



|      |                     |      |      |        |   |        |      |      |
|------|---------------------|------|------|--------|---|--------|------|------|
|      | MIMO                |      |      |        |   |        |      |      |
| NVNT | ax20 106@53<br>MIMO | 2437 | Sum  | -9.27  | 0 | -9.27  | 7.99 | Pass |
| NVNT | ax20 106@54<br>SISO | 2462 | Ant1 | -13.23 | 0 | -13.23 | 8    | Pass |
| NVNT | ax20 106@54<br>SISO | 2462 | Ant2 | -13.09 | 0 | -13.09 | 8    | Pass |
| NVNT | ax20 106@54<br>MIMO | 2462 | Ant1 | -12.76 | 0 | -12.76 | 8    | Pass |
| NVNT | ax20 106@54<br>MIMO | 2462 | Ant2 | -13.84 | 0 | -13.84 | 8    | Pass |
| NVNT | ax20 106@54<br>MIMO | 2462 | Sum  | -10.26 | 0 | -10.26 | 7.99 | Pass |
| NVNT | ax40 242@61<br>SISO | 2422 | Ant1 | -15.02 | 0 | -15.02 | 8    | Pass |
| NVNT | ax40 242@61<br>SISO | 2437 | Ant1 | -14.74 | 0 | -14.74 | 8    | Pass |
| NVNT | ax40 242@61<br>SISO | 2422 | Ant2 | -14.77 | 0 | -14.77 | 8    | Pass |
| NVNT | ax40 242@61<br>SISO | 2437 | Ant2 | -15.3  | 0 | -15.3  | 8    | Pass |
| NVNT | ax40 242@61<br>MIMO | 2422 | Ant1 | -15.14 | 0 | -15.14 | 8    | Pass |
| NVNT | ax40 242@61<br>MIMO | 2422 | Ant2 | -15.72 | 0 | -15.72 | 8    | Pass |
| NVNT | ax40 242@61<br>MIMO | 2422 | Sum  | -12.41 | 0 | -12.41 | 7.99 | Pass |
| NVNT | ax40 242@61<br>MIMO | 2437 | Ant1 | -15.2  | 0 | -15.2  | 8    | Pass |
| NVNT | ax40 242@61<br>MIMO | 2437 | Ant2 | -16.1  | 0 | -16.1  | 8    | Pass |
| NVNT | ax40 242@61<br>MIMO | 2437 | Sum  | -12.62 | 0 | -12.62 | 7.99 | Pass |
| NVNT | ax40 242@62<br>SISO | 2452 | Ant1 | -14.2  | 0 | -14.2  | 8    | Pass |
| NVNT | ax40 242@62<br>SISO | 2452 | Ant2 | -14.62 | 0 | -14.62 | 8    | Pass |
| NVNT | ax40 242@62<br>MIMO | 2452 | Ant1 | -14.22 | 0 | -14.22 | 8    | Pass |



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|      |                     |      |      |        |   |        |      |      |
|------|---------------------|------|------|--------|---|--------|------|------|
| NVNT | ax40 242@62<br>MIMO | 2452 | Ant2 | -14.86 | 0 | -14.86 | 8    | Pass |
| NVNT | ax40 242@62<br>MIMO | 2452 | Sum  | -11.52 | 0 | -11.52 | 7.99 | Pass |

## Test Graphs

## PSD NVNT b 2412MHz Ant1 SISO

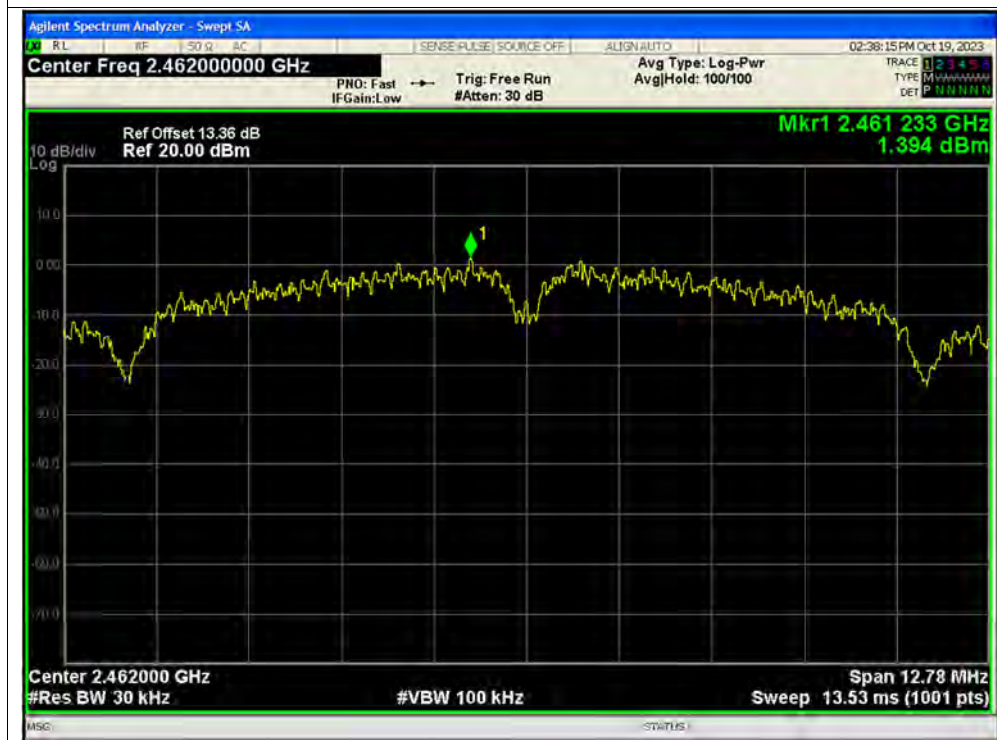


## PSD NVNT b 2437MHz Ant1 SISO

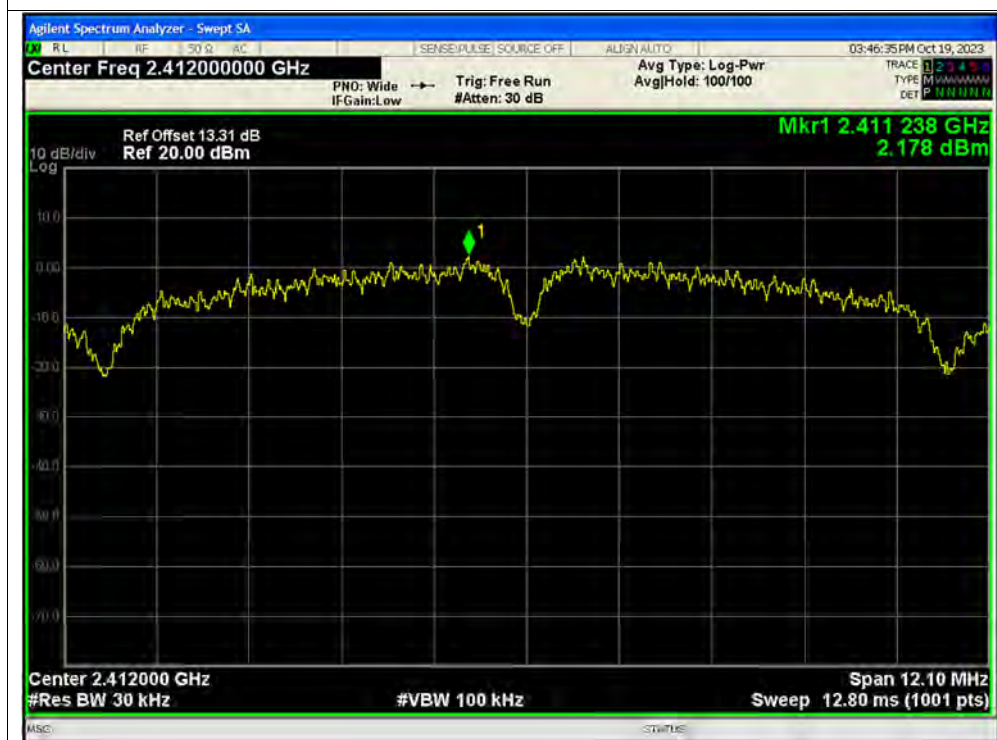




## PSD NVNT b 2462MHz Ant1 SISO

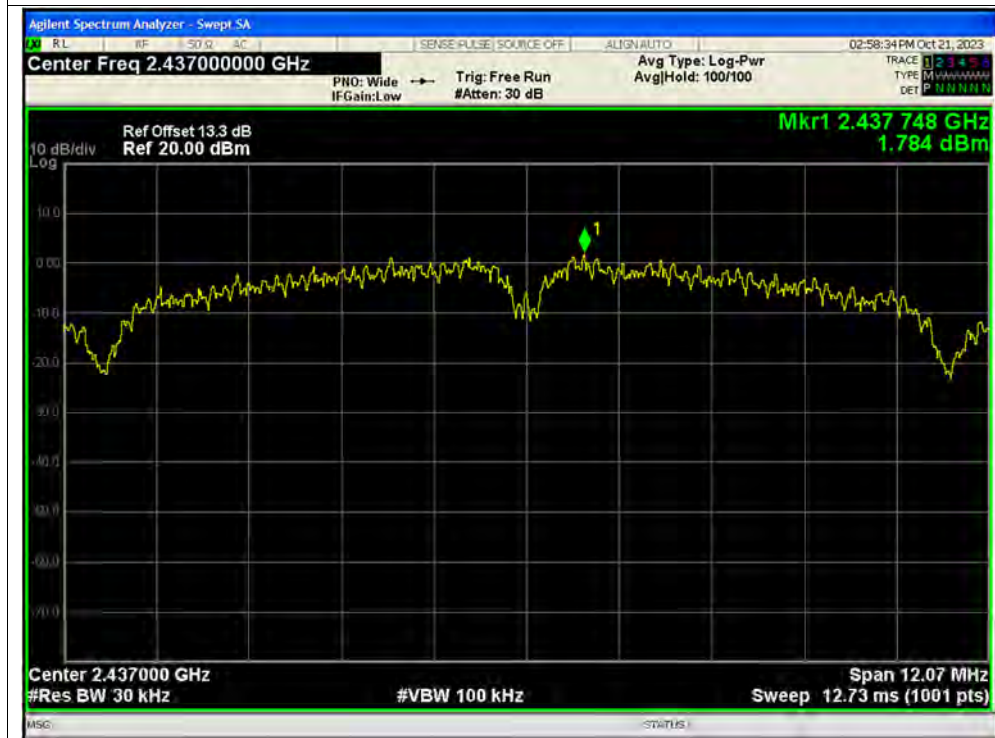


## PSD NVNT b 2412MHz Ant2 SISO





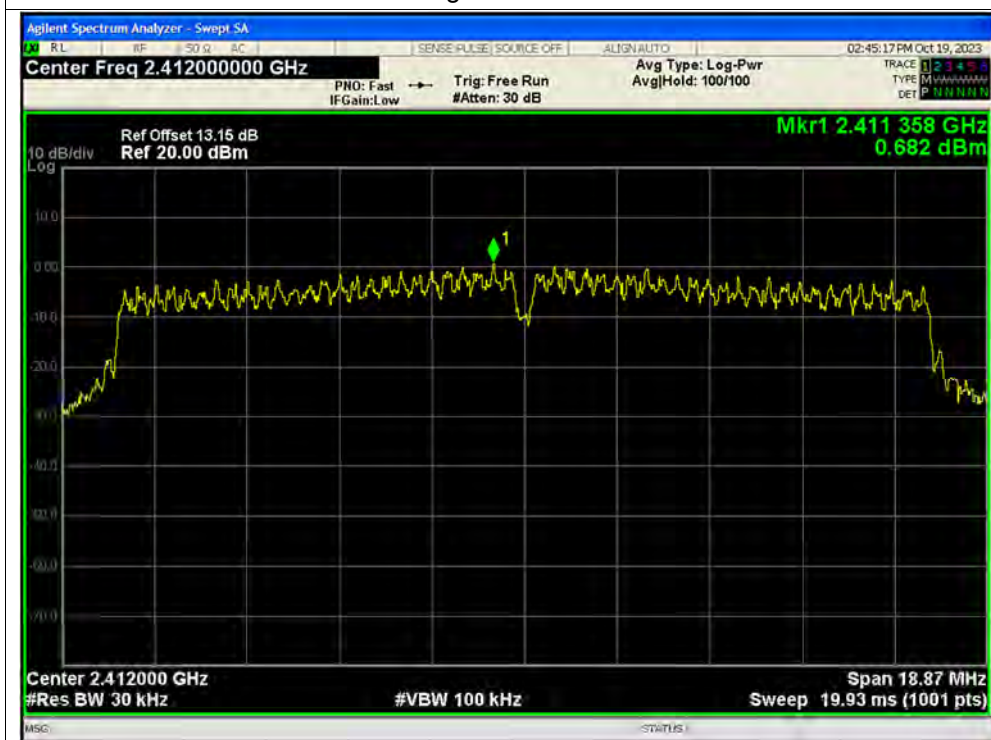
## PSD NVNT b 2437MHz Ant2 SISO



## PSD NVNT b 2462MHz Ant2 SISO



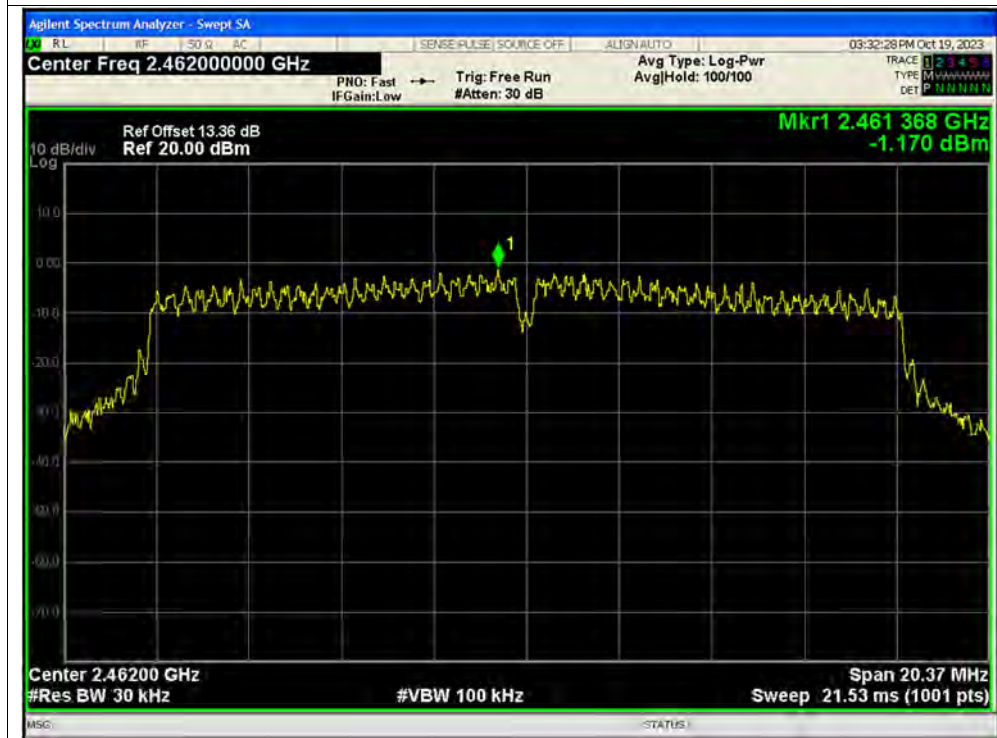
## PSD NVNT g 2412MHz Ant1 SISO



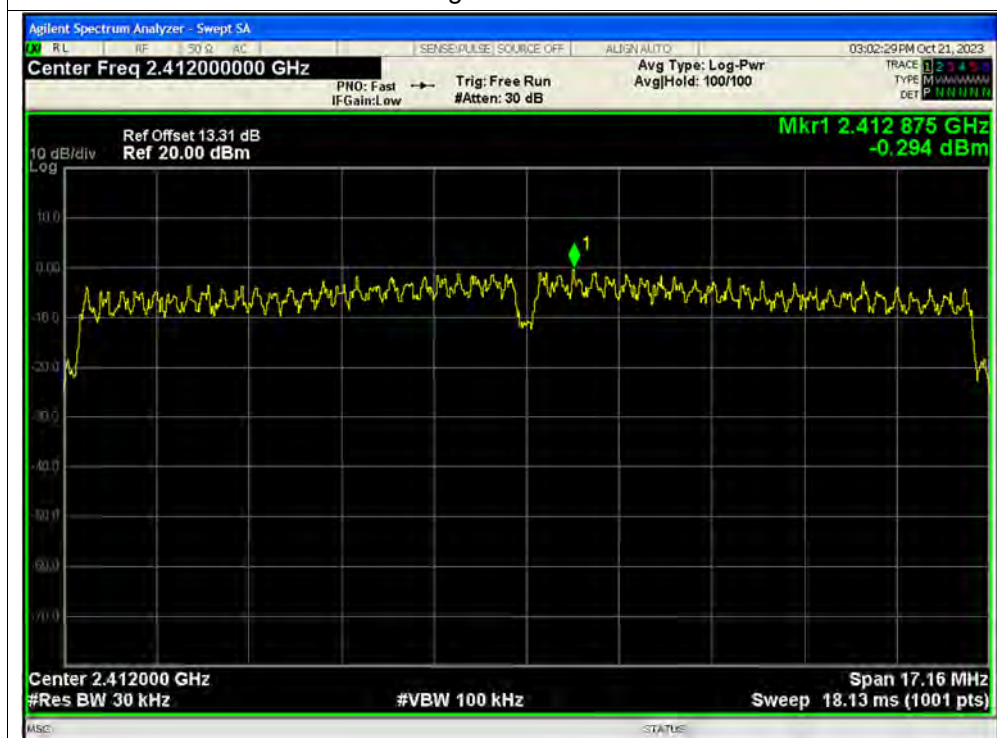
## PSD NVNT g 2437MHz Ant1 SISO



## PSD NVNT g 2462MHz Ant1 SISO



## PSD NVNT g 2412MHz Ant2 SISO



## PSD NVNT g 2437MHz Ant2 SISO

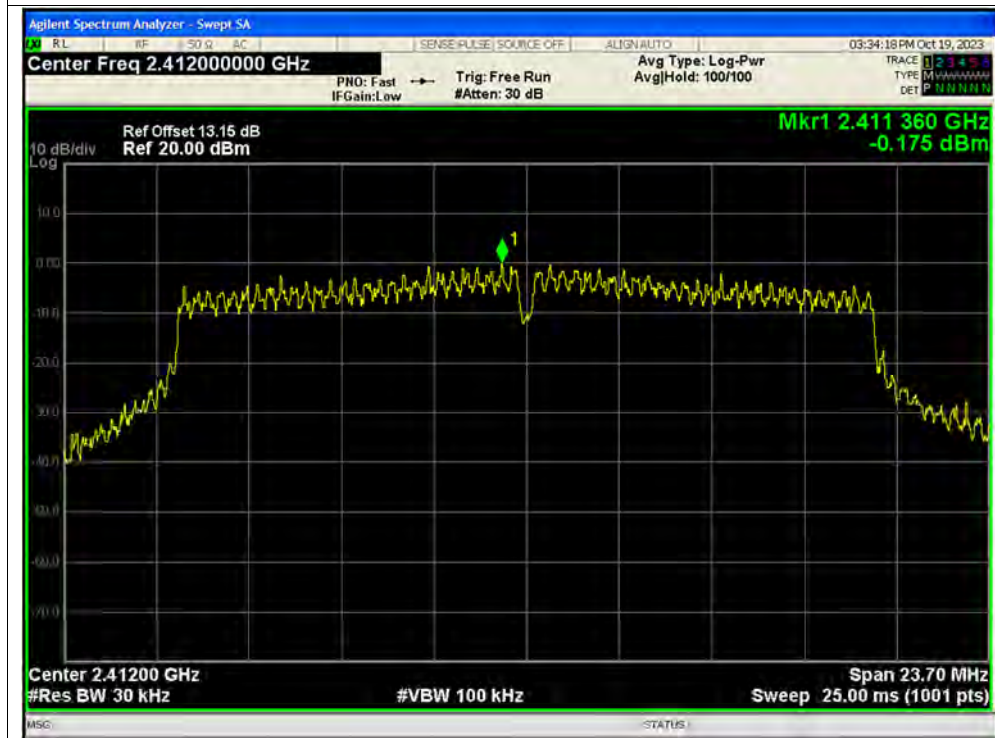


## PSD NVNT g 2462MHz Ant2 SISO





## PSD NVNT n20 2412MHz Ant1 SISO

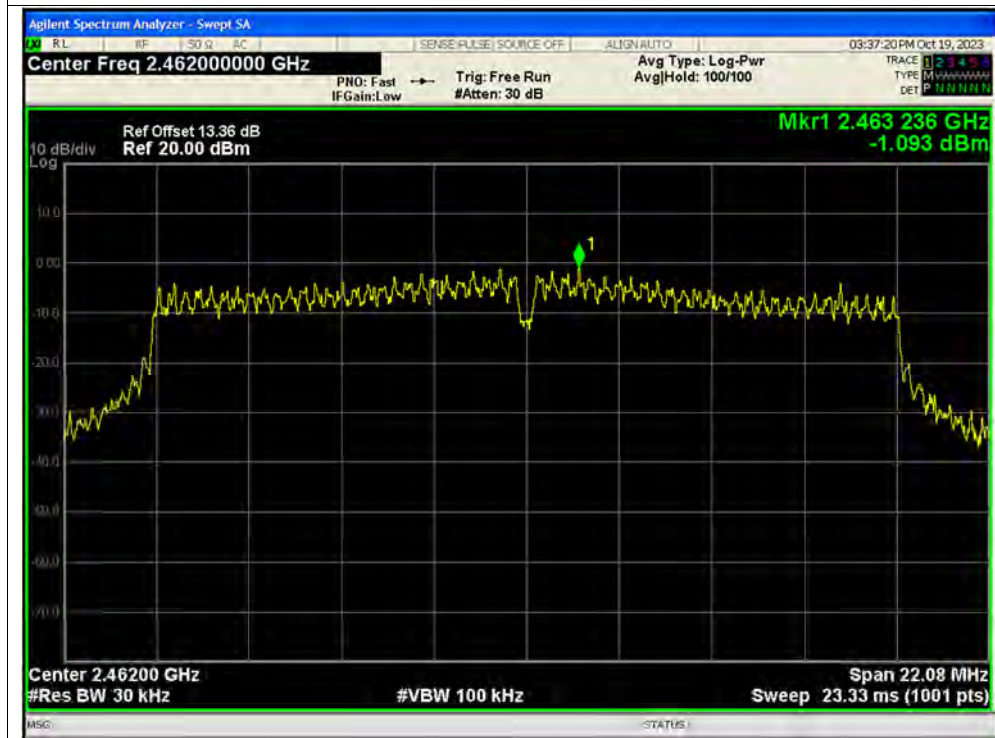


## PSD NVNT n20 2437MHz Ant1 SISO

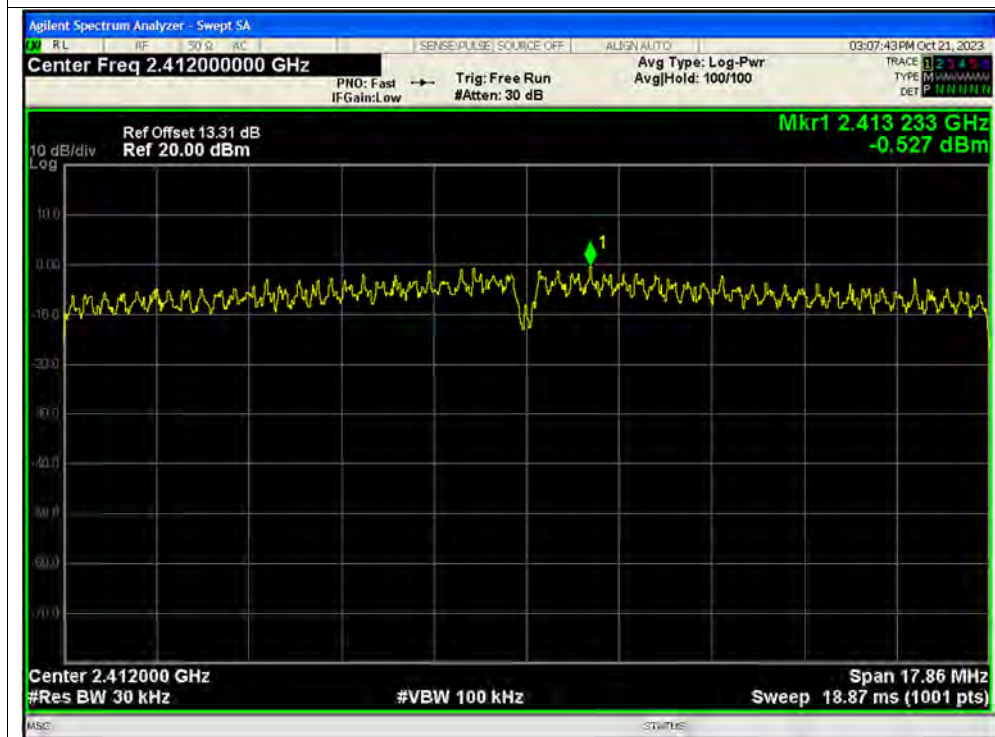




## PSD NVNT n20 2462MHz Ant1 SISO

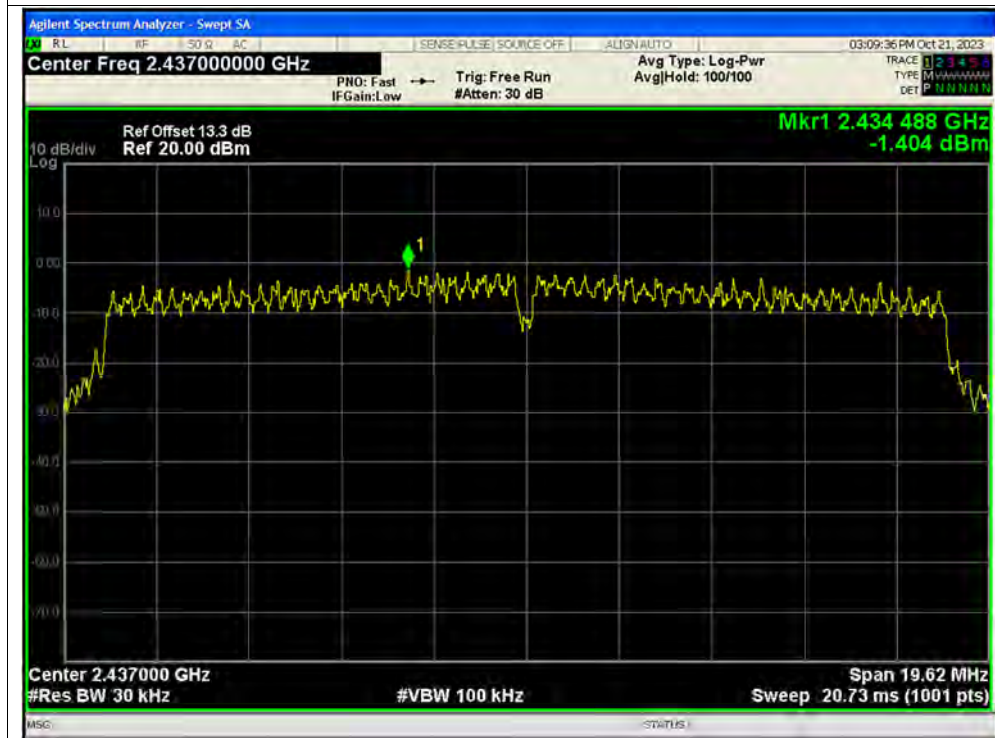


## PSD NVNT n20 2412MHz Ant2 SISO

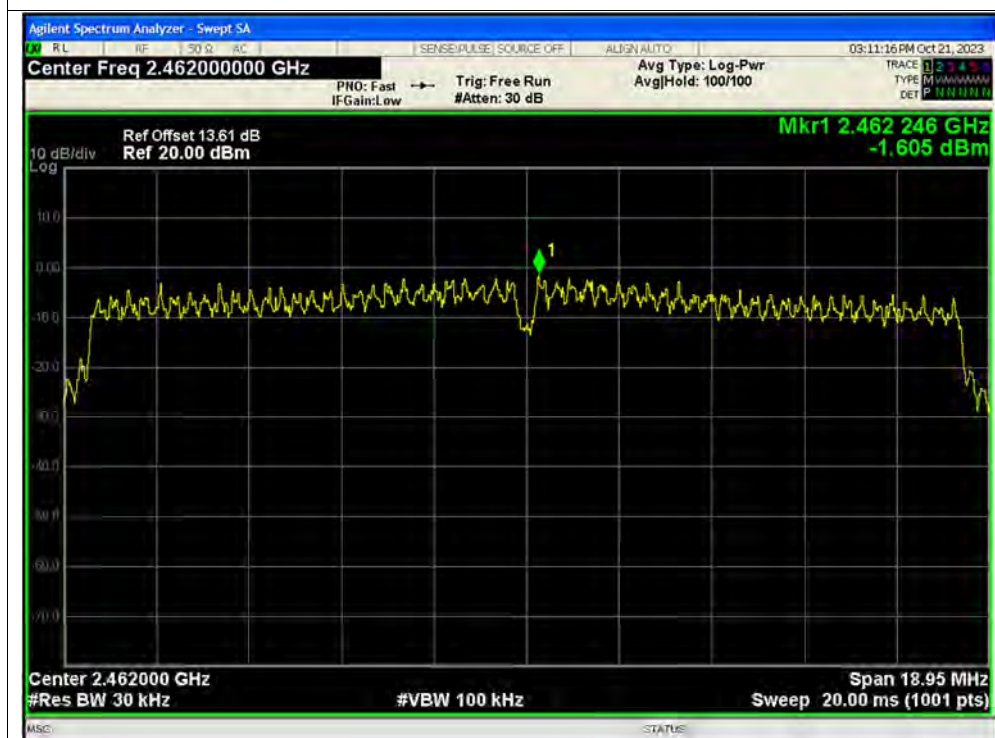




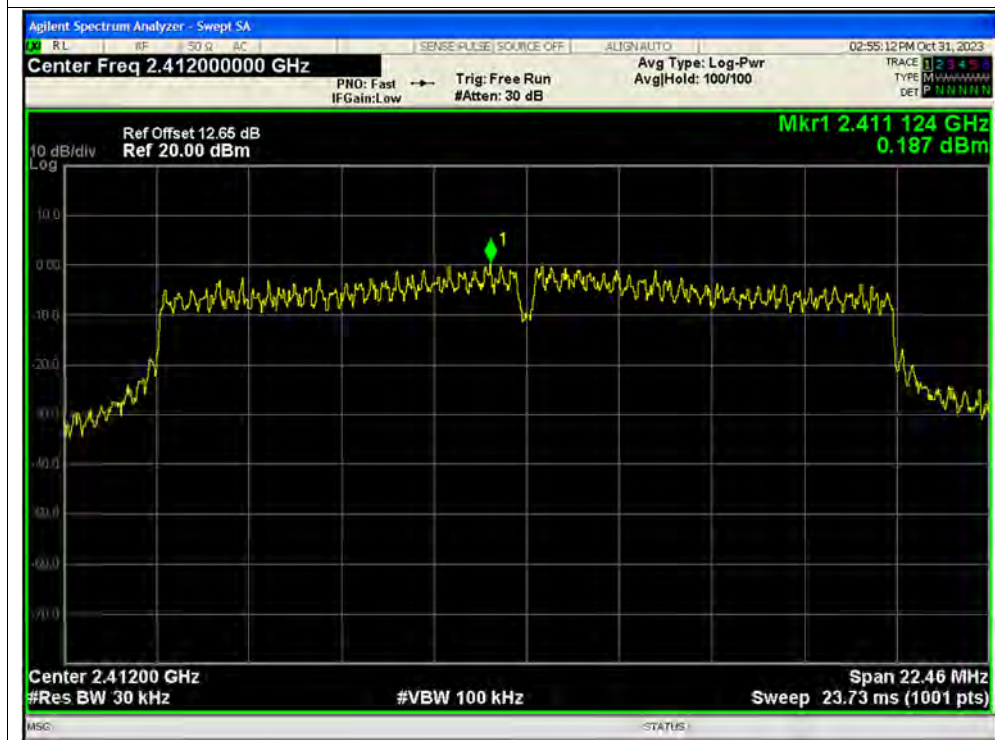
## PSD NVNT n20 2437MHz Ant2 SISO



## PSD NVNT n20 2462MHz Ant2 SISO



## PSD NVNT n20 2412MHz Ant1 MIMO



## PSD NVNT n20 2412MHz Ant2 MIMO





## PSD NVNT n20 2437MHz Ant1 MIMO



## PSD NVNT n20 2437MHz Ant2 MIMO



PSD NVNT n20 2462MHz Ant1 MIMO



PSD NVNT n20 2462MHz Ant2 MIMO



## PSD NVNT n40 2422MHz Ant1 SISO



## PSD NVNT n40 2437MHz Ant1 SISO



## PSD NVNT n40 2452MHz Ant1 SISO



## PSD NVNT n40 2422MHz Ant2 SISO



## PSD NVNT n40 2437MHz Ant2 SISO



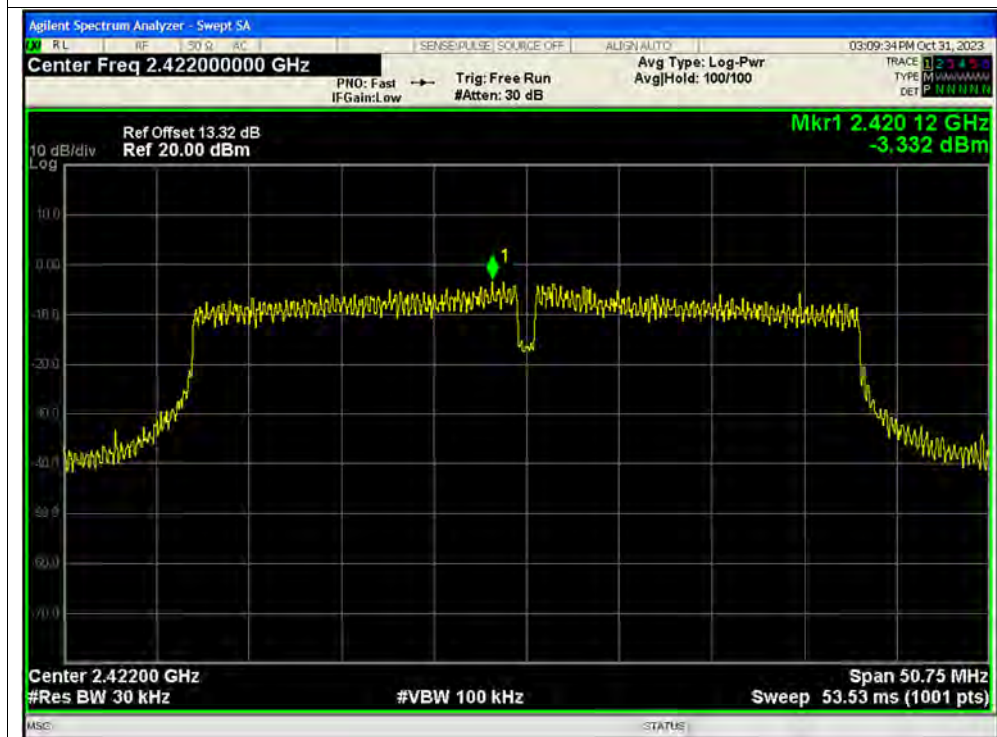
## PSD NVNT n40 2452MHz Ant2 SISO



PSD NVNT n40 2422MHz Ant1 MIMO



PSD NVNT n40 2422MHz Ant2 MIMO



## PSD NVNT n40 2437MHz Ant1 MIMO



## PSD NVNT n40 2437MHz Ant2 MIMO



## PSD NVNT n40 2452MHz Ant1 MIMO



## PSD NVNT n40 2452MHz Ant2 MIMO



PSD NVNT ax20 2412MHz Ant1 SISO



PSD NVNT ax20 2437MHz Ant1 SISO



PSD NVNT ax20 2462MHz Ant1 SISO



PSD NVNT ax20 2412MHz Ant2 SISO



PSD NVNT ax20 2437MHz Ant2 SISO



PSD NVNT ax20 2462MHz Ant2 SISO



## PSD NVNT ax20 2412MHz Ant1 MIMO



## PSD NVNT ax20 2412MHz Ant2 MIMO



## PSD NVNT ax20 2437MHz Ant1 MIMO



## PSD NVNT ax20 2437MHz Ant2 MIMO



PSD NVNT ax20 2462MHz Ant1 MIMO



PSD NVNT ax20 2462MHz Ant2 MIMO



## PSD NVNT ax40 2422MHz Ant1 SISO



## PSD NVNT ax40 2437MHz Ant1 SISO



PSD NVNT ax40 2452MHz Ant1 SISO



PSD NVNT ax40 2422MHz Ant2 SISO





## PSD NVNT ax40 2437MHz Ant2 SISO



## PSD NVNT ax40 2452MHz Ant2 SISO



PSD NVNT ax40 2422MHz Ant1 MIMO



PSD NVNT ax40 2422MHz Ant2 MIMO



## PSD NVNT ax40 2437MHz Ant1 MIMO



## PSD NVNT ax40 2437MHz Ant2 MIMO



PSD NVNT ax40 2452MHz Ant1 MIMO



PSD NVNT ax40 2452MHz Ant2 MIMO



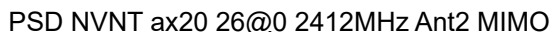


## PSD NVNT ax20 26@0 2412MHz Ant1 SISO



## PSD NVNT ax20 26@0 2412MHz Ant2 SISO





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## PSD NVNT ax20 26@4 2437MHz Ant1 SISO



## PSD NVNT ax20 26@4 2437MHz Ant2 SISO





## PSD NVNT ax20 26@4 2437MHz Ant1 MIMO



## PSD NVNT ax20 26@4 2437MHz Ant2 MIMO



## PSD NVNT ax20 26@8 2462MHz Ant1 SISO



## PSD NVNT ax20 26@8 2462MHz Ant2 SISO





## PSD NVNT ax20 26@8 2462MHz Ant1 MIMO



## PSD NVNT ax20 26@8 2462MHz Ant2 MIMO





## PSD NVNT ax20 52@37 2412MHz Ant1 SISO



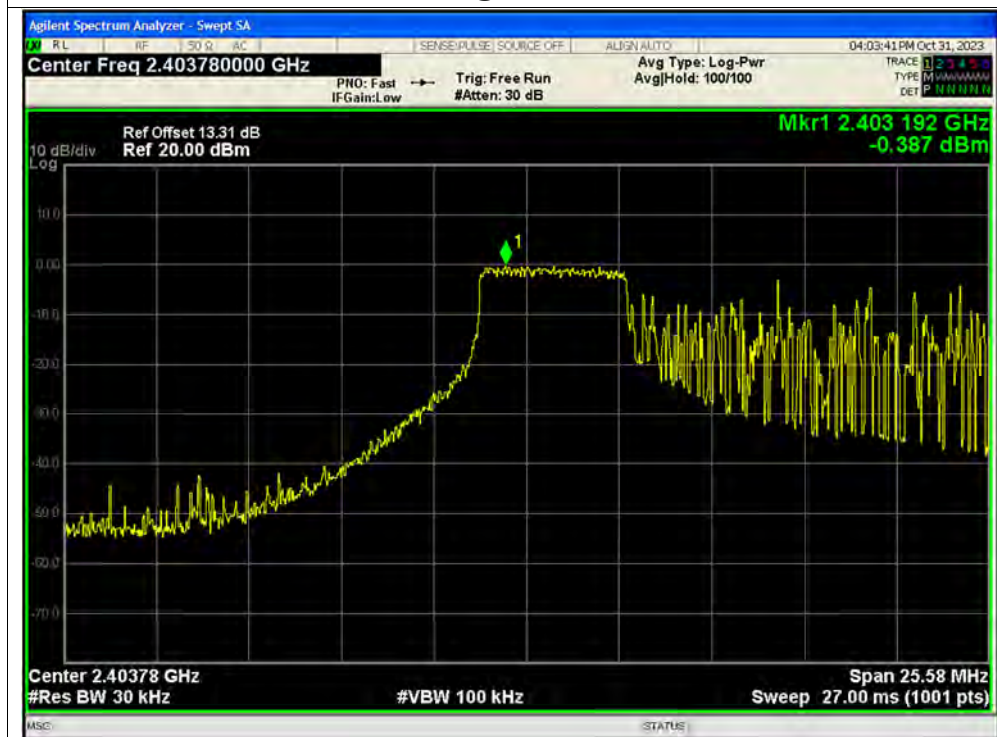
## PSD NVNT ax20 52@37 2412MHz Ant2 SISO



PSD NVNT ax20 52@37 2412MHz Ant1 MIMO



PSD NVNT ax20 52@37 2412MHz Ant2 MIMO





## PSD NVNT ax20 52@38 2437MHz Ant1 SISO



## PSD NVNT ax20 52@38 2437MHz Ant2 SISO

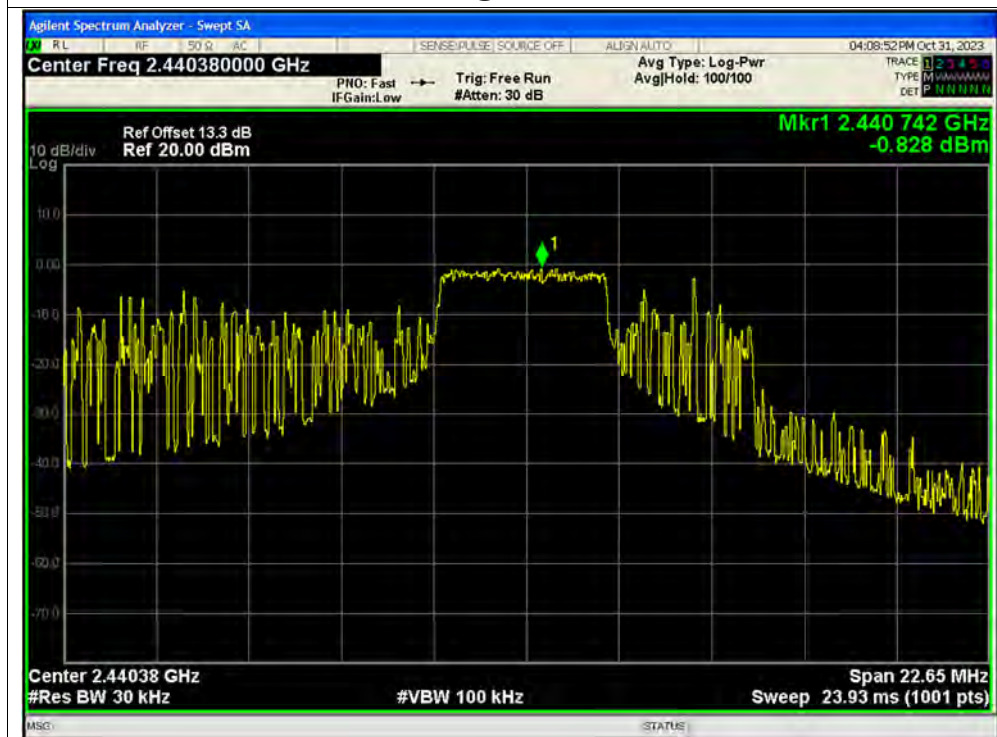




## PSD NVNT ax20 52@38 2437MHz Ant1 MIMO



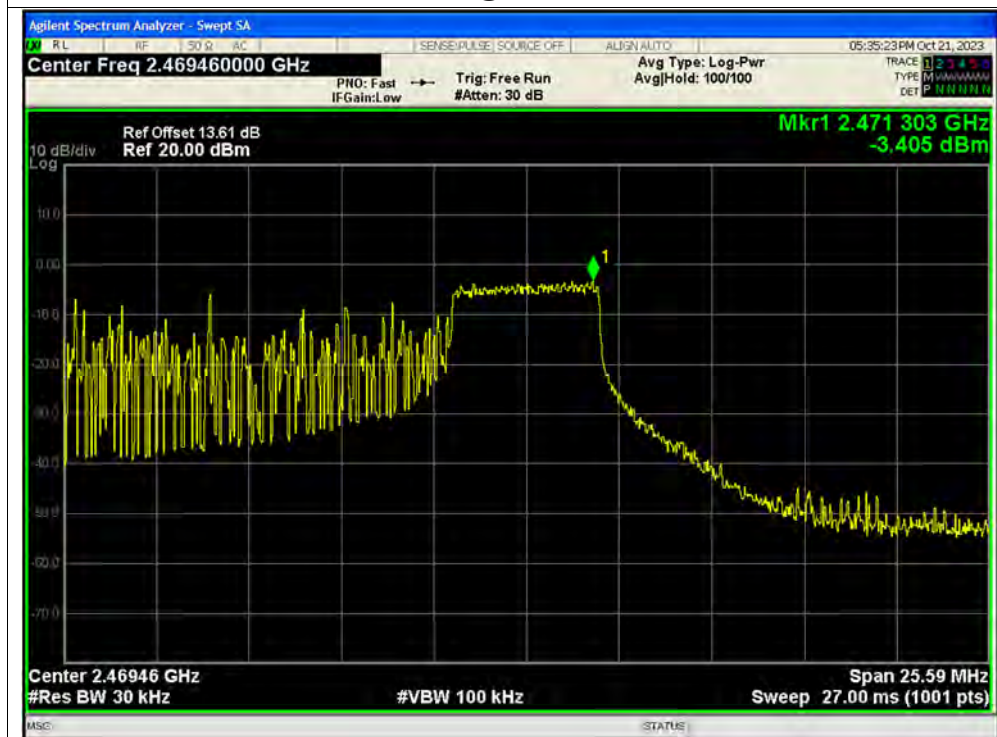
## PSD NVNT ax20 52@38 2437MHz Ant2 MIMO



## PSD NVNT ax20 52@40 2462MHz Ant1 SISO



## PSD NVNT ax20 52@40 2462MHz Ant2 SISO



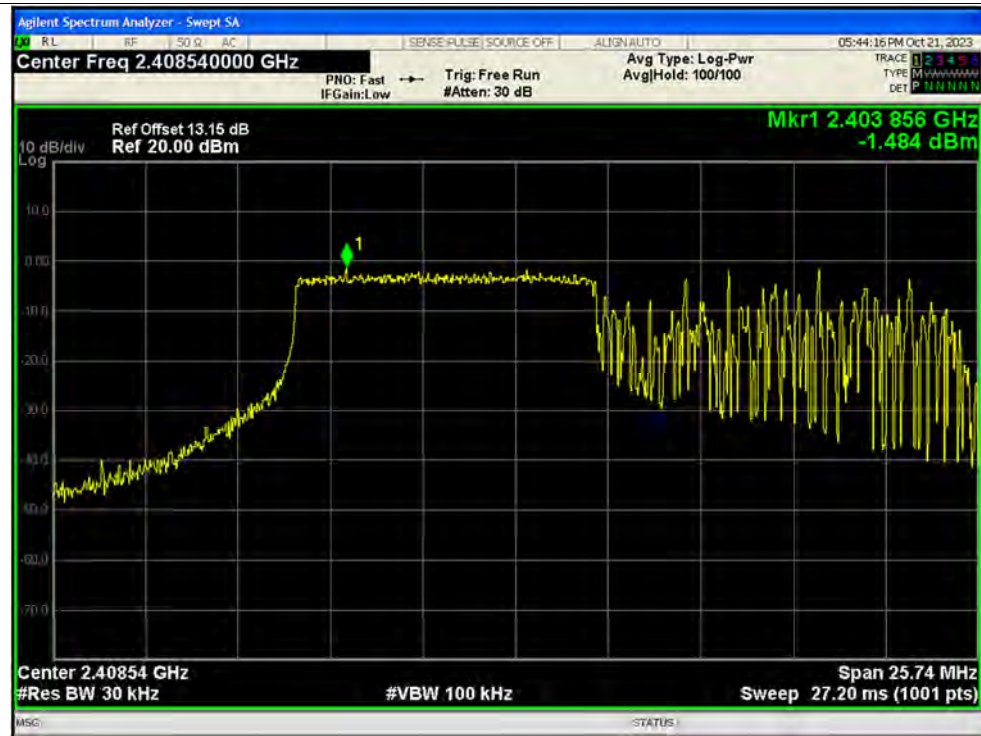
PSD NVNT ax20 52@40 2462MHz Ant1 MIMO



PSD NVNT ax20 52@40 2462MHz Ant2 MIMO



## PSD NVNT ax20 106@53 2412MHz Ant1 SISO



## PSD NVNT ax20 106@53 2437MHz Ant1 SISO



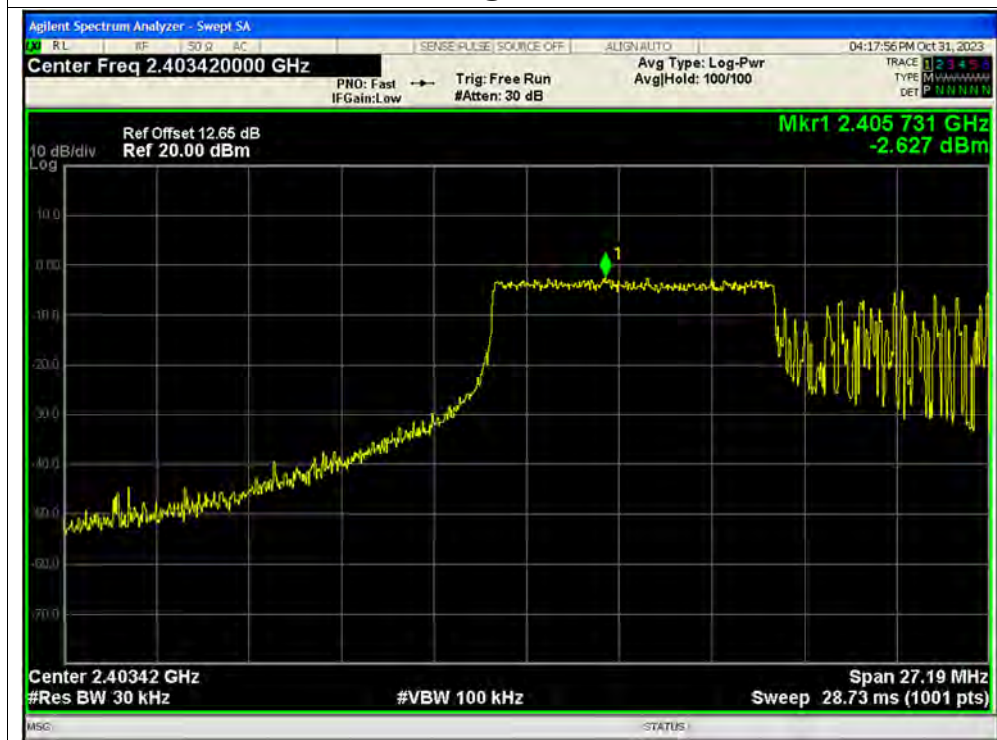
## PSD NVNT ax20 106@53 2412MHz Ant2 SISO



## PSD NVNT ax20 106@53 2437MHz Ant2 SISO



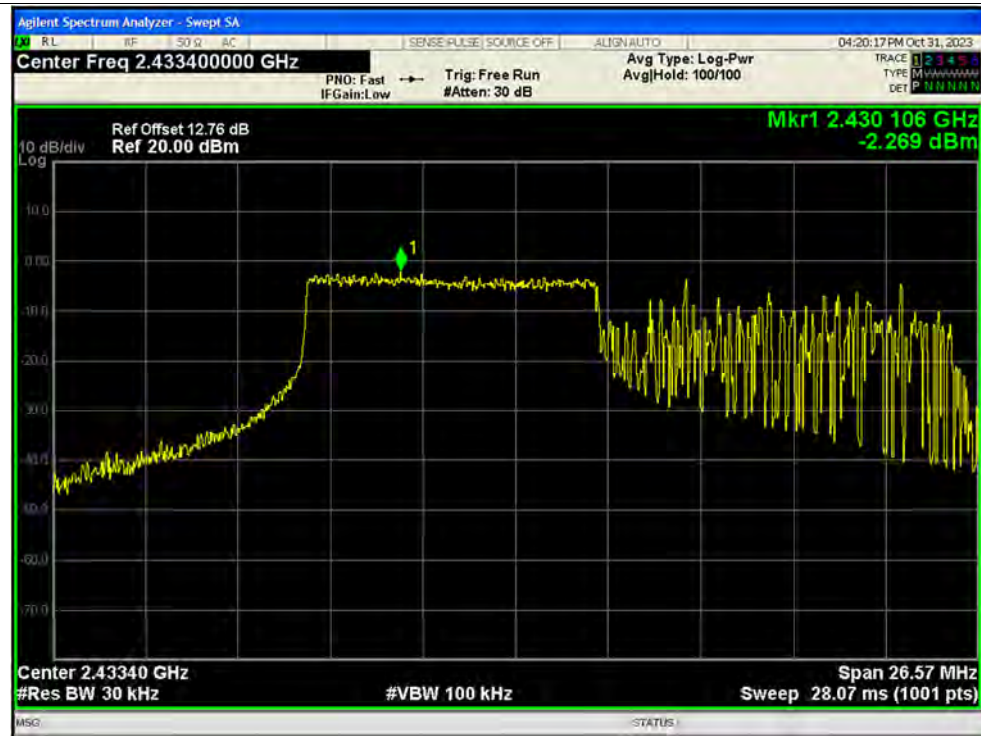
## PSD NVNT ax20 106@53 2412MHz Ant1 MIMO



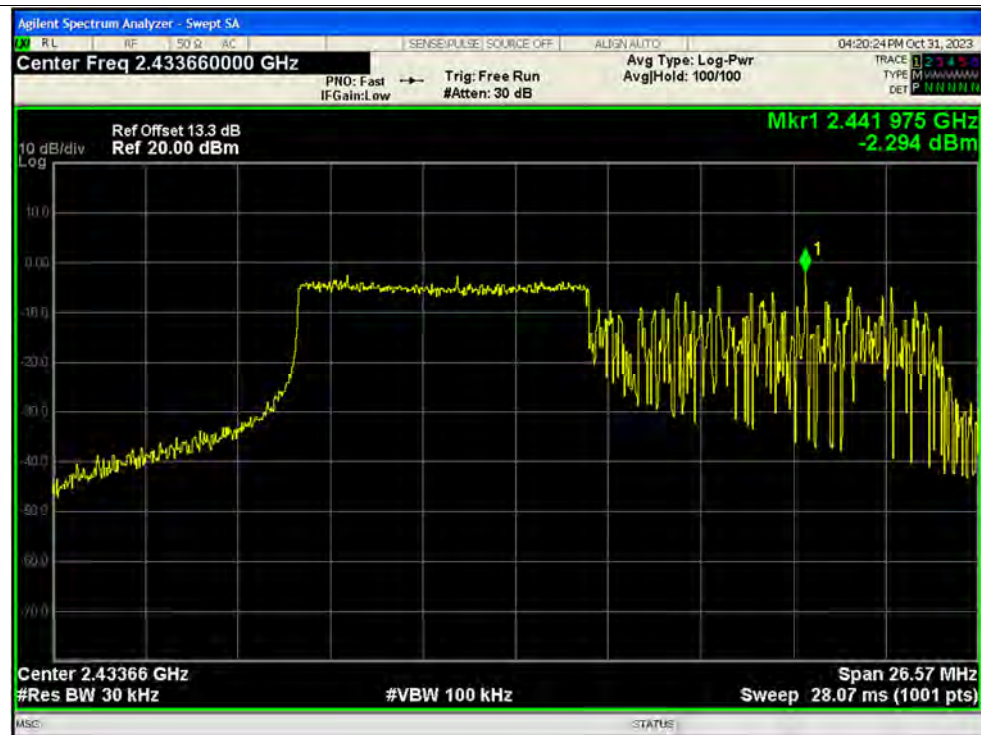
## PSD NVNT ax20 106@53 2412MHz Ant2 MIMO



PSD NVNT ax20 106@53 2437MHz Ant1 MIMO

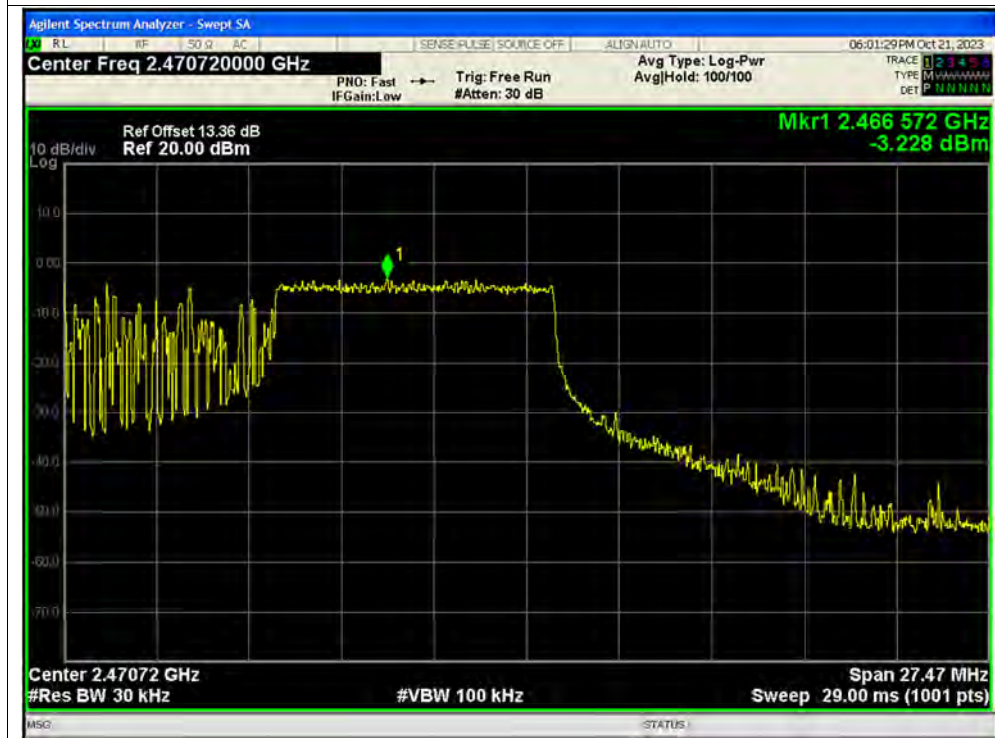


PSD NVNT ax20 106@53 2437MHz Ant2 MIMO





## PSD NVNT ax20 106@54 2462MHz Ant1 SISO



## PSD NVNT ax20 106@54 2462MHz Ant2 SISO



PSD NVNT ax20 106@54 2462MHz Ant1 MIMO



PSD NVNT ax20 106@54 2462MHz Ant2 MIMO





## PSD NVNT ax40 242@61 2422MHz Ant1 SISO



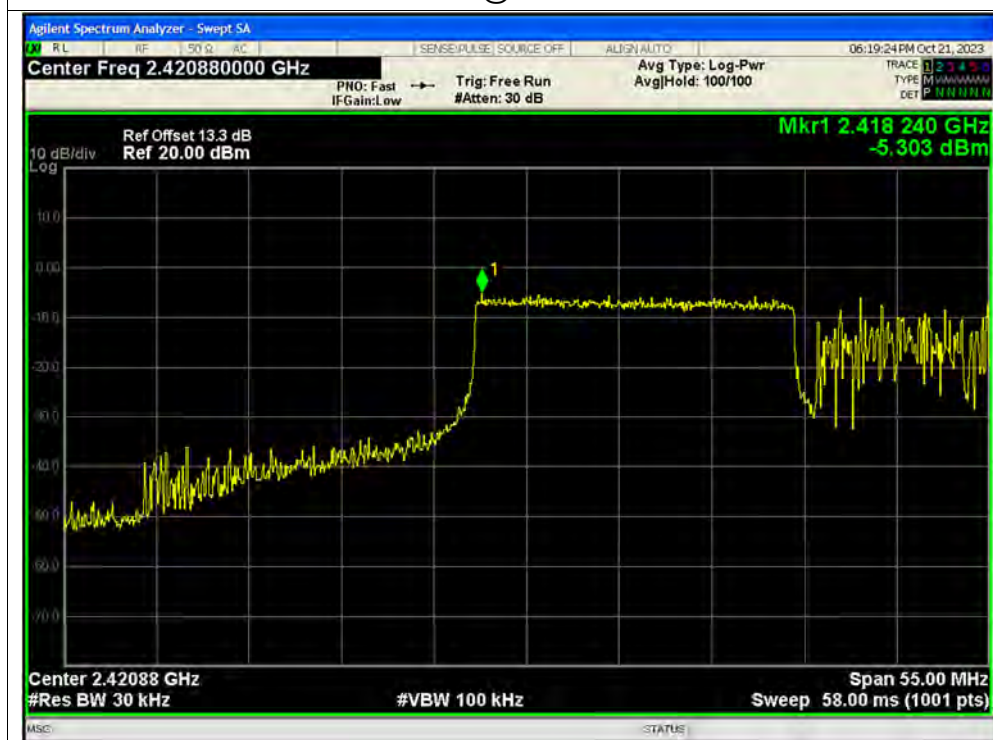
## PSD NVNT ax40 242@61 2437MHz Ant1 SISO



