

## Appendix D

### RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Tablet Pc

Trade Mark: N/A

Test Model:M803

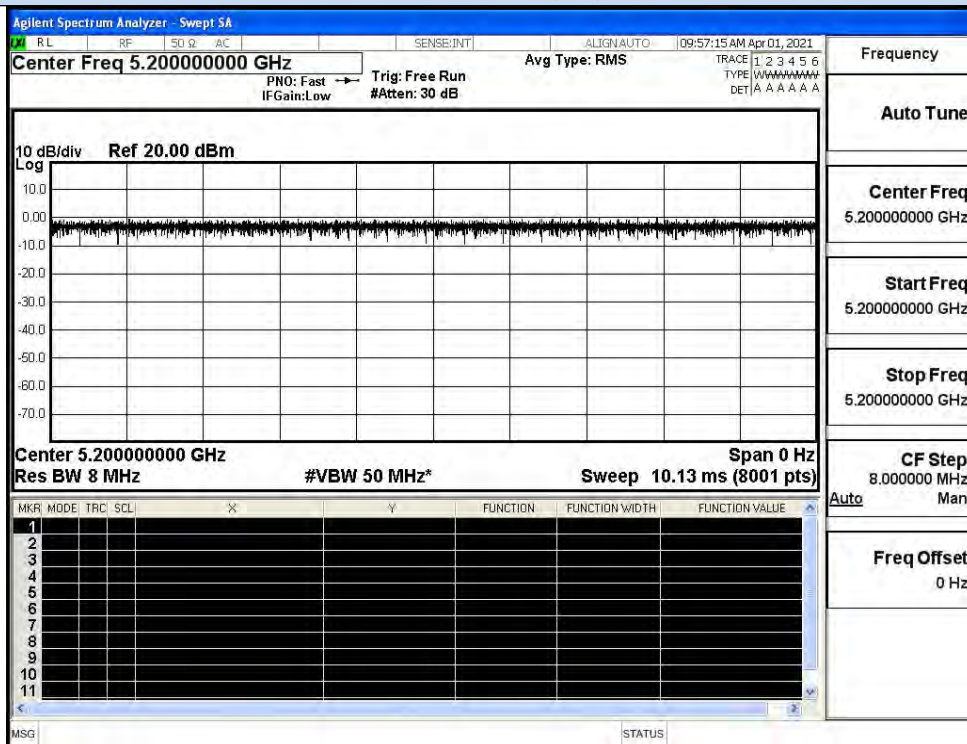
#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25.4 ° C  |
| Relative Humidity: | 53.2%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Carl Fu   |
| Supervised by:     | LI HUAN   |

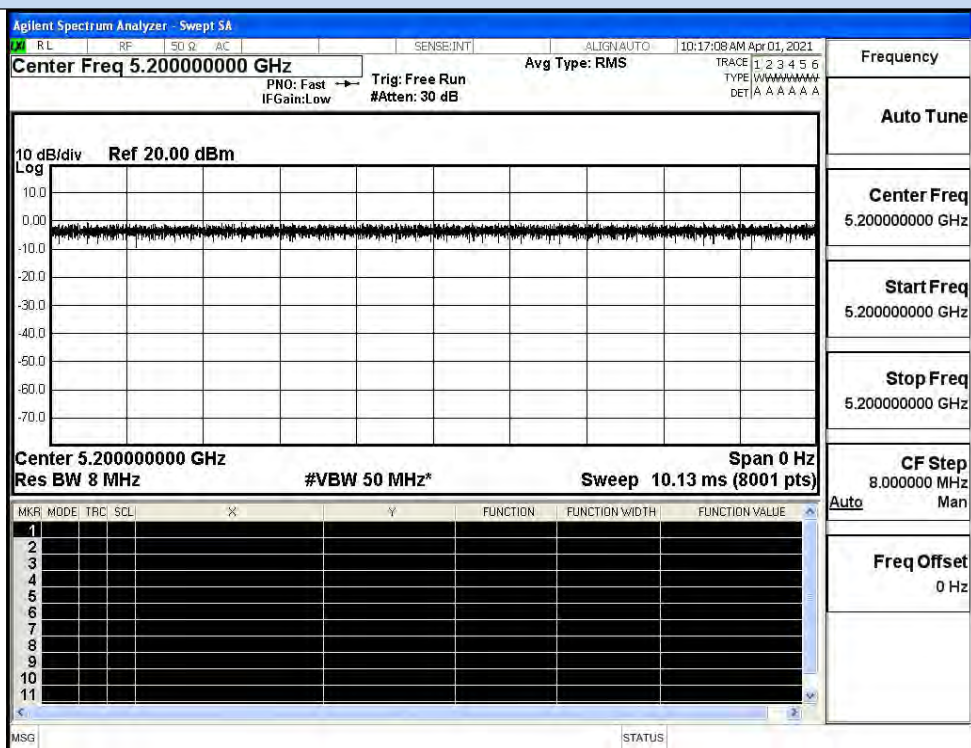
#### D.1 Duty Cycle

| Test Mode   | Test Frequency (MHz) | Duty Cycle (%) | 10log(1/x) Factor (dB) | 1/B Minimum VBW(KHz) |
|-------------|----------------------|----------------|------------------------|----------------------|
| 11A         | 5200                 | 100            | 0.00                   | 0.01                 |
| 11N20 SISO  | 5200                 | 100            | 0.00                   | 0.01                 |
| 11N40 SISO  | 5190                 | 100            | 0.00                   | 0.01                 |
| 11AC20 SISO | 5200                 | 100            | 0.00                   | 0.01                 |
| 11AC40 SISO | 5190                 | 100            | 0.00                   | 0.01                 |
| 11AC80 SISO | 5210                 | 100            | 0.00                   | 0.01                 |

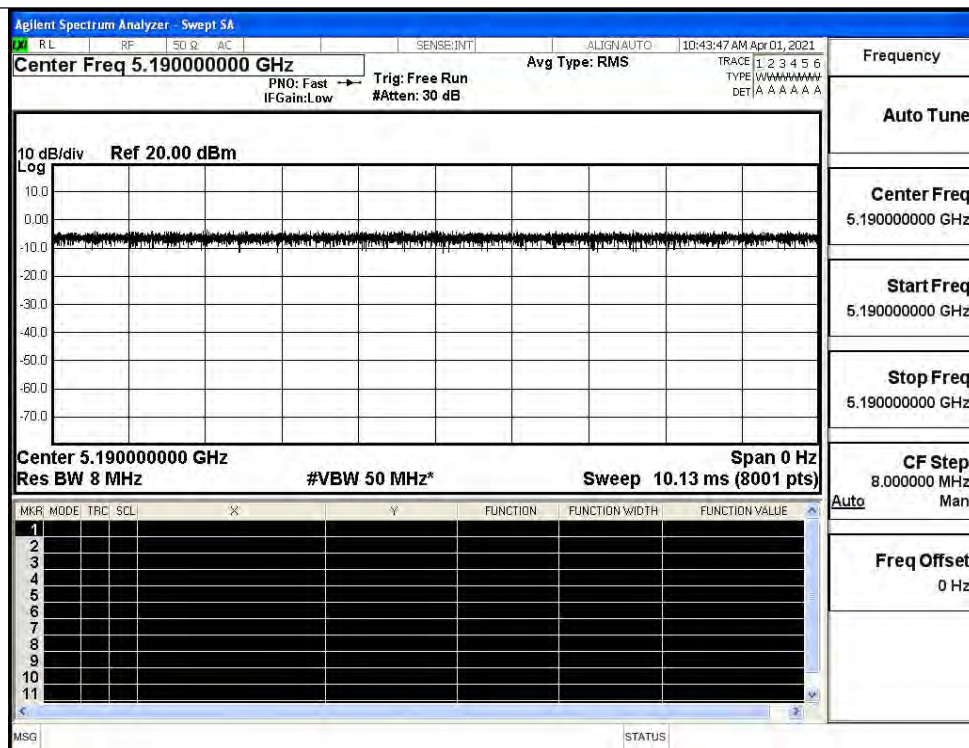
## On Time and Duty Cycle



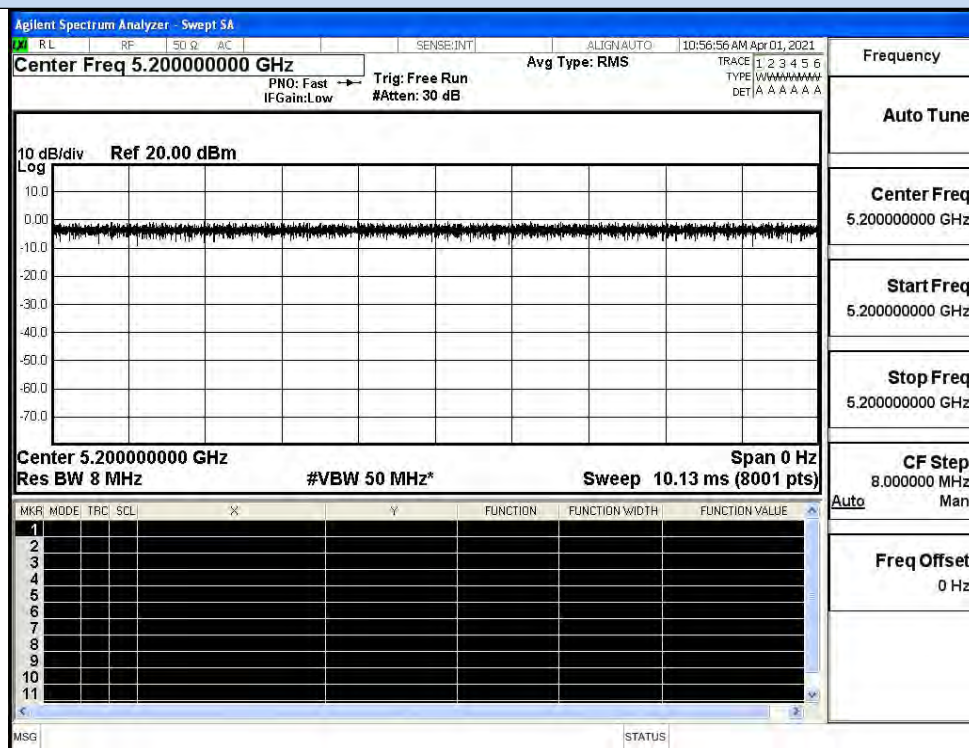
## IEEE 802.11a



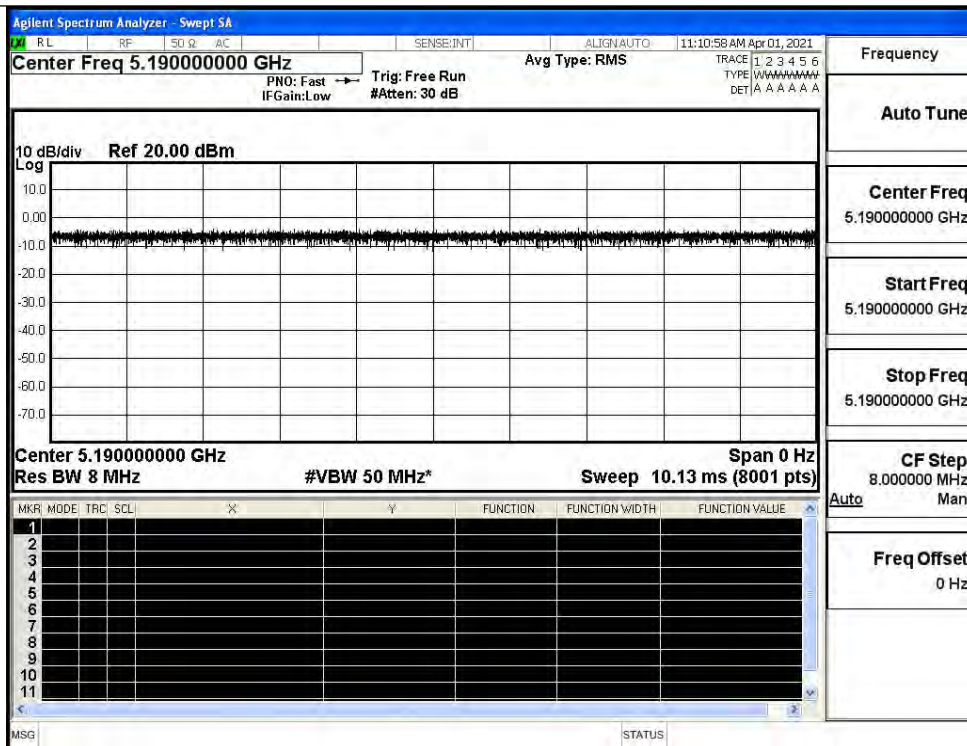
## IEEE 802.11n HT20



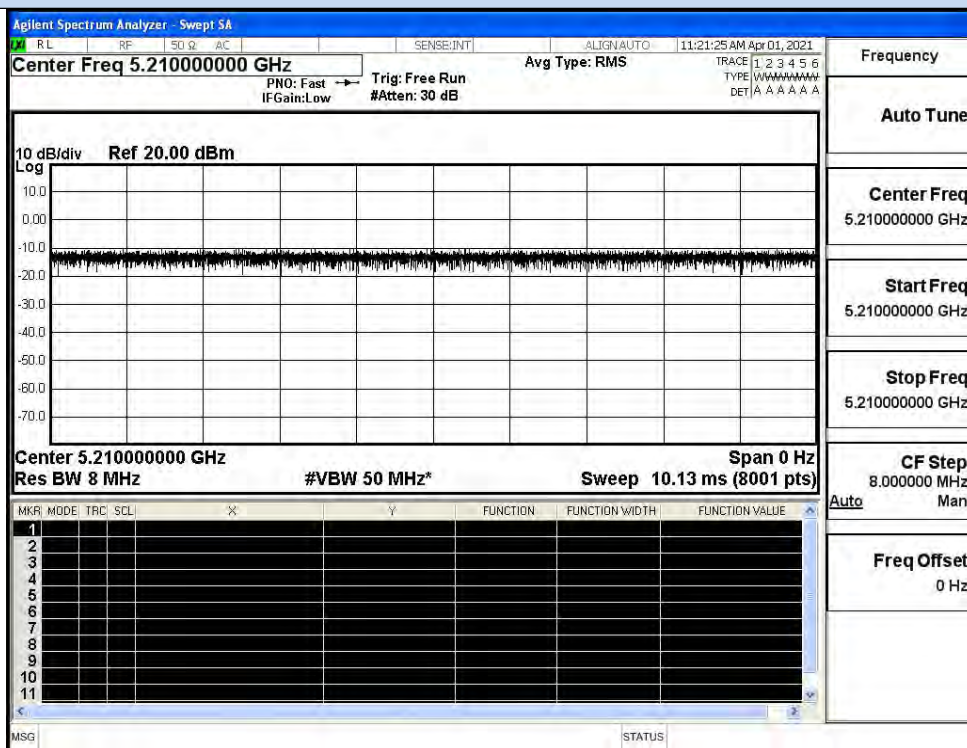
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



