25.04 | 0.319 | | | PASS |
| 11 | 2462 | 23.09 | 23.02 | 26.06 | 0.404 | | | PASS |

Note: Directional gain = 0.50dBi + 10log(2) = 3.51dBi < 6dBi, so the power limit is 1W(30dBm).

**802.11ax (HEW20) RU26 Mode**

| Channel | Frequency (MHz) | Measured Peak Power (dBm) | | Total Power (dBm) | Total Power (W) | Limit | | Verdict |
|---------|-----------------|---------------------------|-------|-------------------|-----------------|-------|---|---------|
| | | ANT 0 | ANT 1 | | | dBm | W | |
| 1 | 2412 | 23.92 | 21.01 | 25.72 | 0.373 | 30 | 1 | PASS |
| 6 | 2437 | 24.27 | 21.18 | 26.01 | 0.399 | | | PASS |
| 11 | 2462 | 23.85 | 22.61 | 26.28 | 0.425 | | | PASS |

Note: Directional gain = $0.50\text{dBi} + 10\log(2) = 3.51\text{dBi} < 6\text{dBi}$, so the power limit is 1W(30dBm).

802.11ax (HEW40) Mode

| Channel | Frequency (MHz) | Measured Peak Power (dBm) | | Total Power (dBm) | Total Power (W) | Limit | | Verdict |
|---------|-----------------|---------------------------|-------|-------------------|-----------------|-------|---|---------|
| | | ANT 0 | ANT 1 | | | dBm | W | |
| 3 | 2422 | 20.09 | 19.64 | 22.88 | 0.194 | 30 | 1 | PASS |
| 6 | 2437 | 20.97 | 19.86 | 23.46 | 0.222 | | | PASS |
| 9 | 2452 | 21.23 | 20.39 | 23.84 | 0.242 | | | PASS |

Note: Directional gain = $0.50\text{dBi} + 10\log(2) = 3.51\text{dBi} < 6\text{dBi}$, so the power limit is 1W(30dBm).



Maximum Average Conducted Output Power

802.11b Mode

| Frequency (MHz) | Average Power | | | | | | Limit | | Verdict | |
|--------------------|---------------|-------|----------------|------------------------|--------------|--------------|--------------|-----|---------|------|
| | Measured | | Duty Factor | Duty factor Calculated | | | | | | |
| | ANT 0 | ANT 1 | | ANT 0 | | ANT 1 | | | | |
| | dBm | dBm | | dBm | W | dBm | W | dBm | | W |
| 2412 | 16.46 | 16.36 | 0.00 | 16.46 | 0.044 | 16.36 | 0.043 | 30 | 1 | PASS |
| 2437 | 17.13 | 15.25 | | 17.13 | 0.052 | 15.25 | 0.033 | | | PASS |
| 2462 | 16.42 | 16.48 | | 16.42 | 0.044 | 16.48 | 0.044 | | | PASS |

802.11g Mode

| Frequency (MHz) | Average Power | | | | | | Limit | | Verdict | |
|--------------------|---------------|-------|----------------|------------------------|-------|-------|-------|-----|---------|------|
| | Measured | | Duty Factor | Duty factor Calculated | | | | | | |
| | ANT 0 | ANT 1 | | ANT 0 | | ANT 1 | | | | |
| | dBm | dBm | | dBm | W | dBm | W | dBm | | W |
| 2412 | 15.71 | 15.37 | 0.02 | 15.71 | 0.037 | 15.37 | 0.034 | 30 | 1 | PASS |
| 2437 | 16.03 | 14.40 | | 16.03 | 0.040 | 14.40 | 0.028 | | | PASS |
| 2462 | 15.34 | 15.56 | | 15.34 | 0.034 | 15.56 | 0.036 | | | PASS |

802.11n (HT20) Mode

| Frequency (MHz) | Average Power | | | | | Limit | | Verdict |
|--------------------|---------------|-------|----------------|------------------------------|--------------|-------|---|---------|
| | Measured | | Duty Factor | Total Power with Duty Factor | | | | |
| | ANT 0 | ANT 1 | | | | | | |
| | dBm | dBm | | dBm | W | dBm | W | |
| 2412 | 15.44 | 15.09 | 0.00 | 18.33 | 0.068 | 30 | 1 | PASS |
| 2437 | 15.71 | 14.10 | | 17.99 | 0.063 | | | PASS |
| 2462 | 15.45 | 15.17 | | 18.33 | 0.068 | | | PASS |

Note: Directional gain = 0.50dBi +10log(2) = 3.51dBi < 6dBi, so the power limit is 1W(30dBm).

802.11ax (HEW20) Mode

| Frequency (MHz) | Average Power | | | | | Limit | | Verdict |
|--------------------|---------------|-------|----------------|------------------------------|--------------|-------|---|---------|
| | Measured | | Duty Factor | Total Power with Duty Factor | | | | |
| | ANT 0 | ANT 1 | | | | | | |
| | dBm | dBm | | dBm | W | dBm | W | |
| 2412 | 15.56 | 15.27 | 0.02 | 18.45 | 0.070 | 30 | 1 | PASS |
| 2437 | 15.82 | 14.28 | | 18.13 | 0.065 | | | PASS |
| 2462 | 15.69 | 15.41 | | 18.57 | 0.072 | | | PASS |

Note: Directional gain = 0.50dBi +10log(2) = 3.51dBi < 6dBi, so the power limit is 1W(30dBm).



802.11ax (HEW20) RU26 Mode

| Frequency (MHz) | Average Power | | | | Limit | | Verdict | |
|-----------------|---------------|-------|-------------|------------------------------|--------------|-----|---------|------|
| | Measured | | Duty Factor | Total Power with Duty Factor | | dBm | | W |
| | ANT 0 | ANT 1 | | dBm | W | | | |
| 2412 | 15.40 | 15.07 | 0.02 | 18.26 | 0.067 | 30 | 1 | PASS |
| 2437 | 15.65 | 14.87 | | 18.33 | 0.068 | | | PASS |
| 2462 | 15.77 | 15.56 | | 18.69 | 0.074 | | | PASS |

Note: Directional gain = 0.50dBi +10log(2) = 3.51dBi < 6dBi, so the power limit is 1W(30dBm).

802.11ax (HEW40) Mode

| Frequency (MHz) | Average Power | | | | Limit | | Verdict | |
|-----------------|---------------|-------|-------------|------------------------------|-------|-----|---------|------|
| | Measured | | Duty Factor | Total Power with Duty Factor | | dBm | | W |
| | ANT 0 | ANT 1 | | dBm | W | | | |
| 2422 | 15.24 | 14.87 | 0.02 | 18.06 | 0.064 | 30 | 1 | PASS |
| 2437 | 15.12 | 14.18 | | 17.71 | 0.059 | | | PASS |
| 2452 | 15.44 | 14.05 | | 17.85 | 0.061 | | | PASS |

Note: Directional gain = 0.50dBi +10log(2) = 3.51dBi < 6dBi, so the power limit is 1W(30dBm).

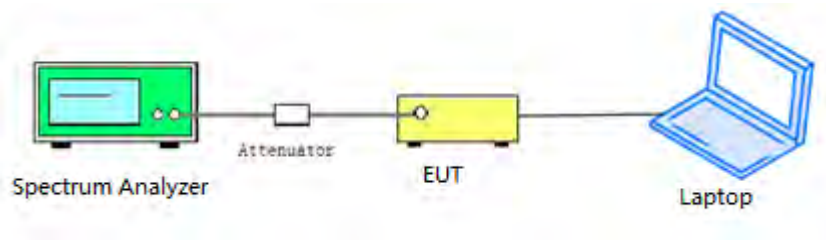
2.4. Bandwidth

2.4.1. Requirement

According to FCC section 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.

2.4.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

2.4.3. Test Procedure

KDB 558074 Section 8.2 was used in order to prove compliance.



2.4.4. Test Result

802.11b Mode

A. Test Verdict:

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limits(kHz) | Result |
|---------|-----------------|----------------------|-------------|--------|
| 1 | 2412 | 8.058 | ≥500 | PASS |
| 6 | 2437 | 7.523 | ≥500 | PASS |
| 11 | 2462 | 7.485 | ≥500 | PASS |

B. Test Plot:



(Channel 1, 802.11b)



(Channel 6, 802.11b)



(Channel 11, 802.11b)



802.11g Mode

A. Test Verdict:

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limits(kHz) | Result |
|---------|-----------------|----------------------|-------------|--------|
| 1 | 2412 | 16.31 | ≥500 | PASS |
| 6 | 2437 | 16.30 | ≥500 | PASS |
| 11 | 2462 | 16.32 | ≥500 | PASS |

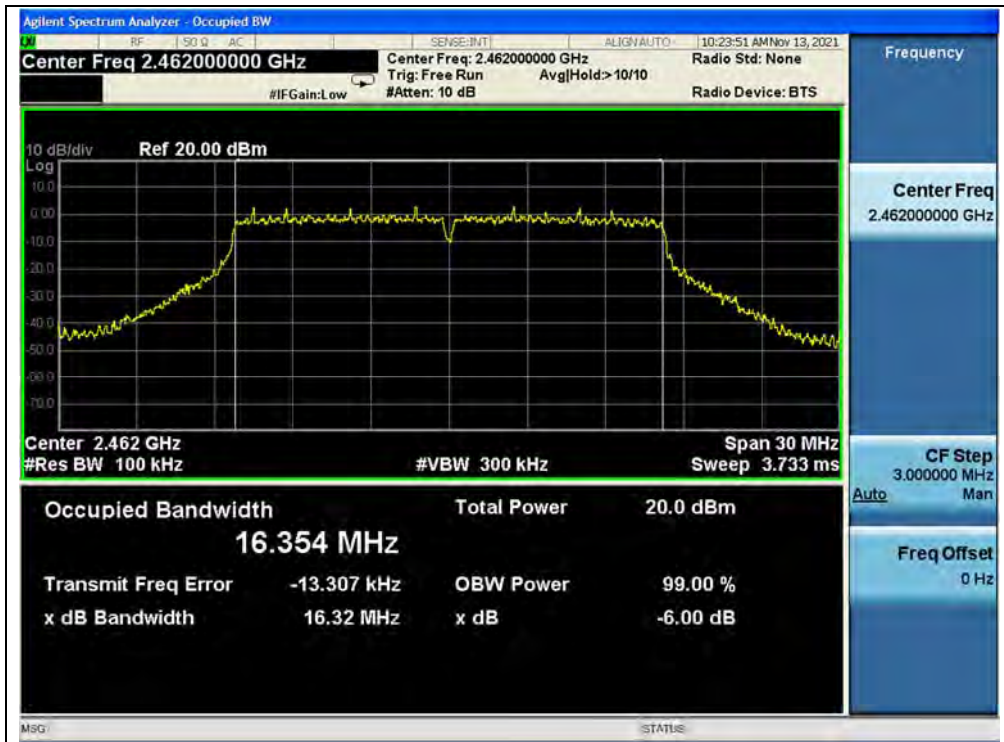
B. Test Plot:



(Channel 1, 802.11g)



(Channel 6, 802.11g)



(Channel 11, 802.11g)

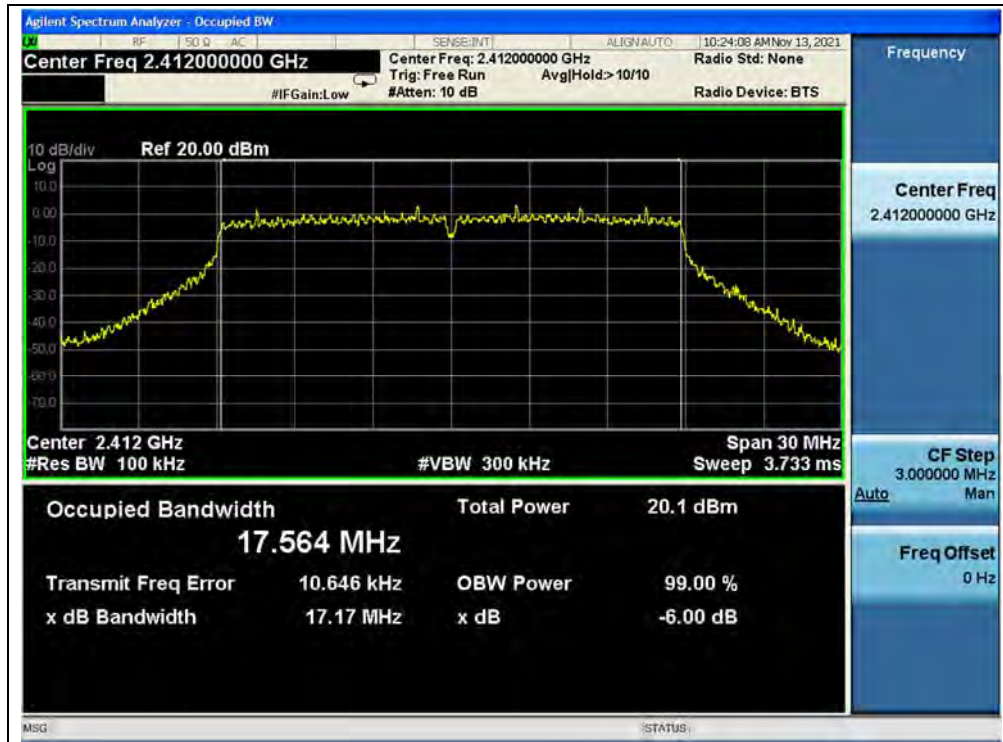


802.11n (HT20) Mode

A.Test Verdict:

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limits(kHz) | Result |
|---------|-----------------|----------------------|-------------|--------|
| 1 | 2412 | 17.17 | ≥500 | PASS |
| 6 | 2437 | 17.28 | ≥500 | PASS |
| 11 | 2462 | 17.17 | ≥500 | PASS |

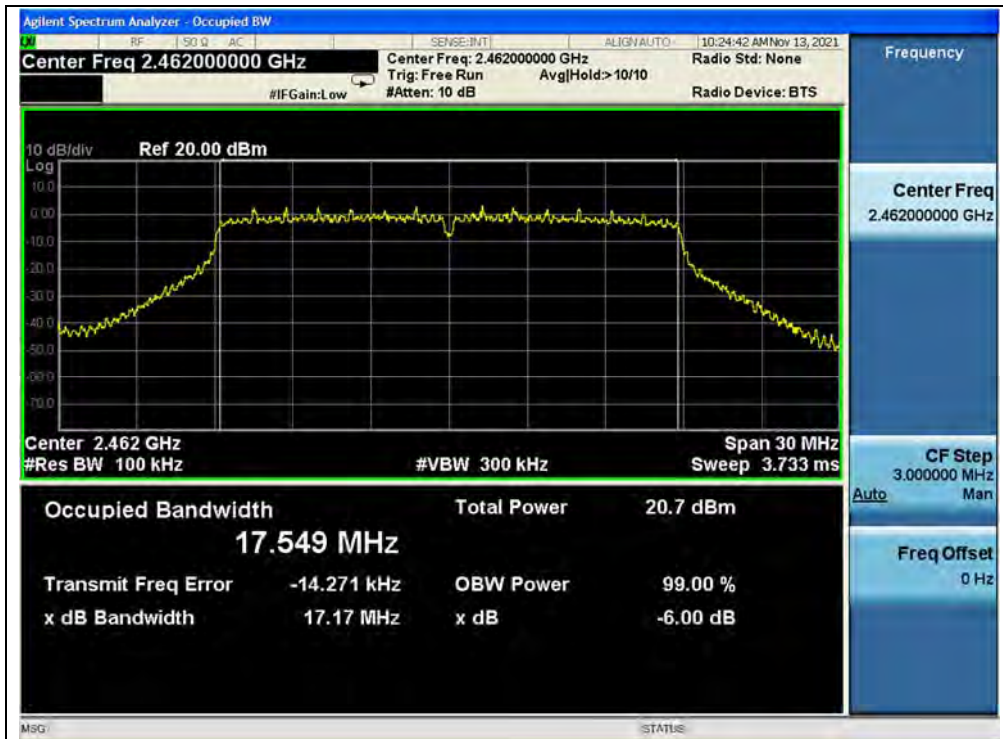
B.Test Plot:



(Channel 1, 802.11n (HT20))



(Channel 6, 802.11n (HT20))



(Channel 11, 802.11n (HT20))

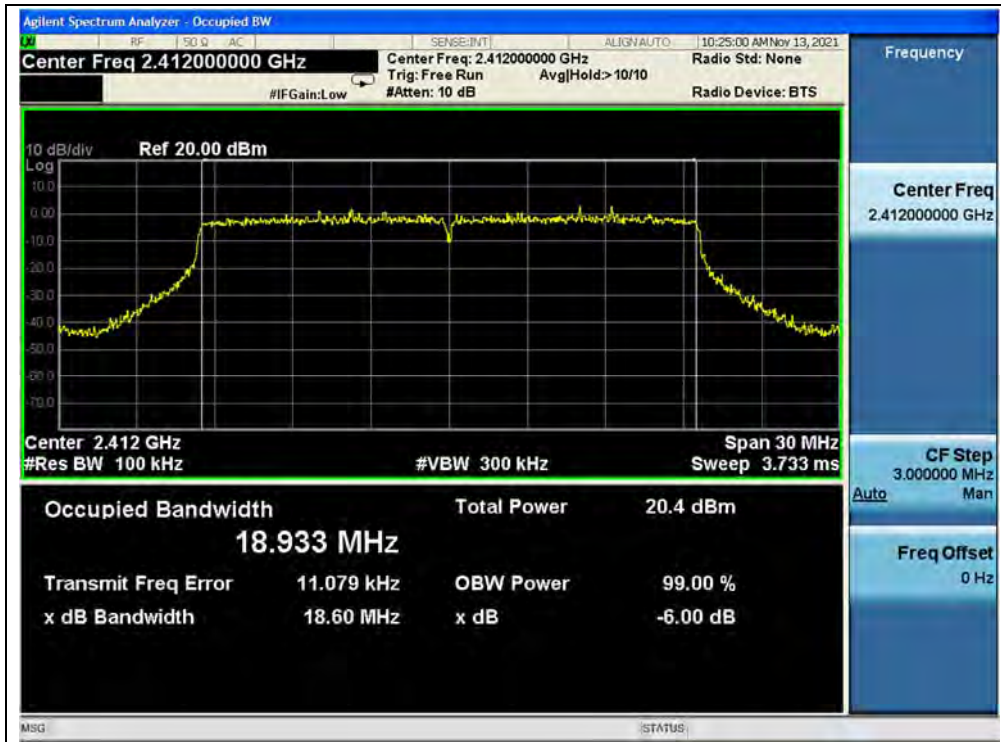


802.11ax (HEW20) Mode

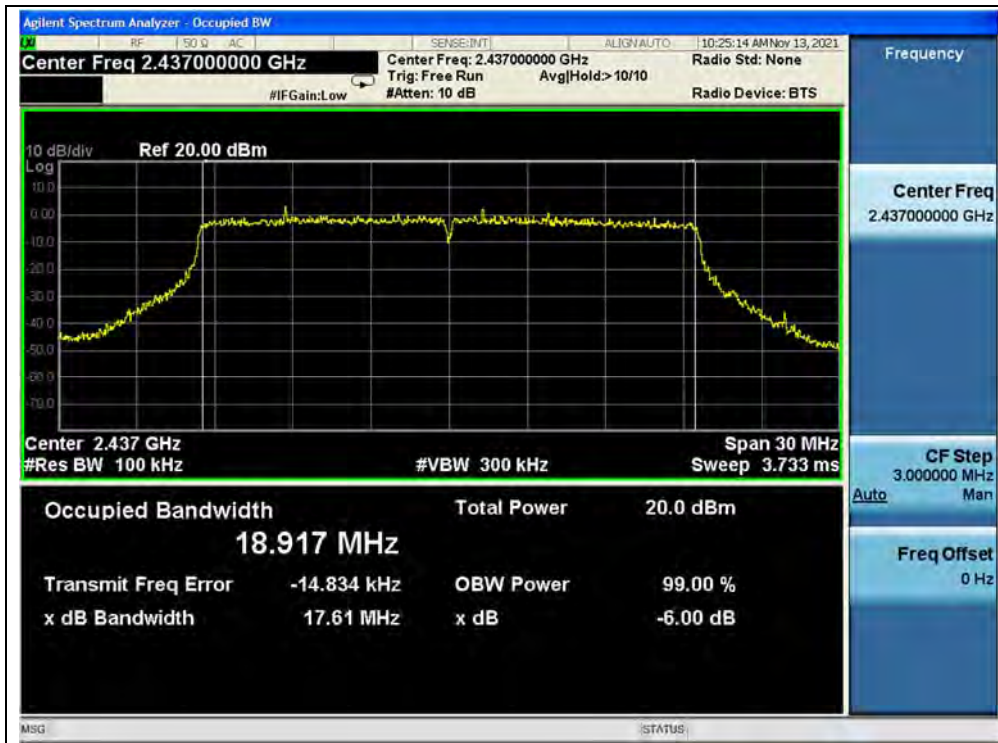
A.Test Verdict:

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limits(kHz) | Result |
|---------|-----------------|----------------------|-------------|--------|
| 1 | 2412 | 18.60 | ≥500 | PASS |
| 6 | 2437 | 17.61 | ≥500 | PASS |
| 11 | 2462 | 18.49 | ≥500 | PASS |

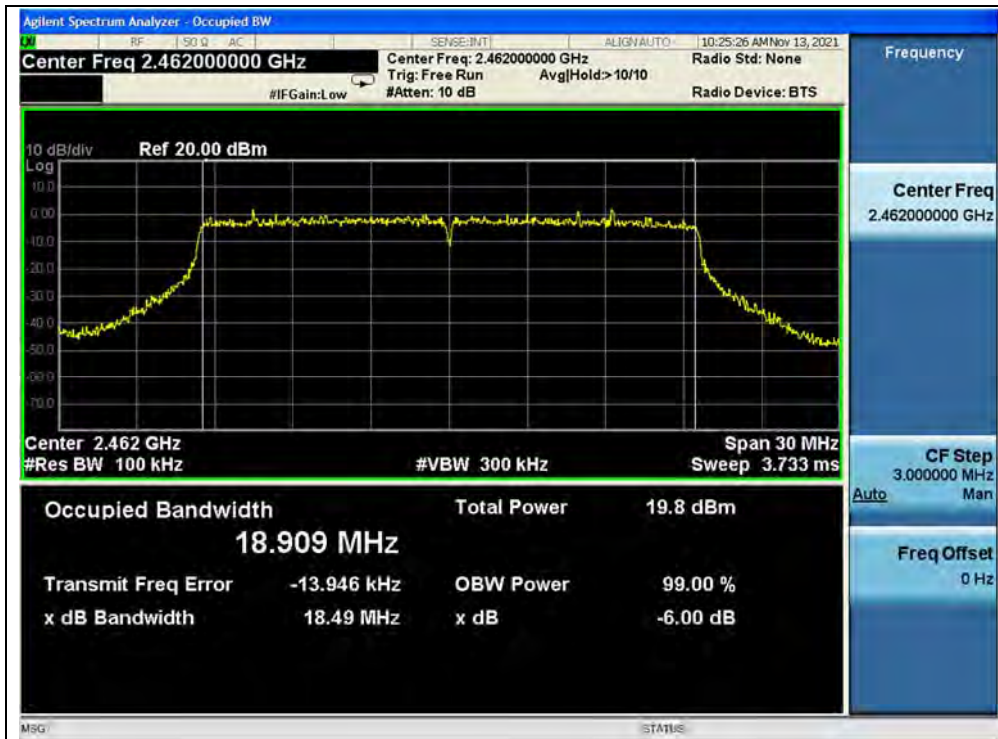
B.Test Plot:



(Channel 3, 802.11ax (HEW20))



(Channel 6, 802.11ax (HEW20))



(Channel 9, 802.11ax (HEW20))

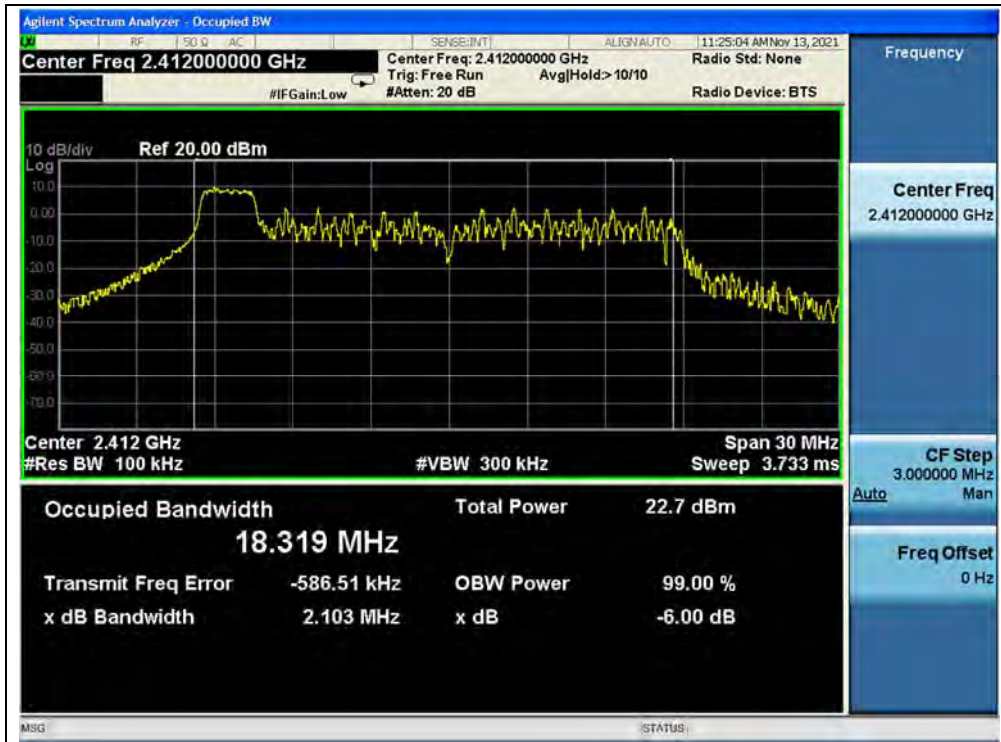


802.11ax (HEW20) RU26 Mode

A.Test Verdict:

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limits(kHz) | Result |
|---------|-----------------|----------------------|-------------|--------|
| 1 | 2412 | 2.103 | ≥500 | PASS |
| 6 | 2437 | 2.117 | ≥500 | PASS |
| 11 | 2462 | 2.059 | ≥500 | PASS |

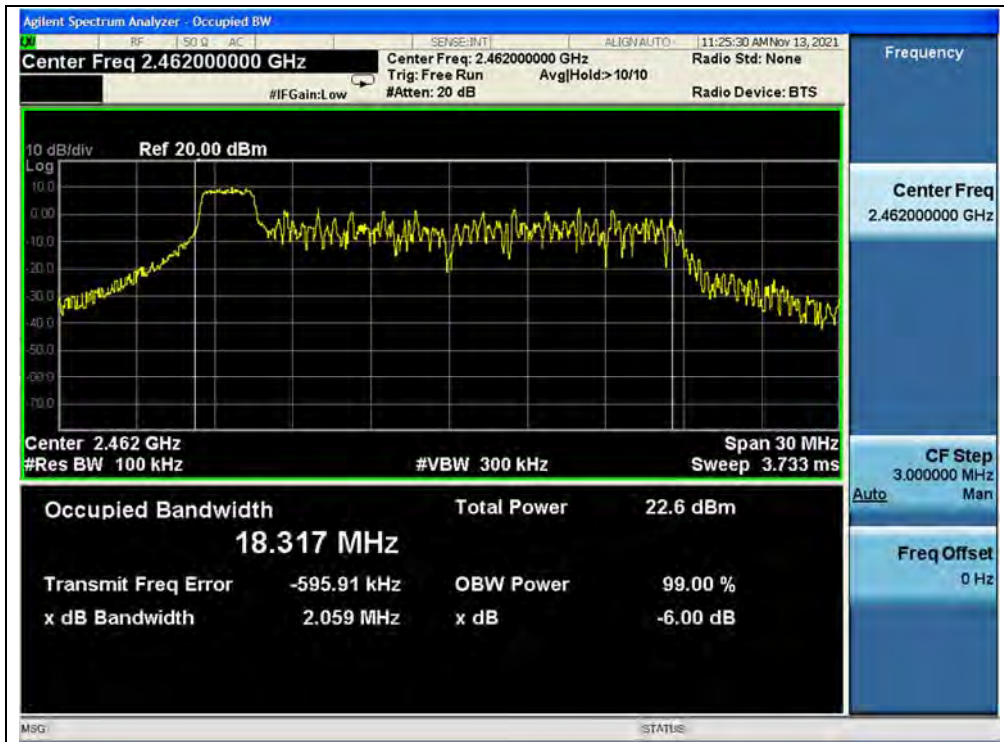
B.Test Plot:



(Channel 3, 802.11ax (HEW20) RU26)



(Channel 6, 802.11ax (HEW20) RU26)



(Channel 9, 802.11ax (HEW20) RU26)

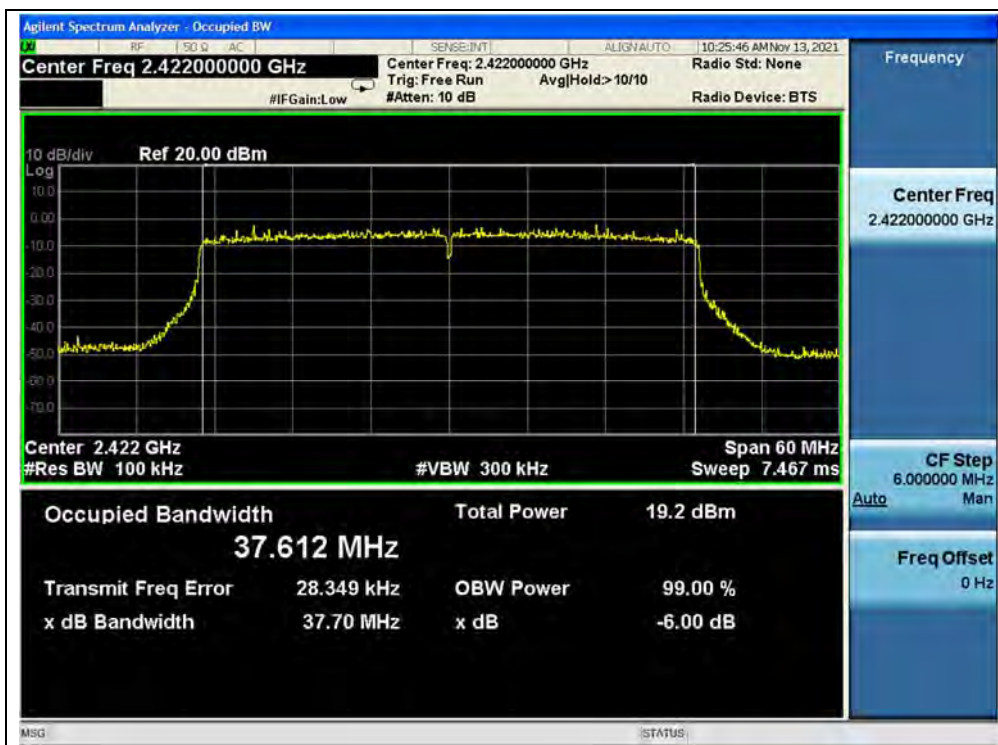


802.11ax (HEW40) Mode

A.Test Verdict:

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limits(kHz) | Result |
|---------|-----------------|----------------------|-------------|--------|
| 3 | 2422 | 37.70 | ≥500 | PASS |
| 6 | 2437 | 37.51 | ≥500 | PASS |
| 9 | 2452 | 37.80 | ≥500 | PASS |

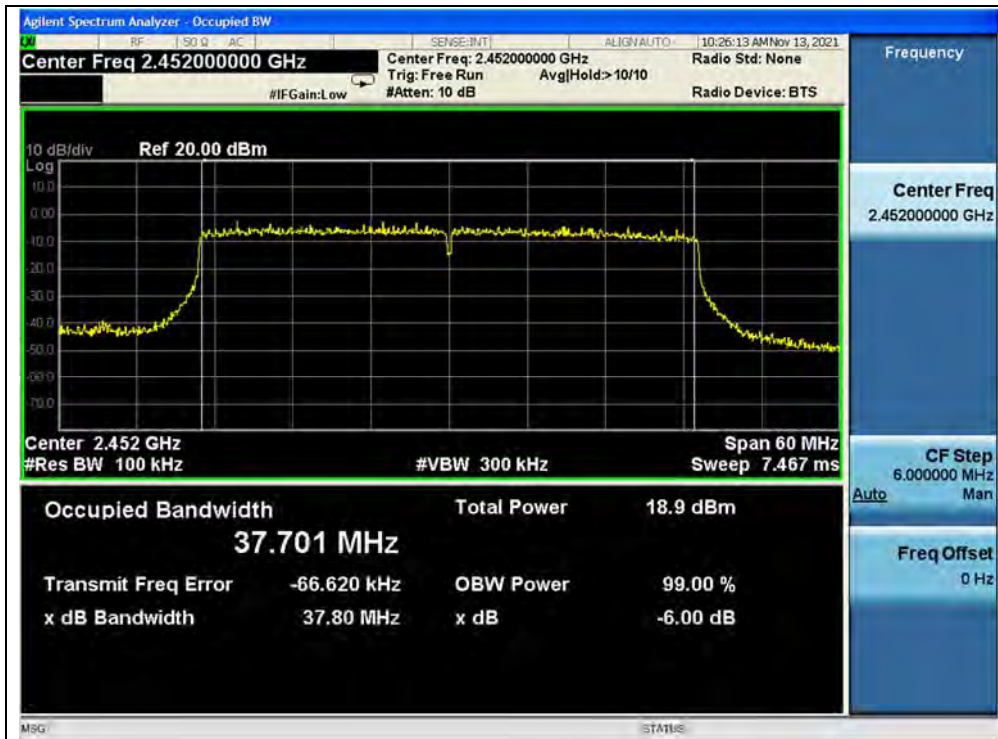
B.Test Plot:



(Channel 3, 802.11ax (HEW40))



(Channel 6, 802.11ax (HEW40))



(Channel 9, 802.11ax (HEW40))

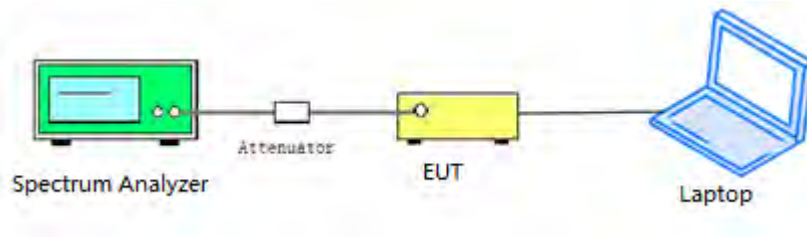
2.5. Conducted Spurious Emissions and Band Edge

2.5.1. Requirement

According to FCC section 15.247(c), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.5.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

2.5.3. Test Procedure

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.