## PSD NVNT ax40 242@61 2422MHz Ant2 SISO



## PSD NVNT ax40 242@61 2437MHz Ant2 SISO



## PSD NVNT ax40 242@61 2422MHz Ant1 MIMO



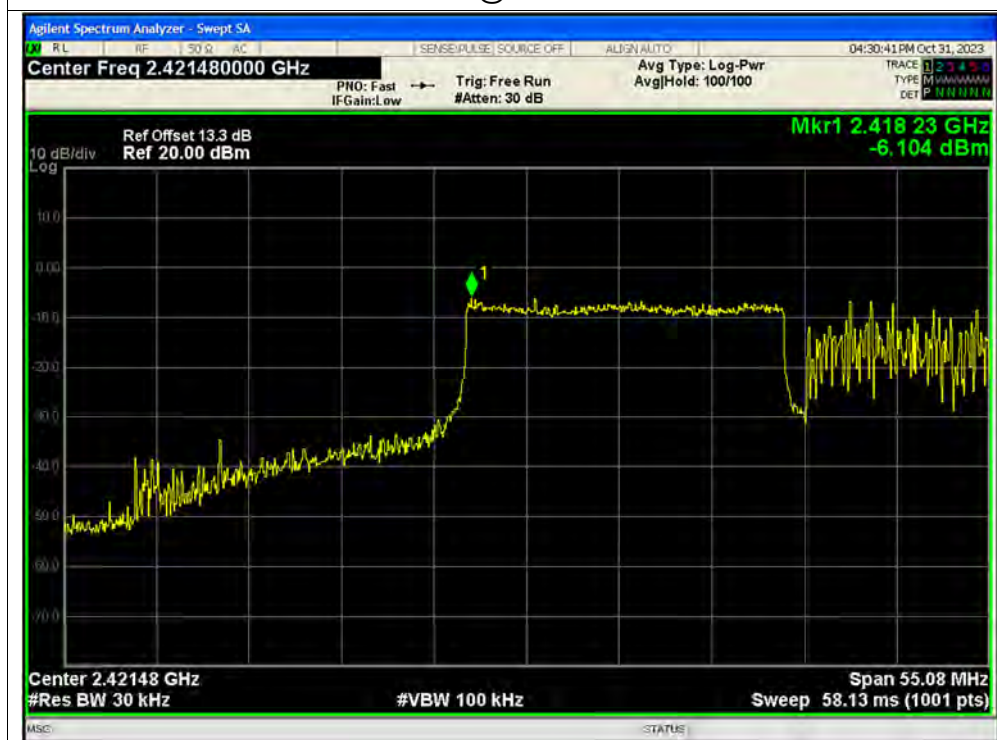
## PSD NVNT ax40 242@61 2422MHz Ant2 MIMO



PSD NVNT ax40 242@61 2437MHz Ant1 MIMO



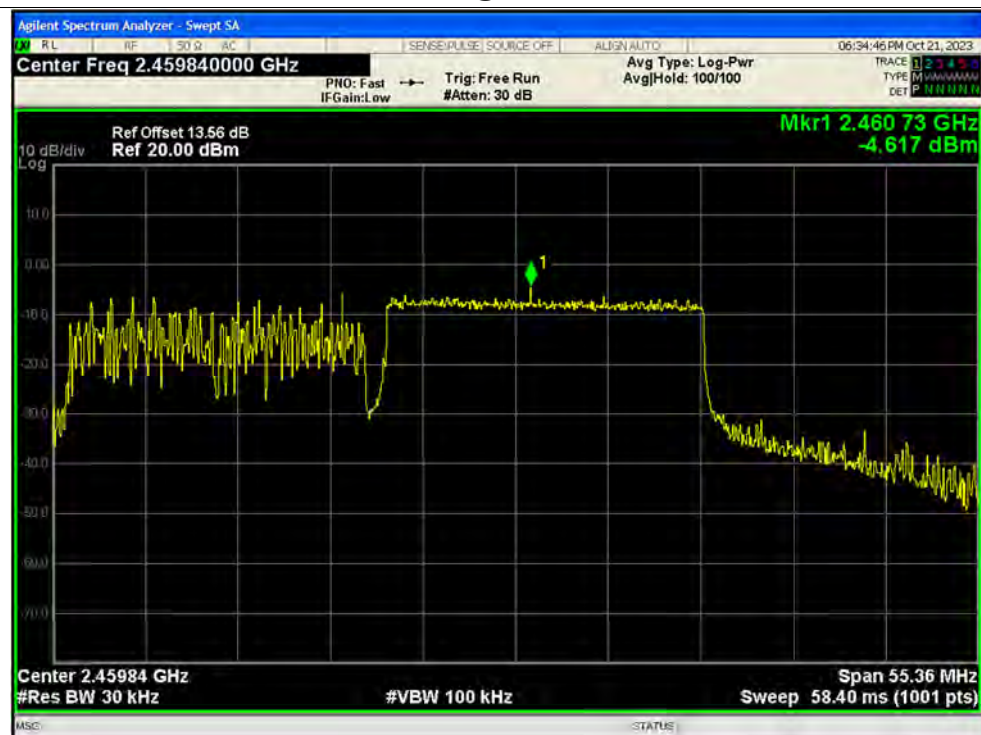
PSD NVNT ax40 242@61 2437MHz Ant2 MIMO



## PSD NVNT ax40 242@62 2452MHz Ant1 SISO



## PSD NVNT ax40 242@62 2452MHz Ant2 SISO





## PSD NVNT ax40 242@62 2452MHz Ant1 MIMO



## PSD NVNT ax40 242@62 2452MHz Ant2 MIMO





### A.8. Conducted Emission

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+USB Cable+PC Adapter+PC+WIFI TX

Test voltage: AC 120V/60Hz

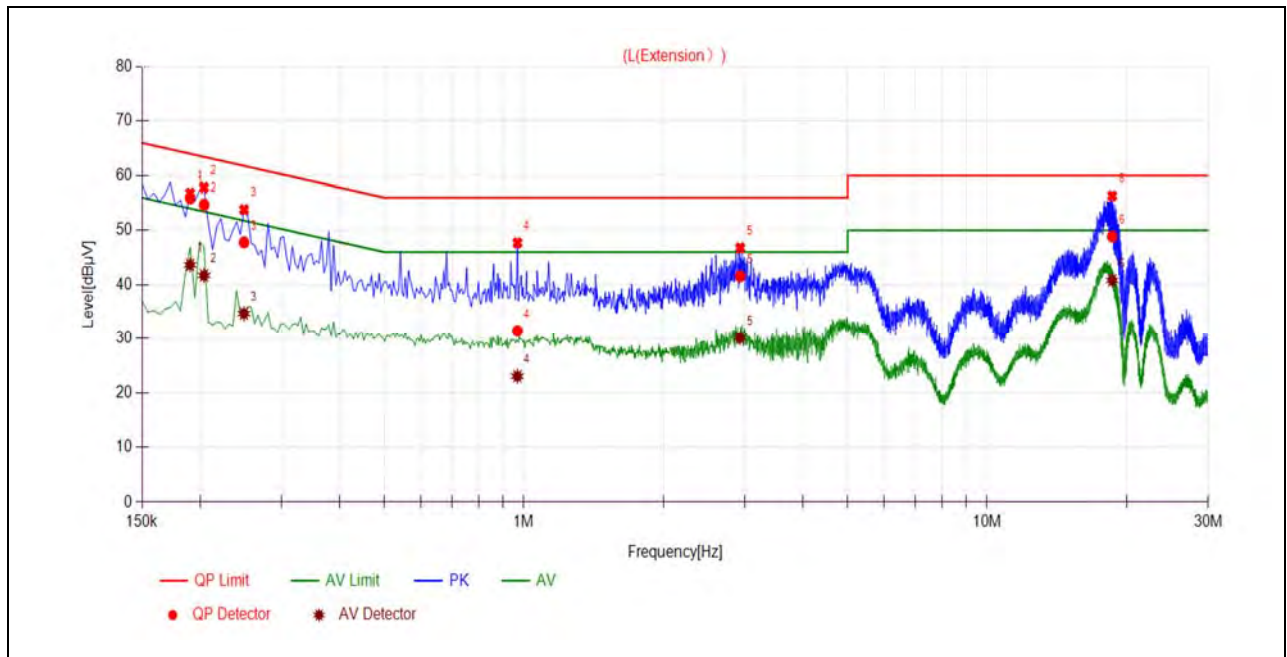
The measurement results are obtained as below:

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

$U_R$ : Receiver Reading

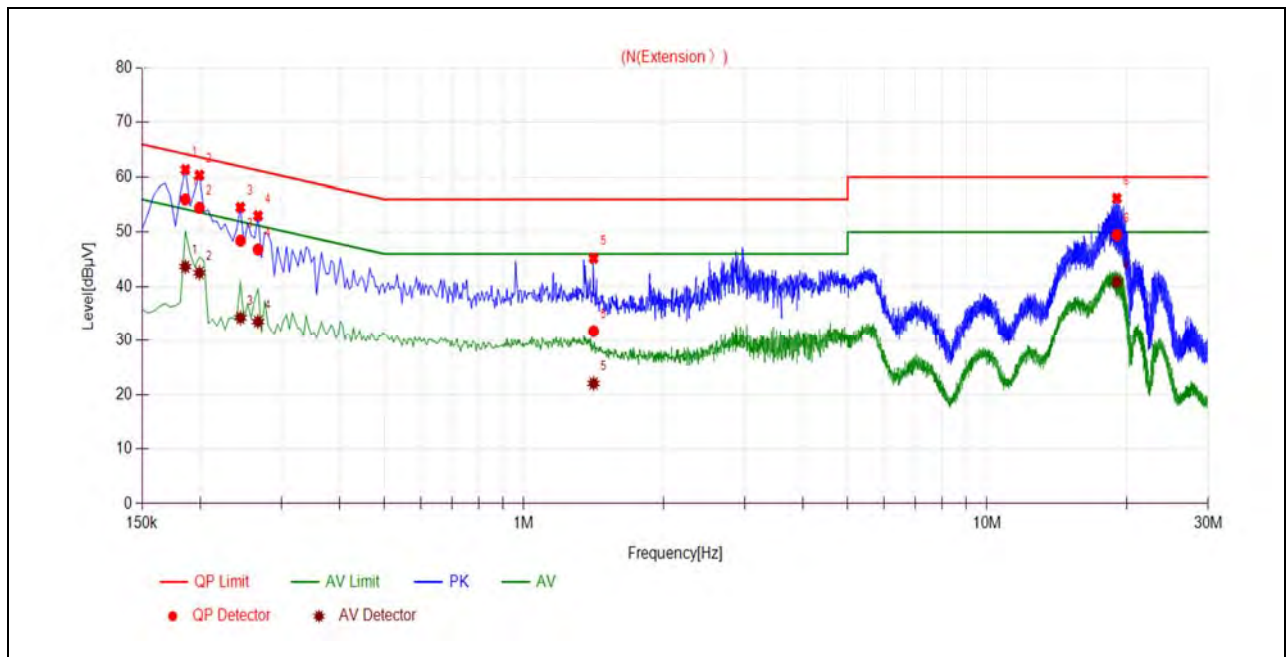
$A_{\text{Factor}}$ : Voltage division factor of LISN

## B. Test Plot:



(L Phase)

| No. | Fre.<br>(MHz) | Emission Level (dBμV) |         | Limit (dBμV) |         | Power-line | Verdict |
|-----|---------------|-----------------------|---------|--------------|---------|------------|---------|
|     |               | Quai-peak             | Average | Quai-peak    | Average |            |         |
| 1   | 0.1905        | 55.90                 | 43.65   | 64.01        | 54.01   | Line       | PASS    |
| 2   | 0.2041        | 54.70                 | 41.71   | 63.44        | 53.44   |            | PASS    |
| 3   | 0.2489        | 47.80                 | 34.67   | 61.79        | 51.79   |            | PASS    |
| 4   | 0.9685        | 31.43                 | 23.00   | 56.00        | 46.00   |            | PASS    |
| 5   | 2.9301        | 41.56                 | 30.10   | 56.00        | 46.00   |            | PASS    |
| 6   | 18.6247       | 48.90                 | 40.80   | 60.00        | 50.00   |            | PASS    |



(N Phase)

| No. | Fre.<br>(MHz) | Emission Level (dBμV) |         | Limit (dBμV) |         | Power-line | Verdict |
|-----|---------------|-----------------------|---------|--------------|---------|------------|---------|
|     |               | Quai-peak             | Average | Quai-peak    | Average |            |         |
| 1   | 0.1859        | 56.00                 | 43.66   | 64.22        | 54.22   | Neutral    | PASS    |
| 2   | 0.1994        | 54.47                 | 42.53   | 63.63        | 53.63   |            | PASS    |
| 3   | 0.2446        | 48.45                 | 34.27   | 61.94        | 51.94   |            | PASS    |
| 4   | 0.2668        | 46.81                 | 33.57   | 61.22        | 51.22   |            | PASS    |
| 5   | 1.4148        | 31.76                 | 22.03   | 56.00        | 46.00   |            | PASS    |
| 6   | 19.0457       | 49.47                 | 40.87   | 60.00        | 50.00   |            | PASS    |



### A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the 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

$G_{\text{preamp}}$ : Preamplifier Gain

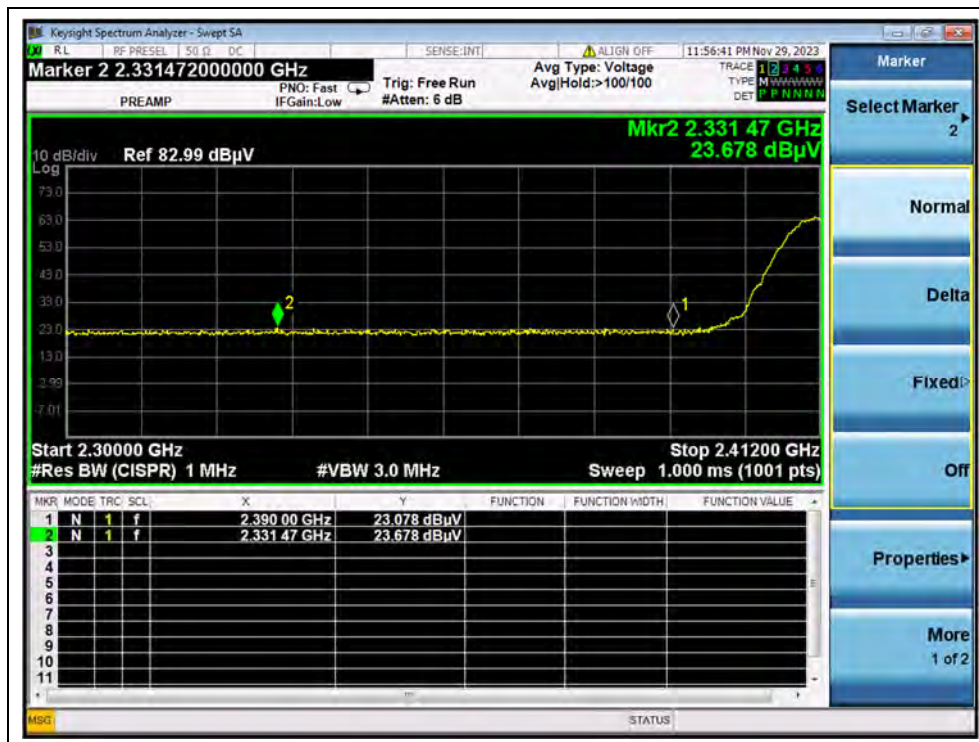
$A_{\text{Factor}}$ : Antenna Factor at 3m

**Note 1:** 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.

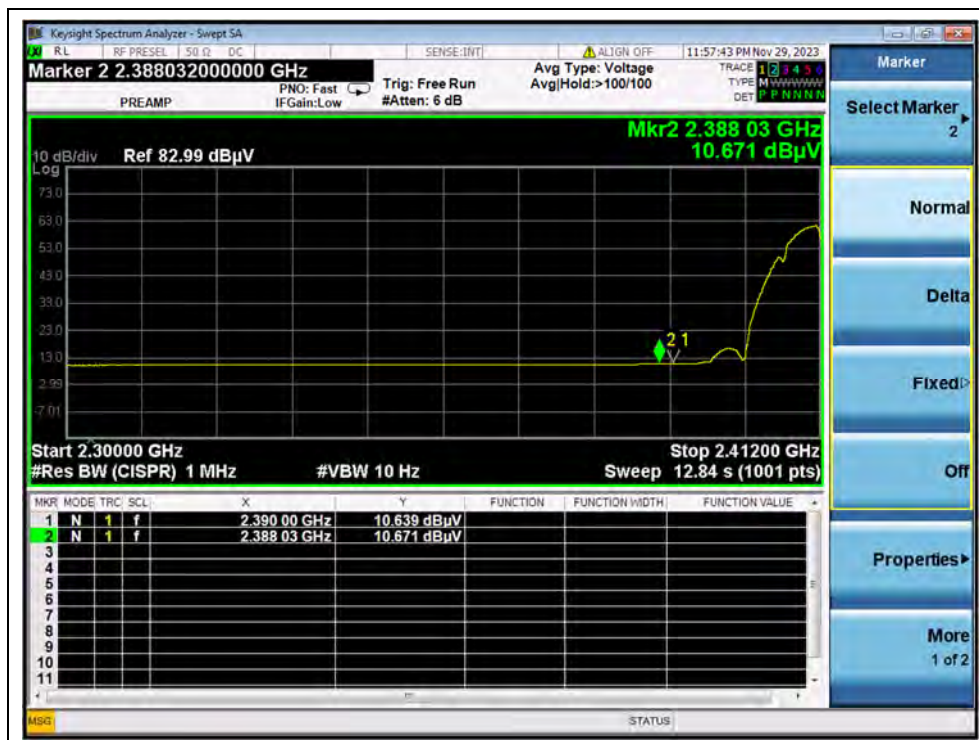
**Note 2** All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

#### 802.11b Mode

| Channel | Frequency<br>(MHz) | Detector | Receiver<br>Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{\text{Factor}}$<br>(dB@3m) | Max.<br>Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|--------------------|----------|----------------------------------------------|---------------|--------------------------------|-------------------------------------------|-------------------------|---------|
|         |                    | PK/ AV   |                                              |               |                                |                                           |                         |         |
| 1       | 2331.47            | PK       | 23.68                                        | 6.74          | 27.20                          | 57.62                                     | 74                      | PASS    |
| 1       | 2388.03            | AV       | 10.67                                        | 6.74          | 27.20                          | 44.61                                     | 54                      | PASS    |
| 11      | 2489.82            | PK       | 23.18                                        | 6.74          | 27.20                          | 57.12                                     | 74                      | PASS    |
| 11      | 2483.50            | AV       | 10.49                                        | 6.74          | 27.20                          | 44.43                                     | 54                      | PASS    |



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

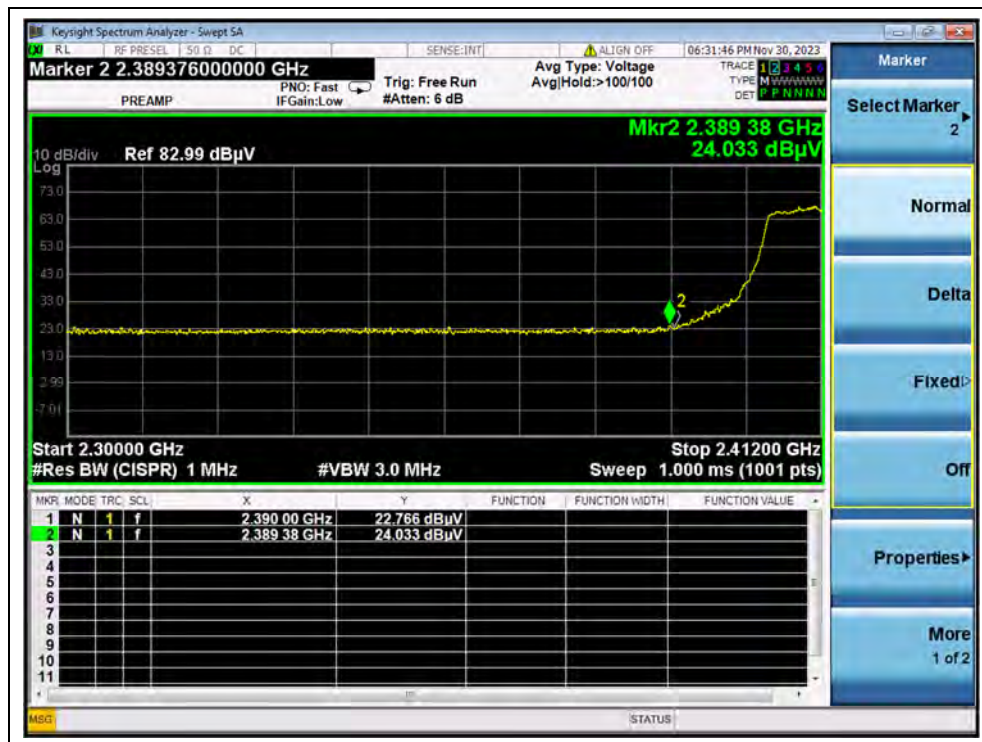


(AVERAGE, Channel 11, 802.11b)

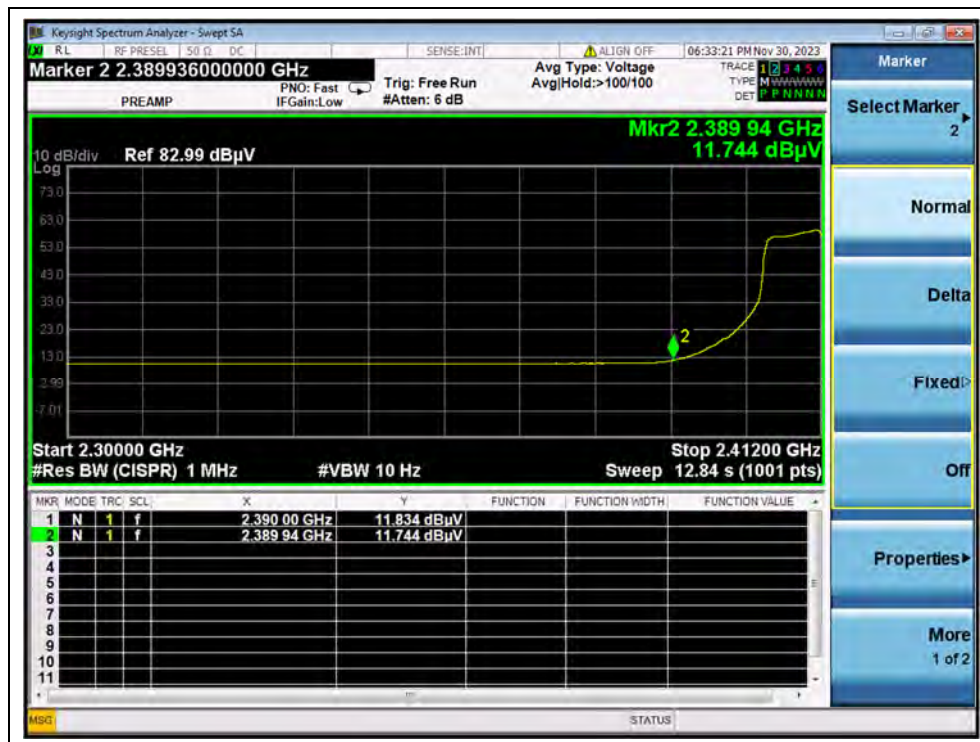


**802.11g Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 1       | 2389.38         | PK       | 24.03                                     | 6.74          | 27.20                   | 57.97                                  | 74                      | PASS    |
| 1       | 2390.00         | AV       | 11.83                                     | 6.74          | 27.20                   | 45.77                                  | 54                      | PASS    |
| 11      | 2483.77         | PK       | 25.28                                     | 6.74          | 27.20                   | 59.22                                  | 74                      | PASS    |
| 11      | 2483.50         | AV       | 12.67                                     | 6.74          | 27.20                   | 46.61                                  | 54                      | PASS    |



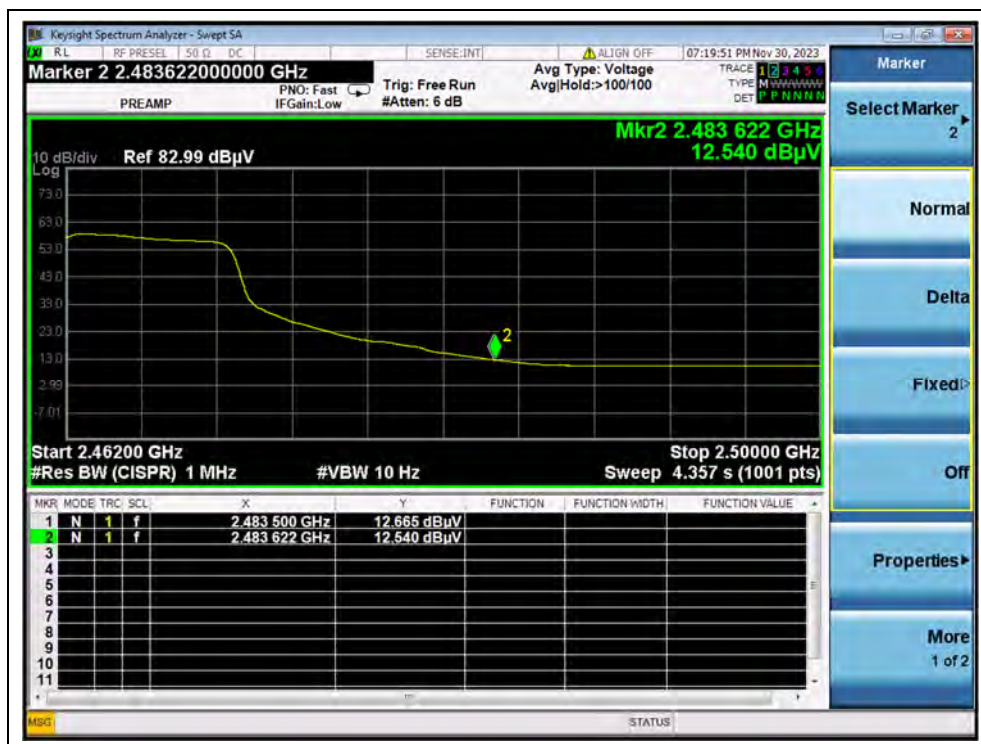
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)

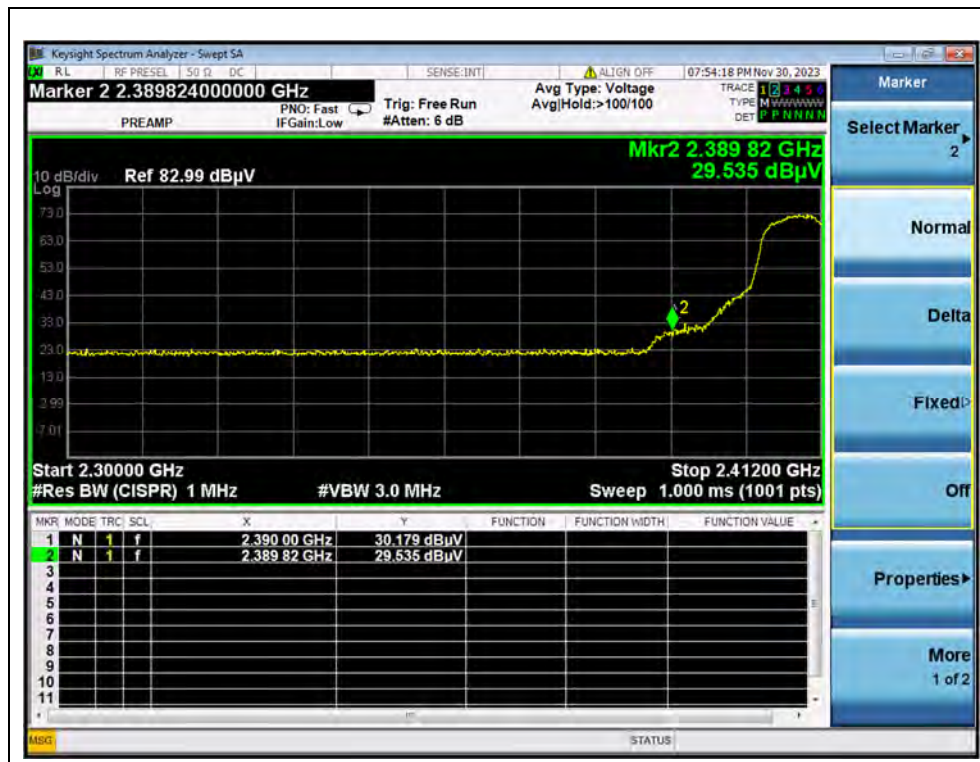


(AVERAGE, Channel 11, 802.11g)



**802.11n (HT20) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dBμV) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dBμV/m) | Limit<br>(dBμV/m) | Verdict |
|---------|-----------------|----------|-------------------------------------|---------------|-------------------------|----------------------------------|-------------------|---------|
|         |                 | PK/ AV   |                                     |               |                         |                                  |                   |         |
| 1       | 2390.00         | PK       | 30.18                               | 6.74          | 27.20                   | 64.12                            | 74                | PASS    |
| 1       | 2390.00         | AV       | 17.42                               | 6.74          | 27.20                   | 51.36                            | 54                | PASS    |
| 11      | 2484.46         | PK       | 27.62                               | 6.74          | 27.20                   | 61.56                            | 74                | PASS    |
| 11      | 2484.50         | AV       | 15.15                               | 6.74          | 27.20                   | 49.09                            | 54                | PASS    |



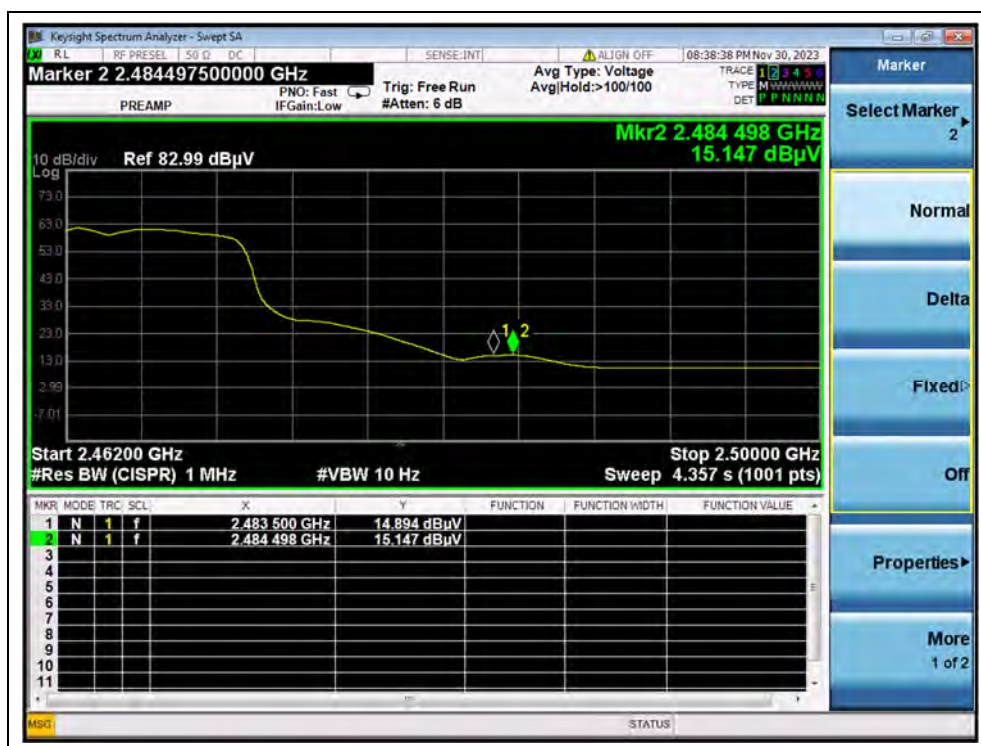
(PEAK, Channel 1, 802.11n (HT20))



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



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

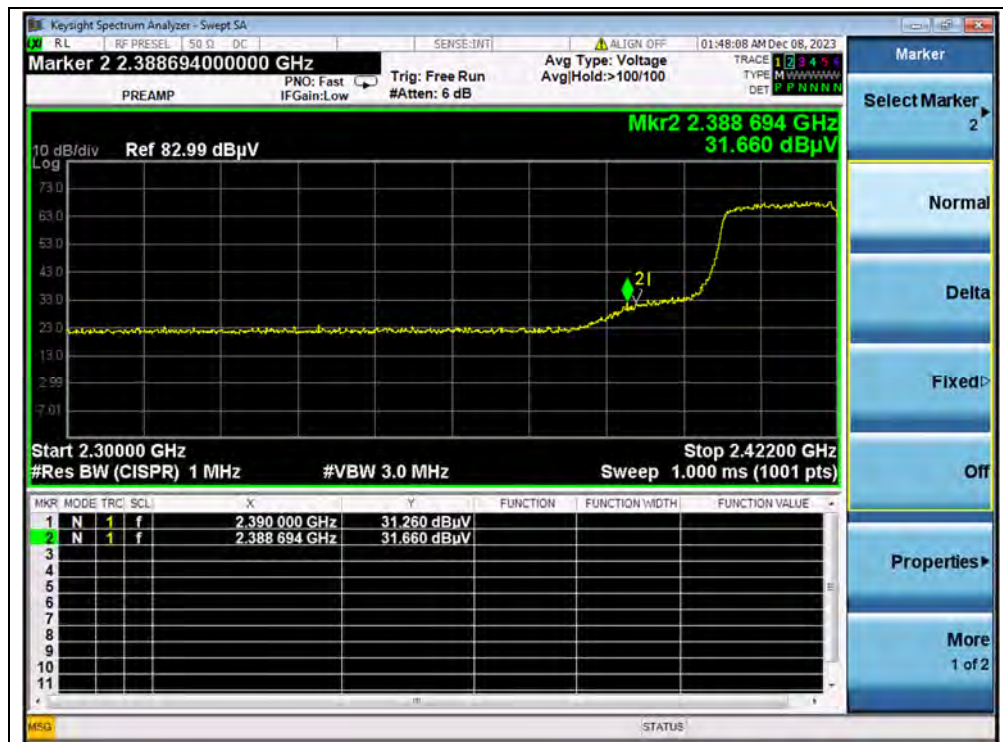


(AVERAGE, Channel 11, 802.11n (HT20))



**802.11n (HT40) Mode**

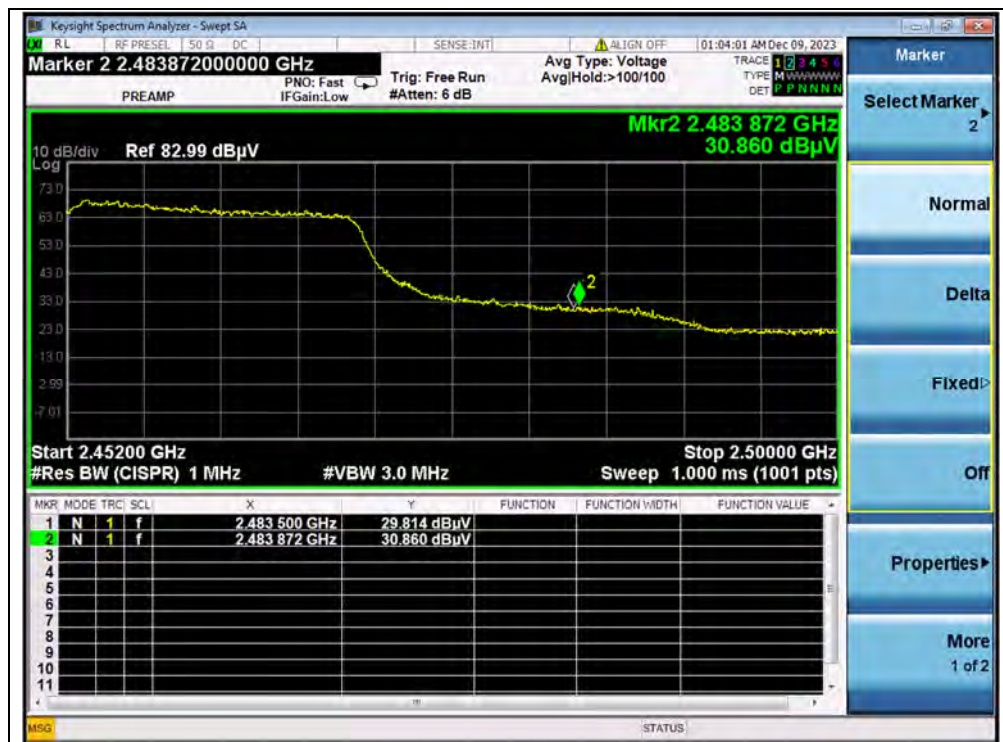
| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 3       | 2388.69         | PK       | 31.66                                     | 6.74          | 27.20                   | 65.60                                  | 74                      | PASS    |
| 3       | 2390.00         | AV       | 19.01                                     | 6.74          | 27.20                   | 52.95                                  | 54                      | PASS    |
| 9       | 2483.87         | PK       | 30.86                                     | 6.74          | 27.20                   | 64.80                                  | 74                      | PASS    |
| 9       | 2483.50         | AV       | 17.78                                     | 6.74          | 27.20                   | 51.72                                  | 54                      | PASS    |



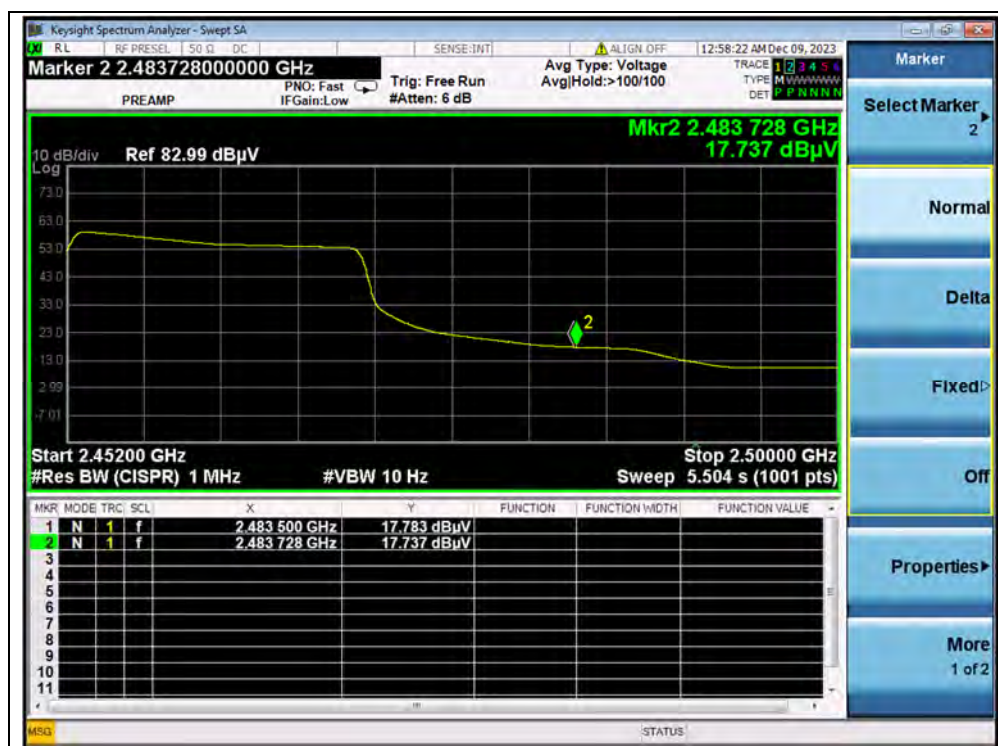
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 9, 802.11n (HT40))

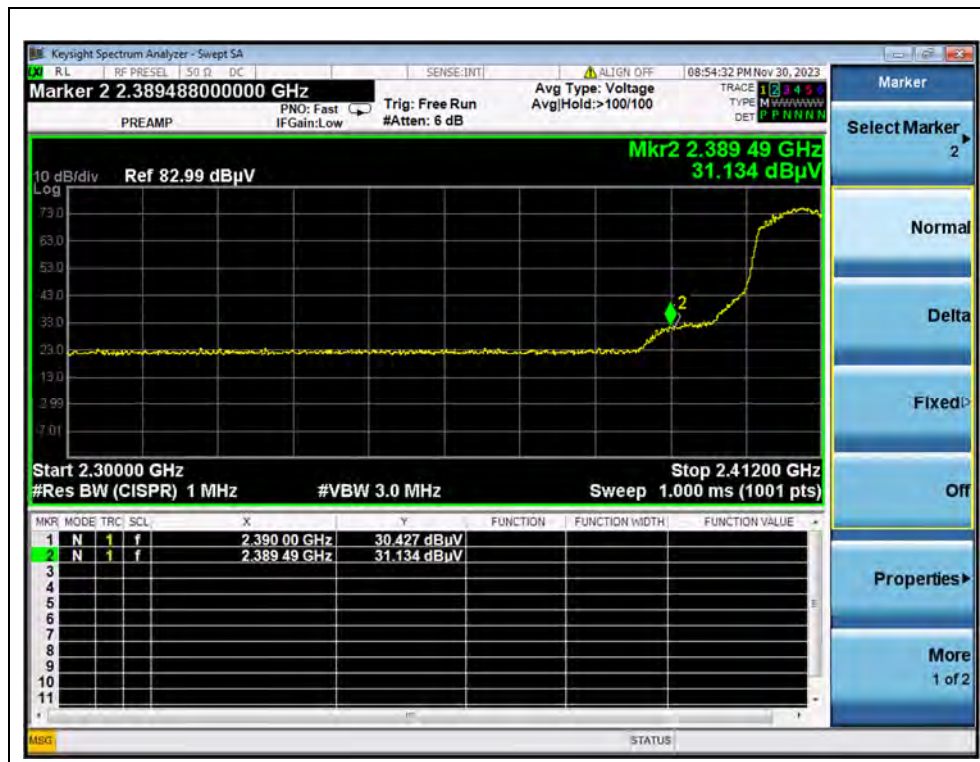


(AVERAGE, Channel 9, 802.11n (HT40))



**802.11ax (HEW20) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dBμV) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>E<br>(dBμV/m) | Limit<br>(dBμV/m) | Verdict |
|---------|-----------------|----------|-------------------------------------|---------------|-------------------------|--------------------------------|-------------------|---------|
|         |                 | PK/ AV   |                                     |               |                         |                                |                   |         |
| 1       | 2389.49         | PK       | 31.13                               | 6.74          | 27.20                   | 65.07                          | 74                | PASS    |
| 1       | 2390.00         | AV       | 18.50                               | 6.74          | 27.20                   | 52.44                          | 54                | PASS    |
| 11      | 2484.61         | PK       | 31.46                               | 6.74          | 27.20                   | 65.40                          | 74                | PASS    |
| 11      | 2484.57         | AV       | 17.33                               | 6.74          | 27.20                   | 51.27                          | 54                | PASS    |



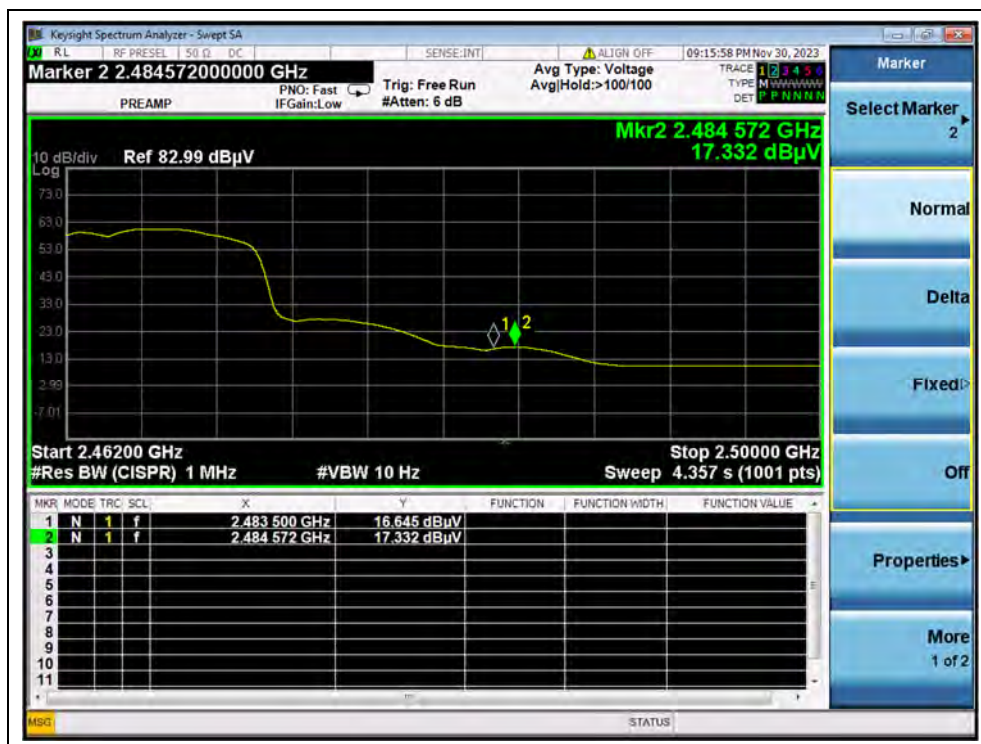
(PEAK, Channel 1, 802.11ax (HEW20))



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



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

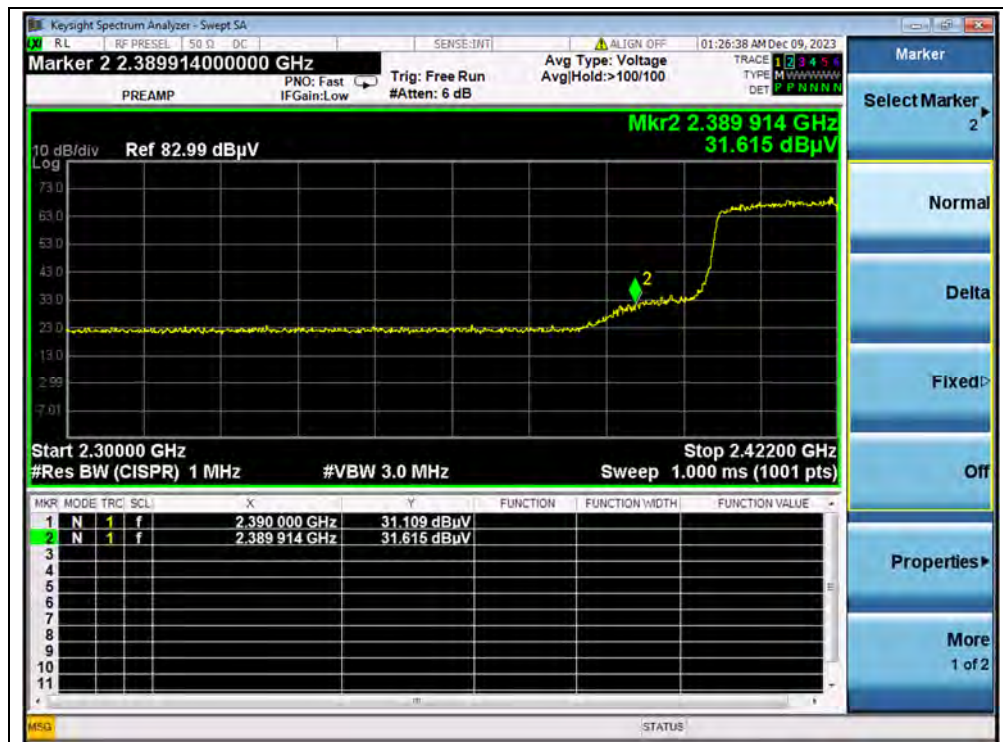


(AVERAGE, Channel 11, 802.11ax (HEW20))

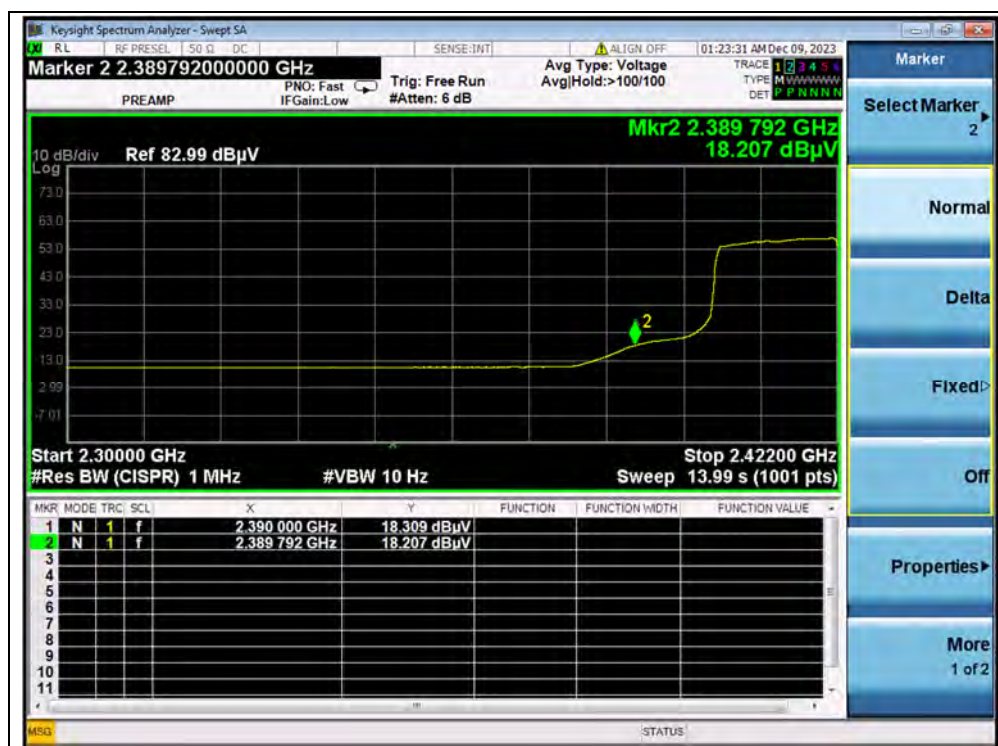


**802.11ax (HEW40) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>E<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|--------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                      |                         |         |
| 3       | 2389.91         | PK       | 31.62                                     | 6.74          | 27.20                   | 65.56                                | 74                      | PASS    |
| 3       | 2390.00         | AV       | 18.31                                     | 6.74          | 27.20                   | 52.25                                | 54                      | PASS    |
| 9       | 2485.26         | PK       | 32.38                                     | 6.74          | 27.20                   | 66.32                                | 74                      | PASS    |
| 9       | 2483.63         | AV       | 17.87                                     | 6.74          | 27.20                   | 51.81                                | 54                      | PASS    |



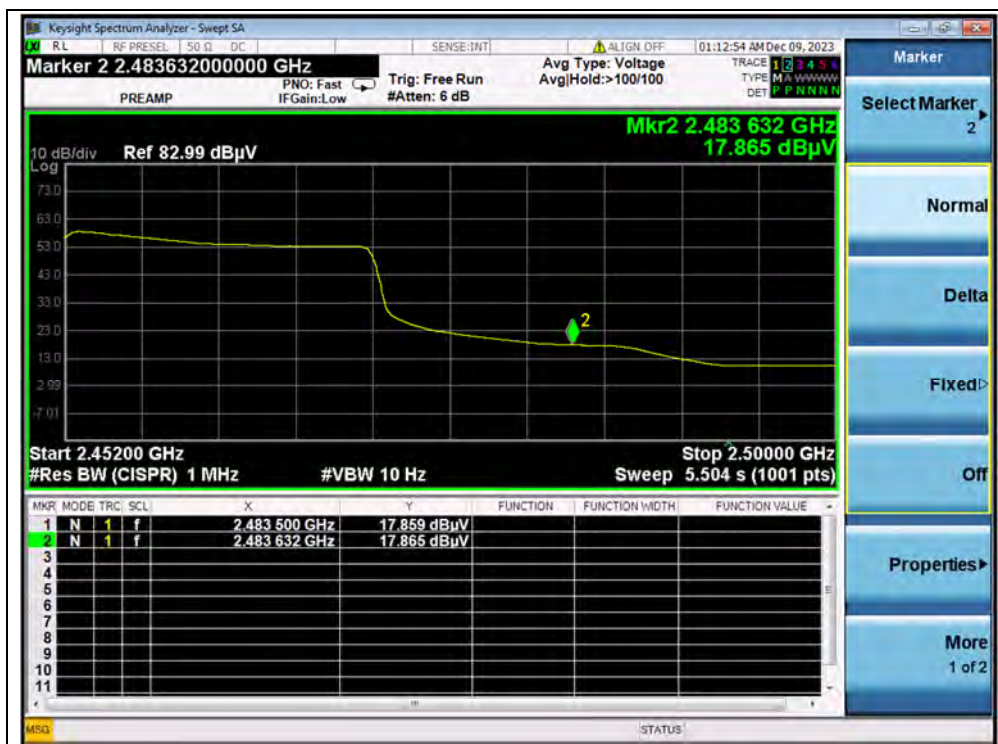
(PEAK, Channel 3, 802.11ax (HEW40))



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



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



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



### A.10. Radiated Emission

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

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

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

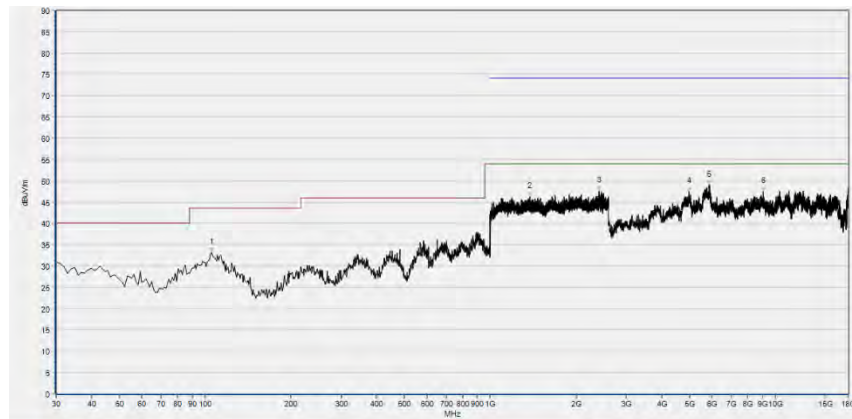
**Note1:** All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**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 10th harmonic of the highest frequency, 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<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 105.660    | 33.22          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1373.867   | 46.18          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2405.333   | 47.59          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4983.920   | 47.49          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5846.320   | 48.89          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9089.560   | 47.45          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

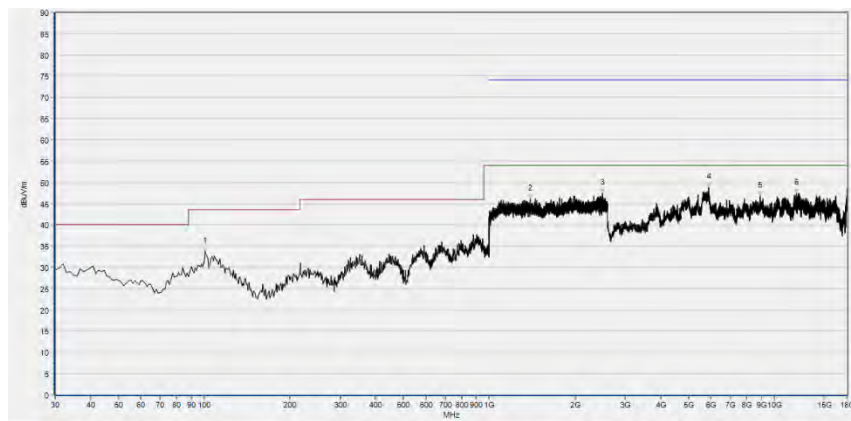


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 98.870     | 32.77          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1468.800   | 46.19          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2219.200   | 47.12          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5698.480   | 48.53          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7872.960   | 46.51          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 12206.520  | 47.84          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

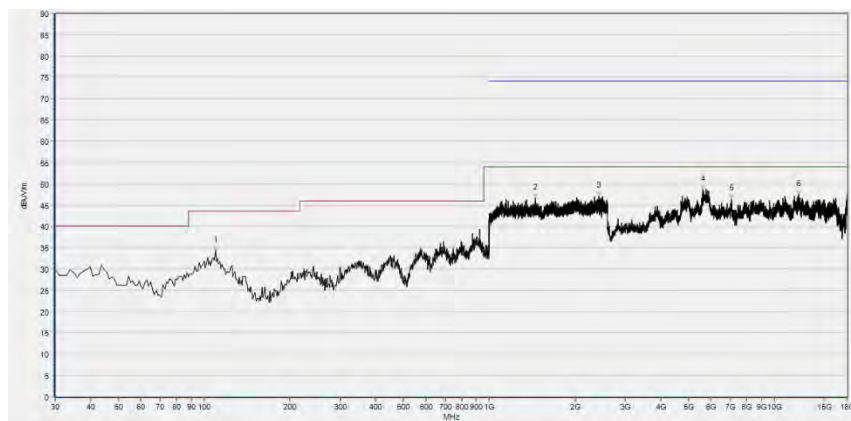


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 100.810    | 33.61       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1391.467   | 46.13       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2491.200   | 47.45       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5895.600   | 48.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 8920.160   | 46.71       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 11929.320  | 47.43       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

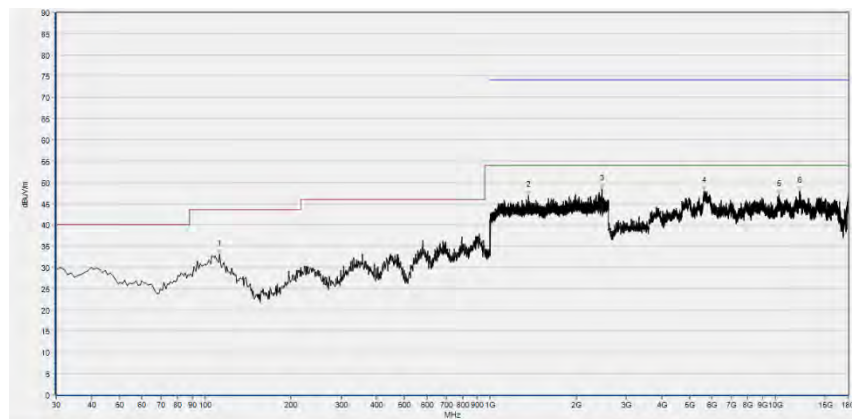


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 109.540    | 34.18       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1448.000   | 46.52       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2421.333   | 47.14       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5624.560   | 48.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 7066.000   | 46.46       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12172.640  | 47.42       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 11



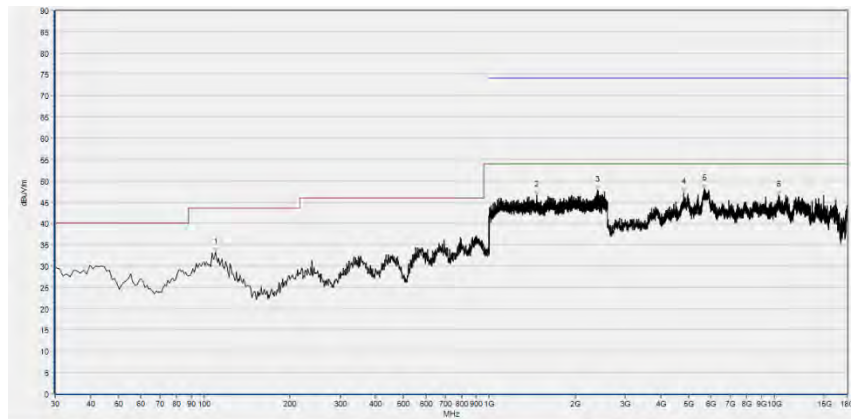
| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 112.450    | 33.08          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1360.533   | 46.85          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2464.533   | 48.35          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5618.400   | 47.94          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 10293.840  | 47.08          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 12141.840  | 47.85          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 110.510    | 32.83          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1681.600   | 46.91          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2453.867   | 47.27          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5704.640   | 47.68          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8997.160   | 46.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 12148.000  | 47.69          | 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<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 109.540    | 33.22          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1464.533   | 46.52          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2389.867   | 47.71          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4808.360   | 47.32          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5680.000   | 48.02          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 10336.960  | 46.62          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

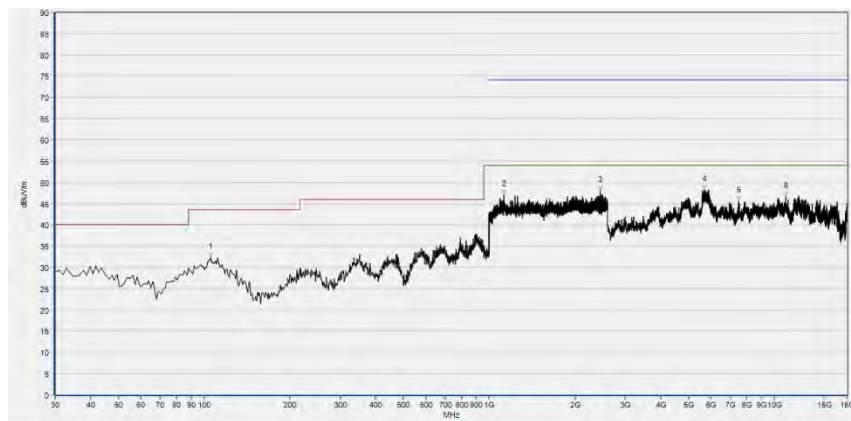


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 104.690    | 33.33          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1390.400   | 46.36          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2414.933   | 48.19          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5914.080   | 47.59          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 10324.640  | 46.86          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 12157.240  | 48.57          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

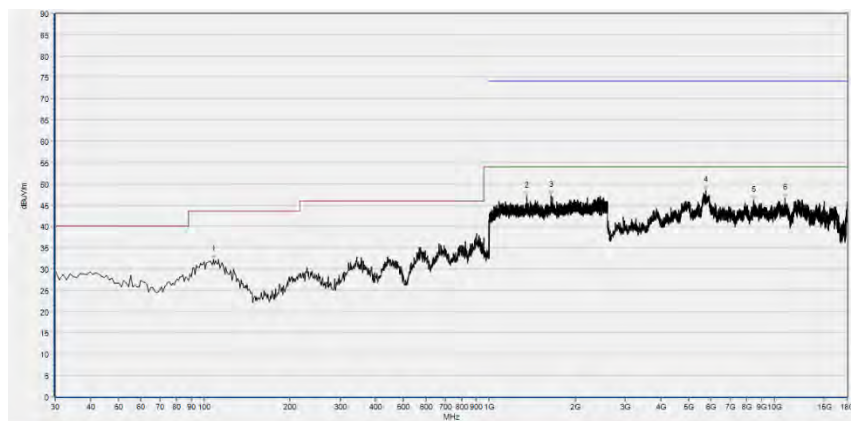


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 105.660    | 32.30       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1128.533   | 47.04       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2450.133   | 48.02       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5680.000   | 48.28       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 7478.720   | 45.58       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10989.920  | 46.56       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

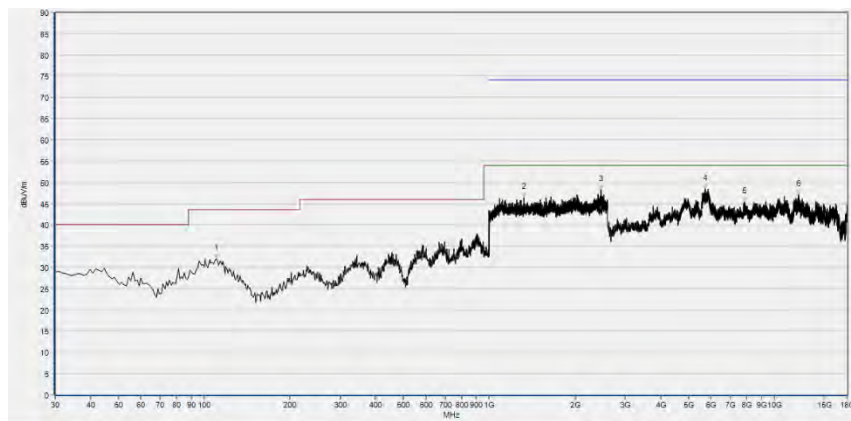


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 107.600    | 32.17       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1357.333   | 47.02       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 1645.333   | 47.18       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5763.160   | 48.51       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8448.920   | 46.01       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10894.440  | 46.61       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

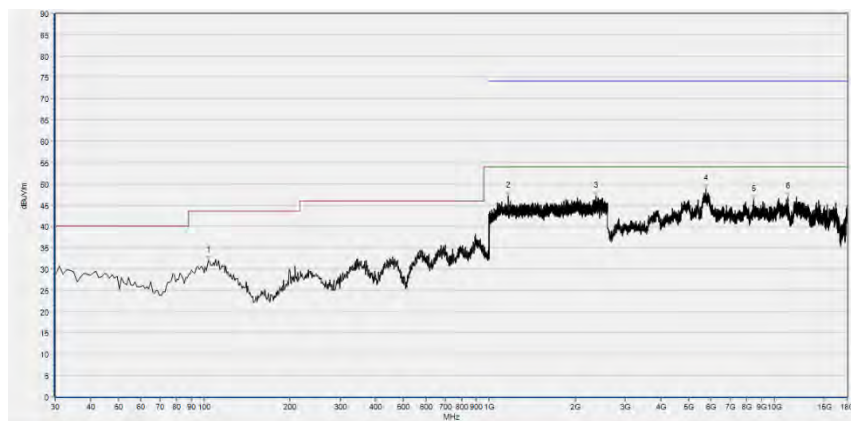


Plot for Channel 11



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 110.510    | 32.06       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1321.067   | 46.39       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2462.933   | 48.29       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5732.360   | 48.48       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 7863.720   | 45.46       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12138.760  | 47.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

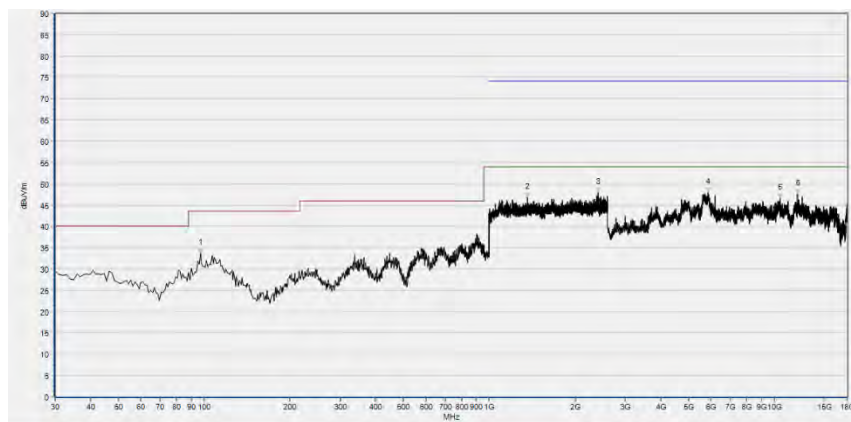


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 103.720    | 31.96       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1166.400   | 47.10       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2361.600   | 47.01       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5744.680   | 48.78       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8479.720   | 46.24       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 11134.680  | 46.91       | 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



| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 96.930     | 33.61          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1360.000   | 46.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2405.333   | 47.90          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5855.560   | 48.01          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 10490.960  | 46.63          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 12061.760  | 47.54          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

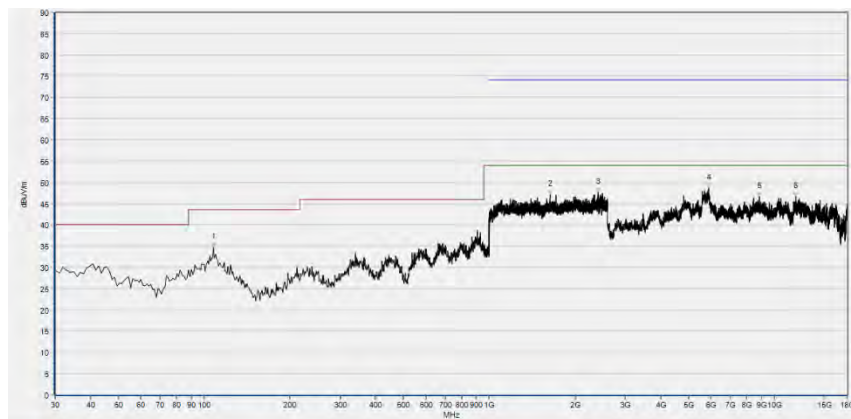


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 109.540    | 32.70          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1585.600   | 46.47          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2449.600   | 48.08          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5837.080   | 48.26          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8692.240   | 46.01          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 12151.080  | 46.71          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

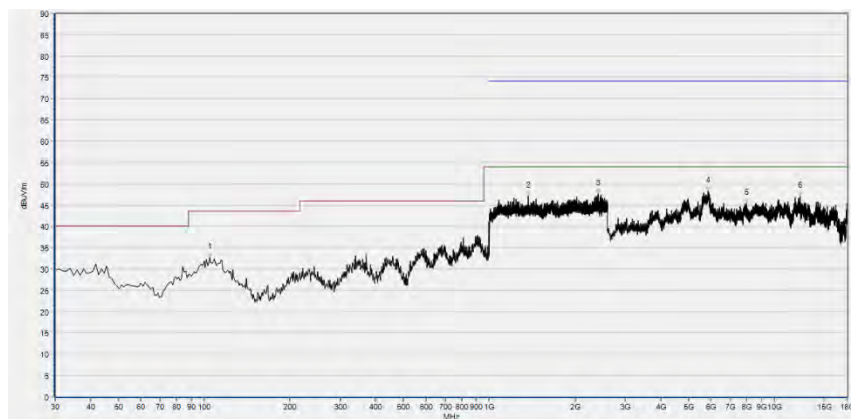


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 107.600    | 34.69       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1632.533   | 47.10       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2410.667   | 47.55       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5880.200   | 48.61       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 8864.720   | 46.67       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 11895.440  | 46.62       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

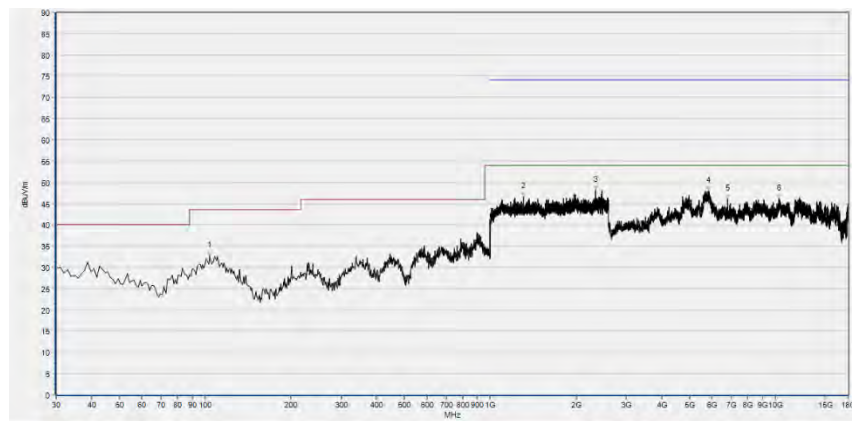


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 104.690    | 32.64       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1371.200   | 47.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2413.333   | 47.59       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5852.480   | 48.27       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 7993.080   | 45.41       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12277.360  | 47.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

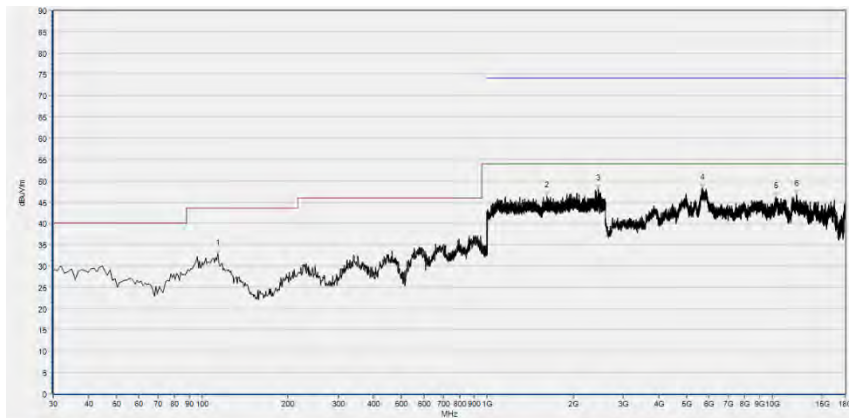


Plot for Channel 11



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 103.720    | 32.67       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1304.533   | 46.56       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2336.533   | 48.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5827.840   | 47.87       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 6810.360   | 46.14       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10300.000  | 46.12       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

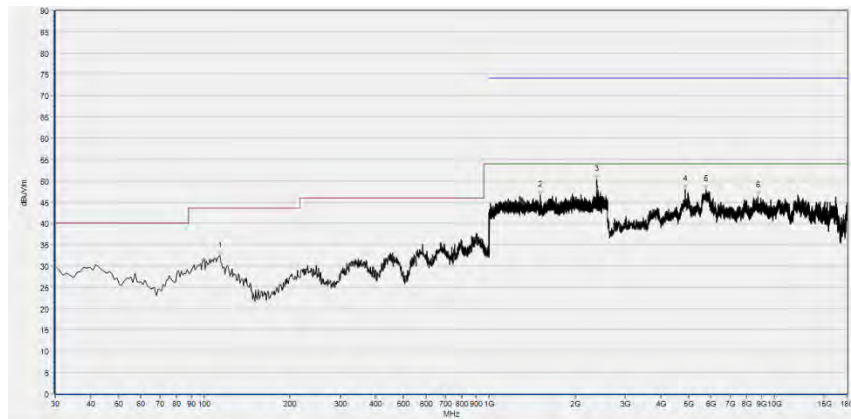


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 113.420    | 32.82       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1614.400   | 46.37       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2453.867   | 48.07       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5686.160   | 48.27       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10318.480  | 46.22       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12184.960  | 46.75       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

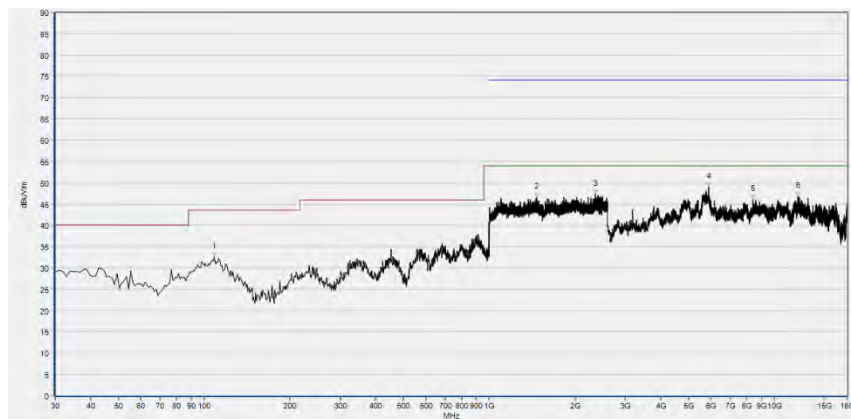
**802.11n (HT40) Mode**

## Plot for Channel 3



| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 113.420    | 32.31          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1510.400   | 46.53          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2385.600   | 50.31          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4866.880   | 47.89          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5766.240   | 47.95          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 8747.680   | 46.46          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

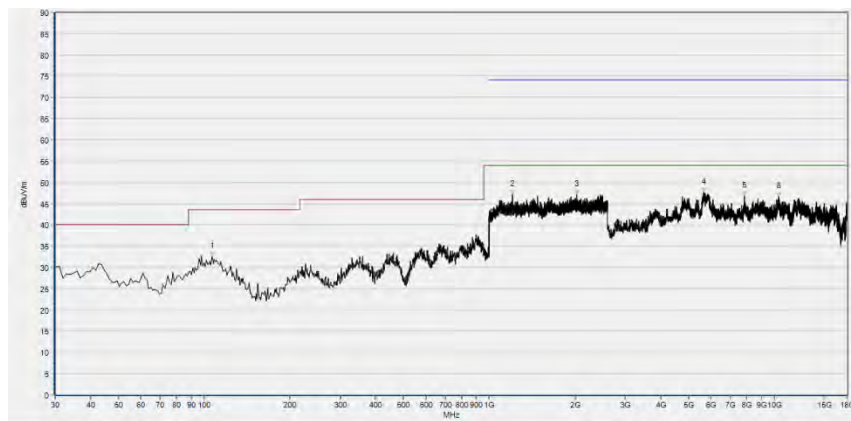


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 108.570    | 32.50          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1463.467   | 46.51          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2355.200   | 47.25          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5892.520   | 48.87          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8411.960   | 46.10          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 12120.280  | 46.80          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

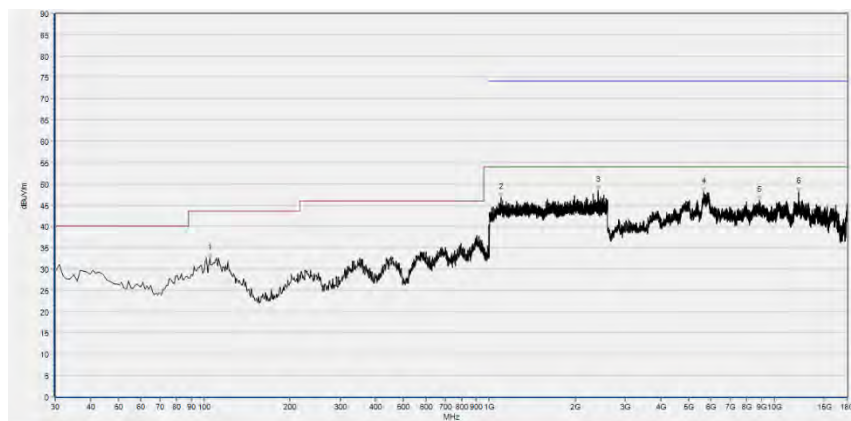


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 106.630    | 32.55       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1205.867   | 47.08       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2024.000   | 47.07       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5655.360   | 47.62       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 7857.560   | 46.79       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10343.120  | 46.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

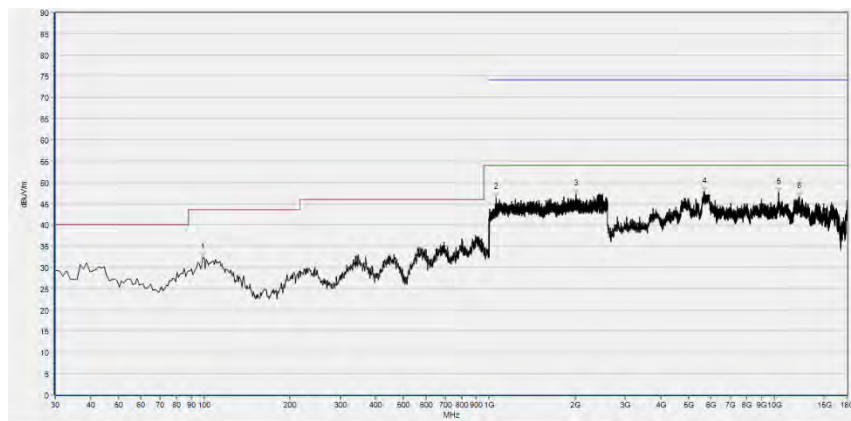


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 104.690    | 32.56       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1097.067   | 46.71       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2410.667   | 48.50       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5655.360   | 48.12       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8870.880   | 46.04       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12141.840  | 48.05       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

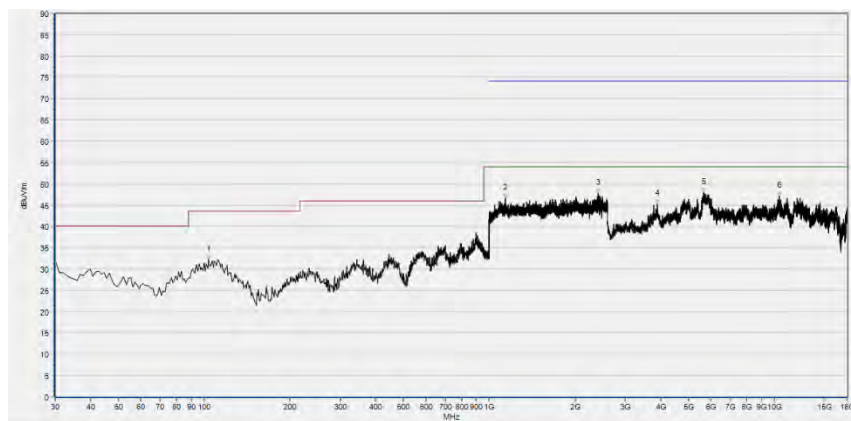


## Plot for Channel 9



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 98.870     | 32.40       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1059.200   | 46.50       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2019.200   | 47.27       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5692.320   | 47.72       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10352.360  | 47.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12218.840  | 46.57       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

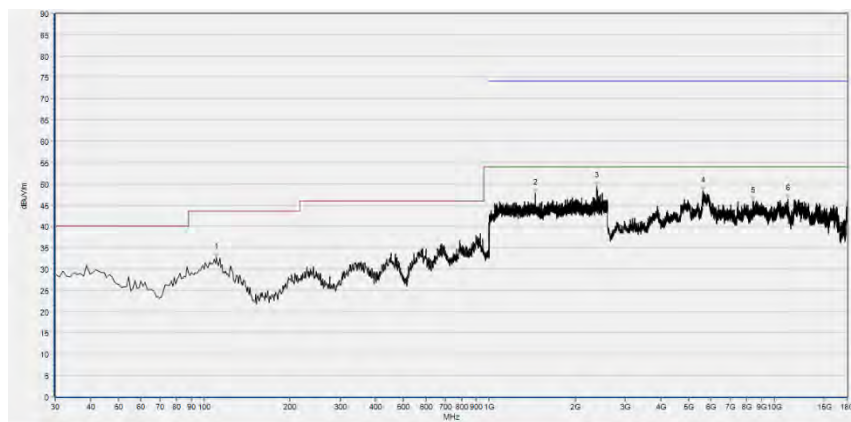


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 103.720    | 32.25       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1138.667   | 46.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2403.733   | 47.77       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 3884.360   | 45.17       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5636.880   | 47.93       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10423.200  | 47.11       | 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



| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 110.510    | 32.74          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1451.733   | 47.71          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2386.667   | 49.50          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5606.080   | 48.23          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 8396.560   | 45.94          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 11131.600  | 46.47          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

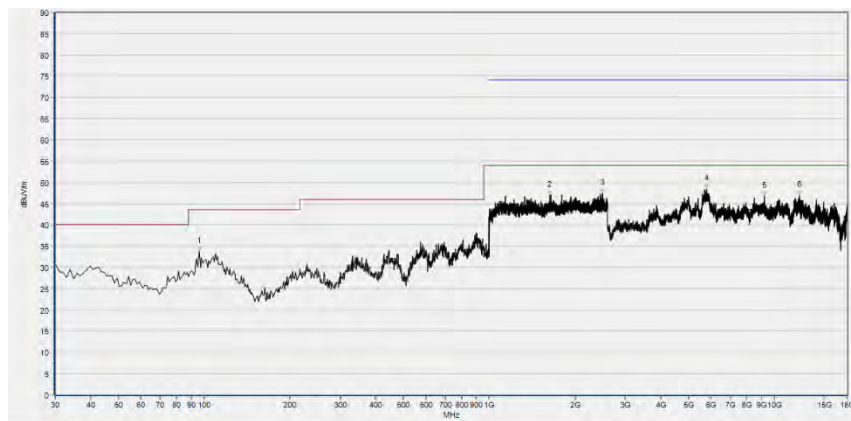


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 105.660    | 32.28          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1469.333   | 47.05          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 1974.933   | 47.27          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5781.640   | 48.18          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7956.120   | 45.67          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 10306.160  | 47.37          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

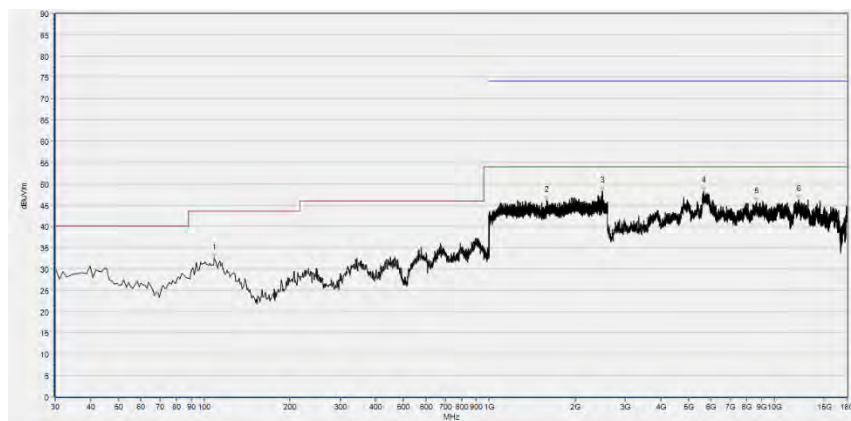


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 95.960     | 33.67       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1632.000   | 46.84       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2494.933   | 47.50       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5790.880   | 48.42       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9212.760   | 46.71       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12200.360  | 46.90       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

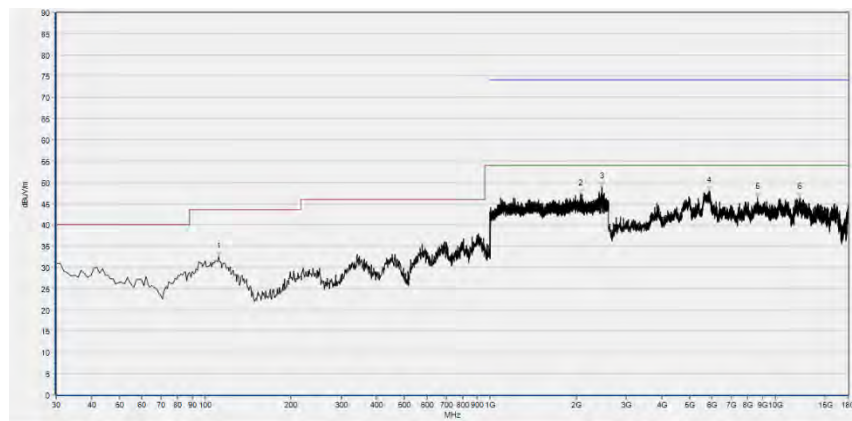


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 108.570    | 32.57       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1587.200   | 46.14       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2490.667   | 48.28       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5661.520   | 48.27       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8633.720   | 45.71       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12160.320  | 46.34       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

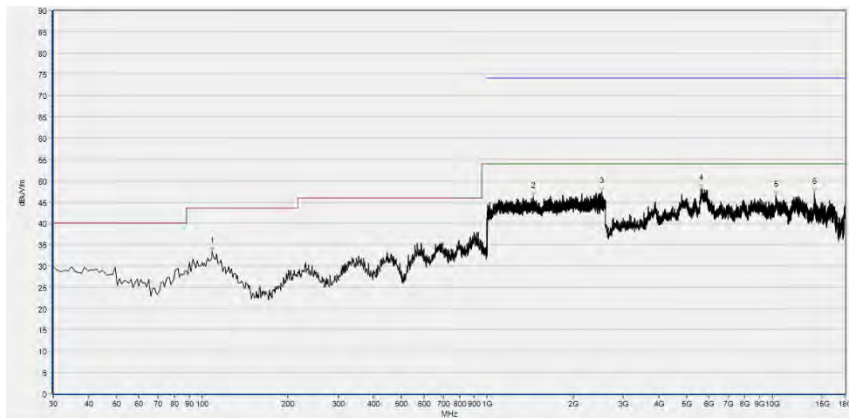


## Plot for Channel 11



| 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    | 32.56       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2070.400   | 47.34       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2464.000   | 48.90       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | N/A     |
| 5864.800   | 47.90       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 8670.680   | 46.49       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12197.280  | 46.47       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

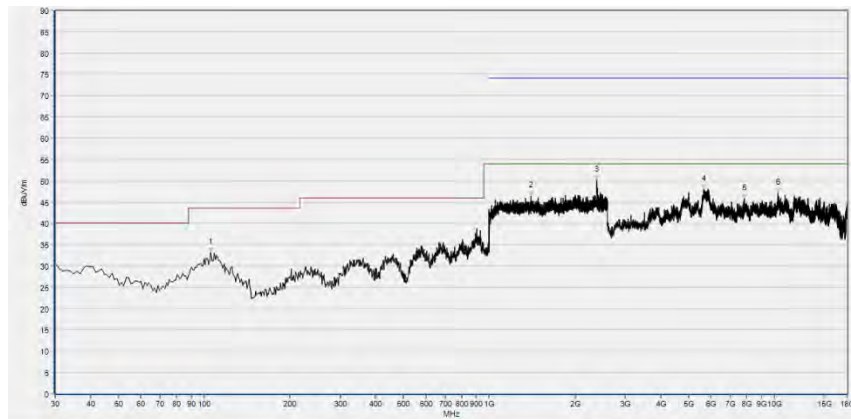


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 108.570    | 33.35       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1449.067   | 46.19       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2522.667   | 47.48       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | N/A     |
| 5606.080   | 48.02       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10309.240  | 46.61       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14060.680  | 47.31       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

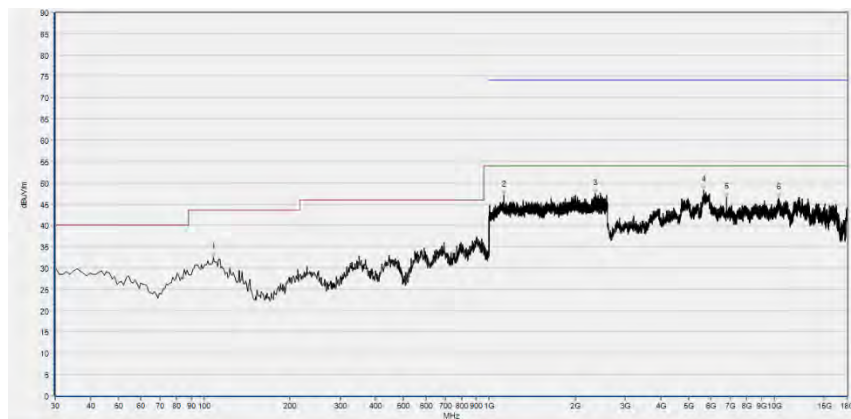
**802.11ax (HEW40) Mode**

## Plot for Channel 3



| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 105.660    | 33.15          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1402.133   | 46.35          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 2382.400   | 50.11          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5661.520   | 47.96          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 7845.240   | 45.73          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 10296.920  | 47.10          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

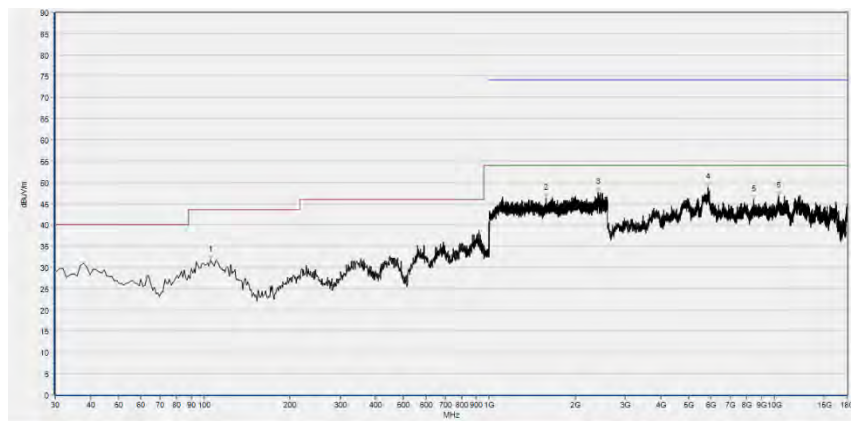


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 107.600       | 32.55          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 1127.467      | 47.02          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2347.733      | 47.35          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5655.360      | 48.20          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 6798.040      | 46.59          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 10324.640     | 46.35          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

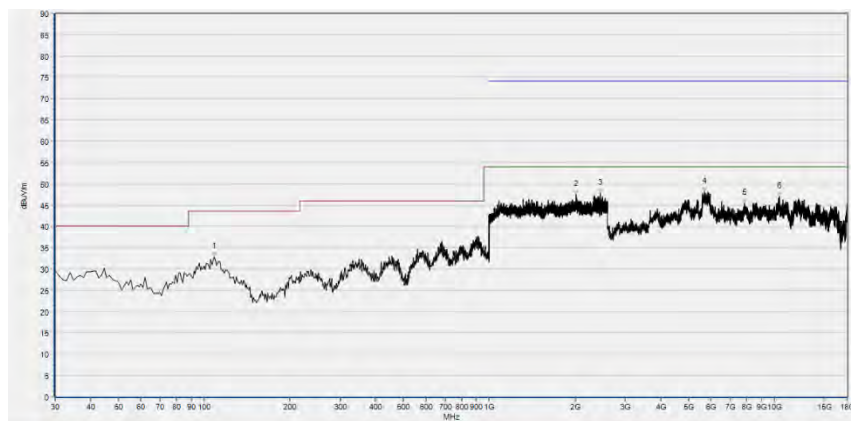


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 105.660    | 31.65       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1579.200   | 46.26       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2411.200   | 47.53       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5849.400   | 48.74       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 8448.920   | 45.85       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10343.120  | 46.73       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

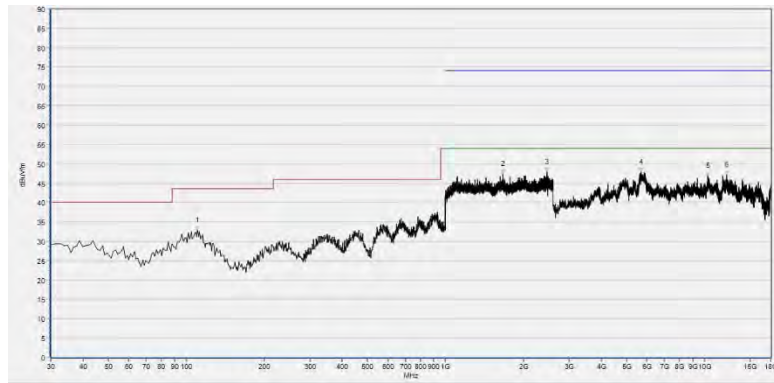


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 108.570    | 32.91       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2014.400   | 47.40       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2451.733   | 47.78       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5680.000   | 48.15       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 7836.000   | 45.36       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10426.280  | 46.95       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

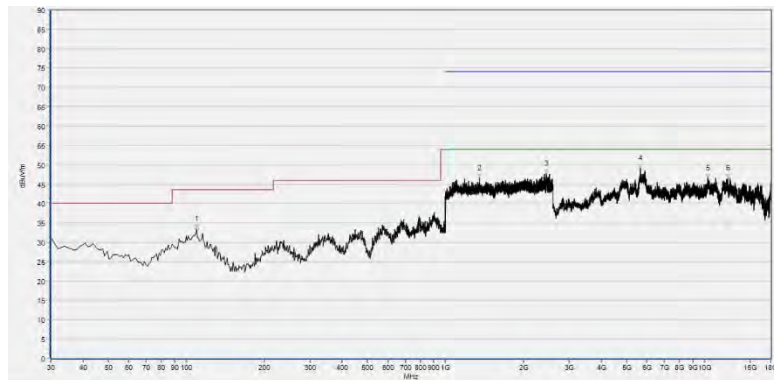


Plot for Channel 9



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 110.510    | 32.87       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1661.867   | 47.46       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 2467.200   | 47.99       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5673.840   | 48.01       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10309.240  | 46.98       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12160.320  | 47.05       | 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    | 33.50       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 1349.867   | 46.55       | N/A         | 43.18       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2451.733   | 47.73       | N/A         | 43.82       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5664.600   | 49.13       | N/A         | 40.65       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 10284.600  | 46.54       | N/A         | 47.97       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12295.840  | 46.63       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT