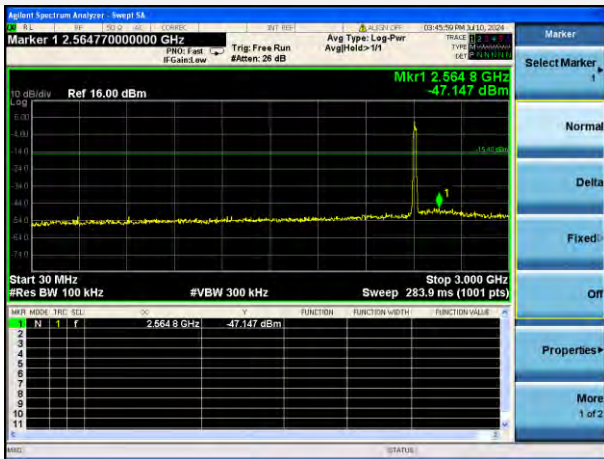


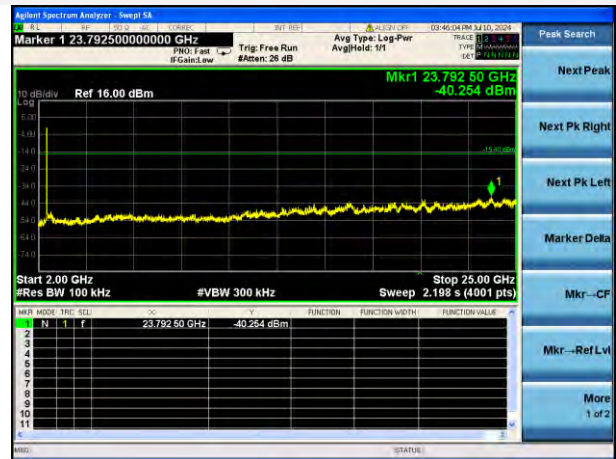
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



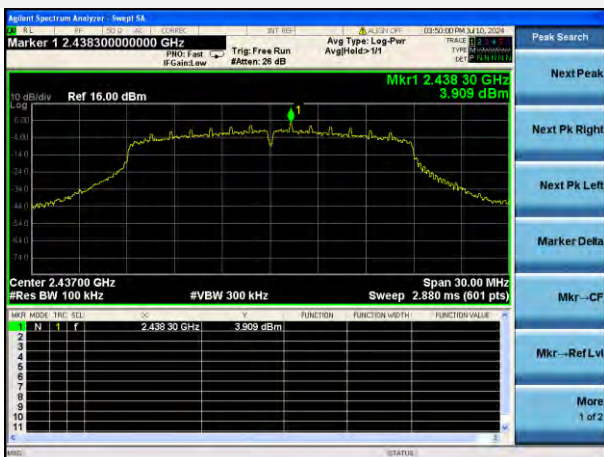
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



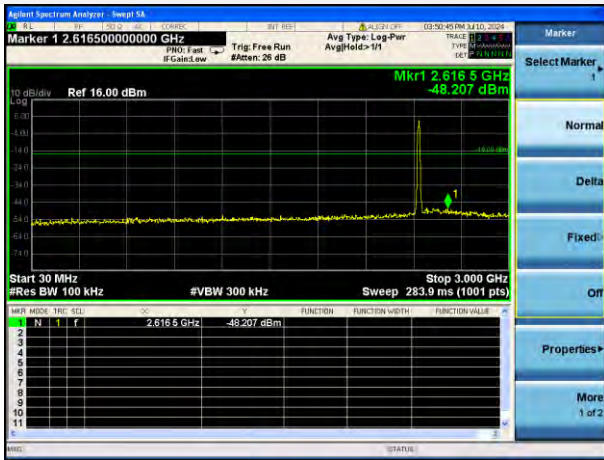
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



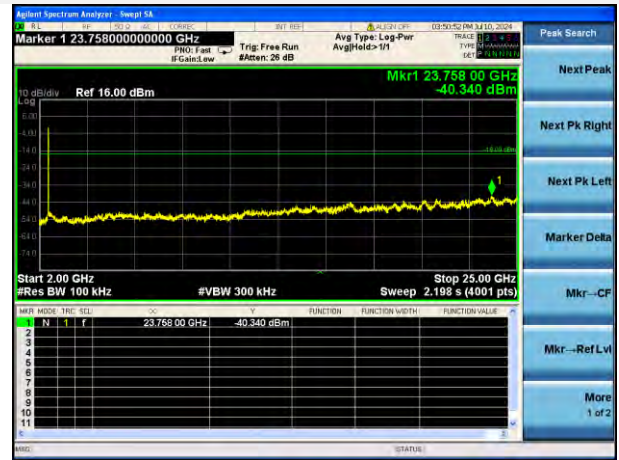
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



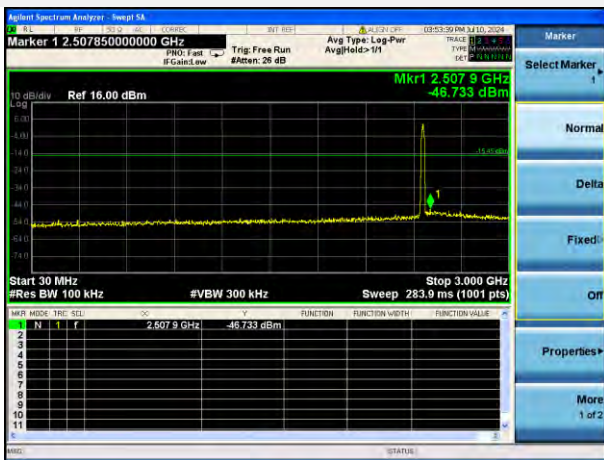
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



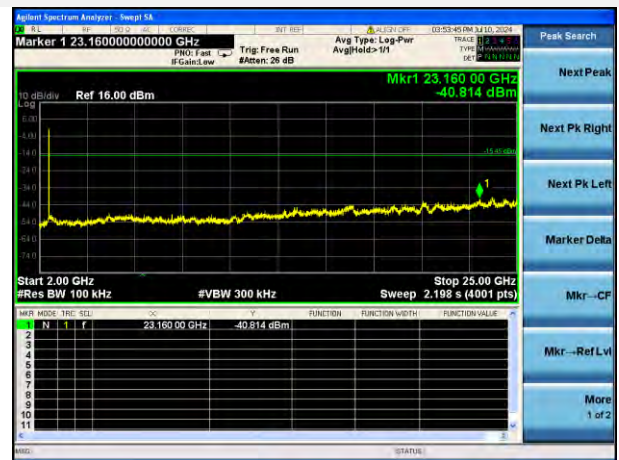
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



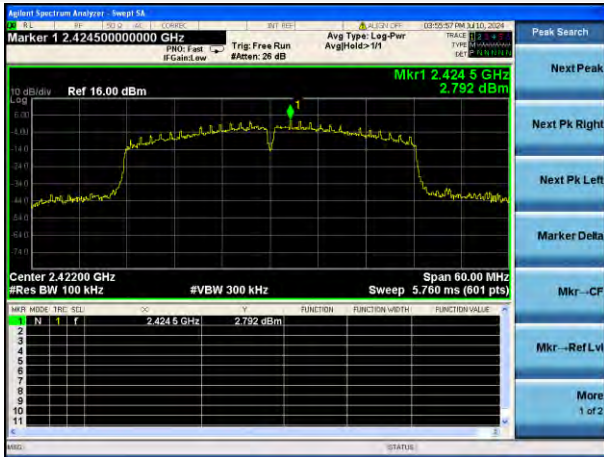
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



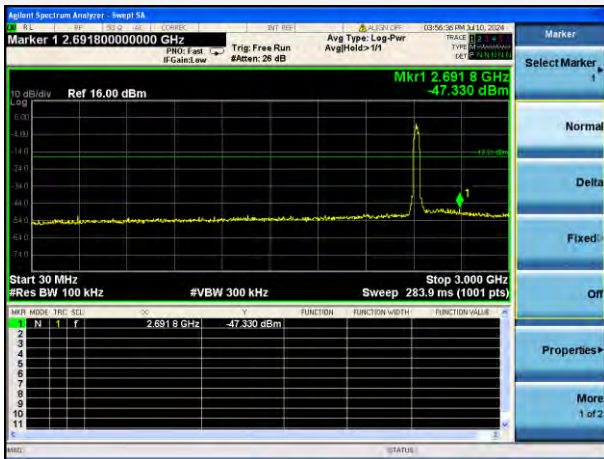
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



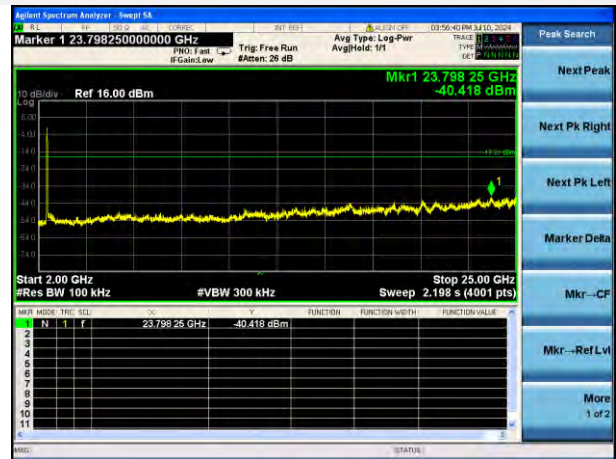
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



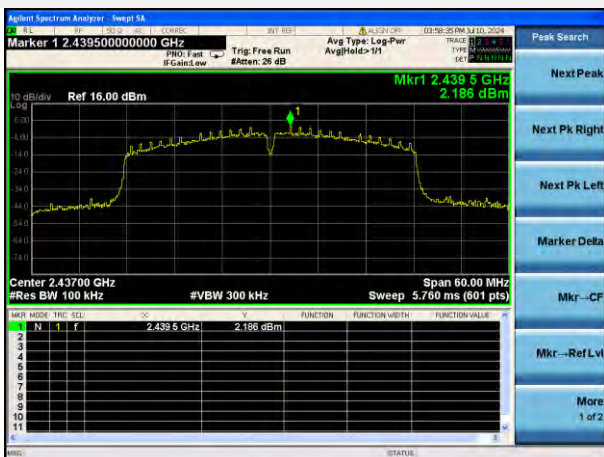
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



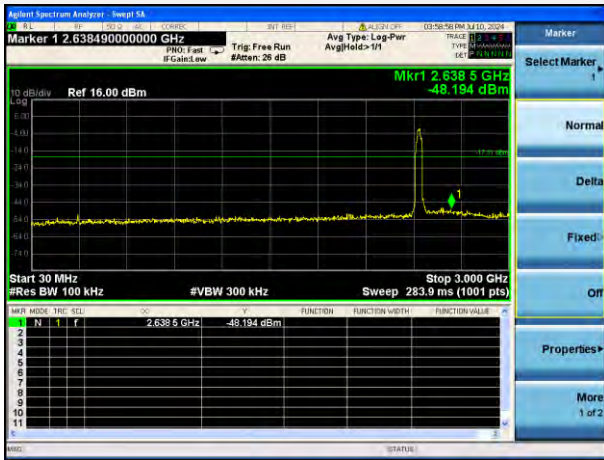
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



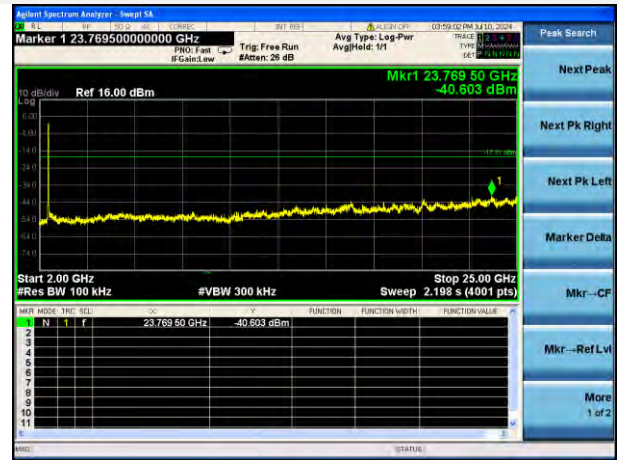
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



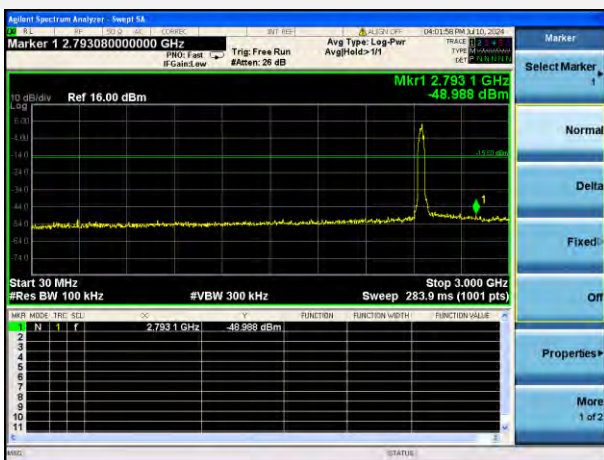
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



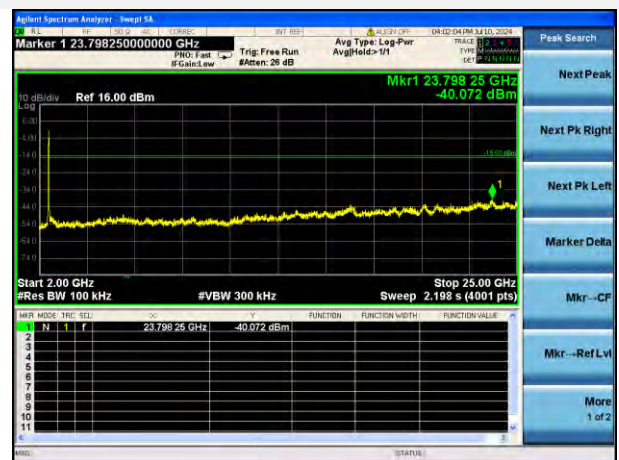
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

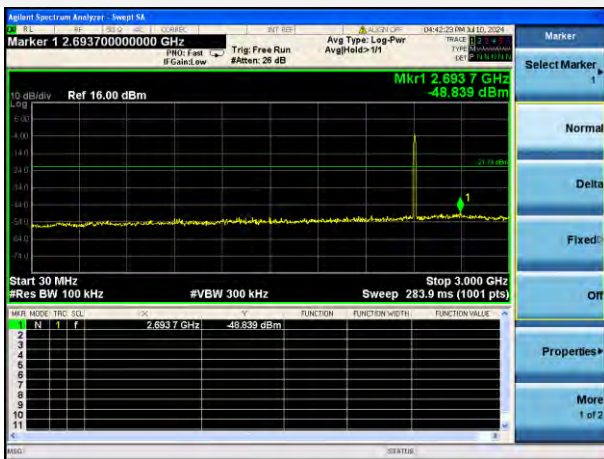


MIMO-Main Antenna

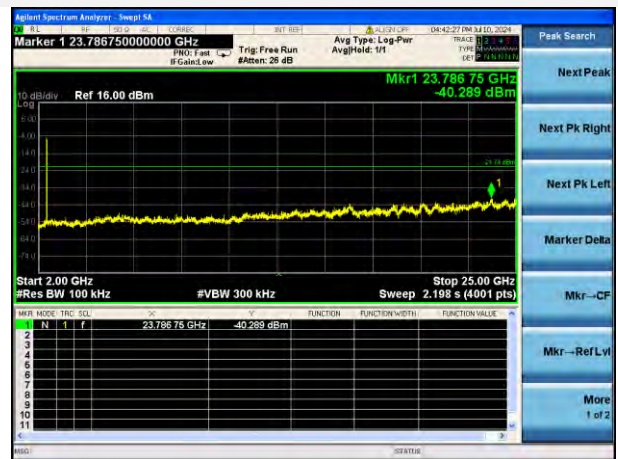
802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



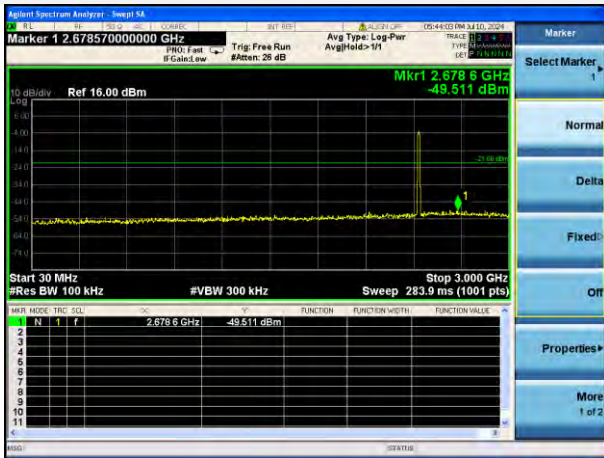
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



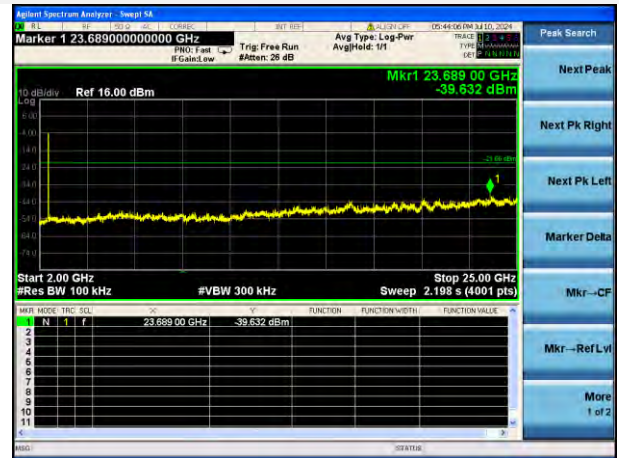
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



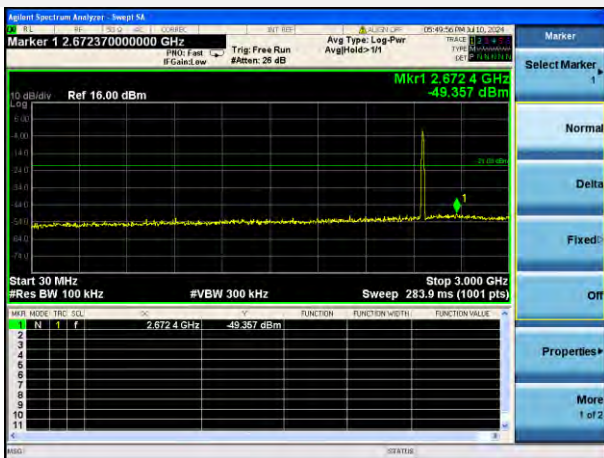
802.11b MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



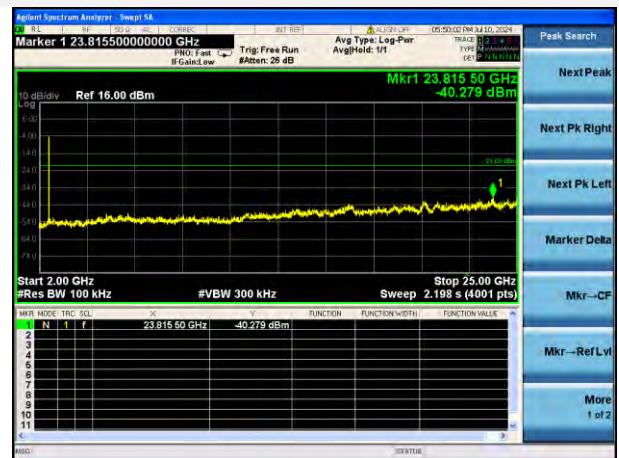
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



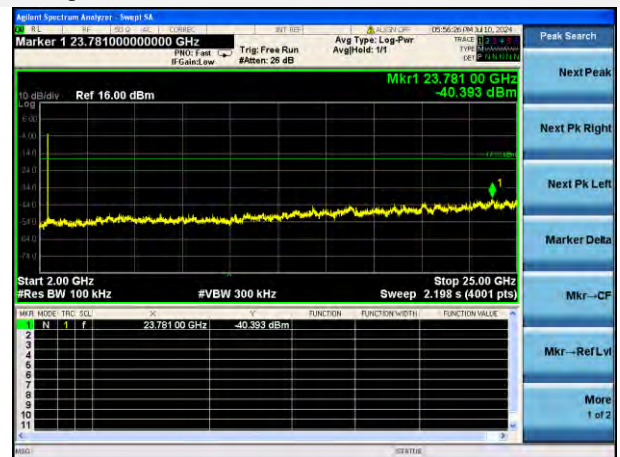
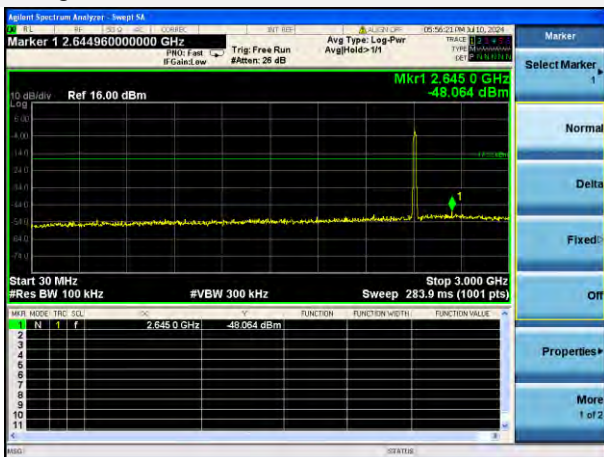
802.11b HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11g LOW CHANNEL CARRIER LEVEL



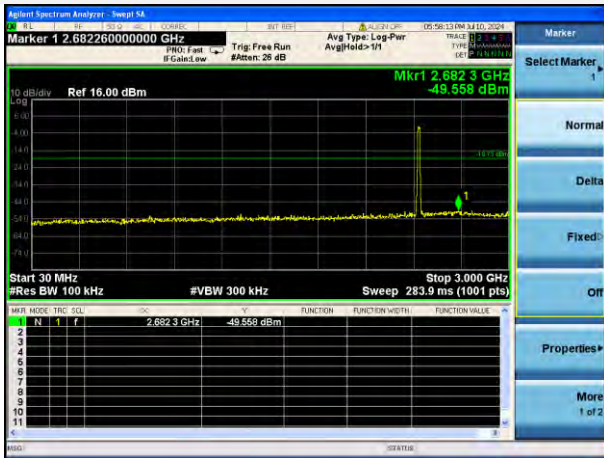
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz      802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



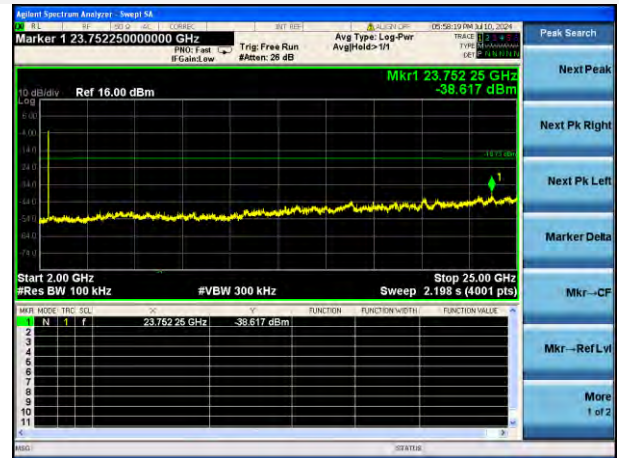
802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



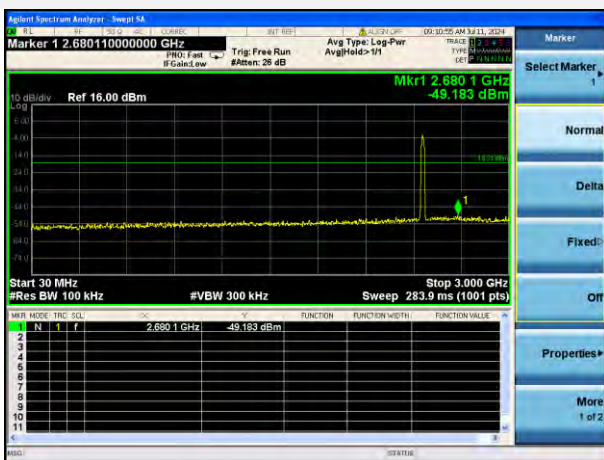
802.11g MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



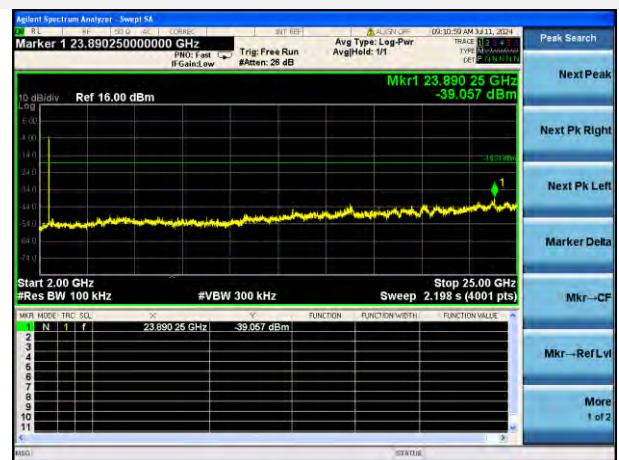
802.11g HIGH CHANNEL CARRIER LEVEL



802.11g HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

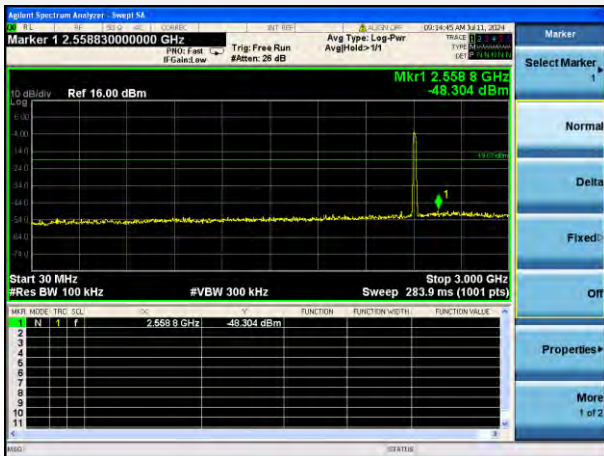




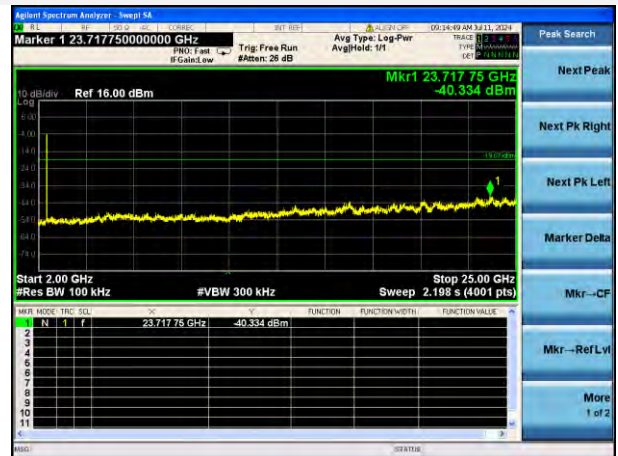
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



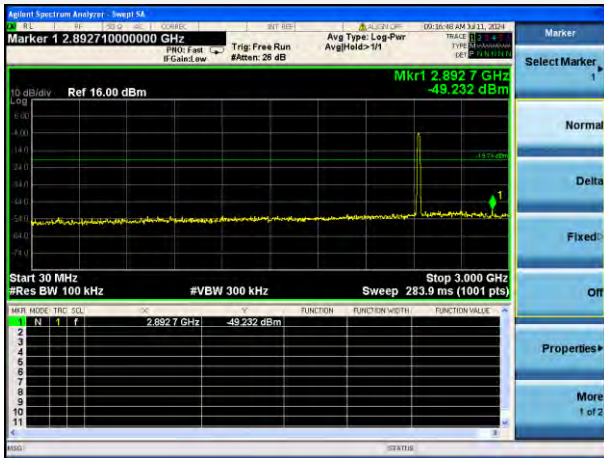
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



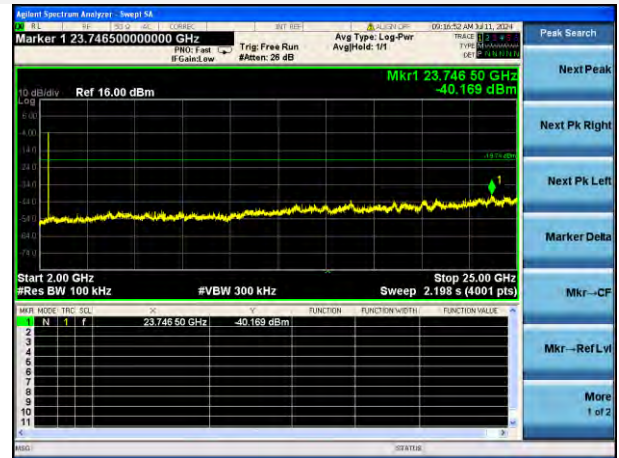
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



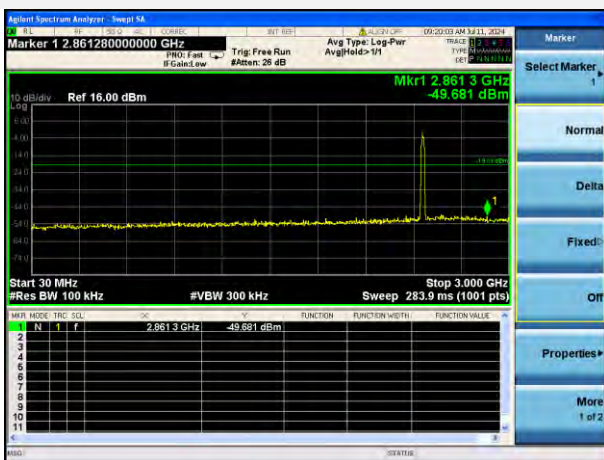
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



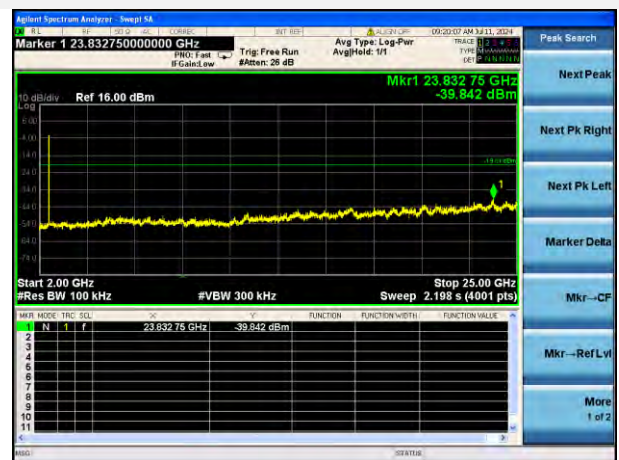
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



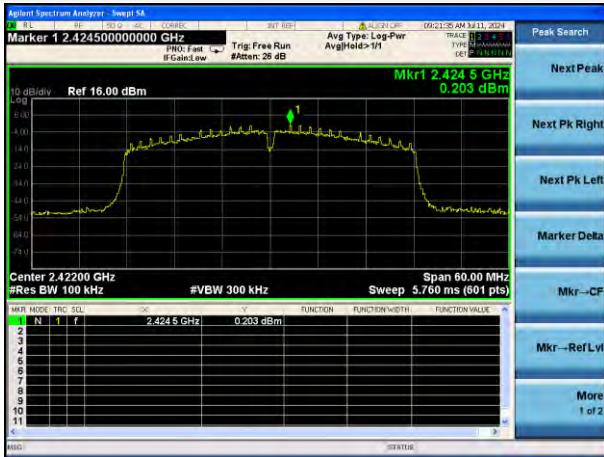
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



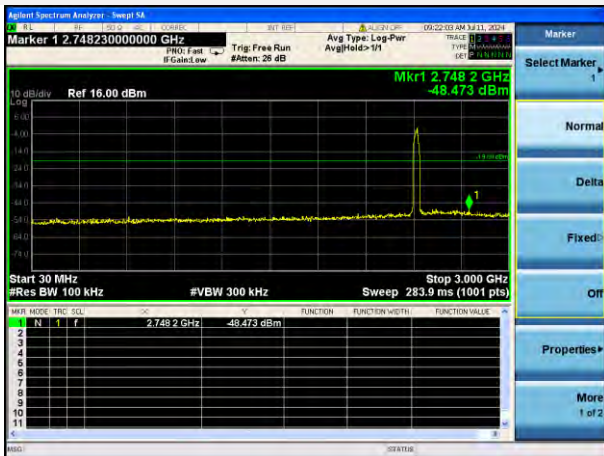
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



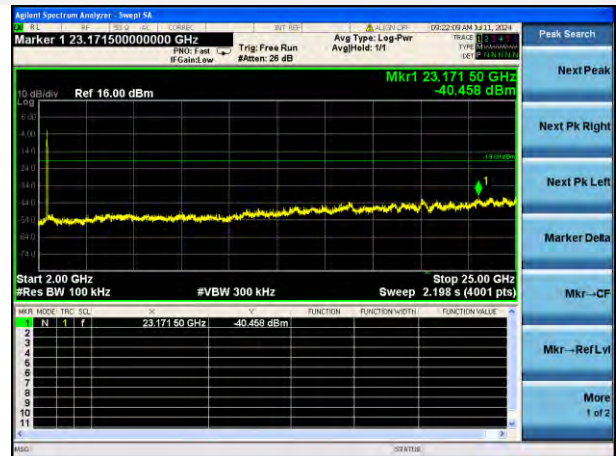
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



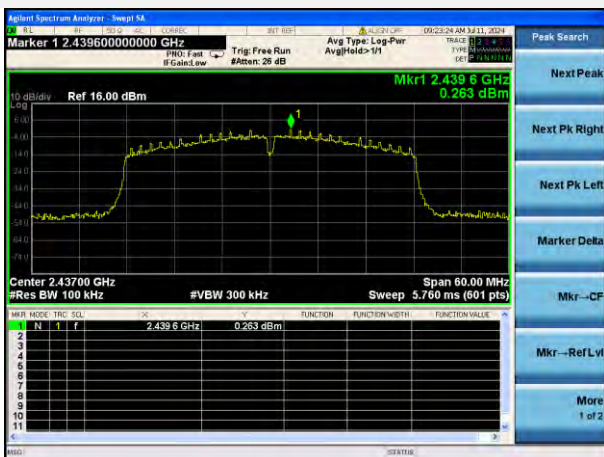
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



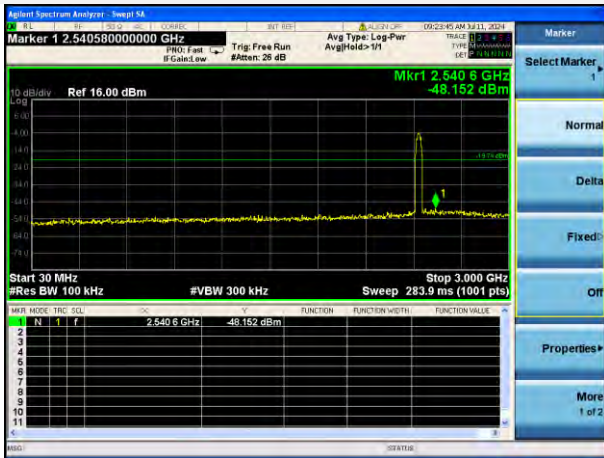
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



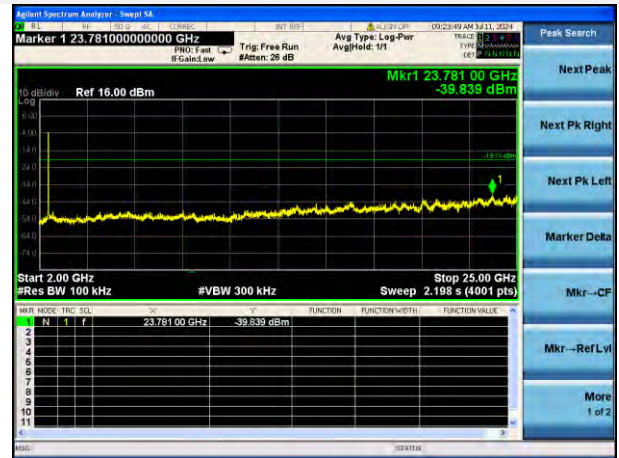
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



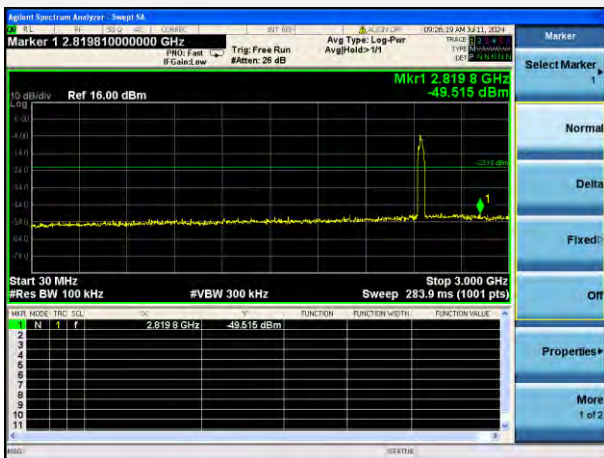
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



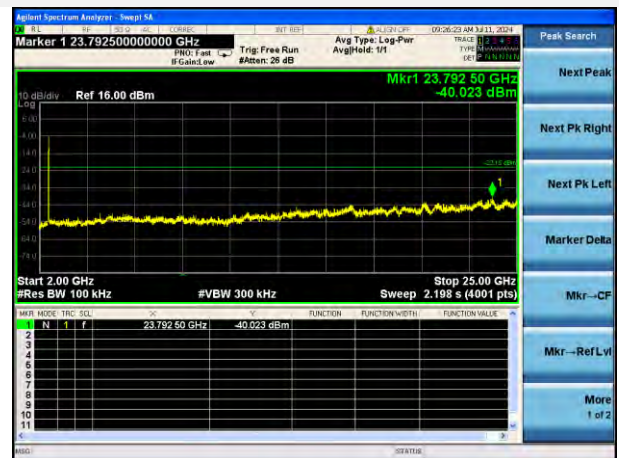
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

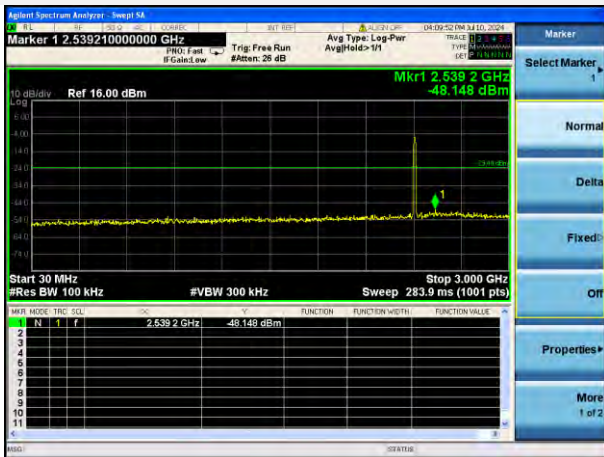


MIMO-Aux. Antenna

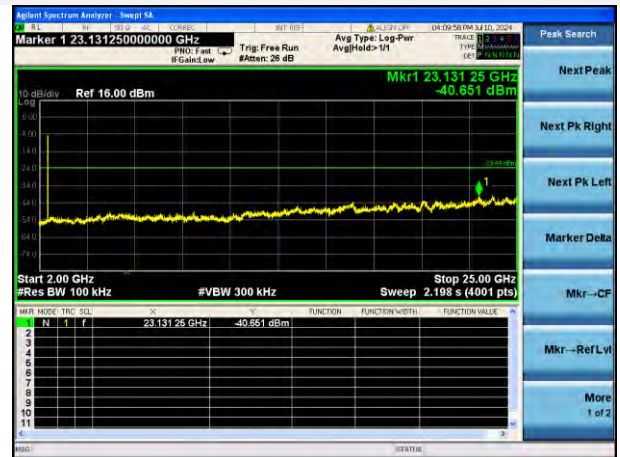
802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



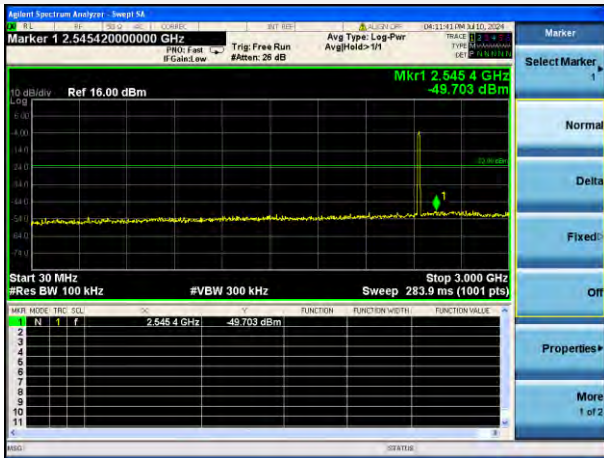
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



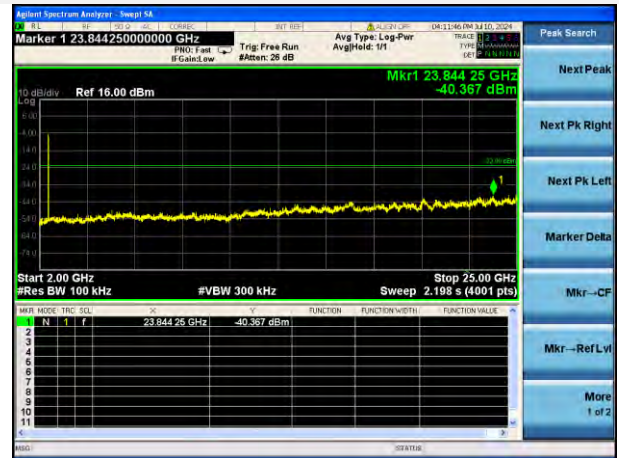
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



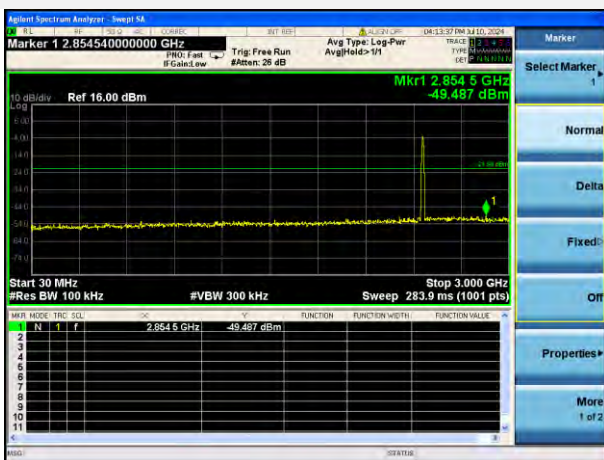
802.11b MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



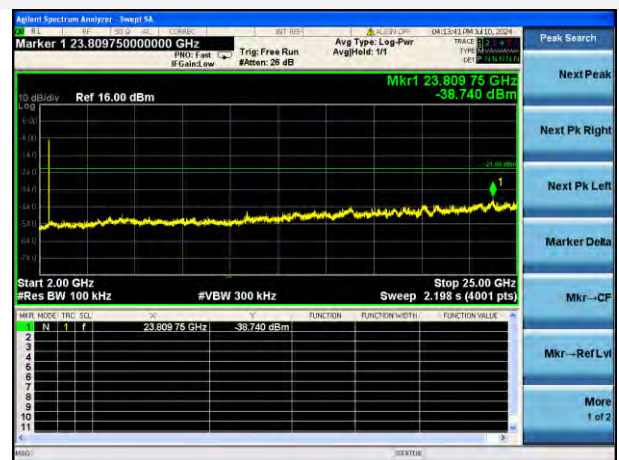
802.11b HIGH CHANNEL CARRIER LEVEL



802.11b HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



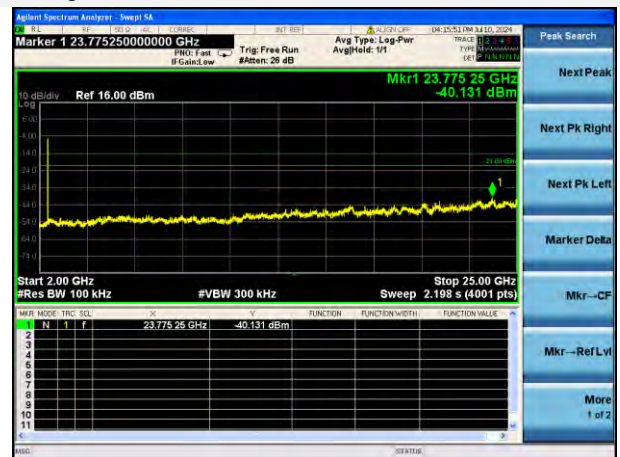
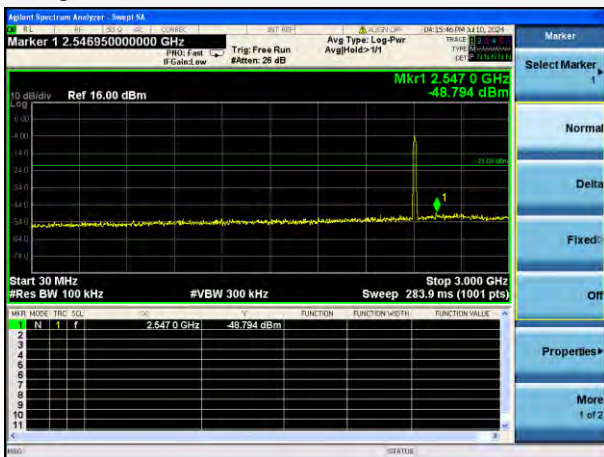
802.11b HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



### 802.11g LOW CHANNEL CARRIER LEVEL



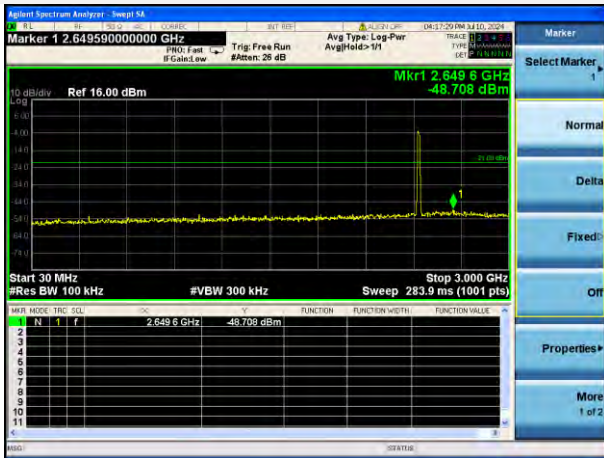
### 802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz      802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



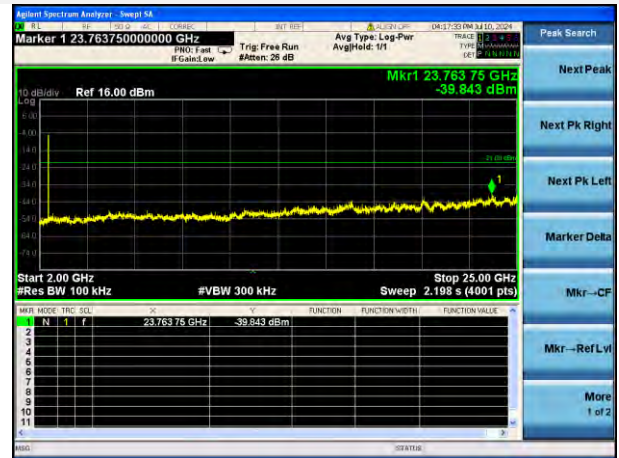
### 802.11g MIDDLE CHANNEL CARRIER LEVEL



802.11g MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



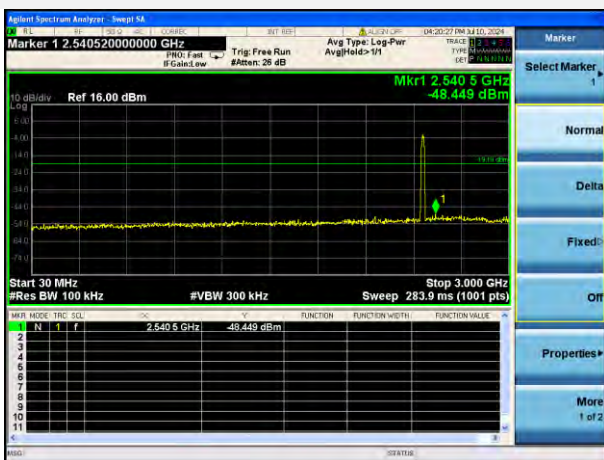
802.11g MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



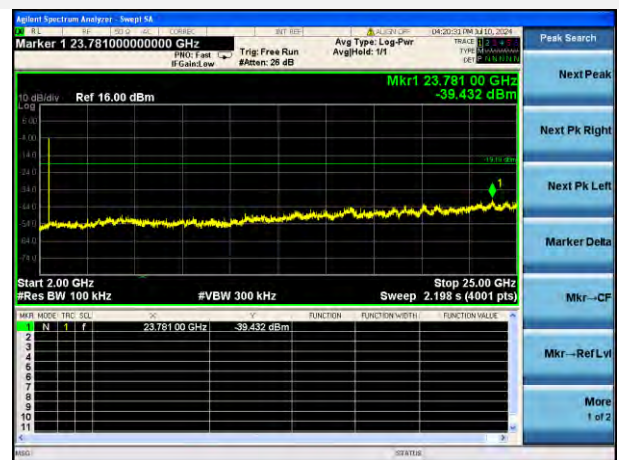
802.11g HIGH CHANNEL CARRIER LEVEL



802.11g HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

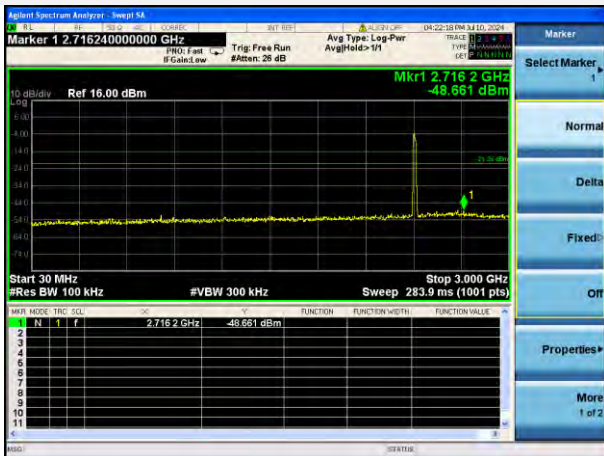




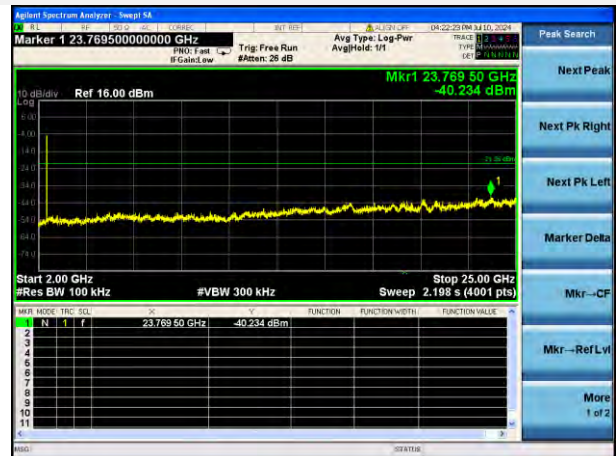
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



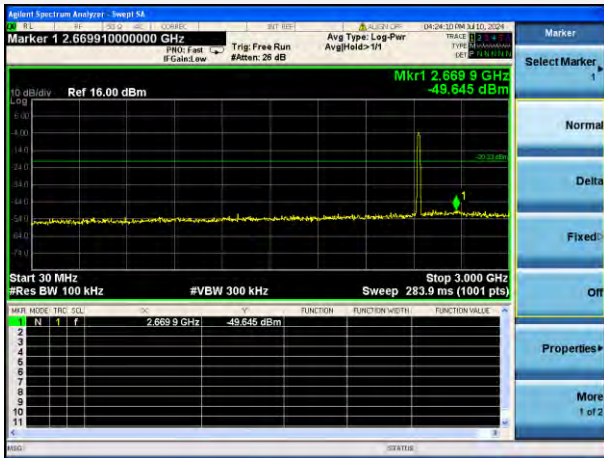
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



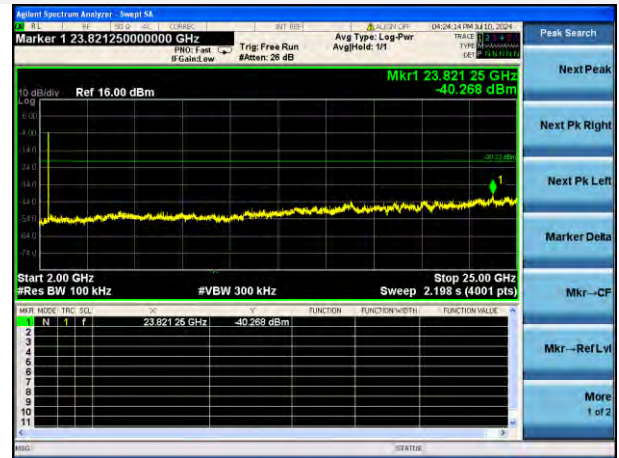
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



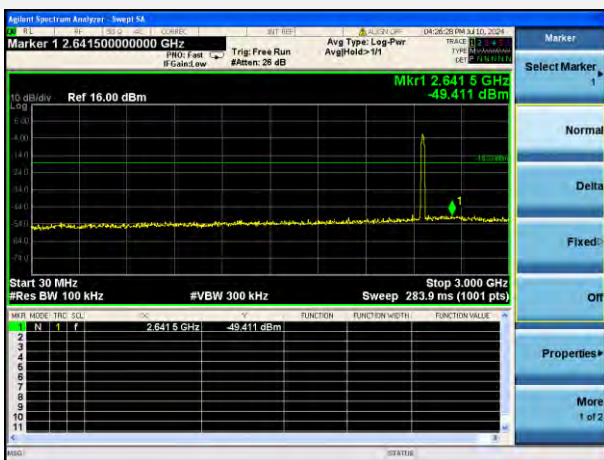
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



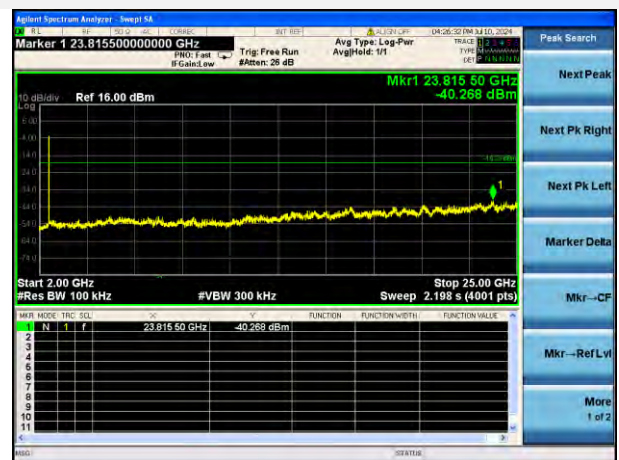
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



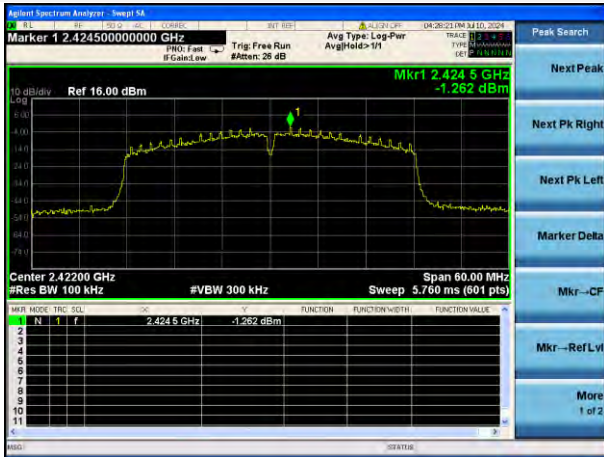
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



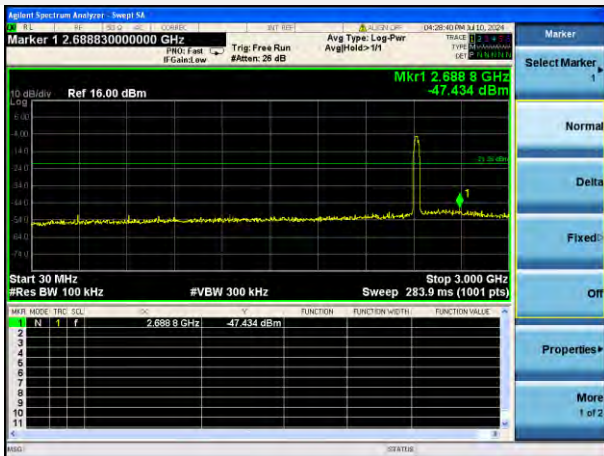
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



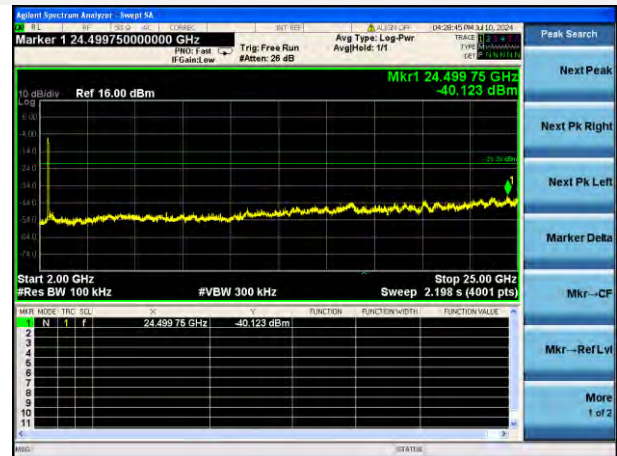
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



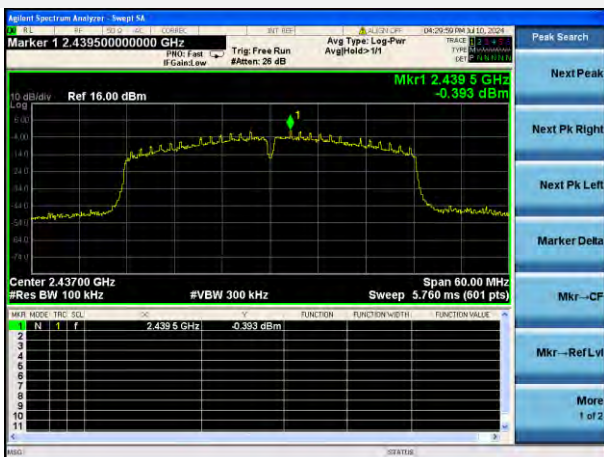
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



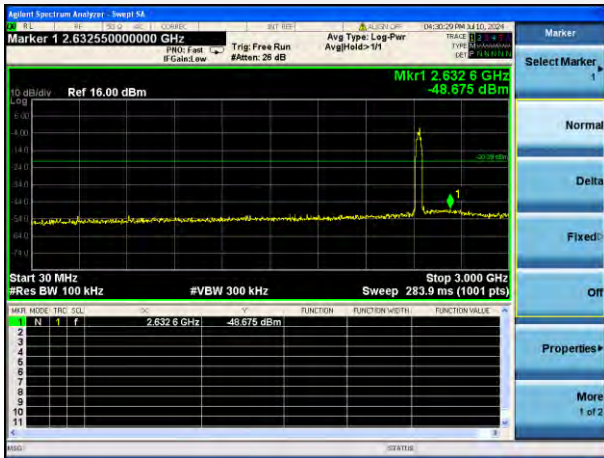
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



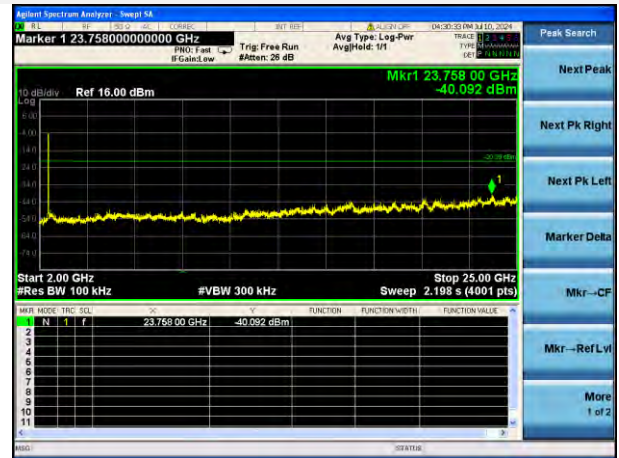
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



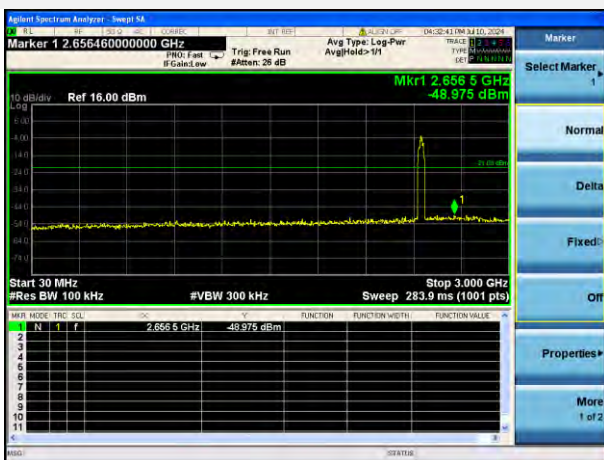
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



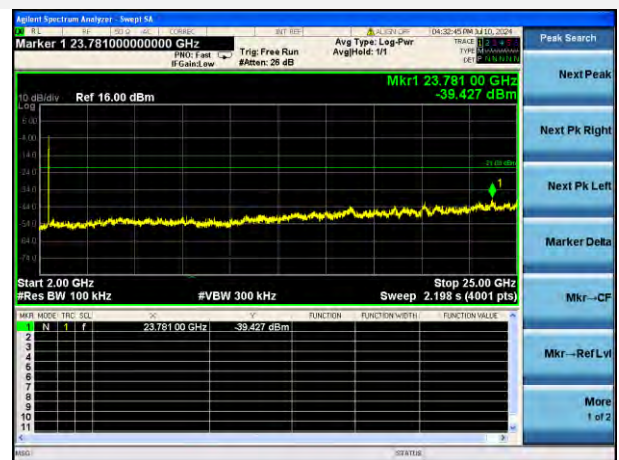
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



## A.4 Band Edge (Authorized-band band-edge)

Note: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

### Test Data

#### SISO-Main Antenna

802.11b Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -47.40                                       | 1.74          | -18.26                     | Pass    |
| High Channel | -47.35                                       | 0.42          | -19.58                     | Pass    |

802.11g Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -37.24                                       | 4.44          | -15.56                     | Pass    |
| High Channel | -47.33                                       | 3.10          | -16.90                     | Pass    |

802.11n-20 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -36.29                                       | 3.77          | -16.23                     | Pass    |
| High Channel | -47.80                                       | 3.29          | -16.71                     | Pass    |

802.11n-40 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -41.49                                       | 2.31          | -17.69                     | Pass    |
| High Channel | -46.24                                       | 0.40          | -19.60                     | Pass    |

SISO-Aux. Antenna

## 802.11b Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -47.87                                       | 1.17          | -18.83                     | Pass    |
| High Channel | -48.72                                       | 1.45          | -18.55                     | Pass    |

## 802.11g Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -37.56                                       | 3.65          | -16.35                     | Pass    |
| High Channel | -44.97                                       | 4.67          | -15.33                     | Pass    |

## 802.11n-20 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -33.16                                       | 4.60          | -15.40                     | Pass    |
| High Channel | -46.23                                       | 4.55          | -15.45                     | Pass    |

## 802.11n-40 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -37.01                                       | 2.79          | -17.21                     | Pass    |
| High Channel | -37.71                                       | 4.50          | -15.50                     | Pass    |

MIMO-Main Antenna

## 802.11b Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -47.79                                       | -1.74         | -21.74                     | Pass    |
| High Channel | -49.04                                       | -1.08         | -21.08                     | Pass    |

## 802.11g Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -38.65                                       | 2.48          | -17.52                     | Pass    |
| High Channel | -48.24                                       | 1.69          | -18.31                     | Pass    |

## 802.11n-20 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -39.78                                       | 0.93          | -19.07                     | Pass    |
| High Channel | -48.00                                       | 0.19          | -19.81                     | Pass    |

## 802.11n-40 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -45.85                                       | 0.20          | -19.80                     | Pass    |
| High Channel | -47.93                                       | -2.15         | -22.15                     | Pass    |

MIMO-Aux. Antenna

## 802.11b Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -48.27                                       | -3.48         | -23.48                     | Pass    |
| High Channel | -47.38                                       | -1.98         | -21.98                     | Pass    |

## 802.11g Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -43.12                                       | -1.00         | -21.00                     | Pass    |
| High Channel | -48.27                                       | 0.81          | -19.19                     | Pass    |

## 802.11n-20 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -40.71                                       | -1.26         | -21.26                     | Pass    |
| High Channel | -48.31                                       | 1.74          | -18.26                     | Pass    |

## 802.11n-40 MHz Mode:

| Channel      | Measured Max.<br>Band Edge<br>Emission (dBm) | Limit (dBm)   |                            | Verdict |
|--------------|--|---------------|----------------------------|---------|
|              |  | Carrier Level | Calculated 20<br>dBc Limit |         |
| Low Channel  | -46.59                                       | -1.26         | -21.26                     | Pass    |
| High Channel | -47.80                                       | -1.08         | -21.08                     | Pass    |



Test Plots  
SISO-Main Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



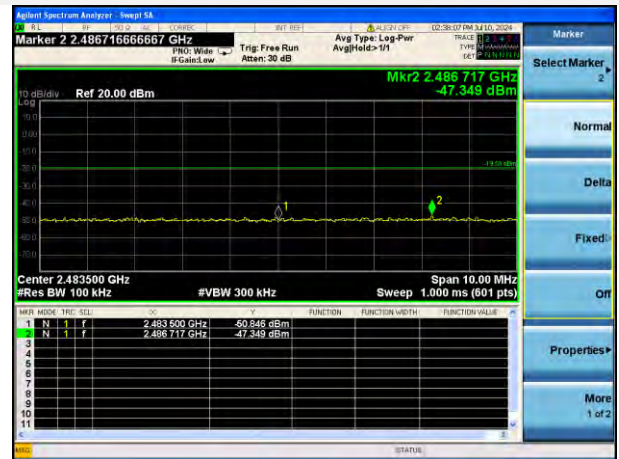
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



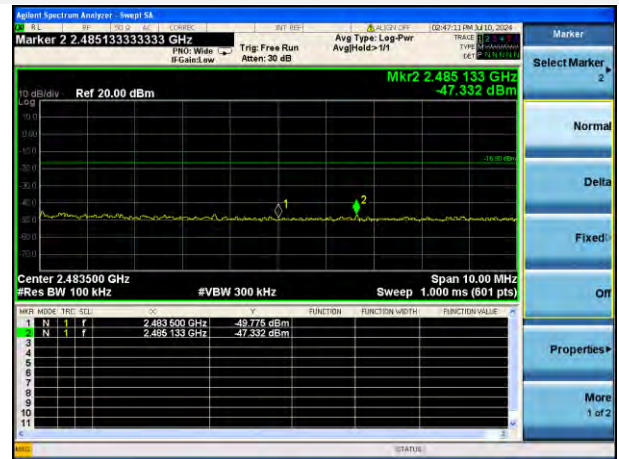
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



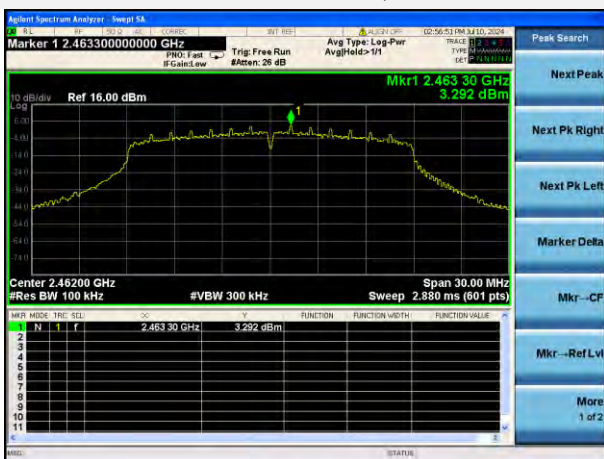
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



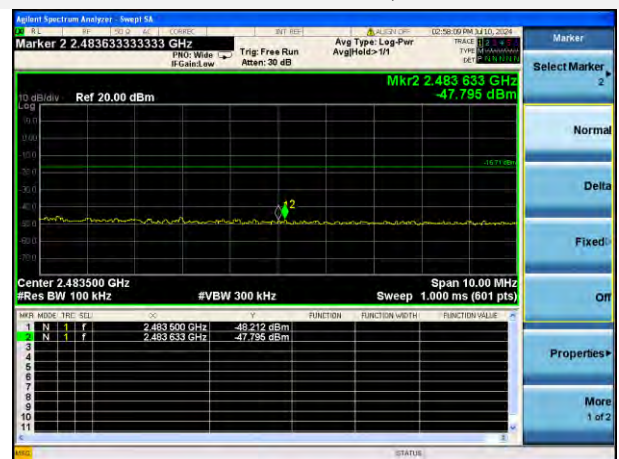
802.11n-20 MHz LOW CHANNEL, BAND EDGE



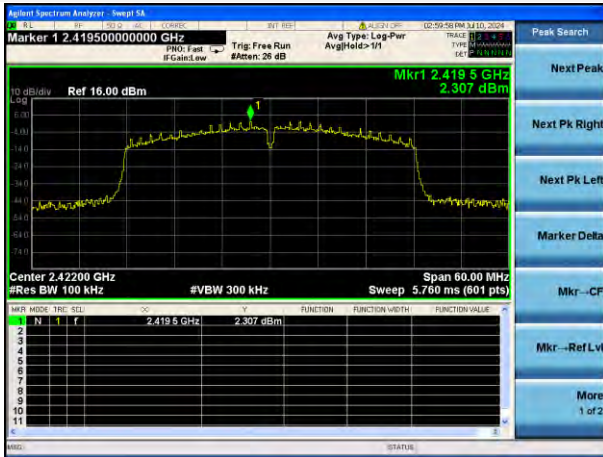
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



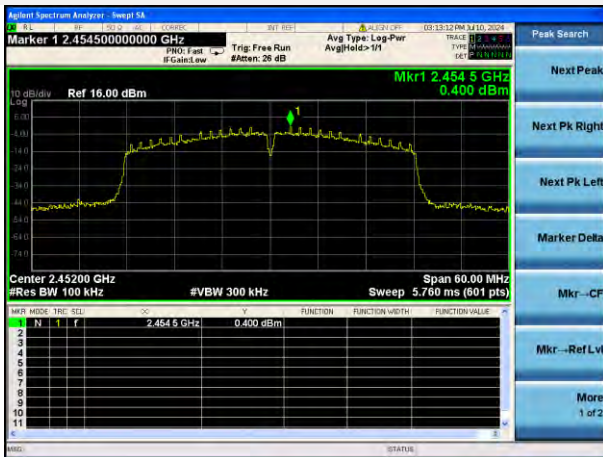
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



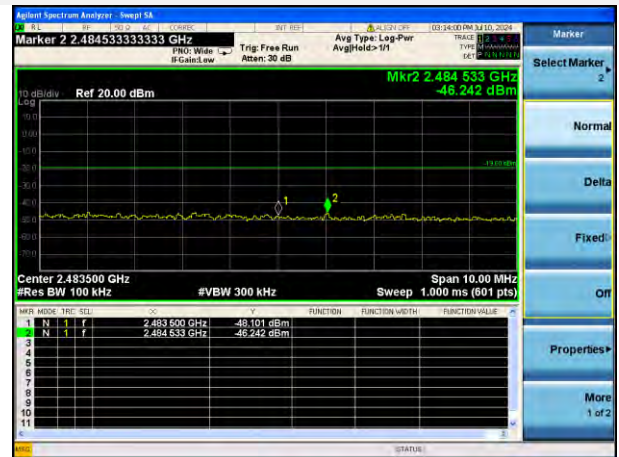
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



SISO-Aux. Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



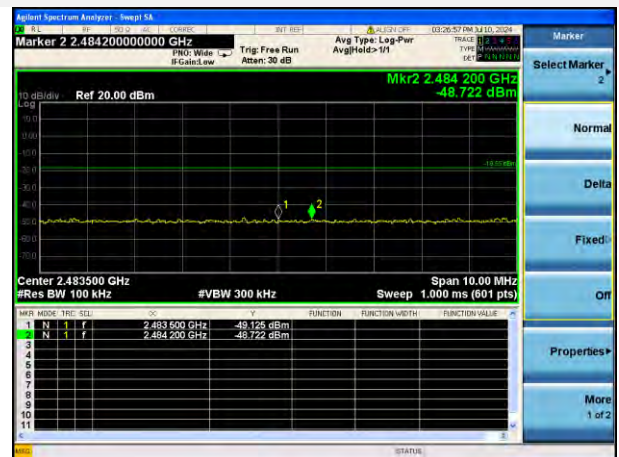
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



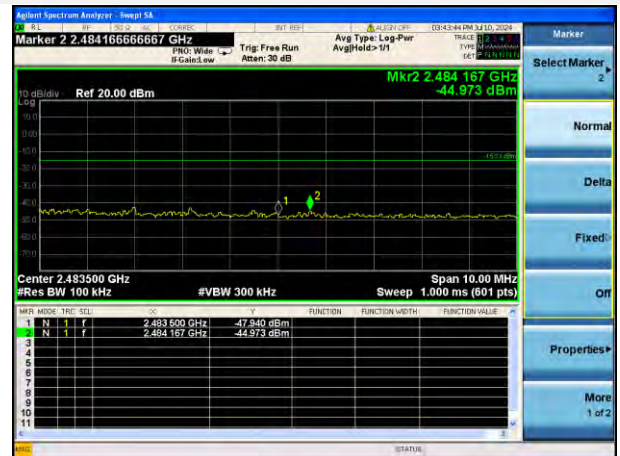
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



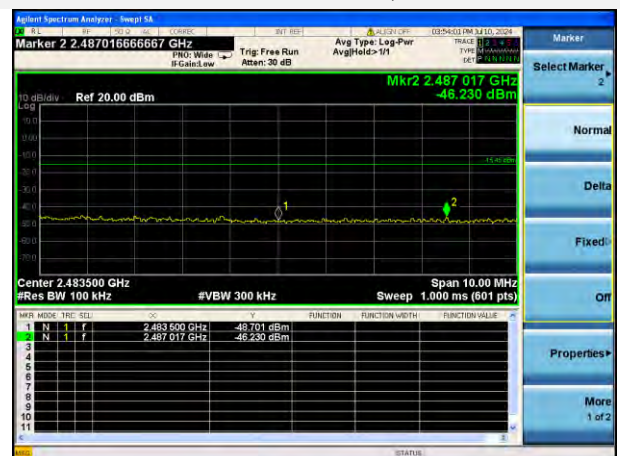
802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



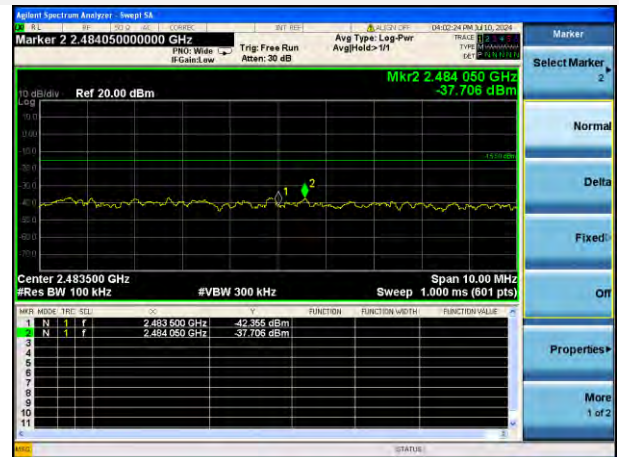
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



MIMO-Main Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



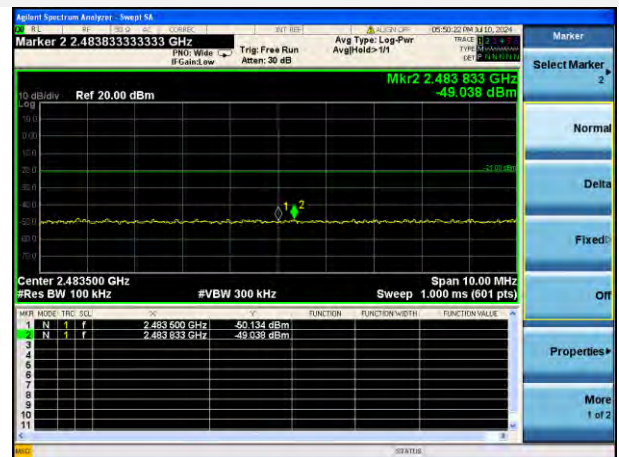
802.11b LOW CHANNEL, BAND EDGE



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



802.11g LOW CHANNEL, CARRIER LEVEL



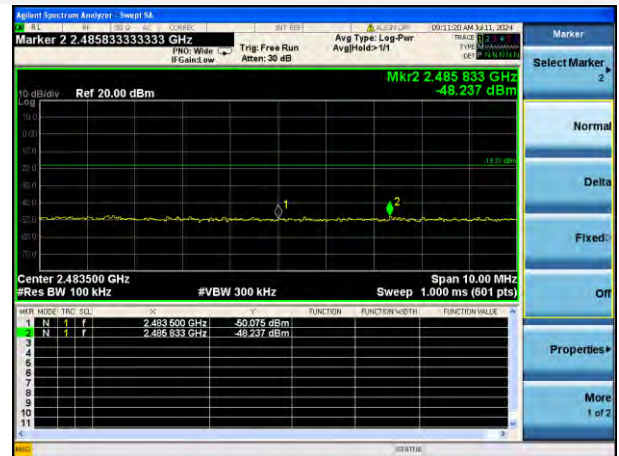
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



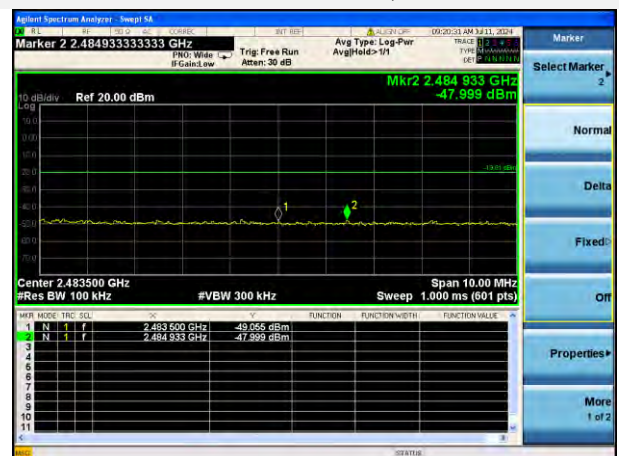
802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

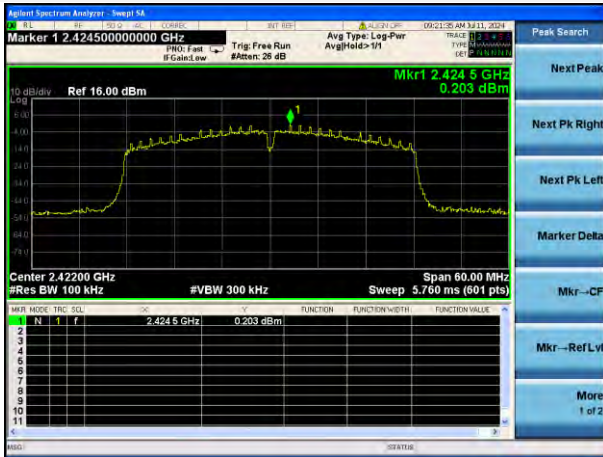


802.11n-20 MHz HIGH CHANNEL, BAND EDGE





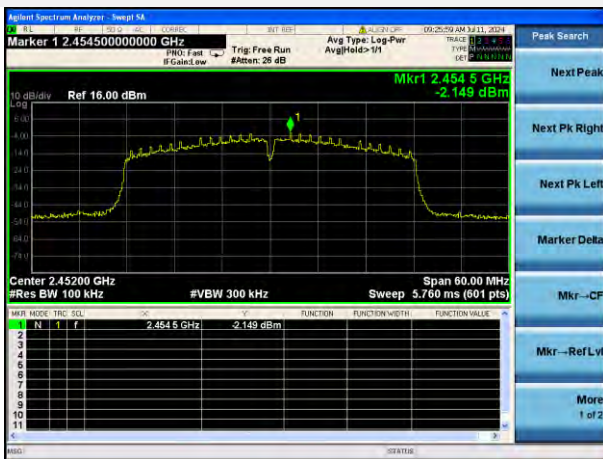
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



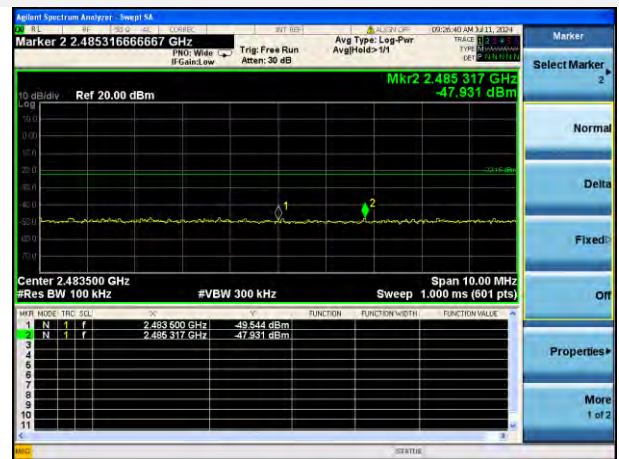
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



MIMO-Aux. Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



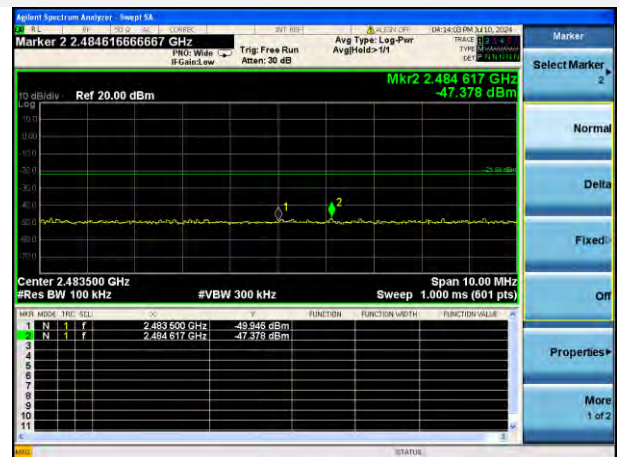
802.11b LOW CHANNEL, BAND EDGE



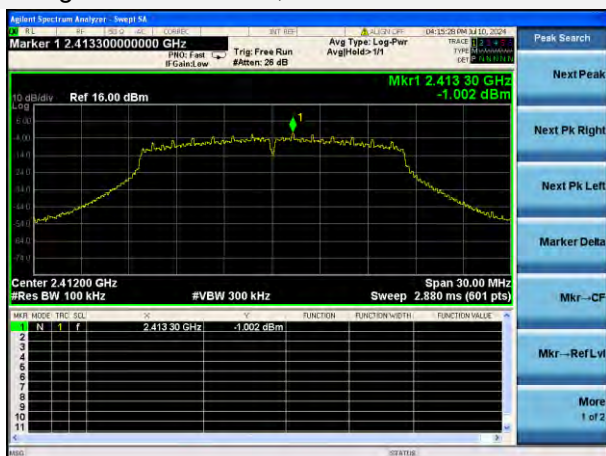
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



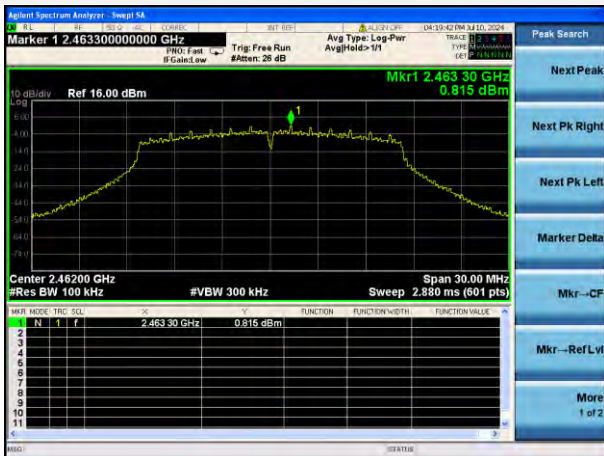
802.11g LOW CHANNEL, CARRIER LEVEL



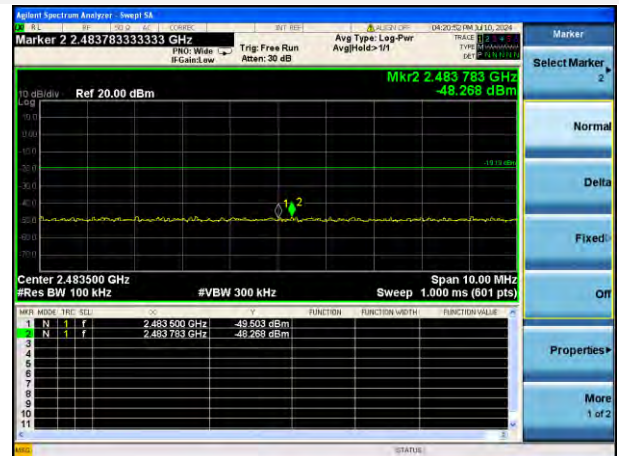
802.11g LOW CHANNEL, BAND EDGE



802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



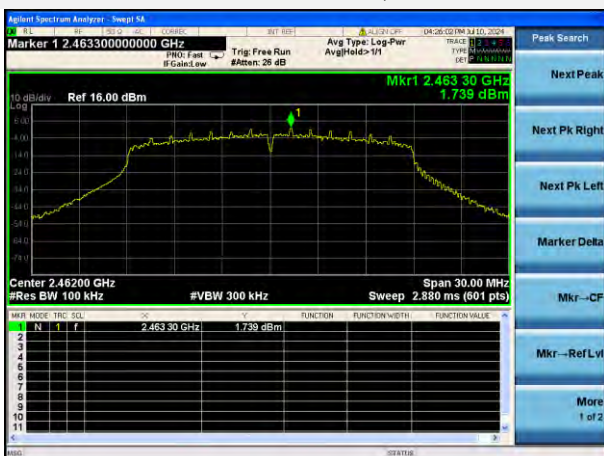
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE