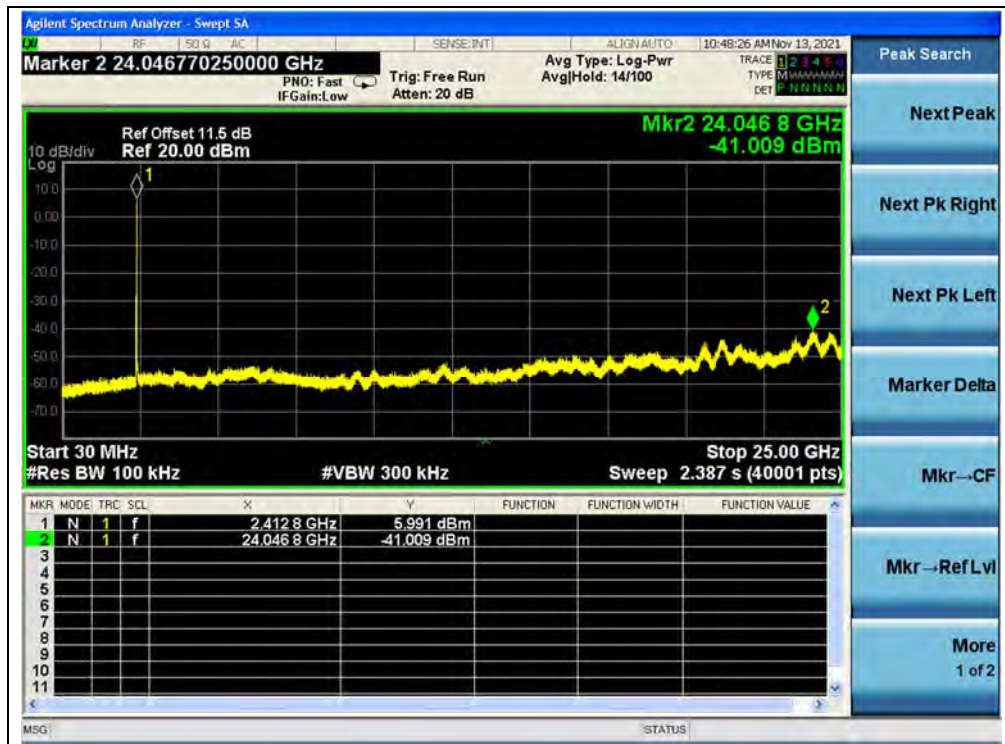
2.5.4. Test Result

802.11b Mode

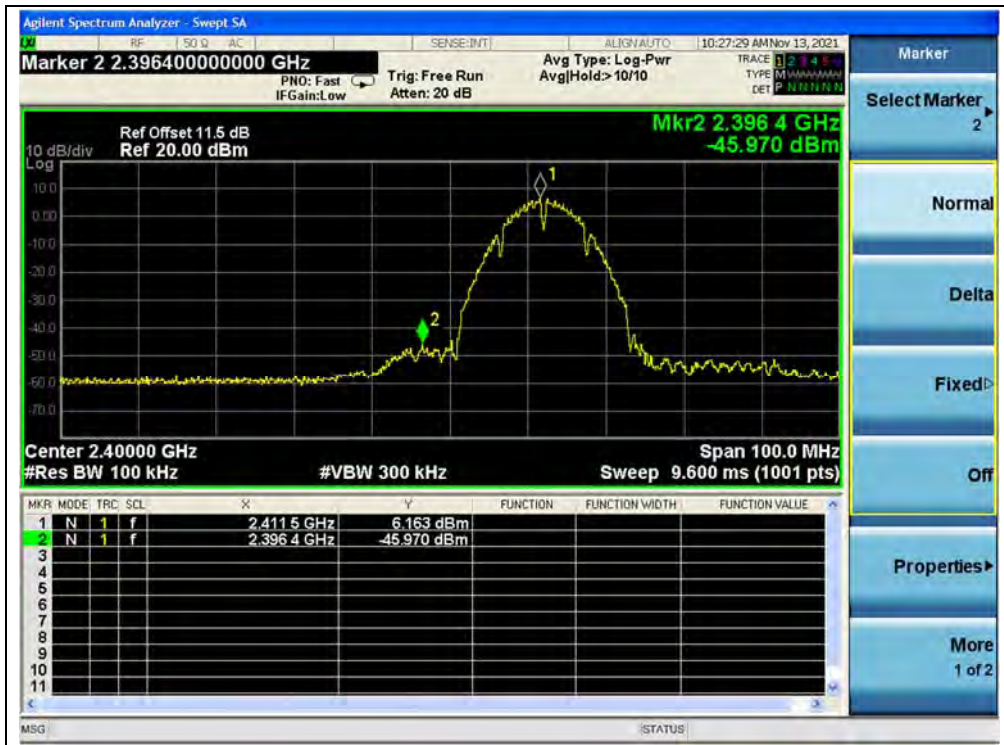
A. Test Verdict:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---------|-----------------|--|---------------|-------------------------|---------|
| | | | Carrier Level | Calculated -20dBc Limit | |
| 1 | 2412 | -41.01 | 5.99 | -14.01 | PASS |
| 6 | 2437 | -40.78 | 5.99 | -14.01 | PASS |
| 11 | 2462 | -40.79 | 5.75 | -14.25 | PASS |

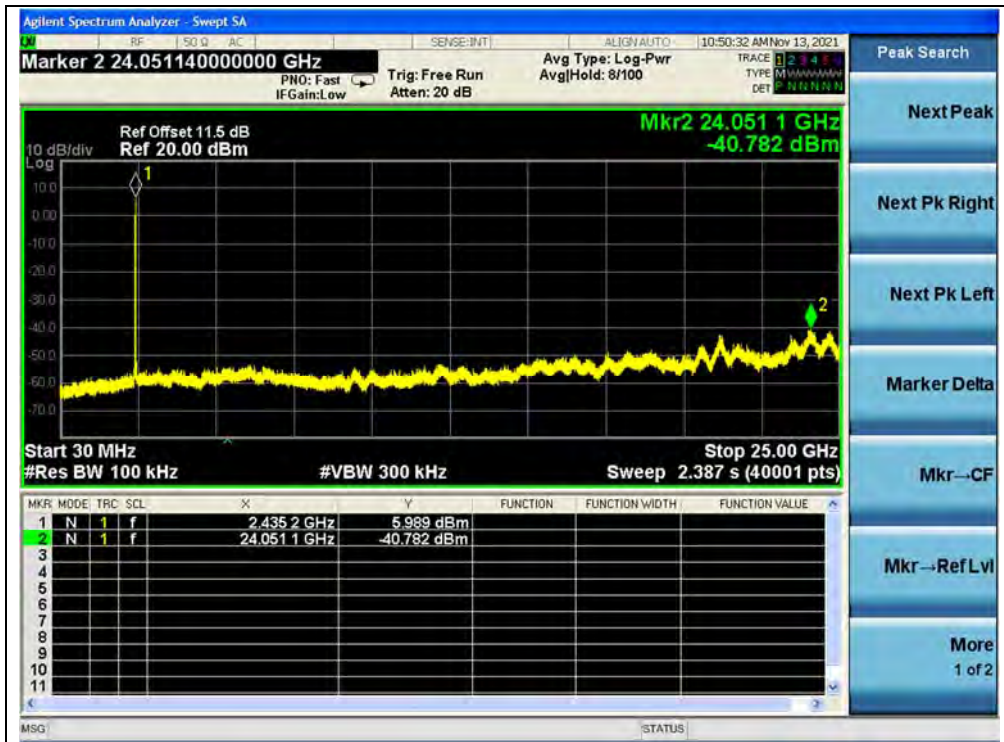
B. Test Plot:



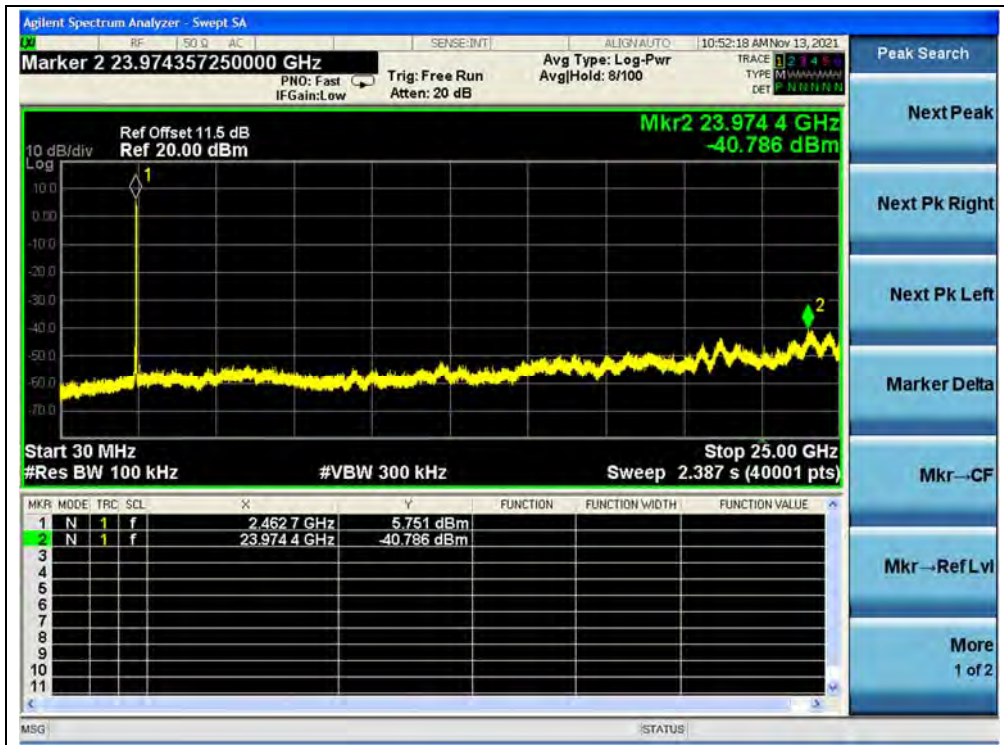
(30MHz to 25GHz, Channel 1, 802.11b)



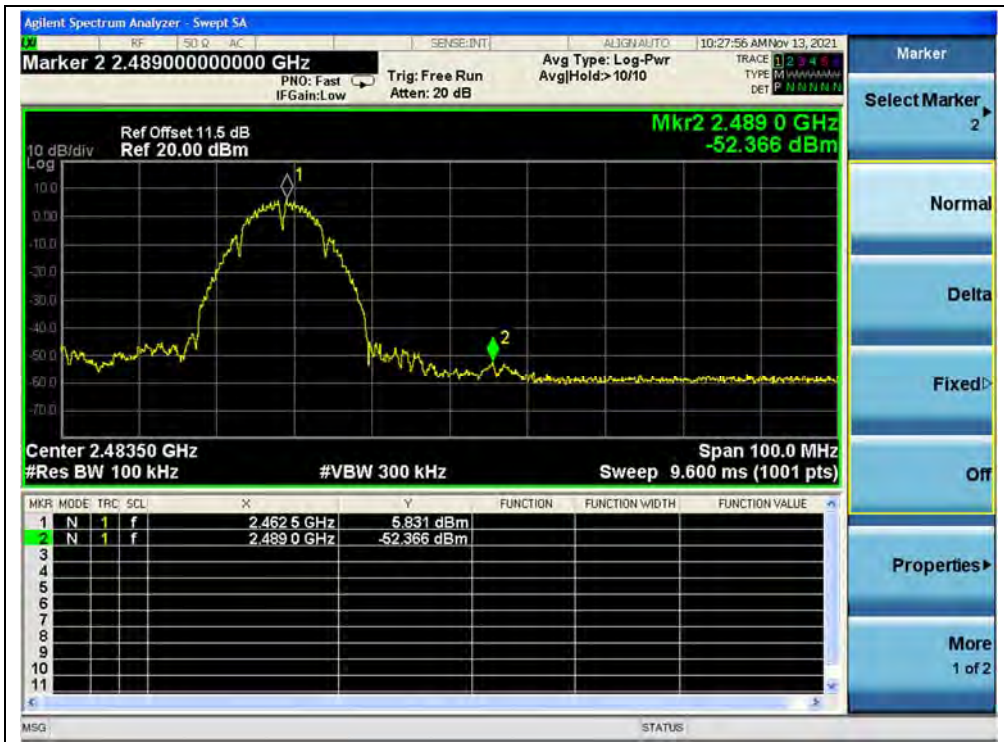
(Band Edge, Channel 1, 802.11b)



(30MHz to 25GHz, Channel 6, 802.11b)



(30MHz to 25GHz, Channel 11, 802.11b)



(Band Edge, Channel 11, 802.11b)

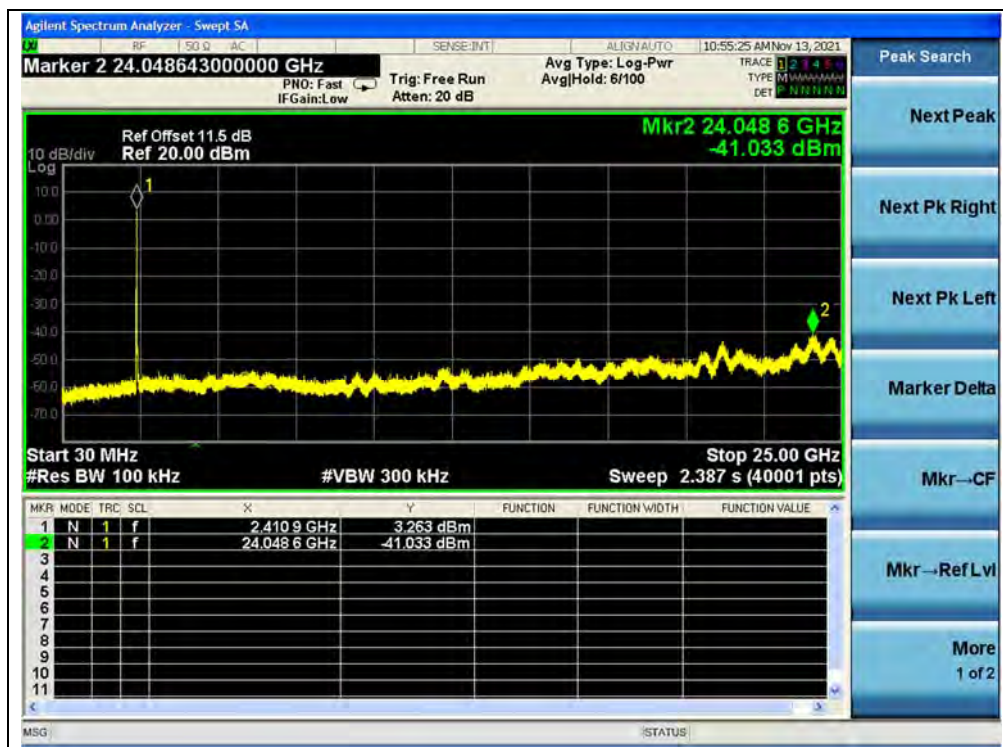


802.11g Mode

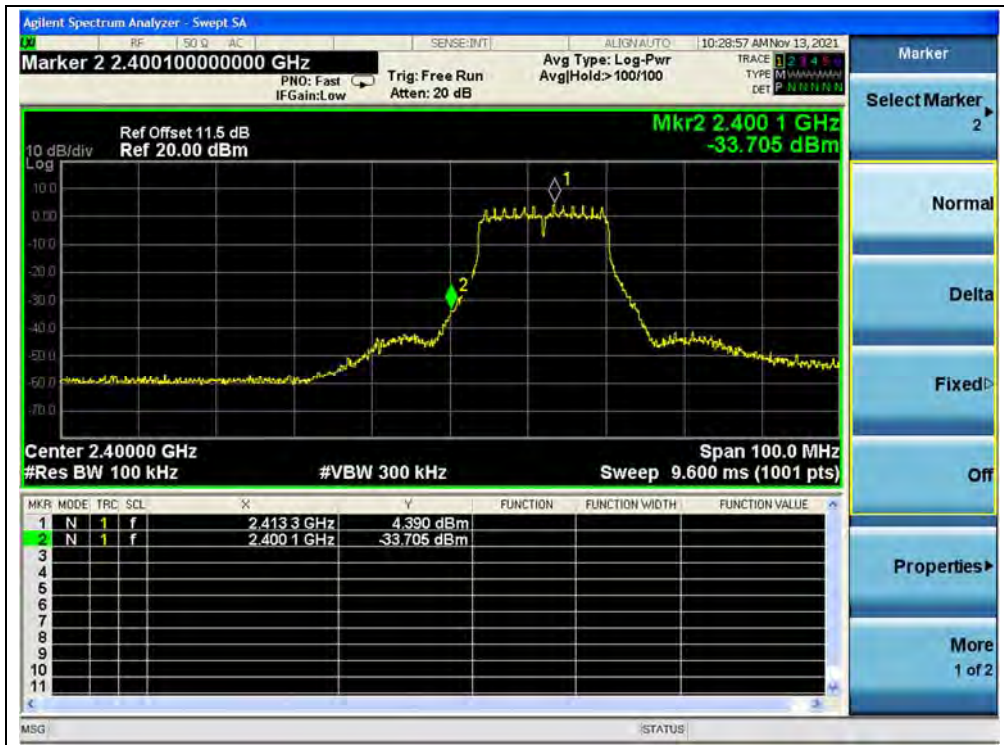
A. Test Verdict:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---------|-----------------|--|---------------|-------------------------|---------|
| | | | Carrier Level | Calculated -20dBc Limit | |
| 1 | 2412 | -41.03 | 3.26 | -16.74 | PASS |
| 6 | 2437 | -40.20 | 0.89 | -19.11 | PASS |
| 11 | 2462 | -40.54 | 0.04 | -19.96 | PASS |

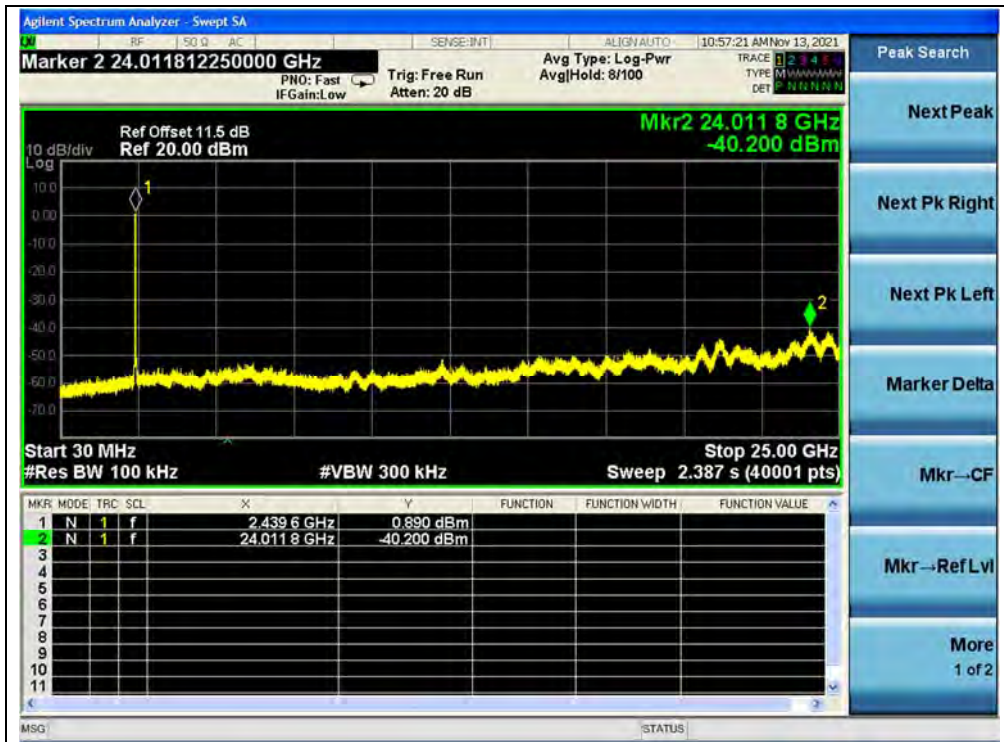
B. Test Plot:



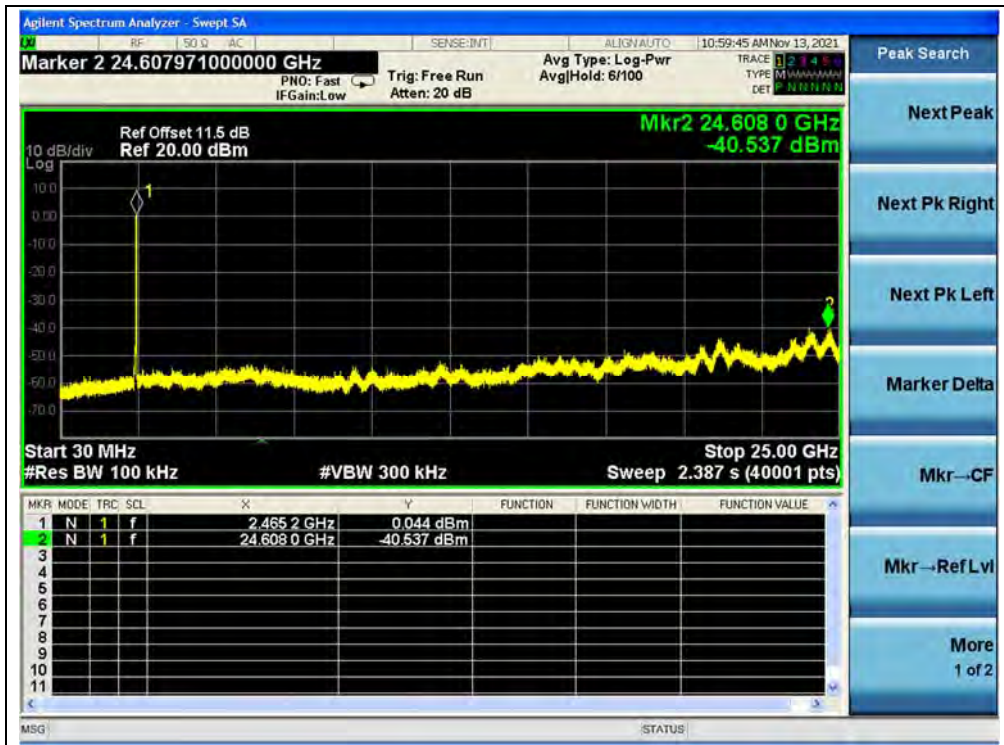
(30MHz to 25GHz, Channel 1, 802.11g)



(Band Edge, Channel 1, 802.11g)



(30MHz to 25GHz, Channel 6, 802.11g)



(30MHz to 25GHz, Channel 11, 802.11g)



(Band Edge, Channel 11, 802.11g)

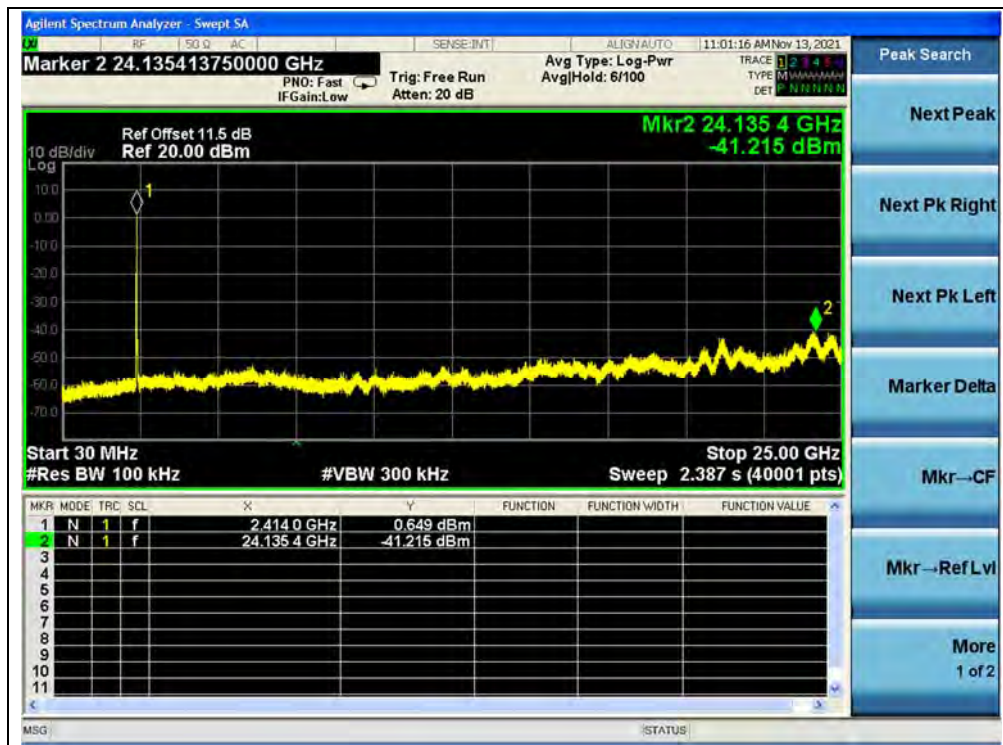


802.11n (HT20) Mode

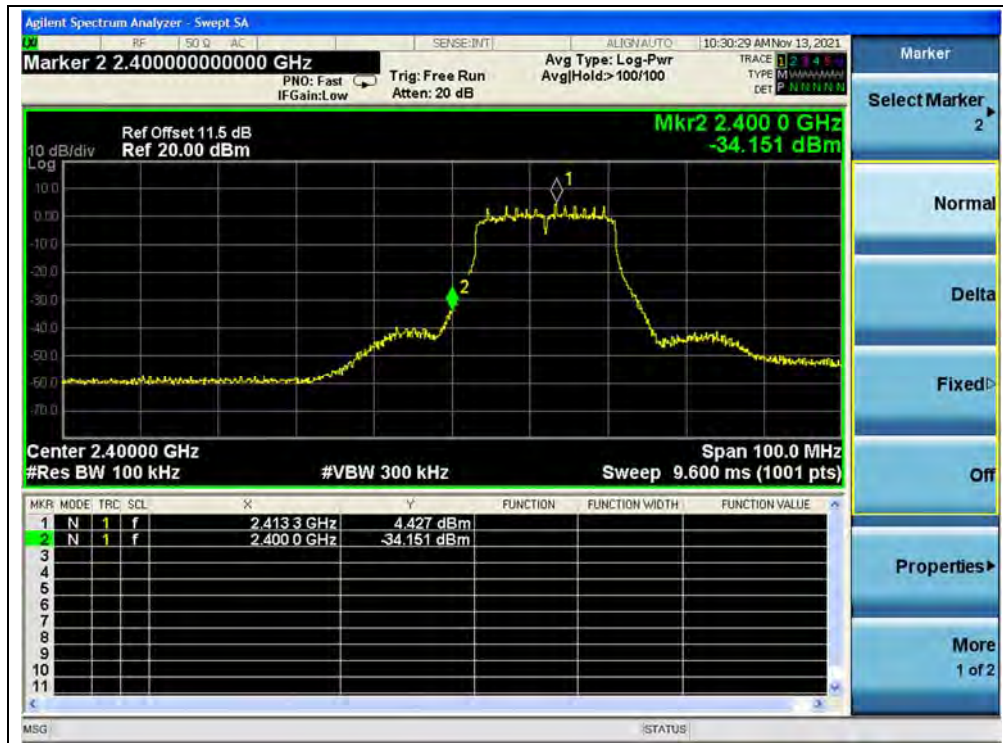
A. Test Verdict:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---------|-----------------|--|---------------|-------------------------|---------|
| | | | Carrier Level | Calculated -20dBc Limit | |
| 1 | 2412 | -41.22 | 0.65 | -19.35 | PASS |
| 6 | 2437 | -40.69 | 1.08 | -18.92 | PASS |
| 11 | 2462 | -41.18 | 0.60 | -19.40 | PASS |

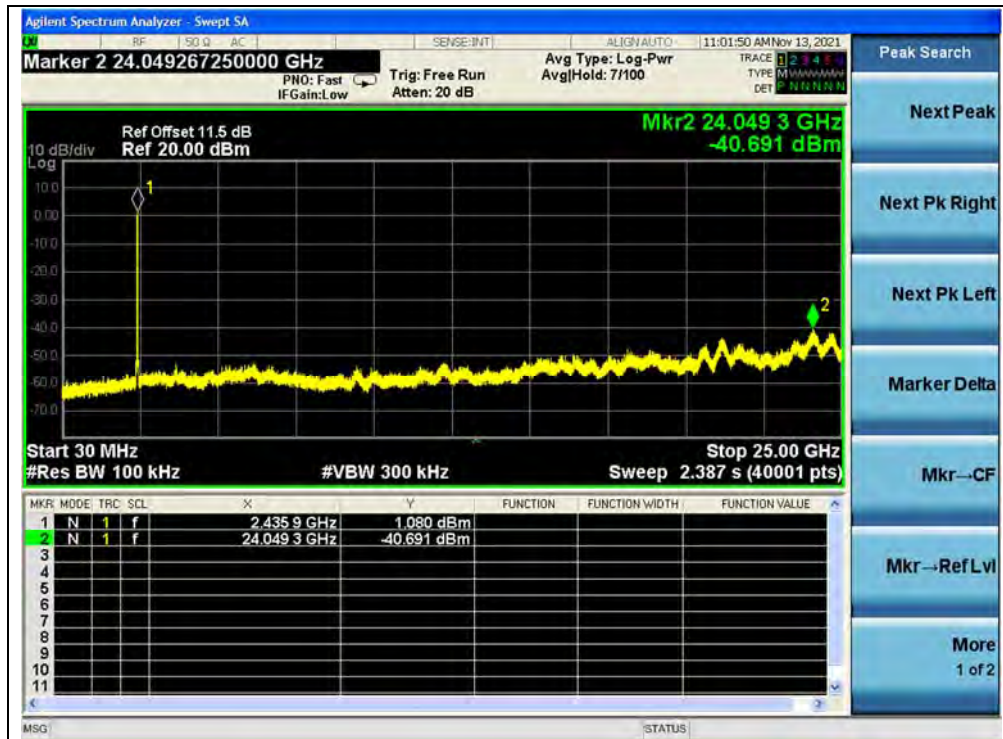
B. Test Plot:



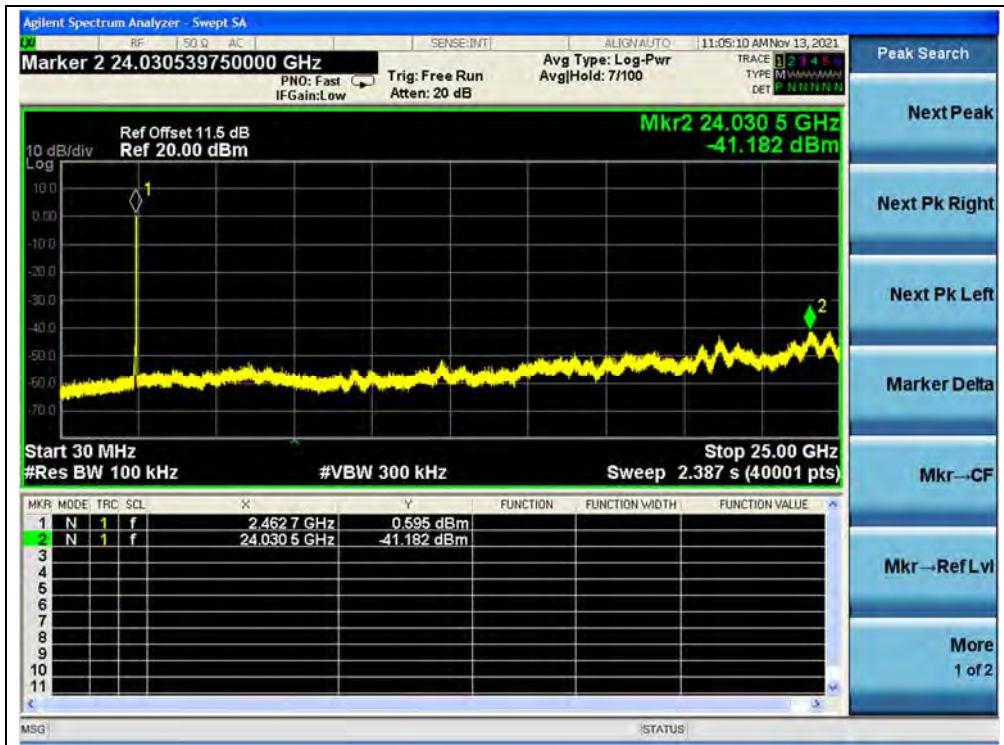
(30MHz to 25GHz, Channel 1, 802.11n (HT20))



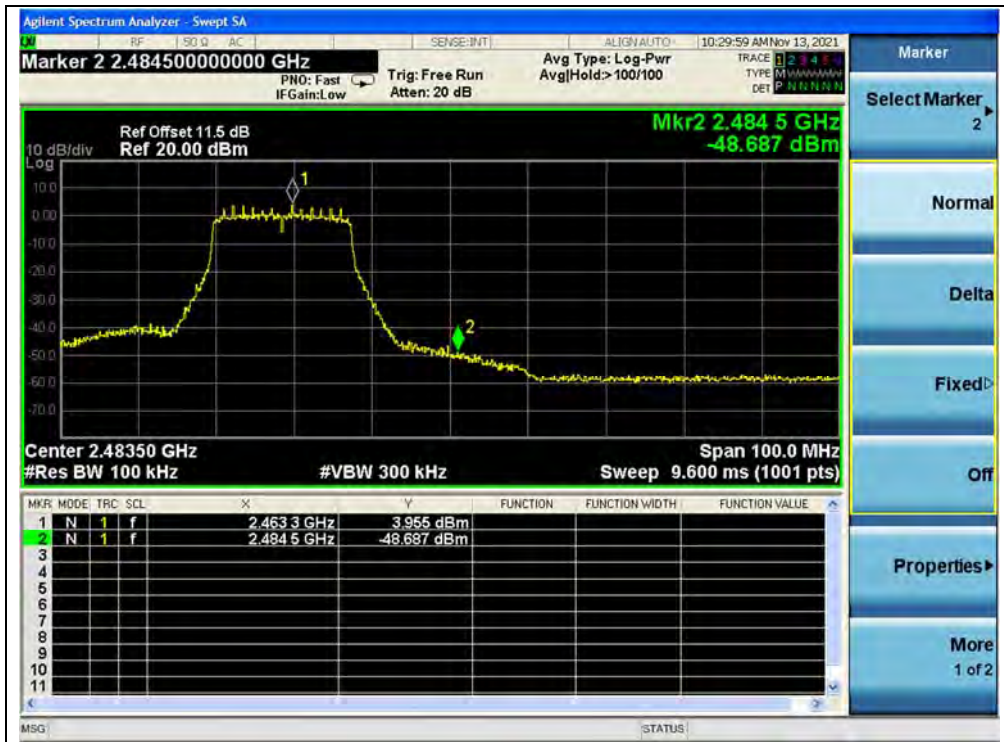
(Band Edge, Channel 1, 802.11n (HT20))



(30MHz to 25GHz, Channel 6, 802.11n (HT20))



(30MHz to 25GHz, Channel 11, 802.11n (HT20))



(Band Edge, Channel 11, 802.11n (HT20))

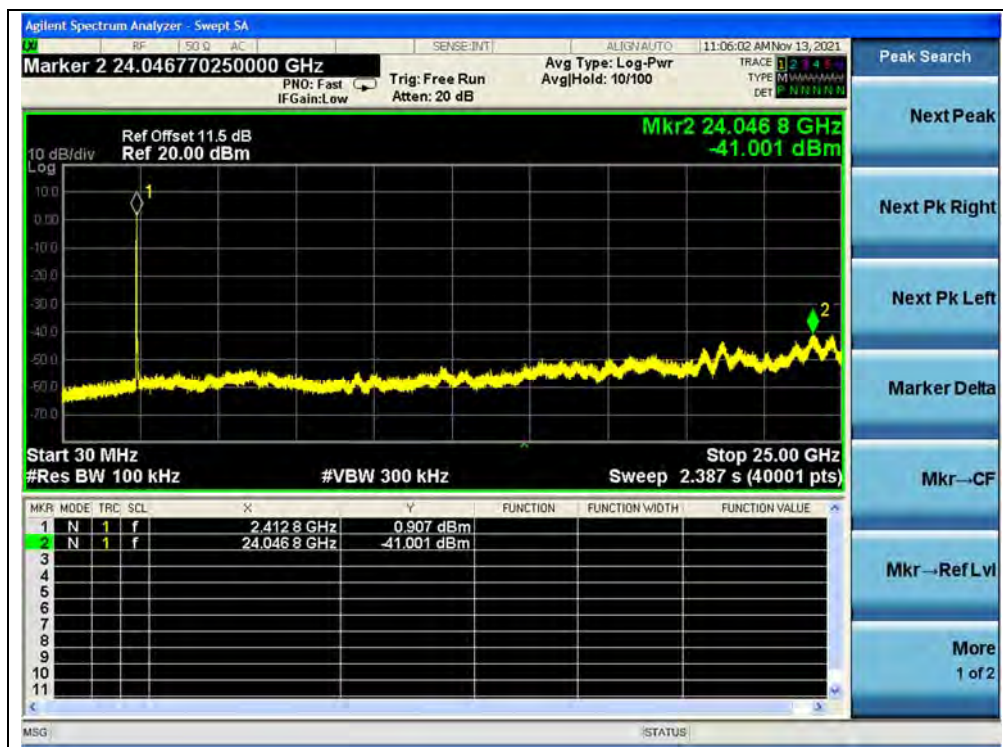


802.11ax (HEW20) Mode

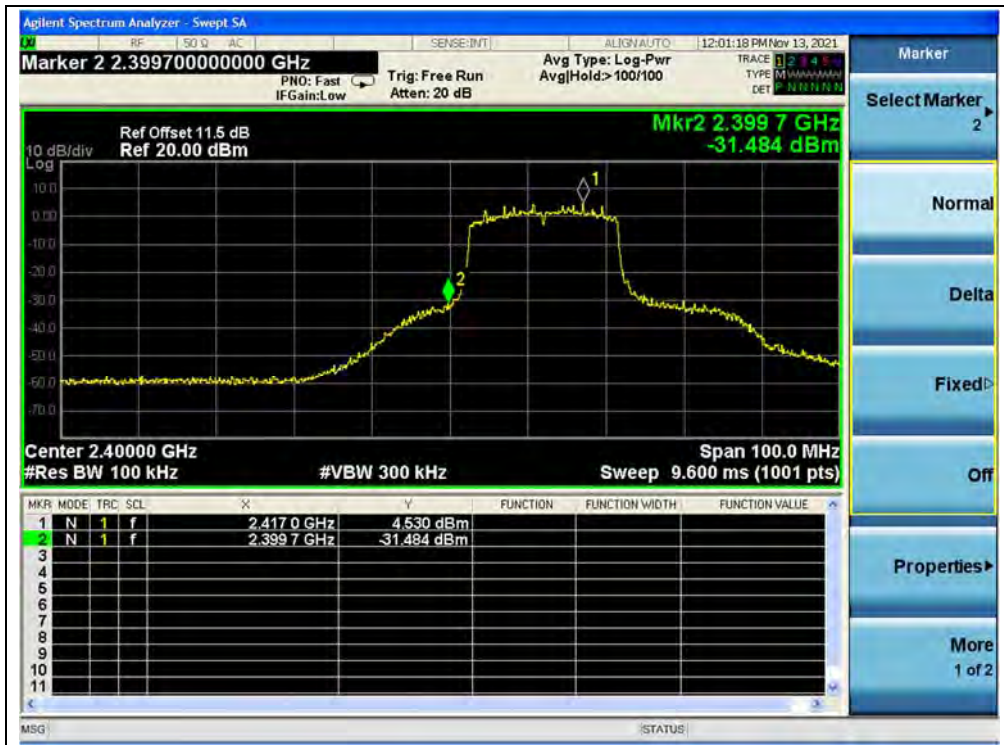
A. Test Verdict:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---------|-----------------|--|---------------|-------------------------|---------|
| | | | Carrier Level | Calculated -20dBc Limit | |
| 1 | 2412 | -41.00 | 0.91 | -19.09 | PASS |
| 6 | 2437 | -40.31 | -0.06 | -20.06 | PASS |
| 11 | 2462 | -39.99 | 2.78 | -17.22 | PASS |

B. Test Plot:



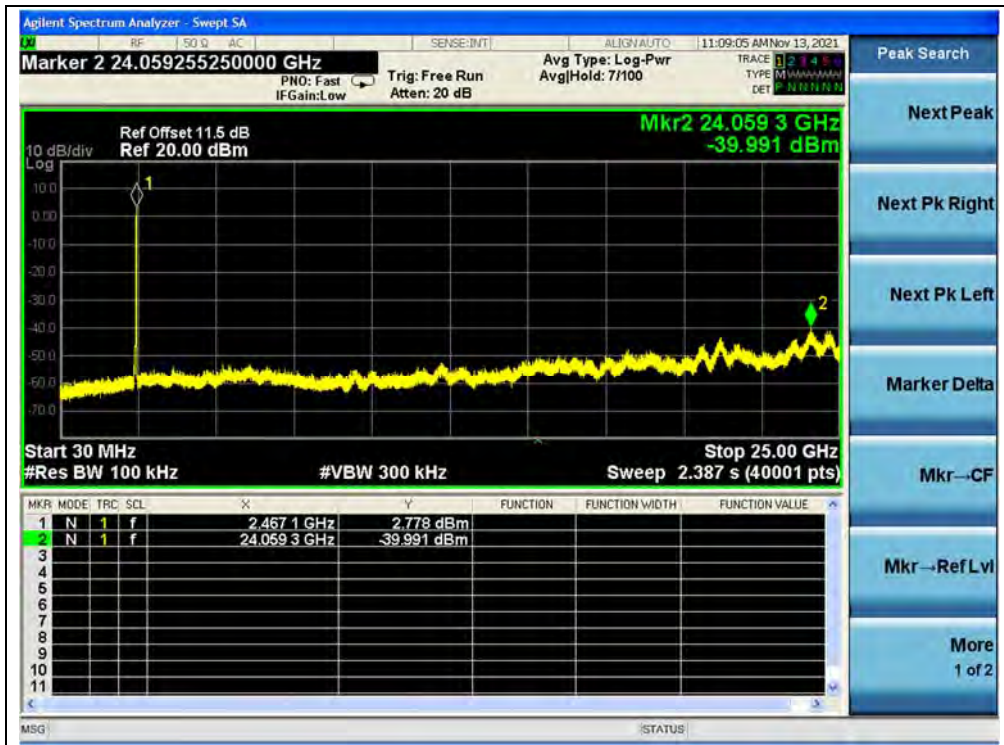
(30MHz to 25GHz, Channel 1, 802.11ax (HEW20))



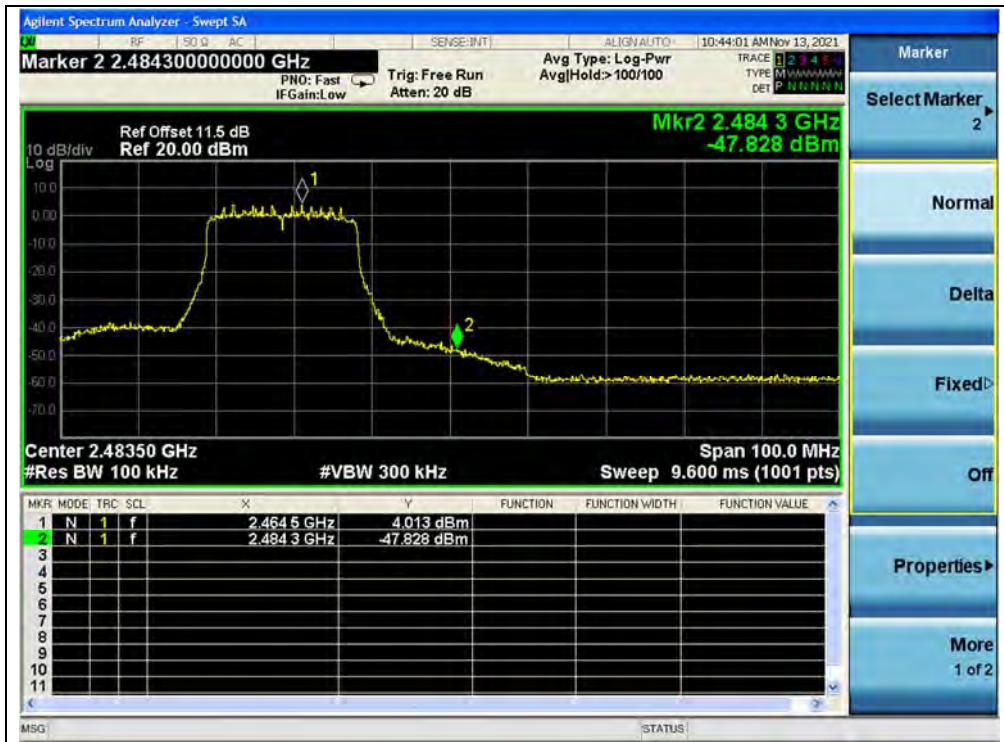
(Band Edge, Channel 1, 802.11ax (HEW20))



(30MHz to 25GHz, Channel 6, 802.11ax (HEW20))



(30MHz to 25GHz, Channel 11, 802.11ax (HEW20))



(Band Edge, Channel 11, 802.11ax (HEW20))

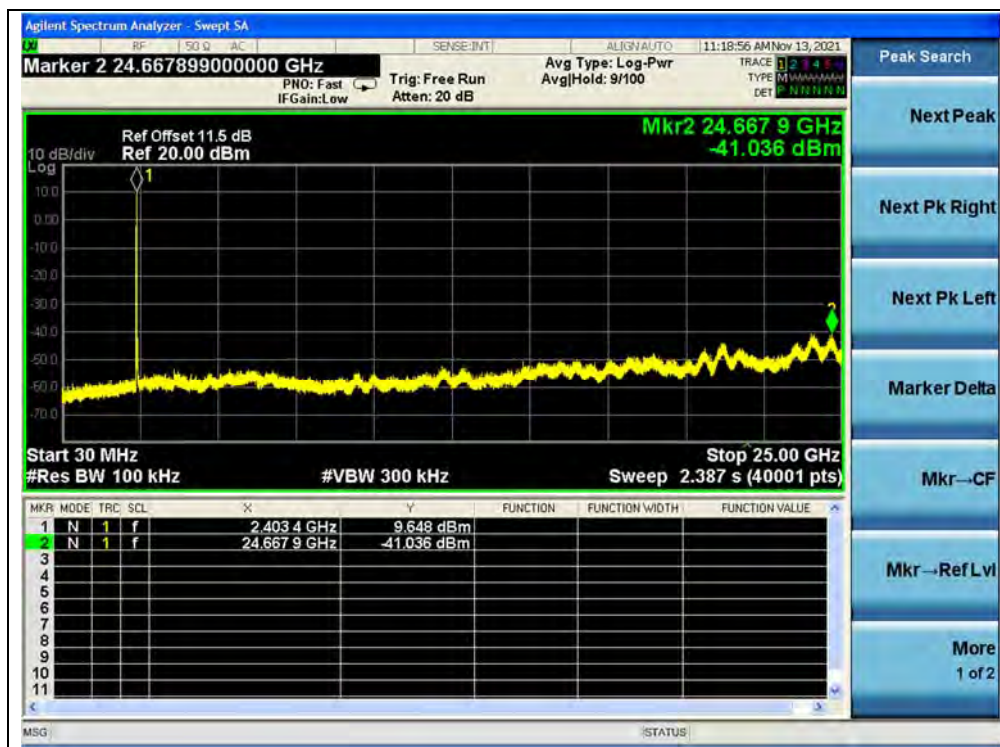


802.11ax (HEW20) RU26 Mode

A. Test Verdict:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---------|-----------------|--|---------------|-------------------------|---------|
| | | | Carrier Level | Calculated -20dBc Limit | |
| 1 | 2412 | -41.04 | 9.65 | -10.35 | PASS |
| 6 | 2437 | -40.66 | 8.65 | -11.35 | PASS |
| 11 | 2462 | -41.45 | 10.27 | -9.73 | PASS |

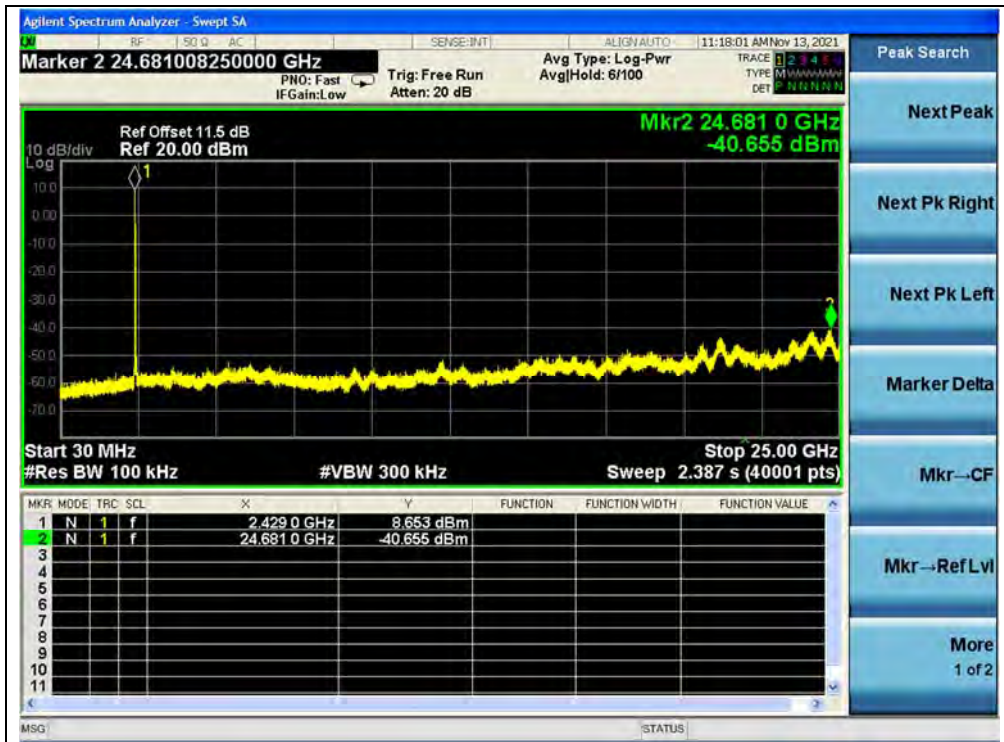
B. Test Plot:



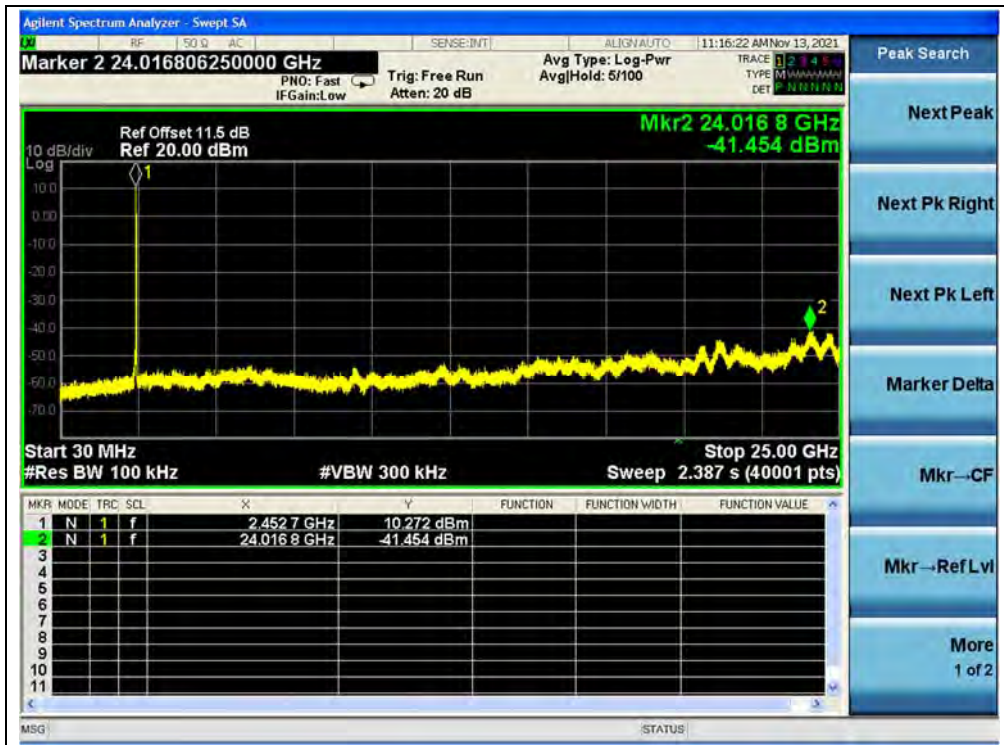
(30MHz to 25GHz, Channel 1, 802.11ax (HEW20) RU26)



(Band Edge, Channel 1, 802.11ax (HEW20) RU26)



(30MHz to 25GHz, Channel 6, 802.11ax (HEW20) RU26)



(30MHz to 25GHz, Channel 11, 802.11ax (HEW20) RU26)



(Band Edge, Channel 11, 802.11ax (HEW20) RU26)

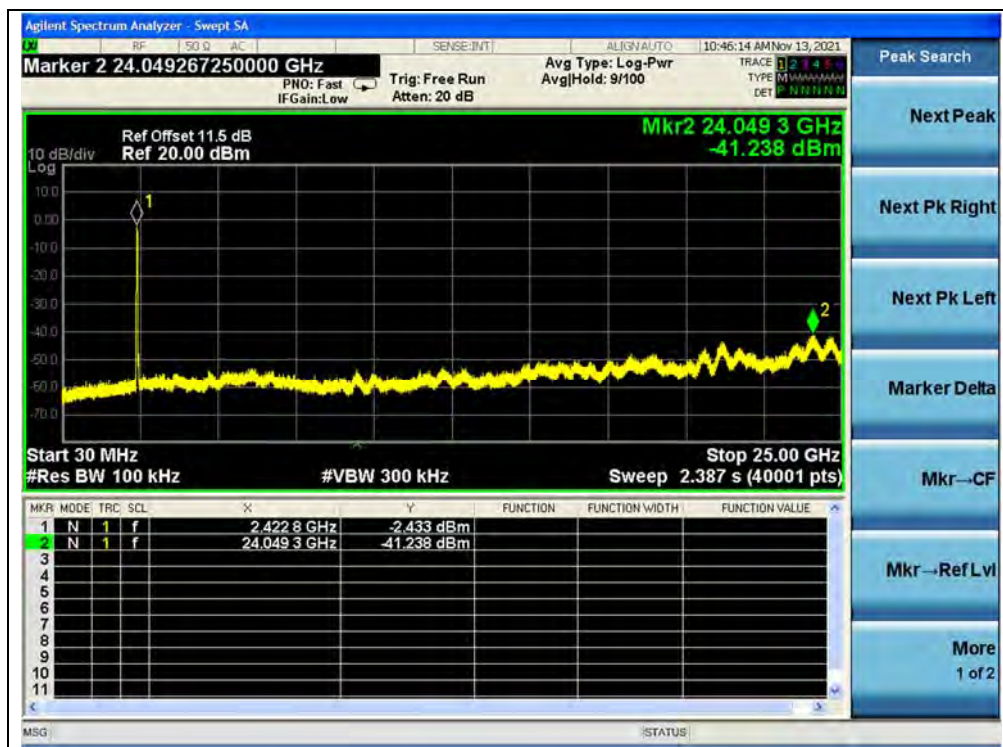


802.11ax (HEW40) Mode

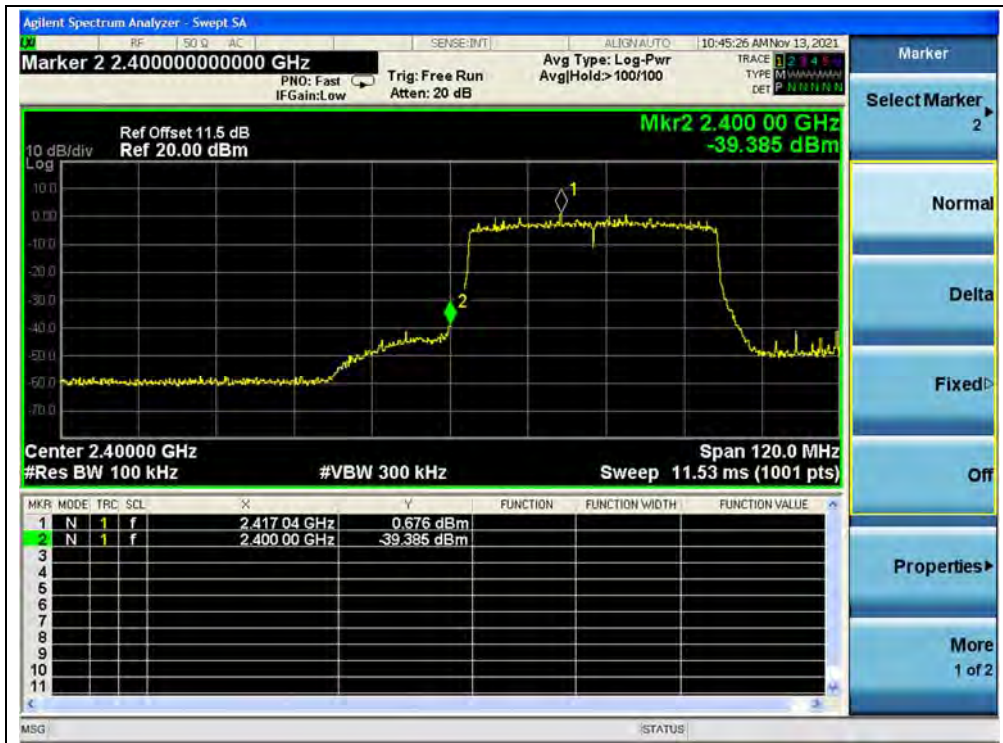
A. Test Verdict:

| Channel | Frequency (MHz) | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
|---------|-----------------|--|---------------|-------------------------|---------|
| | | | Carrier Level | Calculated -20dBc Limit | |
| 3 | 2422 | -41.24 | -2.43 | -22.43 | PASS |
| 6 | 2437 | -39.97 | -2.61 | -22.61 | PASS |
| 9 | 2452 | -40.94 | -2.59 | -22.59 | PASS |

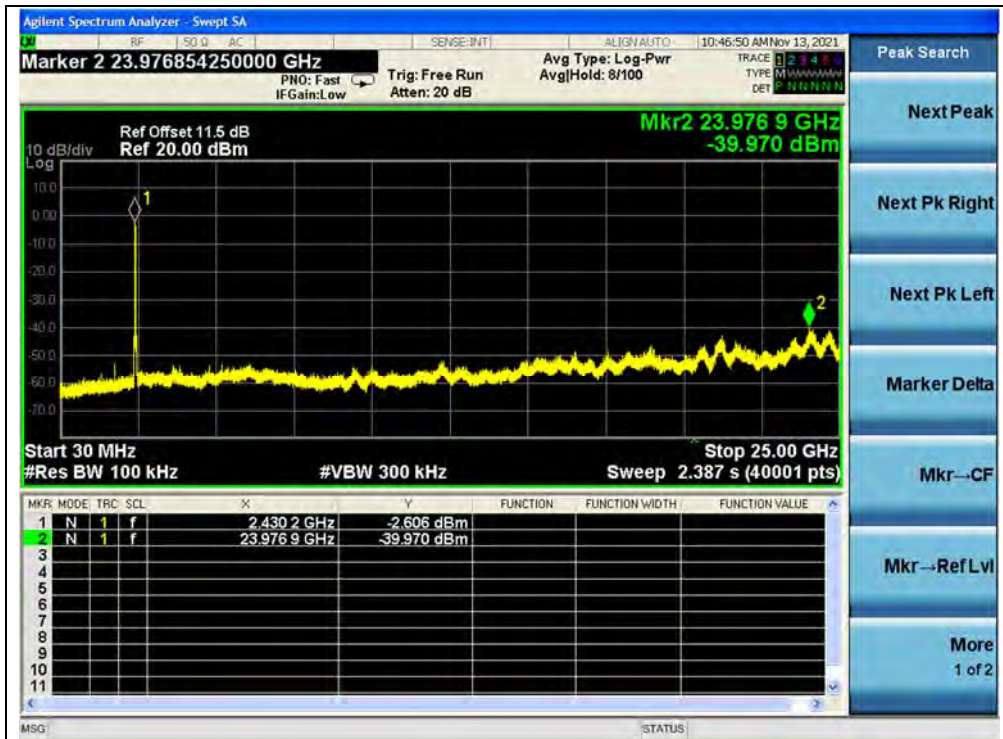
B. Test Plot:



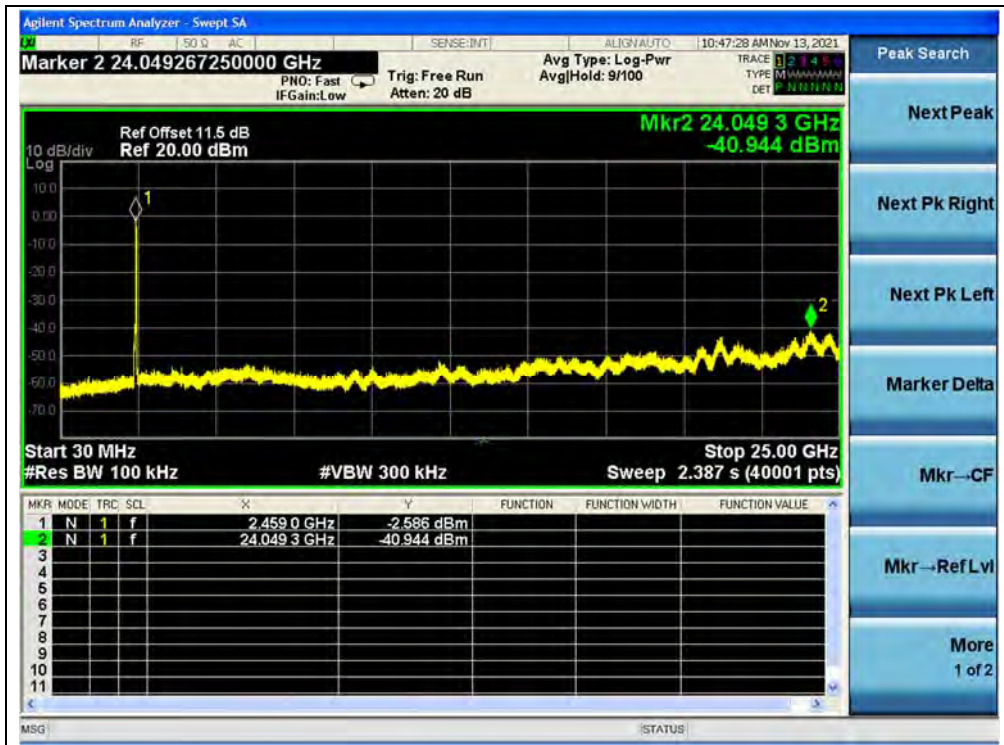
(30MHz to 25GHz, Channel 3, 802.11ax (HEW40))



(Band Edge, Channel 3, 802.11ax (HEW40))



(30MHz to 25GHz, Channel 6, 802.11ax (HEW40))



(30MHz to 25GHz, Channel 9, 802.11ax (HEW40))



(Band Edge, Channel 11, 802.11ax (HEW40))

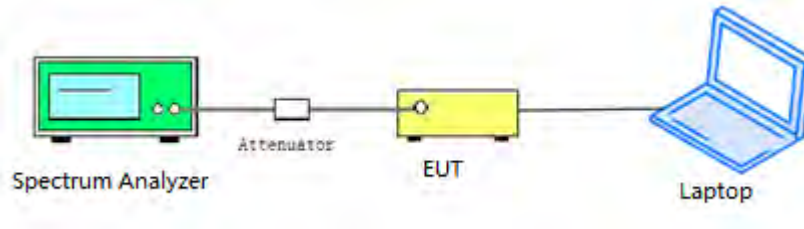
2.6. Power Spectral Density

2.6.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm 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.

2.6.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.6.3. Test Procedure

KDB 558074 Section 8.4 was used in order to prove compliance.



2.6.4. Test Result

802.11b Mode

A. Test Verdict:

| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|-------------------------|--------|------------------|---------|
| | | ANT 0 | ANT 1 | | |
| 1 | 2412 | -7.87 | -9.27 | 8 | PASS |
| 6 | 2437 | -6.65 | -10.15 | 8 | PASS |
| 11 | 2462 | -9.01 | -7.59 | 8 | PASS |

B. Test Plot:



(Channel 1, 802.11b, ANT 0)



(Channel 6, 802.11b, ANT 0)



(Channel 11, 802.11b, ANT 0)



(Channel 1, 802.11b, ANT 1)



(Channel 6, 802.11b, ANT 1)



(Channel 11, 802.11b, ANT 1)

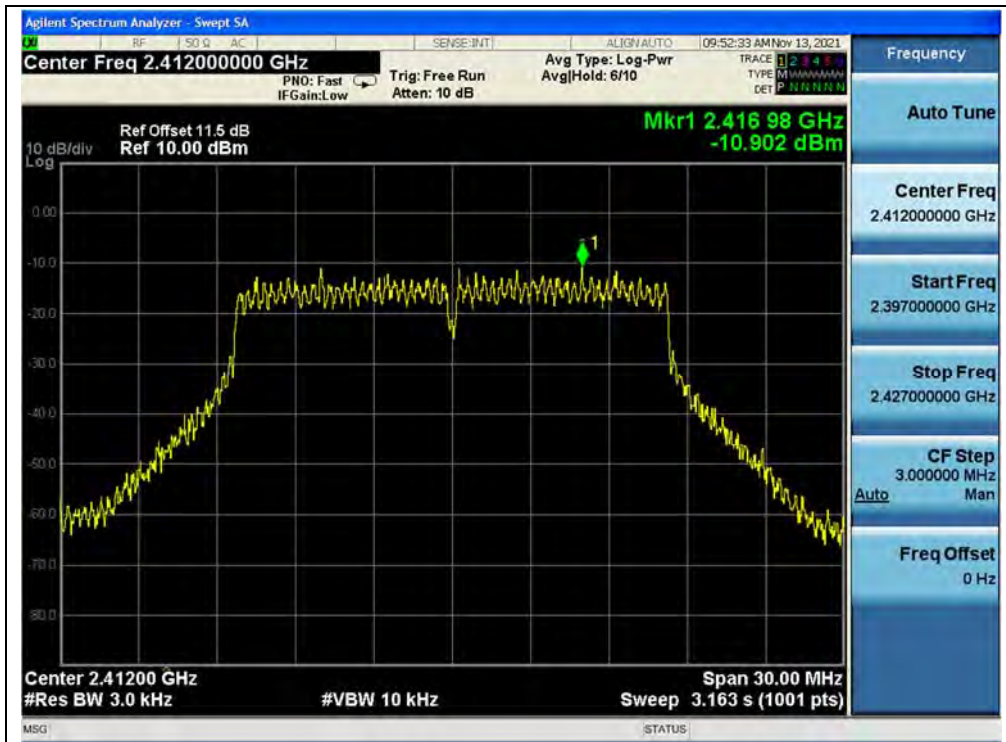


802.11g Mode

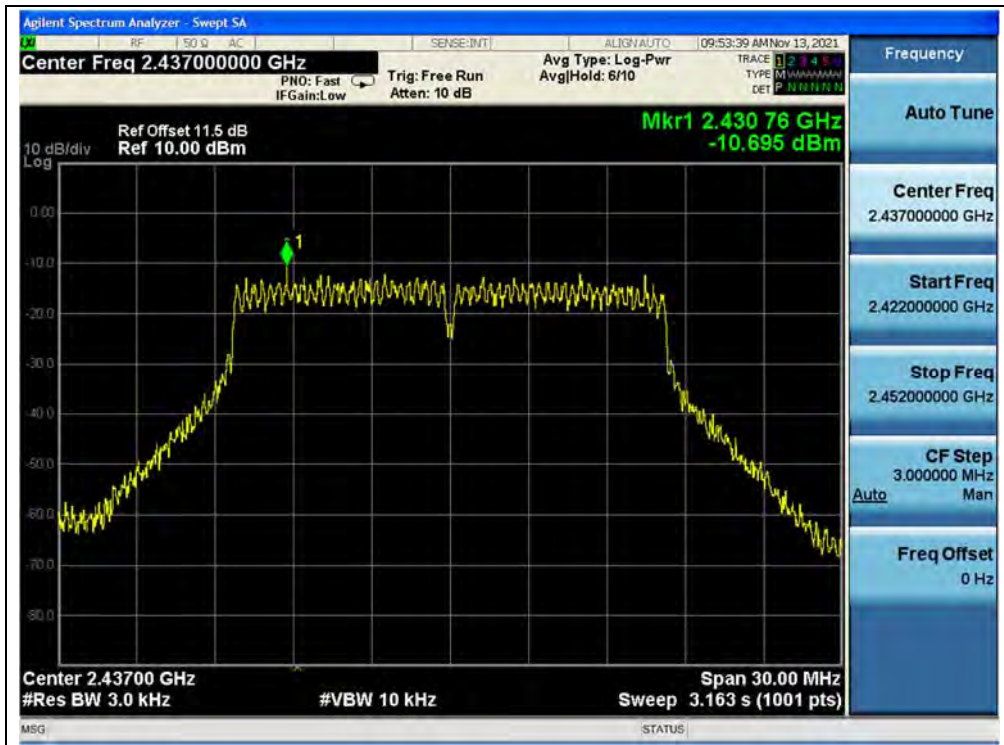
A. Test Verdict:

| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|-------------------------|--------|------------------|---------|
| | | ANT 0 | ANT 1 | | |
| 1 | 2412 | -10.90 | -11.53 | 8 | PASS |
| 6 | 2437 | -10.70 | -12.98 | 8 | PASS |
| 11 | 2462 | -10.52 | -9.16 | 8 | PASS |

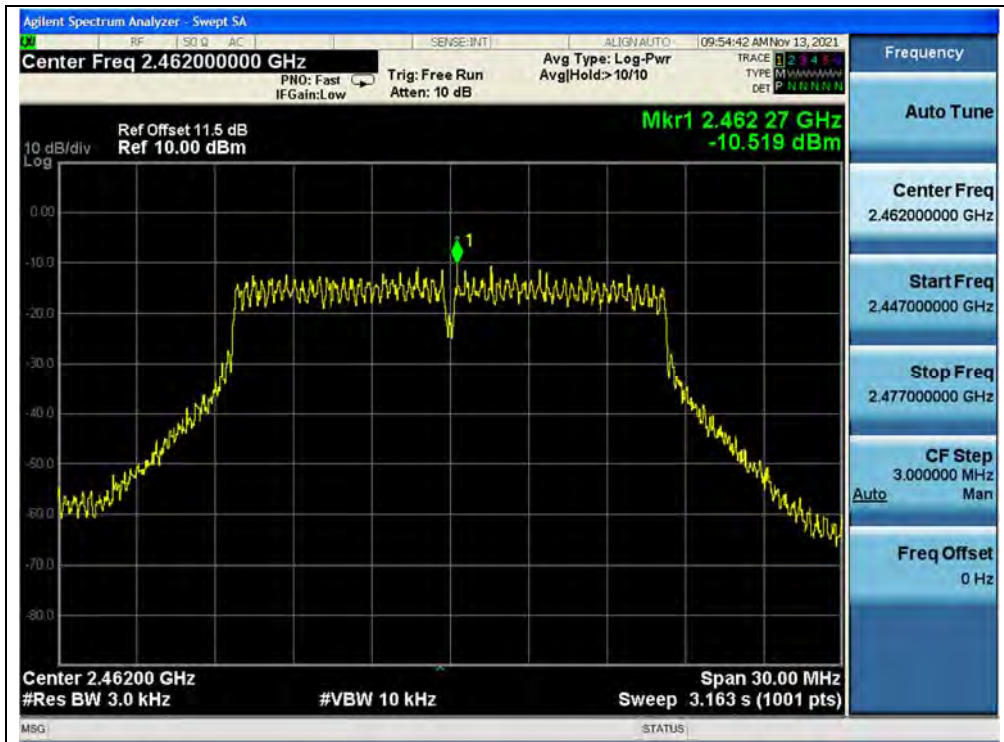
B. Test Plot:



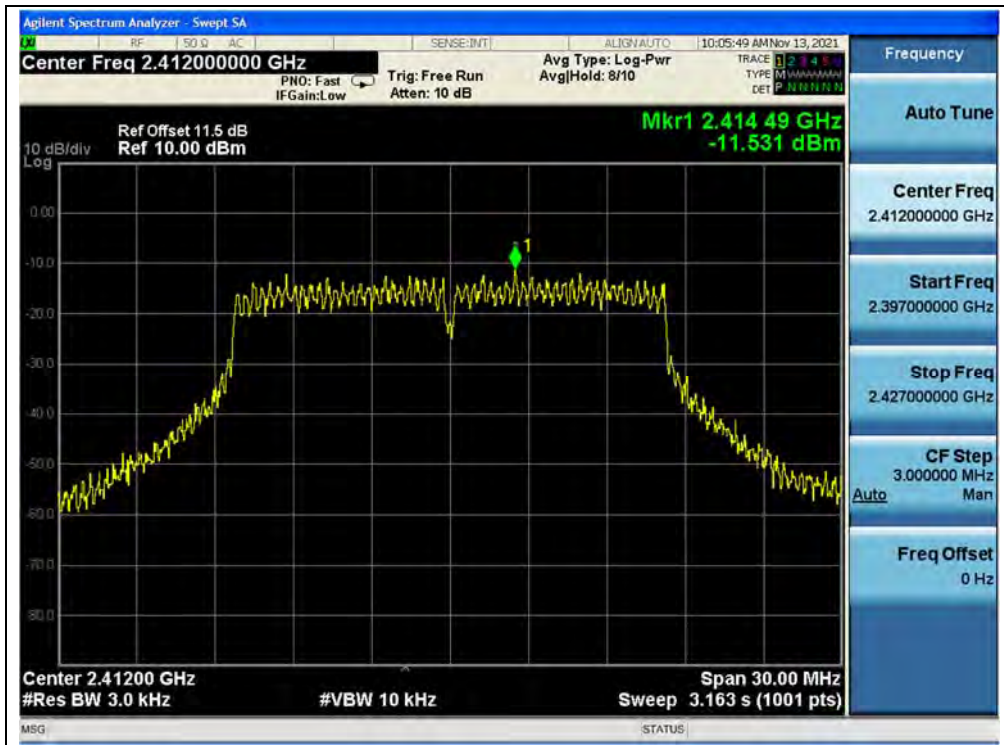
(Channel 1, 802.11g, ANT 0)



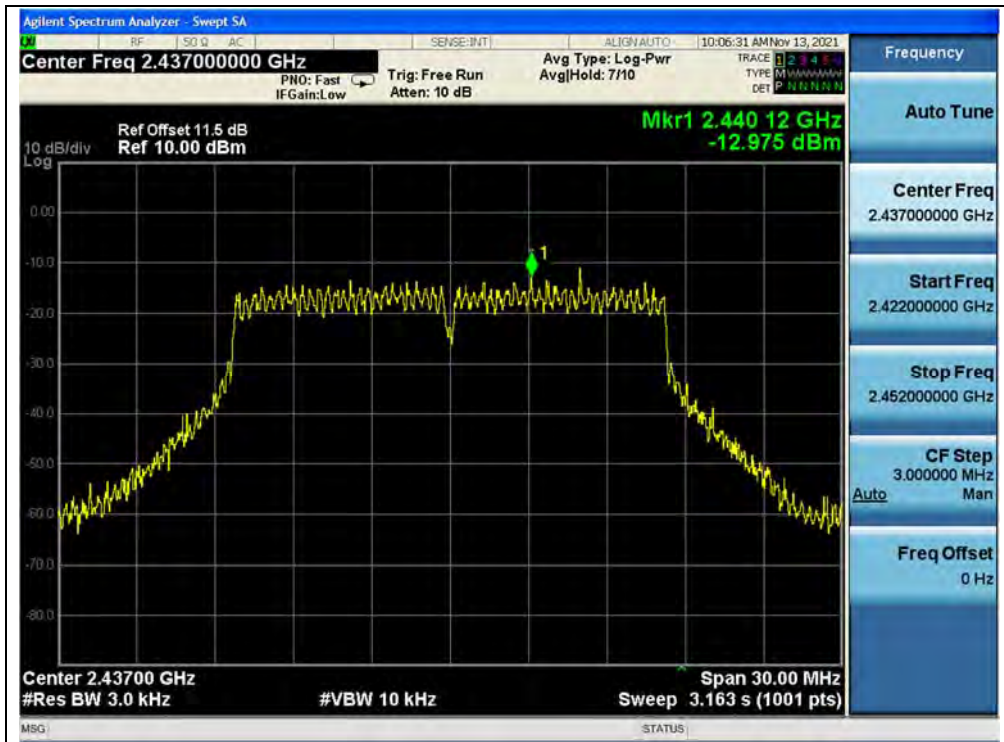
(Channel 6, 802.11g, ANT 0)



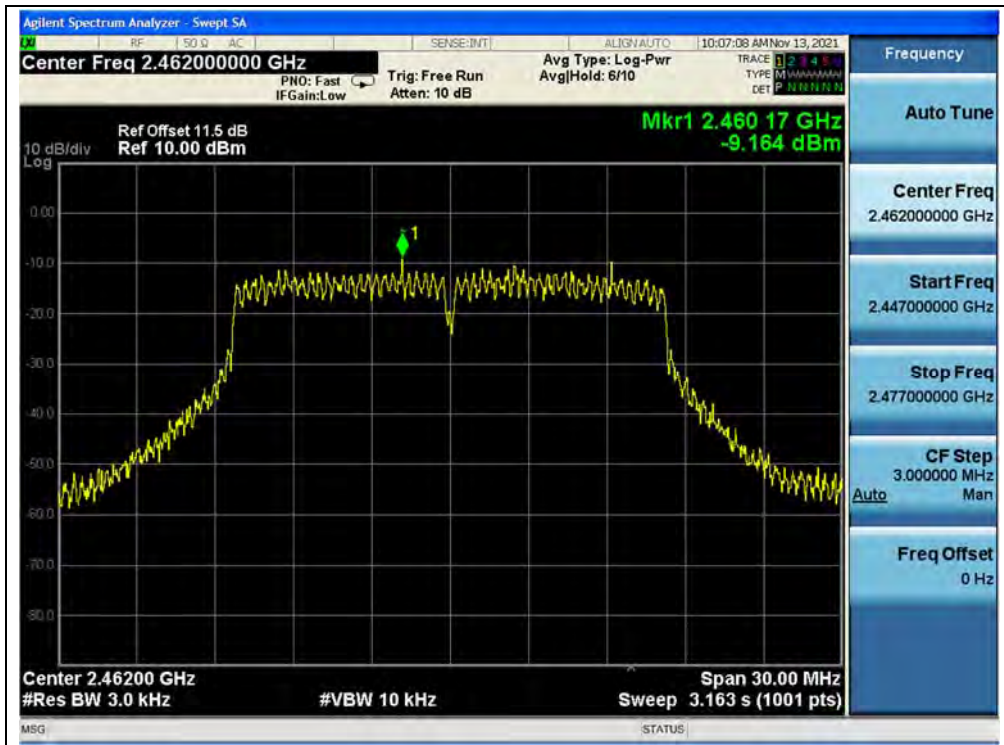
(Channel 11, 802.11g, ANT 0)



(Channel 1, 802.11g, ANT 1)



(Channel 6, 802.11g, ANT 1)



(Channel 11, 802.11g, ANT 1)



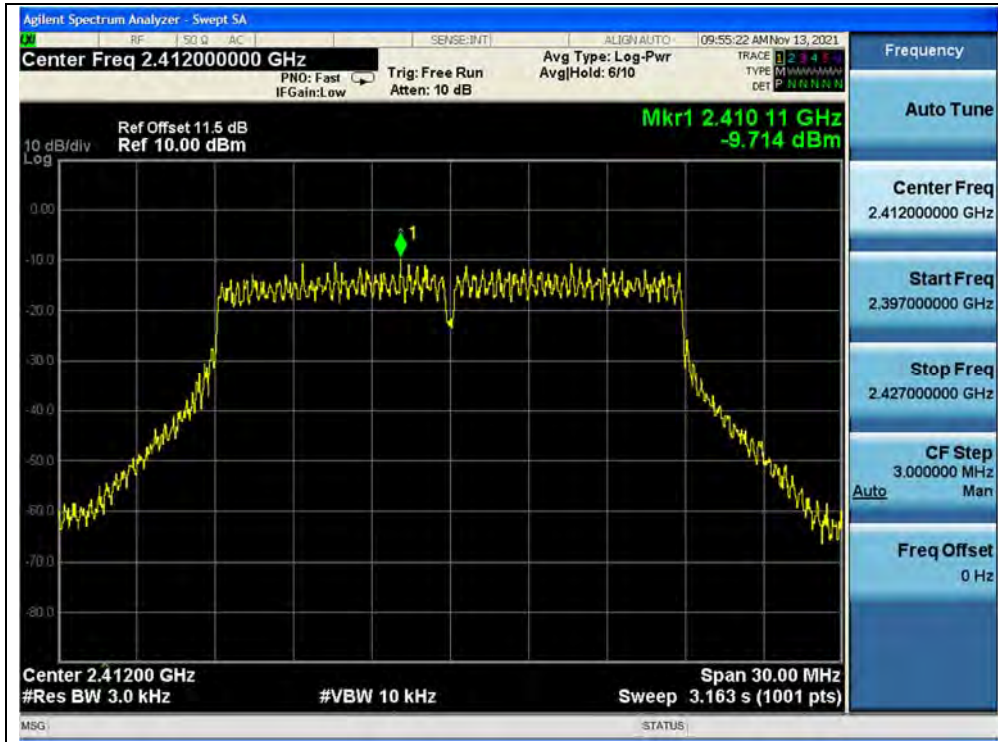
802.11n (HT20) Mode

A.Test Verdict:

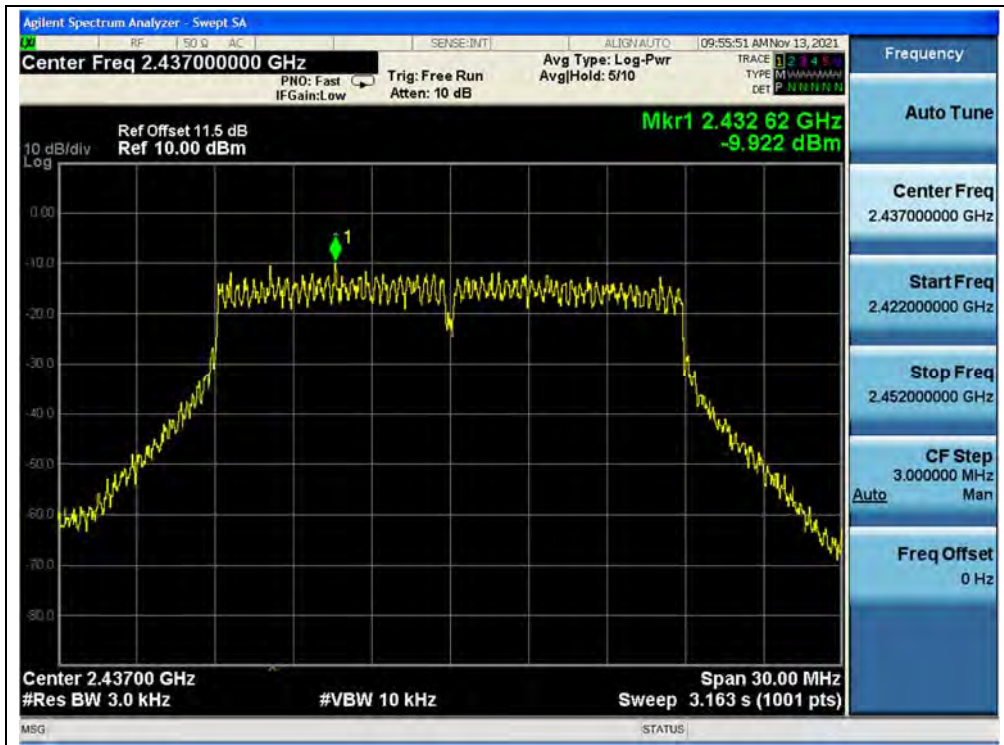
| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|-------------------------|--------|----------------------|------------------|---------|
| | | ANT 0 | ANT 1 | | | |
| 1 | 2412 | -9.71 | -10.75 | -7.19 | 8 | PASS |
| 6 | 2437 | -9.92 | -10.98 | -7.41 | 8 | PASS |
| 11 | 2462 | -10.89 | -9.81 | -7.31 | 8 | PASS |

Note: Directional gain = 0.50dBi +10log(2) =3.51dBi<6dBi, so the power density limit is 8 dBm/3kHz.

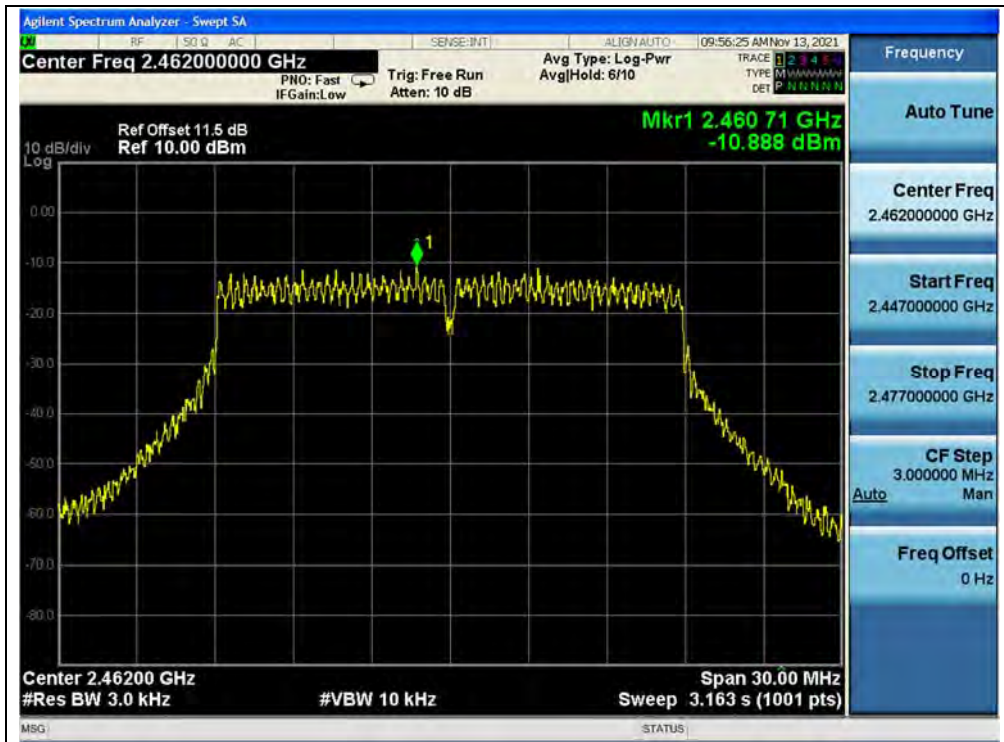
B.Test Plot:



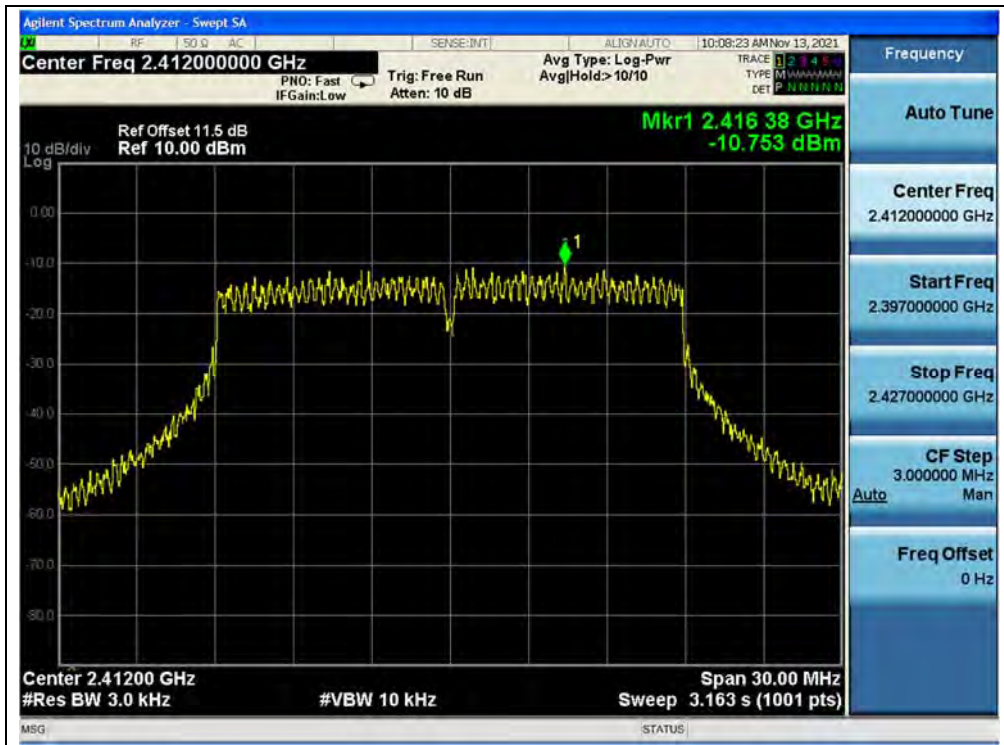
(Channel 1, 802.11n (HT20), ANT 0)



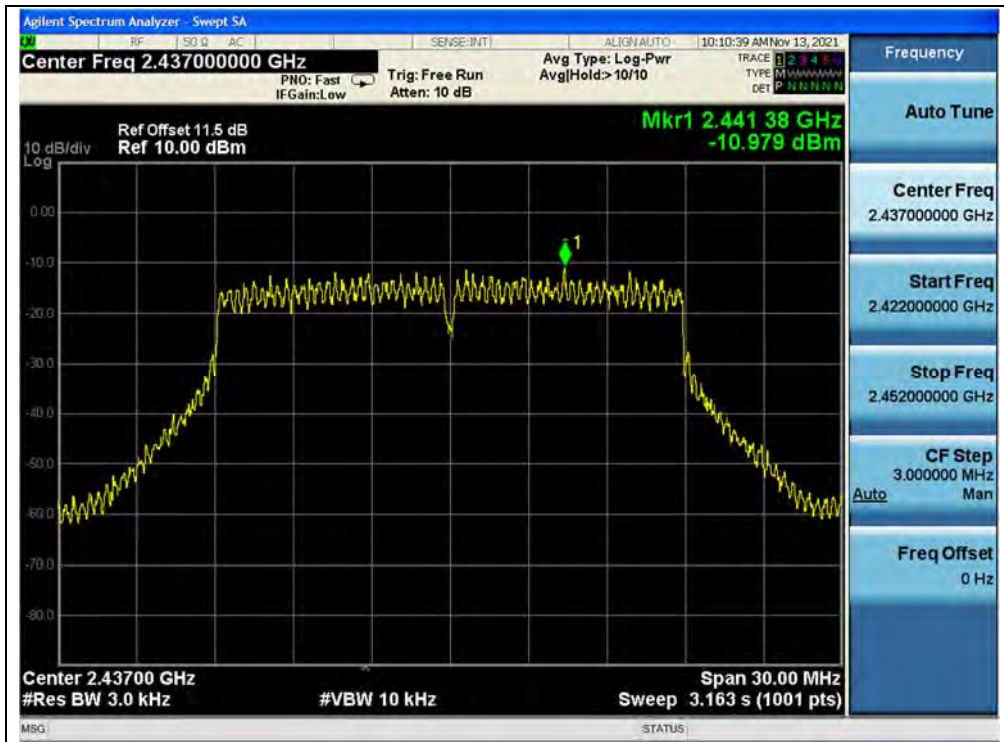
(Channel 6, 802.11n (HT20), ANT 0)



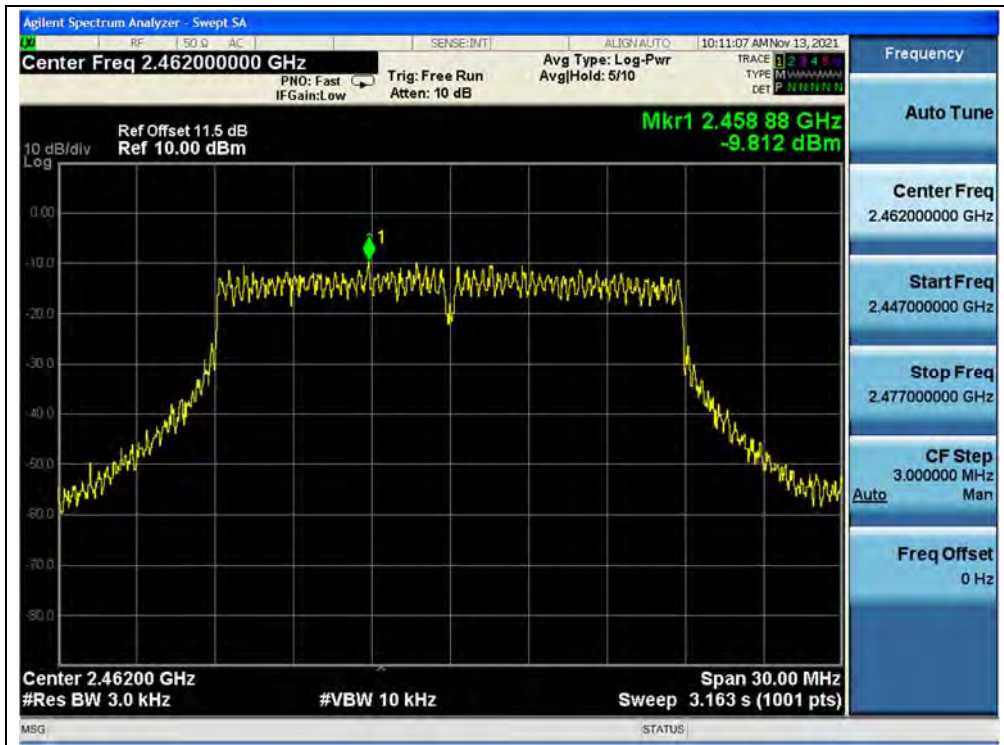
(Channel 11, 802.11n (HT20), ANT 0)



(Channel 1, 802.11n (HT20), ANT 1)



(Channel 6, 802.11n (HT20), ANT 1)



(Channel 11, 802.11n (HT20), ANT 1)



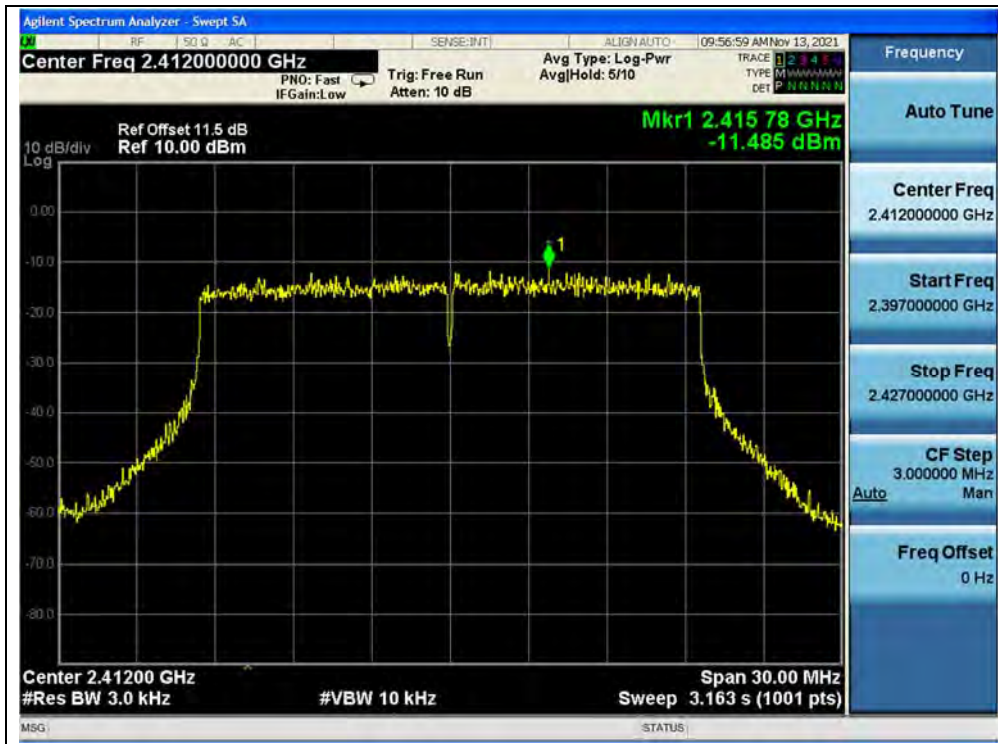
802.11ax (HEW20) Mode

A. Test Verdict:

| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|-------------------------|--------|----------------------|------------------|---------|
| | | ANT 0 | ANT 1 | | | |
| 1 | 2412 | -11.49 | -12.28 | -8.86 | 8 | PASS |
| 6 | 2437 | -11.48 | -12.94 | -9.14 | 8 | PASS |
| 11 | 2462 | -11.17 | -9.83 | -7.44 | 8 | PASS |

Note: Directional gain = $0.50\text{dBi} + 10\log(2) = 3.51\text{dBi} < 6\text{dBi}$, so the power density limit is 8 dBm/3kHz.

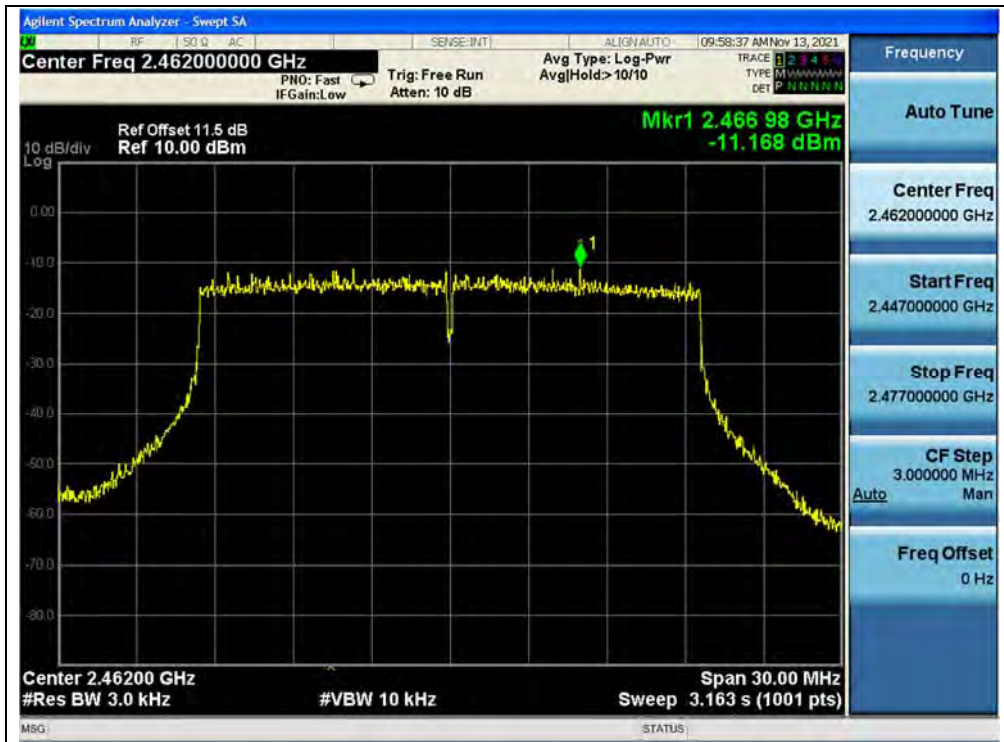
B. Test Plot:



(Channel 1, 802.11ax (HEW20), ANT 0)



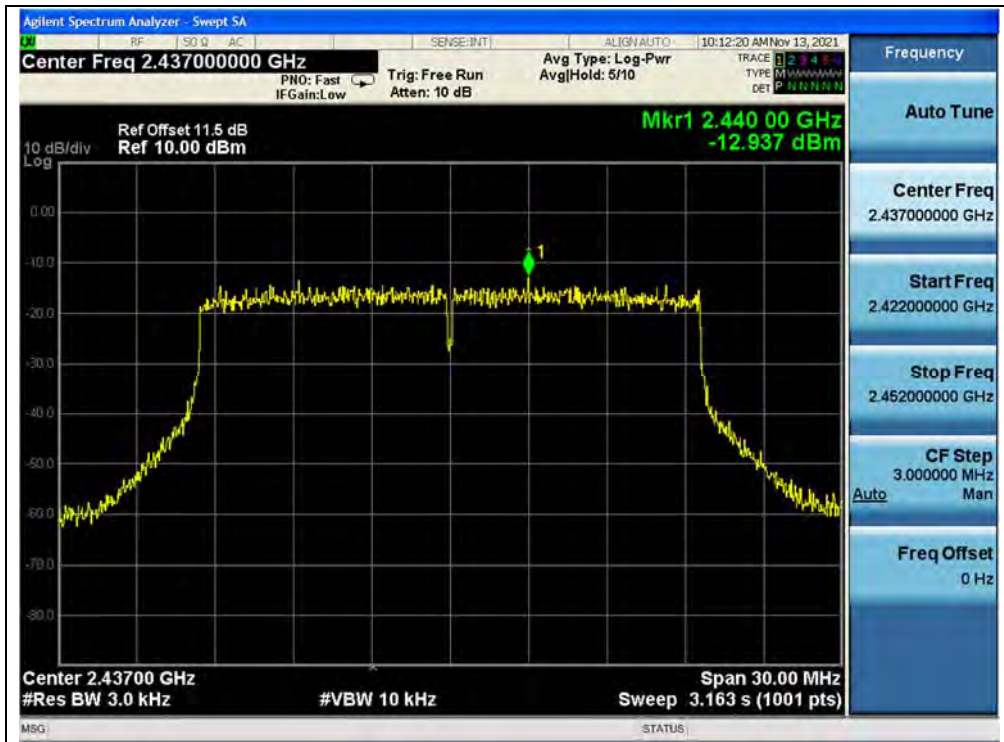
(Channel 6, 802.11ax (HEW20), ANT 0)



(Channel 11, 802.11ax (HEW20), ANT 0)



(Channel 1, 802.11ax (HEW20), ANT 1)



(Channel 6, 802.11ax (HEW20), ANT 1)



(Channel 11, 802.11ax (HEW20), ANT 1)



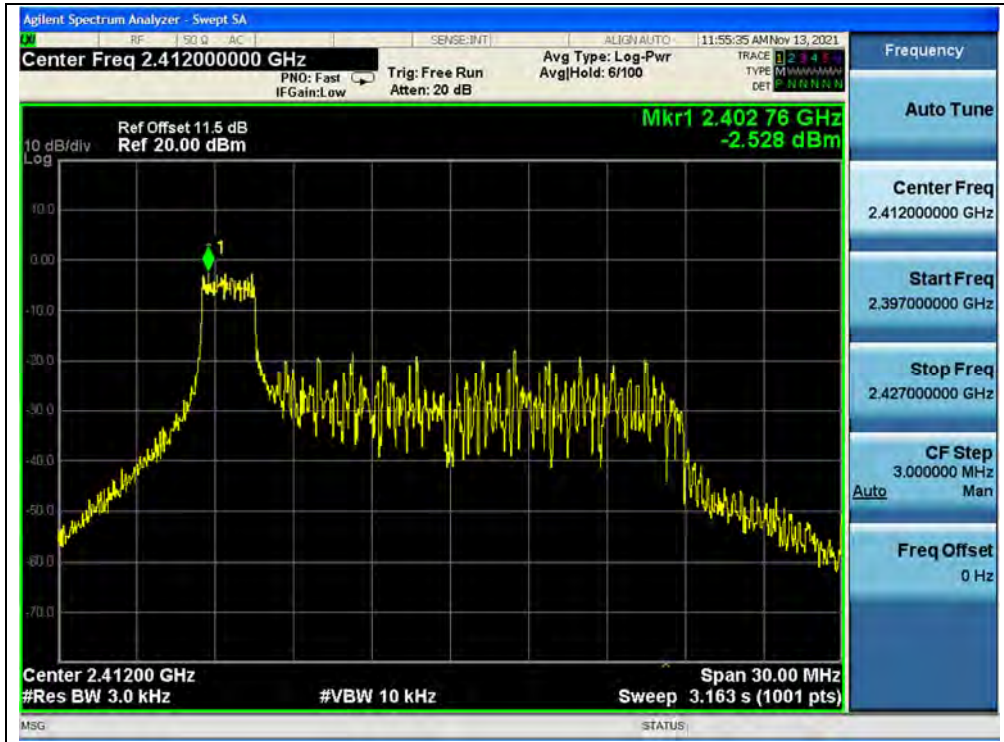
802.11ax (HEW20) RU26 Mode

A.Test Verdict:

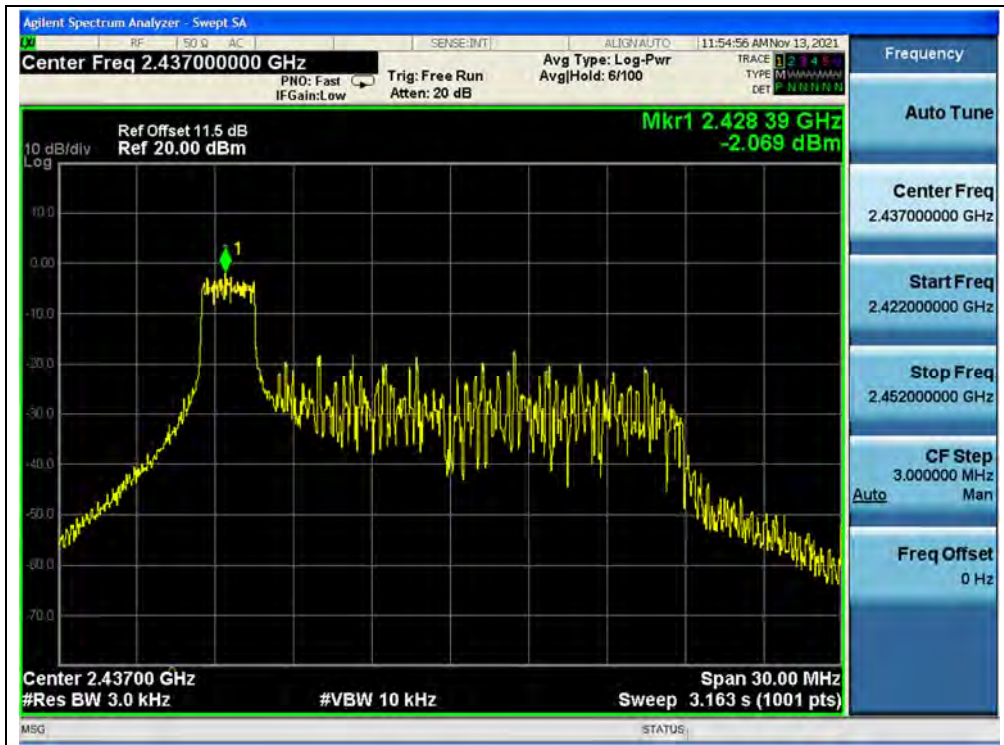
| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|-------------------------|-------|----------------------|------------------|---------|
| | | ANT 0 | ANT 1 | | | |
| 1 | 2412 | -2.53 | -3.87 | -0.14 | 8 | PASS |
| 6 | 2437 | -2.07 | -3.99 | 0.09 | 8 | PASS |
| 11 | 2462 | -2.57 | -0.58 | 1.55 | 8 | PASS |

Note: Directional gain = 0.50dBi +10log(2) =3.51dBi < 6dBi, so the power density limit is 8 dBm/3kHz.

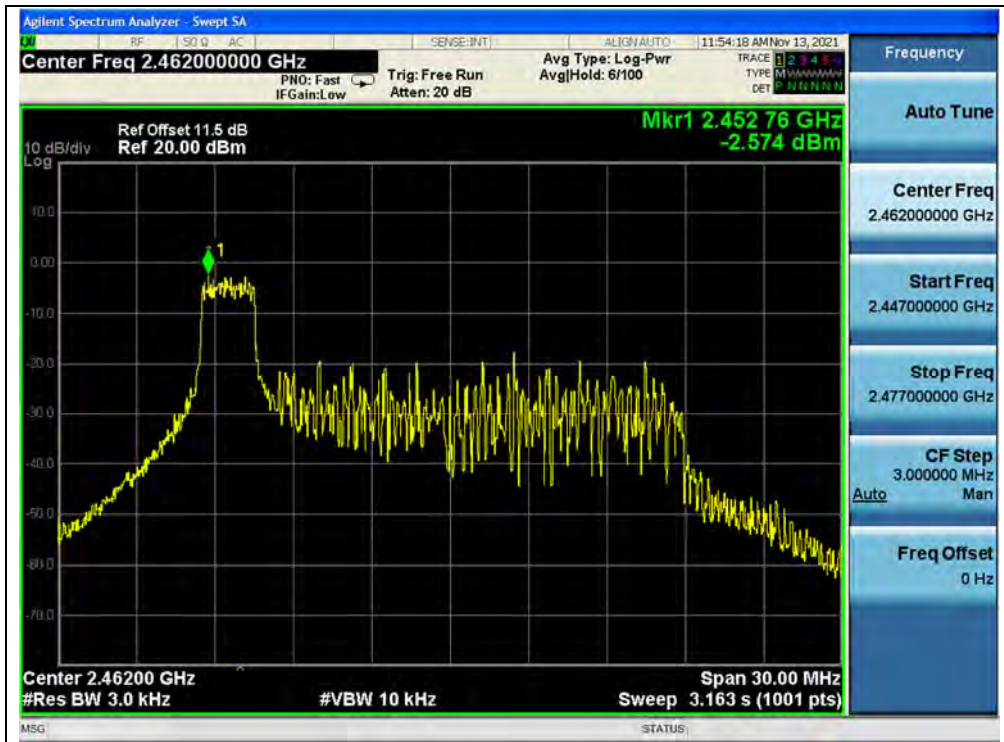
B.Test Plot:



(Channel 1, 802.11ax (HEW20) RU26, ANT 0)



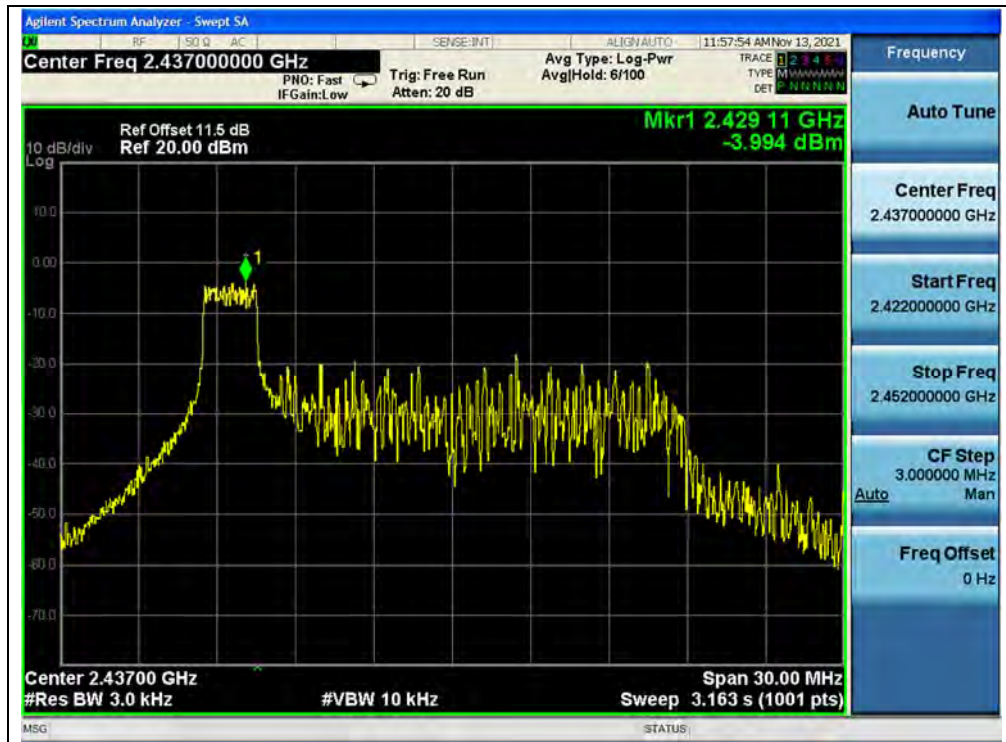
(Channel 6, 802.11ax (HEW20) RU26, ANT 0)



(Channel 11, 802.11ax (HEW20) RU26, ANT 0)



(Channel 1, 802.11ax (HEW20) RU26, ANT 1)



(Channel 6, 802.11ax (HEW20) RU26, ANT 1)



(Channel 11, 802.11ax (HEW20) RU26, ANT 1)



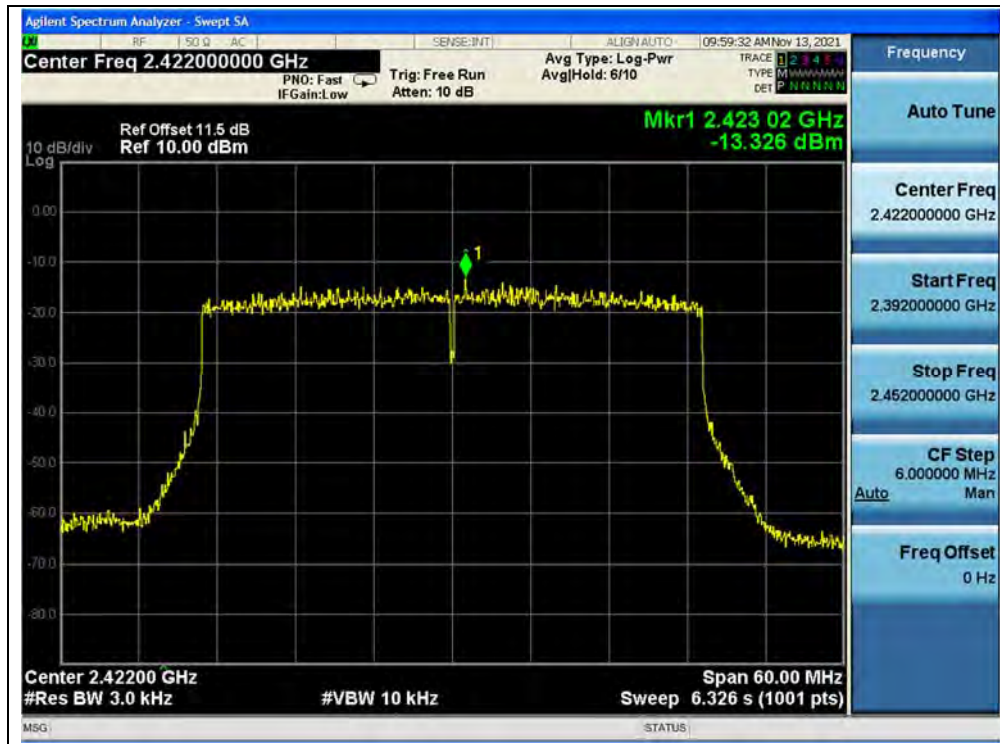
802.11ax (HEW40) Mode

A. Test Verdict:

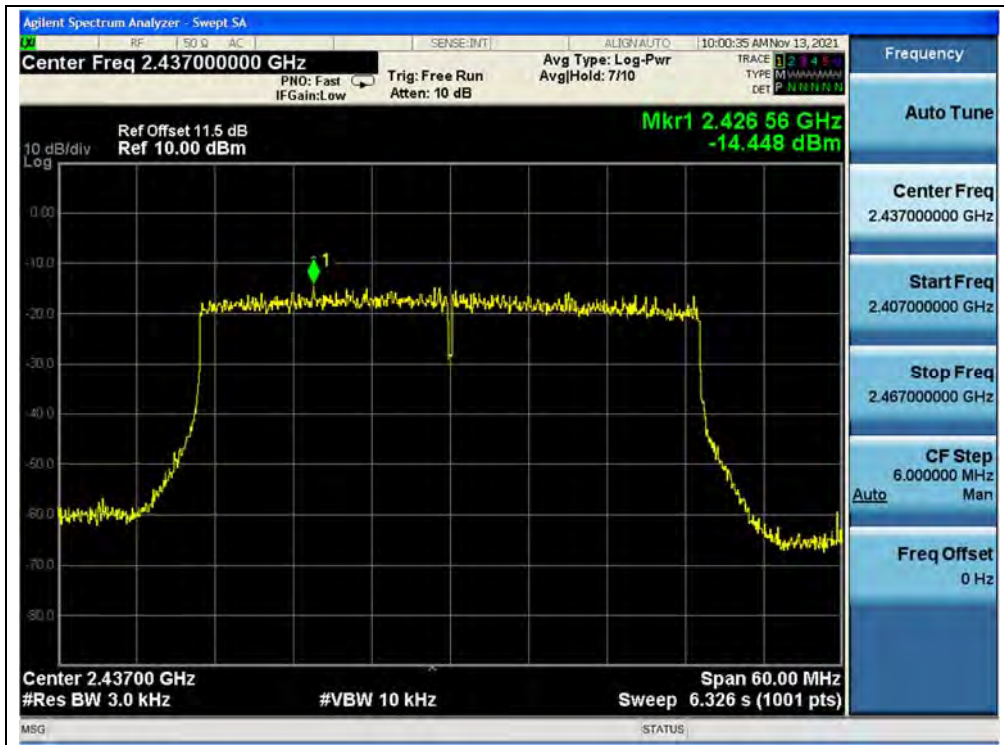
| Channel | Frequency (MHz) | Measured PSD (dBm/3kHz) | | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|---------|-----------------|-------------------------|--------|----------------------|------------------|---------|
| | | ANT 0 | ANT 1 | | | |
| 3 | 2422 | -13.33 | -13.79 | -10.54 | 8 | PASS |
| 6 | 2437 | -14.45 | -16.07 | -12.17 | 8 | PASS |
| 9 | 2452 | -15.42 | -14.63 | -12.00 | 8 | PASS |

Note: Directional gain = 0.50dBi + 10log(2) = 3.51dBi < 6dBi, so the power density limit is 8 dBm/3kHz.

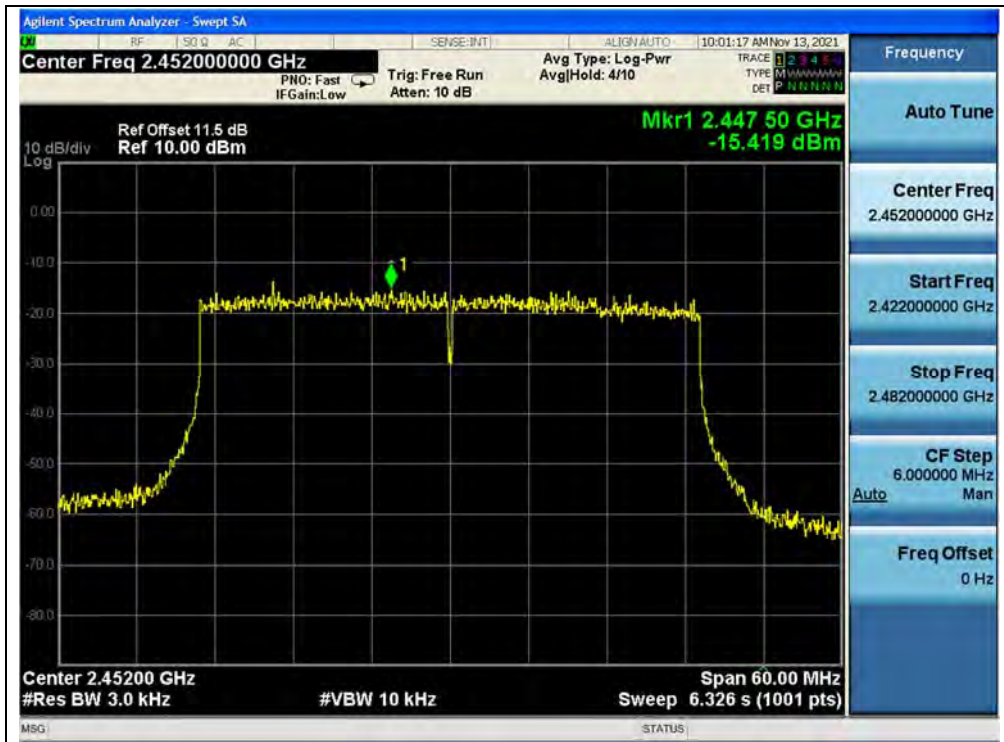
B. Test Plot:



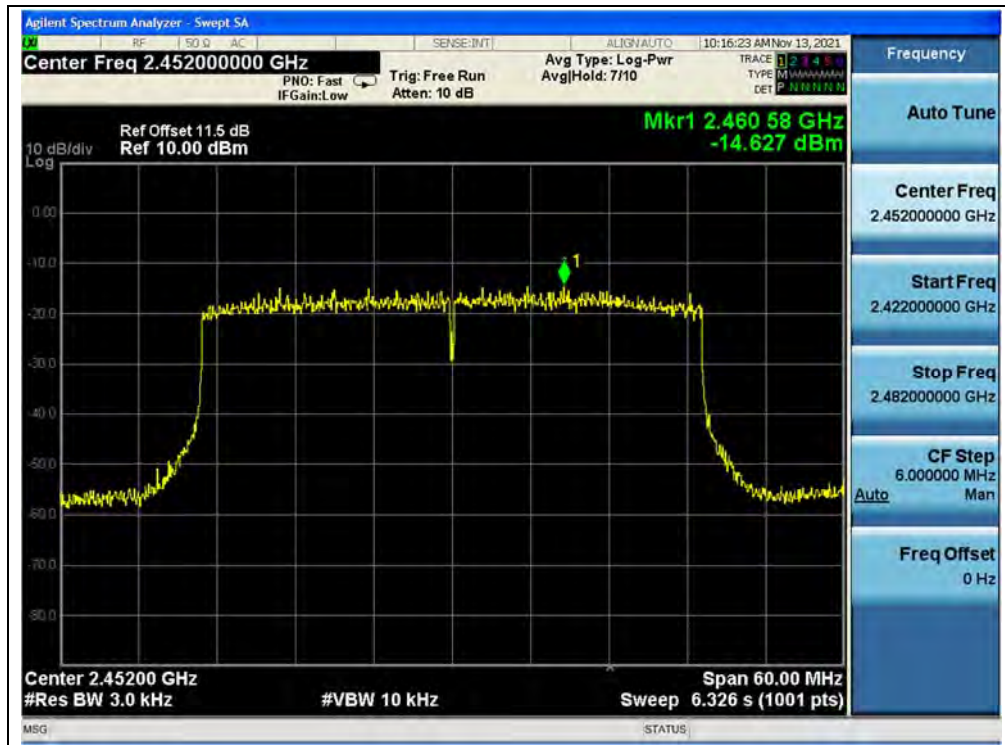
(Channel 3, 802.11ax (HEW40), ANT 0)



(Channel 6, 802.11ax (HEW40), ANT 0)



(Channel 9, 802.11ax (HEW40), ANT 0)



(Channel 9, 802.11ax (HEW40), ANT 1)

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

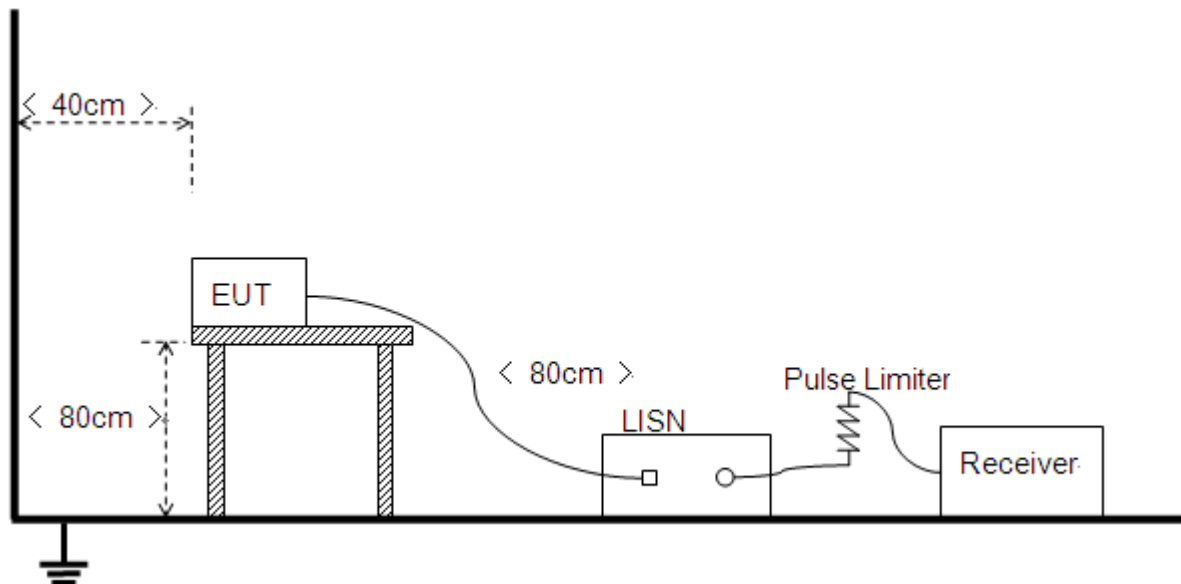
| Frequency Range (MHz) | Conducted Limit (dB μ V) | |
|-----------------------|------------------------------|----------|
| | Quai-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.



2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+ Adapter + Headset+ WIFI TX

Test Voltage: AC 120V/60Hz

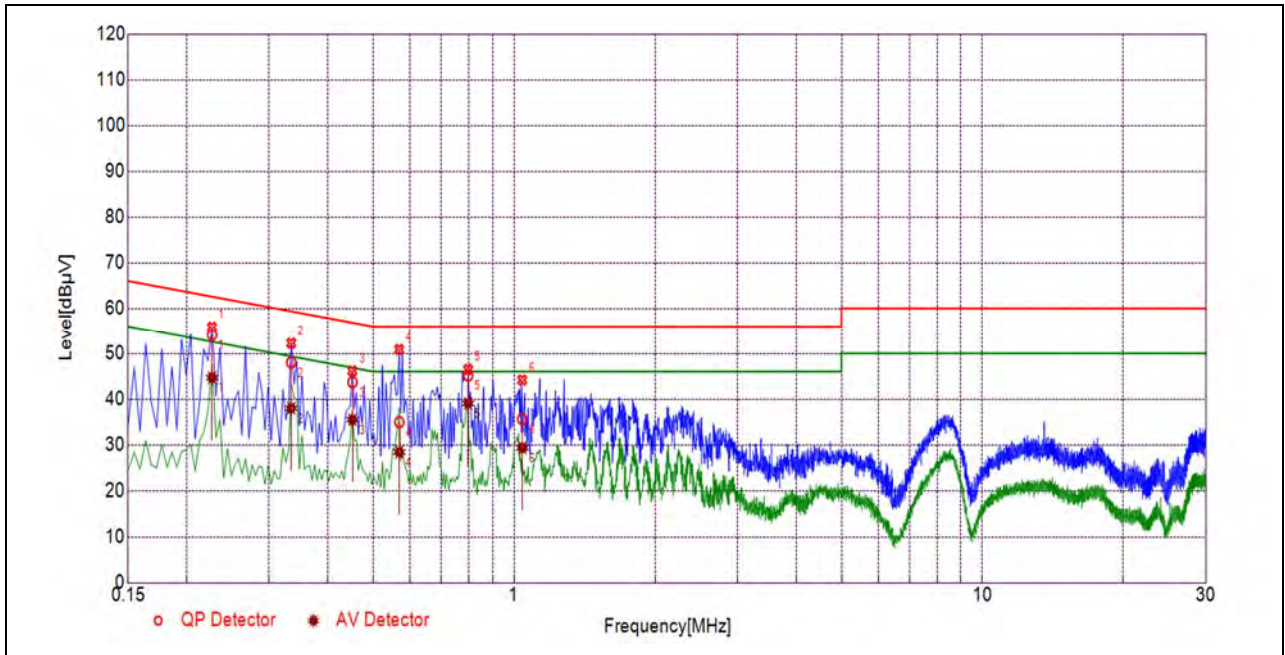
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

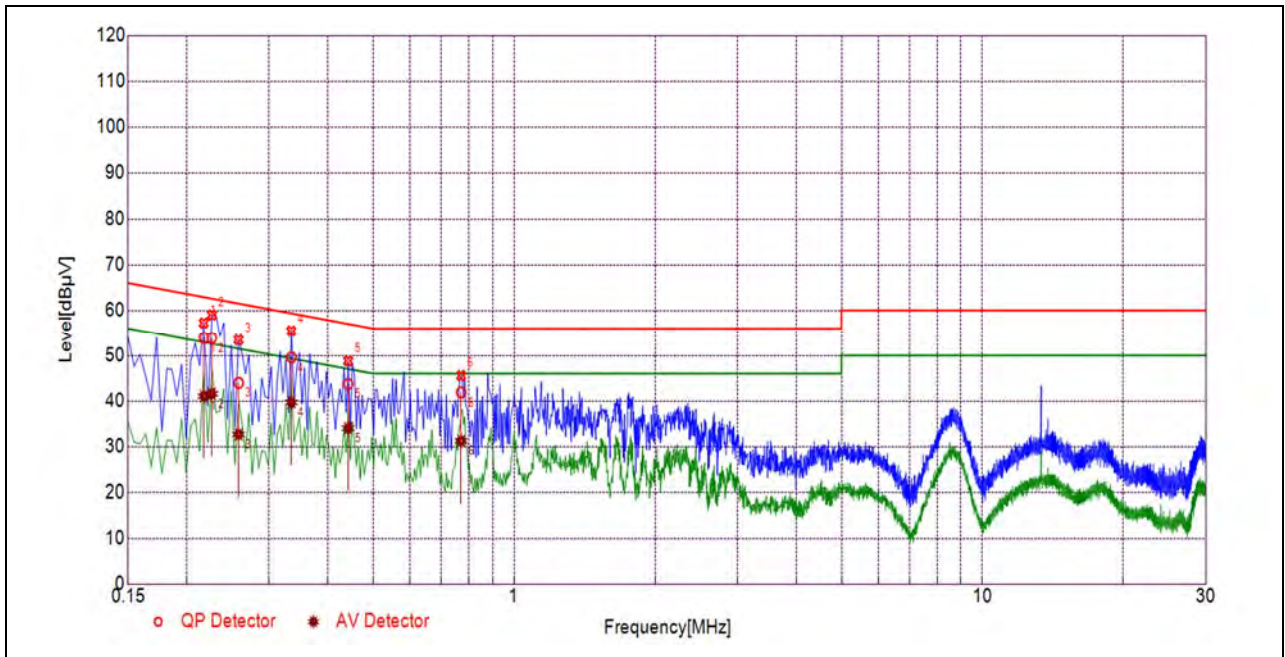
A_{Factor} : Voltage division factor of LISN

B.Test Plot:



(L Phase)

| No. | Fre. (MHz) | Emission Level (dBµV) | | Limit (dBµV) | | Power-line | Verdict |
|-----|------------|-----------------------|---------|--------------|---------|------------|---------|
| | | Quai-peak | Average | Quai-peak | Average | | |
| 1 | 0.2266 | 54.08 | 44.65 | 62.57 | 52.57 | Line | PASS |
| 2 | 0.3344 | 48.01 | 38.00 | 59.34 | 49.34 | | PASS |
| 3 | 0.4518 | 43.68 | 35.48 | 56.84 | 46.84 | | PASS |
| 4 | 0.5689 | 34.95 | 28.41 | 56.00 | 46.00 | | PASS |
| 5 | 0.7980 | 45.12 | 39.04 | 56.00 | 46.00 | | PASS |
| 6 | 1.0409 | 35.61 | 29.33 | 56.00 | 46.00 | | PASS |



(N Phase)

| No. | Fre. (MHz) | Emission Level (dBμV) | | Limit (dBμV) | | Power-line | Verdict |
|-----|------------|-----------------------|---------|--------------|---------|------------|---------|
| | | Quai-peak | Average | Quai-peak | Average | | |
| 1 | 0.2177 | 53.89 | 41.00 | 62.91 | 52.91 | Neutral | PASS |
| 2 | 0.2263 | 53.85 | 41.55 | 62.58 | 52.58 | | PASS |
| 3 | 0.2581 | 43.95 | 32.63 | 61.49 | 51.49 | | PASS |
| 4 | 0.3347 | 49.56 | 39.67 | 59.33 | 49.33 | | PASS |
| 5 | 0.4422 | 43.72 | 34.00 | 57.02 | 47.02 | | PASS |
| 6 | 0.7711 | 41.88 | 31.22 | 56.00 | 46.00 | | PASS |

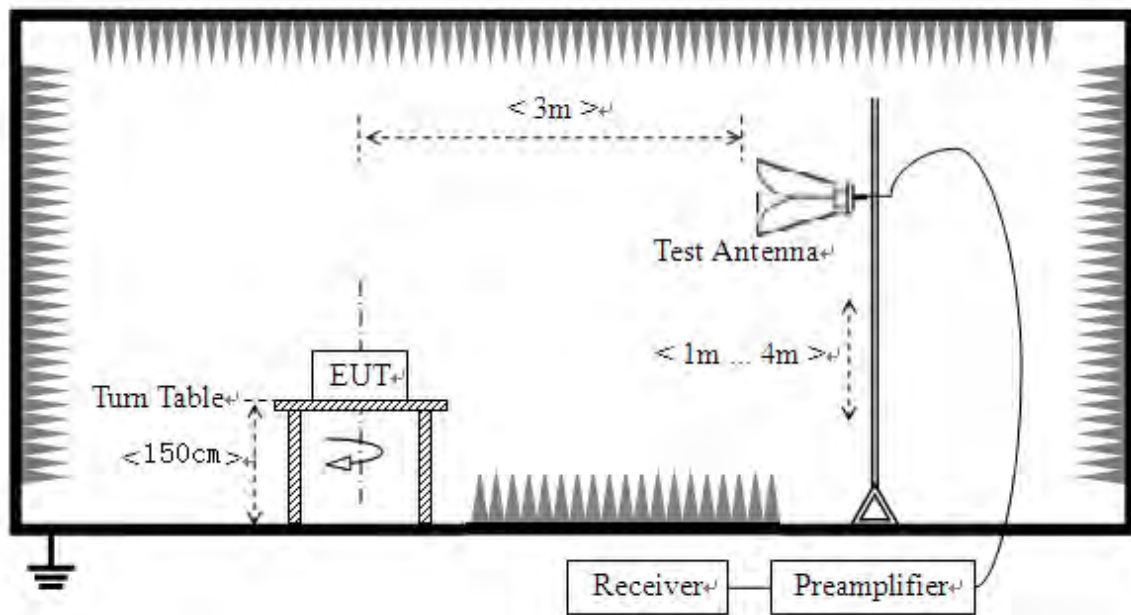
2.8. Restricted Frequency Bands

2.8.1. Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

2.8.2. Test Description

Test Setup



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.



2.8.3. Test Procedure

KDB 558074 Section 8.6 and 8.7 was used in order to prove compliance.

2.8.4. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

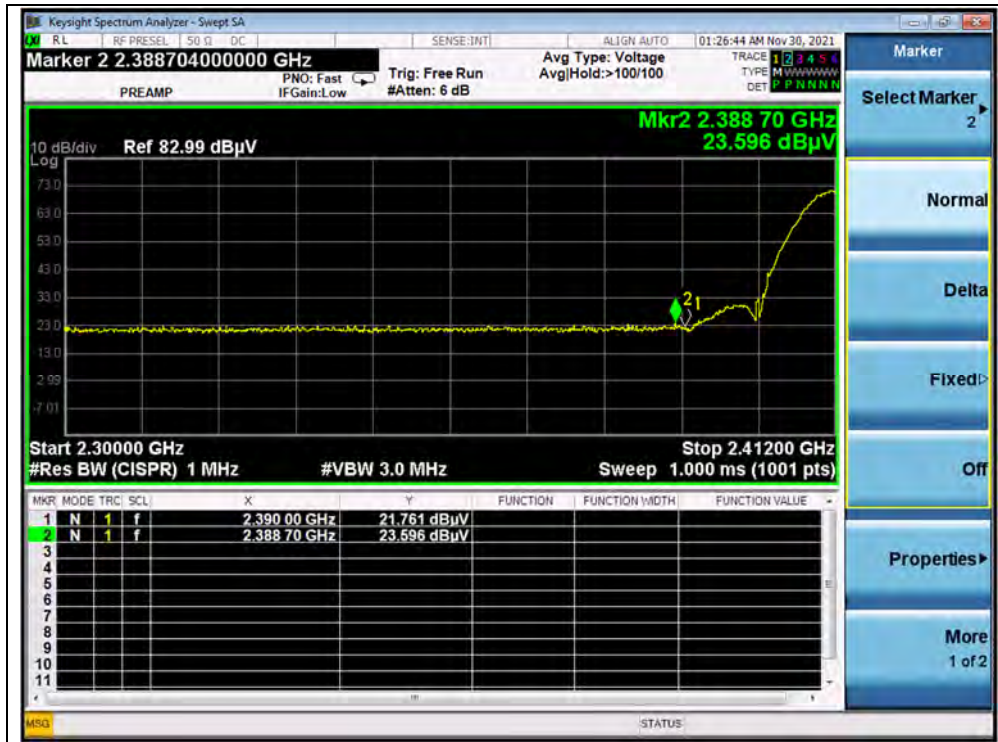
802.11b Mode

A. Test Verdict:

| Channel | Frequency (MHz) | Detector | Receiver Reading | A_T (dB) | A_{Factor} (dB@3m) | Max. Emission E (dB μ V/m) | Limit (dB μ V/m) | Verdict |
|---------|-----------------|----------|--------------------|------------|-----------------------------|--------------------------------|----------------------|---------|
| | | PK/ AV | U_R (dB μ V) | | | | | |
| 1 | 2388.70 | PK | 21.76 | 6.74 | 27.20 | 55.70 | 74 | PASS |
| 1 | 2388.82 | AV | 10.59 | 6.74 | 27.20 | 44.53 | 54 | PASS |
| 11 | 2483.74 | PK | 28.73 | 6.74 | 27.20 | 62.67 | 74 | PASS |
| 11 | 2483.50 | AV | 13.17 | 6.74 | 27.20 | 47.11 | 54 | PASS |



B.Test Plot:



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)



(AVERAGE, Channel 11, 802.11b)

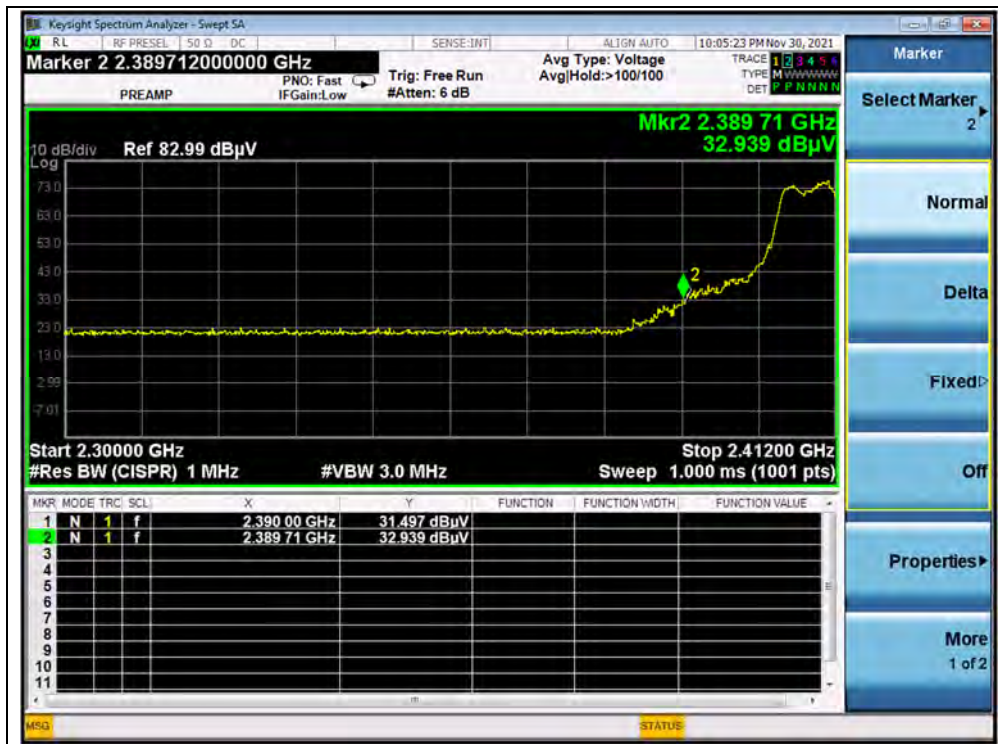


802.11g Mode

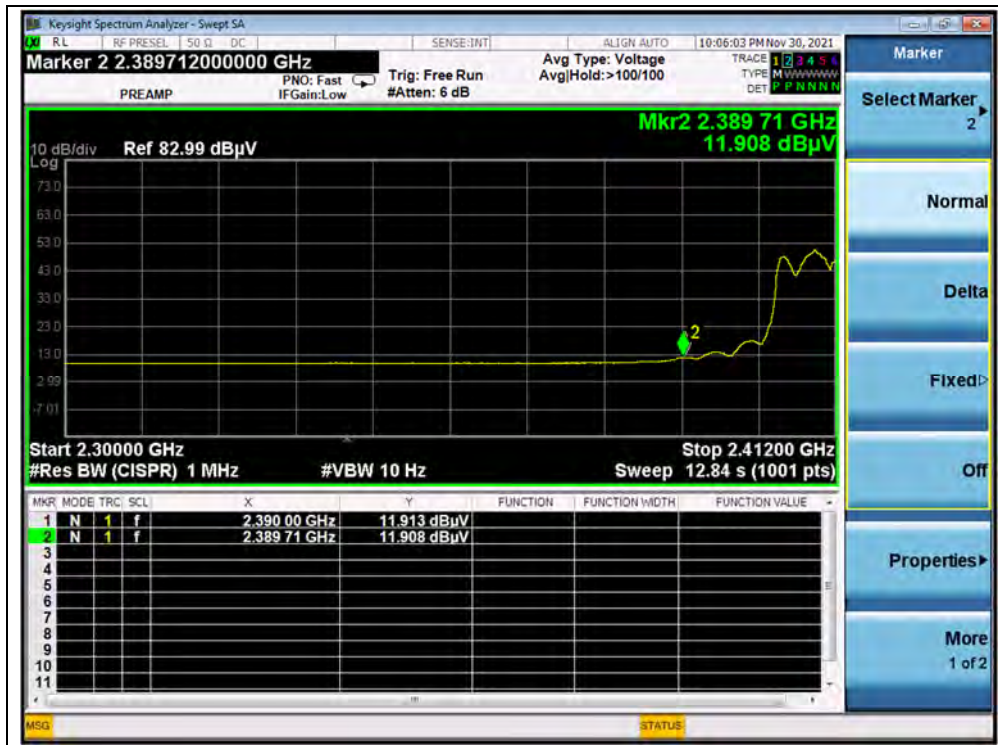
A.Test Verdict:

| Channel | Frequency (MHz) | Detector | Receiver Reading | A _T (dB) | A _{Factor} (dB@3m) | Max. Emission E (dBμV/m) | Limit (dBμV/m) | Verdict |
|---------|-----------------|----------|-----------------------|---------------------|-----------------------------|--------------------------|----------------|---------|
| | | PK/ AV | U _R (dBμV) | | | | | |
| 1 | 2389.71 | PK | 32.94 | 6.74 | 27.20 | 66.88 | 74 | PASS |
| 1 | 2390.00 | AV | 11.91 | 6.74 | 27.20 | 45.85 | 54 | PASS |
| 11 | 2484.38 | PK | 30.92 | 6.74 | 27.20 | 64.86 | 74 | PASS |
| 11 | 2483.50 | AV | 12.84 | 6.74 | 27.20 | 46.78 | 54 | PASS |

B.Test Plot:



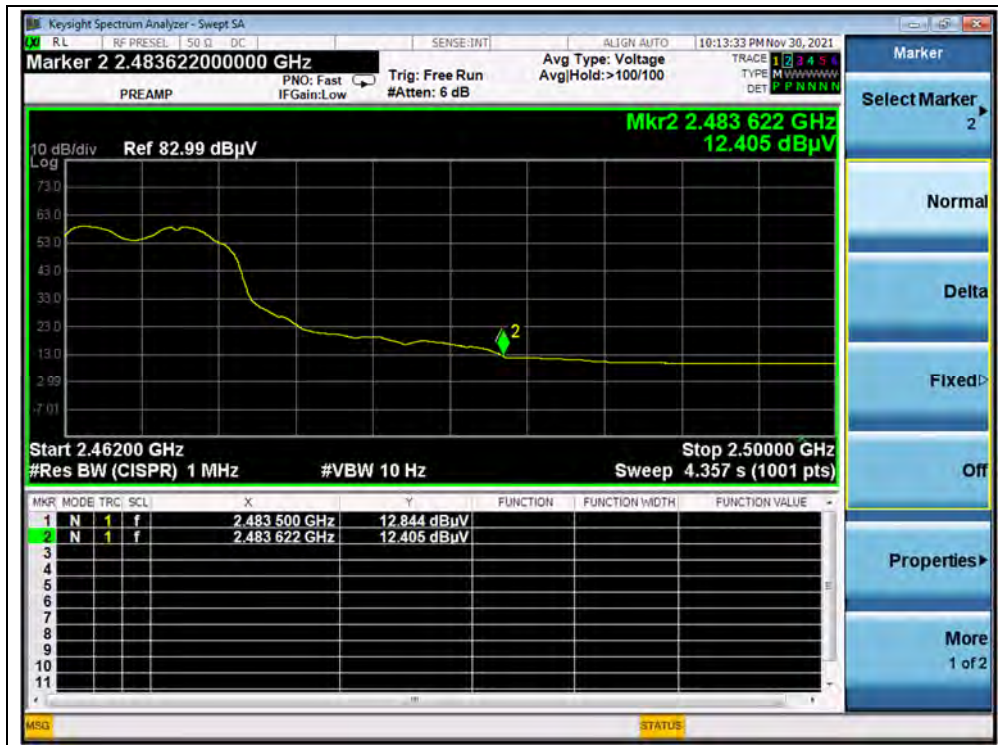
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)



(AVERAGE, Channel 11, 802.11g)

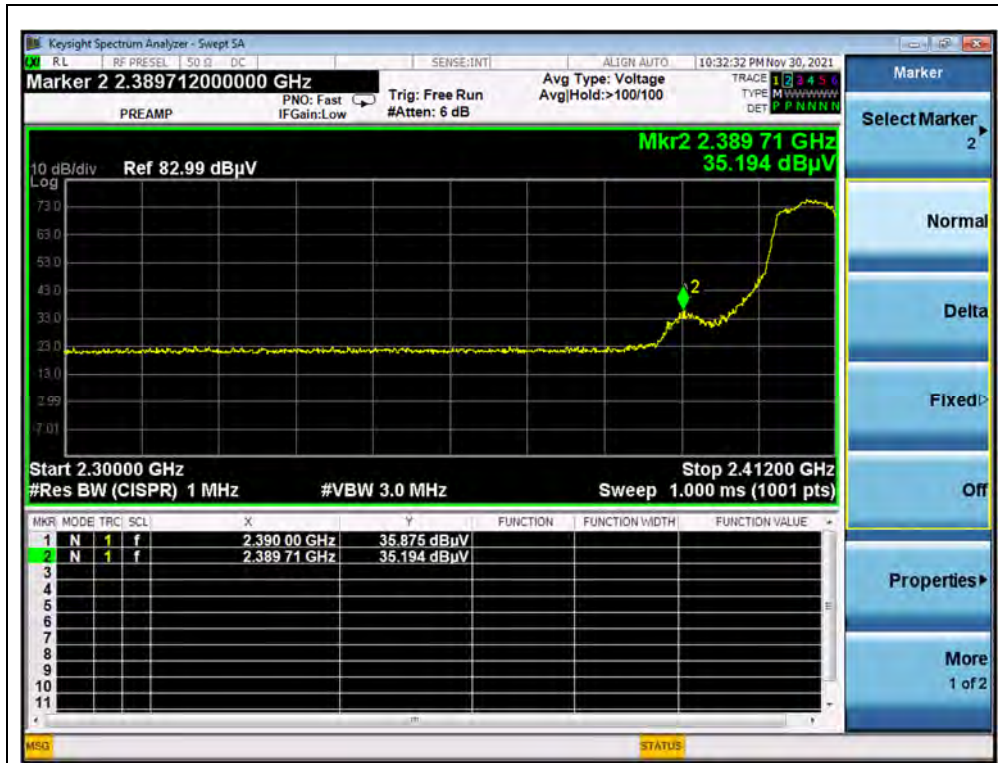


802.11n (HT20) Mode

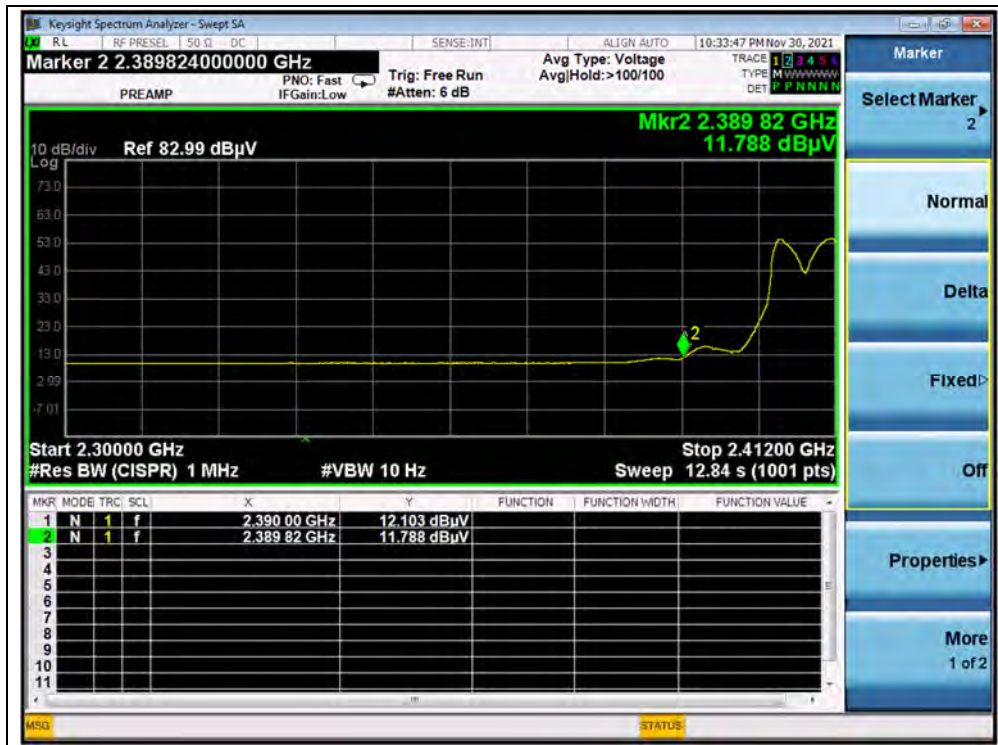
A.Test Verdict:

| Channel | Frequency (MHz) | Detector | Receiver Reading U_R (dB μ V) | A_T (dB) | A_{Factor} (dB@3m) | Max. Emission E (dB μ V/m) | Limit (dB μ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------|------------|----------------------|--------------------------------|----------------------|---------|
| | | PK/ AV | | | | | | |
| 1 | 2390.00 | PK | 35.88 | 6.74 | 27.20 | 69.82 | 74 | PASS |
| 1 | 2390.00 | AV | 12.10 | 6.74 | 27.20 | 46.04 | 54 | PASS |
| 11 | 2483.85 | PK | 39.09 | 6.74 | 27.20 | 73.03 | 74 | PASS |
| 11 | 2483.50 | AV | 15.71 | 6.74 | 27.20 | 49.65 | 54 | PASS |

B.Test Plot:



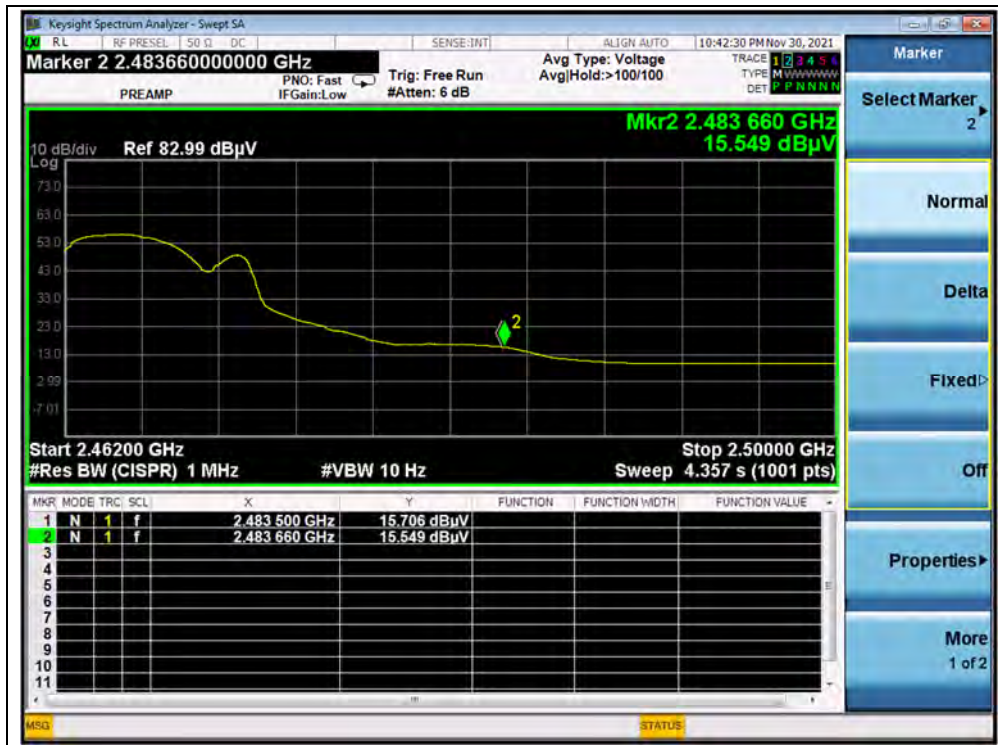
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 11, 802.11n (HT20))



(AVERAGE, Channel 11, 802.11n (HT20))

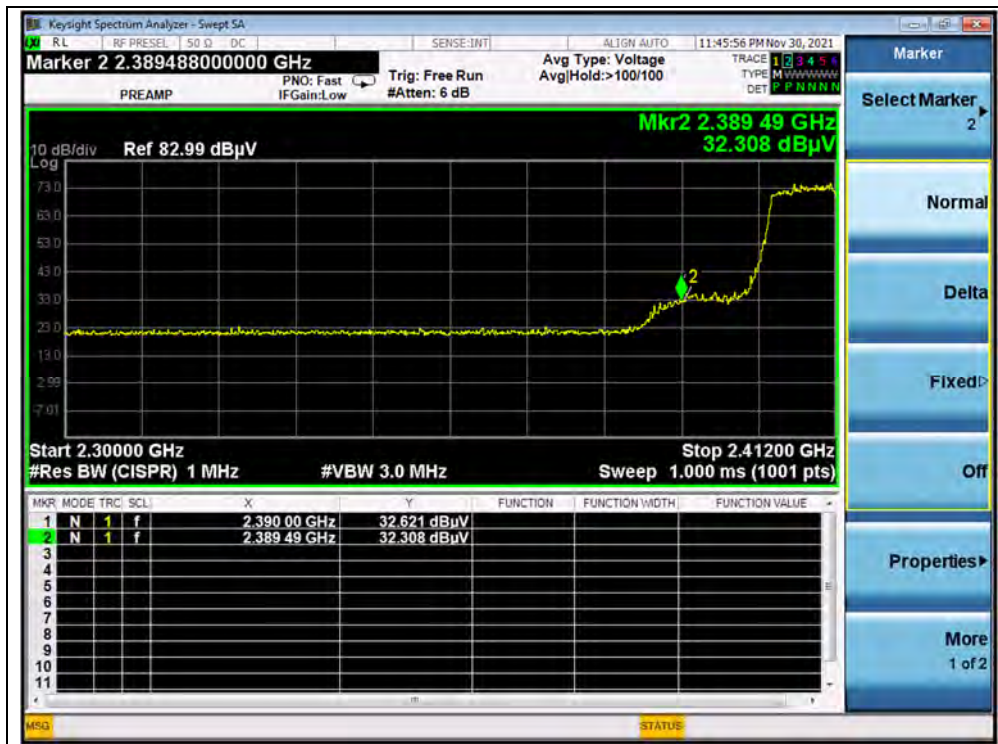


802.11ax (HEW20) Mode

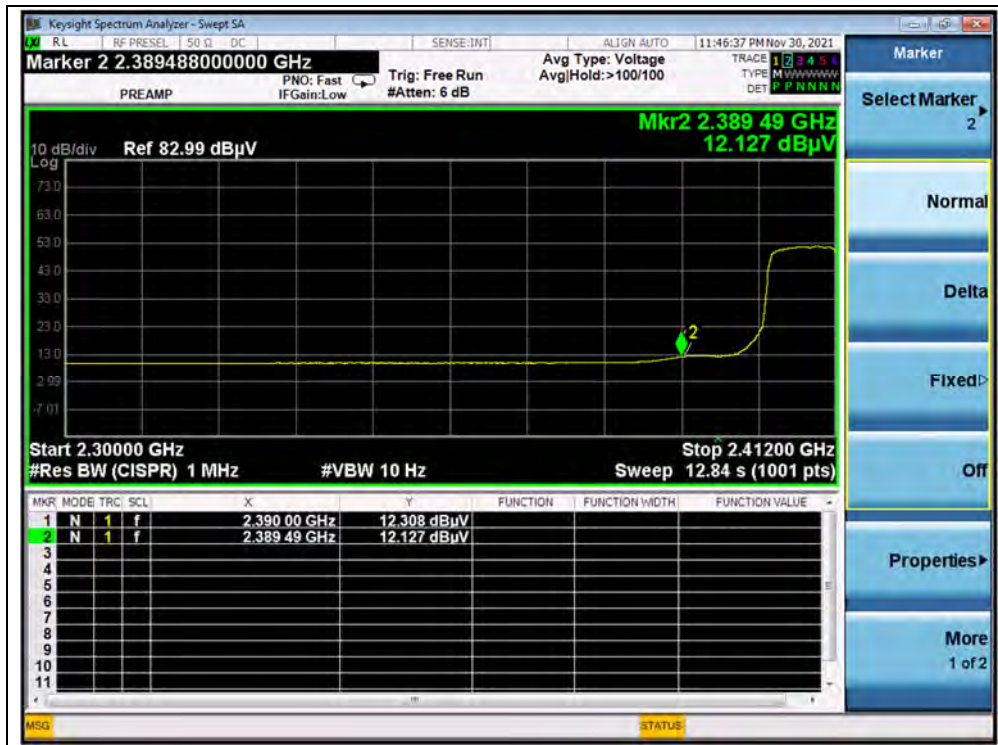
A.Test Verdict:

| Channel | Frequency (MHz) | Detector | Receiver Reading U_R (dB μ V) | A_T (dB) | A_{Factor} (dB@3m) | Max. Emission E (dB μ V/m) | Limit (dB μ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------|------------|----------------------|--------------------------------|----------------------|---------|
| | | PK/ AV | | | | | | |
| 1 | 2390.00 | PK | 32.62 | 6.74 | 27.20 | 66.56 | 74 | PASS |
| 1 | 2390.00 | AV | 12.31 | 6.74 | 27.20 | 46.25 | 54 | PASS |
| 11 | 2483.74 | PK | 33.87 | 6.74 | 27.20 | 67.81 | 74 | PASS |
| 11 | 2483.50 | AV | 13.15 | 6.74 | 27.20 | 47.09 | 54 | PASS |

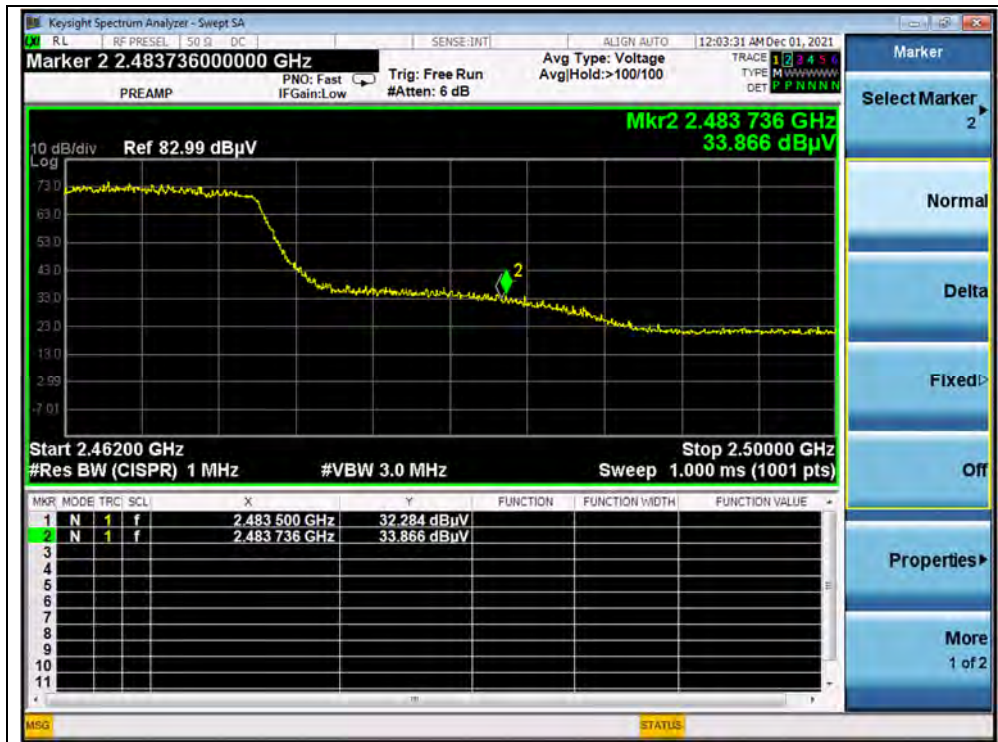
B.Test Plot:



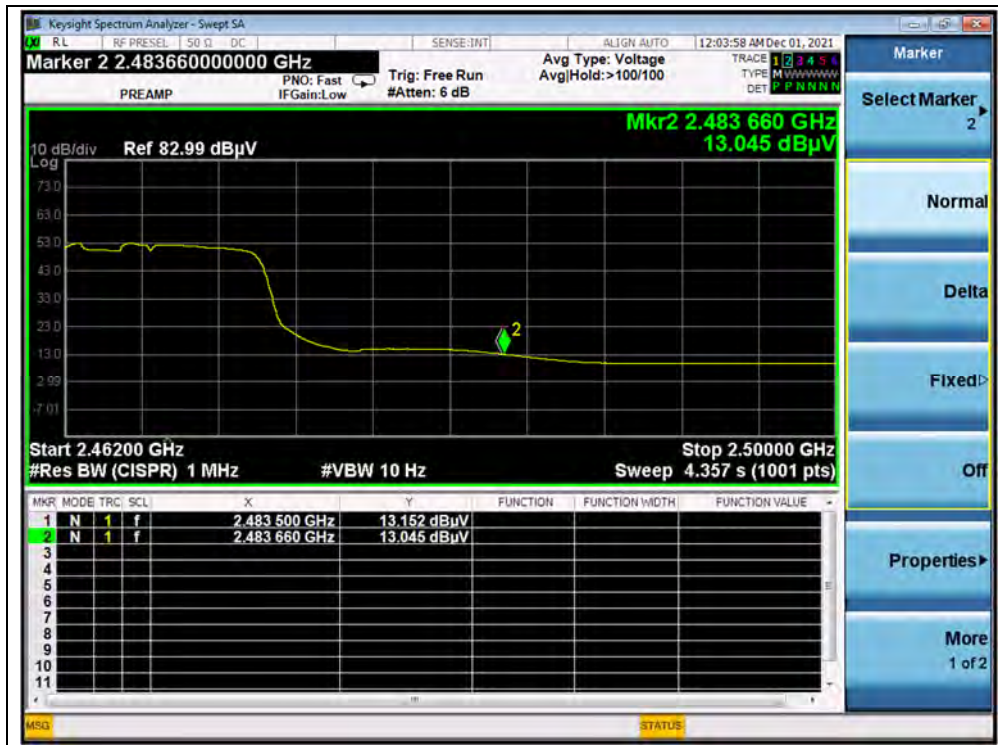
(PEAK, Channel 1, 802.11ax (HEW20))



(AVERAGE, Channel 1, 802.11ax (HEW20))



(PEAK, Channel 11, 802.11ax (HEW20))



(AVERAGE, Channel 11, 802.11ax (HEW20))



802.11ax (HEW20) RU26 Mode

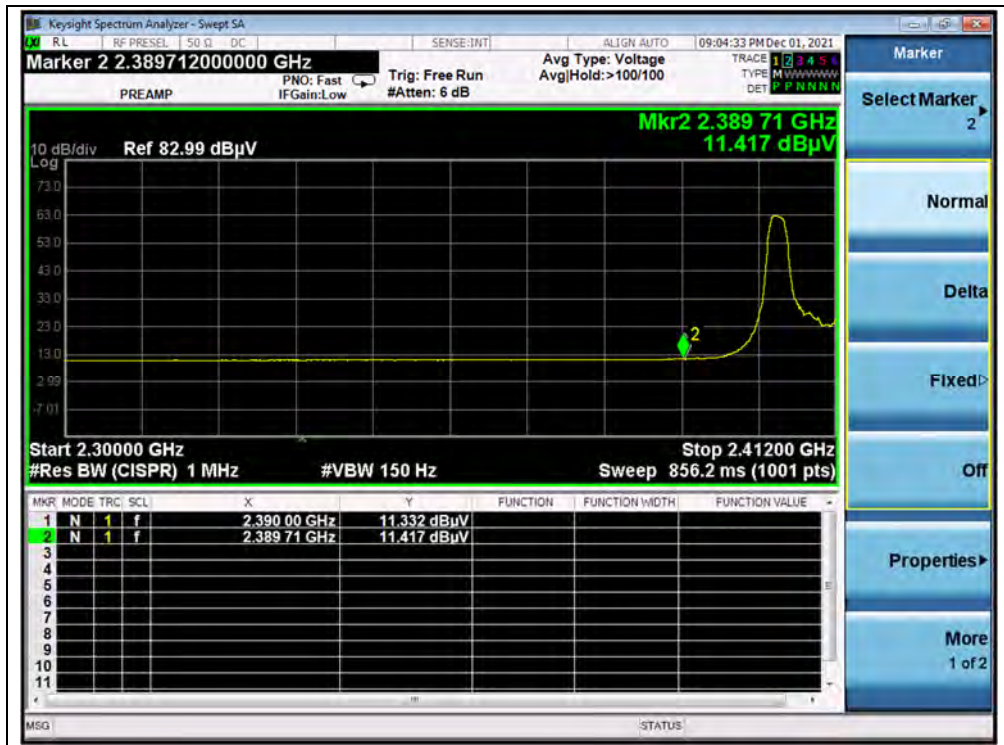
A.Test Verdict:

| Channel | Frequency (MHz) | Detector | Receiver Reading | A _T (dB) | A _{Factor} (dB@3m) | Max. Emission E (dBμV/m) | Limit (dBμV/m) | Verdict |
|---------|-----------------|----------|-----------------------|---------------------|-----------------------------|--------------------------|----------------|---------|
| | | PK/ AV | U _R (dBμV) | | | | | |
| 1 | 2389.71 | PK | 34.42 | 6.74 | 27.20 | 68.36 | 74 | PASS |
| 1 | 2389.71 | AV | 11.42 | 6.74 | 27.20 | 45.36 | 54 | PASS |
| 11 | 2483.50 | PK | 34.72 | 6.74 | 27.20 | 68.66 | 74 | PASS |
| 11 | 2483.81 | AV | 10.99 | 6.74 | 27.20 | 44.93 | 54 | PASS |

B.Test Plot:



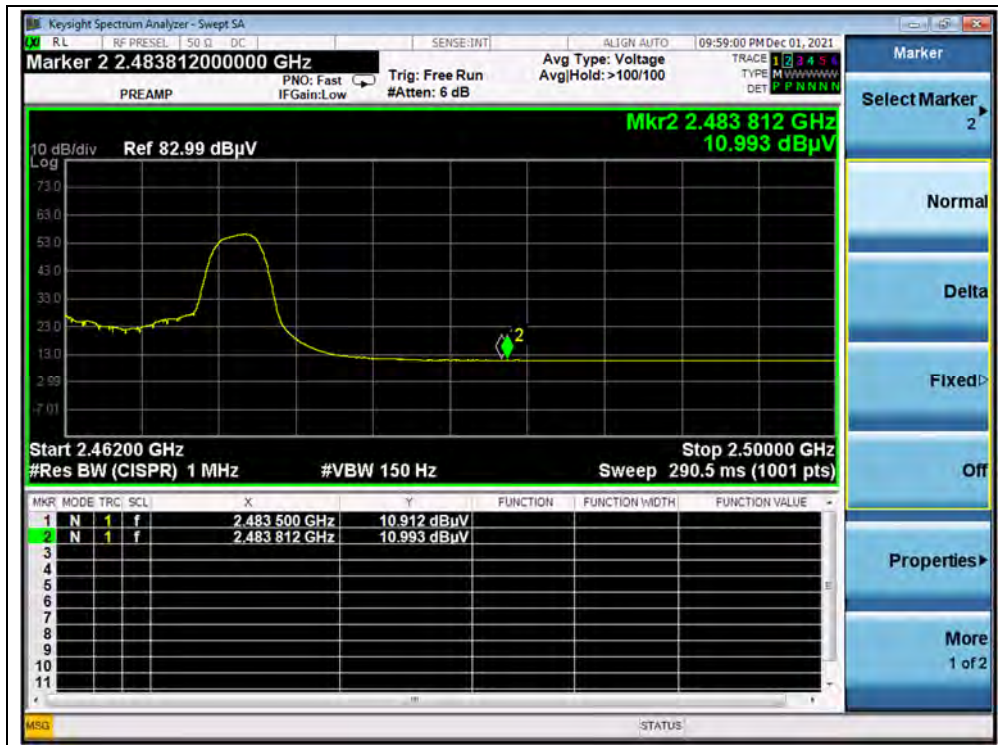
(PEAK, Channel 1, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 1, 802.11ax (HEW20) RU26)



(PEAK, Channel 11, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 11, 802.11ax (HEW20) RU26)

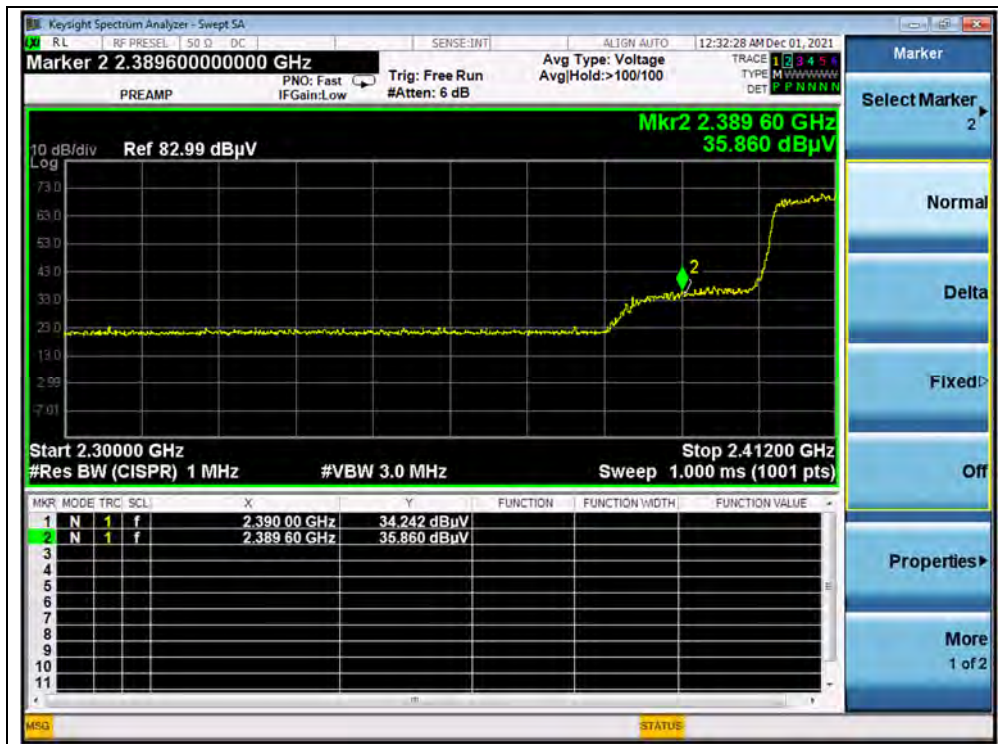


802.11ax (HEW40) Mode

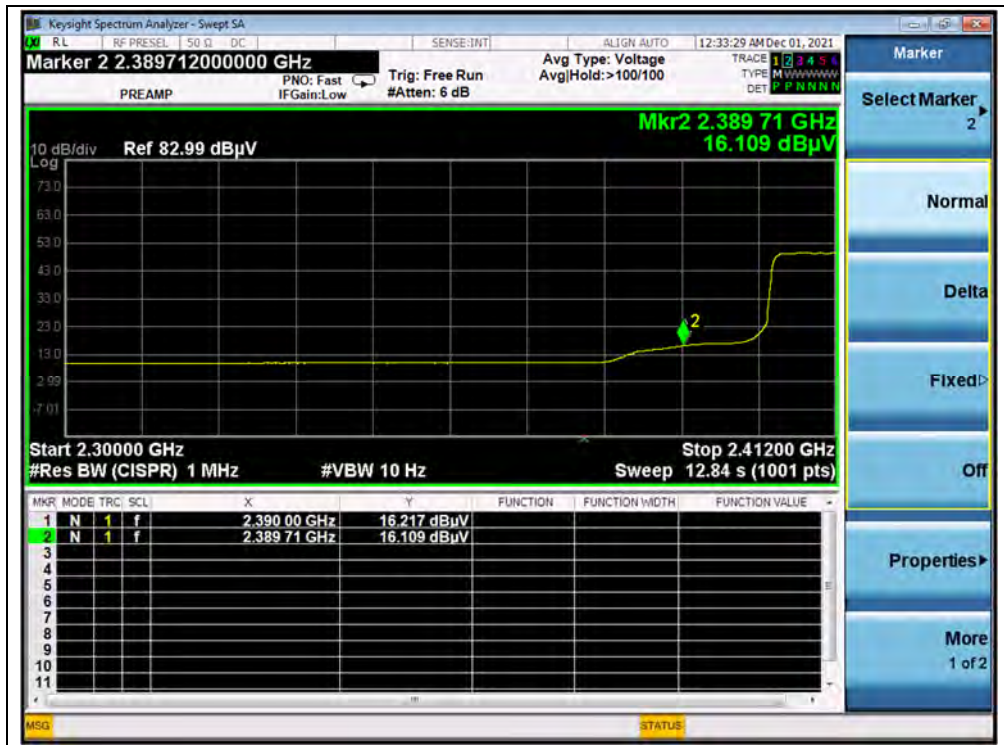
A.Test Verdict:

| Channel | Frequency (MHz) | Detector | Receiver Reading | A _T (dB) | A _{Factor} (dB@3m) | Max. Emission E (dBμV/m) | Limit (dBμV/m) | Verdict |
|---------|-----------------|----------|-----------------------|---------------------|-----------------------------|--------------------------|----------------|---------|
| | | PK/ AV | U _R (dBμV) | | | | | |
| 3 | 2389.60 | PK | 35.86 | 6.74 | 27.20 | 69.80 | 74 | PASS |
| 3 | 2390.00 | AV | 16.22 | 6.74 | 27.20 | 50.16 | 54 | PASS |
| 9 | 2484.19 | PK | 35.85 | 6.74 | 27.20 | 69.79 | 74 | PASS |
| 9 | 2483.50 | AV | 13.61 | 6.74 | 27.20 | 47.55 | 54 | PASS |

B.Test Plot:



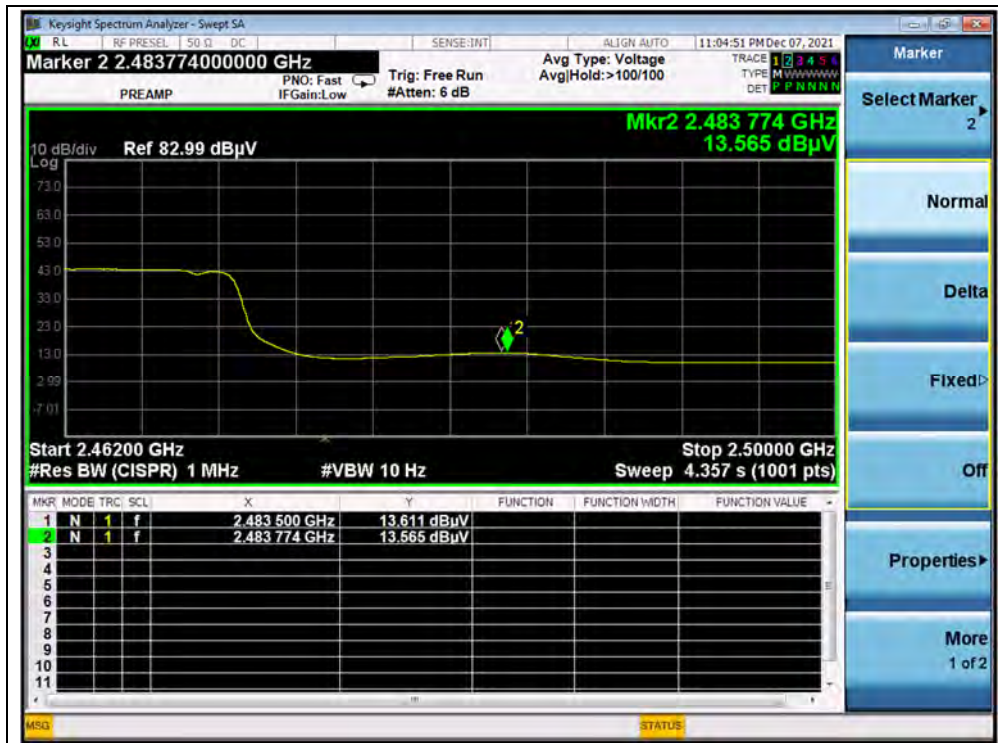
(PEAK, Channel 3, 802.11ax (HEW40))



(AVERAGE, Channel 3, 802.11ax (HEW40))



(PEAK, Channel 9, 802.11ax (HEW40))



(AVERAGE, Channel 9, 802.11ax (HEW40))



2.9. Radiated Emission

2.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength ($\mu\text{V}/\text{m}$) | Measurement Distance (m) |
|-----------------|---|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

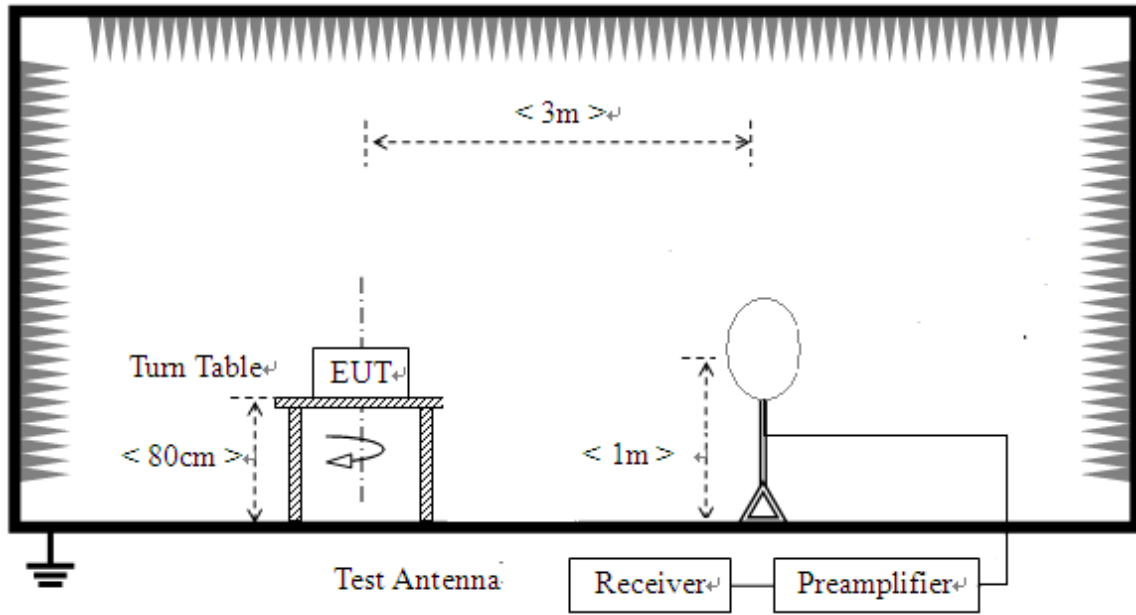
Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

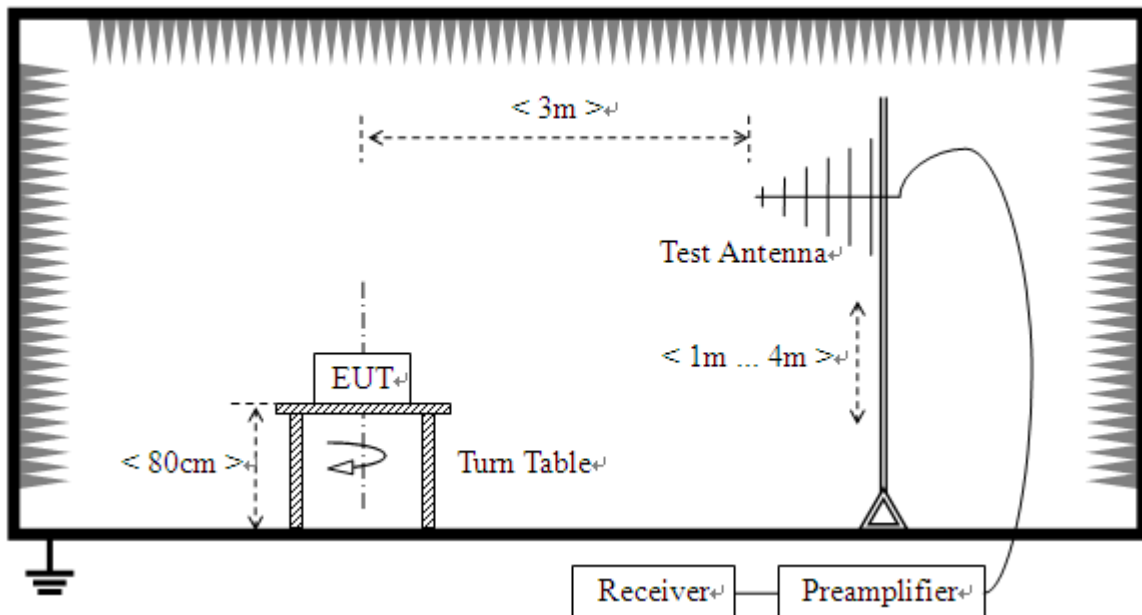
2.9.2. Test Description

Test Setup:

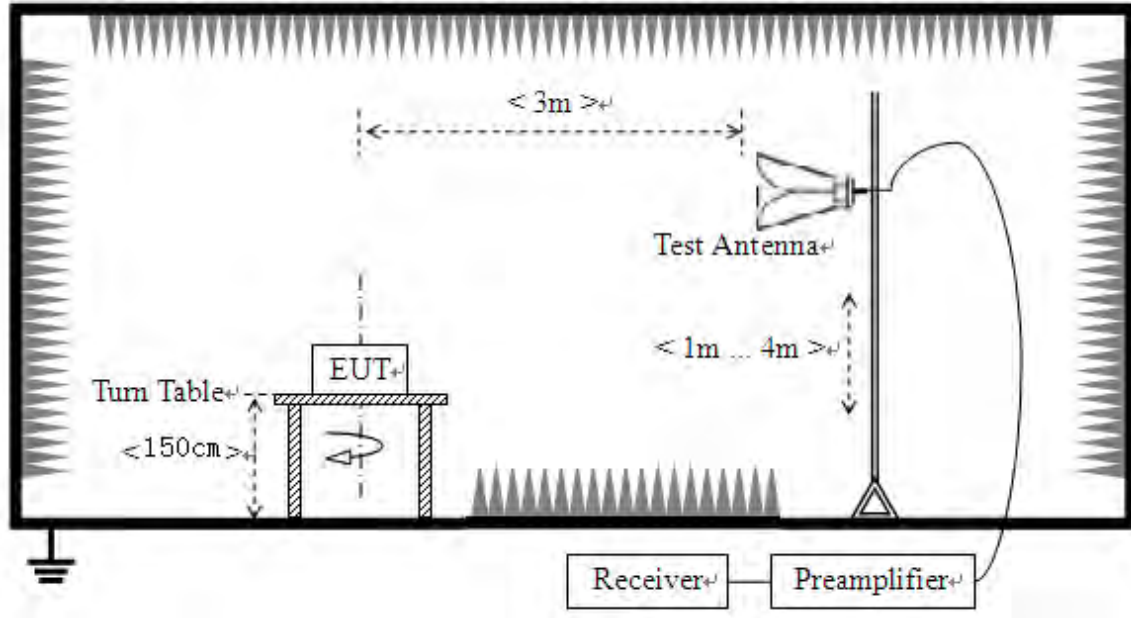
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.



2.9.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

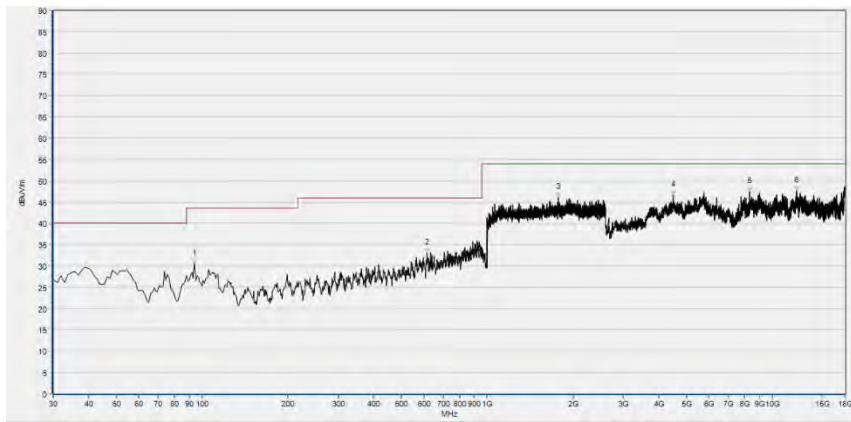
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.



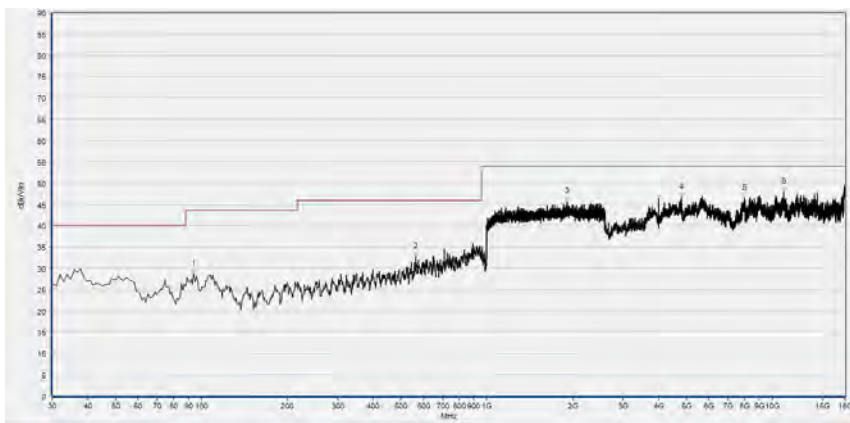
802.11b Mode

Plot for Channel 1



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 94.020 | 30.50 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 614.910 | 33.01 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1773.867 | 46.03 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 4484.960 | 46.53 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8307.240 | 47.42 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12188.040 | 47.54 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

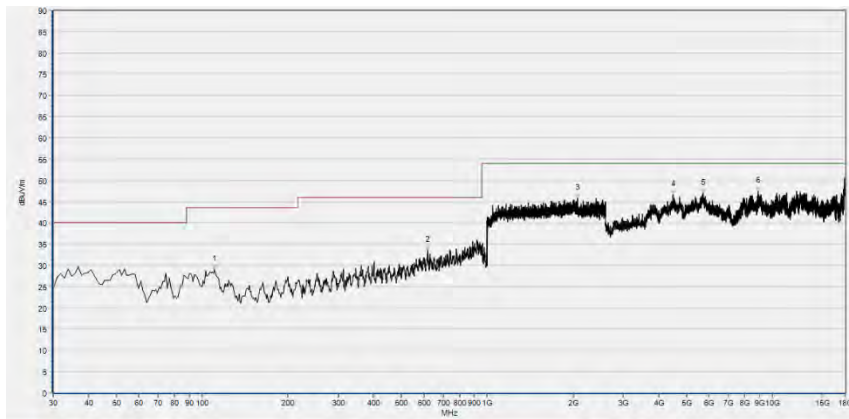
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 94.020 | 28.63 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 563.500 | 32.66 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1910.933 | 45.62 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 4799.120 | 46.55 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 7999.240 | 46.48 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 10974.520 | 47.90 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

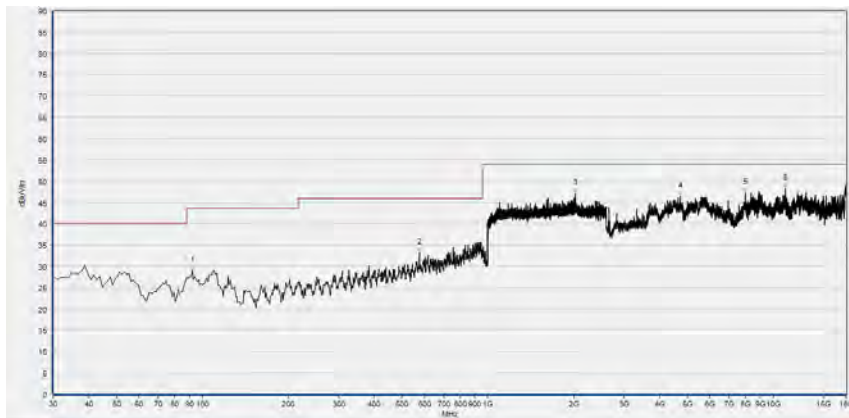
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 110.510 | 28.99 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 619.760 | 33.51 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2075.733 | 45.71 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 4475.720 | 46.63 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5701.560 | 46.95 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8929.400 | 47.40 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

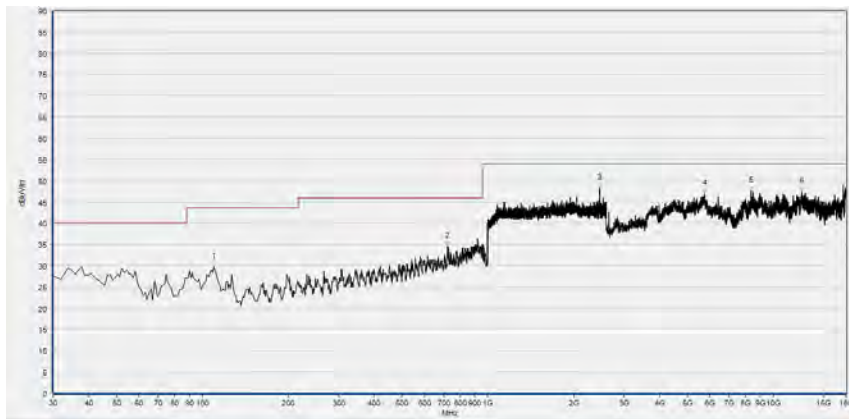
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 92.080 | 28.93 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 576.110 | 33.13 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 2025.067 | 47.09 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 4722.120 | 46.42 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 7999.240 | 47.26 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 11057.680 | 48.27 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

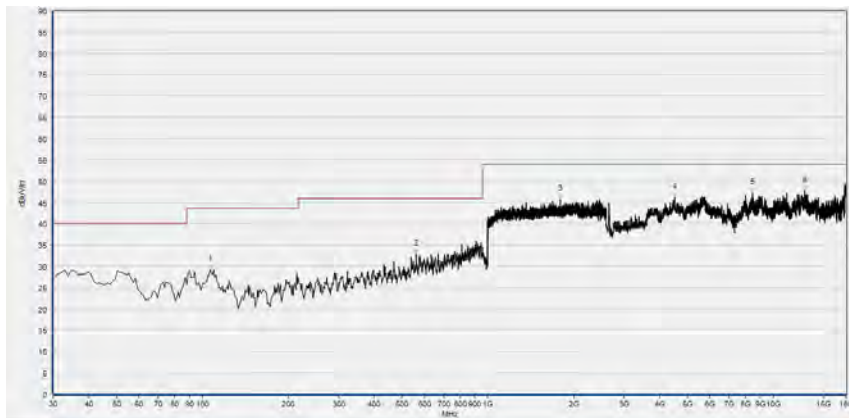
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 109.540 | 29.63 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 722.580 | 34.48 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2462.933 | 48.28 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5763.160 | 47.00 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8365.760 | 47.67 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12606.920 | 47.41 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

(Antenna Horizontal, 30MHz to 18GHz)



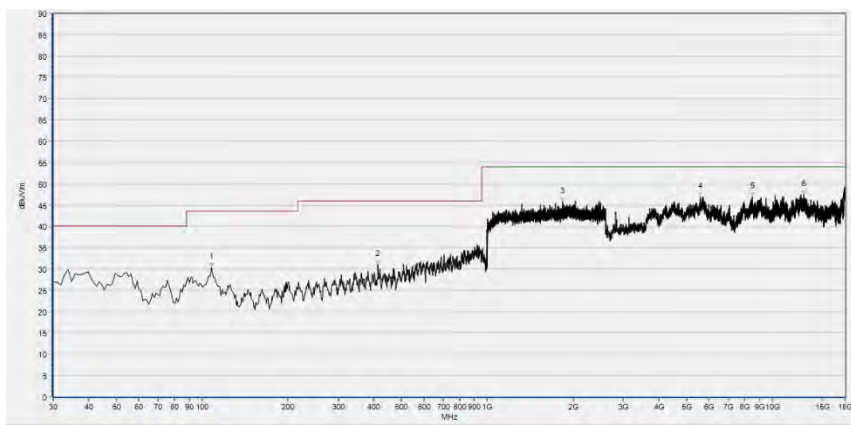
| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630 | 29.09 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 561.560 | 32.78 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1794.133 | 45.74 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 4506.520 | 46.33 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8436.600 | 47.30 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12871.800 | 47.78 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

(Antenna Vertical, 30MHz to 18GHz)



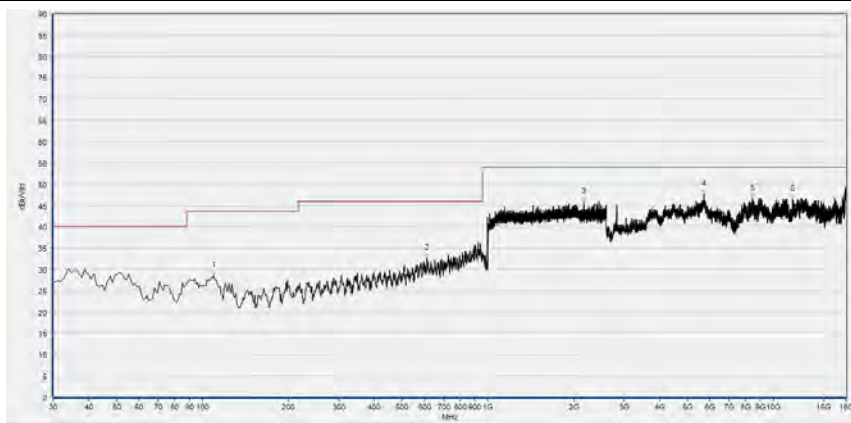
802.11g Mode

Plot for Channel 1



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 107.600 | 30.37 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 414.120 | 30.99 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1840.000 | 45.83 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5599.920 | 47.01 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8492.040 | 46.86 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12862.560 | 47.41 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

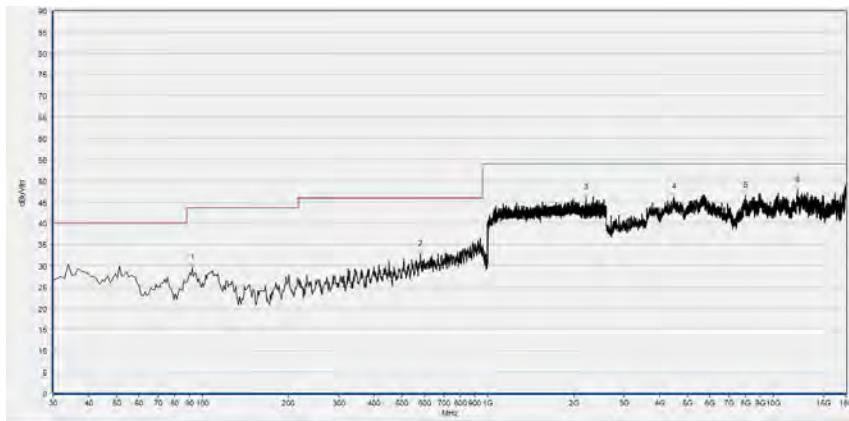
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 109.540 | 28.50 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 612.000 | 32.49 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 2174.933 | 45.71 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5729.280 | 47.52 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8482.800 | 46.61 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 11704.480 | 46.36 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

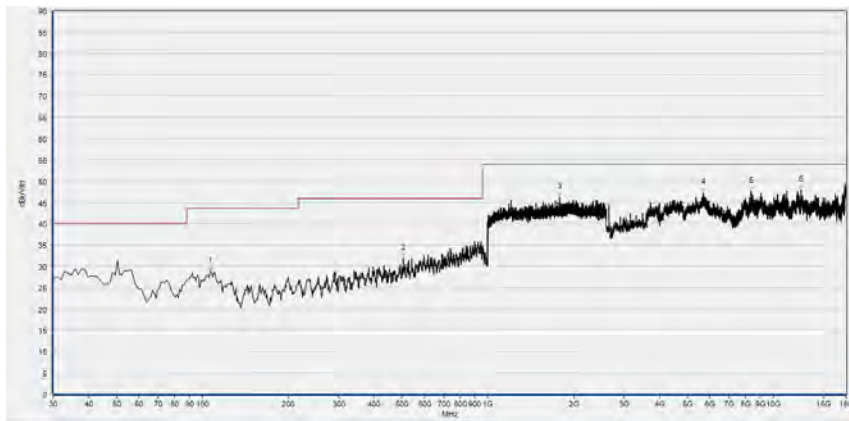
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 92.080 | 29.41 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 580.960 | 32.74 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2209.600 | 45.92 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 4484.960 | 46.17 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 7983.840 | 46.41 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12154.160 | 47.75 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

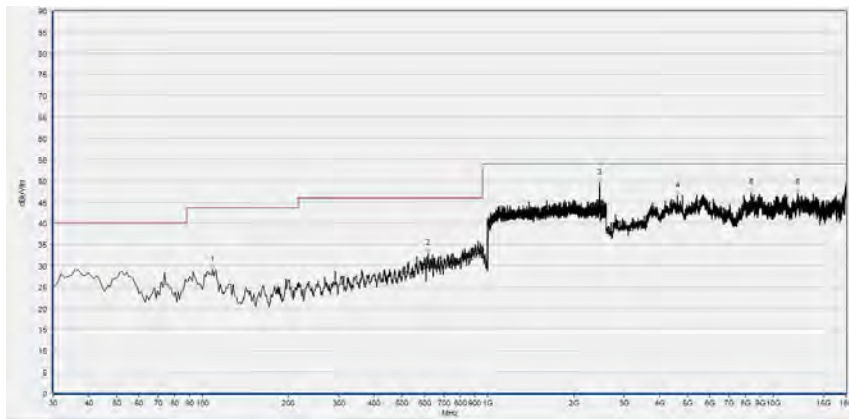
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630 | 28.84 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 506.270 | 31.85 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1786.133 | 46.32 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5683.080 | 47.30 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8350.360 | 47.60 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12520.680 | 47.91 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

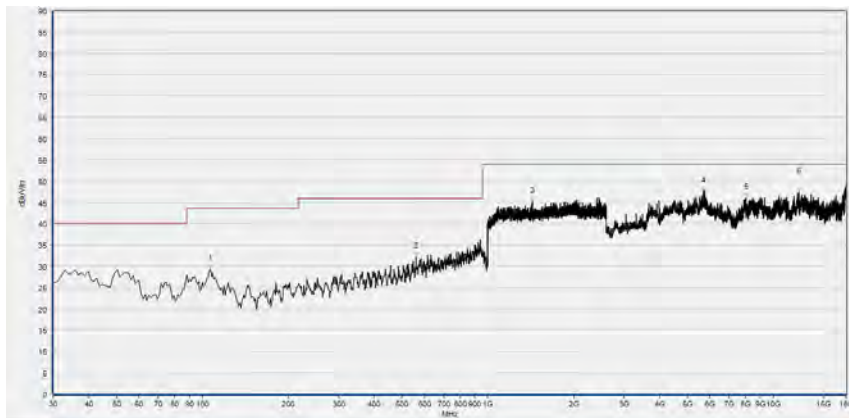
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 108.570 | 28.93 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 619.760 | 32.93 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2465.067 | 49.48 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 4608.160 | 46.44 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8368.840 | 47.11 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12197.280 | 47.01 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

(Antenna Horizontal, 30MHz to 18GHz)



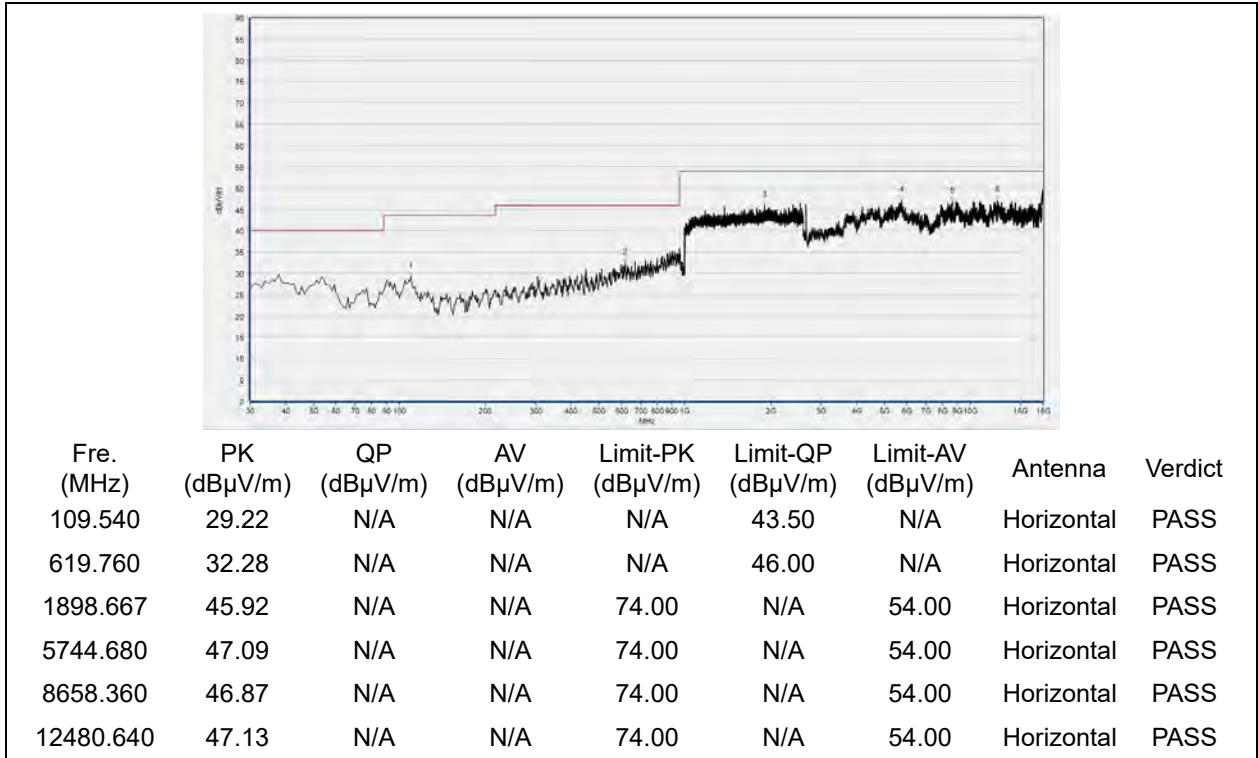
| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630 | 29.30 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 560.590 | 32.19 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1436.267 | 45.21 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5695.400 | 47.66 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8011.560 | 46.02 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12274.280 | 47.49 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

(Antenna Vertical, 30MHz to 18GHz)

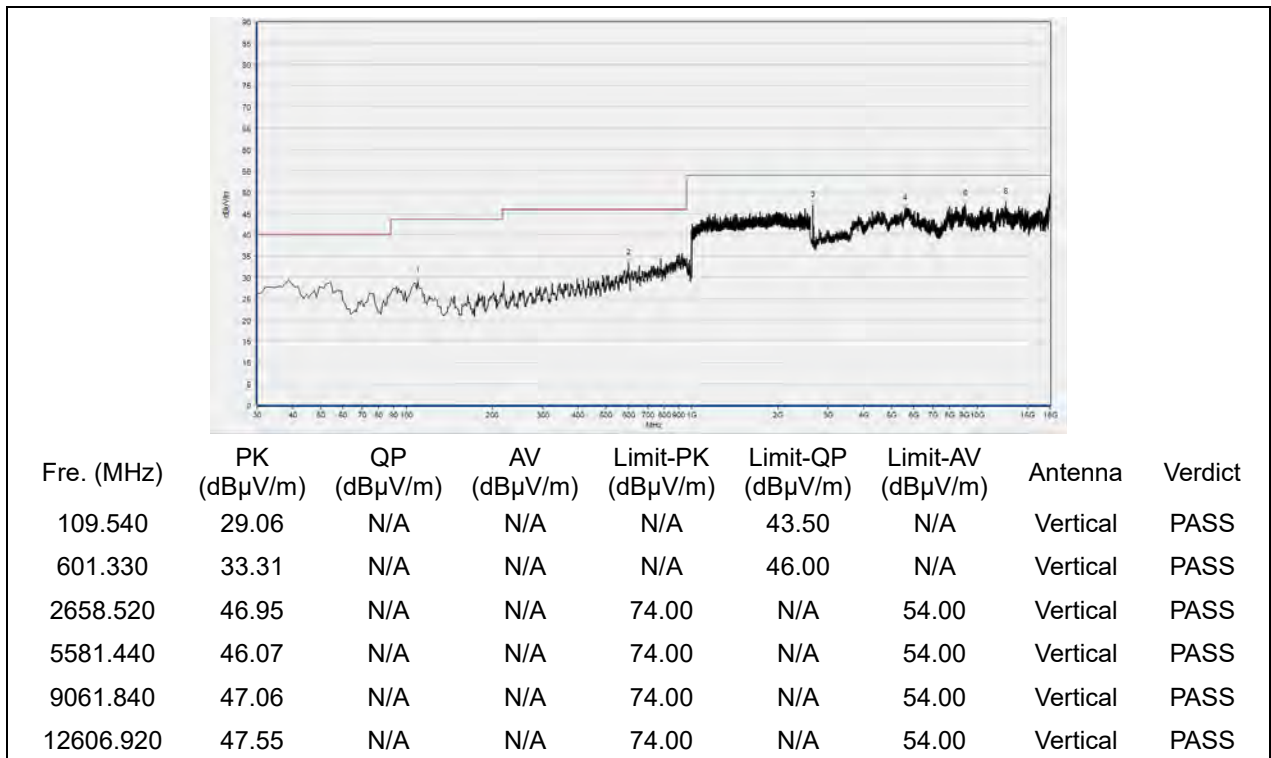


802.11n (HT20) Mode

Plot for Channel 1

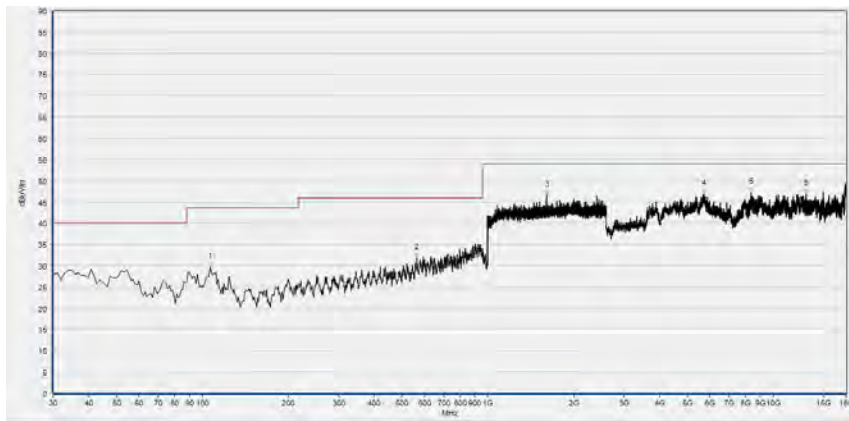


(Antenna Horizontal, 30MHz to 18GHz)



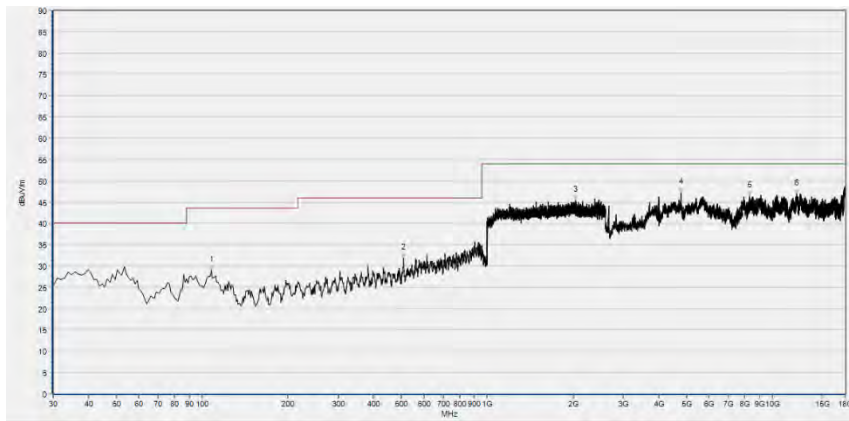
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 106.630 | 29.67 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 564.470 | 31.79 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1604.800 | 46.58 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5704.640 | 46.99 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8353.440 | 47.28 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 13056.600 | 46.91 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

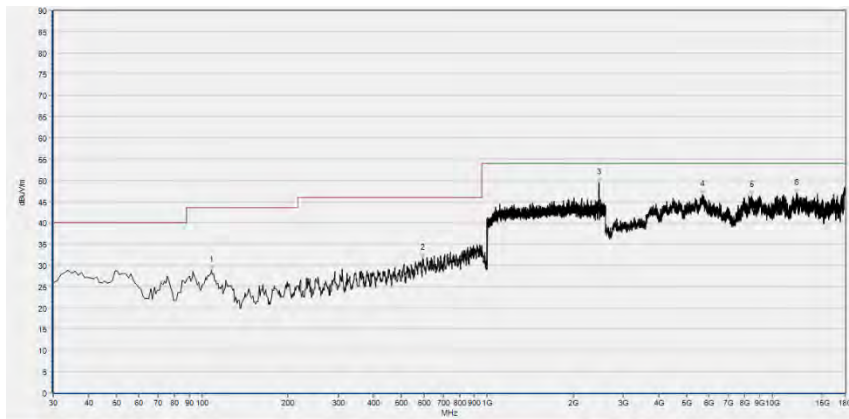
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 107.600 | 28.94 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 508.210 | 31.79 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 2036.800 | 45.44 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 4780.640 | 47.18 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8298.000 | 46.49 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12197.280 | 46.98 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

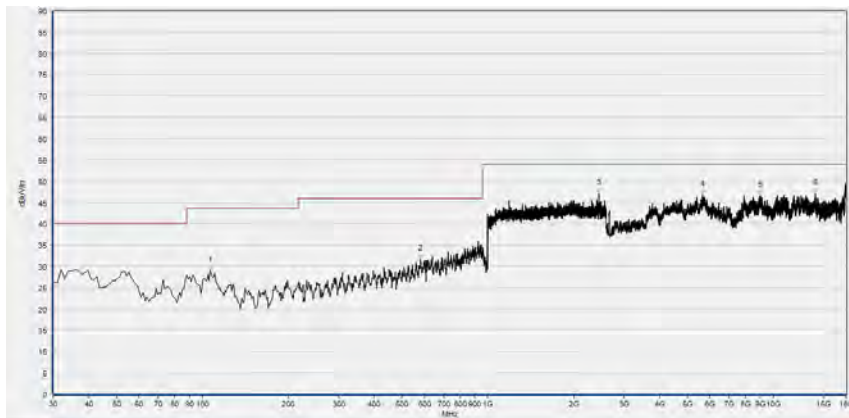
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 107.600 | 28.90 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 592.600 | 31.61 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2466.133 | 49.48 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5670.760 | 46.64 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8442.760 | 46.44 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12178.800 | 46.98 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

(Antenna Horizontal, 30MHz to 18GHz)



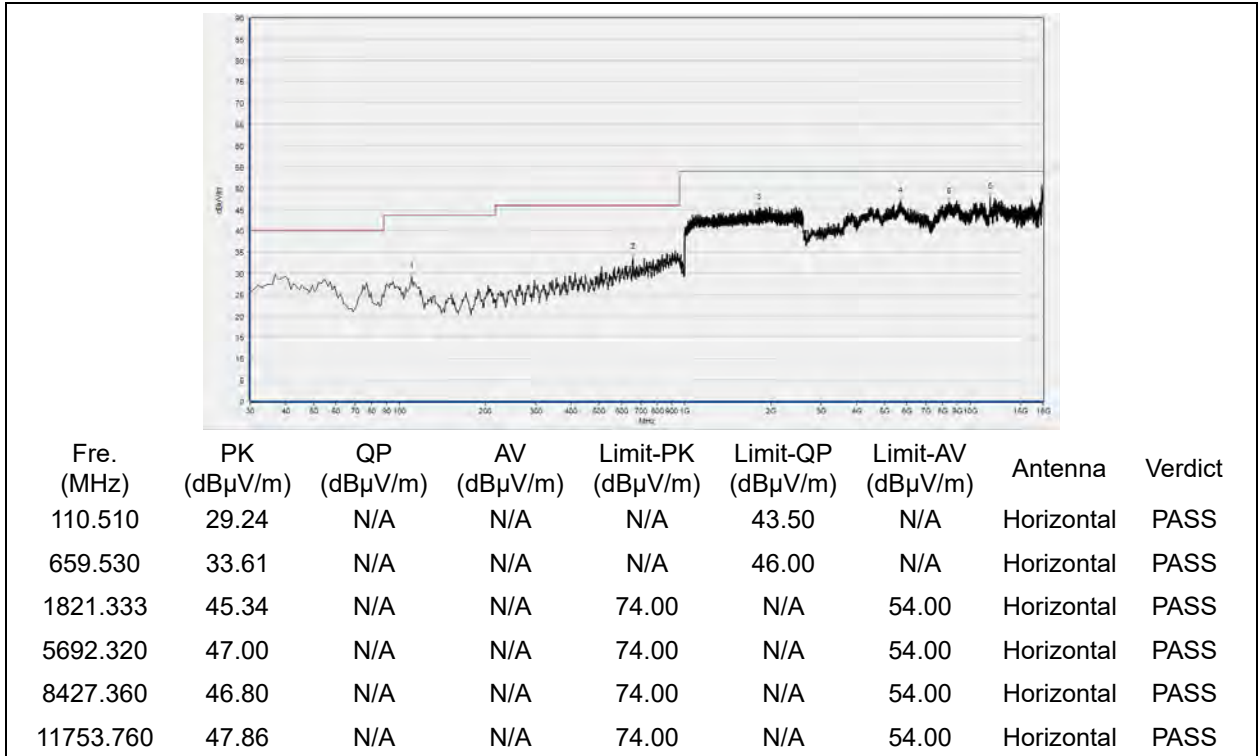
| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630 | 29.04 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 580.960 | 31.61 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 2449.600 | 47.03 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5655.360 | 46.82 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 9024.880 | 46.55 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 14063.760 | 47.17 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

(Antenna Vertical, 30MHz to 18GHz)

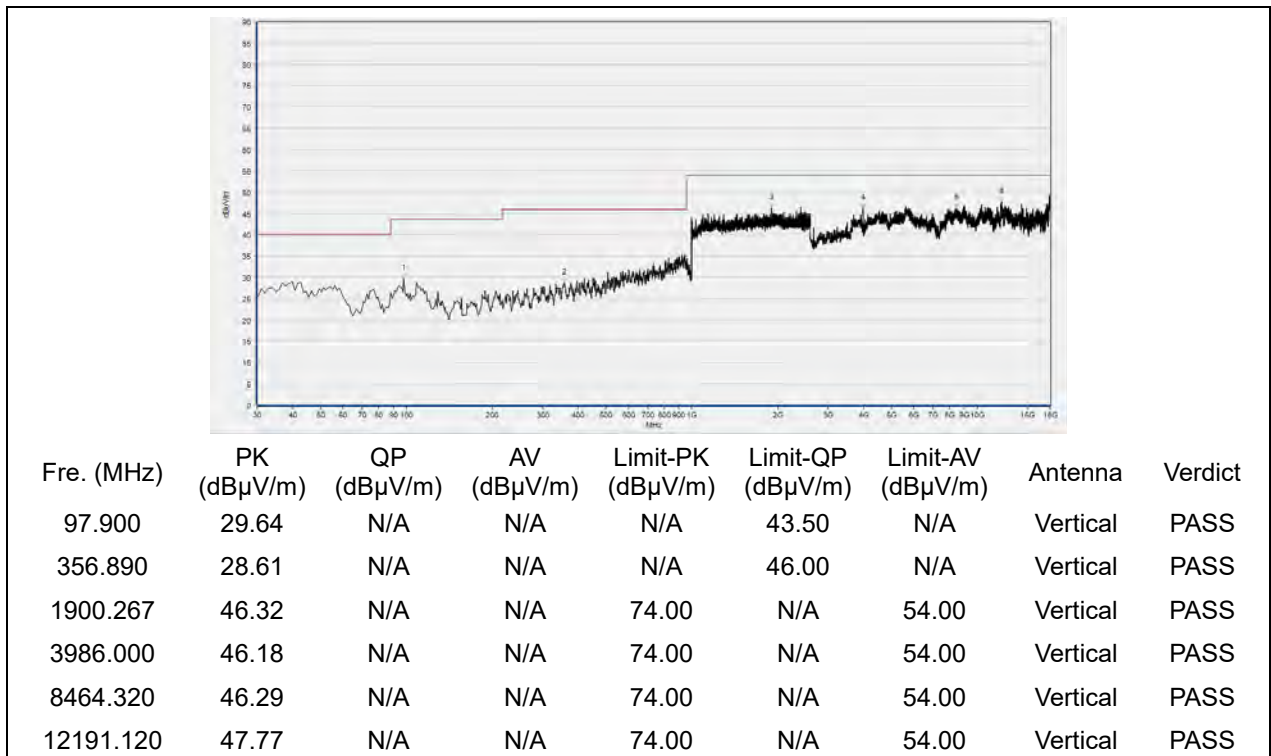


802.11ax (HEW20) Mode

Plot for Channel 1

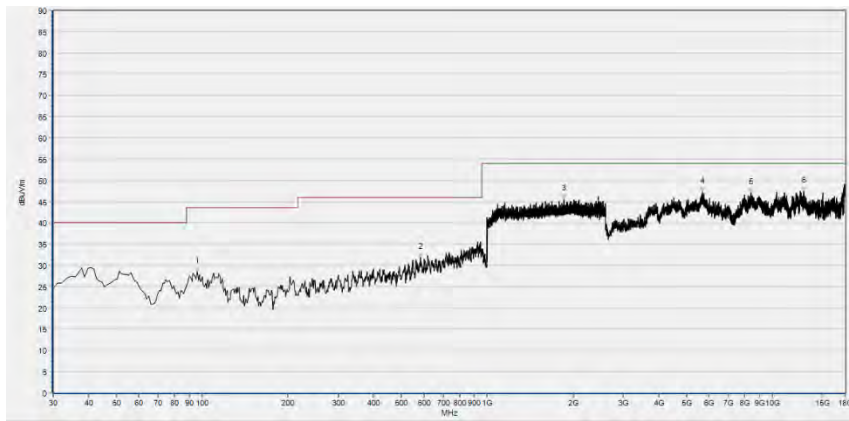


(Antenna Horizontal, 30MHz to 18GHz)



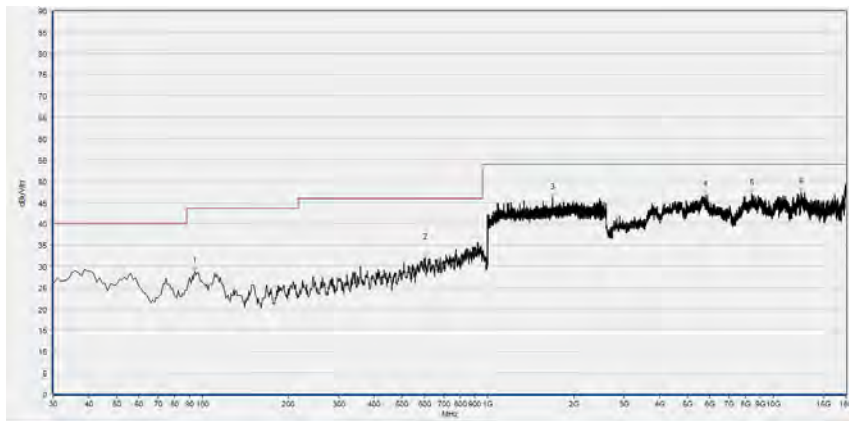
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 95.960 | 28.41 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 583.870 | 31.90 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1859.733 | 45.58 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5686.160 | 47.18 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8418.120 | 47.16 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12896.440 | 47.42 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

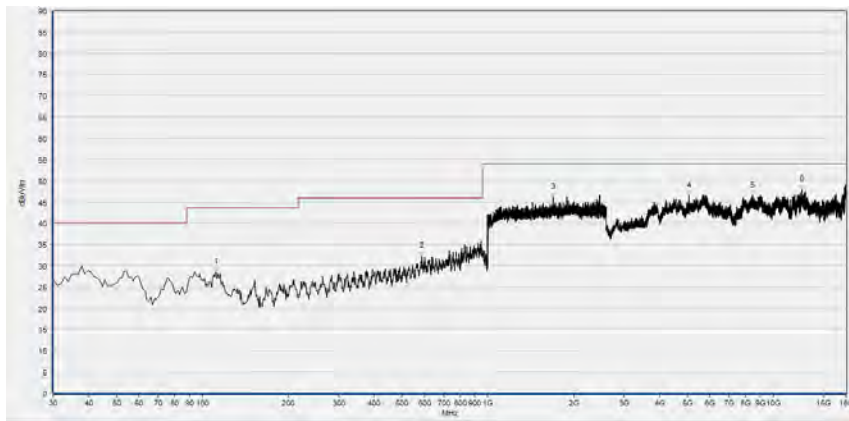
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 94.020 | 28.88 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 604.240 | 32.09 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1686.933 | 46.07 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5790.880 | 46.69 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8399.640 | 47.16 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12529.920 | 47.41 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

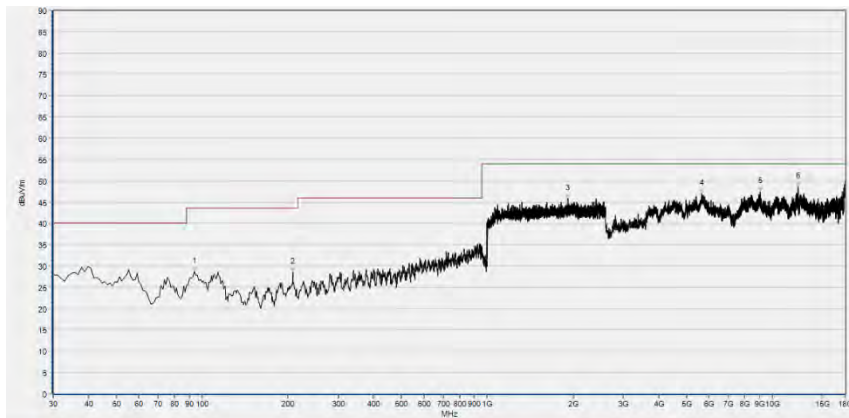
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 111.480 | 28.56 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 587.750 | 32.25 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1690.133 | 46.06 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5051.680 | 46.43 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8439.680 | 46.45 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12582.280 | 47.94 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

(Antenna Horizontal, 30MHz to 18GHz)



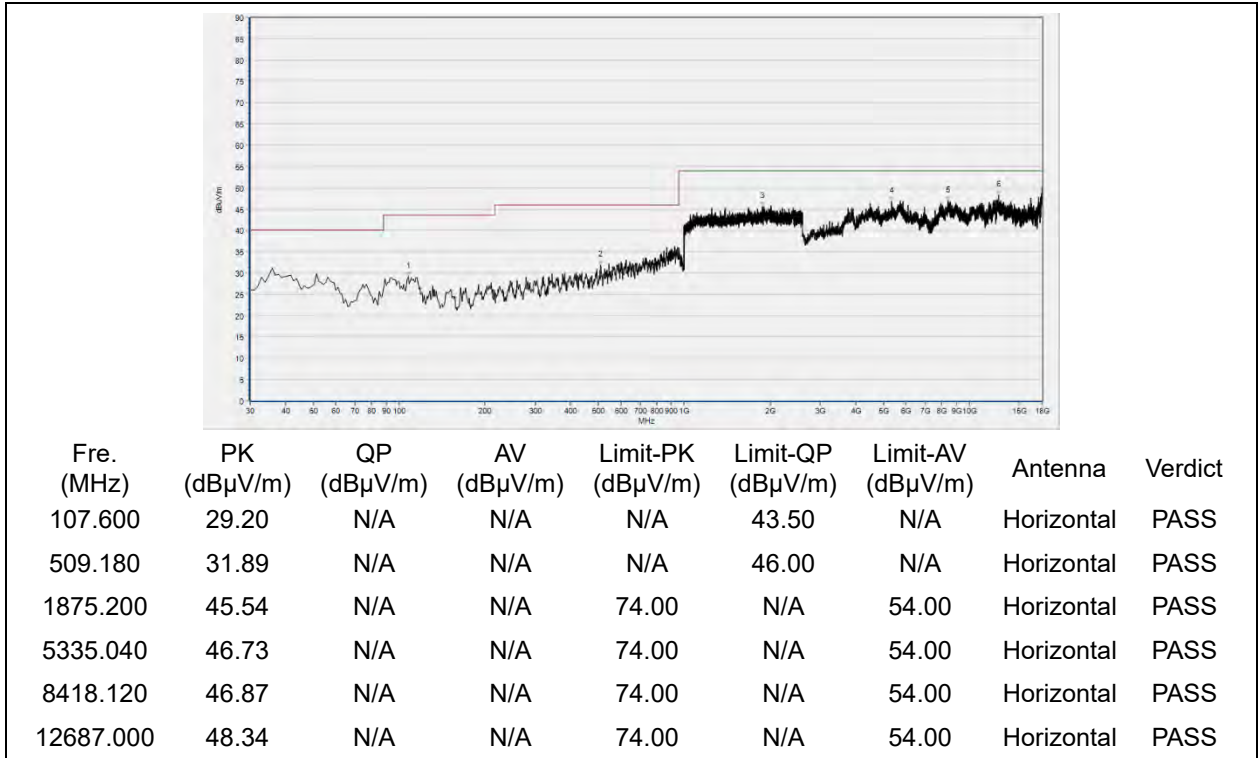
| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 94.020 | 28.68 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 207.510 | 28.53 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 1917.867 | 45.71 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5643.040 | 47.01 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 9064.920 | 47.37 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12292.760 | 48.61 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

(Antenna Vertical, 30MHz to 18GHz)

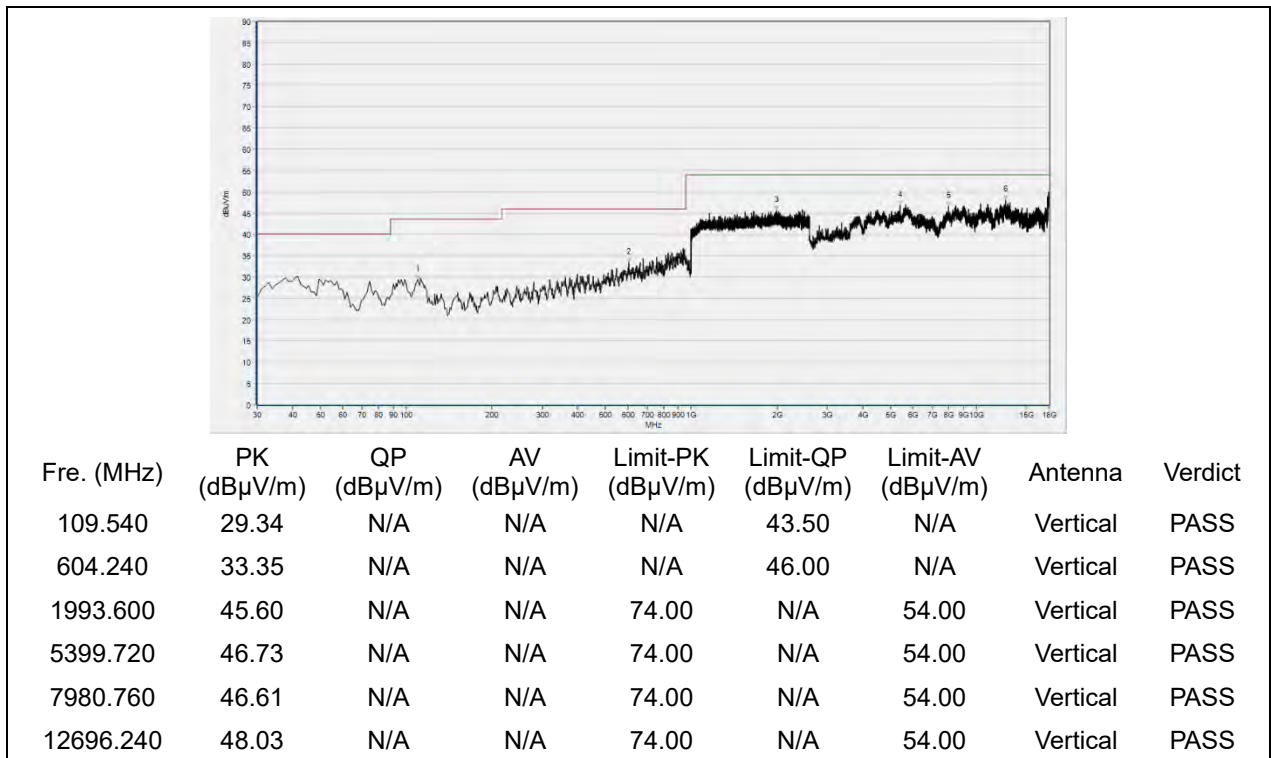


802.11ax (HEW20) RU26 Mode

Plot for Channel 1

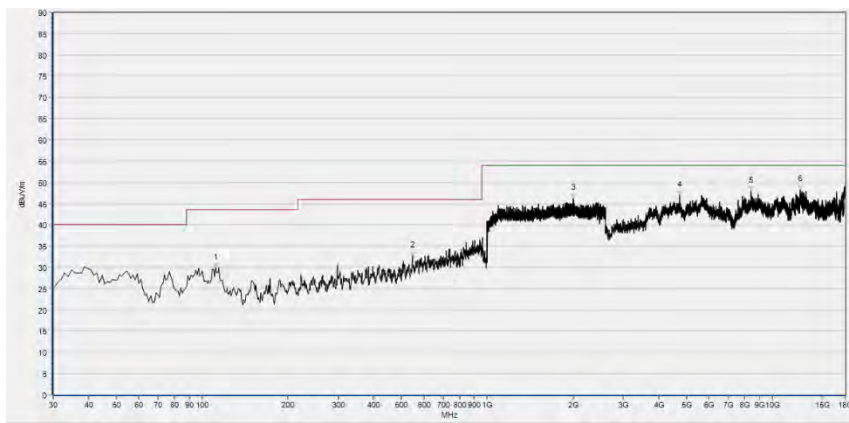


(Antenna Horizontal, 30MHz to 18GHz)



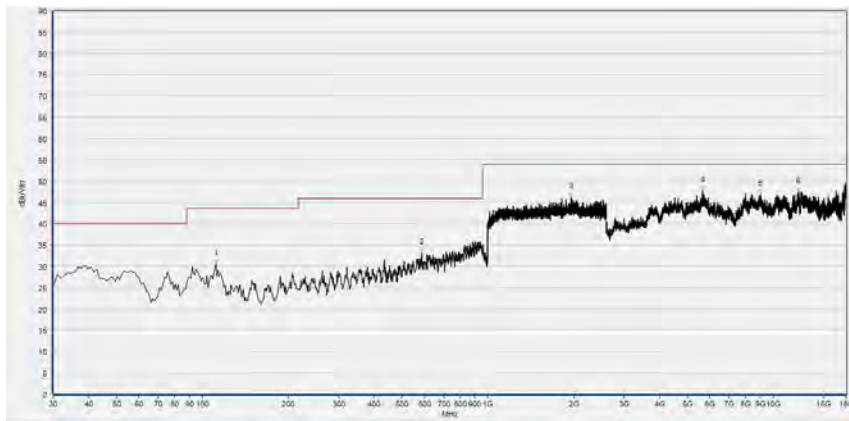
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 111.480 | 29.85 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 547.010 | 32.70 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2001.600 | 46.19 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 4722.120 | 46.93 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8418.120 | 48.01 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12526.840 | 48.26 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

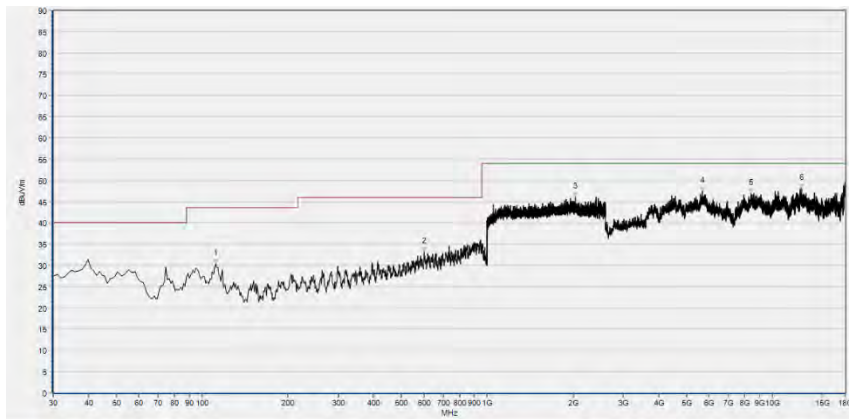
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 111.480 | 30.50 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 586.780 | 33.11 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1955.733 | 46.28 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5658.440 | 47.82 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 9012.560 | 46.86 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12203.440 | 47.36 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

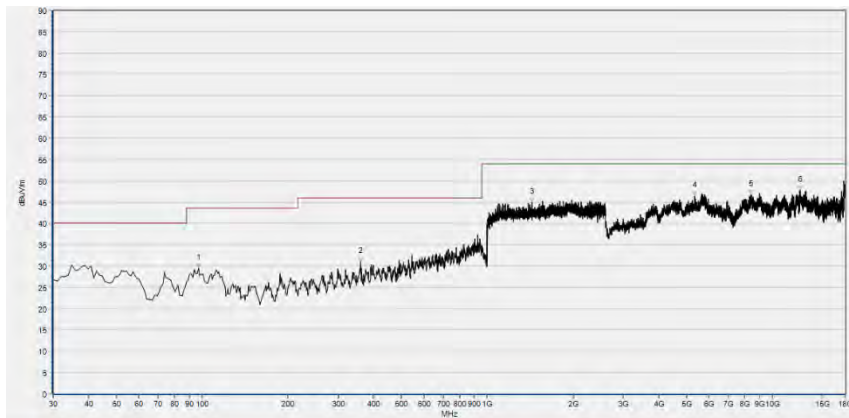
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 11



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 111.480 | 30.33 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 600.360 | 33.15 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 2036.267 | 46.02 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5670.760 | 47.35 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8433.520 | 46.89 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12671.600 | 48.10 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

(Antenna Horizontal, 30MHz to 18GHz)



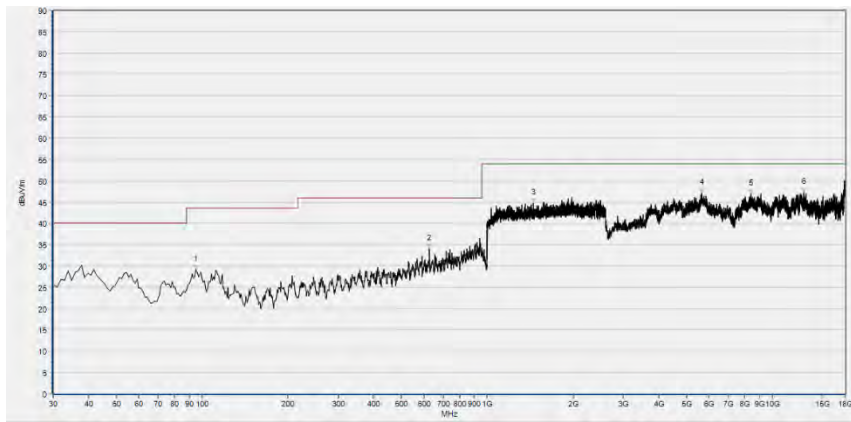
| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 96.930 | 29.42 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 358.830 | 30.98 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1431.467 | 44.96 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5350.440 | 46.40 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8411.960 | 46.80 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12545.320 | 47.71 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

(Antenna Vertical, 30MHz to 18GHz)



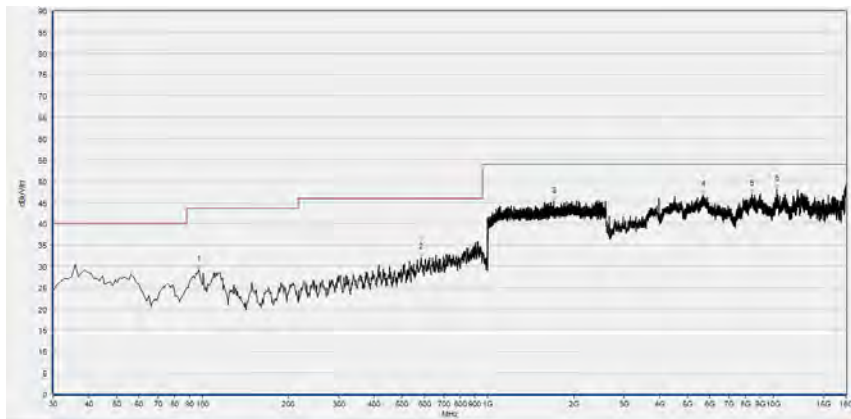
802.11ax (HEW40) Mode

Plot for Channel 3



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 94.990 | 29.12 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 626.550 | 34.04 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1450.667 | 44.73 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5667.680 | 47.08 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8418.120 | 46.87 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12896.440 | 47.27 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

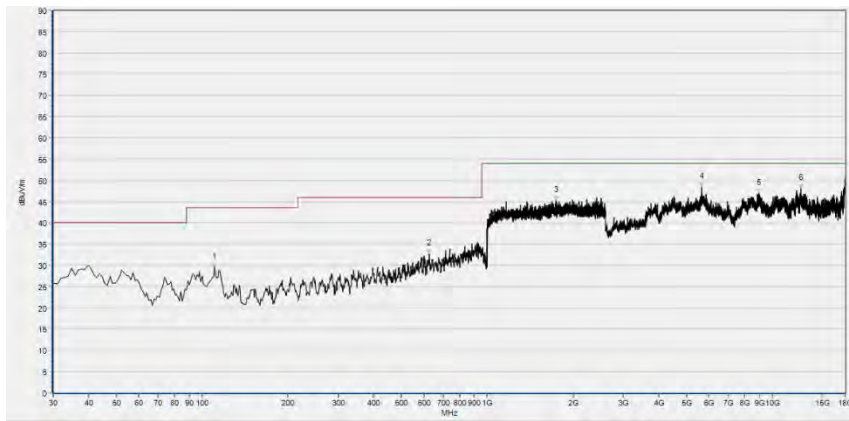
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 96.930 | 29.21 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 584.840 | 31.95 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1706.133 | 45.18 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5686.160 | 46.69 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8427.360 | 46.88 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 10275.360 | 48.13 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

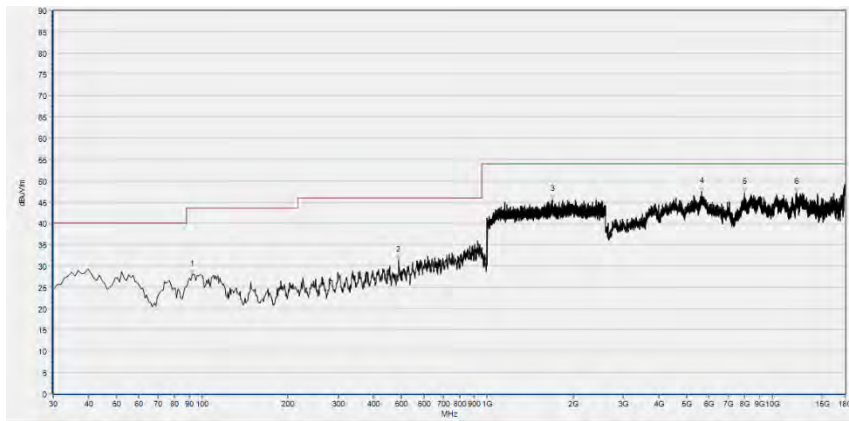
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 6



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 110.510 | 29.54 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 626.550 | 32.63 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1747.733 | 45.31 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5664.600 | 48.44 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8987.920 | 46.95 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12591.520 | 48.13 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

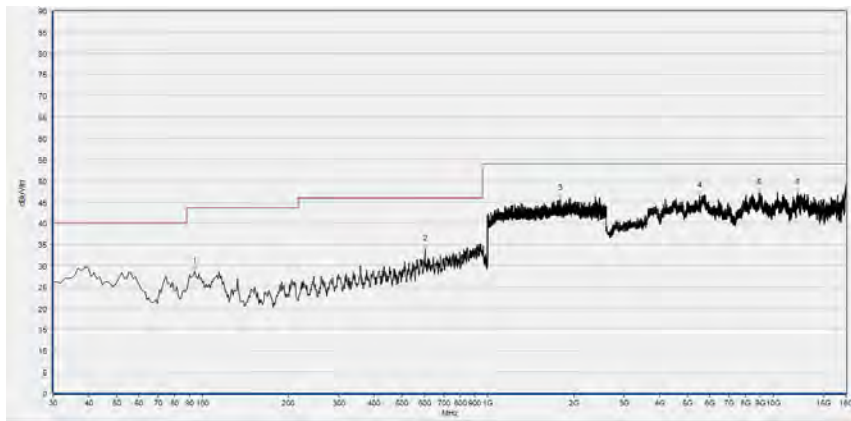
(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBµV/m) | QP (dBµV/m) | AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-QP (dBµV/m) | Limit-AV (dBµV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 92.080 | 28.03 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 487.840 | 31.26 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1694.400 | 45.54 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5664.600 | 47.38 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 7980.760 | 47.22 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 12191.120 | 47.23 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

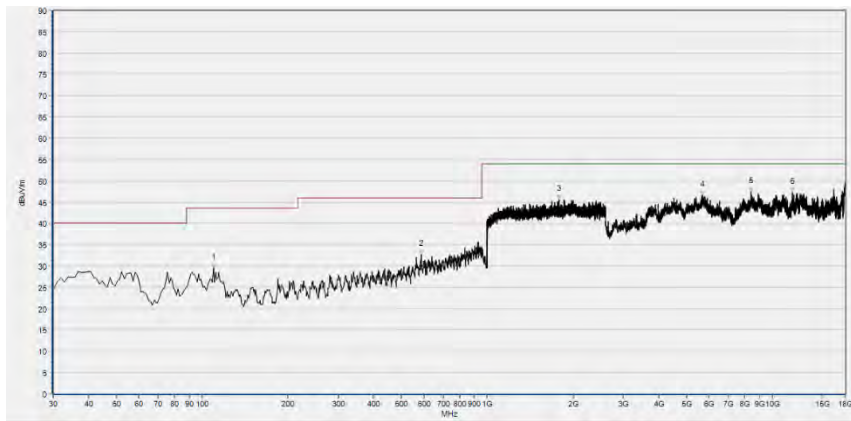
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 9



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 94.020 | 28.72 | N/A | N/A | N/A | 43.50 | N/A | Horizontal | PASS |
| 603.270 | 33.79 | N/A | N/A | N/A | 46.00 | N/A | Horizontal | PASS |
| 1794.667 | 45.74 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 5513.680 | 46.37 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 8929.400 | 47.02 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |
| 12197.280 | 47.14 | N/A | N/A | 74.00 | N/A | 54.00 | Horizontal | PASS |

(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 109.540 | 29.48 | N/A | N/A | N/A | 43.50 | N/A | Vertical | PASS |
| 586.780 | 32.71 | N/A | N/A | N/A | 46.00 | N/A | Vertical | PASS |
| 1782.933 | 45.54 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 5692.320 | 46.67 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 8421.200 | 47.48 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |
| 11753.760 | 47.31 | N/A | N/A | 74.00 | N/A | 54.00 | Vertical | PASS |

(Antenna Vertical, 30MHz to 18GHz)



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

| Test Items | Uncertainty |
|-----------------------------|---------------------|
| Peak Output Power | $\pm 2.22\text{dB}$ |
| Power Spectral Density | $\pm 2.22\text{dB}$ |
| Bandwidth | $\pm 5\%$ |
| Conducted Spurious Emission | $\pm 2.77\text{dB}$ |
| Restricted Frequency Bands | $\pm 5\%$ |
| Radiated Emission | $\pm 2.95\text{dB}$ |
| Conducted Emission | $\pm 2.44\text{dB}$ |

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



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

| | |
|----------------------------|--|
| Laboratory Name: | Shenzhen Morlab Communications Technology Co., Ltd. |
| Laboratory Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |
| Telephone: | +86 755 36698555 |
| Facsimile: | +86 755 36698525 |

2. Identification of the Responsible Testing Location

| | |
|-----------------|--|
| Name: | Shenzhen Morlab Communications Technology Co., Ltd. |
| Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China |

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Test Equipments

| Equipment Name | Serial No. | Type | Manufacturer | Cal. Date | Due Date |
|---------------------------|------------|-----------|--------------|------------|------------|
| Attenuator 1 | (N/A.) | 10dB | Resent | N/A | N/A |
| EXA Signal Analyzer | MY53470836 | N9010A | Agilent | 2021.03.25 | 2022.03.24 |
| USB Wideband Power Sensor | MY54210011 | U2021XA | Agilent | 2021.03.25 | 2022.03.24 |
| RF cable (30MHz-26GHz) | CB01 | RF01 | Morlab | N/A | N/A |
| Coaxial cable | CB02 | RF02 | Morlab | N/A | N/A |
| SMA connector | CN01 | RF03 | HUBER-SUHNER | N/A | N/A |
| Computer | T430i | Think Pad | Lenovo | N/A | N/A |

4.2 Conducted Emission Test Equipments

| Equipment Name | Serial No. | Type | Manufacturer | Cal. Date | Due Date |
|----------------------------------|--------------------|-------------|--------------|------------|------------|
| Receiver | MY56400093 | N9038A | KEYSIGHT | 2021.03.09 | 2022.03.08 |
| LISN | 812744 | NSLK 8127 | Schwarzbeck | 2021.03.09 | 2022.03.08 |
| Pulse Limiter (10dB) | VTSD 9561 F-B #206 | VTSD 9561-F | Schwarzbeck | 2021.07.21 | 2022.07.20 |
| Coaxial cable(BNC) (30MHz-26GHz) | CB01 | EMC01 | Morlab | N/A | N/A |

4.3 List of Software Used

| Description | Manufacturer | Software Version |
|------------------|--------------|------------------|
| Test System | Townsend | V2.5.77.0418 |
| MORLAB EMCR V1.2 | MORLAB | V1.0 |
| TS+ -[JS32-CE] | Tonscend | V2.5.0.0 |

**4.4 Radiated Test Equipments**

| Equipment Name | Serial No. | Type | Manufacturer | Cal. Date | Due Date |
|--------------------------------------|---------------|-----------------------|--------------|------------|------------|
| Receiver | MY54130016 | N9038A | Agilent | 2021.07.16 | 2022.07.15 |
| Test Antenna - Bi-Log | 9163-519 | VULB 9163 | Schwarzbeck | 2019.05.24 | 2022.05.23 |
| Test Antenna - Loop | 1519-022 | FMZB1519 | Schwarzbeck | 2019.02.14 | 2022.02.13 |
| Test Antenna – Horn | 01774 | BBHA 9120D | Schwarzbeck | 2019.07.26 | 2022.07.25 |
| Test Antenna – Horn | BBHA9170 #774 | BBHA9170 | Schwarzbeck | 2019.07.26 | 2022.07.25 |
| Coaxial cable (N male) (9kHz-30MHz) | CB04 | EMC04 | Morlab | N/A | N/A |
| Coaxial cable (N male) (30MHz-26GHz) | CB02 | EMC02 | Morlab | N/A | N/A |
| Coaxial cable (N male) (30MHz-26GHz) | CB03 | EMC03 | Morlab | N/A | N/A |
| Coaxial cable (N male) (30MHz-40GHz) | CB05 | EMC05 | Morlab | N/A | N/A |
| 1-18GHz pre-Amplifier | 61171/61172 | S020180L32 03 | Tonscend | 2021.07.16 | 2022.07.15 |
| 18-26.5GHz pre-Amplifier | 46732 | S10M100L38 02 | Tonscend | 2021.07.16 | 2022.07.15 |
| 26-40GHz pre-Amplifier | 56774 | S40M400L40 02 | Tonscend | 2021.07.16 | 2022.07.15 |
| Notch Filter | N/A | WRCG-2400-2483.5-60SS | Wainwright | 2021.07.16 | 2022.07.15 |
| Anechoic Chamber | N/A | 9m*6m*6m | CRT | 2020.01.06 | 2023.01.05 |

————— END OF REPORT —————