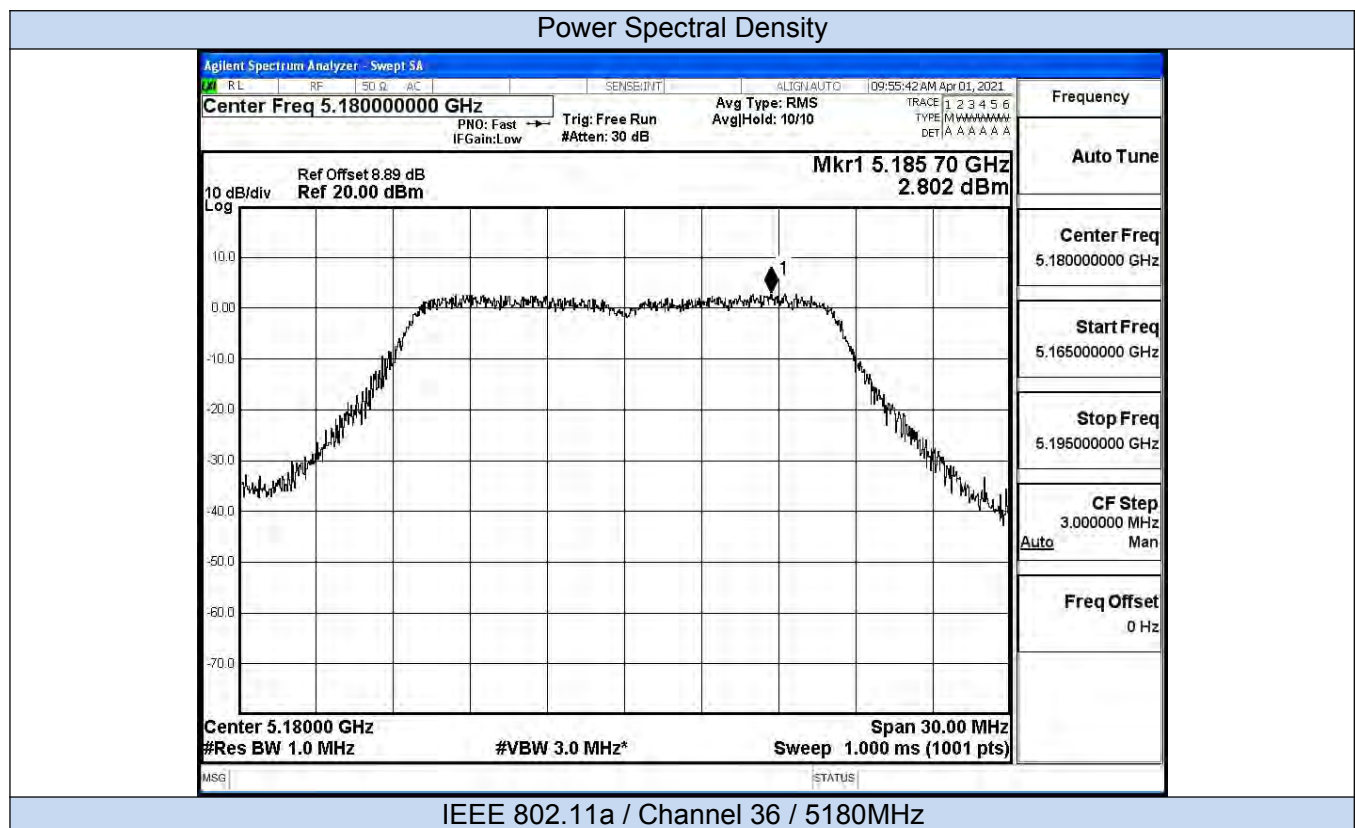
IEEE 802.11AC80

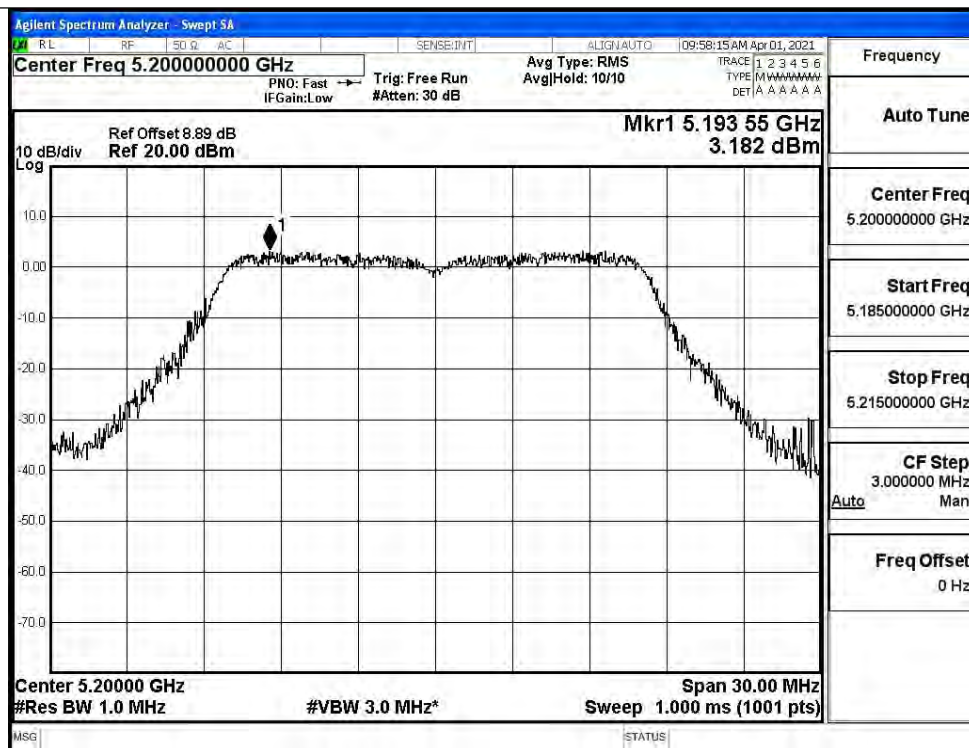
**D.2 Maximum Conduct Output Power**

| Test Mode   | Channel | Frequency (MHz) | AVG Conducted Power (dBm) | Duty Cycle Factor(dB) | Report Conducted Power(dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|---------------------------|-----------------------|-----------------------------|-------------|---------|
| 11A         | 36      | 5180            | 13.51                     | 0                     | 13.51                       | 24          | Pass    |
|             | 40      | 5200            | 13.76                     | 0                     | 13.76                       |             | Pass    |
|             | 48      | 5240            | 13.88                     | 0                     | 13.88                       |             | Pass    |
| 11N20 SISO  | 36      | 5180            | 13.62                     | 0                     | 13.62                       | 24          | Pass    |
|             | 40      | 5200            | 13.87                     | 0                     | 13.87                       |             | Pass    |
|             | 48      | 5240            | 13.82                     | 0                     | 13.82                       |             | Pass    |
| 11N40 SISO  | 38      | 5190            | 13.94                     | 0                     | 13.94                       | 24          | Pass    |
|             | 46      | 5230            | 13.21                     | 0                     | 13.21                       |             | Pass    |
| 11AC20 SISO | 36      | 5180            | 13.54                     | 0                     | 13.54                       | 24          | Pass    |
|             | 40      | 5200            | 13.83                     | 0                     | 13.83                       |             | Pass    |
|             | 48      | 5240            | 13.86                     | 0                     | 13.86                       |             | Pass    |
| 11AC40 SISO | 38      | 5190            | 13.78                     | 0                     | 13.78                       | 24          | Pass    |
|             | 46      | 5230            | 14.01                     | 0                     | 14.01                       |             | Pass    |
| 11AC80 SISO | 42      | 5210            | 12.66                     | 0                     | 12.66                       | 24          | Pass    |

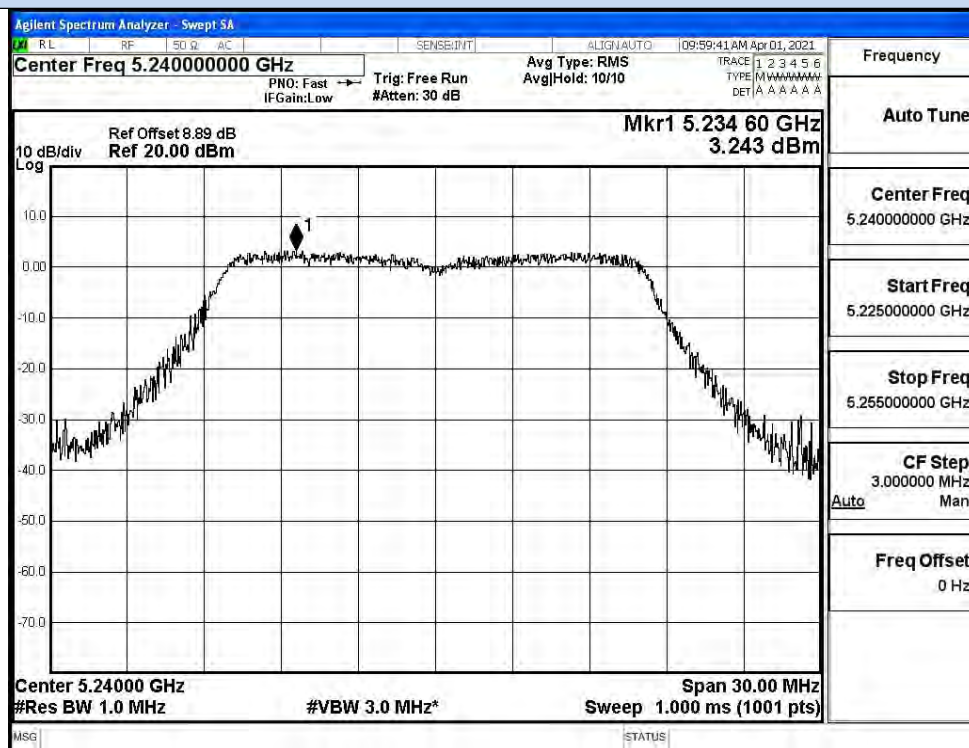
### D.3 Power Spectral Density

| Test Mode   | Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Cycle Factor (dB) | Report Power Density (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-------------|---------|-----------------|-------------------------|------------------------|--------------------------------|-----------------|---------|
| 11A         | 36      | 5180            | 2.80                    | 0                      | 2.80                           | 11              | Pass    |
|             | 40      | 5200            | 3.18                    | 0                      | 3.18                           |                 | Pass    |
|             | 48      | 5240            | 3.24                    | 0                      | 3.24                           |                 | Pass    |
| 11N20 SISO  | 36      | 5180            | 2.69                    | 0                      | 2.69                           | 11              | Pass    |
|             | 40      | 5200            | 2.77                    | 0                      | 2.77                           |                 | Pass    |
|             | 48      | 5240            | 2.94                    | 0                      | 2.94                           |                 | Pass    |
| 11N40 SISO  | 38      | 5190            | -0.04                   | 0                      | -0.04                          | 11              | Pass    |
|             | 46      | 5230            | -0.90                   | 0                      | -0.90                          |                 | Pass    |
| 11AC20 SISO | 36      | 5180            | 2.44                    | 0                      | 2.44                           | 11              | Pass    |
|             | 40      | 5200            | 2.87                    | 0                      | 2.87                           |                 | Pass    |
|             | 48      | 5240            | 2.86                    | 0                      | 2.86                           |                 | Pass    |
| 11AC40 SISO | 38      | 5190            | -0.22                   | 0                      | -0.22                          | 11              | Pass    |
|             | 46      | 5230            | -0.05                   | 0                      | -0.05                          |                 | Pass    |
| 11AC80 SISO | 42      | 5210            | -3.40                   | 0                      | -3.40                          | 11              | Pass    |



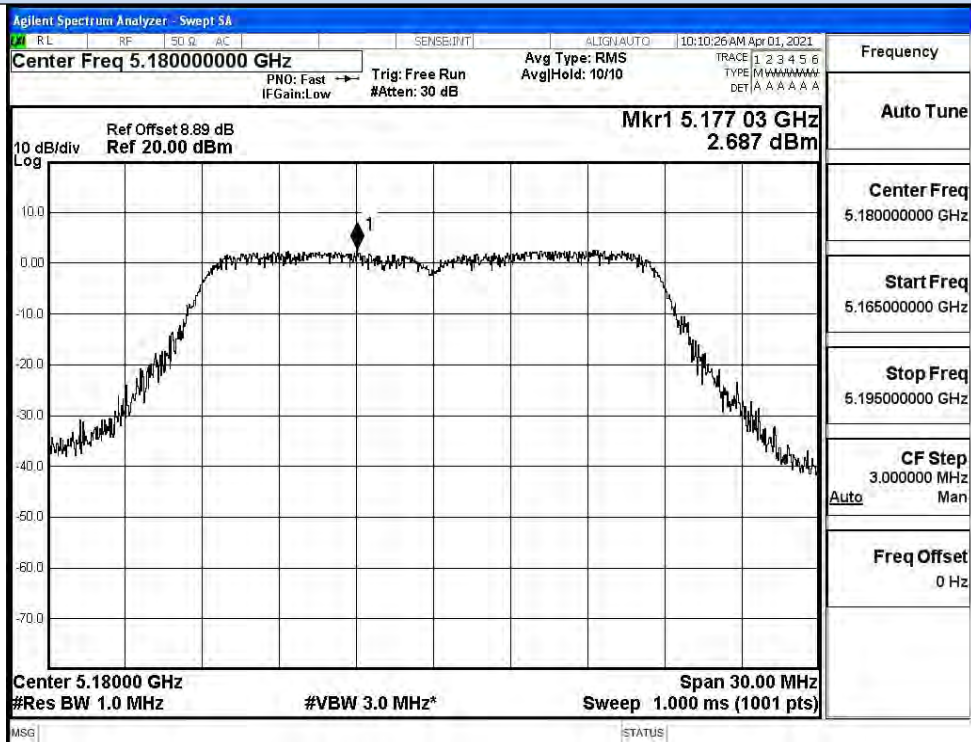


IEEE 802.11na / Channel 40 / 5200MHz

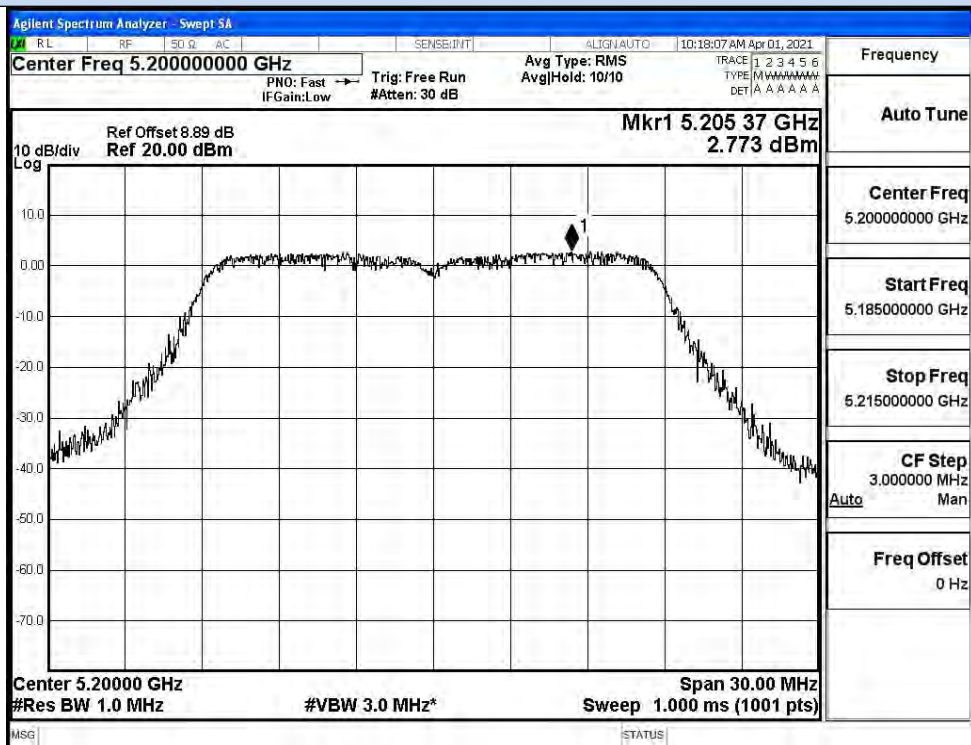


IEEE 802.11na / Channel 48 / 5240MHz

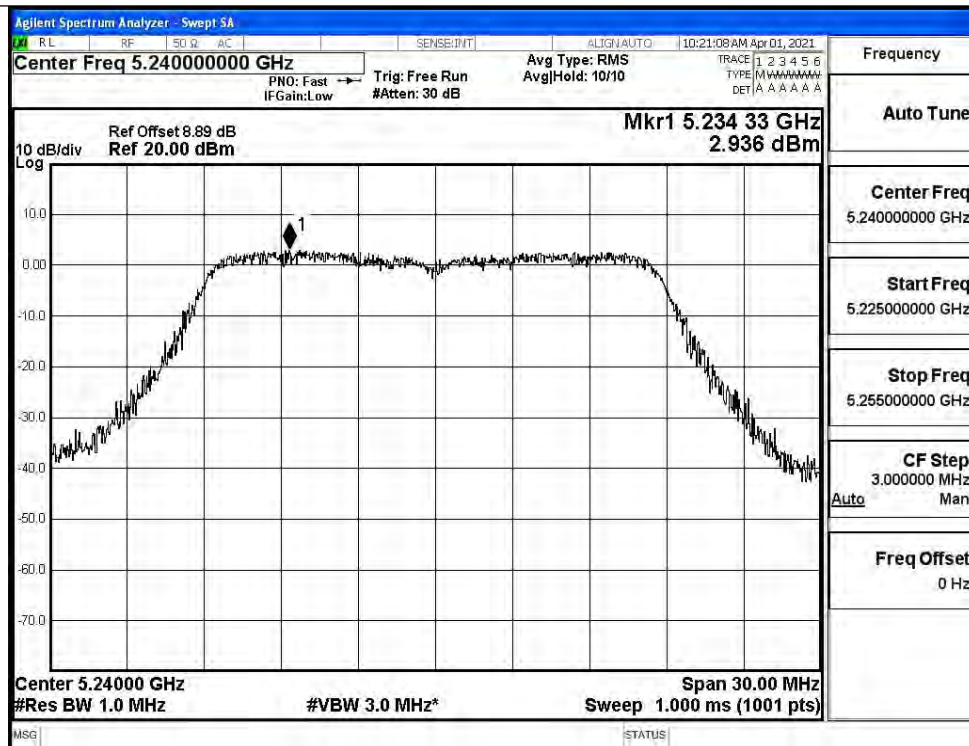
## Power Spectral Density



## IEEE 802.11n20 / Channel 36 / 5180MHz

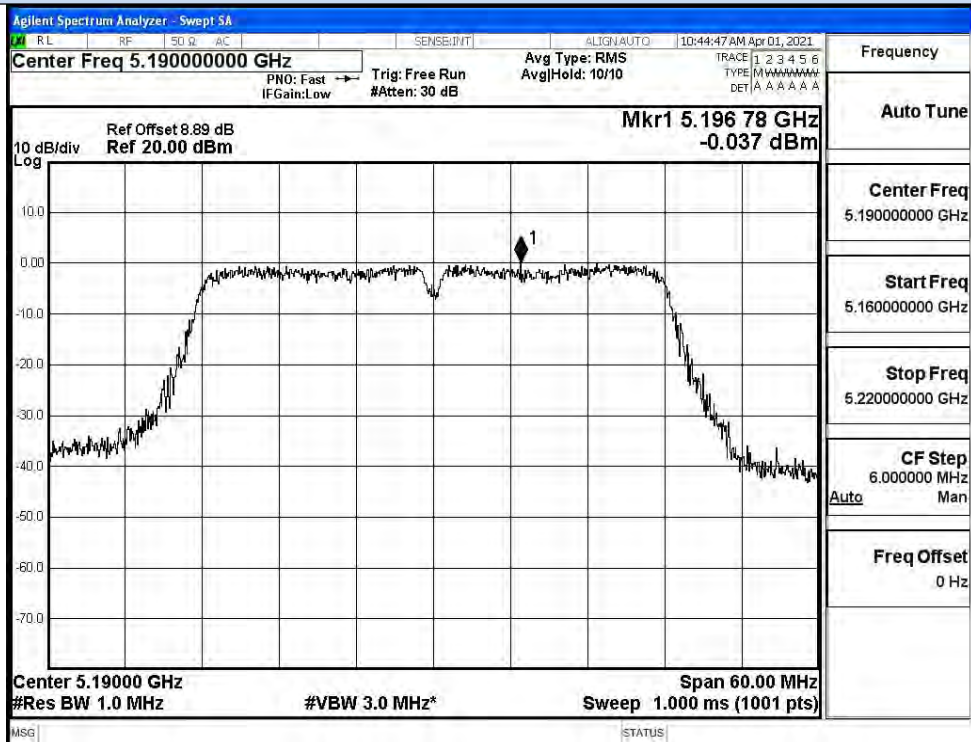


## IEEE 802.11n20 / Channel 40 / 5200MHz

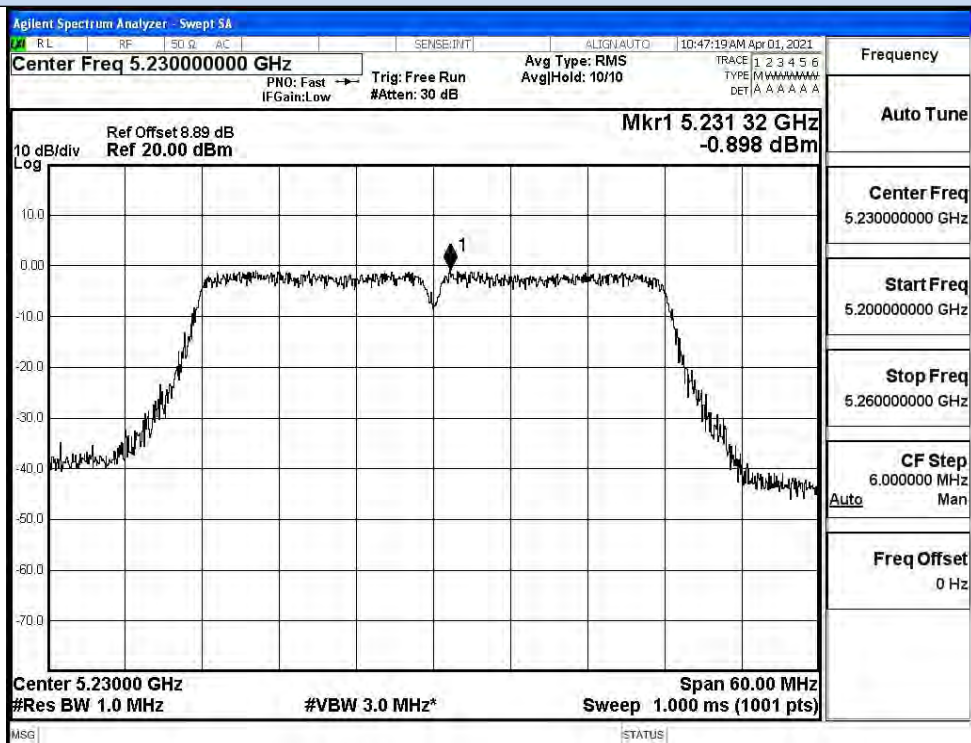


IEEE 802.11n20 / Channel 48 / 5240MHz

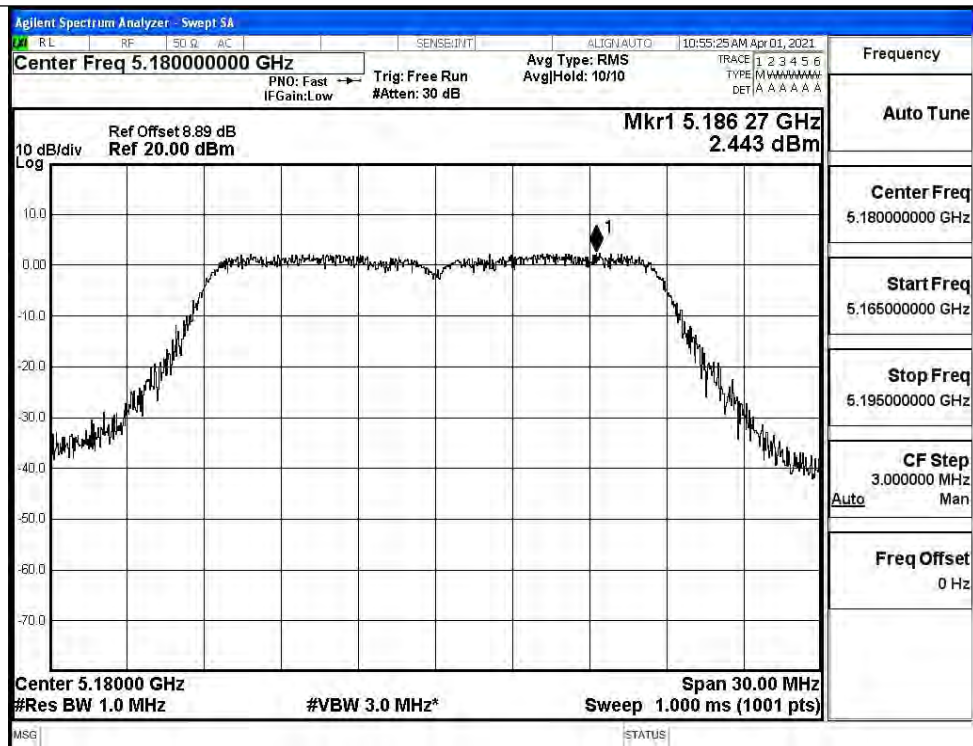
## Power Spectral Density



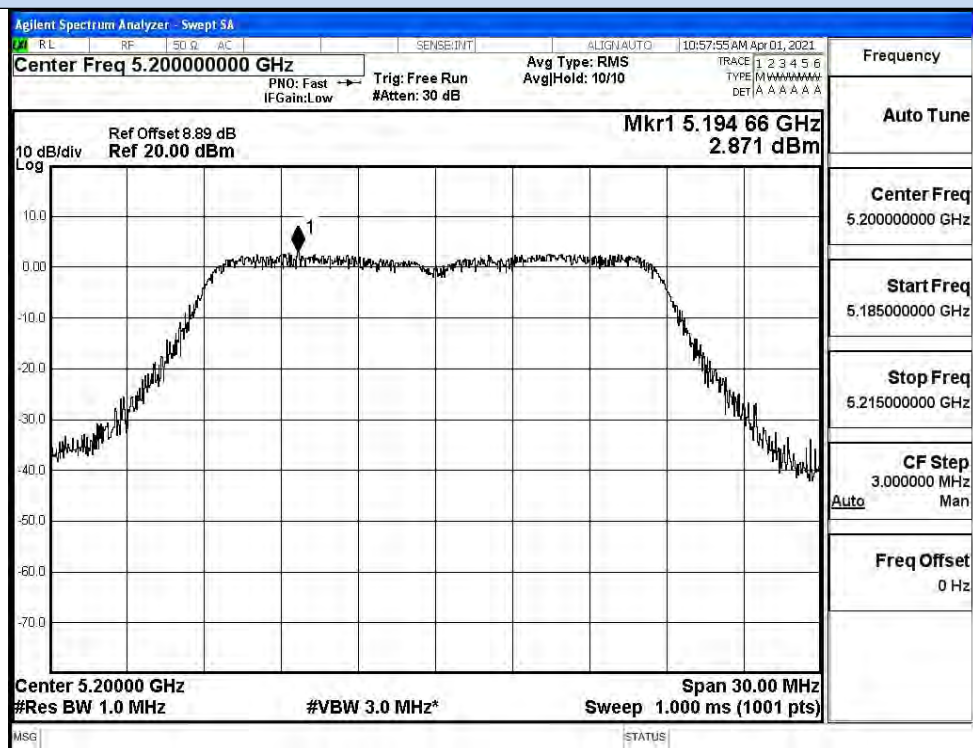
IEEE 802.11n40 / Channel 38 / 5190MHz



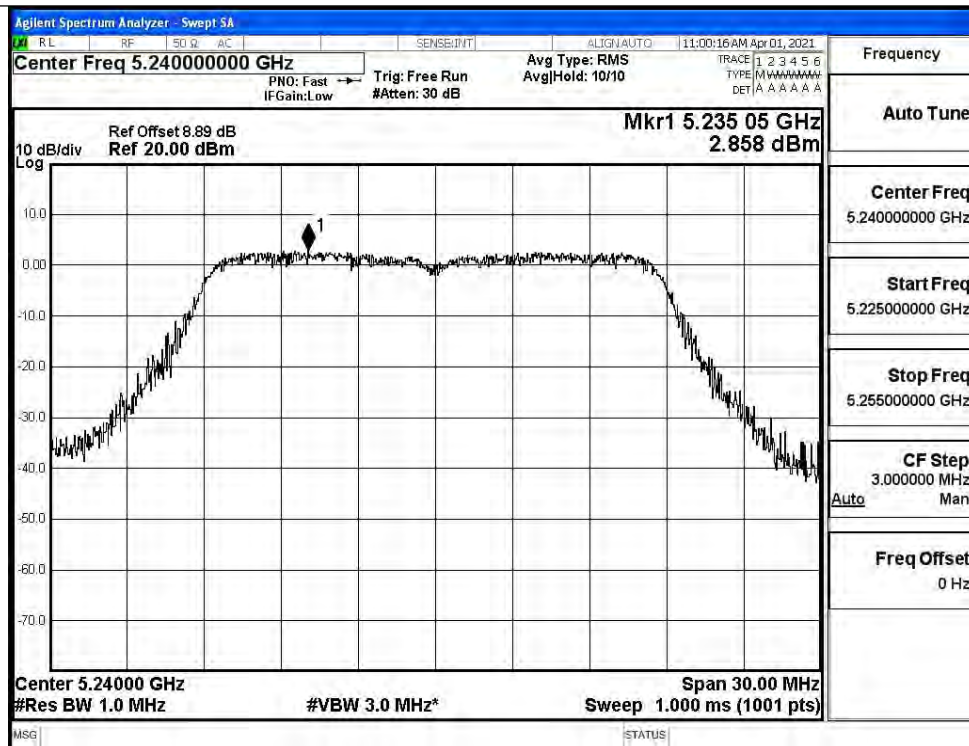
IEEE 802.11n40 / Channel 46 / 5230MHz



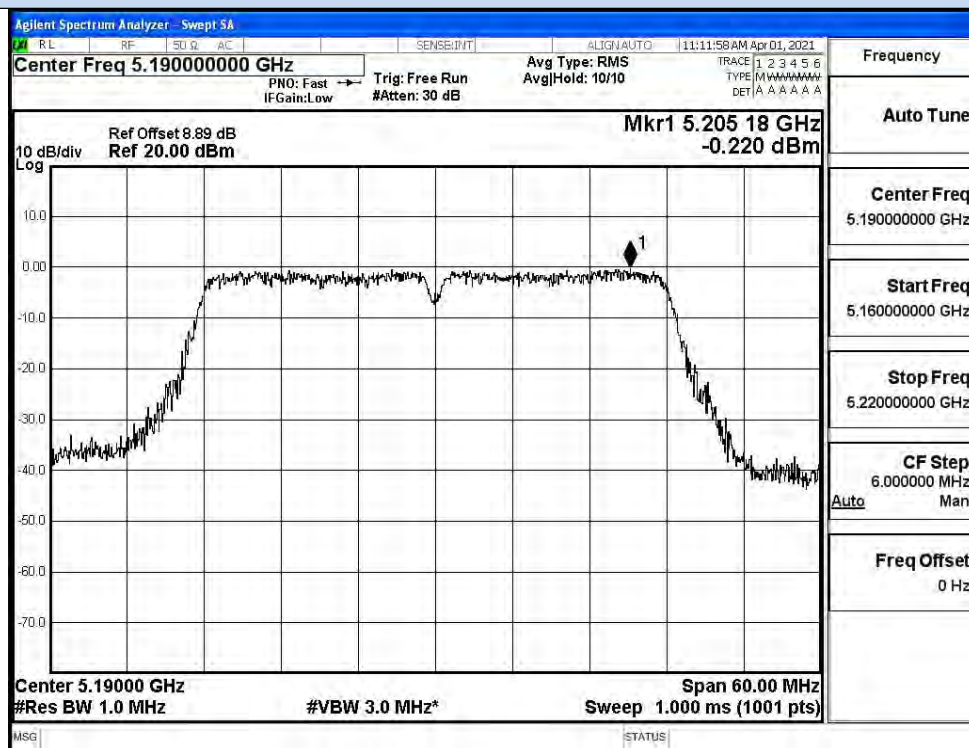
IEEE 802.11ac20 / Channel 36 / 5180MHz



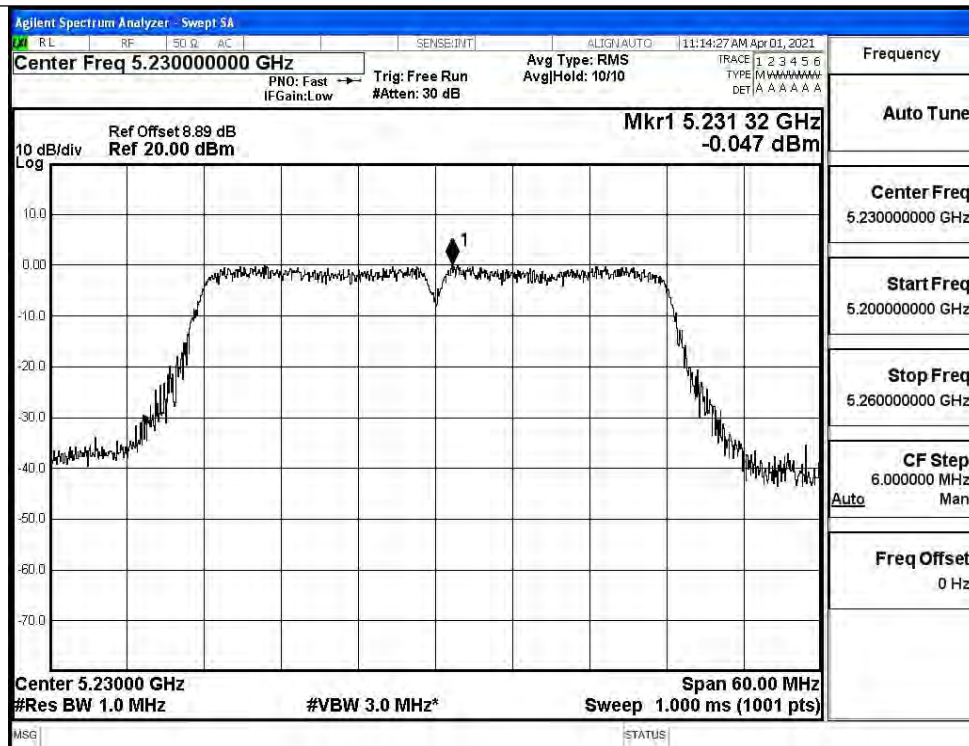
IEEE 802.11ac20 / Channel 40 / 5200MHz



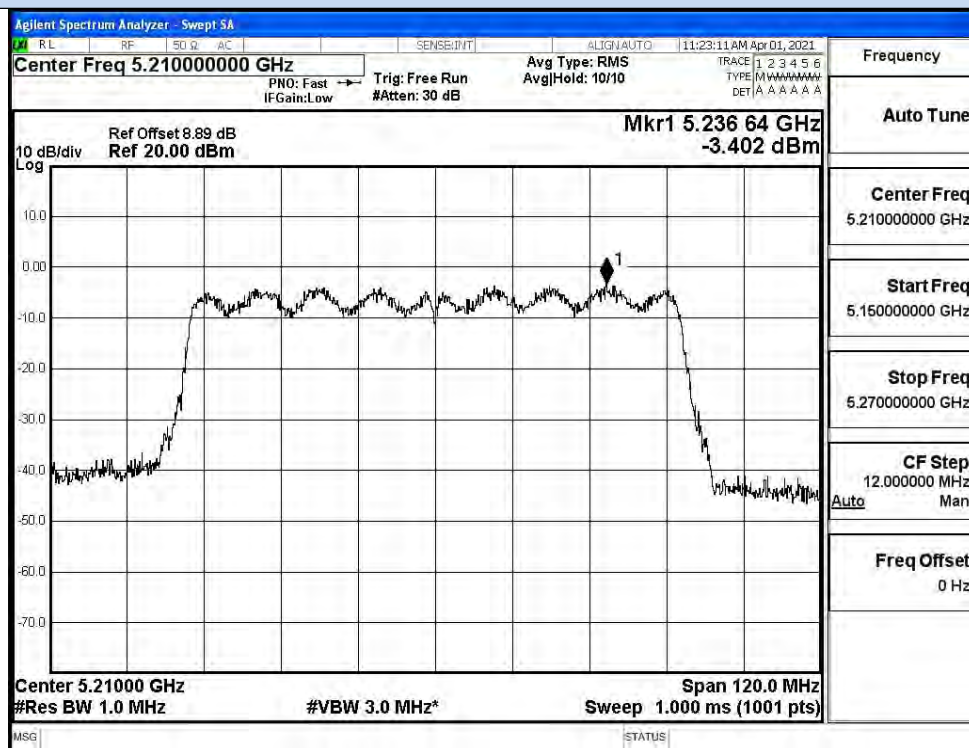
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

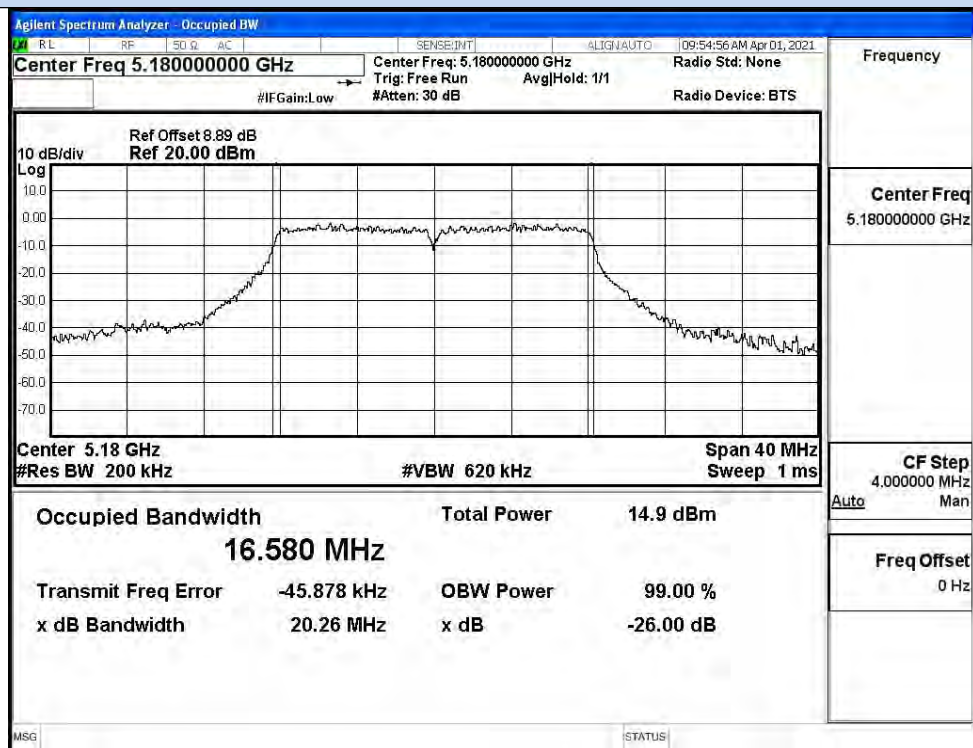


IEEE 802.11ac80 / Channel 42 / 5210MHz

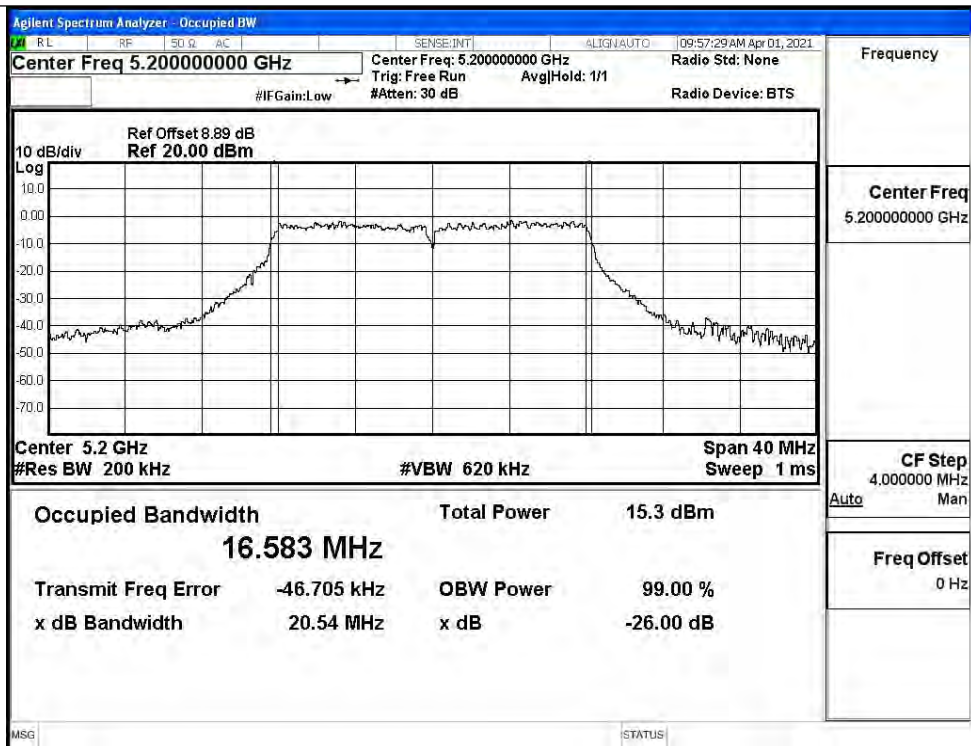
## D.4 Emission Bandwidth

| Test Mode   | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-------------|---------|-----------------|----------------------|-------------|---------|
| 11A         | 36      | 5180            | 20.26                | No Limit    | Pass    |
|             | 40      | 5200            | 20.54                |             | Pass    |
|             | 48      | 5240            | 20.38                |             | Pass    |
| 11N20 SISO  | 36      | 5180            | 21.19                | No Limit    | Pass    |
|             | 40      | 5200            | 21.18                |             | Pass    |
|             | 48      | 5240            | 21.19                |             | Pass    |
| 11N40 SISO  | 38      | 5190            | 41.43                | No Limit    | Pass    |
|             | 46      | 5230            | 41.90                |             | Pass    |
| 11AC20 SISO | 36      | 5180            | 21.27                | No Limi     | Pass    |
|             | 40      | 5200            | 21.20                |             | Pass    |
|             | 48      | 5240            | 20.97                |             | Pass    |
| 11AC40 SISO | 38      | 5190            | 41.76                | No Limi     | Pass    |
|             | 46      | 5230            | 41.45                |             | Pass    |
| 11AC80 SISO | 42      | 5210            | 80.94                | No Limi     | Pass    |

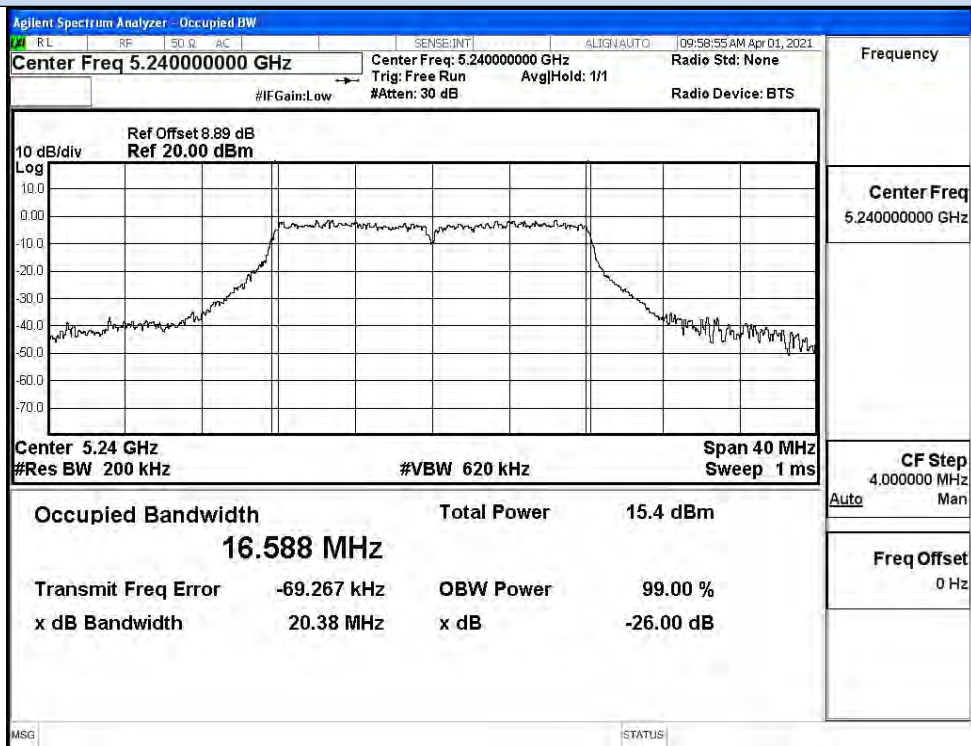
### 26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz

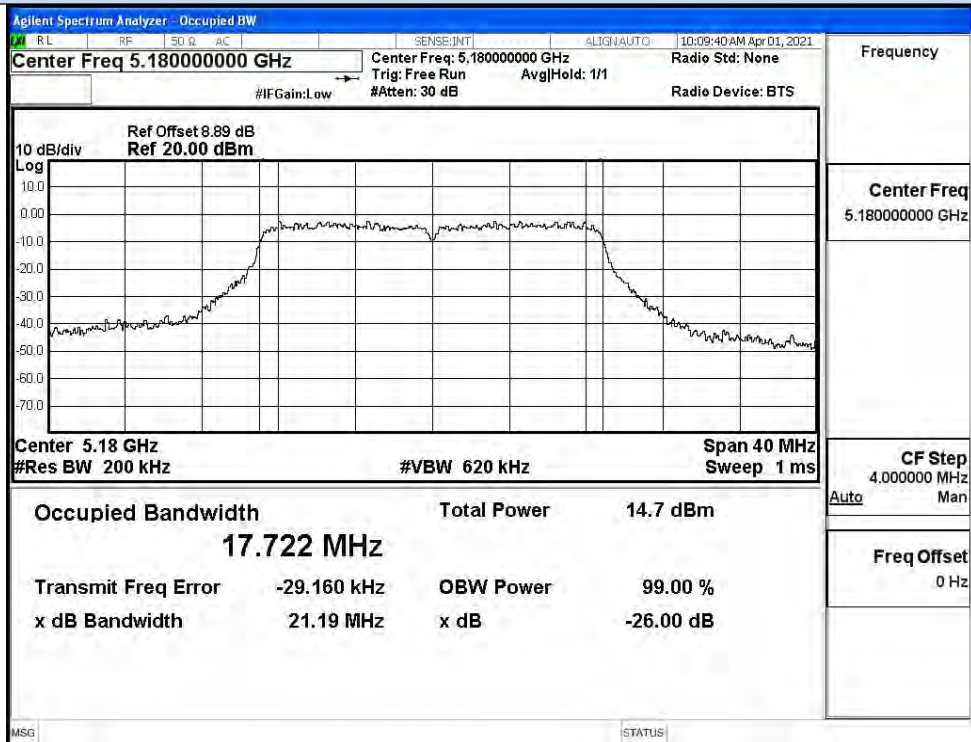


IEEE 802.11a / Channel 40 / 5200MHz

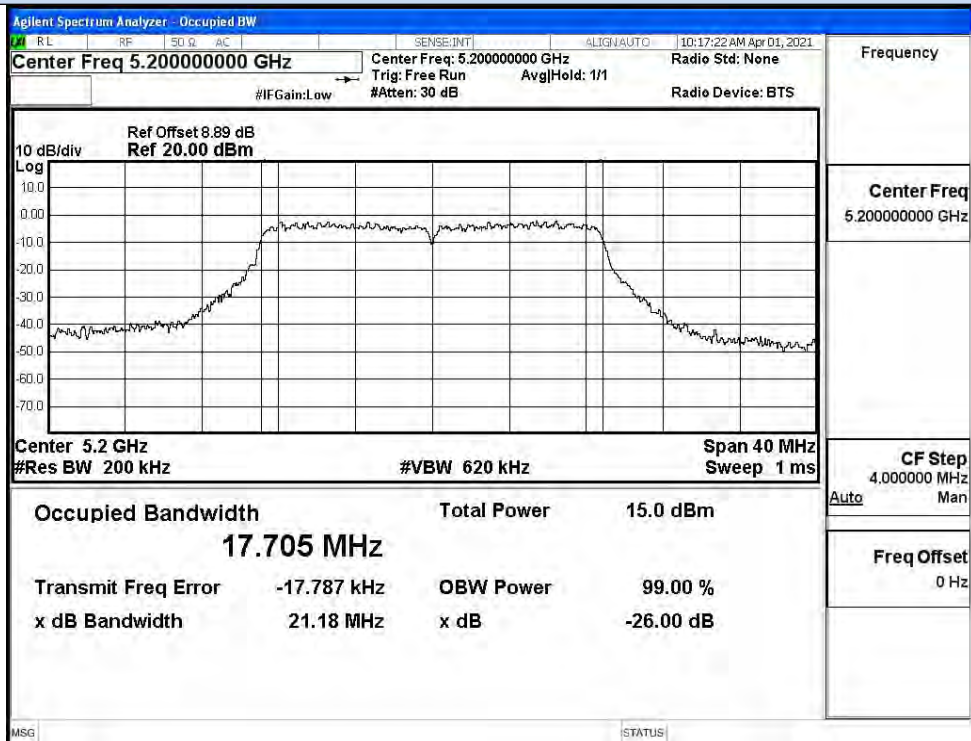


IEEE 802.11a / Channel 48 / 5240MHz

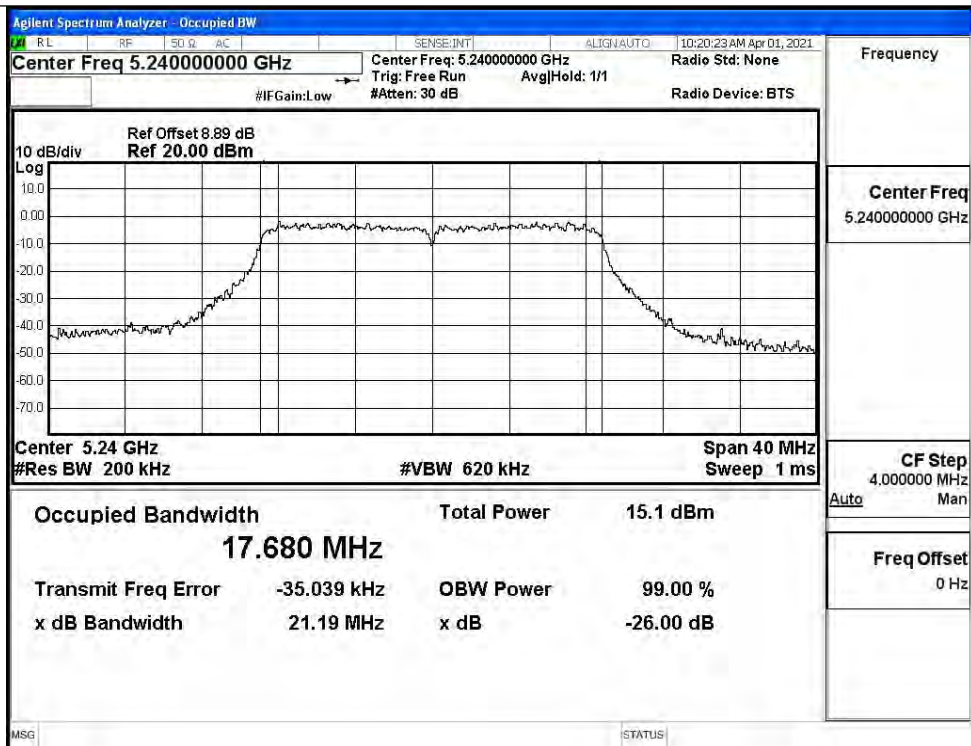
## 26dB Bandwidth



## IEEE 802.11n20 / Channel 36 / 5180MHz

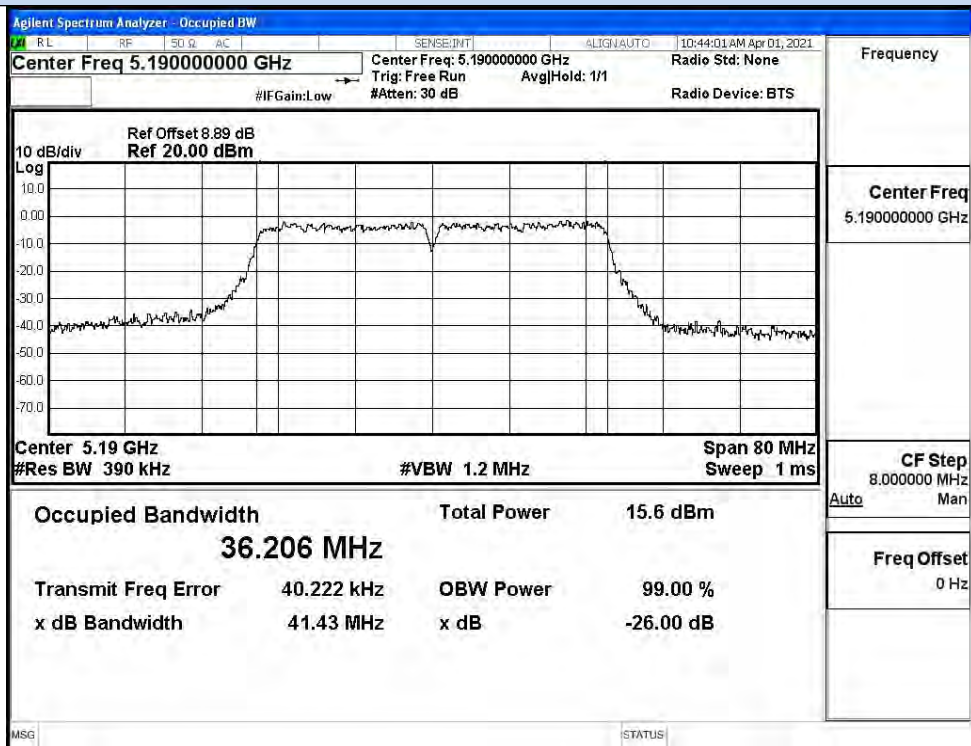


## IEEE 802.11n20 / Channel 40 / 5200MHz

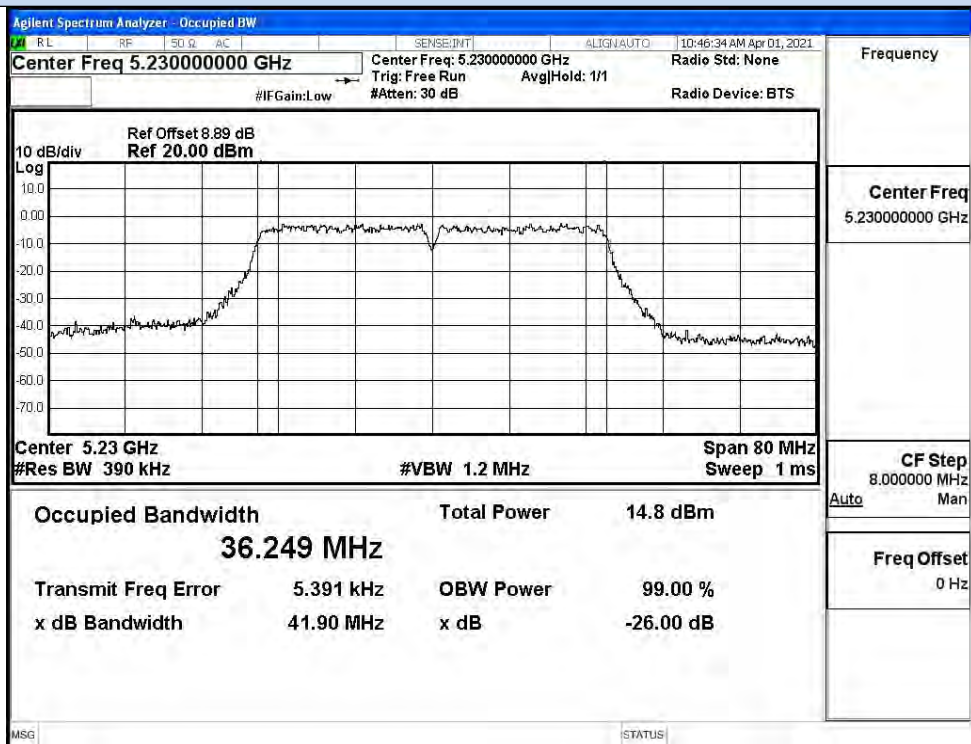


IEEE 802.11n20 / Channel 48 / 5240MHz

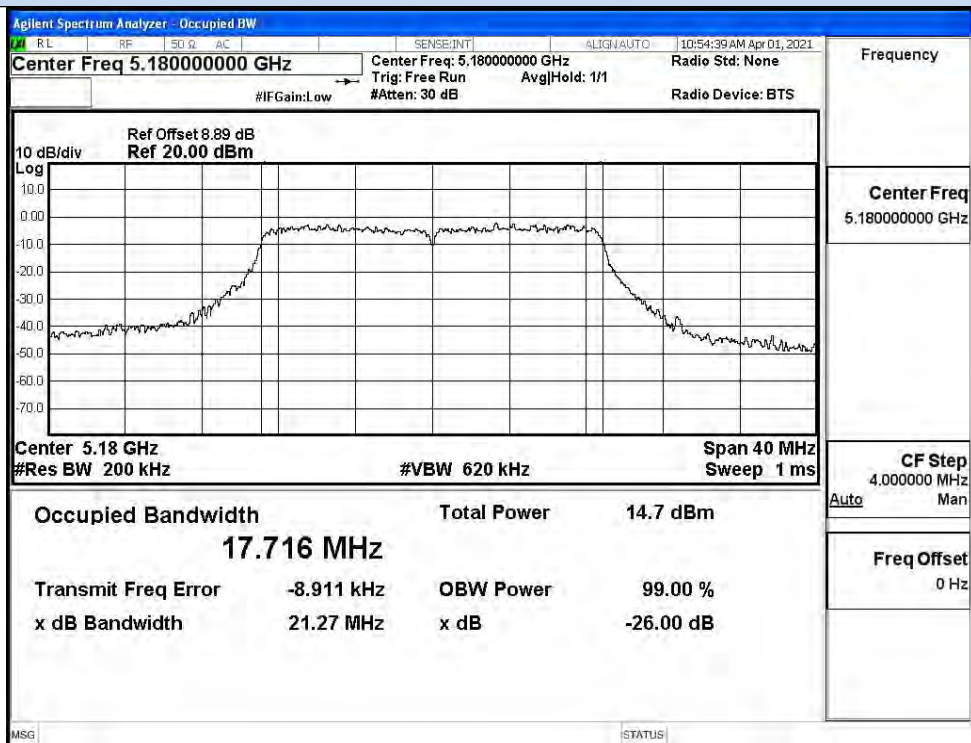
## 26dB Bandwidth



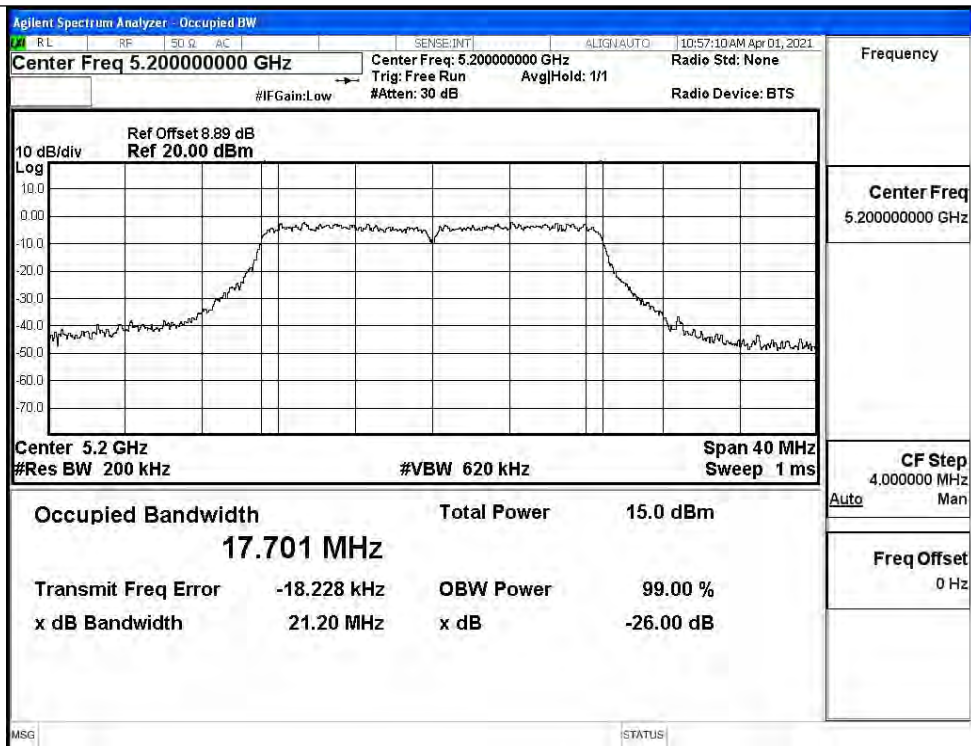
## IEEE 802.11n40 / Channel 38 / 5190MHz



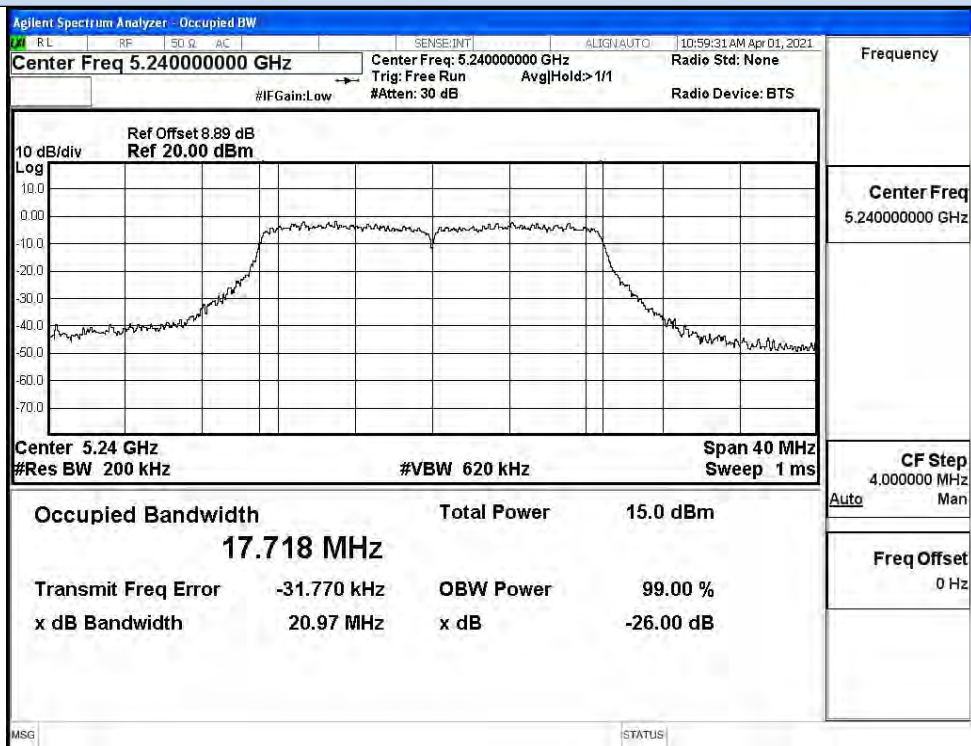
## IEEE 802.11n40 / Channel 46 / 5230MHz



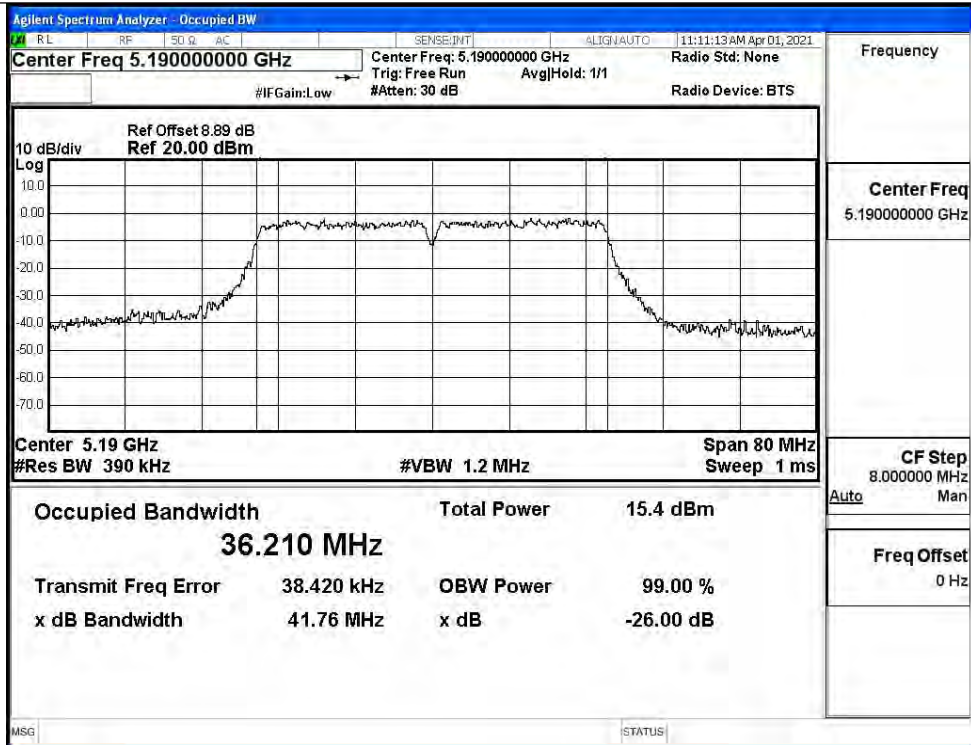
## IEEE 802.11ac20 / Channel 36 / 5180MHz



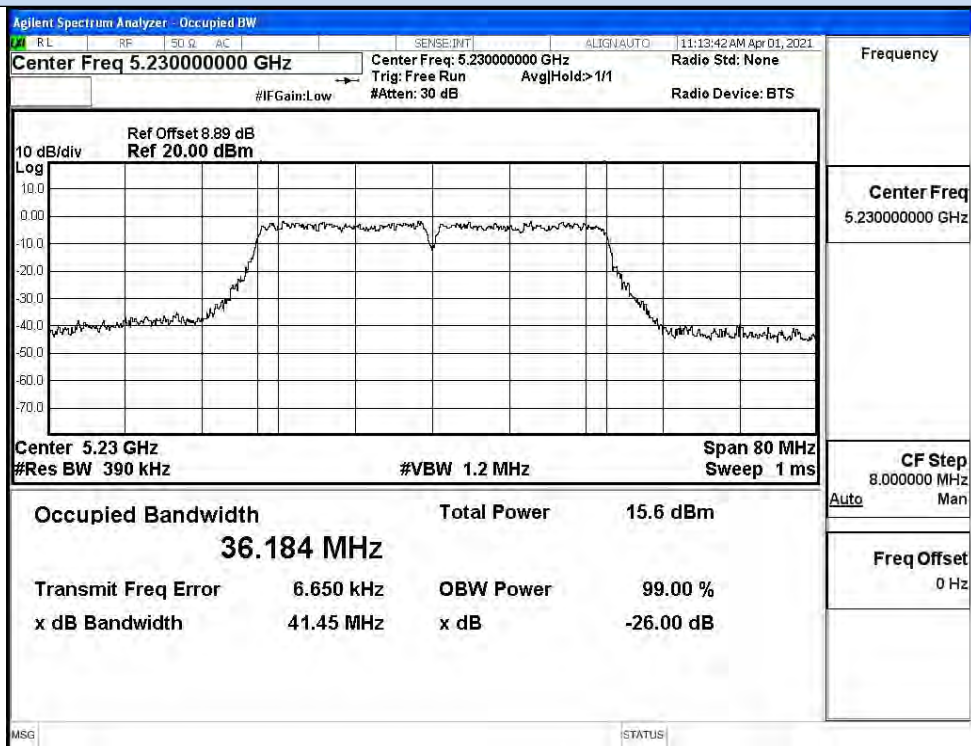
IEEE 802.11ac20 / Channel 40 / 5200MHz



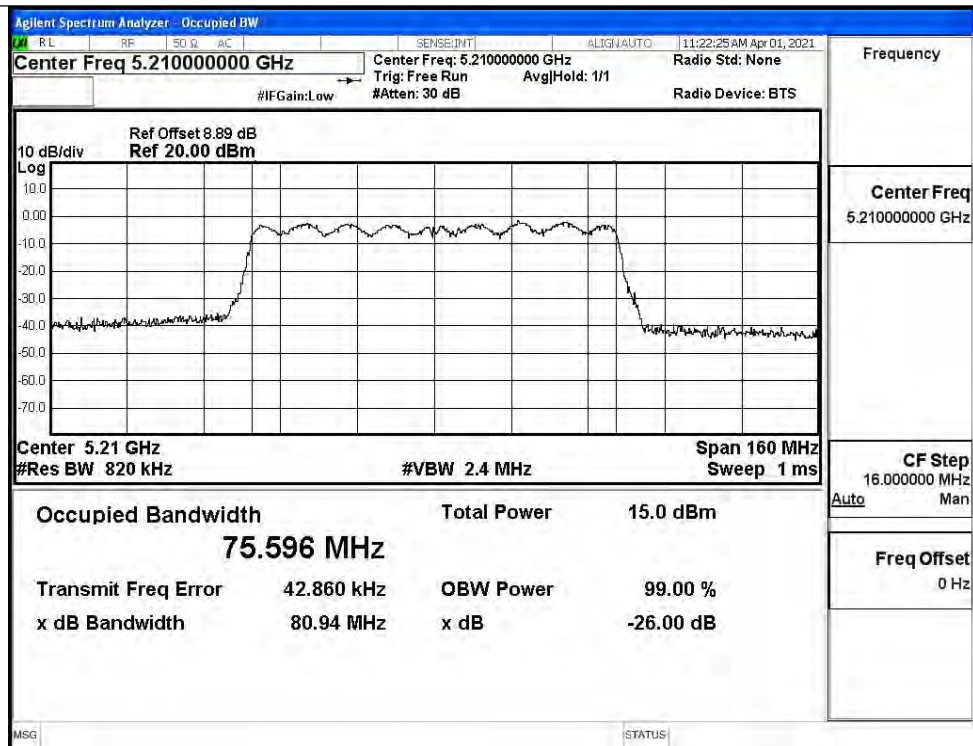
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

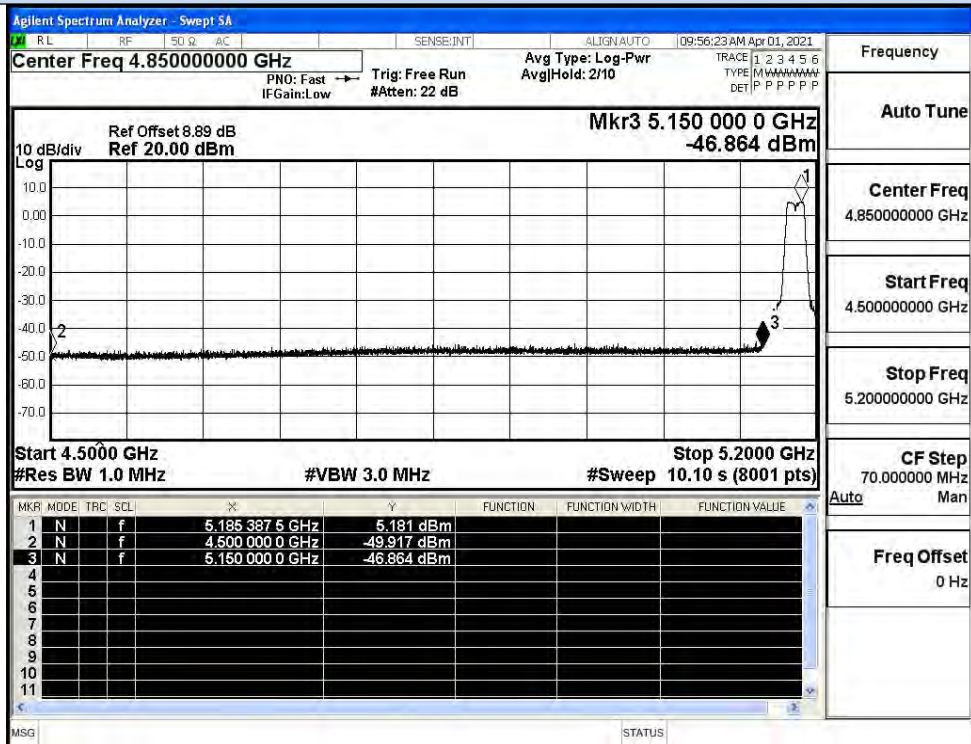


IEEE 802.11ac80 / Channel 42 / 5210MHz

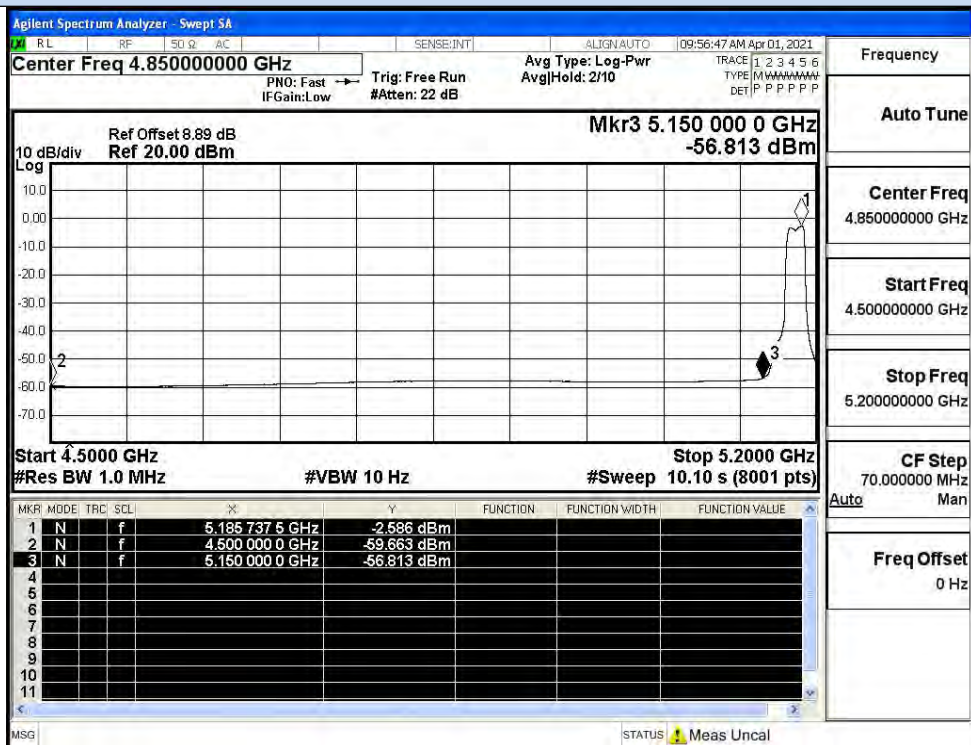
## D.5 Undesirable Emissions Measurement

| Test Mode              | Channel | Frequency (MHz) | Conducted Power (dBm) | Antenna Gain (dBi) | Ground Reflection Factor (dB) | Covert Radiated E Level At 3m (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|------------------------|---------|-----------------|-----------------------|--------------------|-------------------------------|----------------------------------------|----------|----------------|---------|
| 11A                    | 36      | 4500.0          | -49.92                | 2.00               | 0                             | 47.31                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -59.66                | 2.00               | 0                             | 37.57                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -46.86                | 2.00               | 0                             | 50.37                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -56.81                | 2.00               | 0                             | 40.42                                  | Average  | 54.00          | Pass    |
|                        | 48      | 5350.0          | -48.26                | 2.00               | 0                             | 48.97                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -59.13                | 2.00               | 0                             | 38.10                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -47.72                | 2.00               | 0                             | 49.51                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.23                | 2.00               | 0                             | 38.00                                  | Average  | 54.00          | Pass    |
| 11N2<br>0<br>SISO      | 36      | 4500.0          | -49.47                | 2.00               | 0                             | 47.76                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -59.68                | 2.00               | 0                             | 37.55                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -43.23                | 2.00               | 0                             | 54.00                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -56.71                | 2.00               | 0                             | 40.52                                  | Average  | 54.00          | Pass    |
|                        | 48      | 5350.0          | -48.44                | 2.00               | 0                             | 48.79                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -59.24                | 2.00               | 0                             | 37.99                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -49.63                | 2.00               | 0                             | 47.60                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.39                | 2.00               | 0                             | 37.84                                  | Average  | 54.00          | Pass    |
| 11N4<br>0<br>SISO      | 38      | 4500.0          | -50.06                | 2.00               | 0                             | 47.17                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -59.77                | 2.00               | 0                             | 37.46                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -34.37                | 2.00               | 0                             | 62.86                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -47.70                | 2.00               | 0                             | 49.53                                  | Average  | 54.00          | Pass    |
|                        | 46      | 5350.0          | -48.40                | 2.00               | 0                             | 48.83                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -58.99                | 2.00               | 0                             | 38.24                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -48.49                | 2.00               | 0                             | 48.74                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.06                | 2.00               | 0                             | 38.17                                  | Average  | 54.00          | Pass    |
| 11A<br>C20<br>SIS<br>O | 36      | 4500.0          | -49.23                | 2.00               | 0                             | 48.00                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -59.78                | 2.00               | 0                             | 37.45                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -44.29                | 2.00               | 0                             | 52.94                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -56.79                | 2.00               | 0                             | 40.44                                  | Average  | 54.00          | Pass    |
|                        | 48      | 4500.0          | -49.23                | 2.00               | 0                             | 48.00                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -59.78                | 2.00               | 0                             | 37.45                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -44.29                | 2.00               | 0                             | 52.94                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -56.79                | 2.00               | 0                             | 40.44                                  | Average  | 54.00          | Pass    |
| 11A<br>C40<br>SIS<br>O | 38      | 4500.0          | -49.95                | 2.00               | 0                             | 47.28                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -59.78                | 2.00               | 0                             | 37.45                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -35.70                | 2.00               | 0                             | 61.53                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -47.80                | 2.00               | 0                             | 49.43                                  | Average  | 54.00          | Pass    |
|                        | 46      | 5350.0          | -48.21                | 2.00               | 0                             | 49.02                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -58.94                | 2.00               | 0                             | 38.29                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -48.89                | 2.00               | 0                             | 48.34                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -59.08                | 2.00               | 0                             | 38.15                                  | Average  | 54.00          | Pass    |
| 11A<br>C80<br>SIS<br>O | 42      | 4500.0          | -49.22                | 2.00               | 0                             | 48.01                                  | Peak     | 68.20          | Pass    |
|                        |         | 4500.0          | -58.48                | 2.00               | 0                             | 38.75                                  | Average  | 54.00          | Pass    |
|                        |         | 5150.0          | -49.78                | 2.00               | 0                             | 47.45                                  | Peak     | 68.20          | Pass    |
|                        |         | 5150.0          | -58.67                | 2.00               | 0                             | 38.56                                  | Average  | 54.00          | Pass    |
|                        |         | 5350.0          | -49.22                | 2.00               | 0                             | 48.01                                  | Peak     | 68.20          | Pass    |
|                        |         | 5350.0          | -58.48                | 2.00               | 0                             | 38.75                                  | Average  | 54.00          | Pass    |
|                        |         | 5460.0          | -49.78                | 2.00               | 0                             | 47.45                                  | Peak     | 68.20          | Pass    |
|                        |         | 5460.0          | -58.67                | 2.00               | 0                             | 38.56                                  | Average  | 54.00          | Pass    |

## Undesirable Emissions Measurement

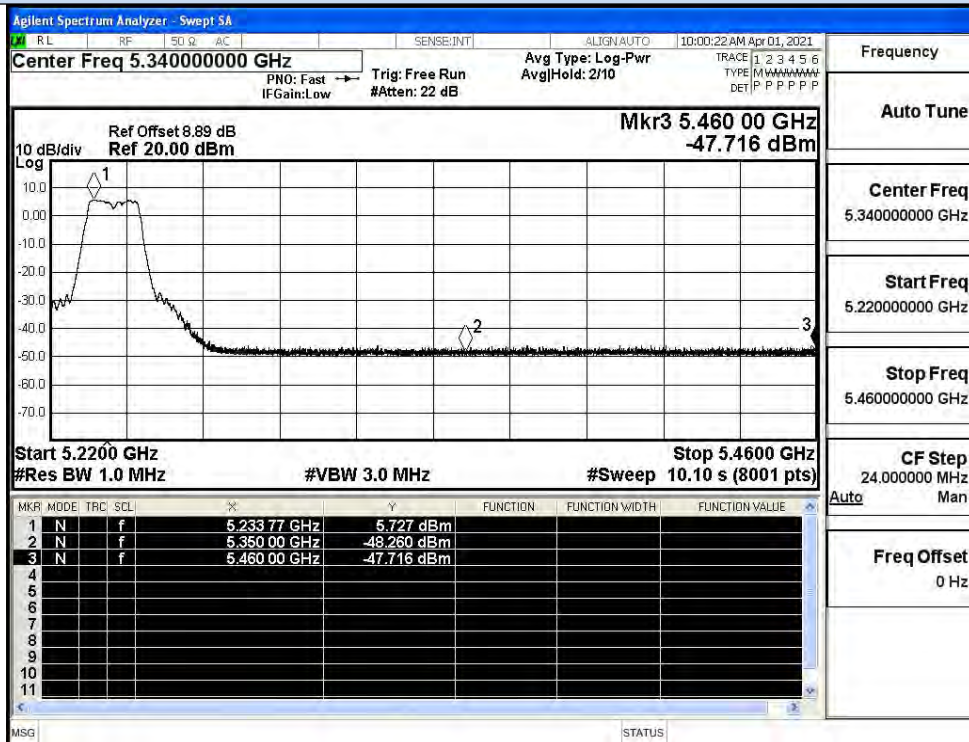


## IEEE 802.11a / Channel 36 / 5180MHz / Peak

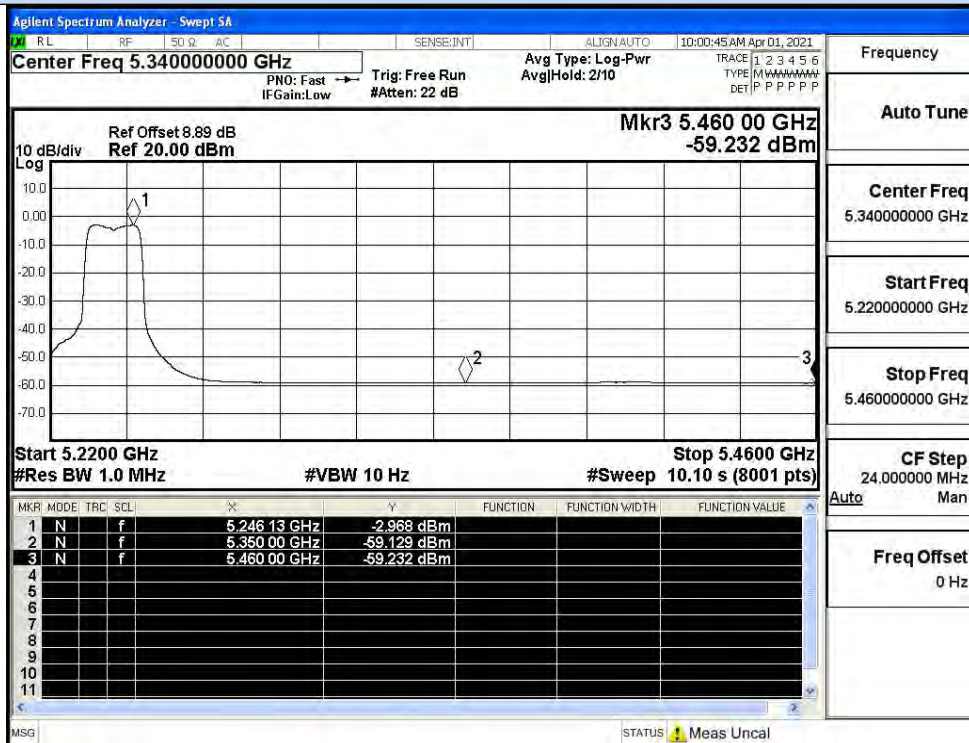


## IEEE 802.11a / Channel 36 / 5180MHz / Average

## Undesirable Emissions Measurement

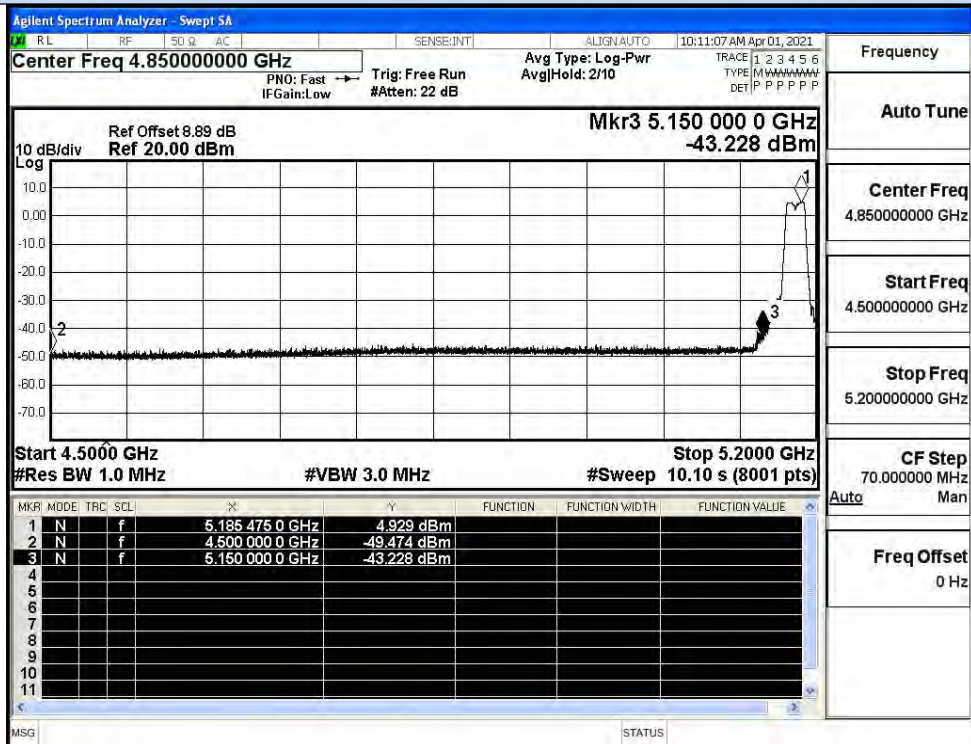


## IEEE 802.11a / Channel 48 / 5240MHz / Peak

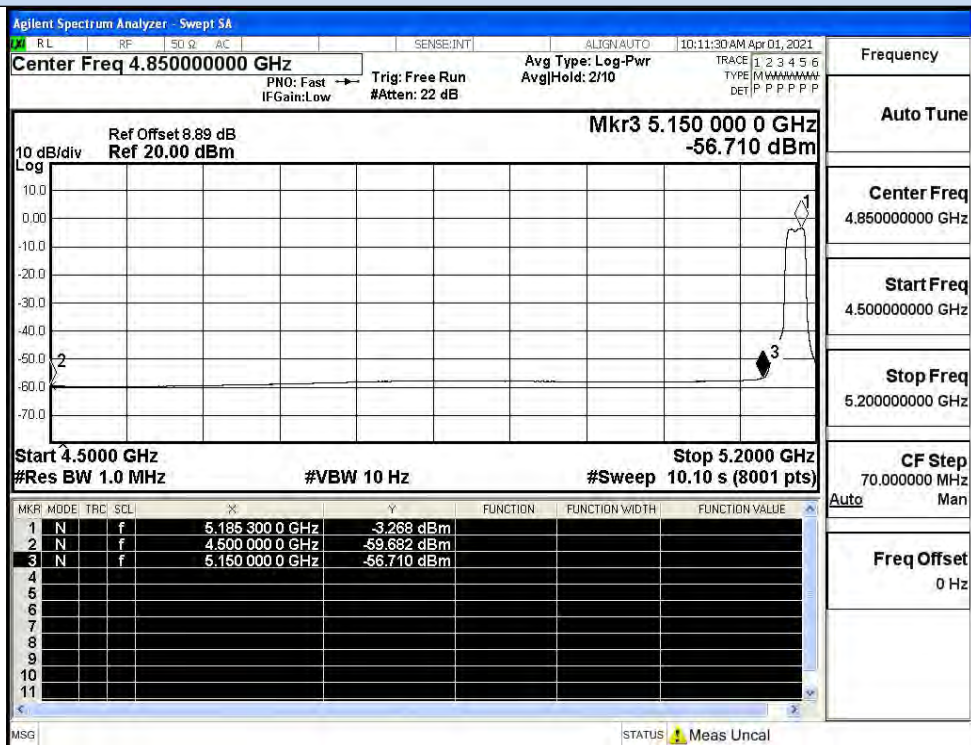


## IEEE 802.11a / Channel 48 / 5240MHz / Average

## Undesirable Emissions Measurement

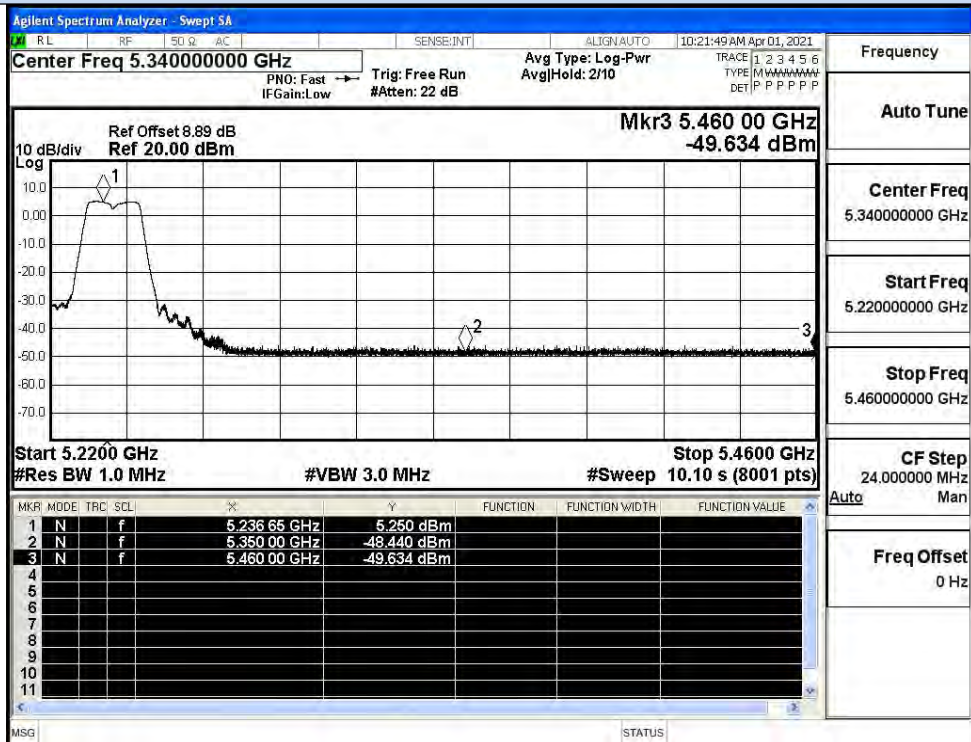


## IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

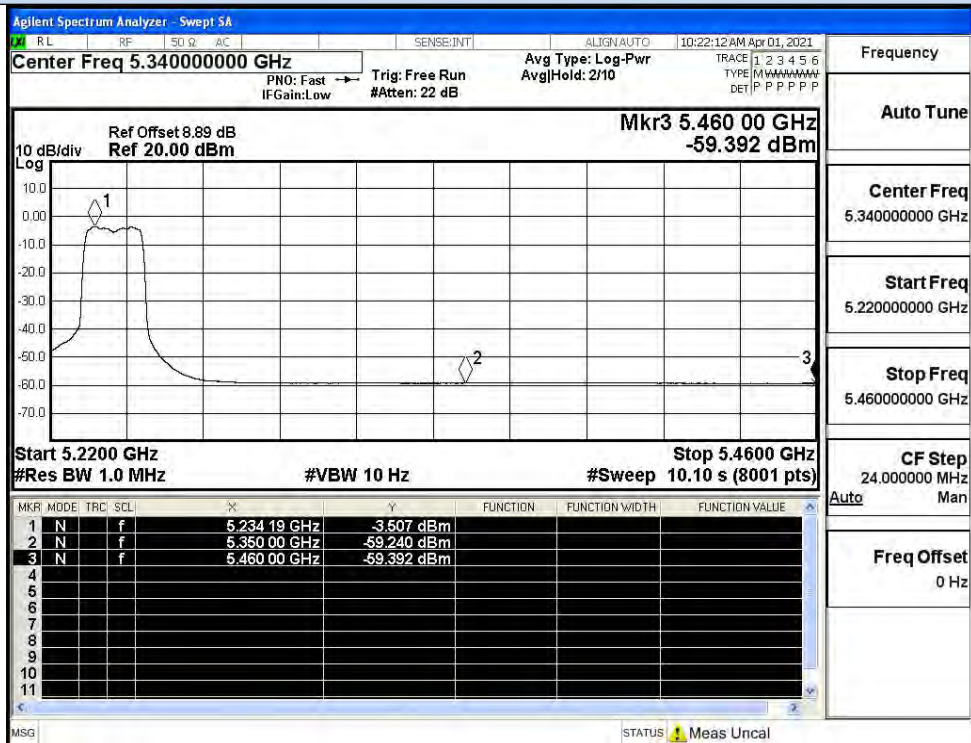


## IEEE 802.11n20 / Channel 36 / 5180MHz / Average

## Undesirable Emissions Measurement

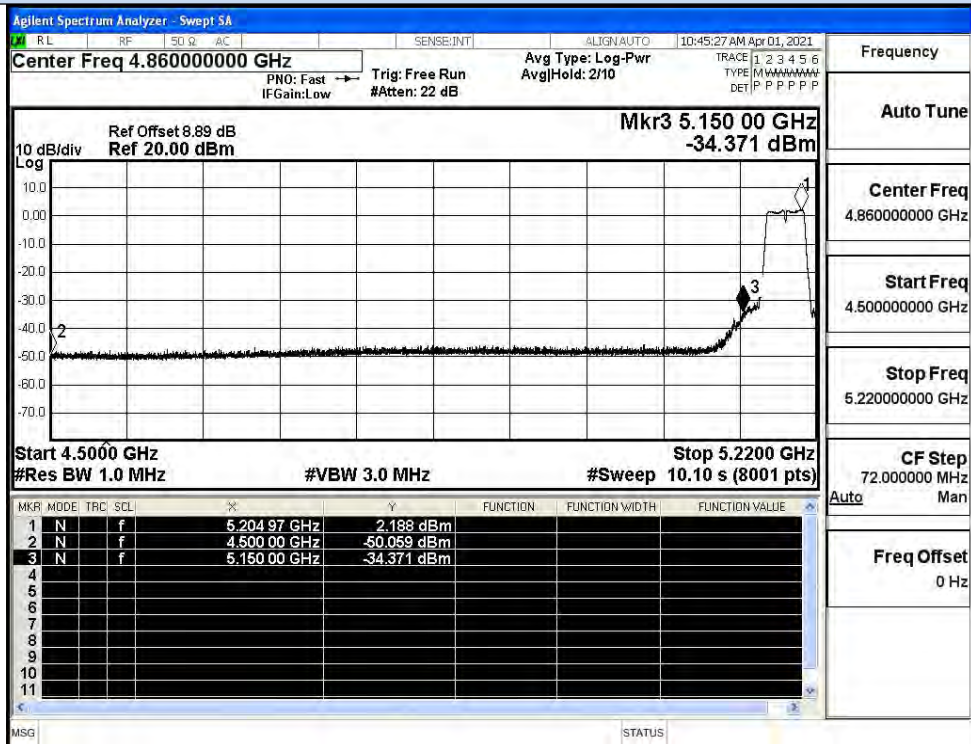


## IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

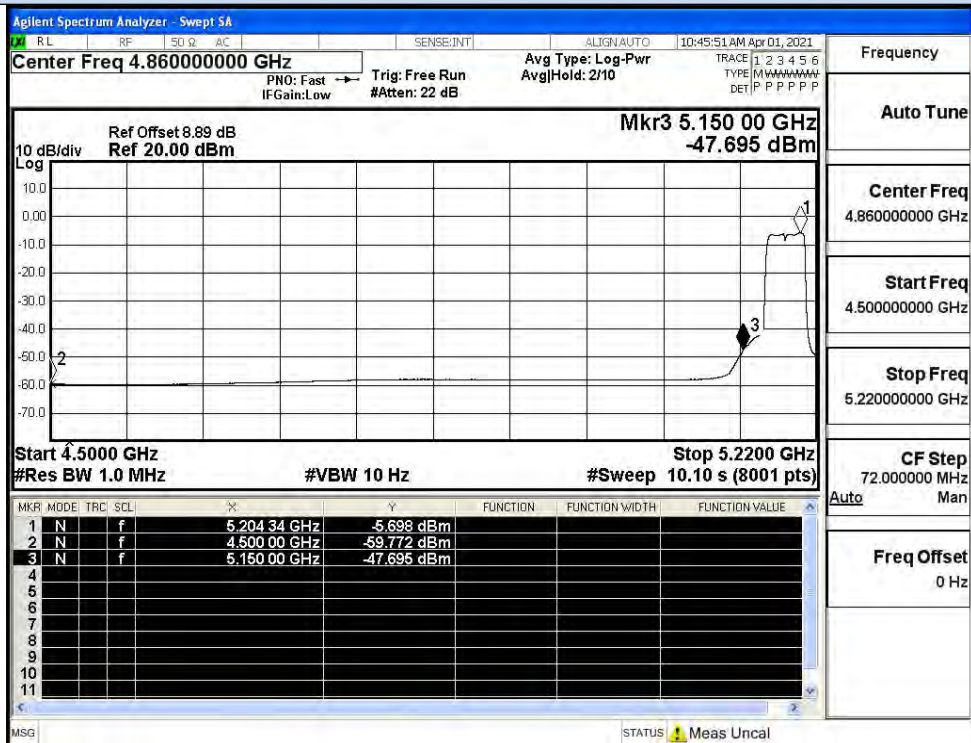


## IEEE 802.11n20 / Channel 48 / 5240MHz / Average

## Undesirable Emissions Measurement

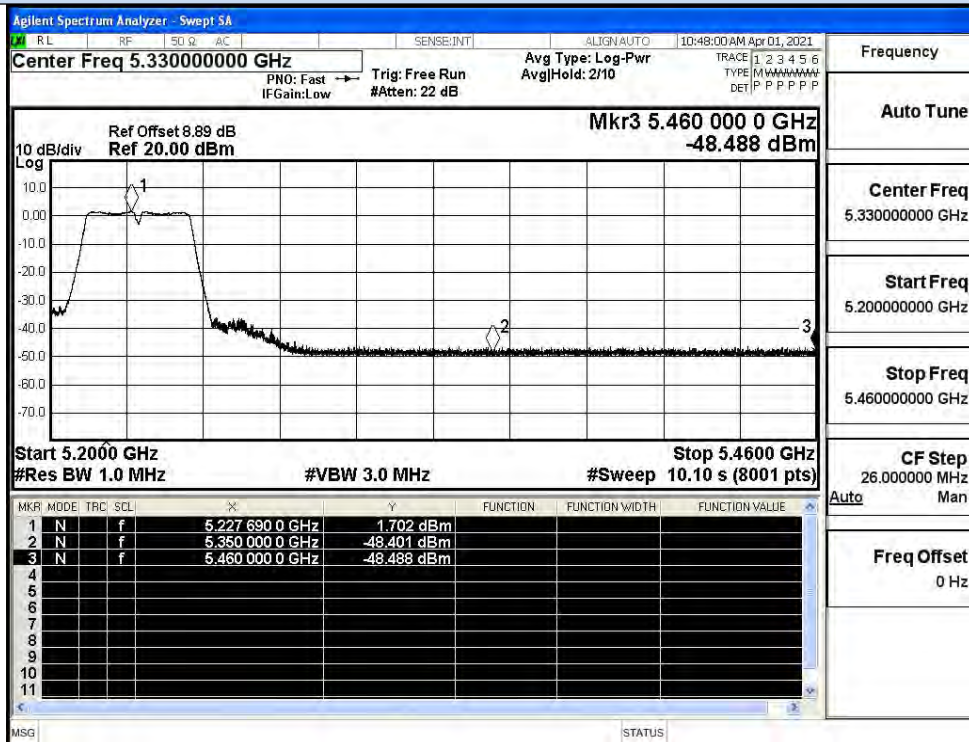


## IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

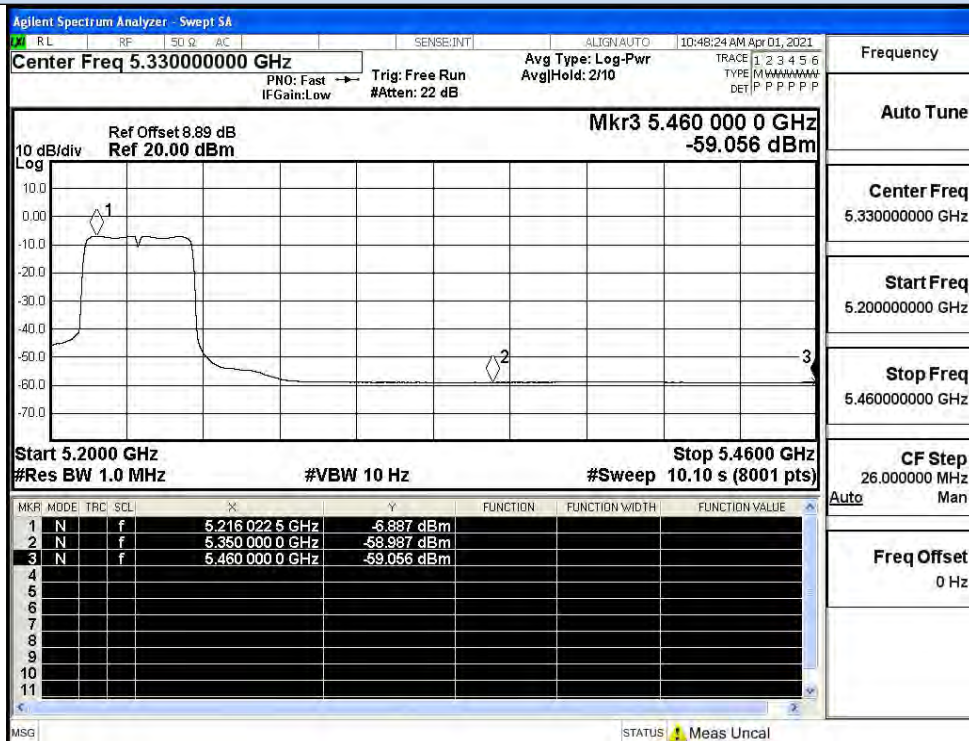


## IEEE 802.11n40 / Channel 38 / 5190MHz / Average

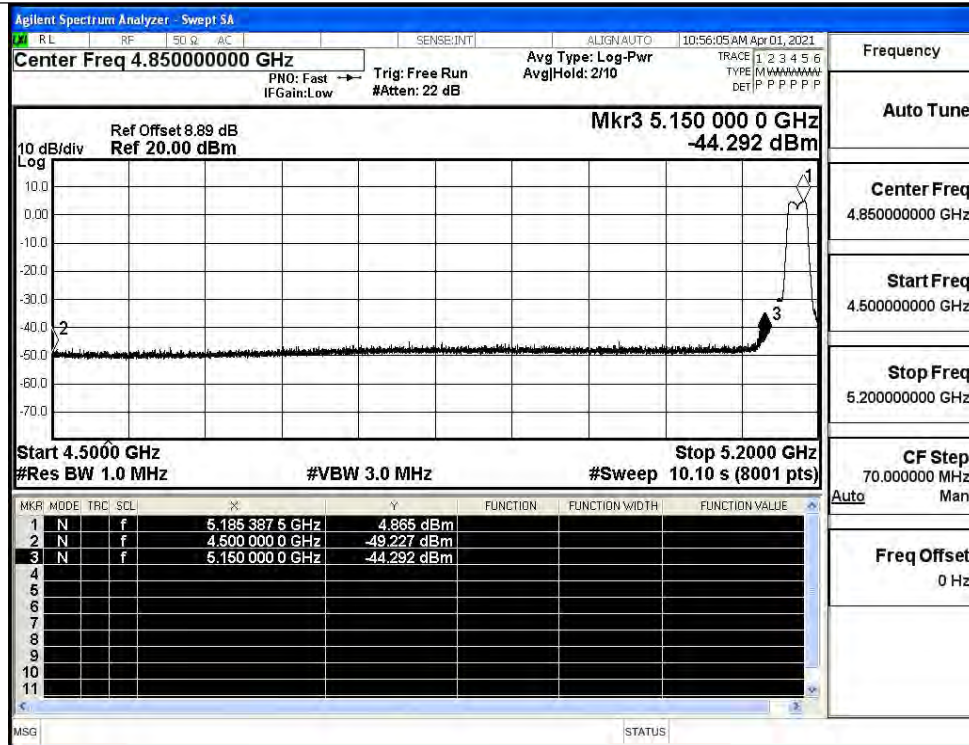
## Undesirable Emissions Measurement



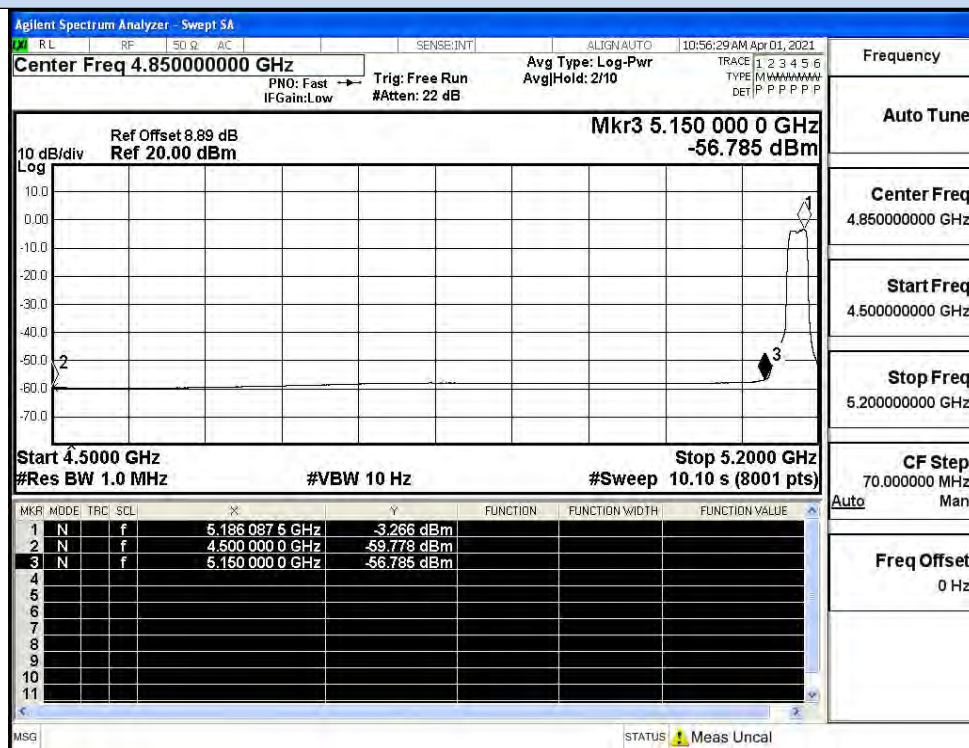
## IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



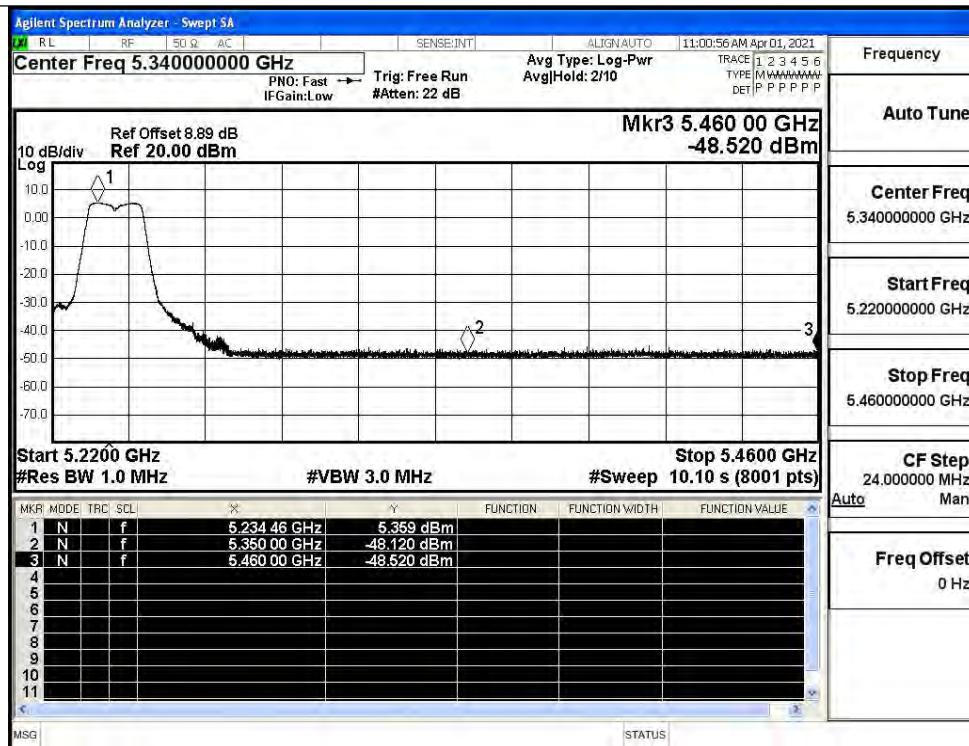
## IEEE 802.11n40 / Channel 46 / 5230MHz / Average



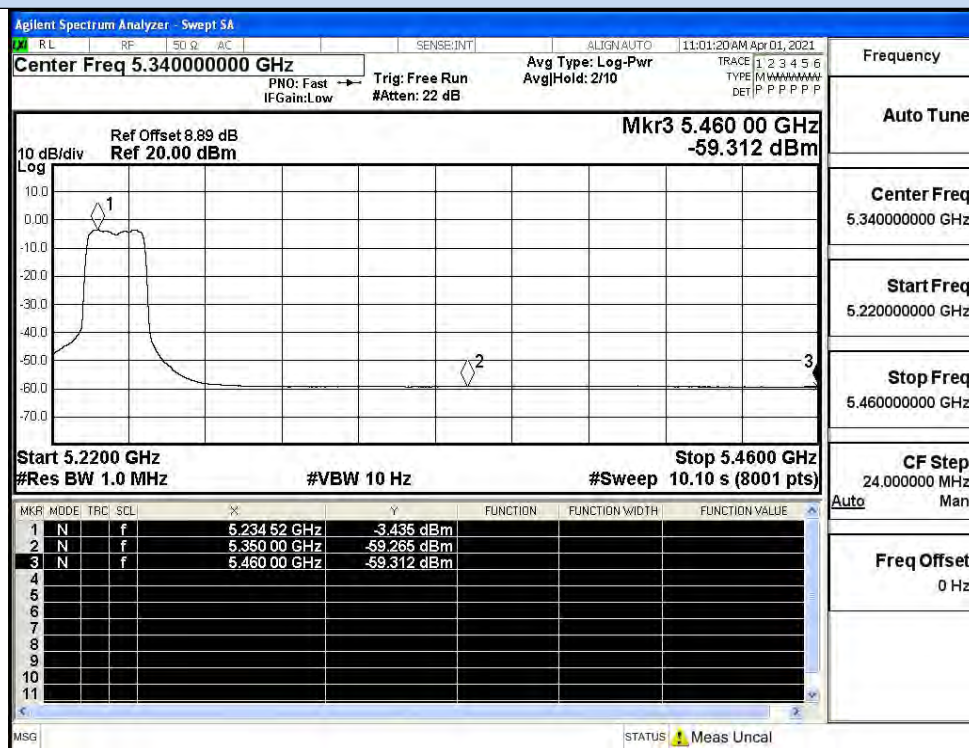
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



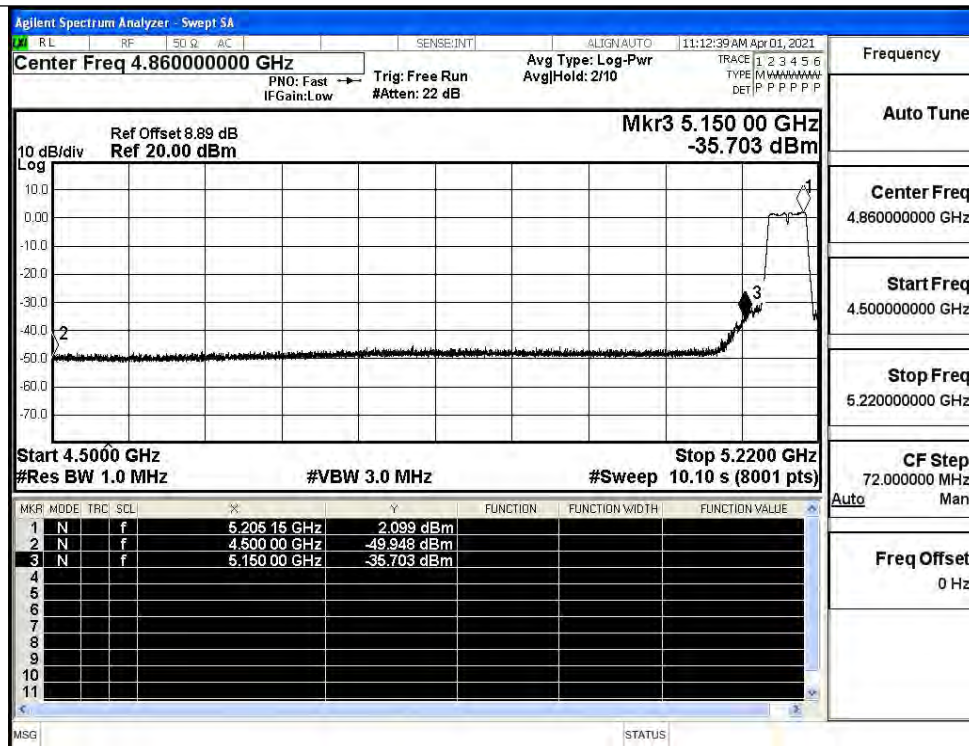
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



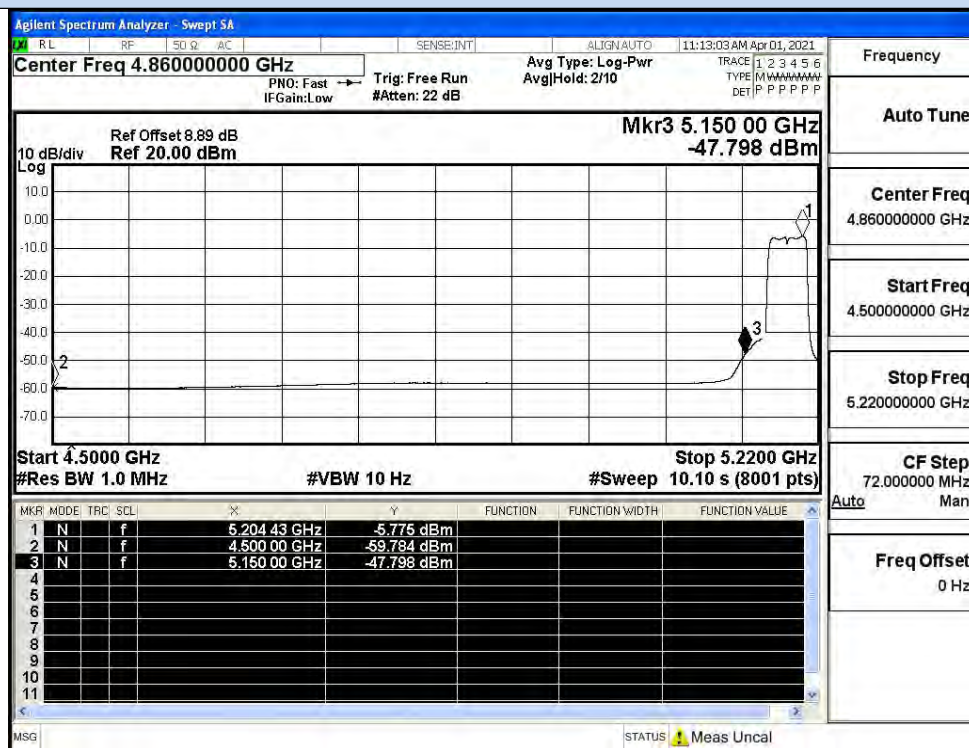
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



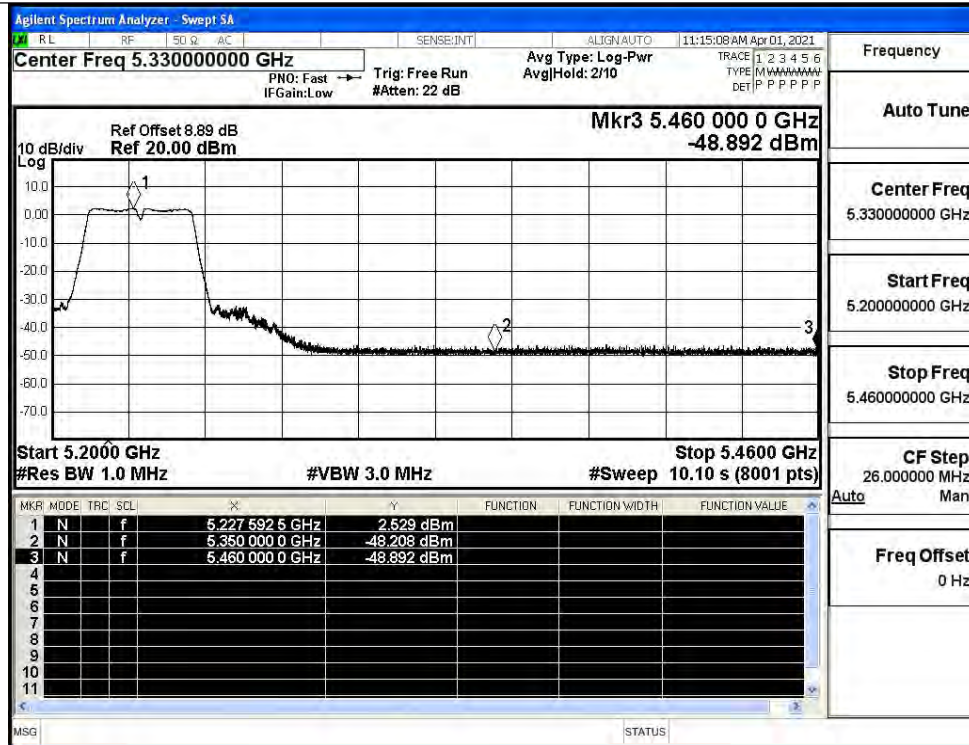
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



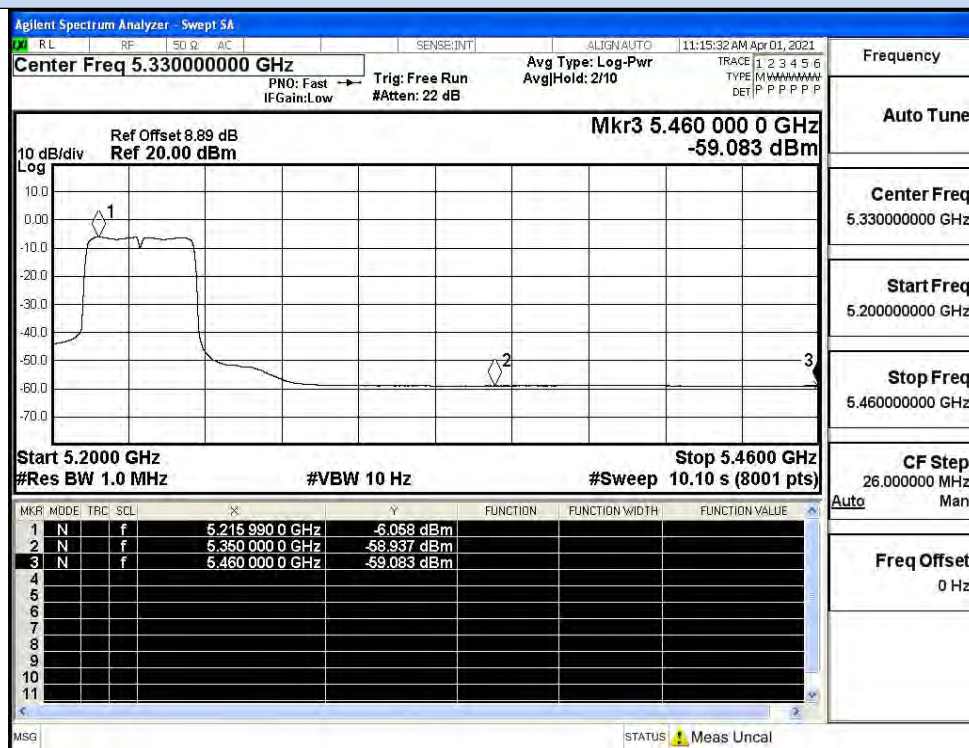
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



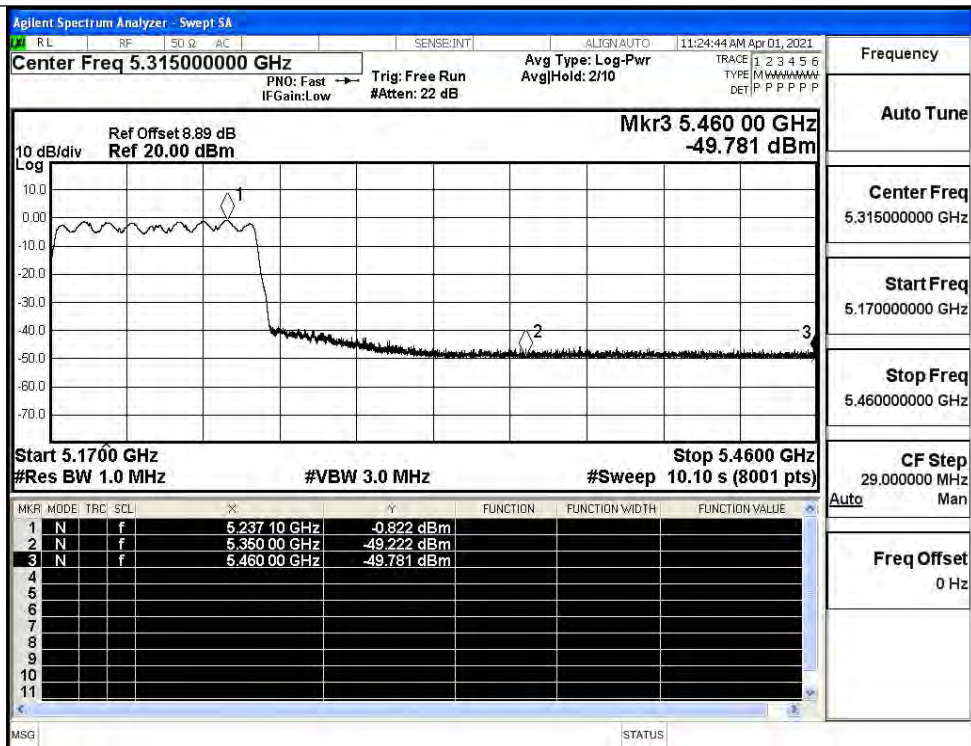
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak