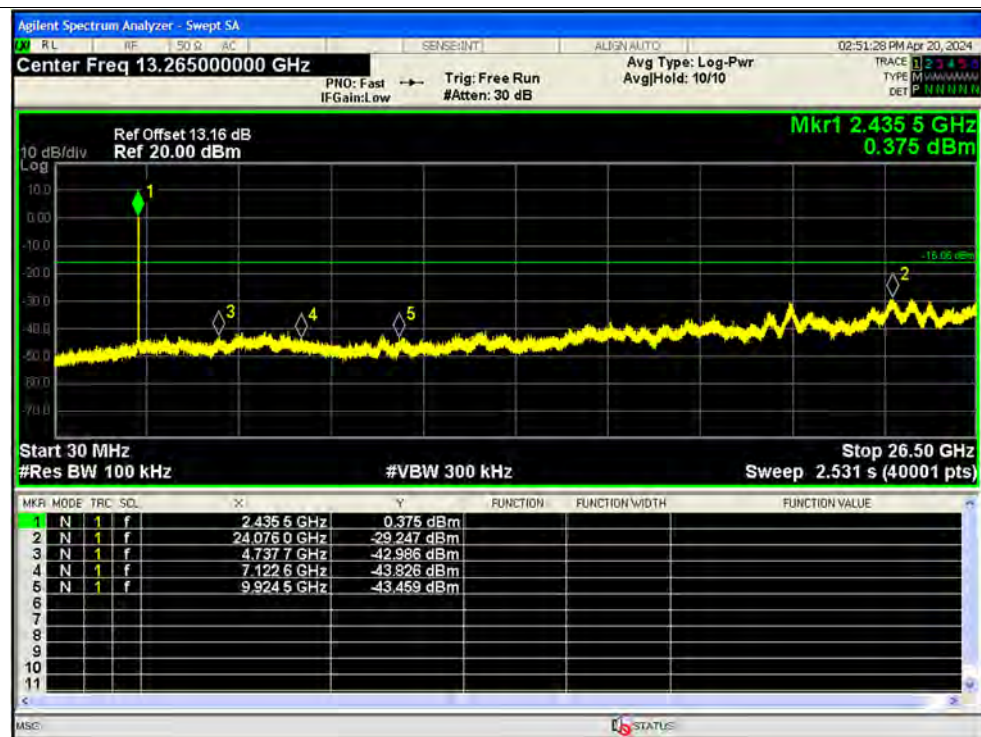


## Tx. Spurious NVNT g 2437MHz Ant1 Ref SISO



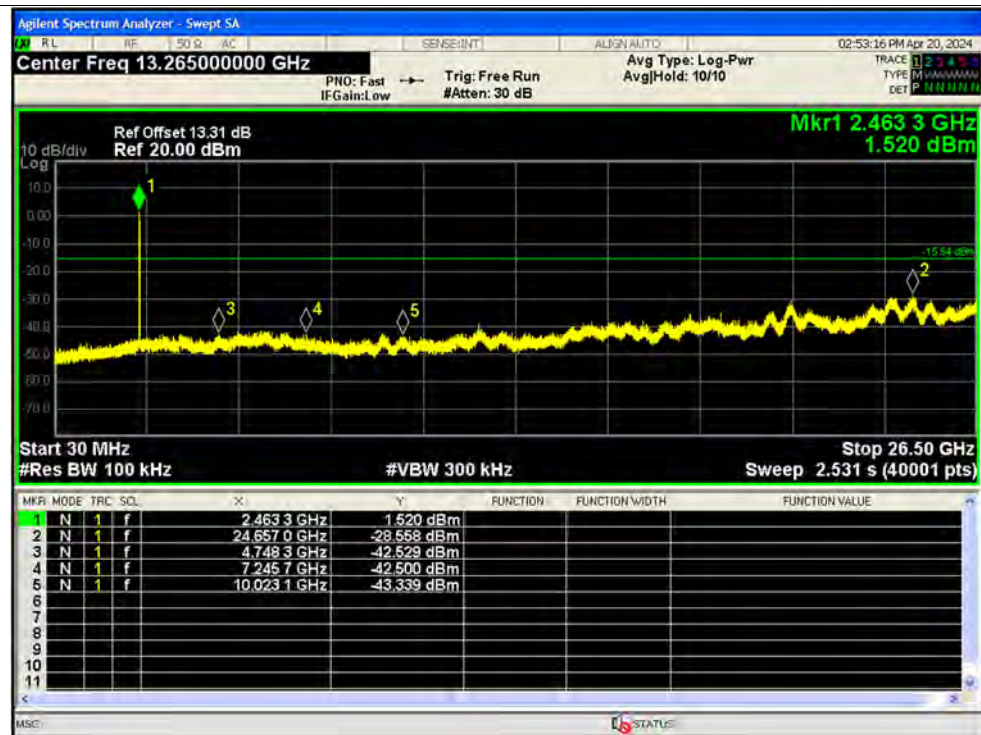
## Tx. Spurious NVNT g 2437MHz Ant1 Emission SISO



## Tx. Spurious NVNT g 2462MHz Ant1 Ref SISO



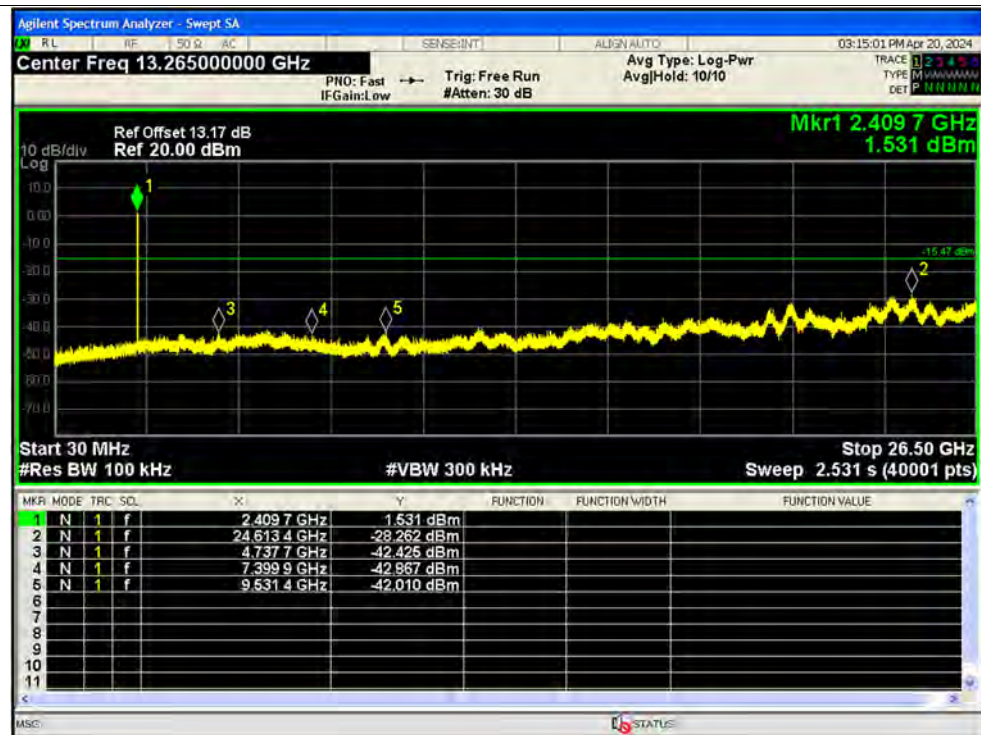
## Tx. Spurious NVNT g 2462MHz Ant1 Emission SISO



## Tx. Spurious NVNT g 2412MHz Ant2 Ref SISO



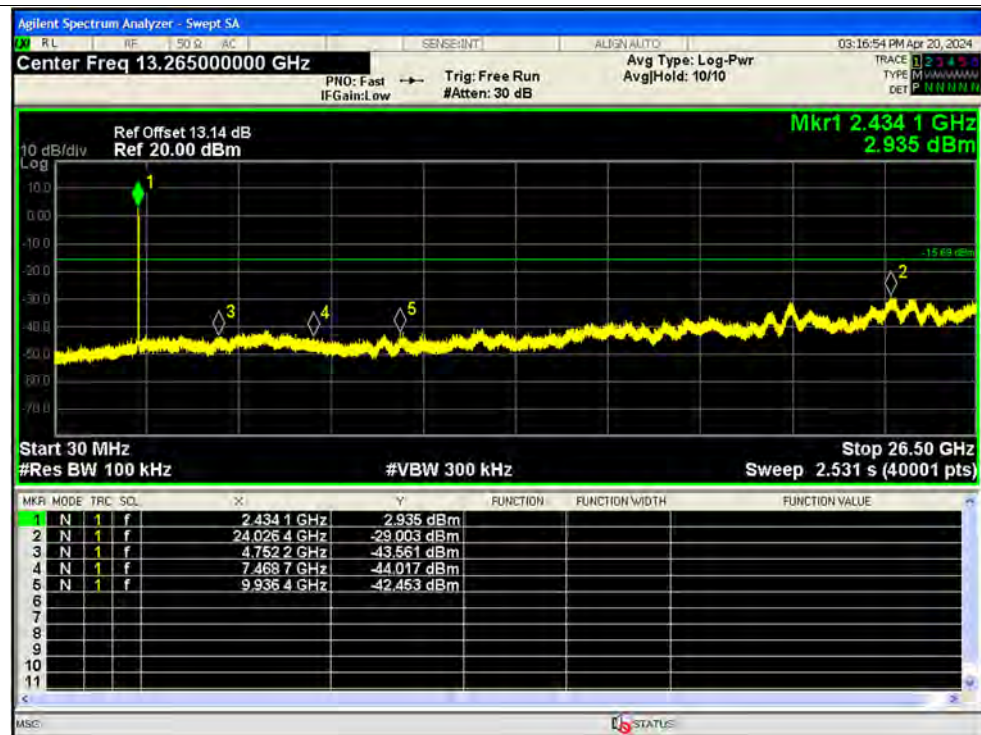
## Tx. Spurious NVNT g 2412MHz Ant2 Emission SISO



## Tx. Spurious NVNT g 2437MHz Ant2 Ref SISO



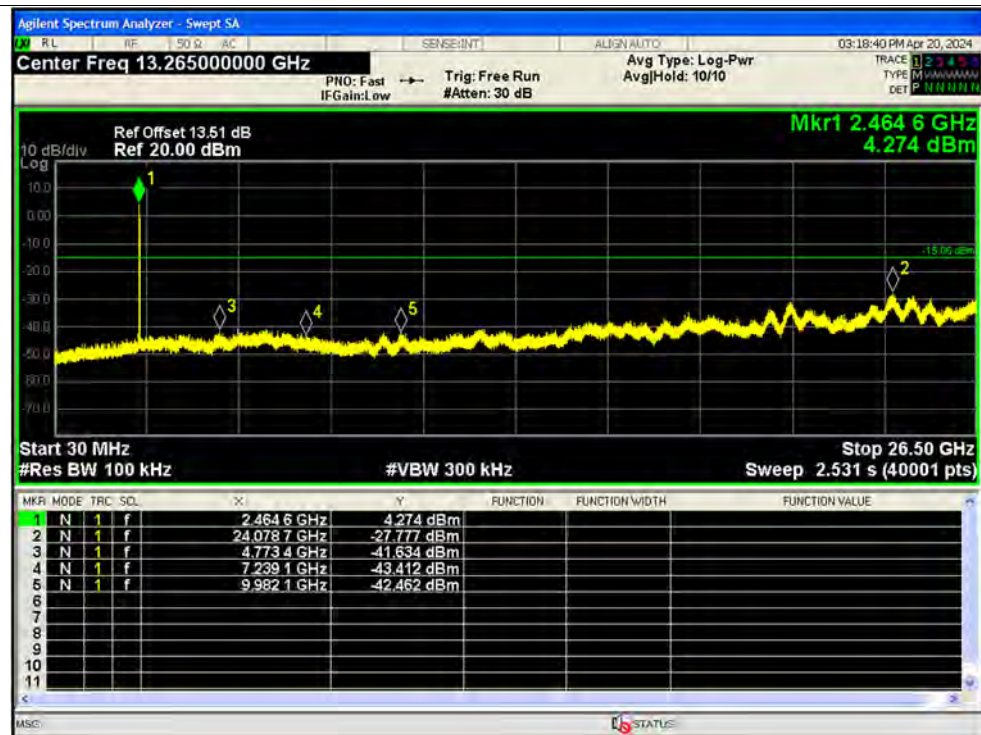
## Tx. Spurious NVNT g 2437MHz Ant2 Emission SISO



## Tx. Spurious NVNT g 2462MHz Ant2 Ref SISO



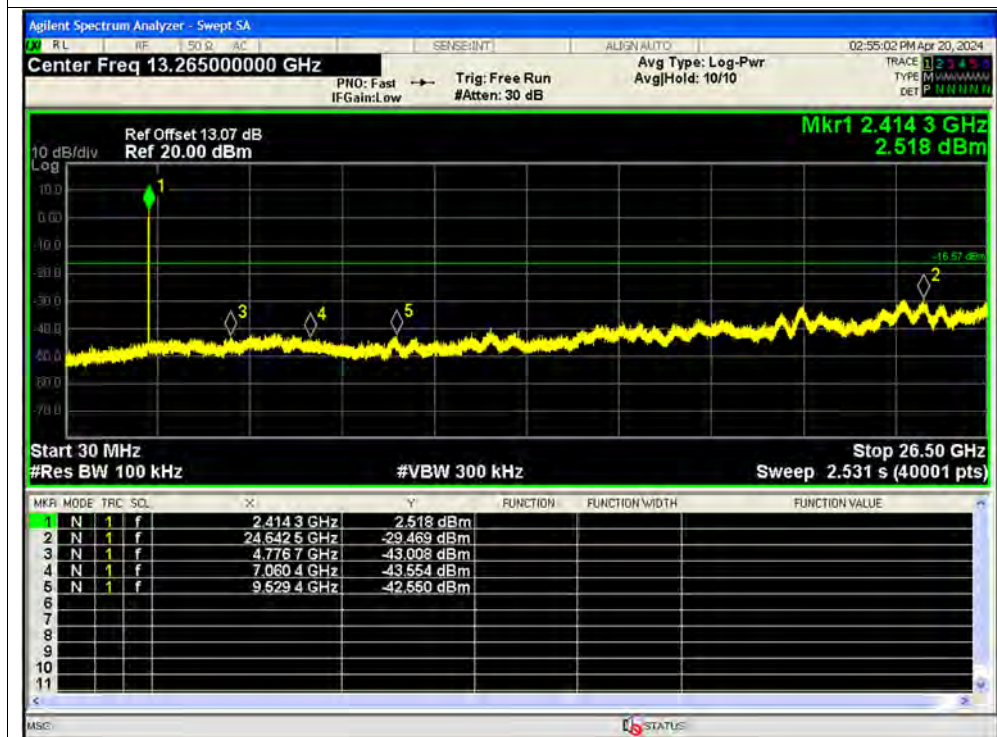
## Tx. Spurious NVNT g 2462MHz Ant2 Emission SISO



## Tx. Spurious NVNT n20 2412MHz Ant1 Ref SISO



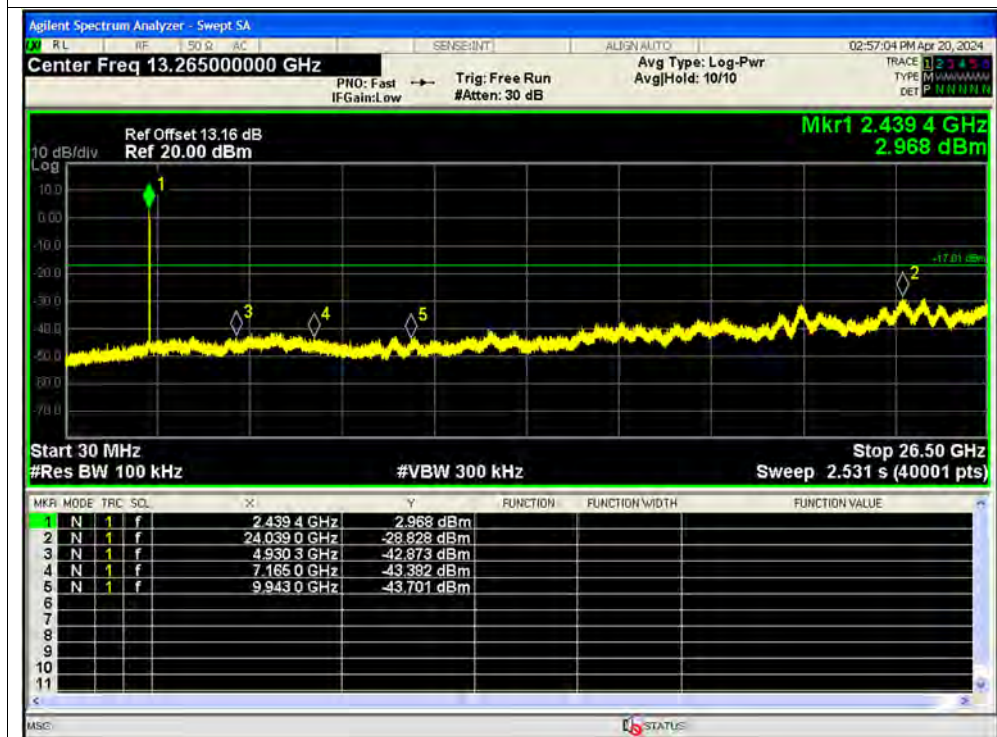
## Tx. Spurious NVNT n20 2412MHz Ant1 Emission SISO



## Tx. Spurious NVNT n20 2437MHz Ant1 Ref SISO



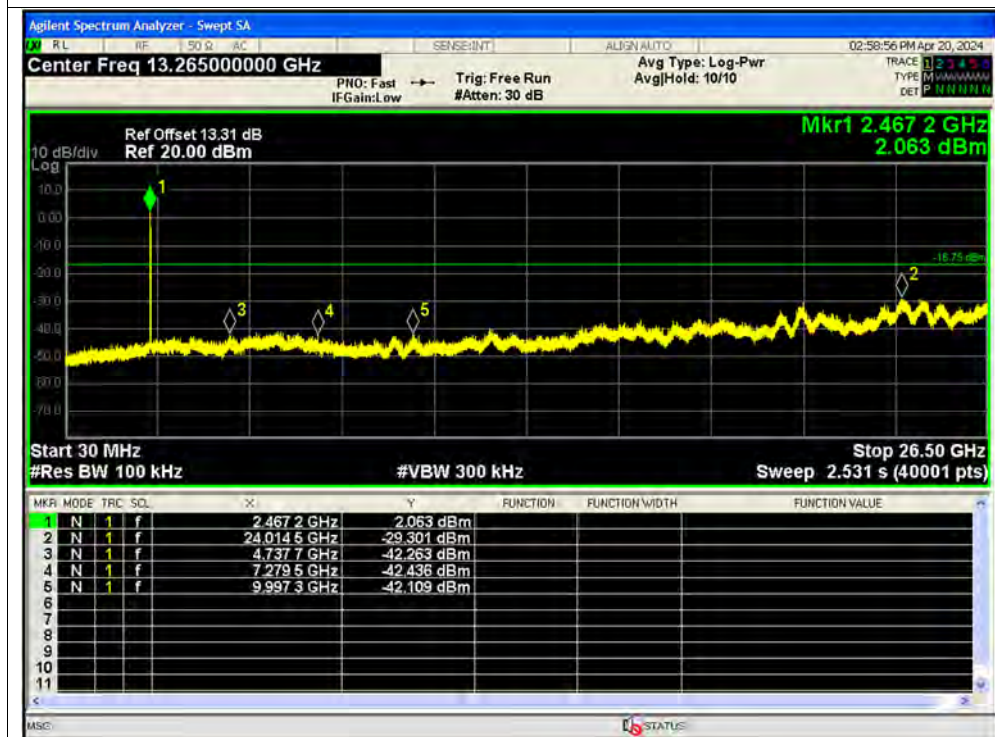
## Tx. Spurious NVNT n20 2437MHz Ant1 Emission SISO



## Tx. Spurious NVNT n20 2462MHz Ant1 Ref SISO



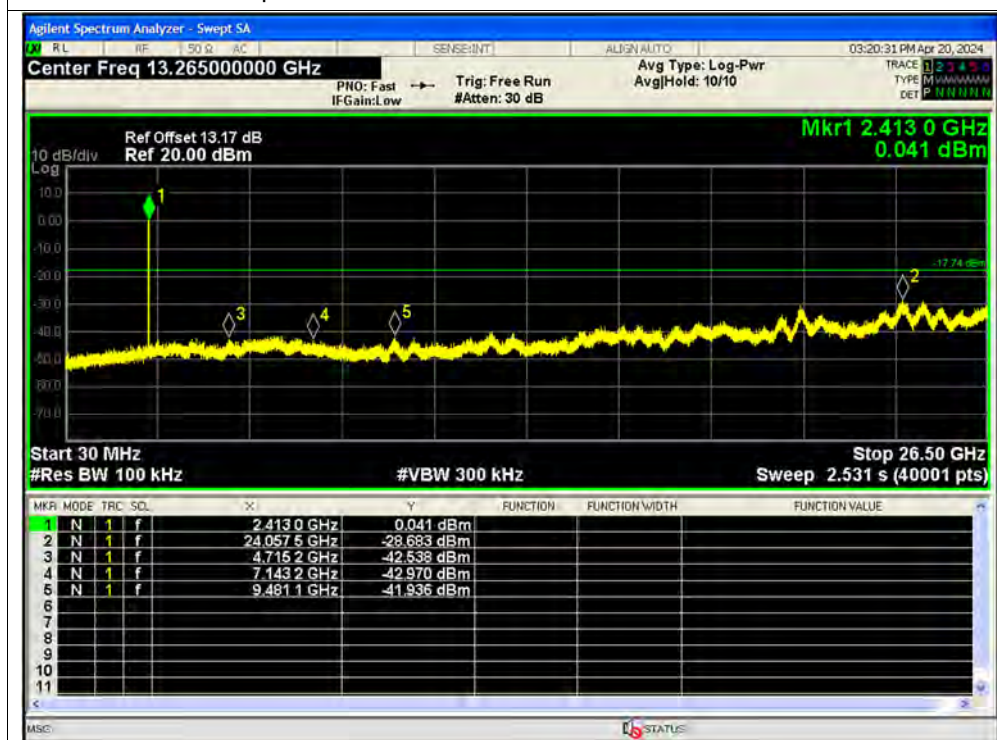
## Tx. Spurious NVNT n20 2462MHz Ant1 Emission SISO



## Tx. Spurious NVNT n20 2412MHz Ant2 Ref SISO



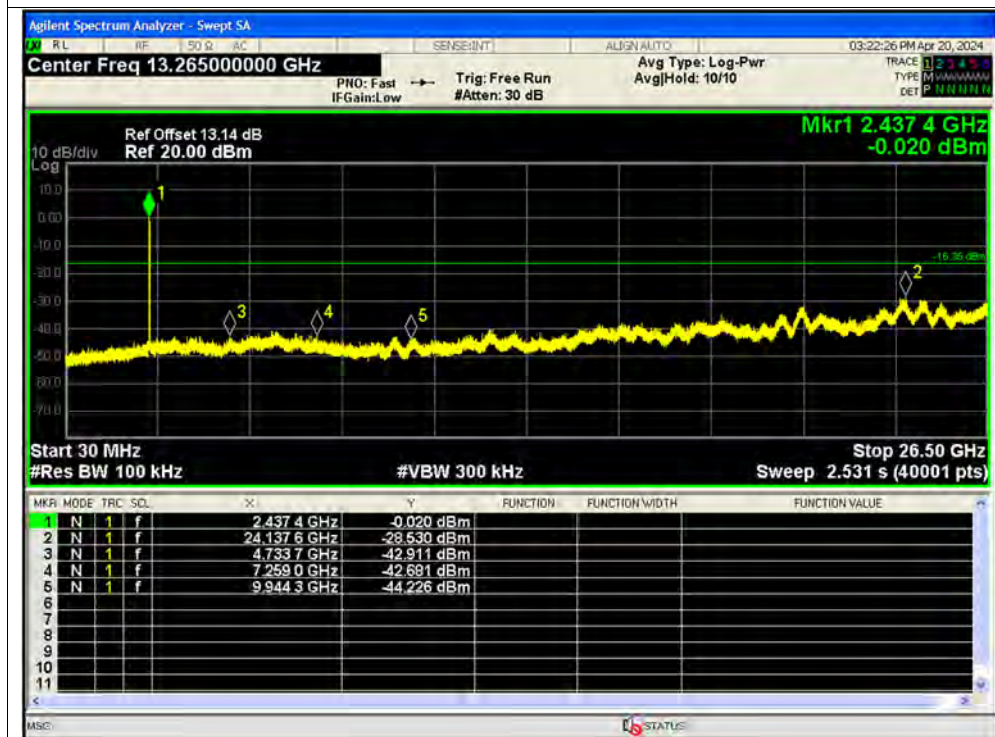
## Tx. Spurious NVNT n20 2412MHz Ant2 Emission SISO



## Tx. Spurious NVNT n20 2437MHz Ant2 Ref SISO



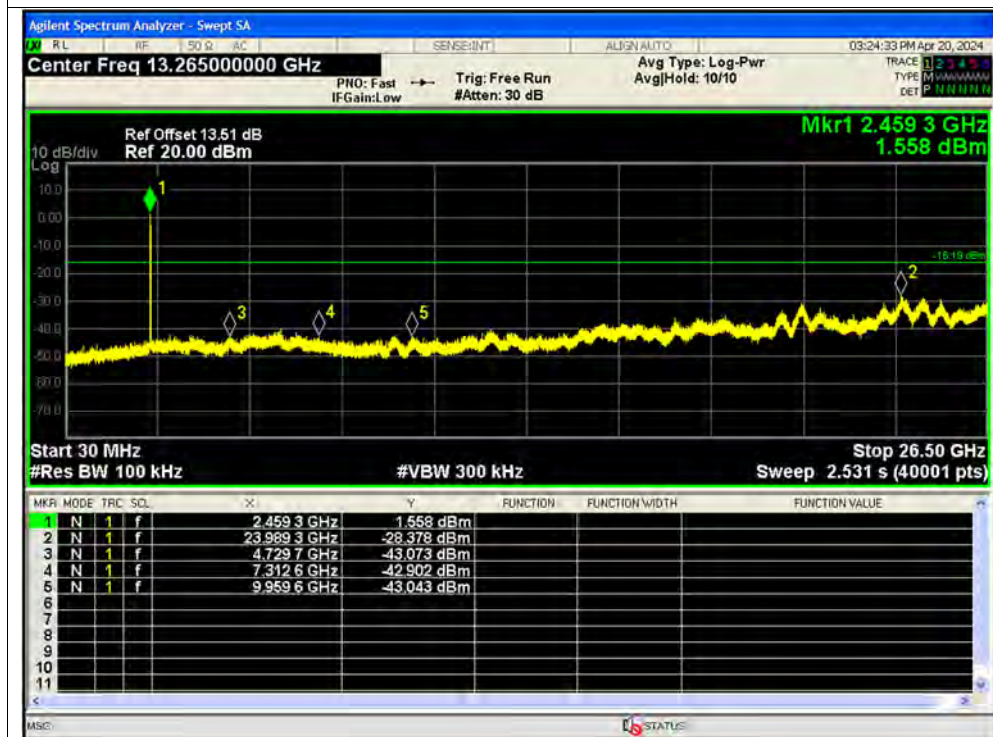
## Tx. Spurious NVNT n20 2437MHz Ant2 Emission SISO



## Tx. Spurious NVNT n20 2462MHz Ant2 Ref SISO



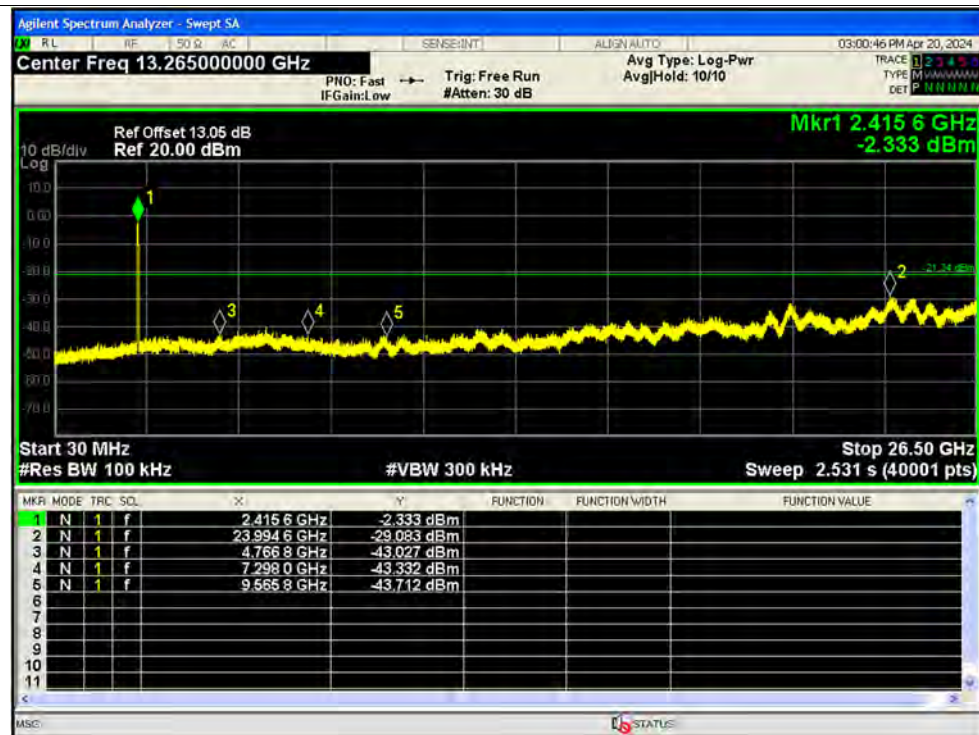
## Tx. Spurious NVNT n20 2462MHz Ant2 Emission SISO



## Tx. Spurious NVNT n40 2422MHz Ant1 Ref SISO



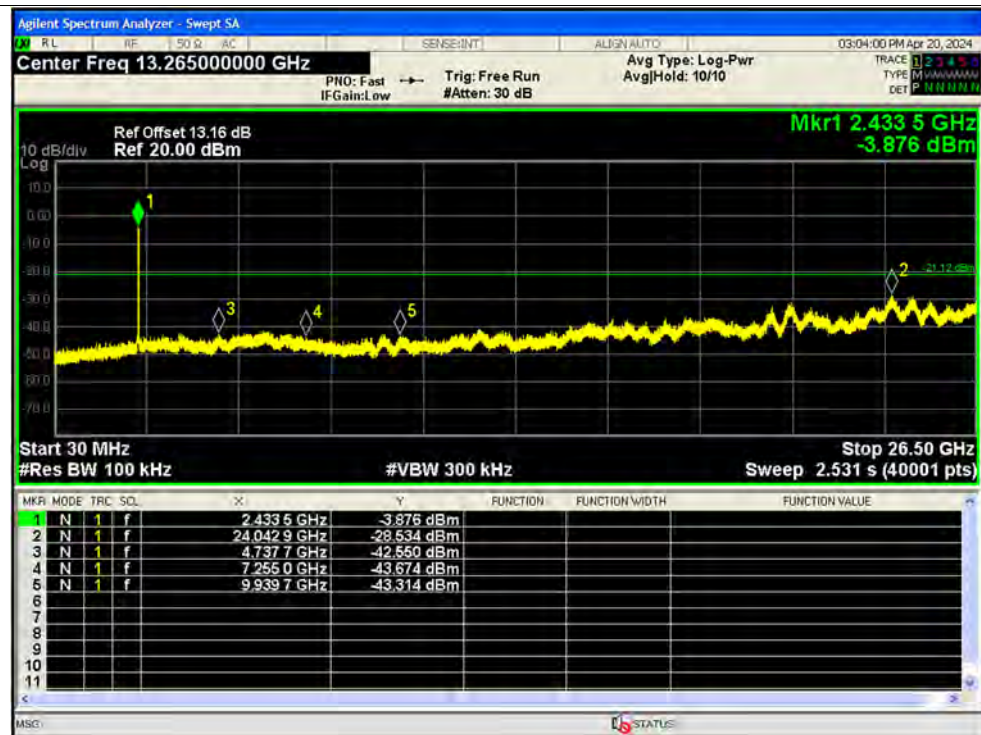
## Tx. Spurious NVNT n40 2422MHz Ant1 Emission SISO



## Tx. Spurious NVNT n40 2437MHz Ant1 Ref SISO



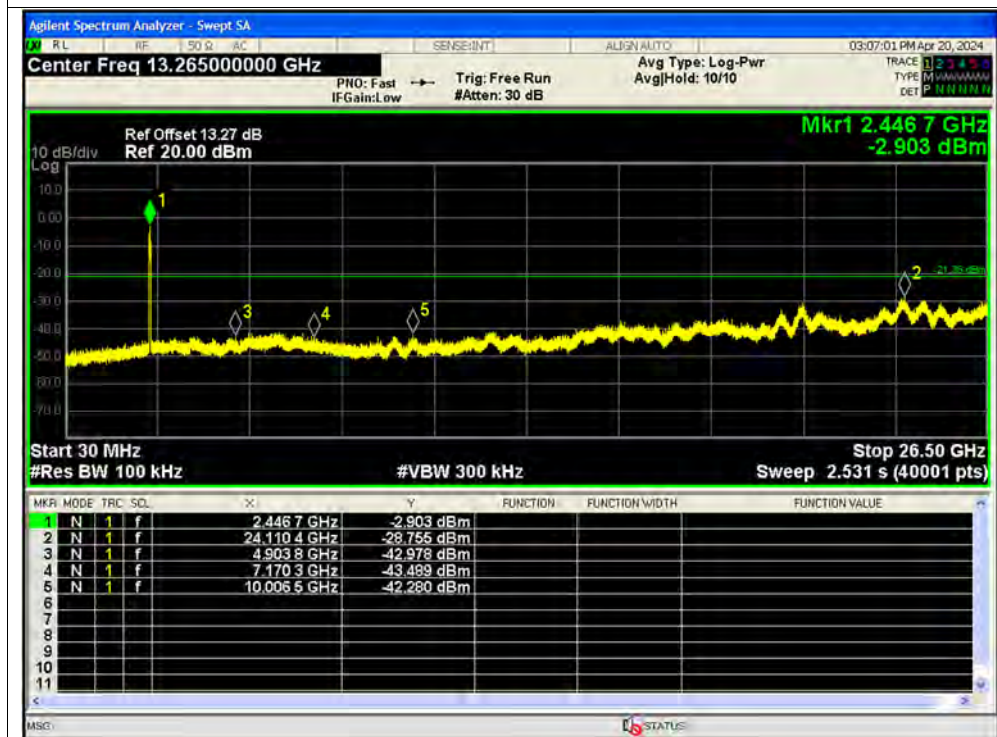
## Tx. Spurious NVNT n40 2437MHz Ant1 Emission SISO



## Tx. Spurious NVNT n40 2452MHz Ant1 Ref SISO



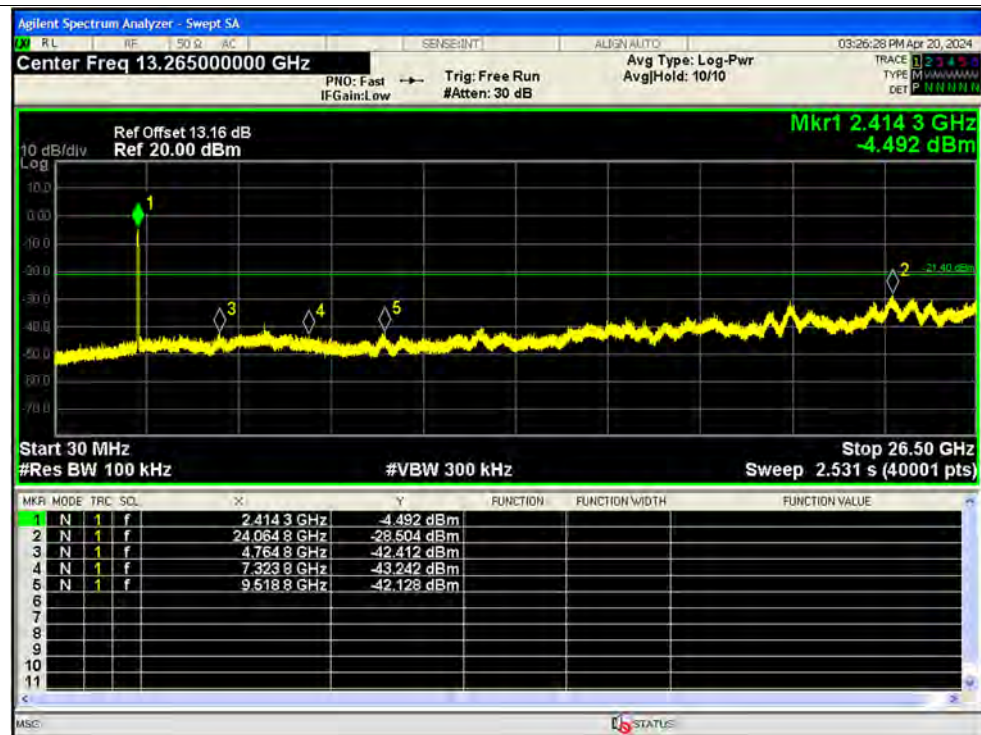
## Tx. Spurious NVNT n40 2452MHz Ant1 Emission SISO



## Tx. Spurious NVNT n40 2422MHz Ant2 Ref SISO



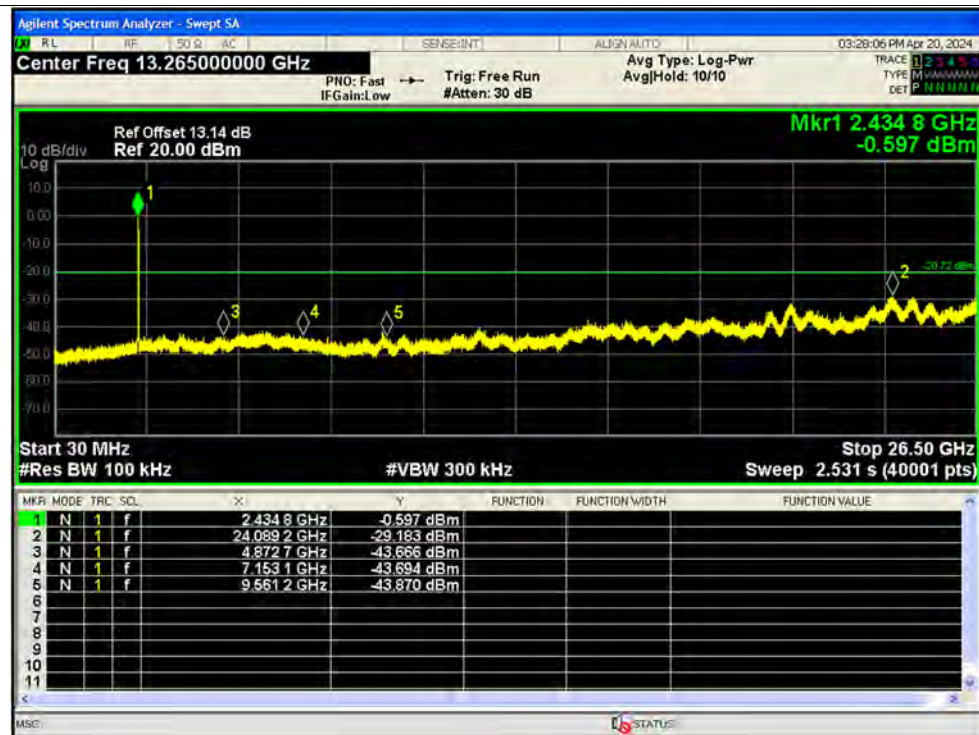
## Tx. Spurious NVNT n40 2422MHz Ant2 Emission SISO



## Tx. Spurious NVNT n40 2437MHz Ant2 Ref SISO



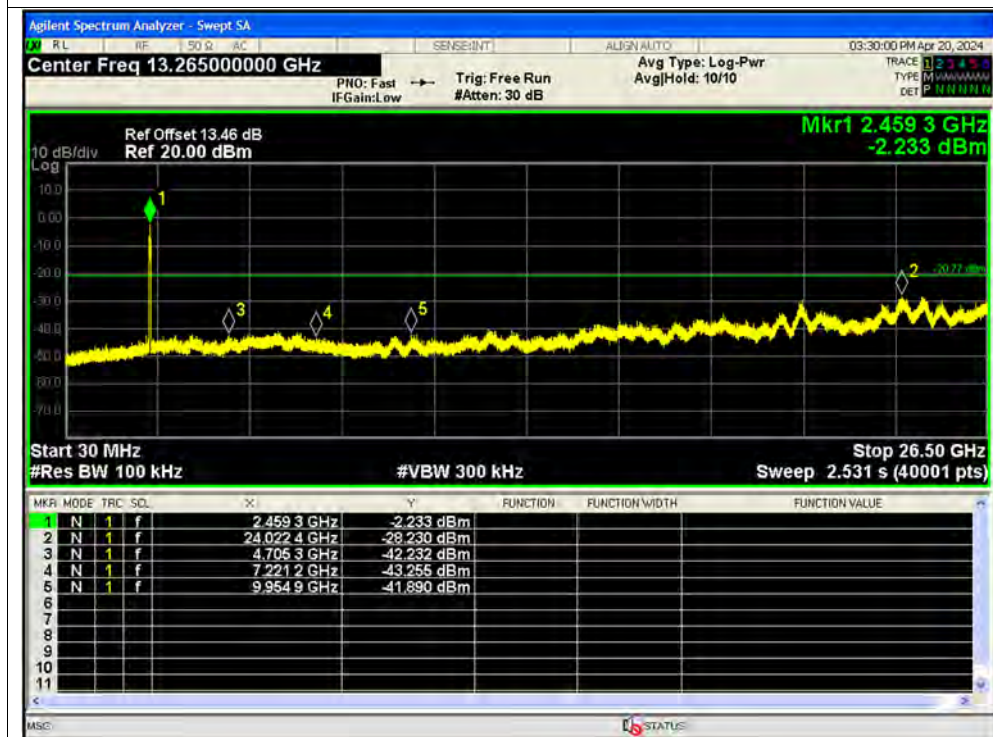
## Tx. Spurious NVNT n40 2437MHz Ant2 Emission SISO



## Tx. Spurious NVNT n40 2452MHz Ant2 Ref SISO



## Tx. Spurious NVNT n40 2452MHz Ant2 Emission SISO



**A.6. Band Edge**

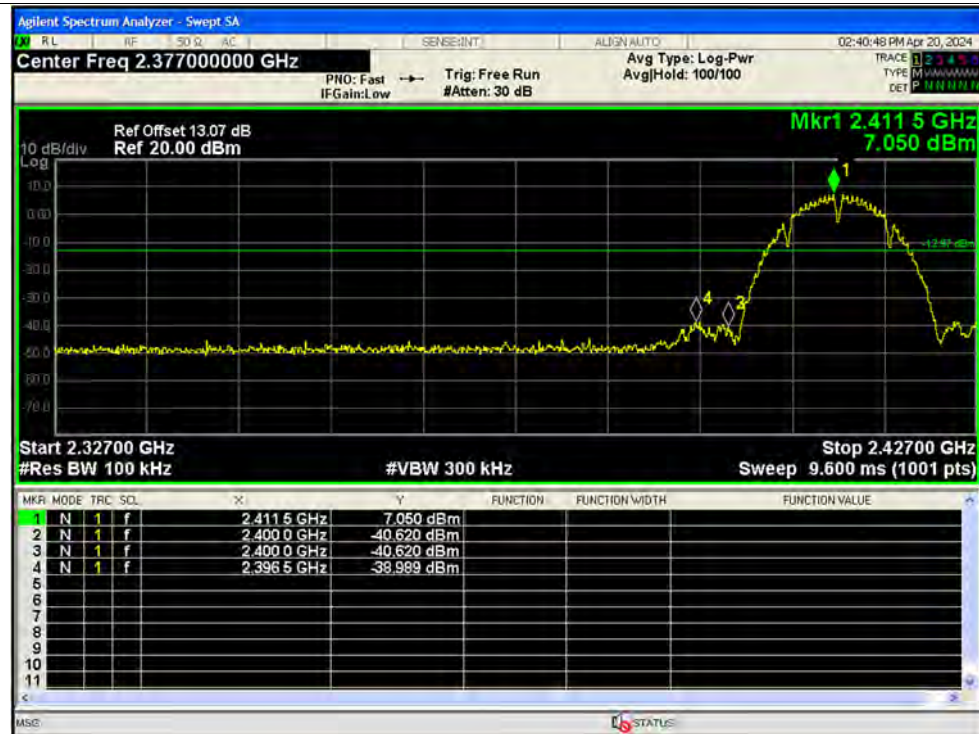
| Condition | Mode     | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|----------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b SISO   | 2412            | Ant1    | -46.02          | -20         | Pass    |
| NVNT      | b SISO   | 2462            | Ant1    | -52.8           | -20         | Pass    |
| NVNT      | b SISO   | 2412            | Ant2    | -45.39          | -20         | Pass    |
| NVNT      | b SISO   | 2462            | Ant2    | -52.21          | -20         | Pass    |
| NVNT      | g SISO   | 2412            | Ant1    | -42.86          | -20         | Pass    |
| NVNT      | g SISO   | 2462            | Ant1    | -50.07          | -20         | Pass    |
| NVNT      | g SISO   | 2412            | Ant2    | -44.2           | -20         | Pass    |
| NVNT      | g SISO   | 2462            | Ant2    | -49.78          | -20         | Pass    |
| NVNT      | n20 SISO | 2412            | Ant1    | -44.28          | -20         | Pass    |
| NVNT      | n20 SISO | 2462            | Ant1    | -48.56          | -20         | Pass    |
| NVNT      | n20 SISO | 2412            | Ant2    | -44.15          | -20         | Pass    |
| NVNT      | n20 SISO | 2462            | Ant2    | -49.08          | -20         | Pass    |
| NVNT      | n20 MIMO | 2412            | Ant1    | -43.83          | -20         | Pass    |
| NVNT      | n20 MIMO | 2412            | Ant2    | -43.34          | -20         | Pass    |
| NVNT      | n20 MIMO | 2462            | Ant1    | -47.22          | -20         | Pass    |
| NVNT      | n20 MIMO | 2462            | Ant2    | -49.48          | -20         | Pass    |
| NVNT      | n40 SISO | 2422            | Ant1    | -38.15          | -20         | Pass    |
| NVNT      | n40 SISO | 2452            | Ant1    | -44.91          | -20         | Pass    |
| NVNT      | n40 SISO | 2422            | Ant2    | -36.69          | -20         | Pass    |
| NVNT      | n40 SISO | 2452            | Ant2    | -44.07          | -20         | Pass    |
| NVNT      | n40 MIMO | 2422            | Ant1    | -37.61          | -20         | Pass    |
| NVNT      | n40 MIMO | 2422            | Ant2    | -36.06          | -20         | Pass    |
| NVNT      | n40 MIMO | 2452            | Ant1    | -42.85          | -20         | Pass    |
| NVNT      | n40 MIMO | 2452            | Ant2    | -43.7           | -20         | Pass    |

## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref SISO



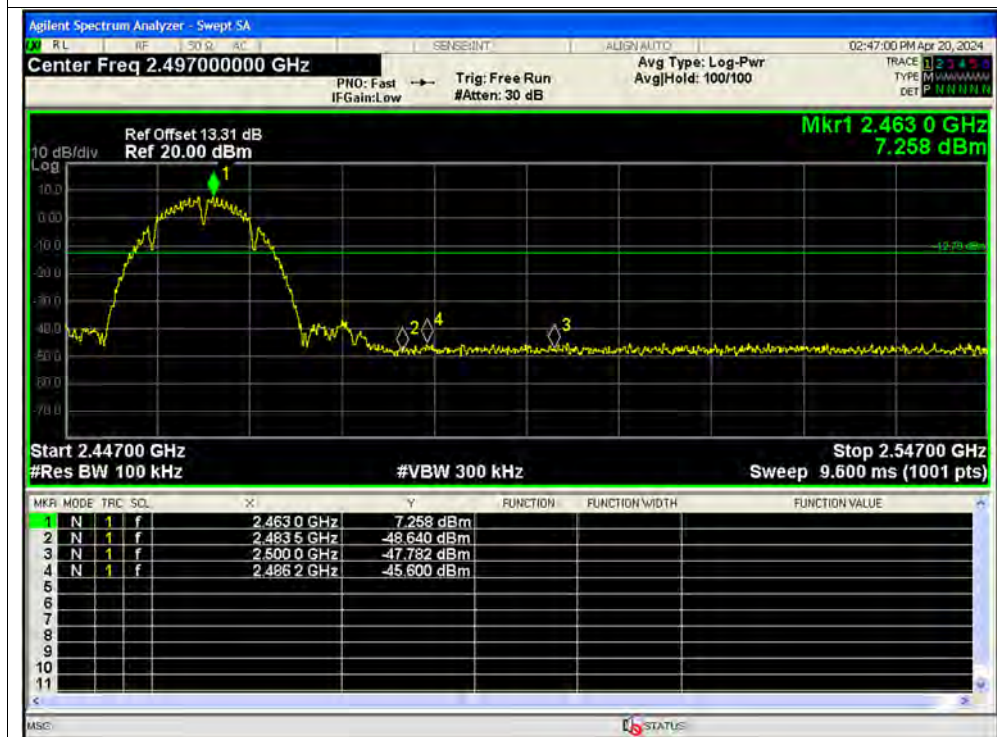
## Band Edge NVNT b 2412MHz Ant1 Emission SISO



### Band Edge NVNT b 2462MHz Ant1 Ref SISO



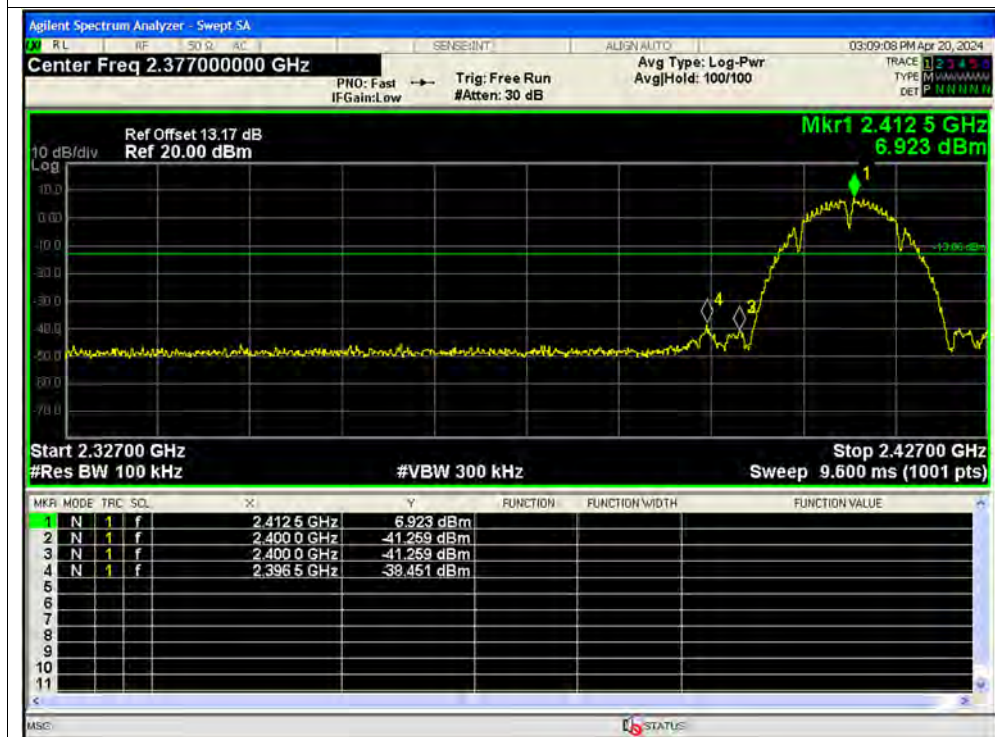
### Band Edge NVNT b 2462MHz Ant1 Emission SISO



### Band Edge NVNT b 2412MHz Ant2 Ref SISO



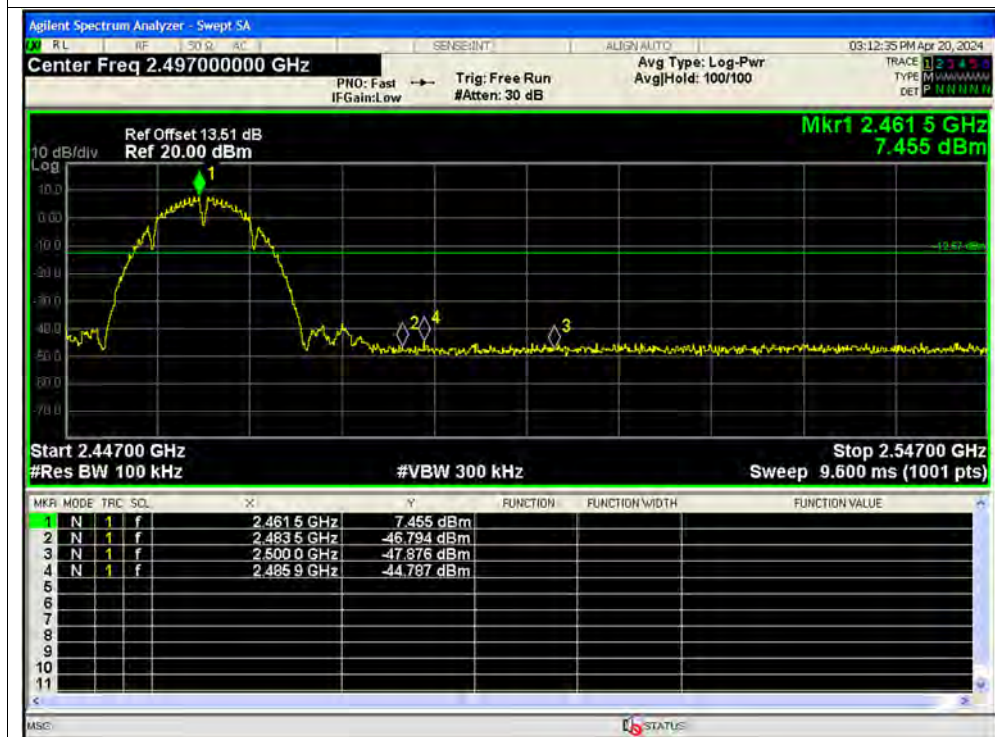
### Band Edge NVNT b 2412MHz Ant2 Emission SISO



### Band Edge NVNT b 2462MHz Ant2 Ref SISO



### Band Edge NVNT b 2462MHz Ant2 Emission SISO





## Band Edge NVNT g 2412MHz Ant1 Ref SISO



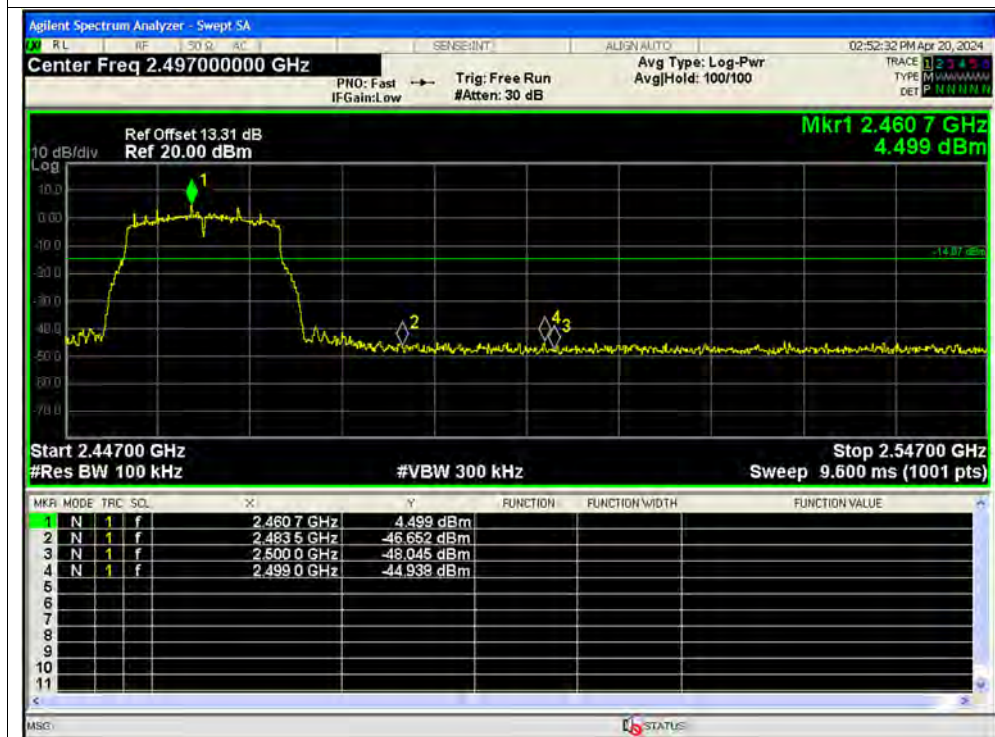
## Band Edge NVNT g 2412MHz Ant1 Emission SISO



### Band Edge NVNT g 2462MHz Ant1 Ref SISO



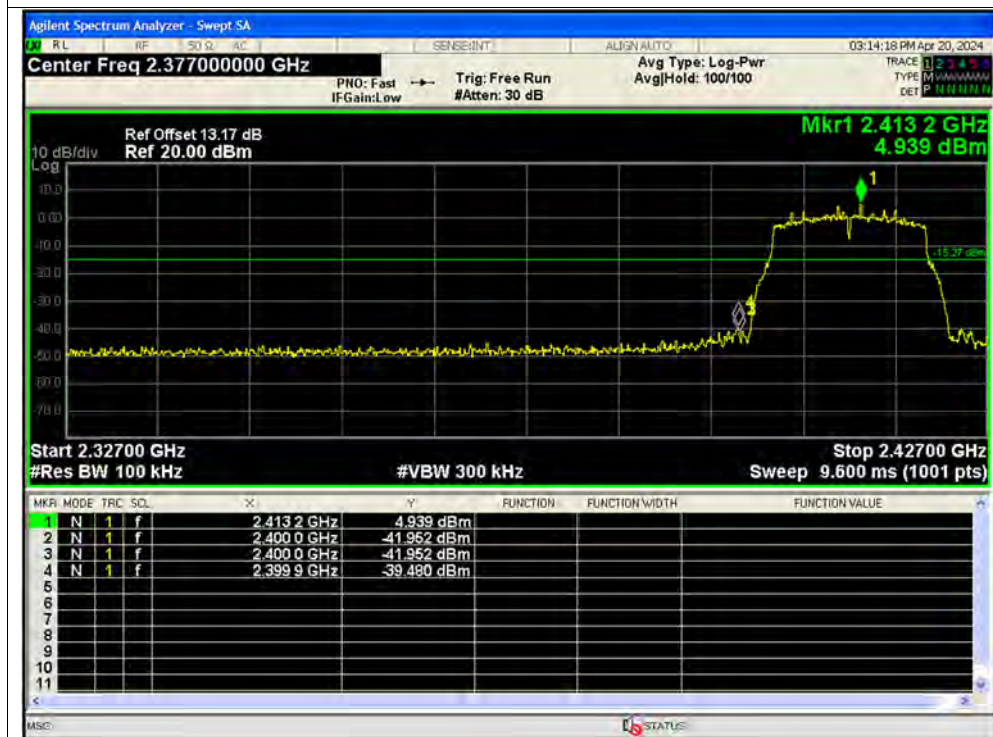
### Band Edge NVNT g 2462MHz Ant1 Emission SISO



### Band Edge NVNT g 2412MHz Ant2 Ref SISO



### Band Edge NVNT g 2412MHz Ant2 Emission SISO



### Band Edge NVNT g 2462MHz Ant2 Ref SISO



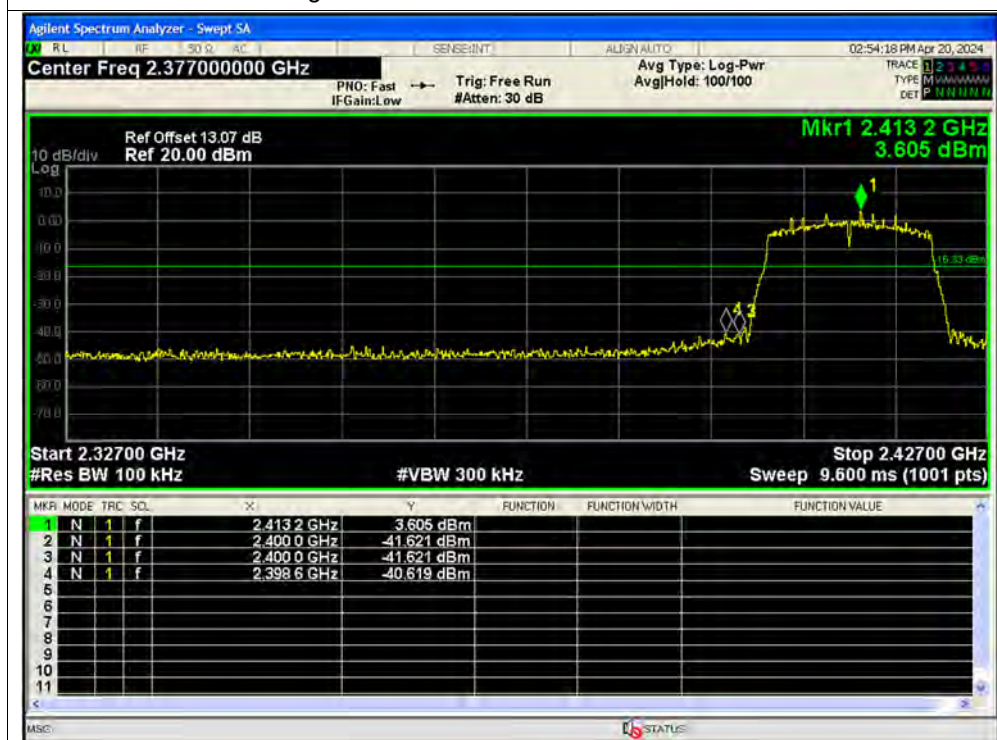
### Band Edge NVNT g 2462MHz Ant2 Emission SISO



### Band Edge NVNT n20 2412MHz Ant1 Ref SISO



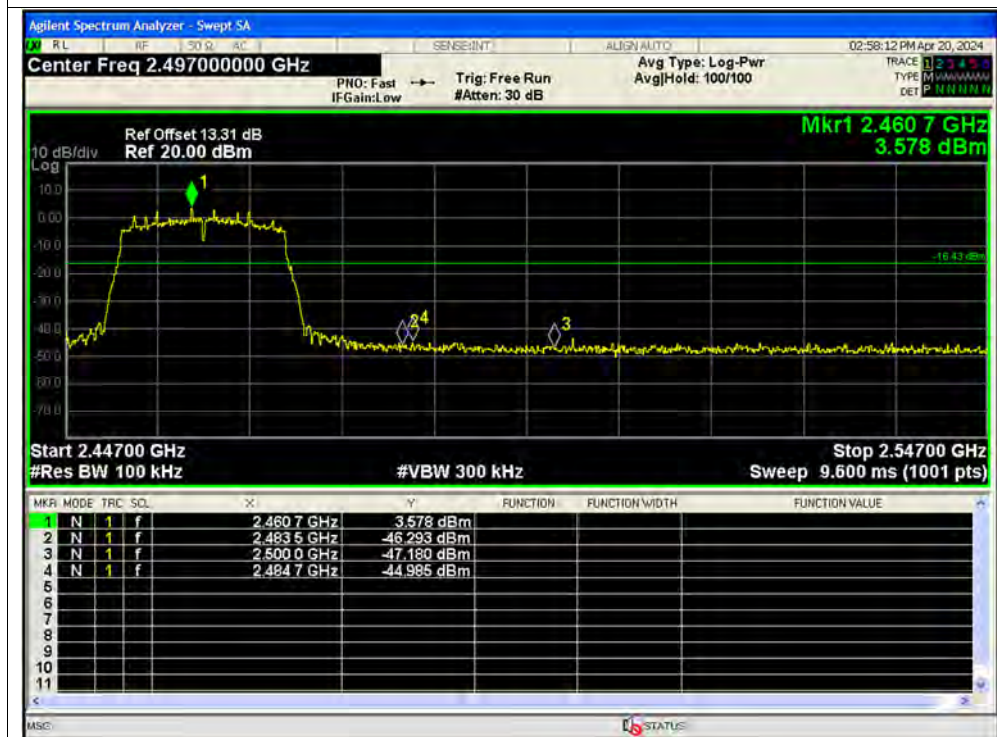
### Band Edge NVNT n20 2412MHz Ant1 Emission SISO



### Band Edge NVNT n20 2462MHz Ant1 Ref SISO



### Band Edge NVNT n20 2462MHz Ant1 Emission SISO

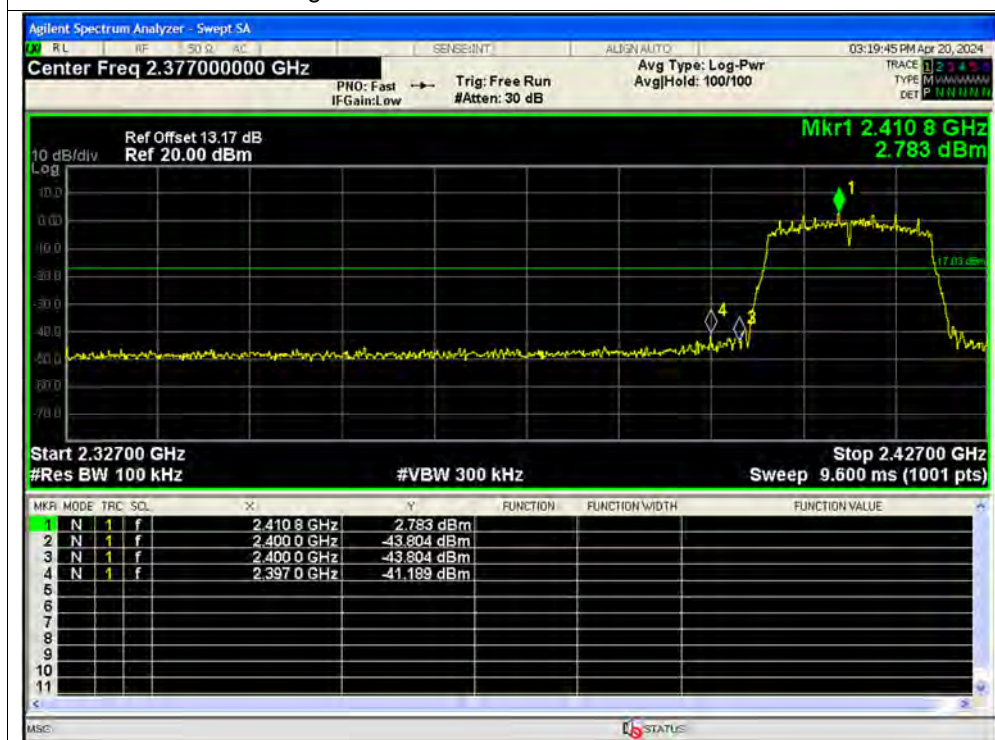




## Band Edge NVNT n20 2412MHz Ant2 Ref SISO



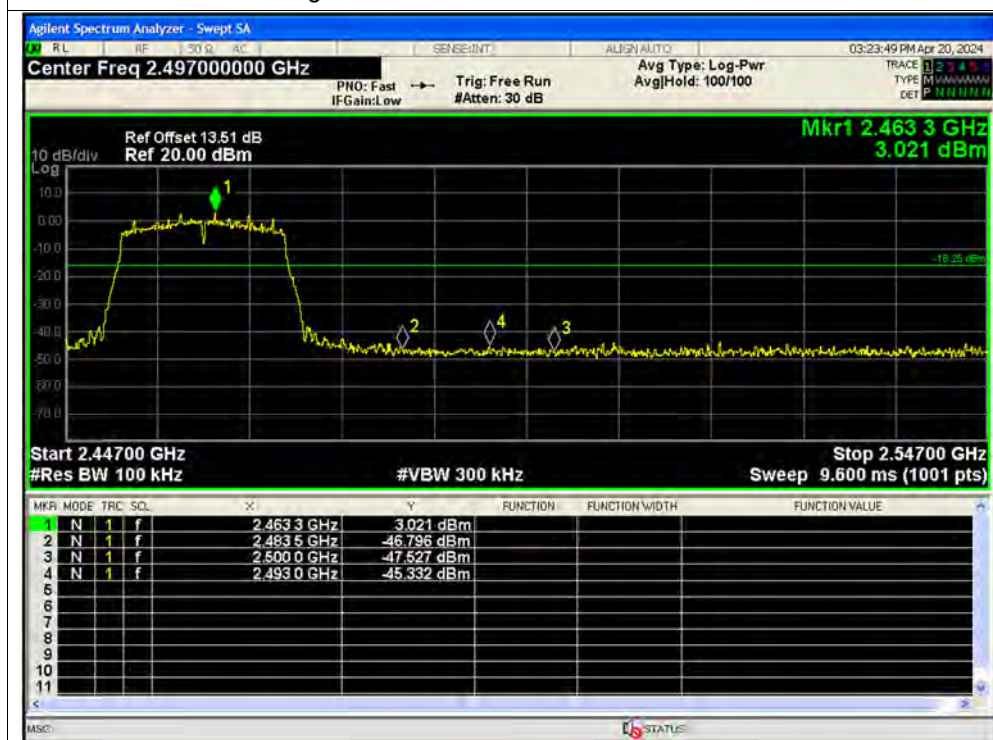
## Band Edge NVNT n20 2412MHz Ant2 Emission SISO



### Band Edge NVNT n20 2462MHz Ant2 Ref SISO



### Band Edge NVNT n20 2462MHz Ant2 Emission SISO

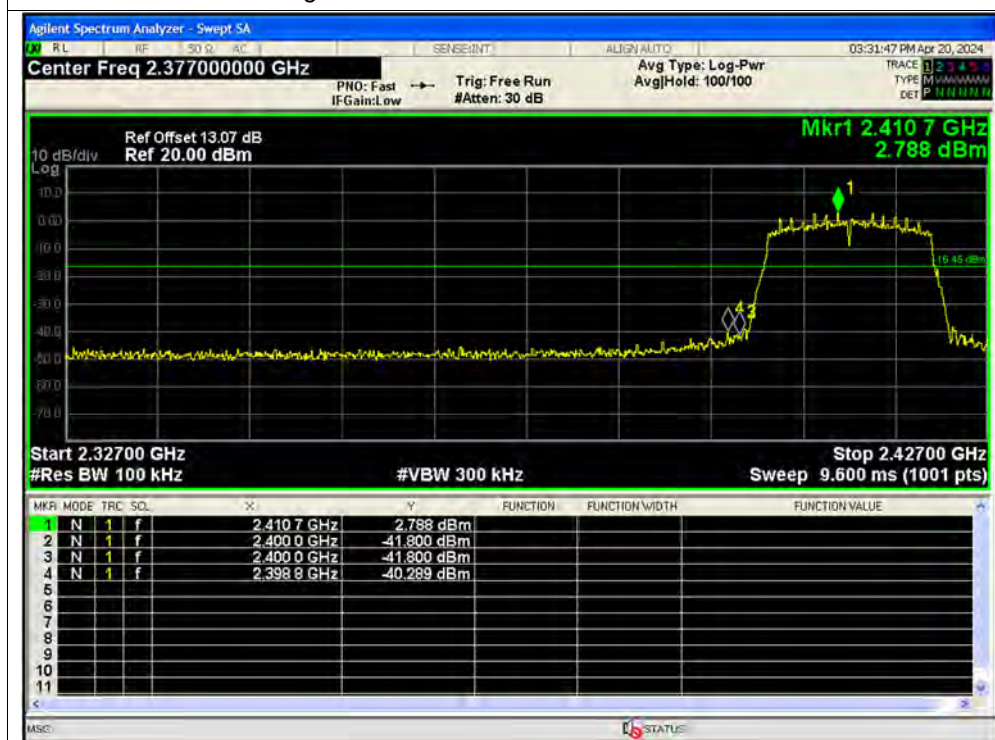




## Band Edge NVNT n20 2412MHz Ant1 Ref MIMO



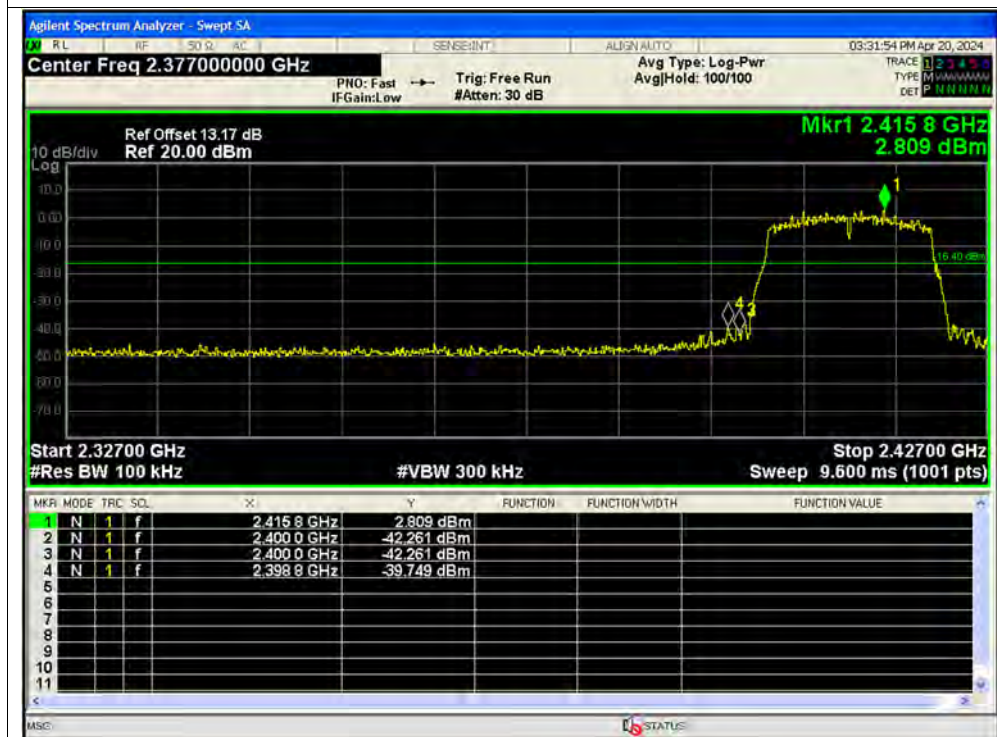
## Band Edge NVNT n20 2412MHz Ant1 Emission MIMO



### Band Edge NVNT n20 2412MHz Ant2 Ref MIMO



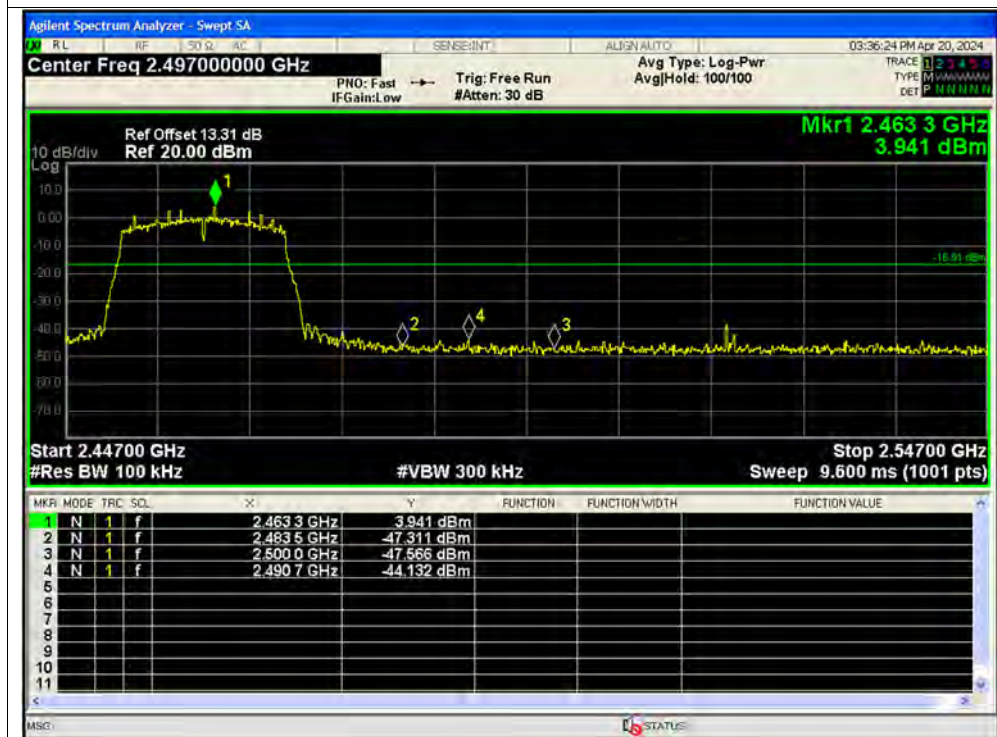
### Band Edge NVNT n20 2412MHz Ant2 Emission MIMO



### Band Edge NVNT n20 2462MHz Ant1 Ref MIMO



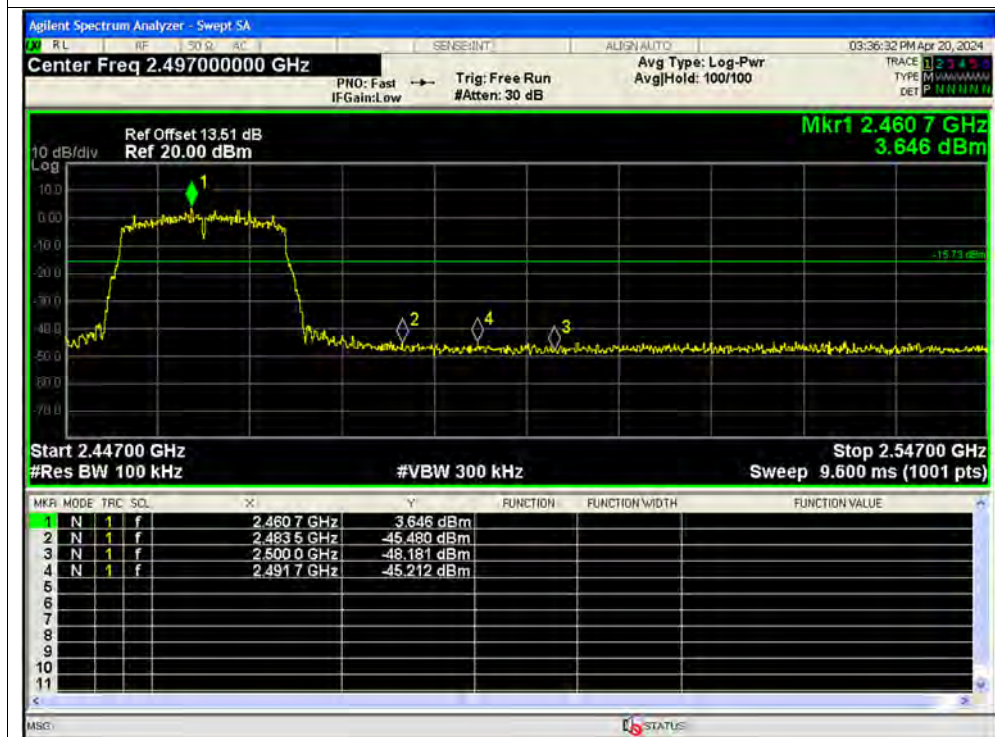
### Band Edge NVNT n20 2462MHz Ant1 Emission MIMO



### Band Edge NVNT n20 2462MHz Ant2 Ref MIMO



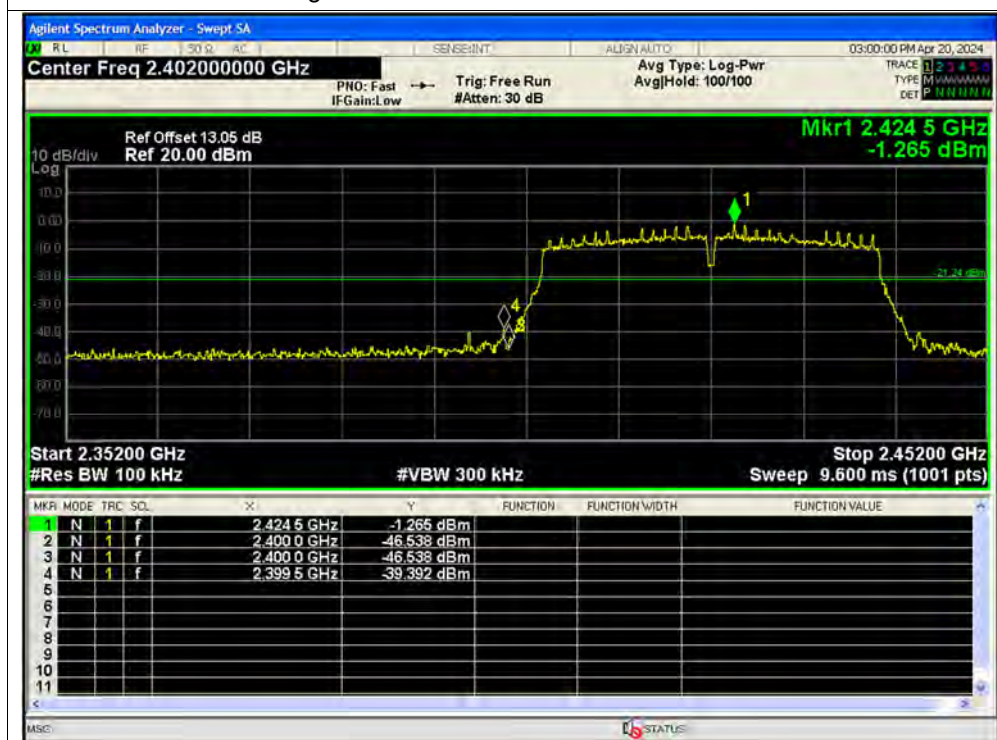
### Band Edge NVNT n20 2462MHz Ant2 Emission MIMO



## Band Edge NVNT n40 2422MHz Ant1 Ref SISO



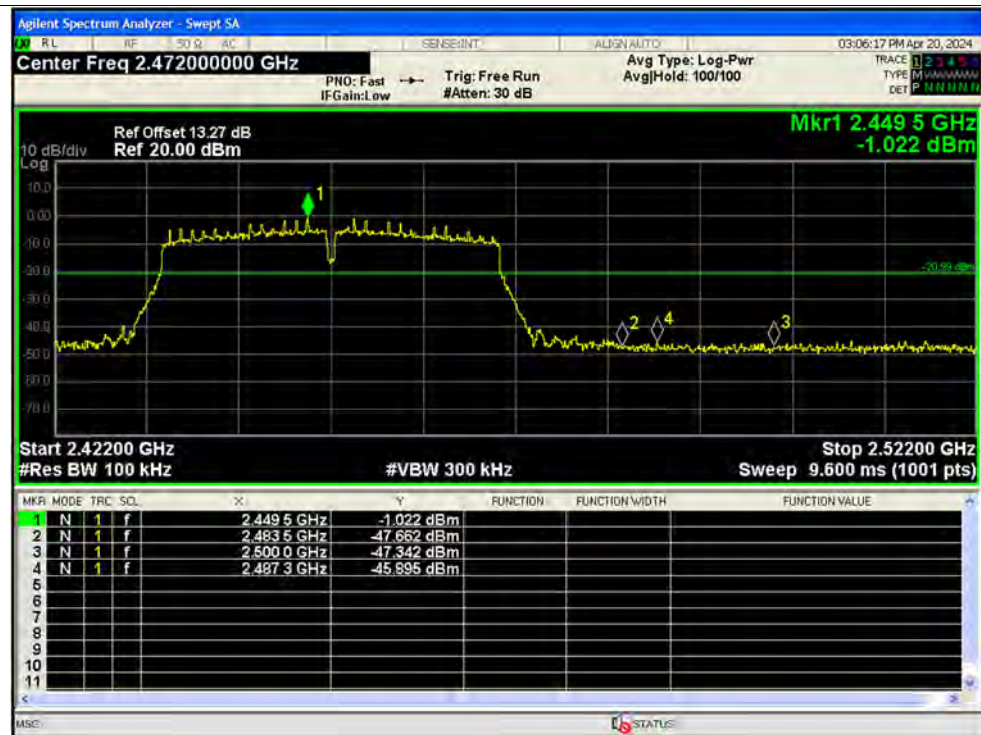
## Band Edge NVNT n40 2422MHz Ant1 Emission SISO



## Band Edge NVNT n40 2452MHz Ant1 Ref SISO



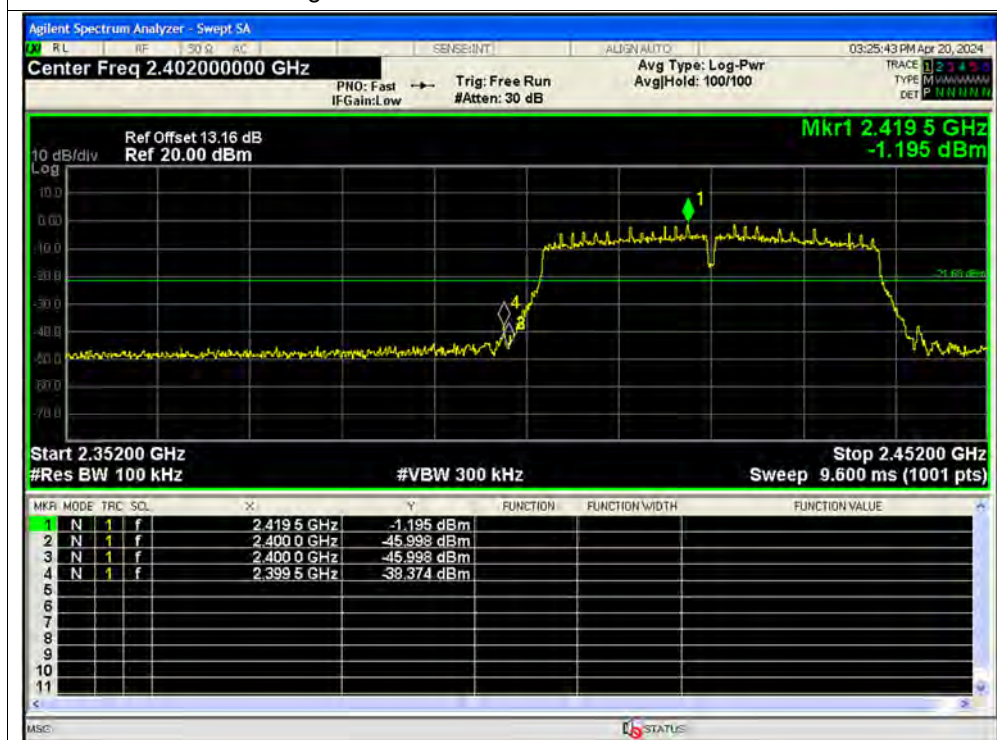
## Band Edge NVNT n40 2452MHz Ant1 Emission SISO



### Band Edge NVNT n40 2422MHz Ant2 Ref SISO



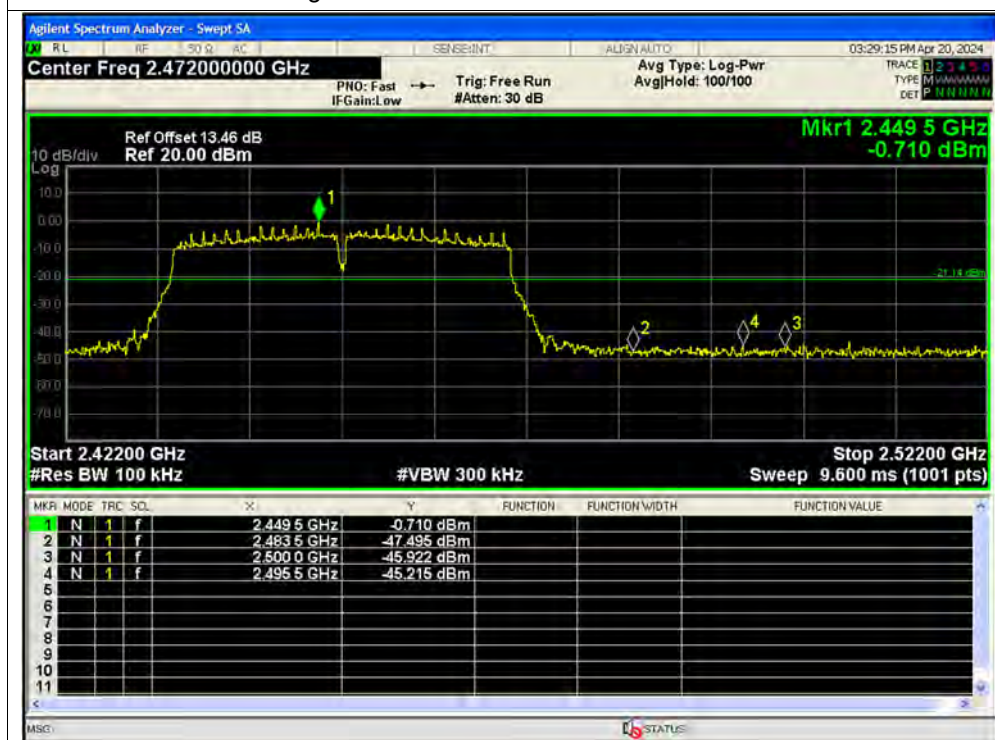
### Band Edge NVNT n40 2422MHz Ant2 Emission SISO



## Band Edge NVNT n40 2452MHz Ant2 Ref SISO



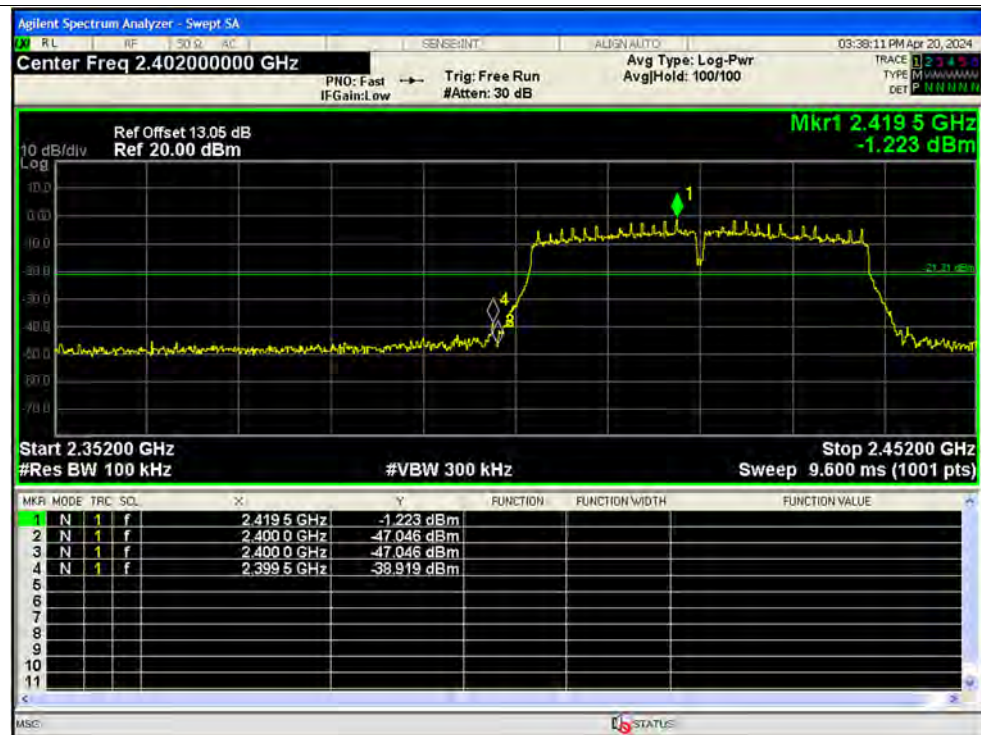
## Band Edge NVNT n40 2452MHz Ant2 Emission SISO



## Band Edge NVNT n40 2422MHz Ant1 Ref MIMO



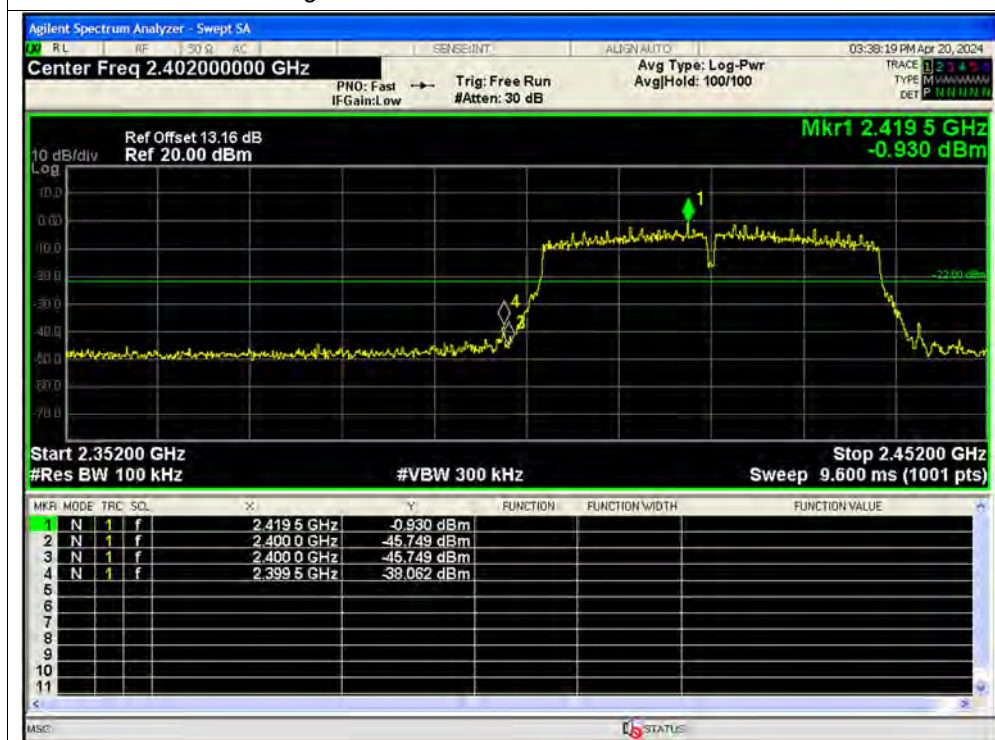
## Band Edge NVNT n40 2422MHz Ant1 Emission MIMO



### Band Edge NVNT n40 2422MHz Ant2 Ref MIMO



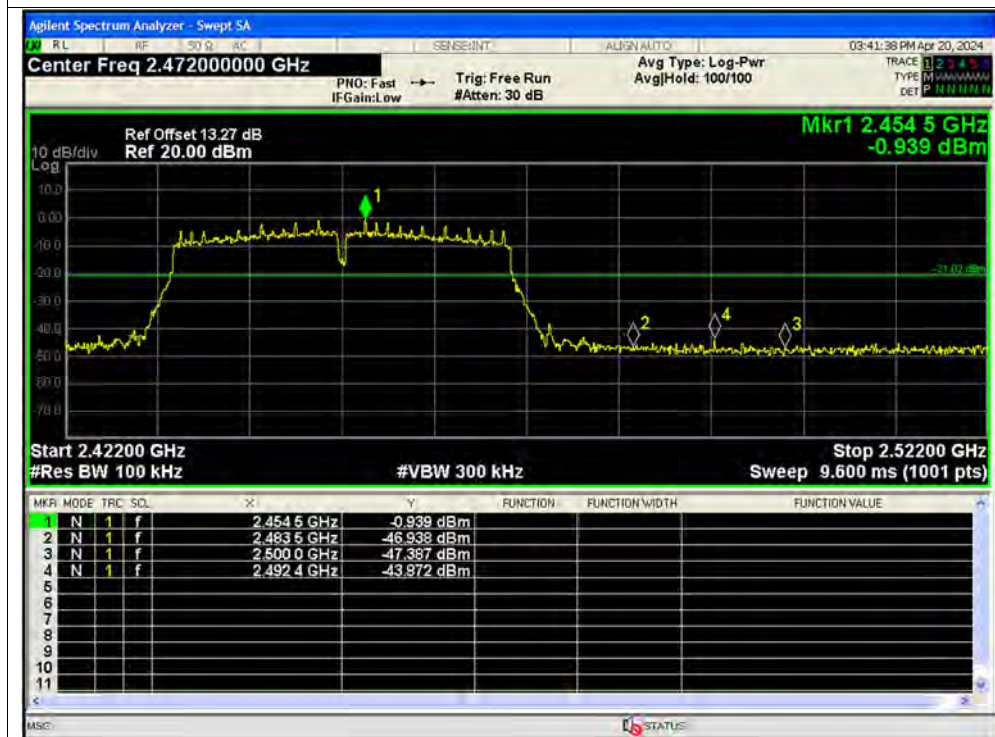
### Band Edge NVNT n40 2422MHz Ant2 Emission MIMO



## Band Edge NVNT n40 2452MHz Ant1 Ref MIMO



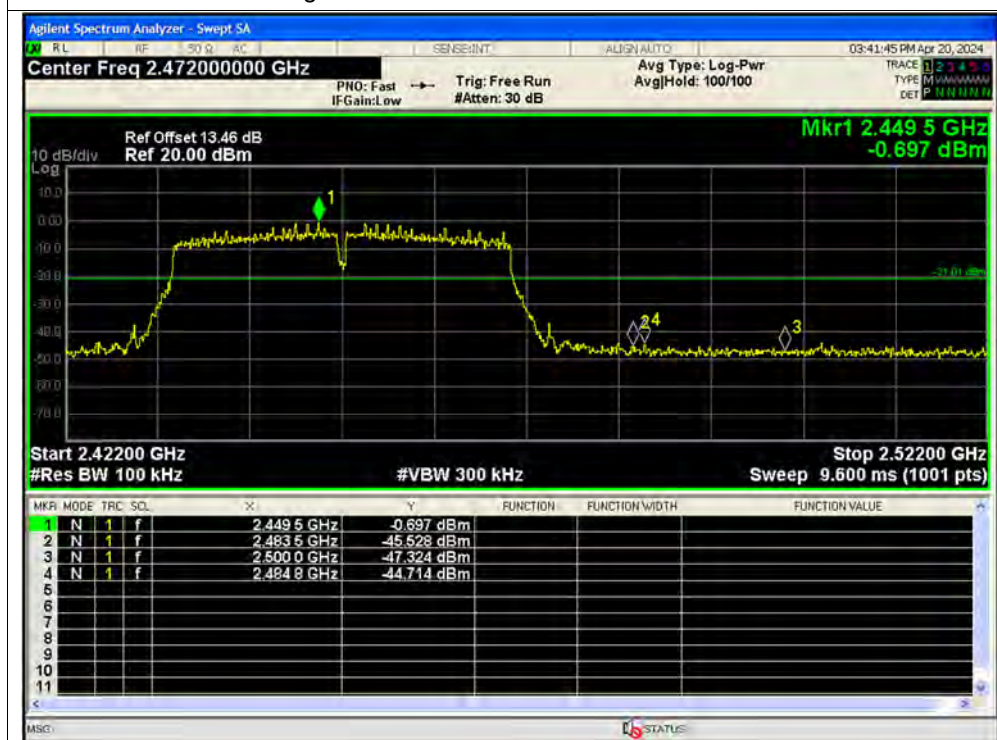
## Band Edge NVNT n40 2452MHz Ant1 Emission MIMO



### Band Edge NVNT n40 2452MHz Ant2 Ref MIMO



### Band Edge NVNT n40 2452MHz Ant2 Emission MIMO



**A.7. Power Spectral Density**

| Condition | Mode     | Frequency (MHz) | Antenna | Conducted PSD (dBm /3kHz) | Duty Factor (dB) | Total PSD (dBm /3kHz) | Limit (dBm /3kHz) | Verdict |
|-----------|----------|-----------------|---------|---------------------------|------------------|-----------------------|-------------------|---------|
| NVNT      | b SISO   | 2412            | Ant1    | -4.07                     | 0                | -4.07                 | 8                 | Pass    |
| NVNT      | b SISO   | 2437            | Ant1    | -7.55                     | 0                | -7.55                 | 8                 | Pass    |
| NVNT      | b SISO   | 2462            | Ant1    | -3.72                     | 0                | -3.72                 | 8                 | Pass    |
| NVNT      | b SISO   | 2412            | Ant2    | -5.15                     | 0                | -5.15                 | 8                 | Pass    |
| NVNT      | b SISO   | 2437            | Ant2    | -3.68                     | 0                | -3.68                 | 8                 | Pass    |
| NVNT      | b SISO   | 2462            | Ant2    | -4.57                     | 0                | -4.57                 | 8                 | Pass    |
| NVNT      | g SISO   | 2412            | Ant1    | -10.76                    | 0                | -10.76                | 8                 | Pass    |
| NVNT      | g SISO   | 2437            | Ant1    | -10.83                    | 0                | -10.83                | 8                 | Pass    |
| NVNT      | g SISO   | 2462            | Ant1    | -10.51                    | 0                | -10.51                | 8                 | Pass    |
| NVNT      | g SISO   | 2412            | Ant2    | -10.21                    | 0                | -10.21                | 8                 | Pass    |
| NVNT      | g SISO   | 2437            | Ant2    | -11.01                    | 0                | -11.01                | 8                 | Pass    |
| NVNT      | g SISO   | 2462            | Ant2    | -10.18                    | 0                | -10.18                | 8                 | Pass    |
| NVNT      | n20 SISO | 2412            | Ant1    | -10.62                    | 0                | -10.62                | 8                 | Pass    |
| NVNT      | n20 SISO | 2437            | Ant1    | -10.51                    | 0                | -10.51                | 8                 | Pass    |
| NVNT      | n20 SISO | 2462            | Ant1    | -10.58                    | 0                | -10.58                | 8                 | Pass    |
| NVNT      | n20 SISO | 2412            | Ant2    | -10.8                     | 0                | -10.8                 | 8                 | Pass    |
| NVNT      | n20 SISO | 2437            | Ant2    | -10.57                    | 0                | -10.57                | 8                 | Pass    |
| NVNT      | n20 SISO | 2462            | Ant2    | -10.28                    | 0                | -10.28                | 8                 | Pass    |
| NVNT      | n20 MIMO | 2412            | Ant1    | -10.66                    | 0                | -10.66                | 8                 | Pass    |
| NVNT      | n20 MIMO | 2412            | Ant2    | -11.01                    | 0                | -11.01                | 8                 | Pass    |
| NVNT      | n20 MIMO | 2412            | Sum     | -7.82                     | 0                | -7.82                 | 8                 | Pass    |
| NVNT      | n20 MIMO | 2437            | Ant1    | -10.69                    | 0                | -10.69                | 8                 | Pass    |
| NVNT      | n20 MIMO | 2437            | Ant2    | -11.14                    | 0                | -11.14                | 8                 | Pass    |
| NVNT      | n20 MIMO | 2437            | Sum     | -7.9                      | 0                | -7.9                  | 8                 | Pass    |
| NVNT      | n20 MIMO | 2462            | Ant1    | -10.7                     | 0                | -10.7                 | 8                 | Pass    |
| NVNT      | n20 MIMO | 2462            | Ant2    | -11.14                    | 0                | -11.14                | 8                 | Pass    |
| NVNT      | n20 MIMO | 2462            | Sum     | -7.9                      | 0                | -7.9                  | 8                 | Pass    |
| NVNT      | n40 SISO | 2422            | Ant1    | -17.07                    | 0                | -17.07                | 8                 | Pass    |
| NVNT      | n40 SISO | 2437            | Ant1    | -16.06                    | 0                | -16.06                | 8                 | Pass    |
| NVNT      | n40 SISO | 2452            | Ant1    | -16.27                    | 0                | -16.27                | 8                 | Pass    |
| NVNT      | n40 SISO | 2422            | Ant2    | -16.36                    | 0                | -16.36                | 8                 | Pass    |
| NVNT      | n40 SISO | 2437            | Ant2    | -16.78                    | 0                | -16.78                | 8                 | Pass    |
| NVNT      | n40 SISO | 2452            | Ant2    | -16.24                    | 0                | -16.24                | 8                 | Pass    |



REPORT No.: SZ24030326W03

|      |          |      |      |        |   |        |   |      |
|------|----------|------|------|--------|---|--------|---|------|
| NVNT | n40 MIMO | 2422 | Ant1 | -17.04 | 0 | -17.04 | 8 | Pass |
| NVNT | n40 MIMO | 2422 | Ant2 | -16.18 | 0 | -16.18 | 8 | Pass |
| NVNT | n40 MIMO | 2422 | Sum  | -13.58 | 0 | -13.58 | 8 | Pass |
| NVNT | n40 MIMO | 2437 | Ant1 | -16.02 | 0 | -16.02 | 8 | Pass |
| NVNT | n40 MIMO | 2437 | Ant2 | -15.85 | 0 | -15.85 | 8 | Pass |
| NVNT | n40 MIMO | 2437 | Sum  | -12.92 | 0 | -12.92 | 8 | Pass |
| NVNT | n40 MIMO | 2452 | Ant1 | -16.38 | 0 | -16.38 | 8 | Pass |
| NVNT | n40 MIMO | 2452 | Ant2 | -15.34 | 0 | -15.34 | 8 | Pass |
| NVNT | n40 MIMO | 2452 | Sum  | -12.82 | 0 | -12.82 | 8 | Pass |

## Test Graphs

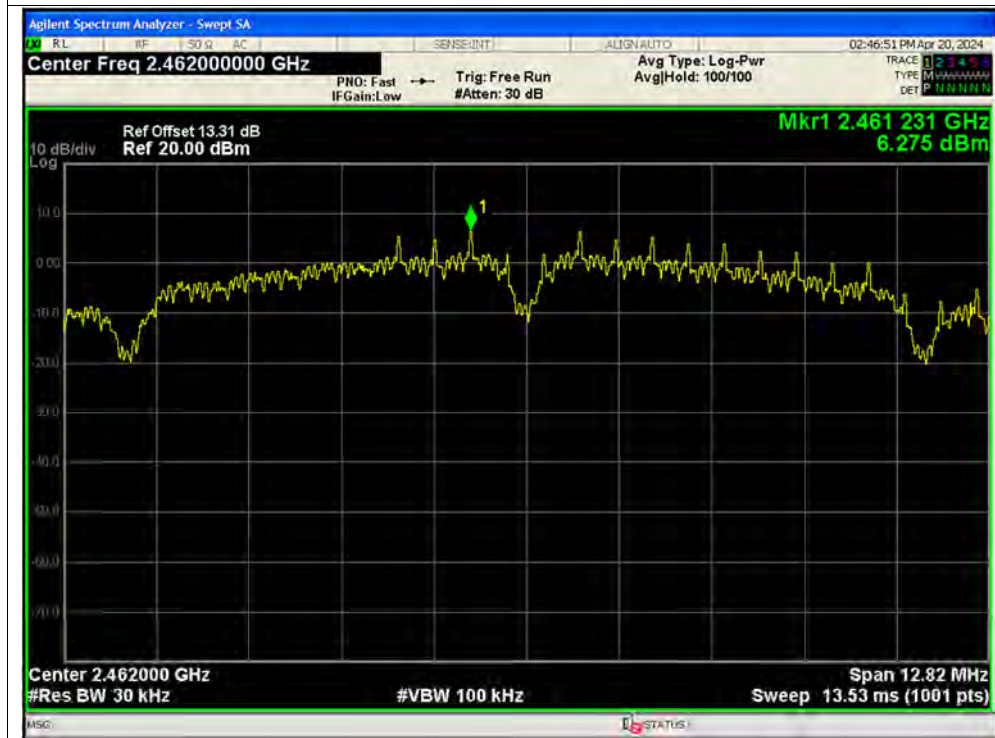
## PSD NVNT b 2412MHz Ant1 SISO



## 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

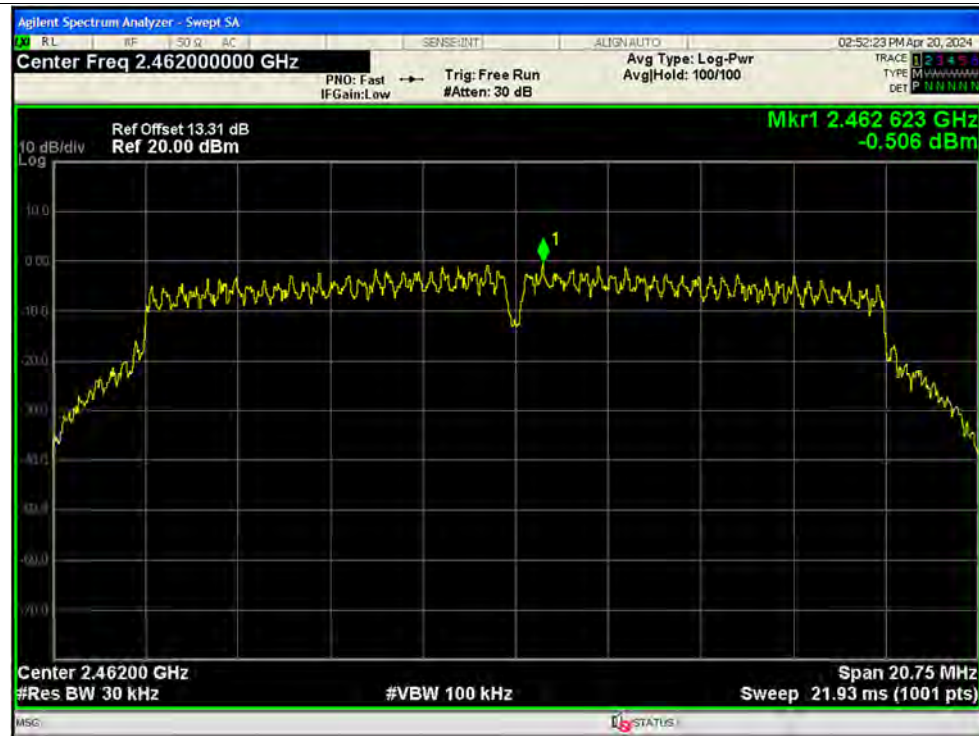


## PSD NVNT g 2437MHz Ant1 SISO





## PSD NVNT g 2462MHz Ant1 SISO



## PSD NVNT g 2412MHz Ant2 SISO

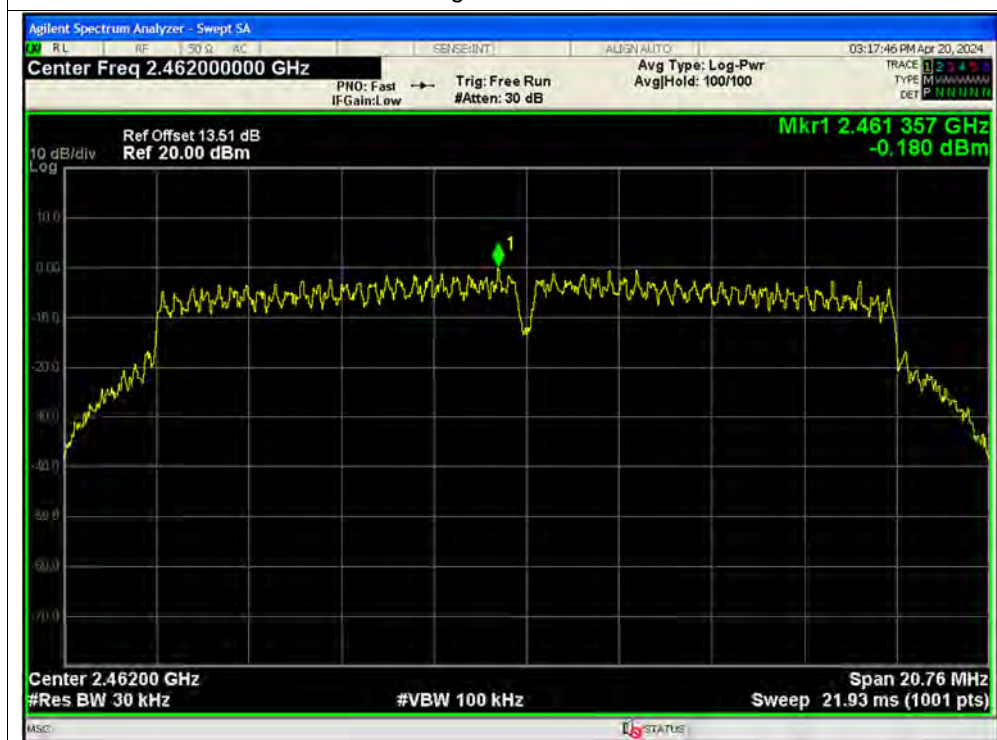




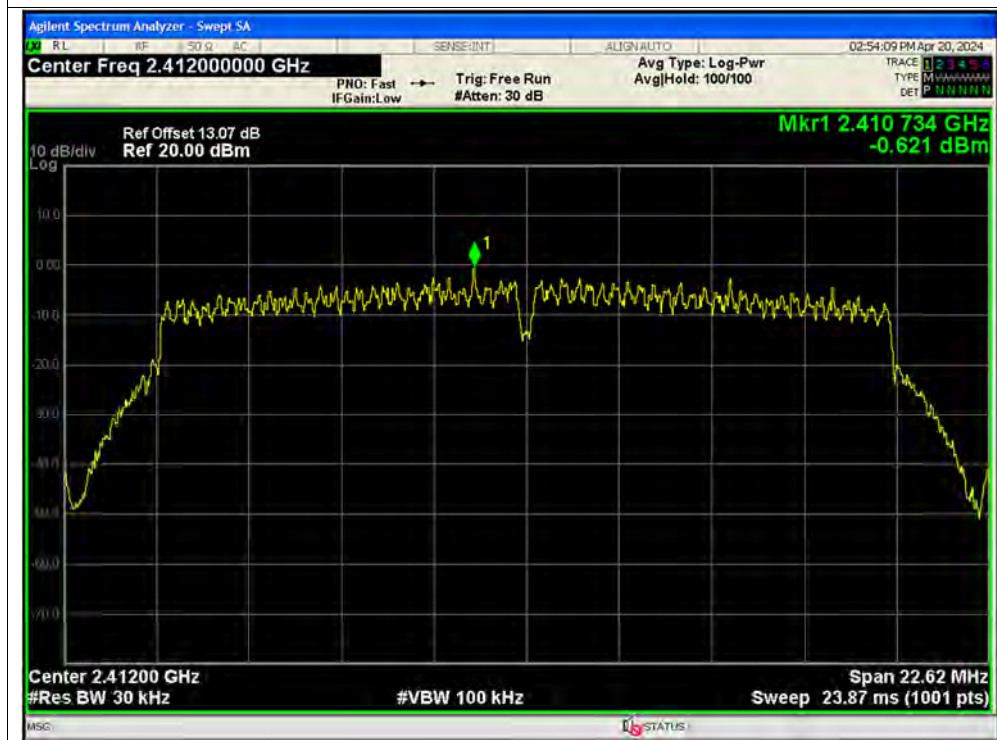
## PSD NVNT g 2437MHz Ant2 SISO



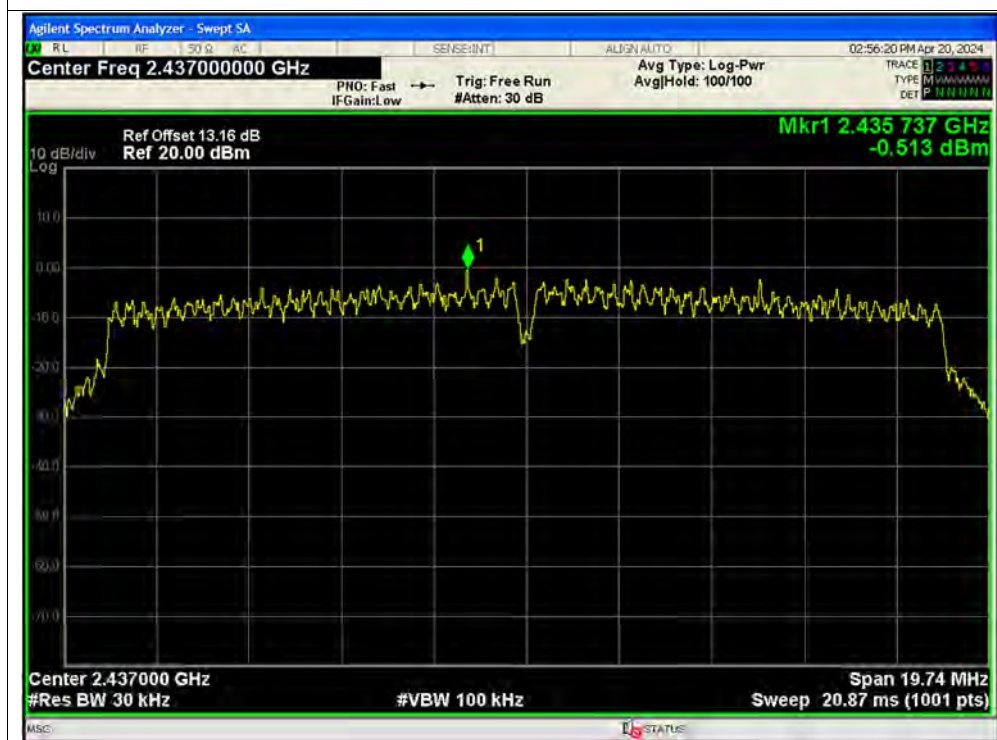
## PSD NVNT g 2462MHz Ant2 SISO



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



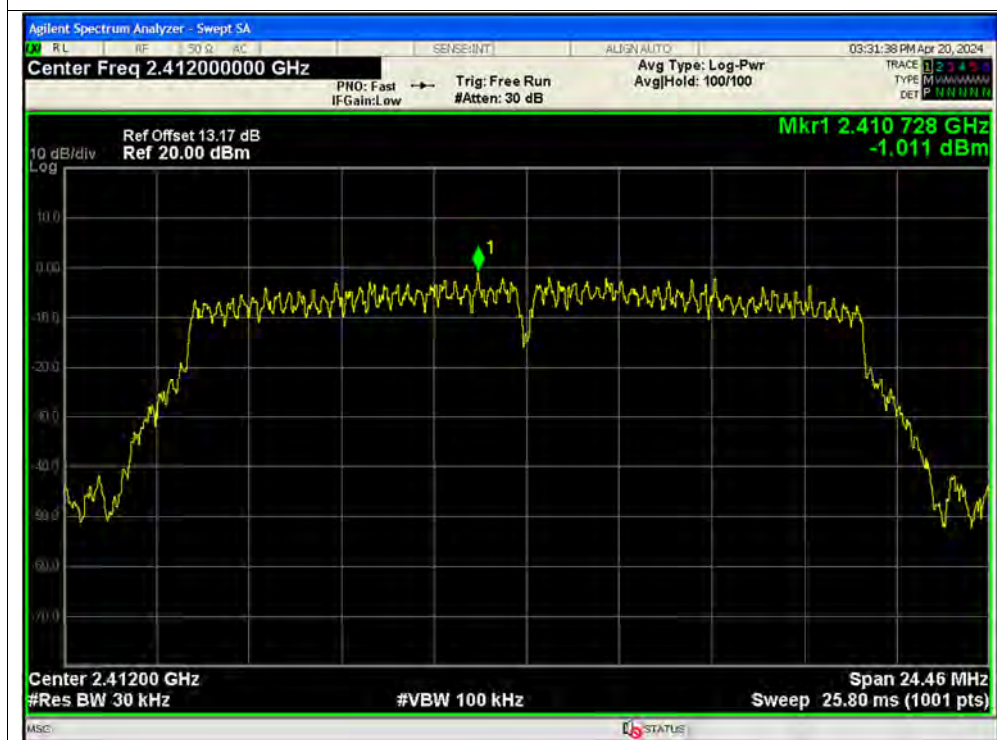
PSD NVNT n20 2462MHz Ant2 SISO



PSD NVNT n20 2412MHz Ant1 MIMO



PSD NVNT n20 2412MHz Ant2 MIMO





## PSD NVNT n20 2437MHz Ant1 MIMO

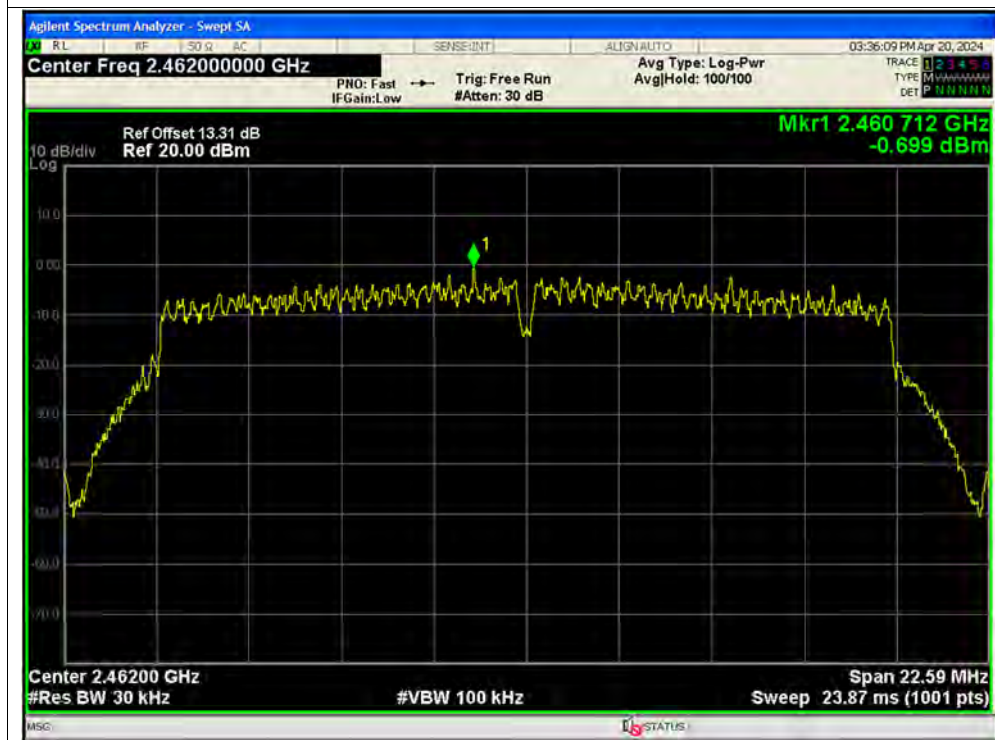


## PSD NVNT n20 2437MHz Ant2 MIMO





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



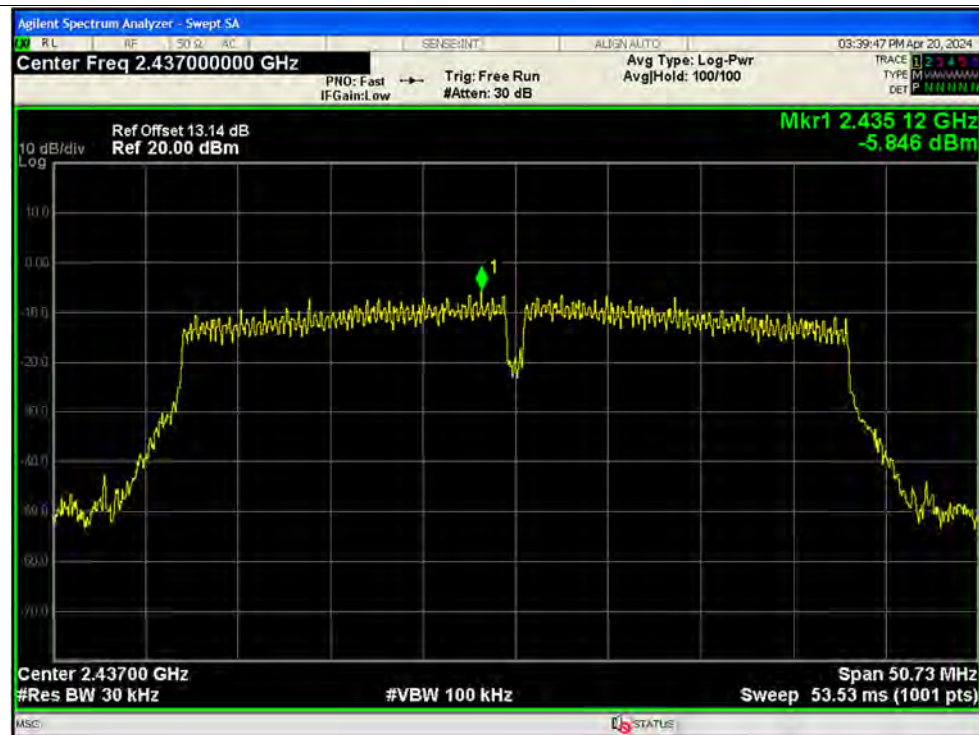
PSD NVNT n40 2422MHz Ant2 MIMO



## PSD NVNT n40 2437MHz Ant1 MIMO



## PSD NVNT n40 2437MHz Ant2 MIMO



PSD NVNT n40 2452MHz Ant1 MIMO



PSD NVNT n40 2452MHz Ant2 MIMO





### 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 + PC + PC Adapter +WIFI TX

Test voltage: AC 120V/60Hz

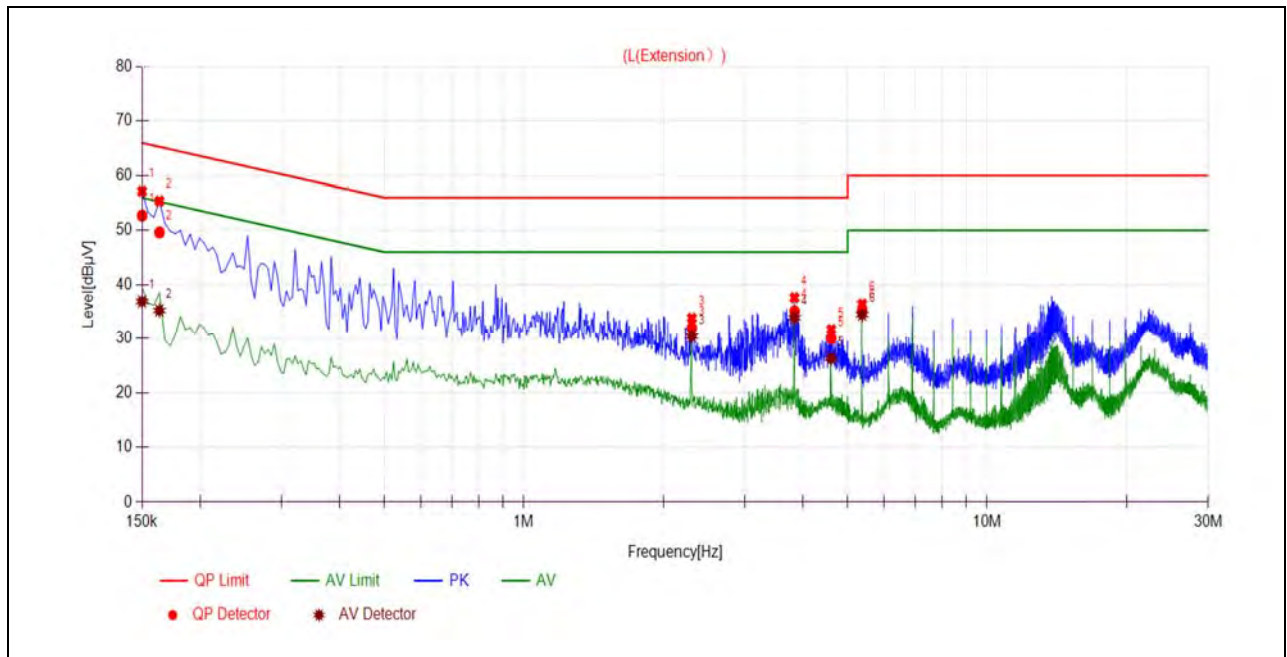
The measurement results are obtained as below:

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

$U_R$ : Receiver Reading

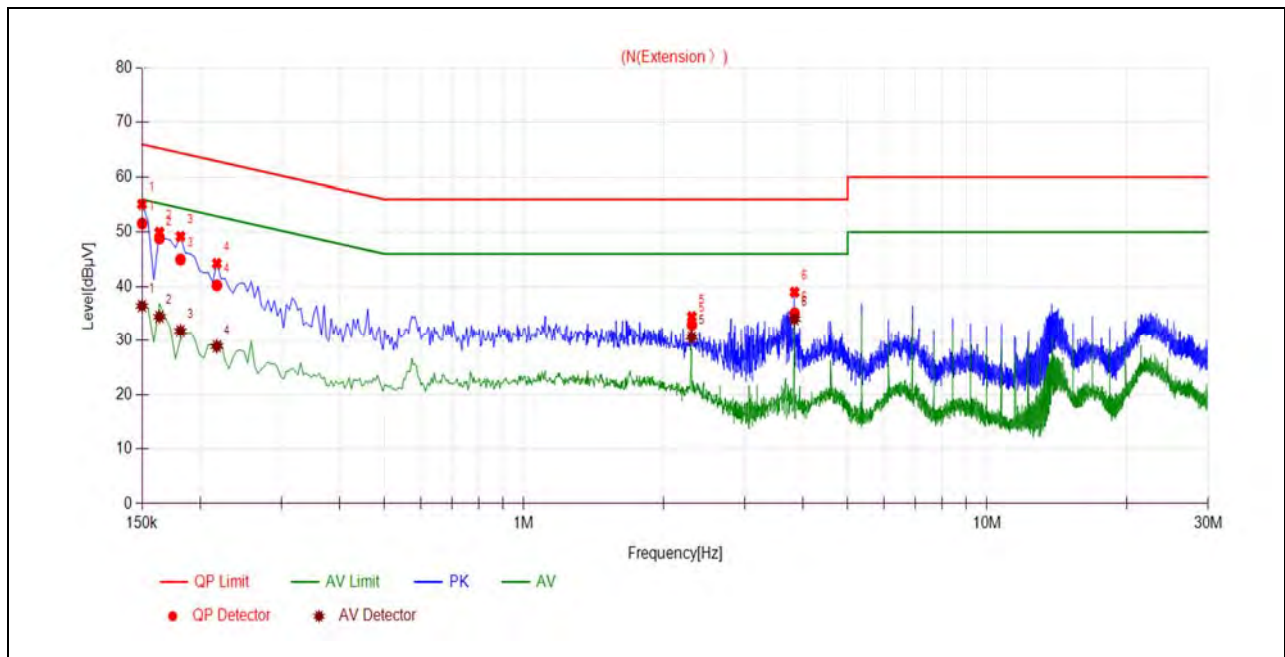
$A_{\text{Factor}}$ : Voltage division factor of LISN

## B. Test Plot:



(L Phase)

| No. | Fre.<br>(MHz) | Emission Level (dBμV) |         | Limit (dBμV) |         | Power-line | Verdict |
|-----|---------------|-----------------------|---------|--------------|---------|------------|---------|
|     |               | Quai-peak             | Average | Quai-peak    | Average |            |         |
| 1   | 0.1500        | 52.72                 | 36.91   | 66.00        | 56.00   | Line       | PASS    |
| 2   | 0.1635        | 49.64                 | 35.25   | 65.29        | 55.29   |            | PASS    |
| 3   | 2.3053        | 32.00                 | 30.39   | 56.00        | 46.00   |            | PASS    |
| 4   | 3.8400        | 35.11                 | 33.89   | 56.00        | 46.00   |            | PASS    |
| 5   | 4.6095        | 30.00                 | 26.28   | 56.00        | 46.00   |            | PASS    |
| 6   | 5.3742        | 35.19                 | 34.47   | 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   | 0.1500        | 51.58                 | 36.45   | 66.00        | 56.00   | Neutral    | PASS    |
| 2   | 0.1635        | 48.86                 | 34.45   | 65.28        | 55.28   |            | PASS    |
| 3   | 0.1815        | 44.97                 | 31.80   | 64.42        | 54.42   |            | PASS    |
| 4   | 0.2175        | 40.24                 | 28.90   | 62.91        | 52.91   |            | PASS    |
| 5   | 2.3055        | 32.97                 | 30.64   | 56.00        | 46.00   |            | PASS    |
| 6   | 3.8403        | 35.08                 | 34.02   | 56.00        | 46.00   |            | 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

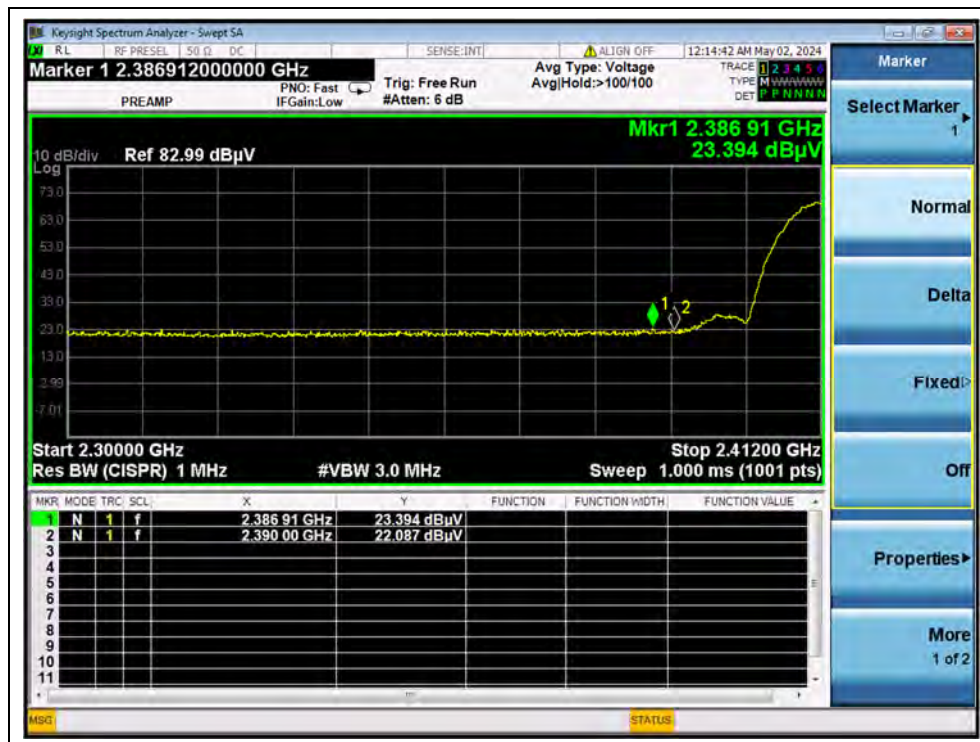
$G_{\text{preamp}}$ : Preamplifier Gain

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

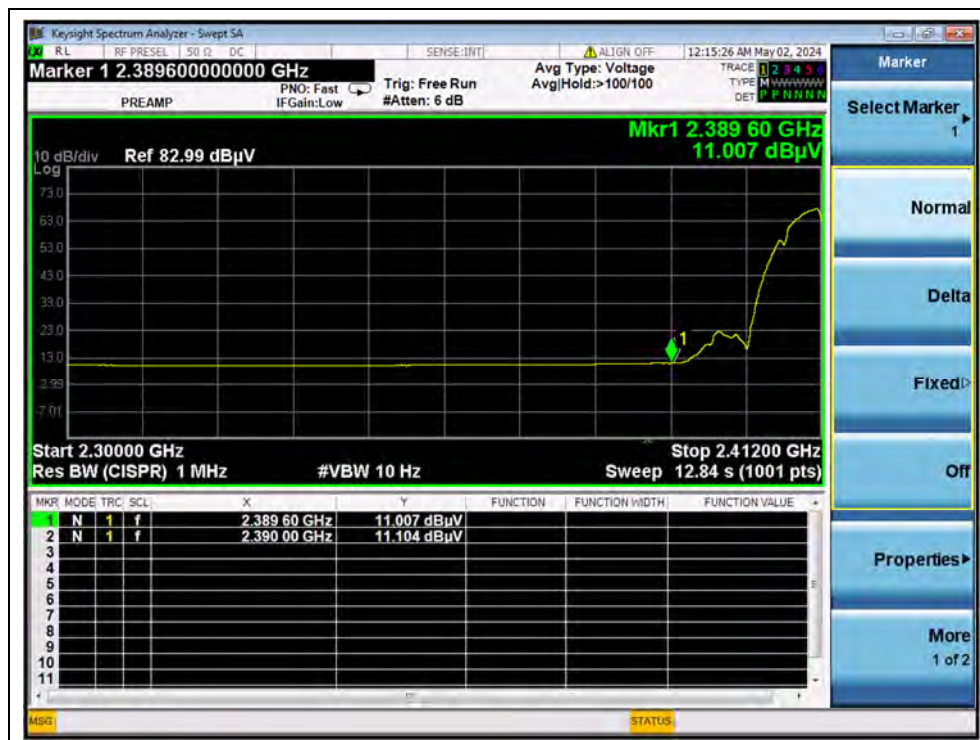
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.

#### 802.11b Mode

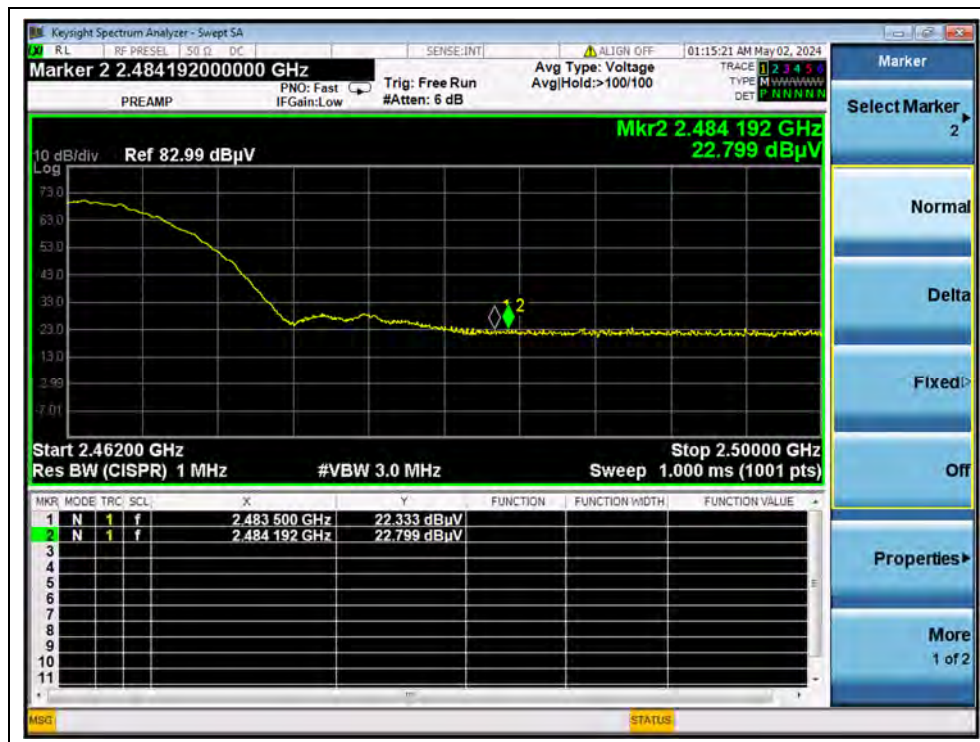
| Channel | Frequency<br>(MHz) | Detector | Receiver<br>Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{\text{Factor}}$<br>(dB@3m) | Max.<br>Emission<br>E<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|--------------------|----------|----------------------------------------------|---------------|--------------------------------|-----------------------------------------|-------------------------|---------|
|         |                    | PK/ AV   |                                              |               |                                |                                         |                         |         |
| 1       | 2386.91            | PK       | 23.39                                        | 6.74          | 27.20                          | 57.33                                   | 74                      | PASS    |
| 1       | 2390.00            | AV       | 11.10                                        | 6.74          | 27.20                          | 45.04                                   | 54                      | PASS    |
| 11      | 2484.19            | PK       | 22.80                                        | 6.74          | 27.20                          | 56.74                                   | 74                      | PASS    |
| 11      | 2483.50            | AV       | 11.22                                        | 6.74          | 27.20                          | 45.16                                   | 54                      | PASS    |



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)

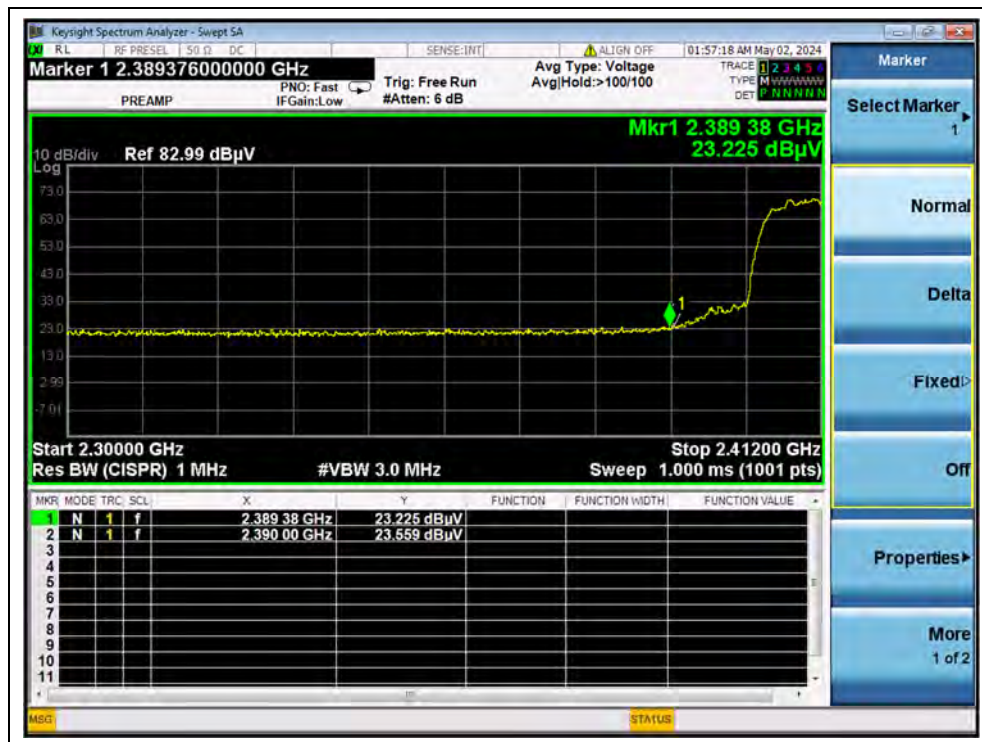


(AVERAGE, Channel 11, 802.11b)

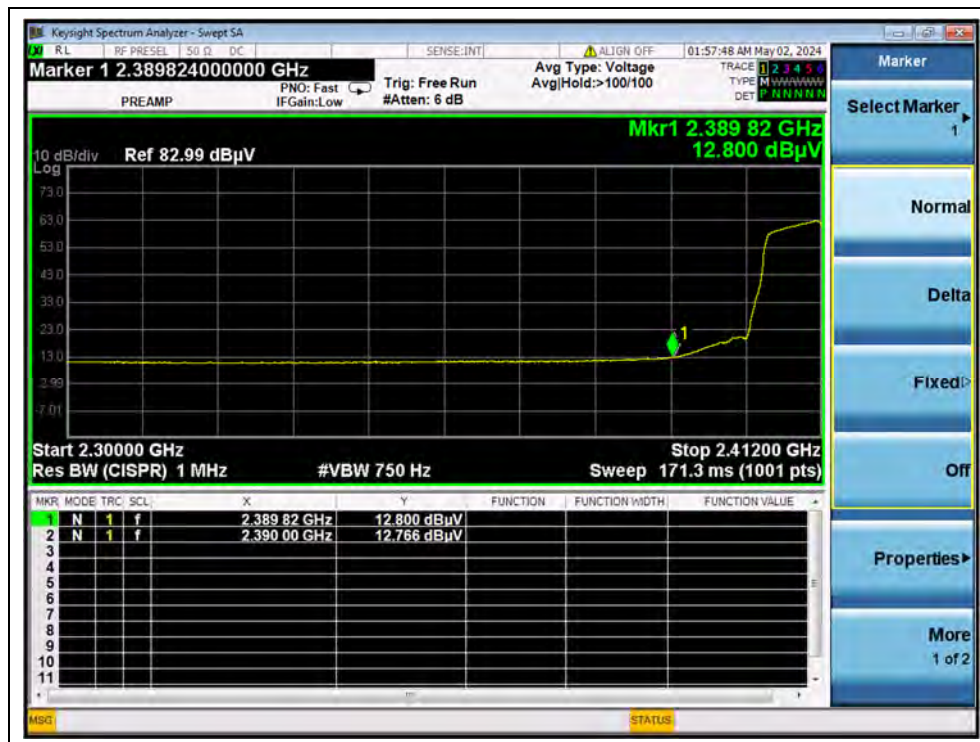


802.11g Mode

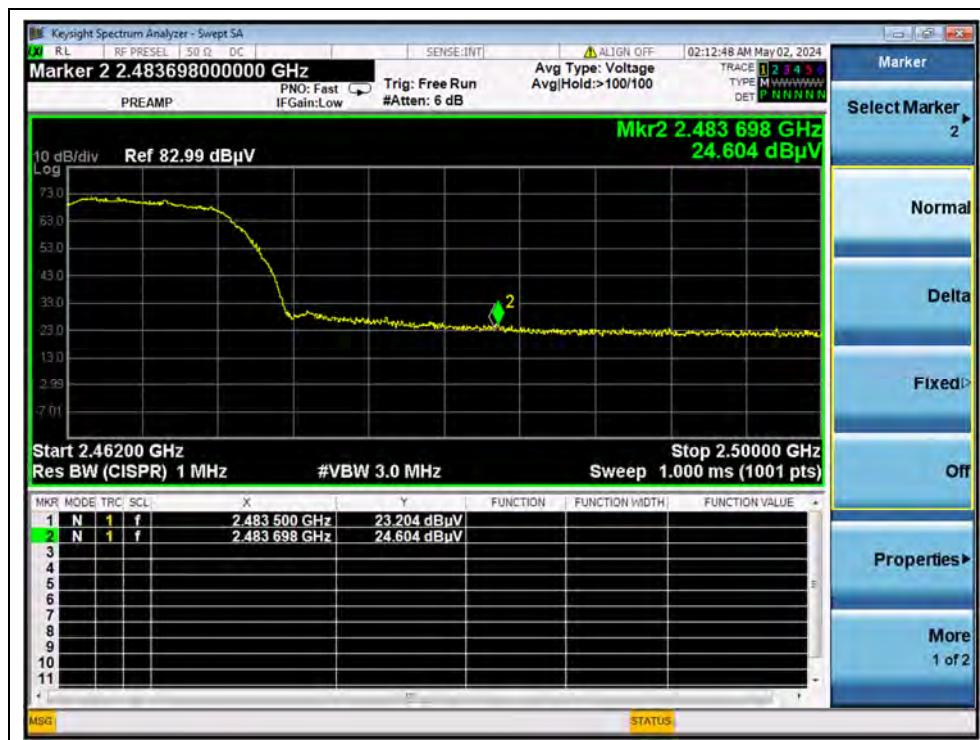
| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 1       | 2390.00         | PK       | 23.56                                     | 6.74          | 27.20                   | 57.50                                  | 74                      | PASS    |
| 1       | 2389.82         | AV       | 12.80                                     | 6.74          | 27.20                   | 46.74                                  | 54                      | PASS    |
| 11      | 2483.70         | PK       | 24.60                                     | 6.74          | 27.20                   | 58.54                                  | 74                      | PASS    |
| 11      | 2483.74         | AV       | 13.35                                     | 6.74          | 27.20                   | 47.29                                  | 54                      | PASS    |



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



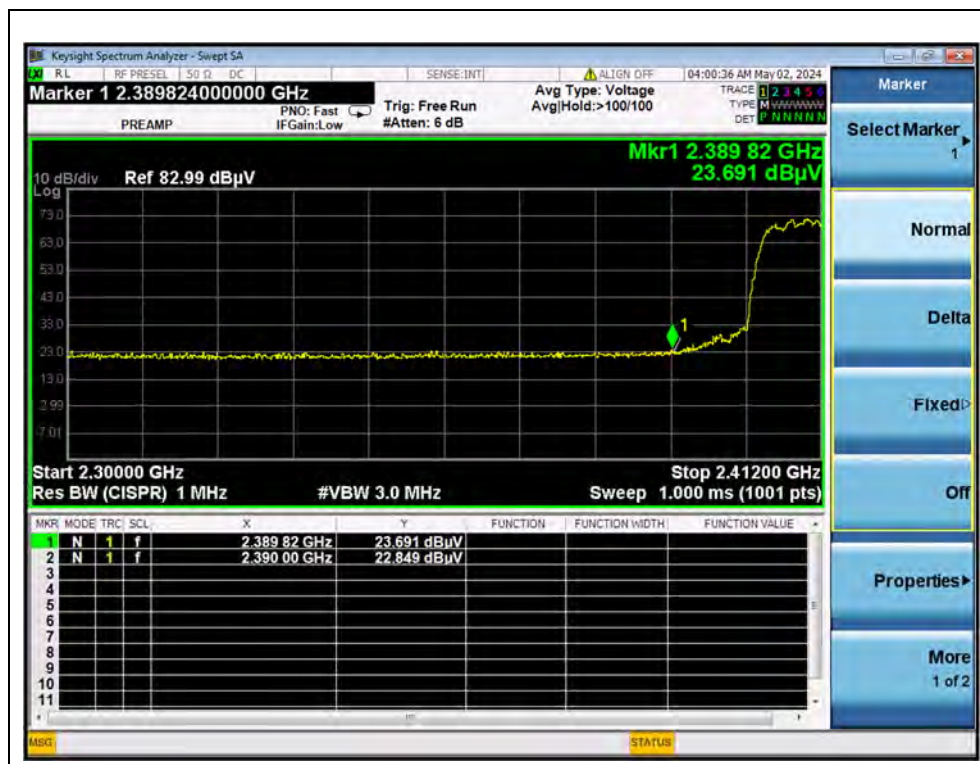
(PEAK, Channel 11, 802.11g)



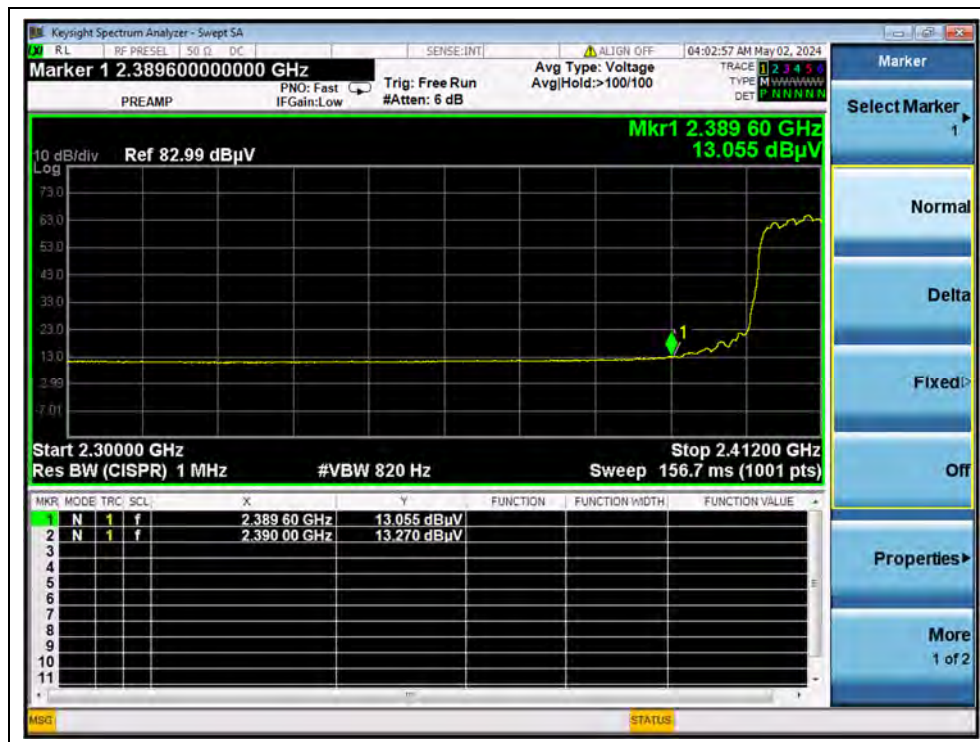
(AVERAGE, Channel 11, 802.11g)

**802.11n (HT20) Mode**

| Channel | Frequency<br>(MHz) | Detector | Receiver<br>Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max.<br>Emission<br>E<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|--------------------|----------|----------------------------------------------|---------------|-------------------------|-----------------------------------------|-------------------------|---------|
|         |                    | PK/ AV   |                                              |               |                         |                                         |                         |         |
| 1       | 2389.82            | PK       | 23.69                                        | 6.74          | 27.20                   | 57.63                                   | 74                      | PASS    |
| 1       | 2390.00            | AV       | 13.27                                        | 6.74          | 27.20                   | 47.21                                   | 54                      | PASS    |
| 11      | 2485.67            | PK       | 24.95                                        | 6.74          | 27.20                   | 58.89                                   | 74                      | PASS    |
| 11      | 2485.07            | AV       | 13.46                                        | 6.74          | 27.20                   | 47.40                                   | 54                      | PASS    |



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



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



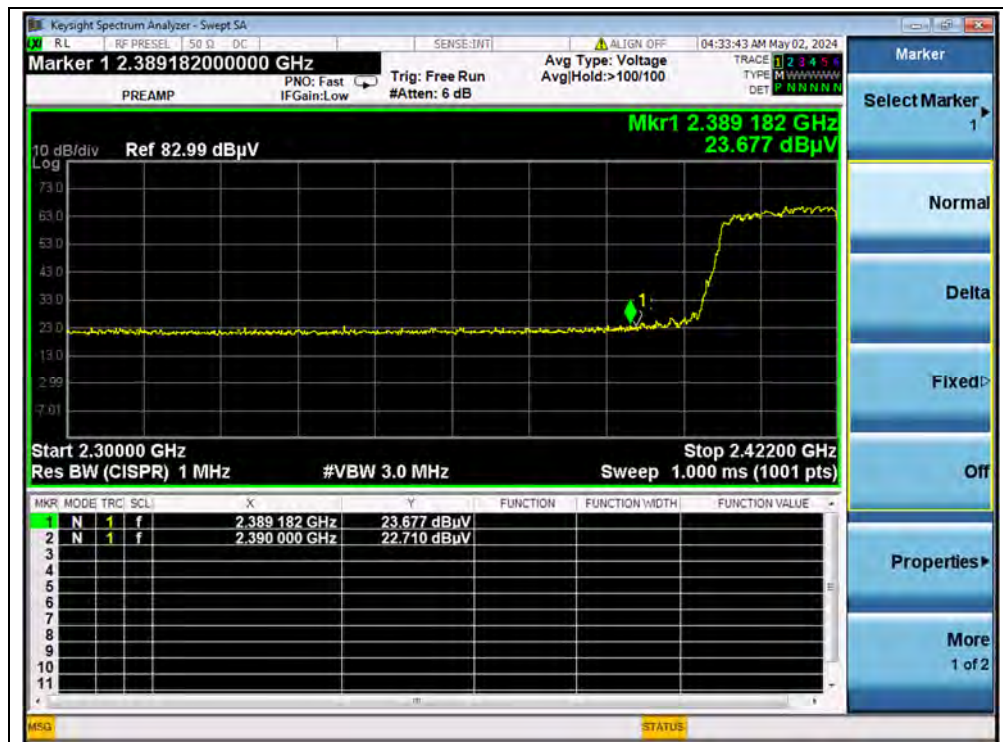
(PEAK, Channel 11, 802.11n (HT20))



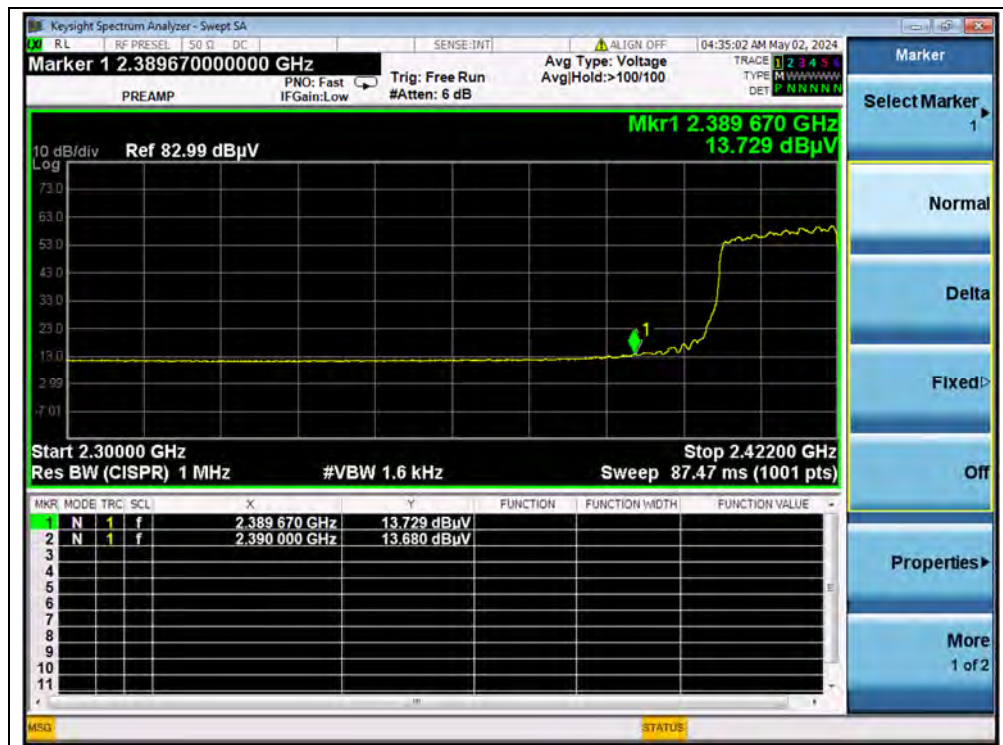
(AVERAGE, Channel 11, 802.11n (HT20))

**802.11n (HT40) Mode**

| Channel | Frequency<br>(MHz) | Detector | Receiver<br>Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max.<br>Emission<br>E<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|--------------------|----------|----------------------------------------------|---------------|-------------------------|-----------------------------------------|-------------------------|---------|
|         |                    | PK/ AV   |                                              |               |                         |                                         |                         |         |
| 3       | 2389.18            | PK       | 23.68                                        | 6.74          | 27.20                   | 57.62                                   | 74                      | PASS    |
| 3       | 2389.67            | AV       | 13.73                                        | 6.74          | 27.20                   | 47.67                                   | 54                      | PASS    |
| 9       | 2486.66            | PK       | 23.82                                        | 6.74          | 27.20                   | 57.76                                   | 74                      | PASS    |
| 9       | 2483.87            | AV       | 13.66                                        | 6.74          | 27.20                   | 47.60                                   | 54                      | PASS    |



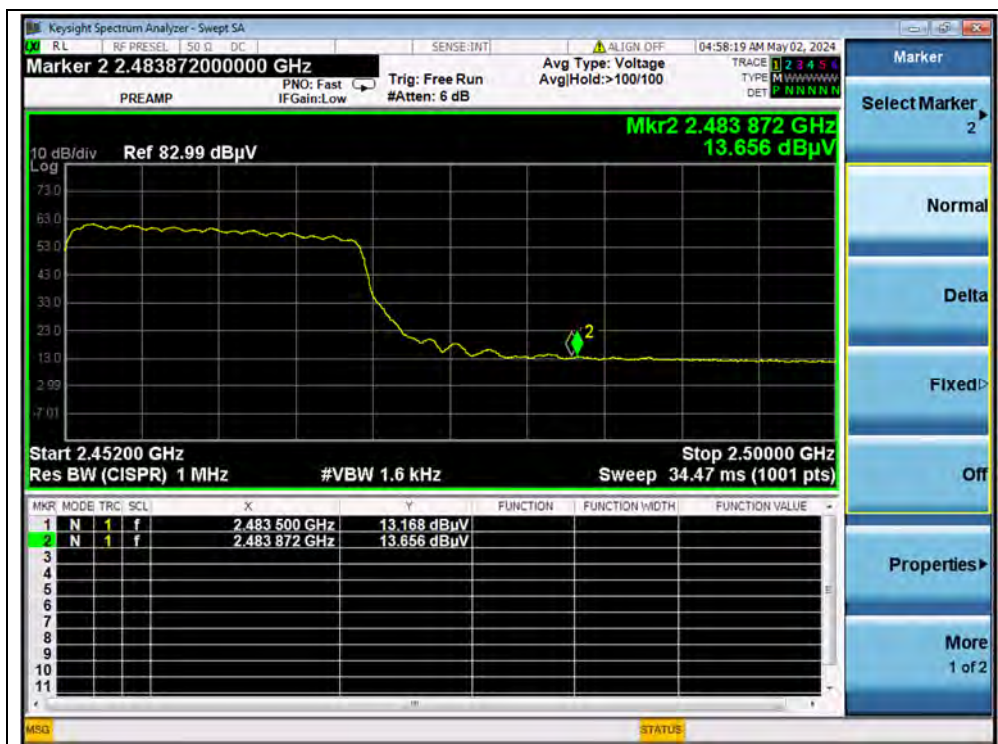
(PEAK, Channel 3, 802.11n (HT40))



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



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



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



#### 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.

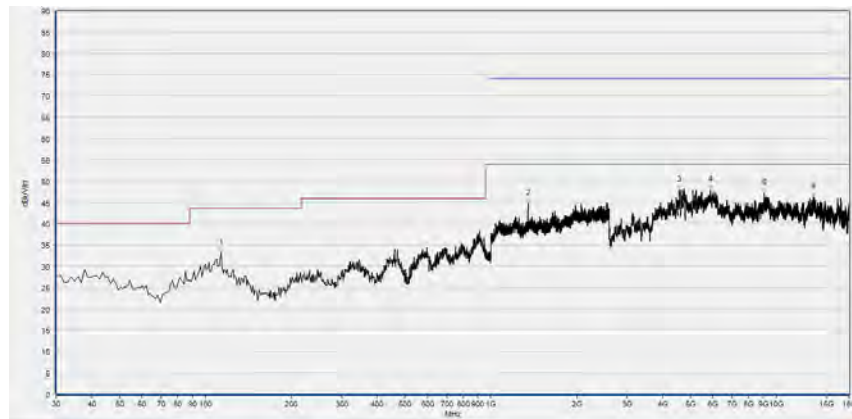
Field strength of fundamental:

| Frequency<br>(MHz) | Reading_Peak<br>(dB $\mu$ V/m) | Antenna<br>Factor (dB) | Path Loss<br>(dB) | Final_Peak<br>(dB $\mu$ V/m) | Antenna<br>Polarity |
|--------------------|--------------------------------|------------------------|-------------------|------------------------------|---------------------|
| 2425.60            | 67.69                          | 27.20                  | 6.74              | 101.63                       | Horizontal          |

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

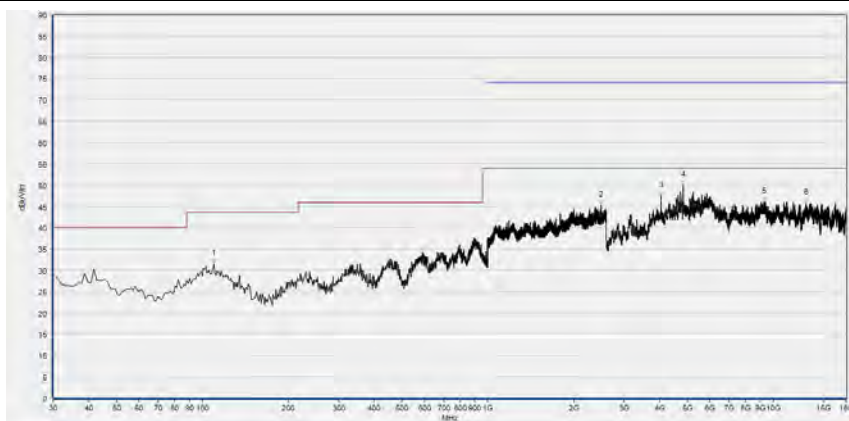
**802.11b Mode**

## 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 |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 113.420    | 33.22          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1349.867   | 44.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4574.280   | 47.99          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5883.280   | 47.95          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9089.560   | 47.11          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 13463.160  | 46.30          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

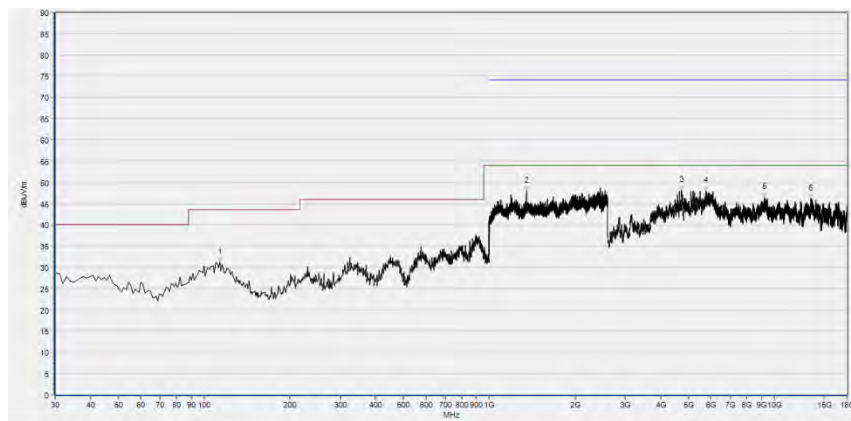


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 109.540    | 31.50          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2498.667   | 45.33          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4050.680   | 47.44          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4823.760   | 49.95          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 9277.440   | 46.05          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 13062.760  | 45.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

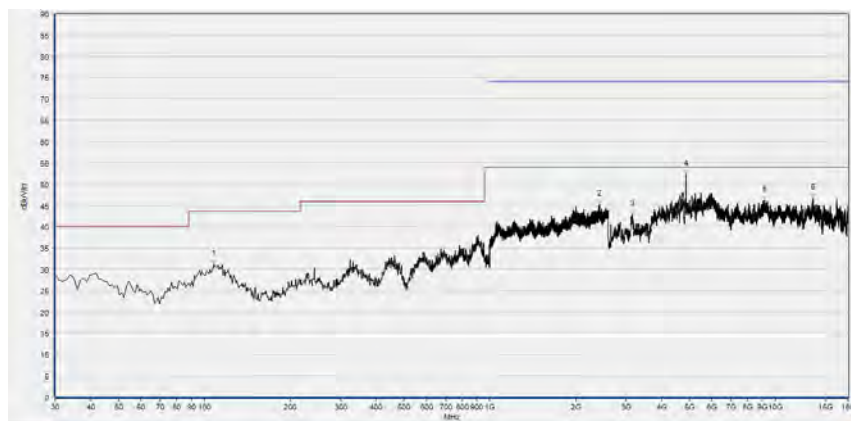


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 113.420    | 31.25       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1349.867   | 47.95       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4737.520   | 48.06       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5735.440   | 47.90       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9246.640   | 46.42       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 13444.680  | 46.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

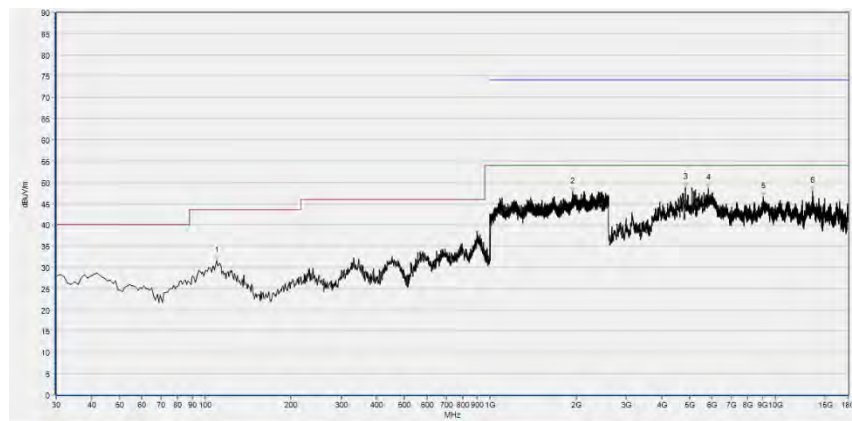


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 107.600    | 31.16       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2418.133   | 45.29       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 3160.560   | 42.89       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4873.040   | 52.24       | N/A         | 50.72       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9178.880   | 46.18       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 13570.960  | 46.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 11



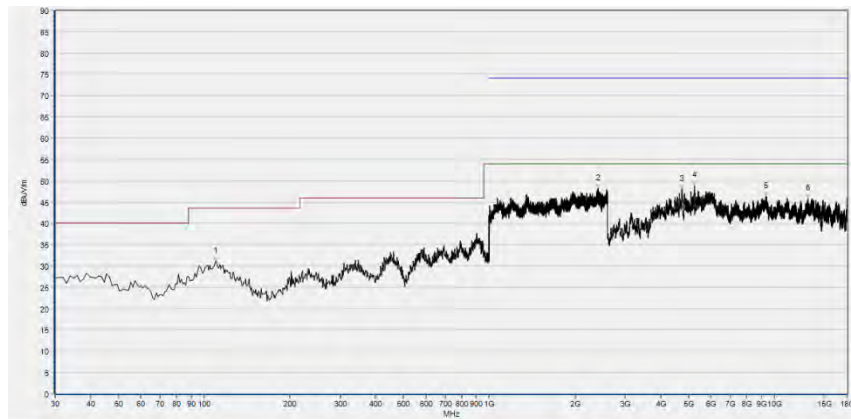
| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 109.540    | 31.56       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1945.067   | 47.80       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4829.920   | 48.77       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5818.600   | 48.59       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9074.160   | 46.54       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 13530.920  | 47.98       | 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 102.750    | 32.48       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2462.400   | 50.11       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2831.000   | 44.98       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4925.400   | 51.56       | N/A         | 50.97       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8427.360   | 46.17       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 13497.040  | 47.22       | 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    | 30.99          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2409.067   | 48.14          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4740.600   | 47.93          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5239.560   | 48.69          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9354.440   | 46.24          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 13112.040  | 45.67          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

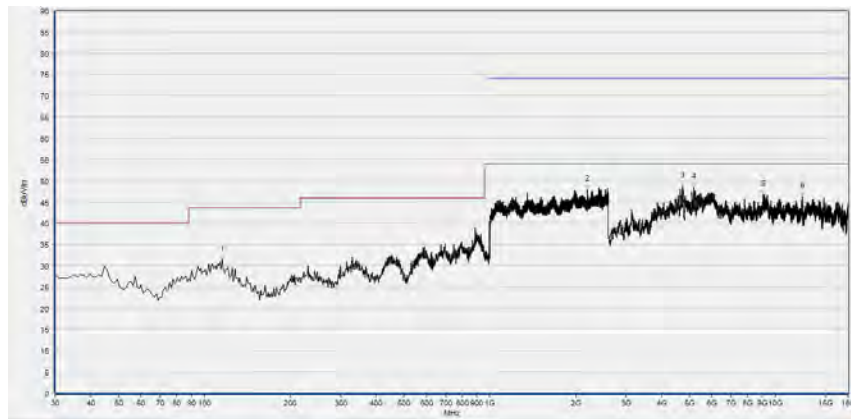


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 110.510    | 30.93          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2573.333   | 45.95          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4648.200   | 48.99          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5991.080   | 48.25          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 9064.920   | 45.94          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 13580.200  | 45.92          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

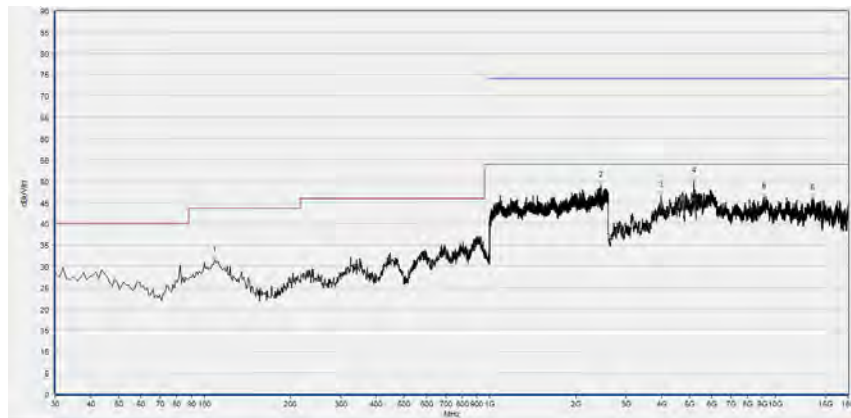


Plot for Channel 6



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 115.360    | 31.29       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2202.133   | 47.91       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4734.440   | 48.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5174.880   | 48.38       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9089.560   | 46.74       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12415.960  | 46.26       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

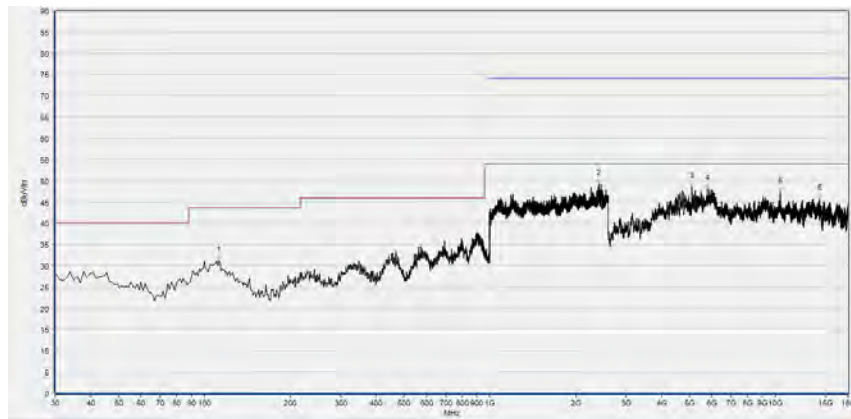


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 108.570    | 31.39       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2449.067   | 48.93       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 3986.000   | 46.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5187.200   | 49.99       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9092.640   | 46.30       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 13481.640  | 45.85       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

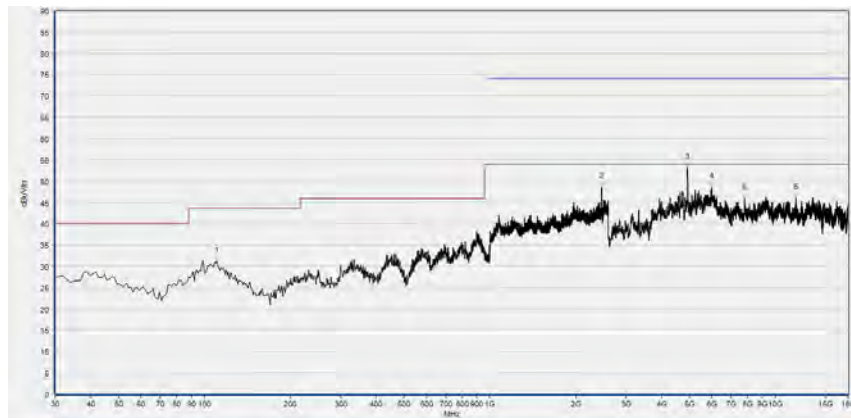


Plot for Channel 11



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 112.450    | 31.11       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2411.733   | 49.23       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5107.120   | 48.52       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5797.040   | 48.16       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10410.880  | 47.38       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14270.120  | 45.72       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

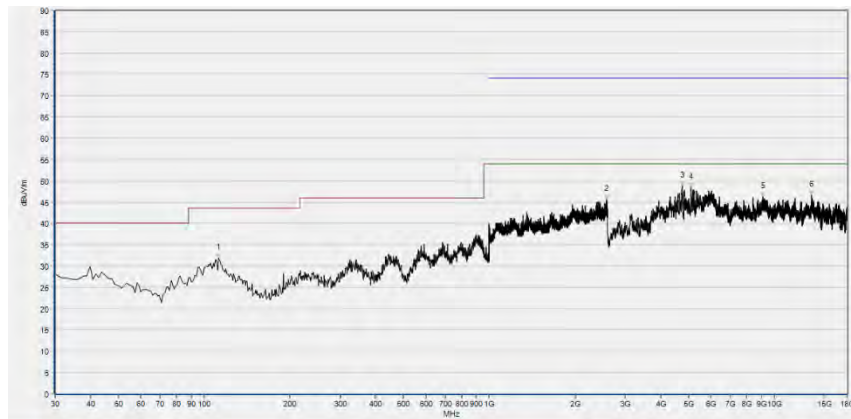


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 110.510    | 31.15       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2464.533   | 48.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4922.320   | 53.16       | N/A         | 42.93       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5972.600   | 48.63       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 7805.200   | 45.88       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 11812.280  | 46.08       | 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 |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 112.450    | 31.81          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2579.200   | 45.65          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4743.680   | 48.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5107.120   | 48.37          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9120.360   | 46.20          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 13530.920  | 46.63          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

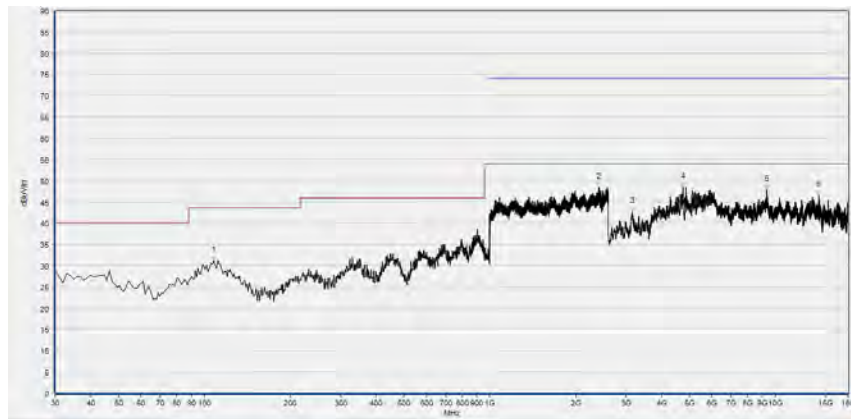


| Fre. (MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 106.630    | 31.53          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2581.867   | 46.64          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 3139.000   | 42.80          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4829.920   | 49.69          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5230.320   | 50.13          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 13487.800  | 45.99          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

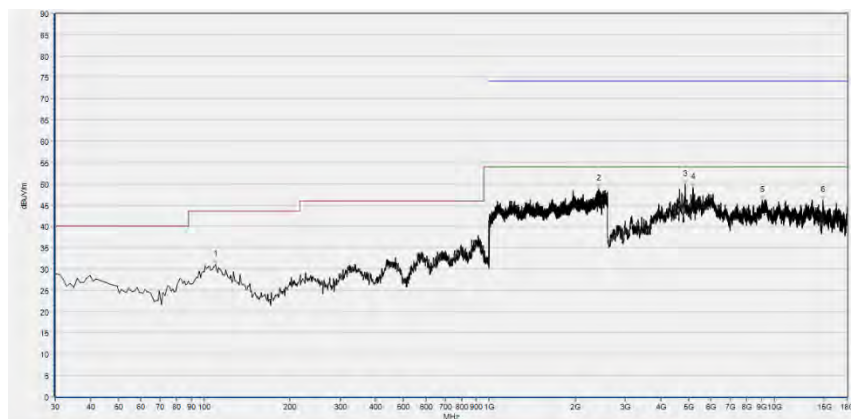


Plot for Channel 6



| 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    | 31.21       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2415.467   | 48.48       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 3151.320   | 42.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4743.680   | 48.41       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9351.360   | 47.92       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14183.880  | 46.51       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

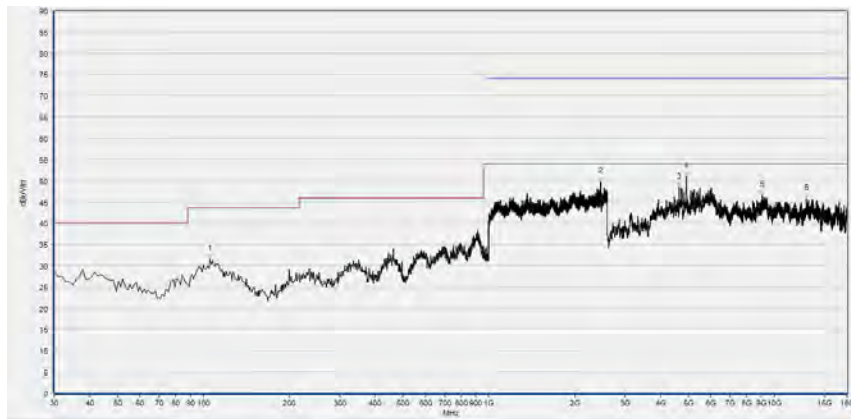


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 109.540    | 31.07       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2417.067   | 48.79       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4876.120   | 49.74       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5174.880   | 49.09       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9071.080   | 46.10       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14781.400  | 46.11       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

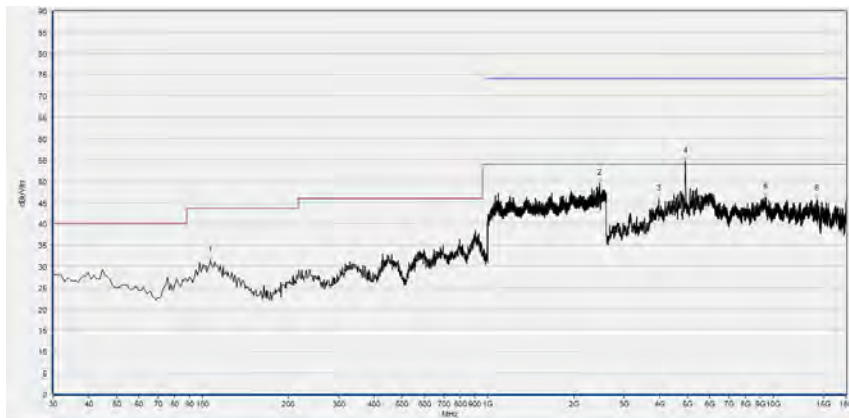


Plot for Channel 11



| 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 105.660    | 31.47       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2464.533   | 49.77       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4648.200   | 48.40       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4925.400   | 50.97       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9086.480   | 46.65       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12988.840  | 45.81       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

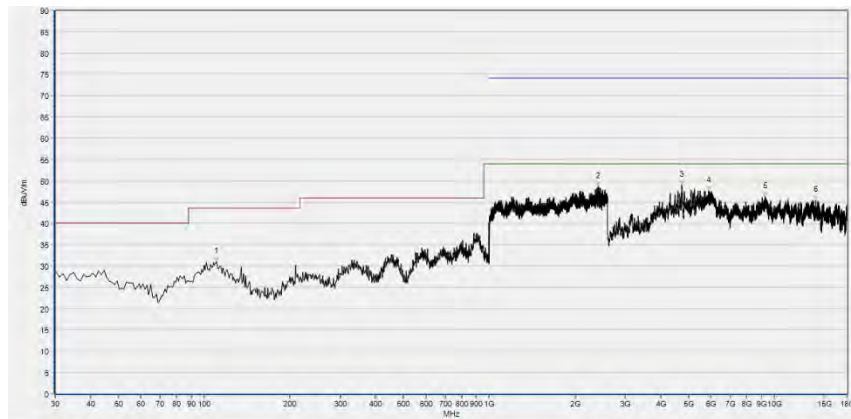


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630    | 31.35       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2464.533   | 49.52       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 3979.840   | 45.79       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4928.480   | 54.65       | N/A         | 41.88       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9376.000   | 46.19       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14190.040  | 45.72       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

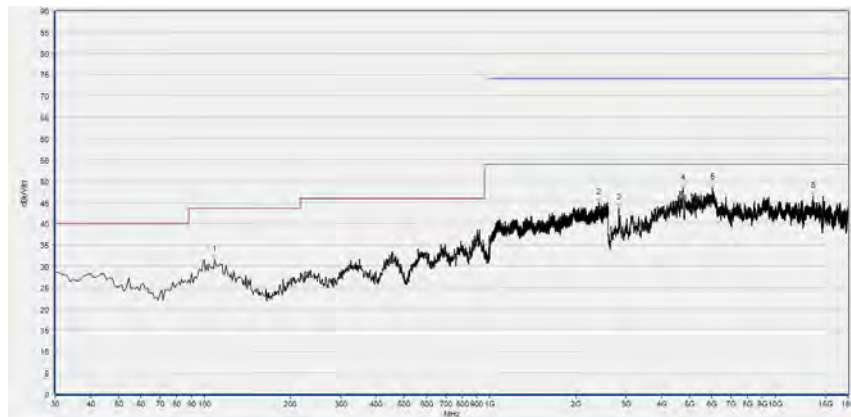
**802.11n (HT40) Mode**

## 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 |
|------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 110.510    | 31.00          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2414.400   | 48.52          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4740.600   | 49.01          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5877.120   | 47.53          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9274.360   | 46.33          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 13943.640  | 45.40          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

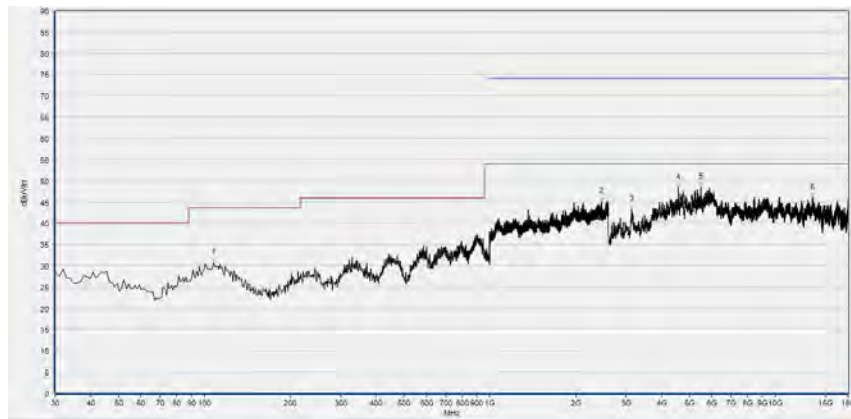
(Antenna Horizontal, 30MHz to 18GHz)



| 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    | 31.59          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2402.133   | 44.89          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 2827.920   | 43.79          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4746.760   | 48.22          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 6034.200   | 48.36          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 13595.600  | 46.42          | 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    | 30.62       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2461.867   | 45.06       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 3132.840   | 43.22       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4577.360   | 48.30       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5476.720   | 48.39       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 13481.640  | 45.86       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

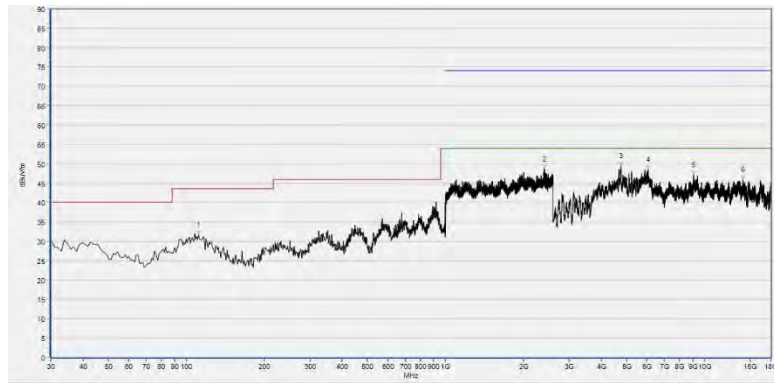


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 113.420    | 32.62       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2571.733   | 45.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 3145.160   | 44.02       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4648.200   | 48.14       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 8418.120   | 46.36       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 13570.960  | 45.18       | 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 111.480    | 31.69       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2411.733   | 48.67       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4746.760   | 49.43       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 6052.680   | 48.36       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 9068.000   | 47.18       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14039.120  | 46.00       | 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 |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 112.450    | 31.12       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2417.067   | 48.86       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 2997.320   | 46.04       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4657.440   | 48.08       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5901.760   | 47.90       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12914.920  | 46.19       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT