

## Appendix C

**Product Name: PANEL PC**

**Trade Mark: Qbic**

**Test Model: TD-1060 Slim**

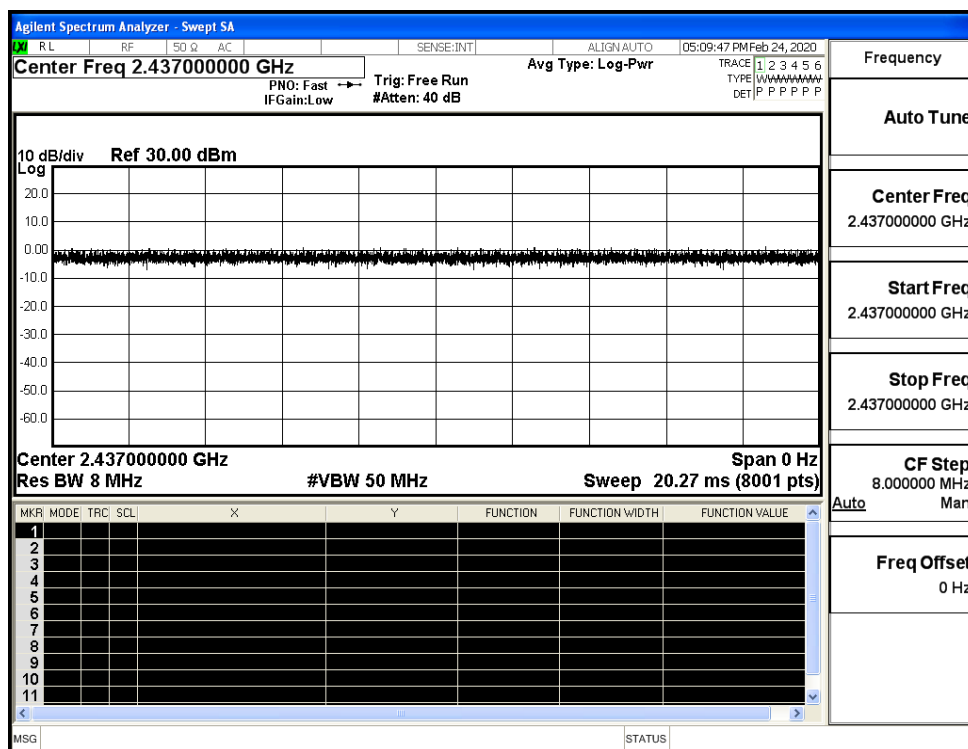
### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5°C    |
| Relative Humidity: | 51.8%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Li Huan   |
| Supervised by:     | Tom.Liu   |

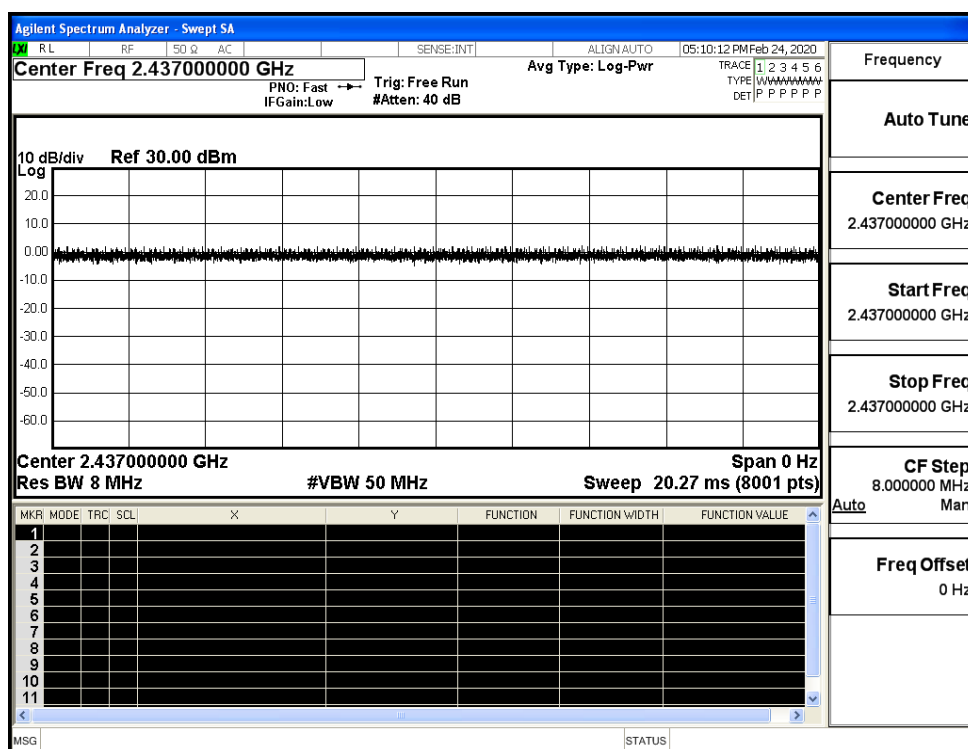
### C.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| 11B       | 2437         | Ant1 | 100           | PASS    |
| 11G       | 2437         | Ant1 | 100           | PASS    |
| 11N20SISO | 2437         | Ant1 | 100           | PASS    |

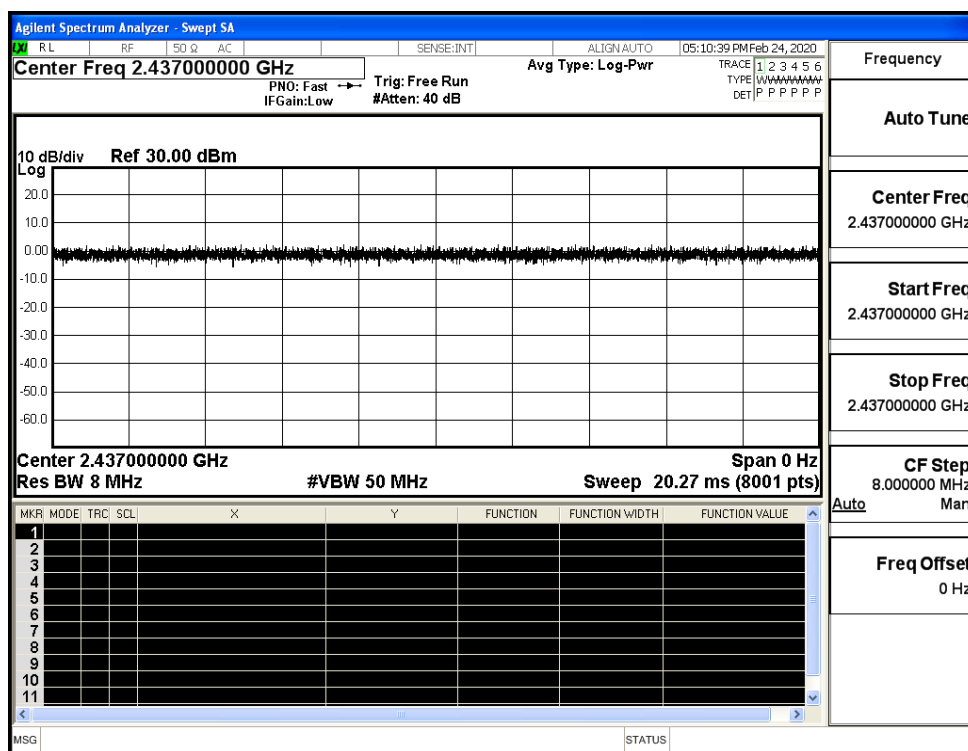
## Duty Cycle\_11B\_2437\_Ant1



## Duty Cycle\_11G\_2437\_Ant1



## Duty Cycle\_11N20SISO\_2437\_Ant1



**C.2 Maximum Conducted Output Power**

| Mode      | Channel | Meas.Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|------------------|-------------|---------|
| 11B       | LCH     | 7.45             | 30          | PASS    |
|           | MCH     | 7.13             | 30          | PASS    |
|           | HCH     | 9.04             | 30          | PASS    |
| 11G       | LCH     | 10.49            | 30          | PASS    |
|           | MCH     | 8.07             | 30          | PASS    |
|           | HCH     | 7.9              | 30          | PASS    |
| 11N20SISO | LCH     | 10.43            | 30          | PASS    |
|           | MCH     | 10.82            | 30          | PASS    |
|           | HCH     | 10.1             | 30          | PASS    |

### C.3 Maximum Power Spectral Density

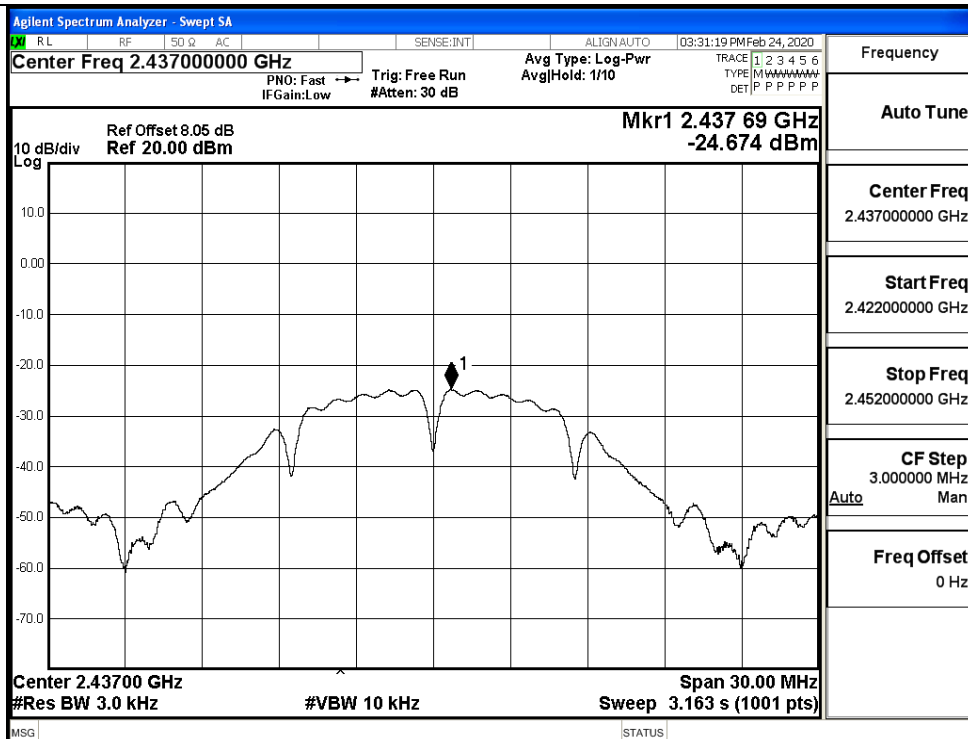
| Mode      | Channel | Meas.Level [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-----------|---------|-----------------------|------------------|---------|
| 11B       | LCH     | -23.087               | 8                | PASS    |
|           | MCH     | -24.674               | 8                | PASS    |
|           | HCH     | -22.256               | 8                | PASS    |
| 11G       | LCH     | -23.680               | 8                | PASS    |
|           | MCH     | -26.898               | 8                | PASS    |
|           | HCH     | -25.510               | 8                | PASS    |
| 11N20SISO | LCH     | -22.145               | 8                | PASS    |
|           | MCH     | -23.103               | 8                | PASS    |
|           | HCH     | -20.626               | 8                | PASS    |

#### Test Graphs

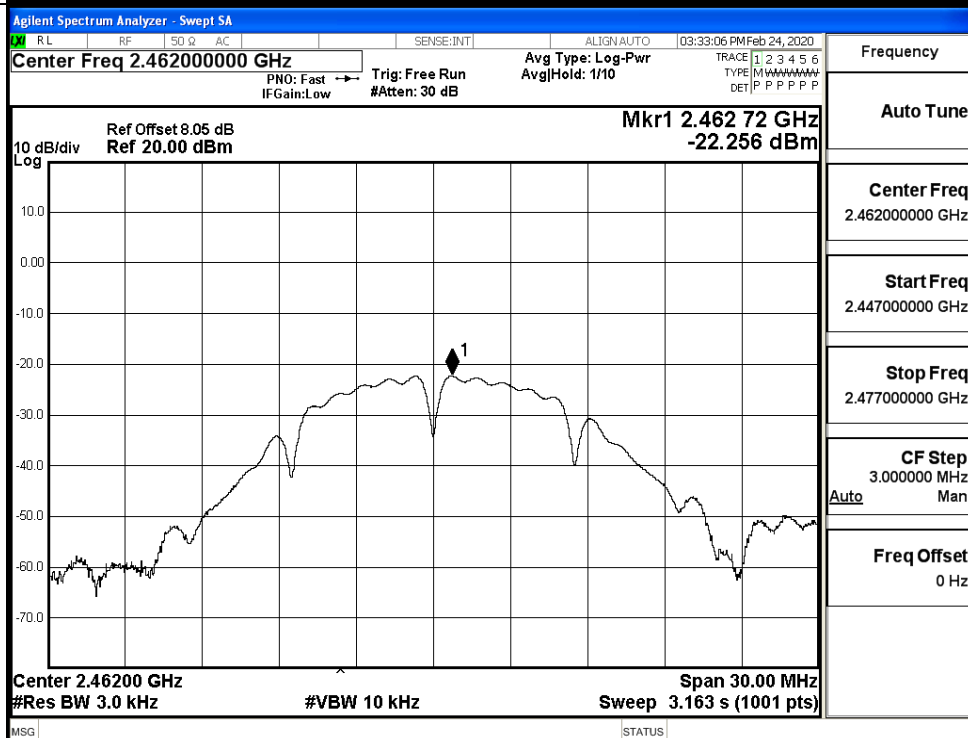
11B/LCH



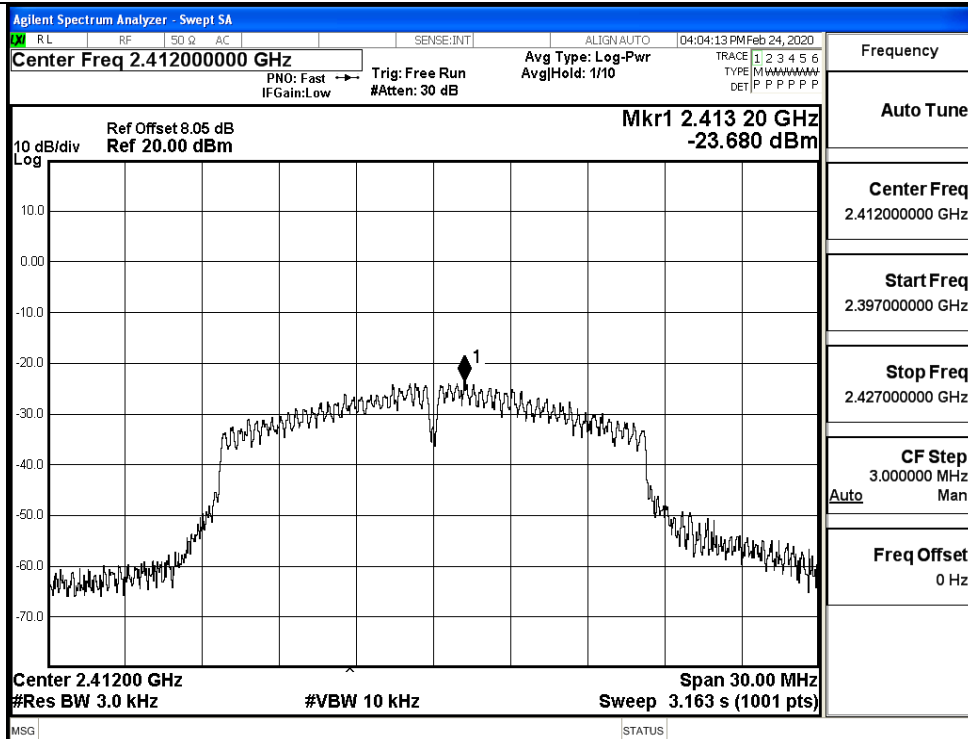
11B/MCH



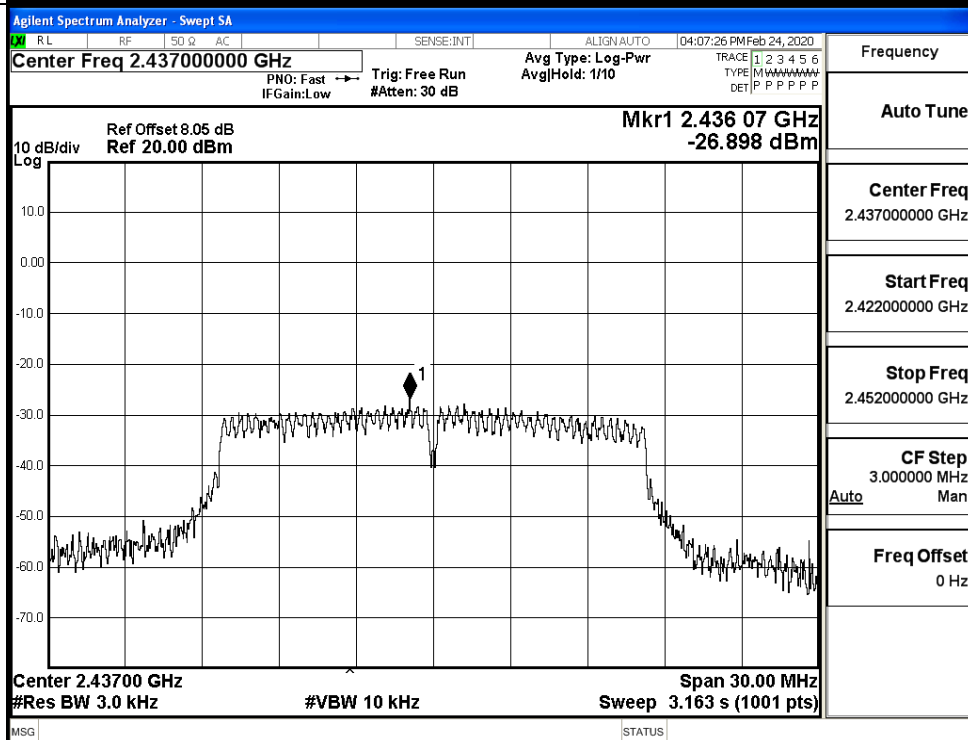
11B/HCH



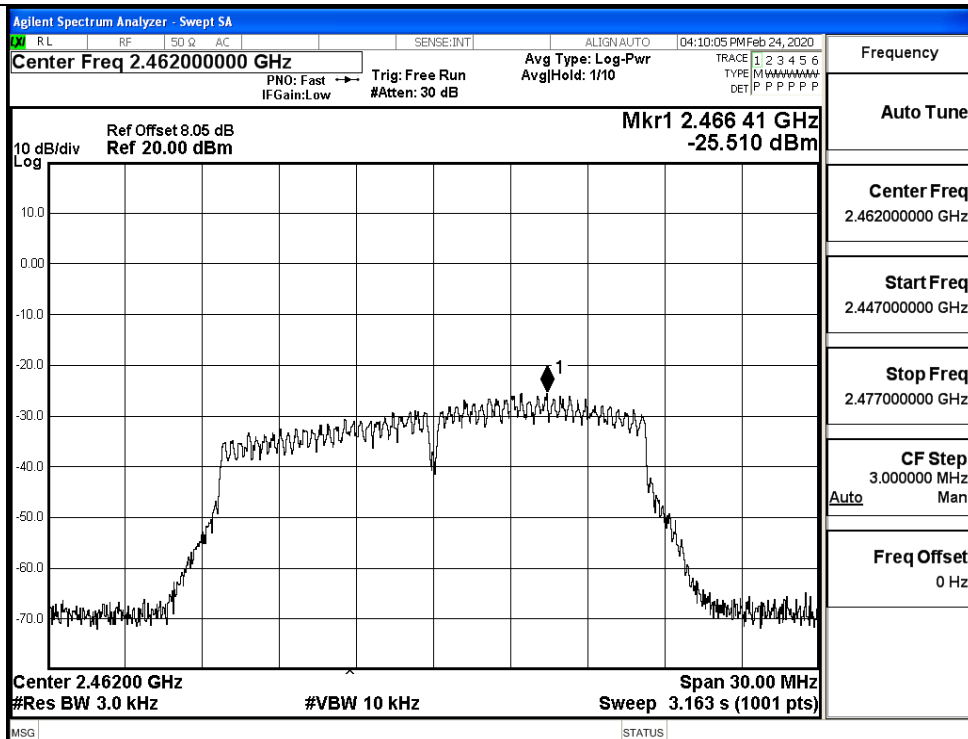
11G/LCH



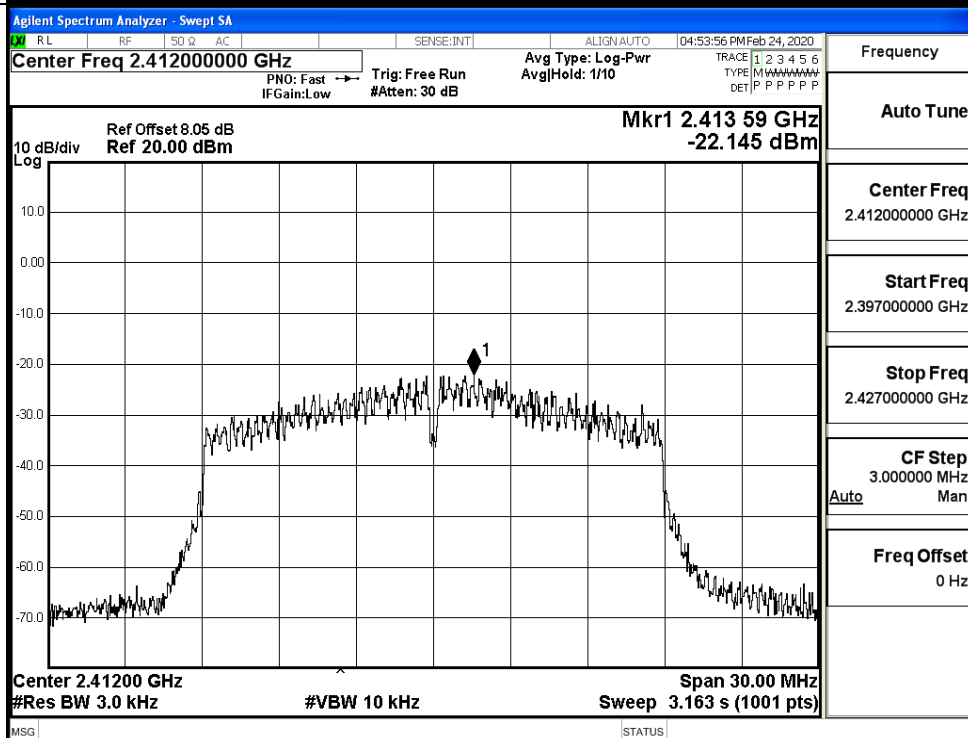
11G/MCH



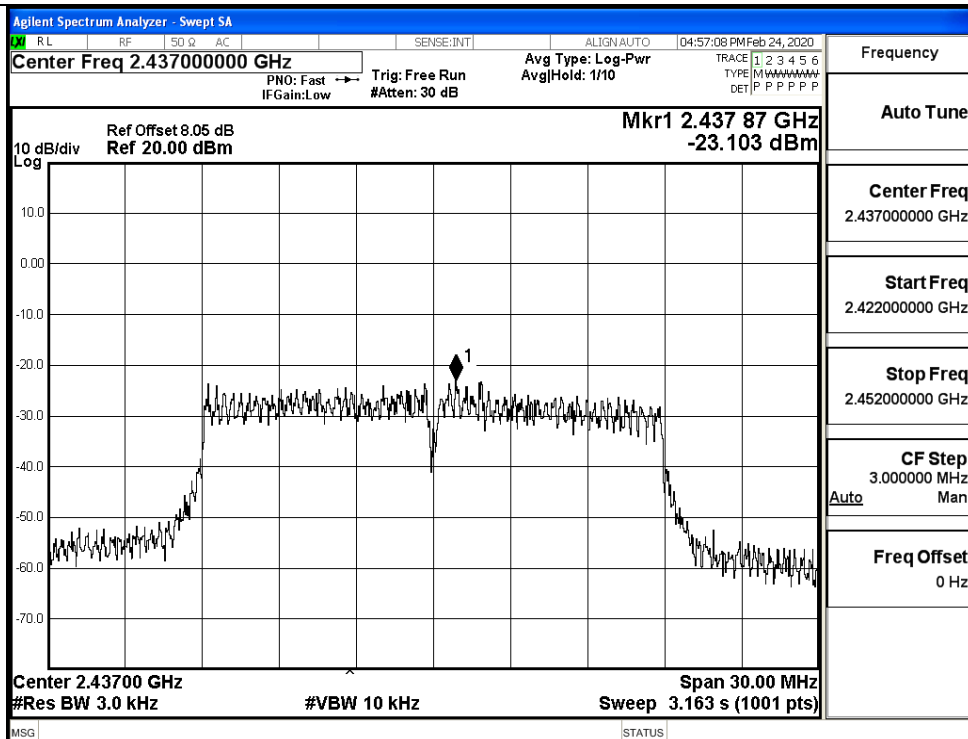
11G/HCH



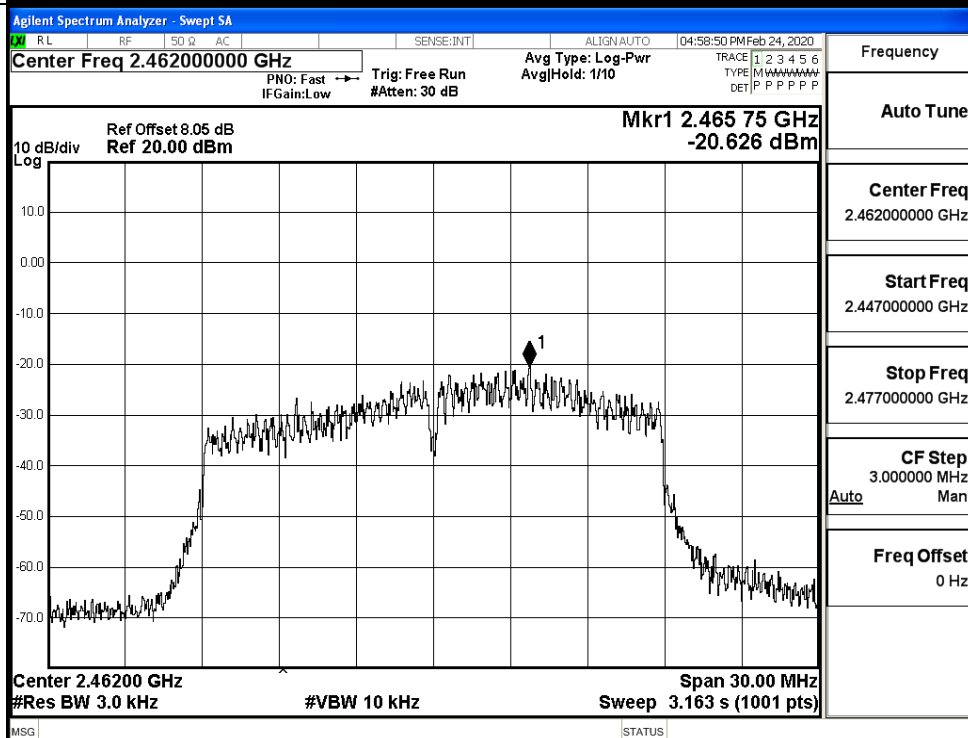
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

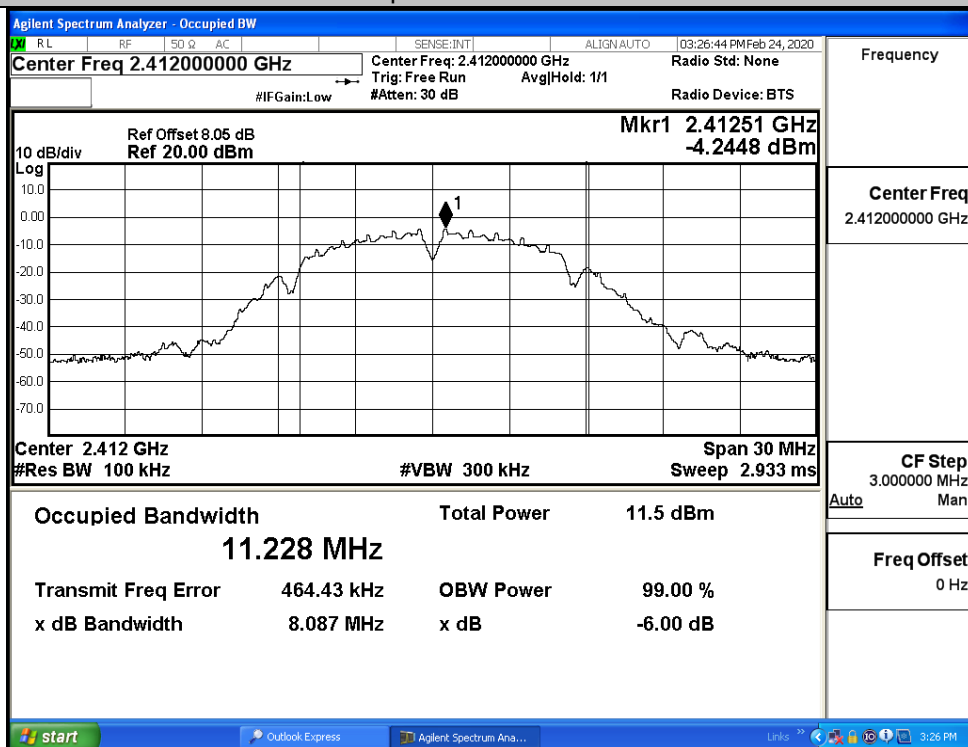


## C.4 6dB Bandwidth

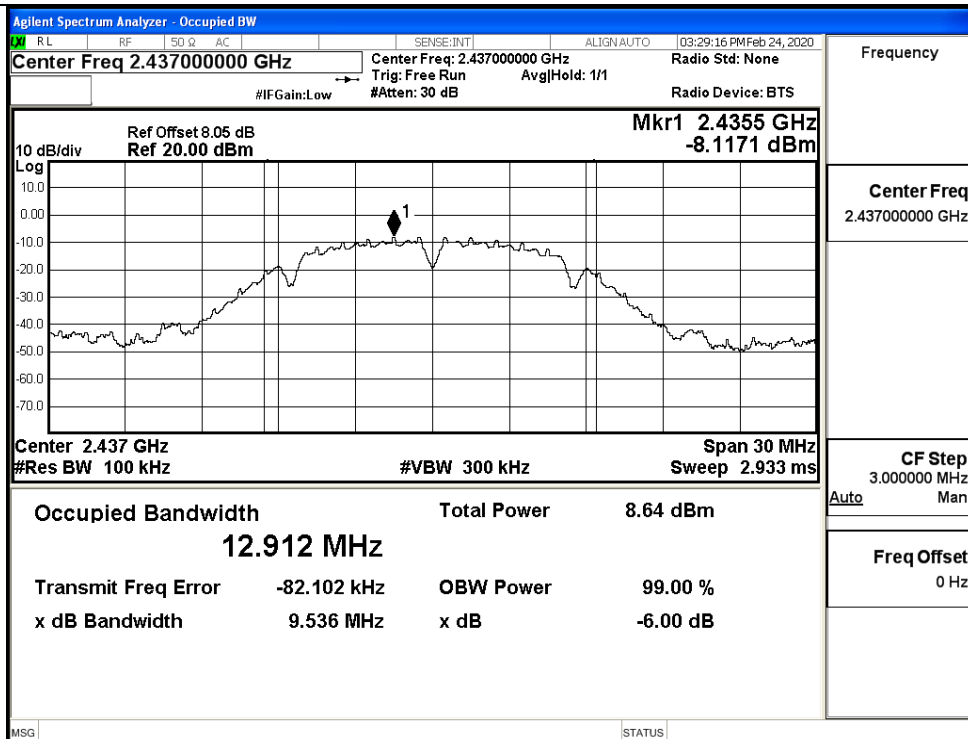
| Mode      | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-----------|---------|---------------------|-------------|---------|
| 11B       | LCH     | 8.087               | $\geq 0.5$  | PASS    |
|           | MCH     | 9.536               | $\geq 0.5$  | PASS    |
|           | HCH     | 9.131               | $\geq 0.5$  | PASS    |
| 11G       | LCH     | 12.40               | $\geq 0.5$  | PASS    |
|           | MCH     | 16.52               | $\geq 0.5$  | PASS    |
|           | HCH     | 12.18               | $\geq 0.5$  | PASS    |
| 11N20SISO | LCH     | 13.82               | $\geq 0.5$  | PASS    |
|           | MCH     | 16.35               | $\geq 0.5$  | PASS    |
|           | HCH     | 10.08               | $\geq 0.5$  | PASS    |

## Test Graphs

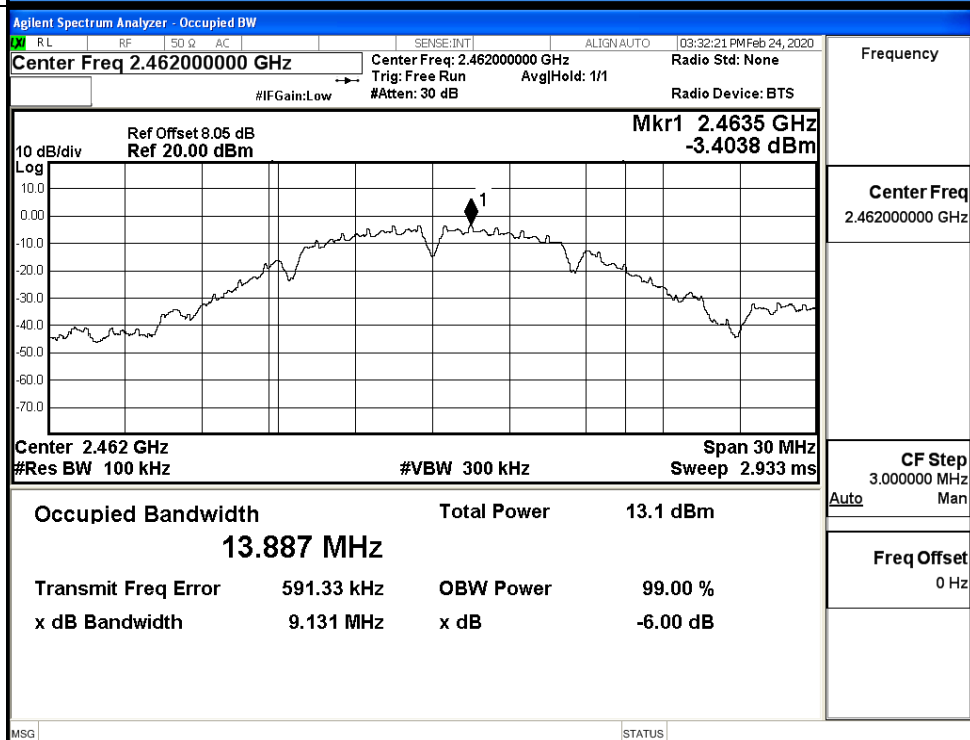
11B/LCH



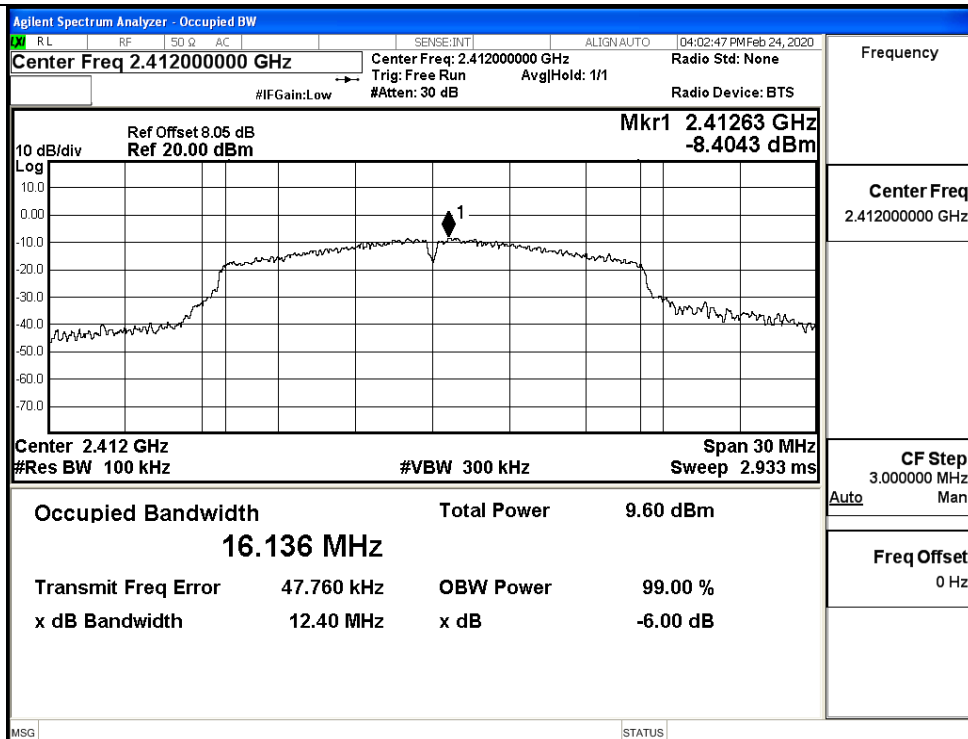
11B/MCH



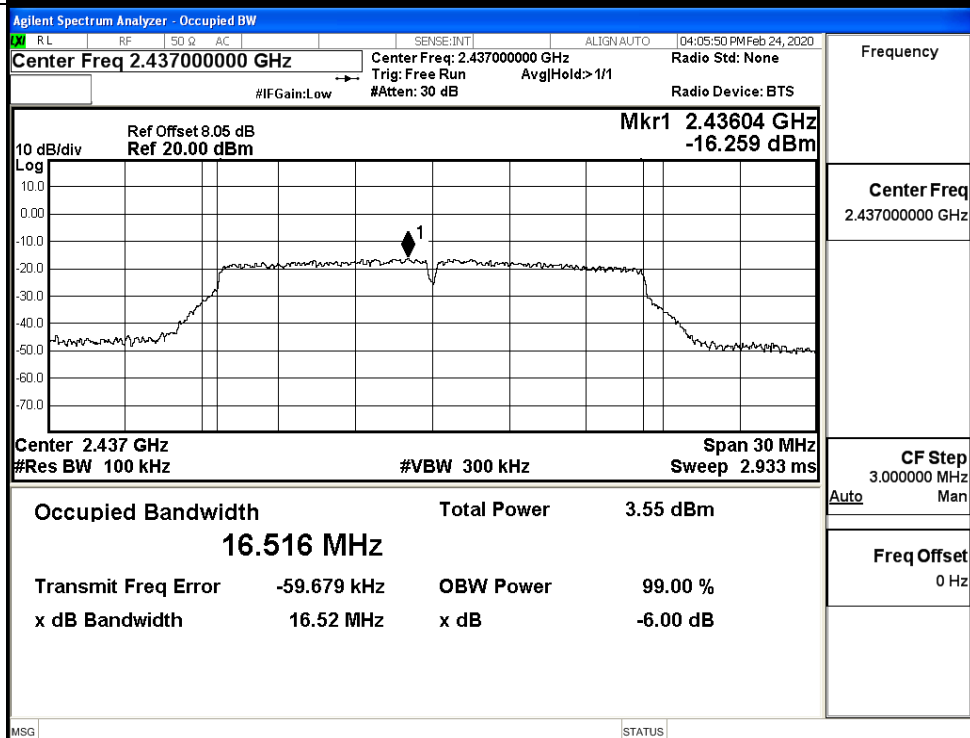
11B/HCH



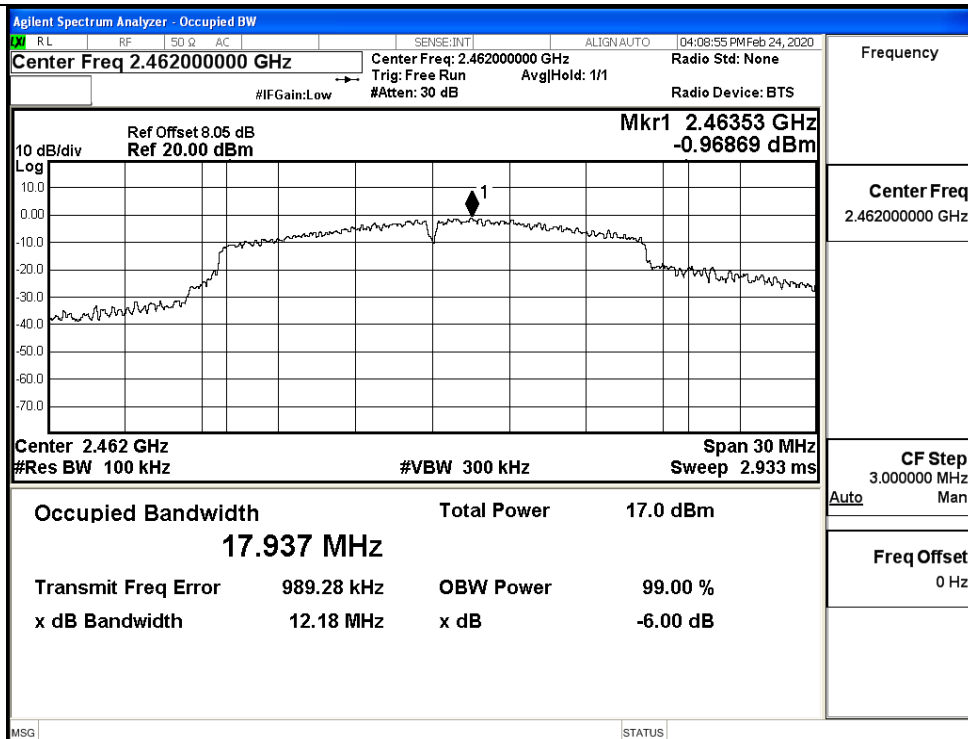
11G/LCH



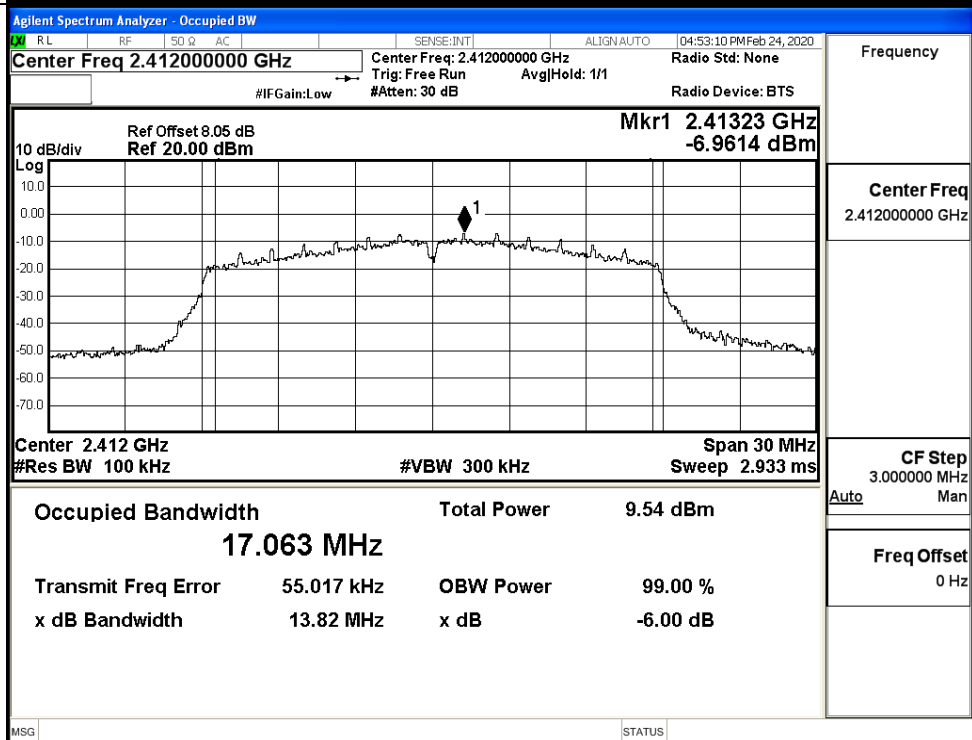
11G/MCH



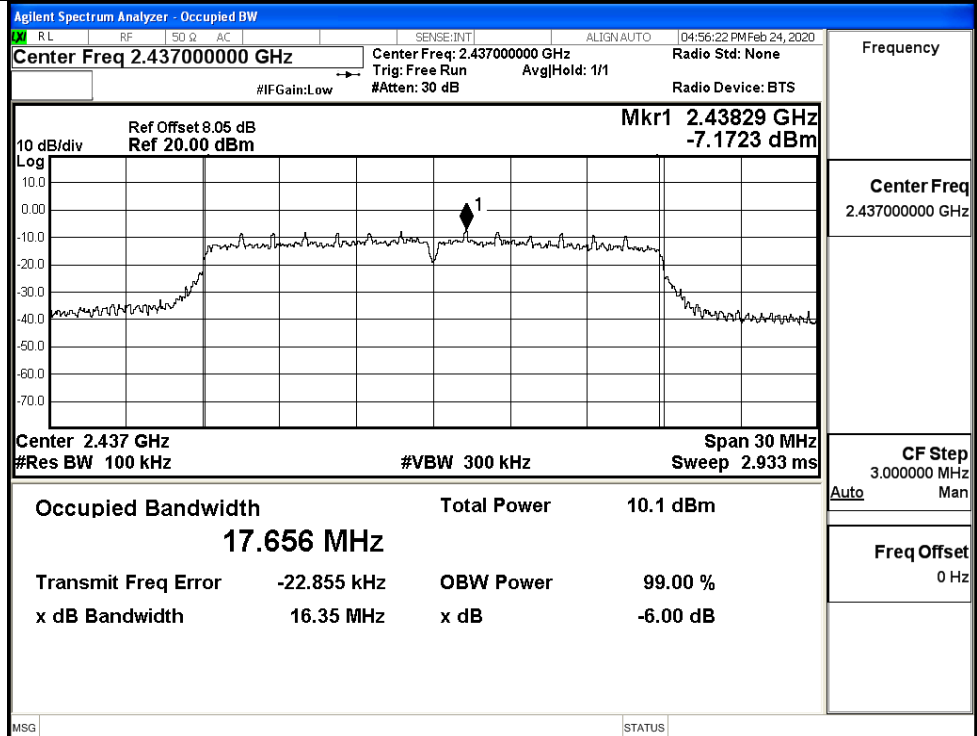
11G/HCH



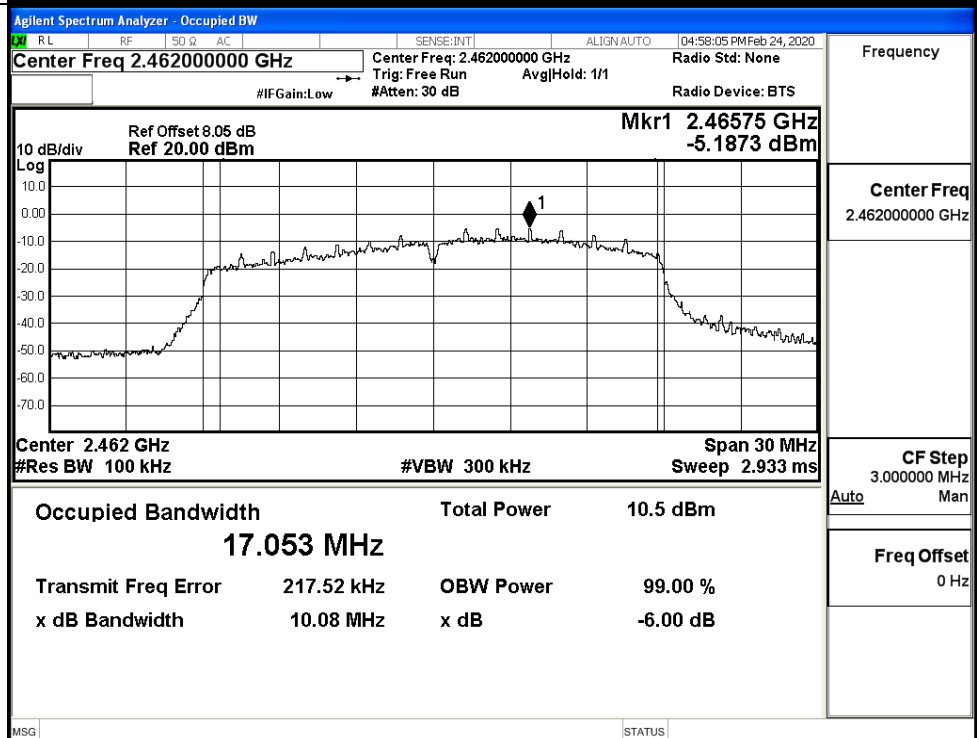
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

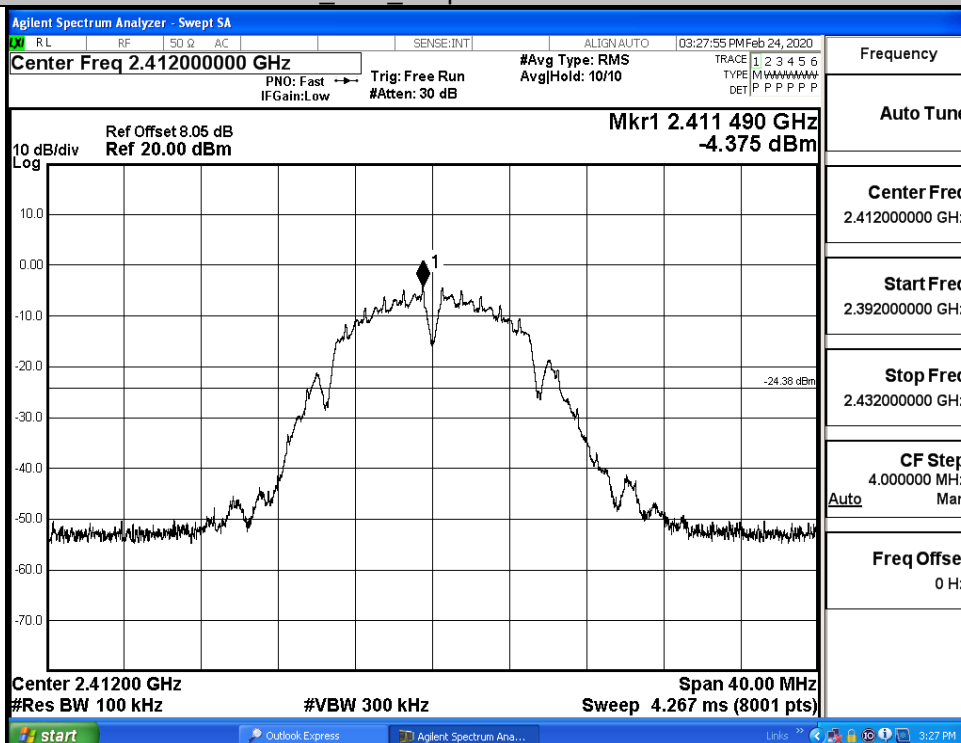


**C.5 RF Conducted Spurious Emissions**

| Mode          | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---------------|---------|------------|------------------|-------------|---------|
| 11B           | LCH     | -4.375     | -38.296          | -24.375     | PASS    |
|               | MCH     | -5.952     | -36.301          | -25.952     | PASS    |
|               | HCH     | -3.507     | -37.122          | -23.507     | PASS    |
| 11G           | LCH     | -9.013     | -37.666          | -29.013     | PASS    |
|               | MCH     | -13.112    | -37.881          | -33.112     | PASS    |
|               | HCH     | -10.839    | -37.585          | -30.839     | PASS    |
| 11N20<br>SISO | LCH     | -5.546     | -38.198          | -25.546     | PASS    |
|               | MCH     | -7.119     | -37.703          | -27.119     | PASS    |
|               | HCH     | -5.331     | -36.944          | -25.331     | PASS    |

## 11B LCH Graphs

Pref/11B/LCH

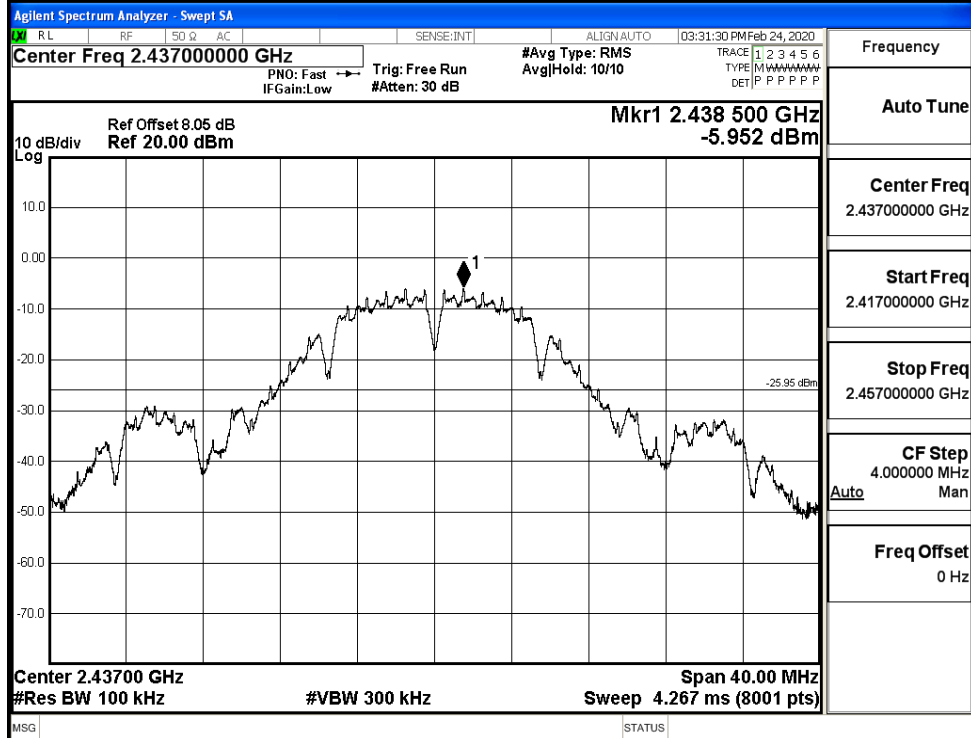


Puw/11B/LCH

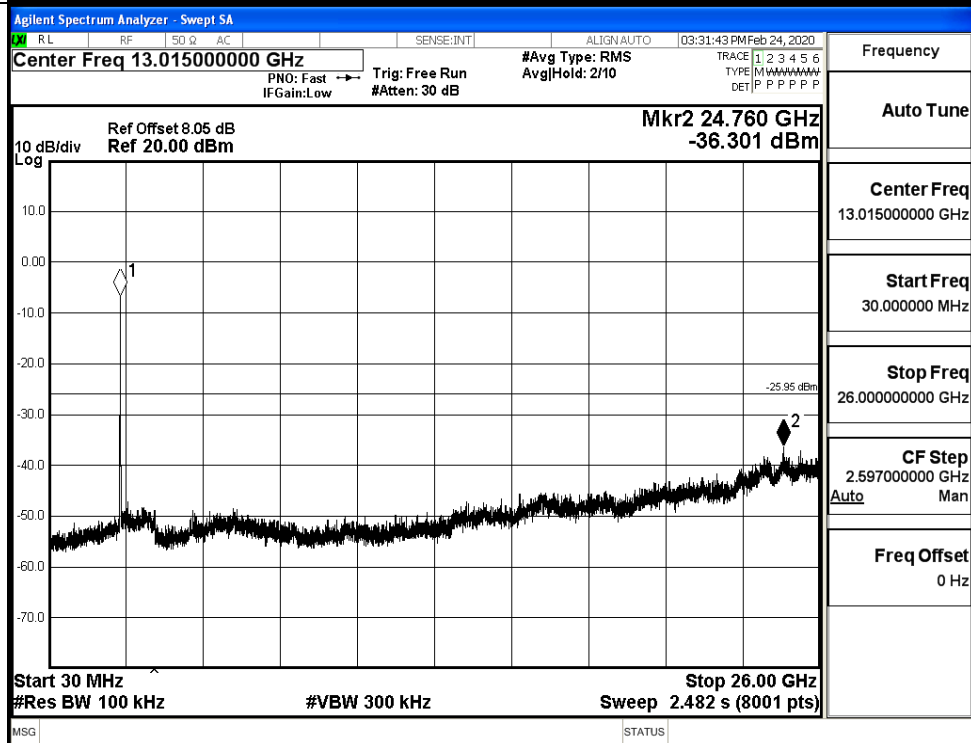


## 11B MCH Graphs

Pref/11B/MCH

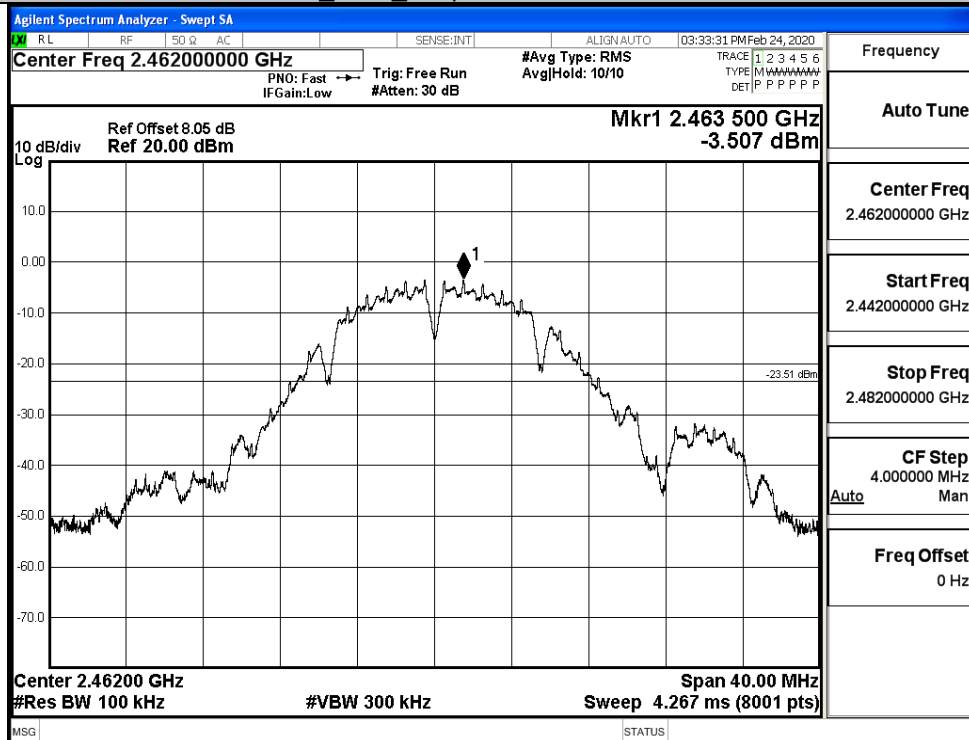


Puw/11B/MCH

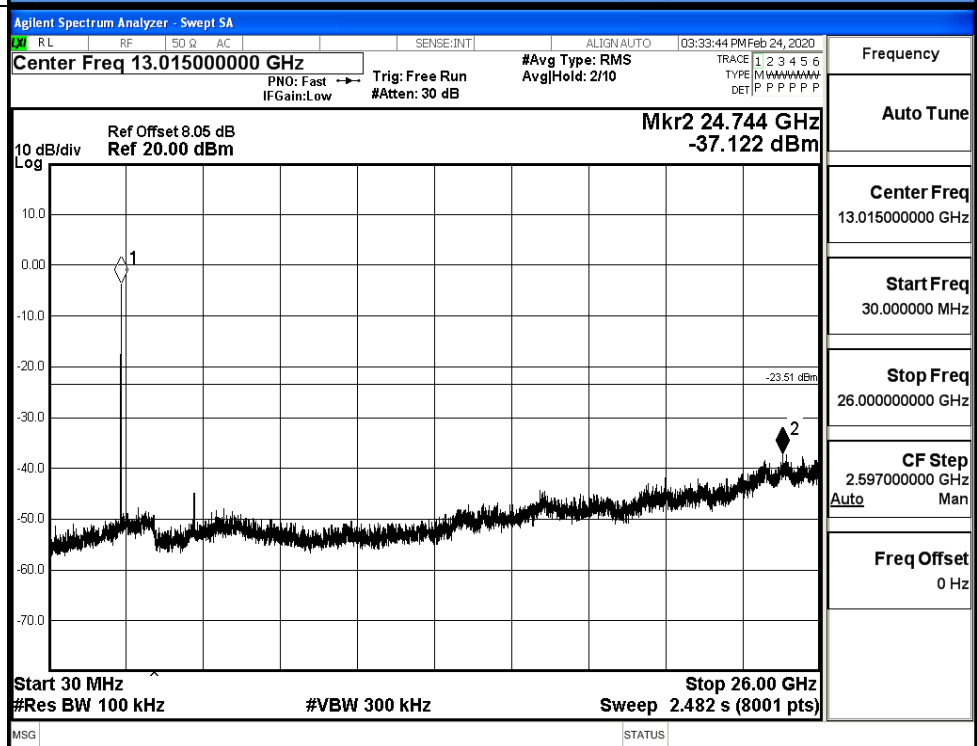


## 11B HCH Graphs

Pref/11B/HCH

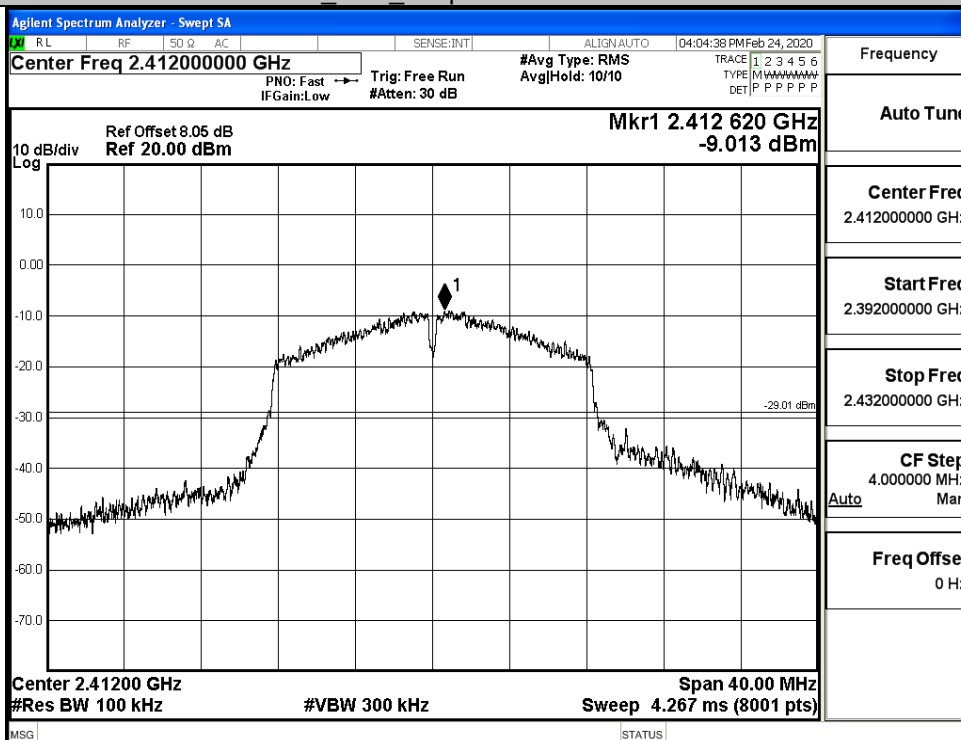


Puw/11B/HCH

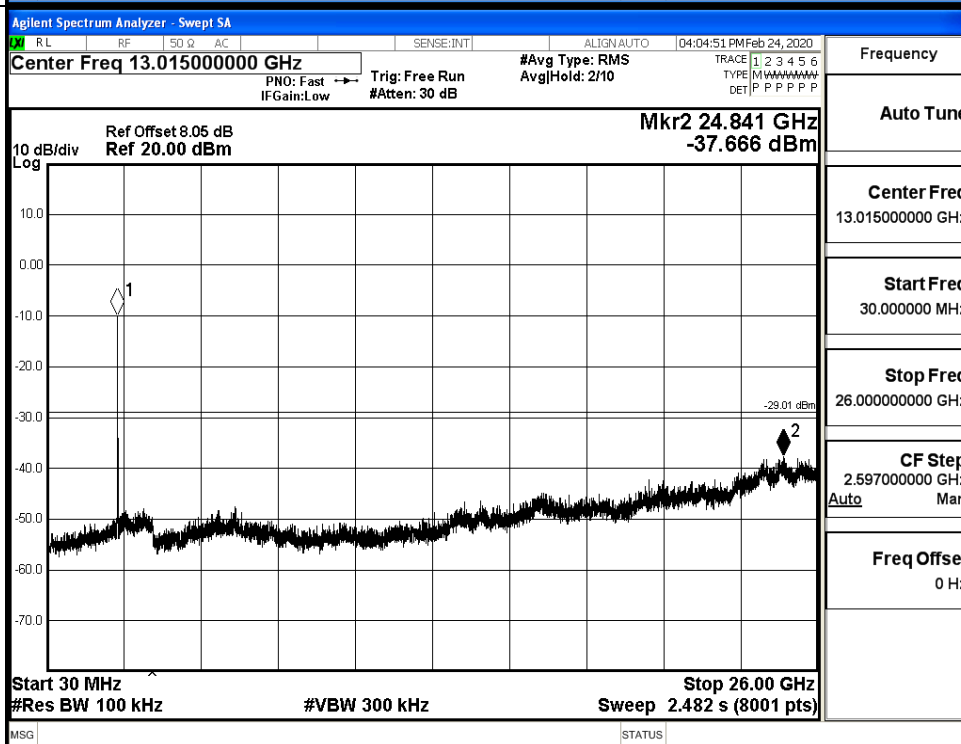


## 11G\_LCH\_Graphs

Pref/11G/LCH

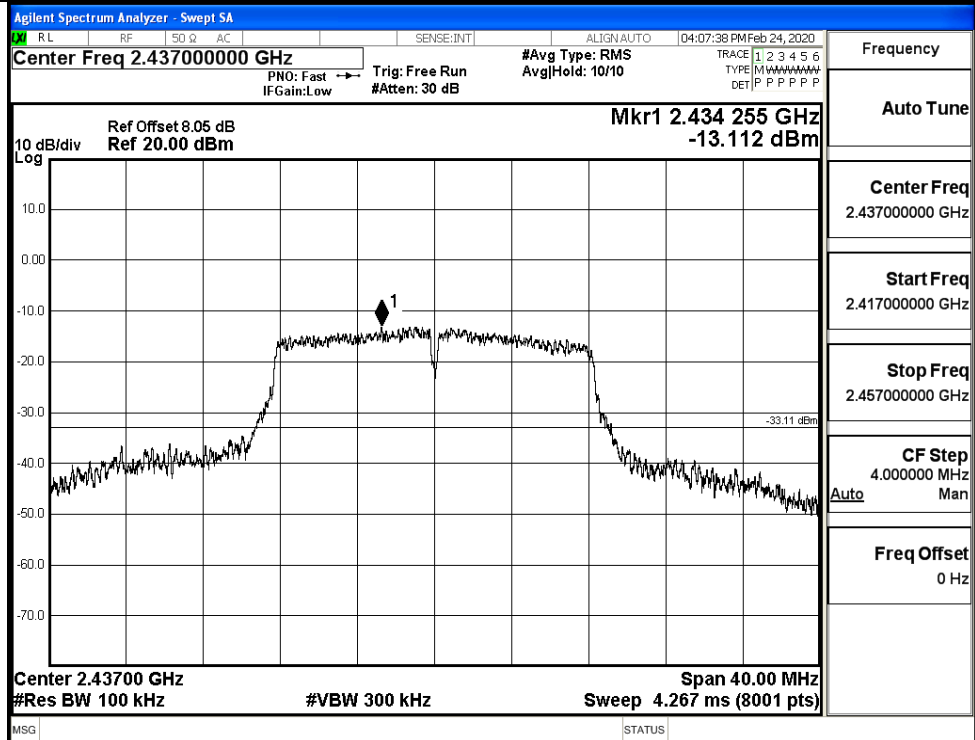


Puw/11G/LCH

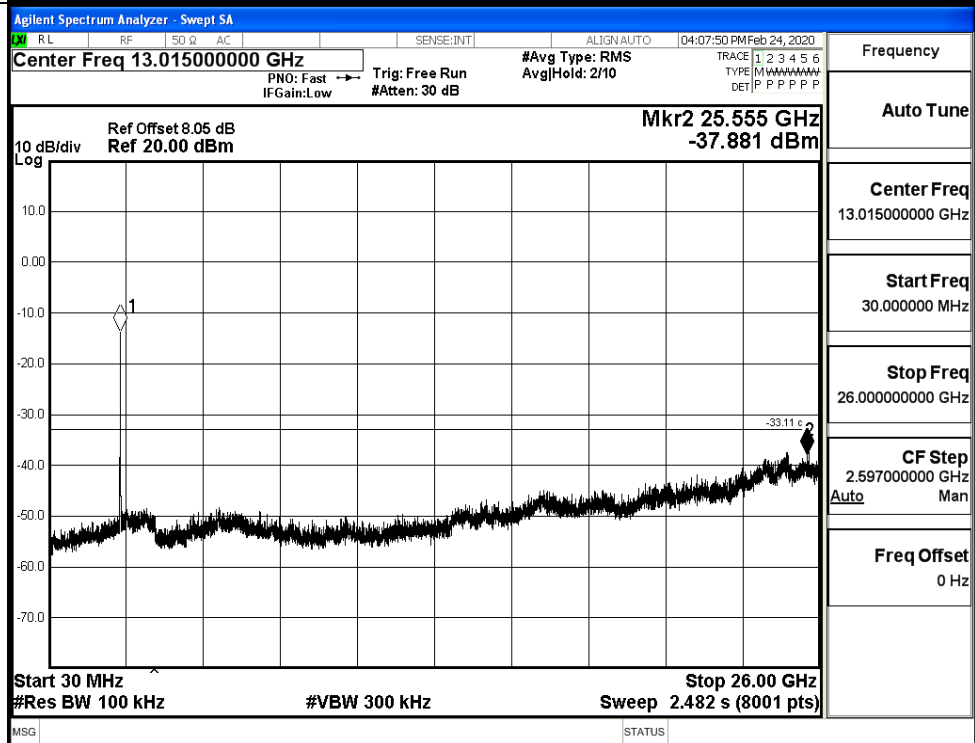


## 11G MCH Graphs

Pref/11G/MCH

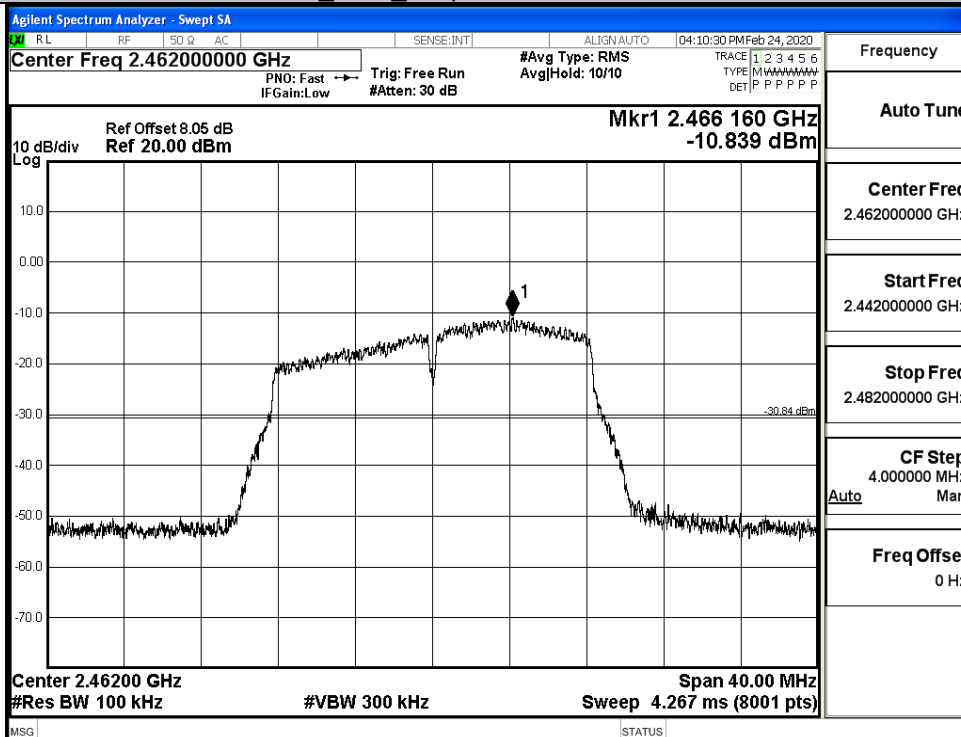


Puw/11G/MCH

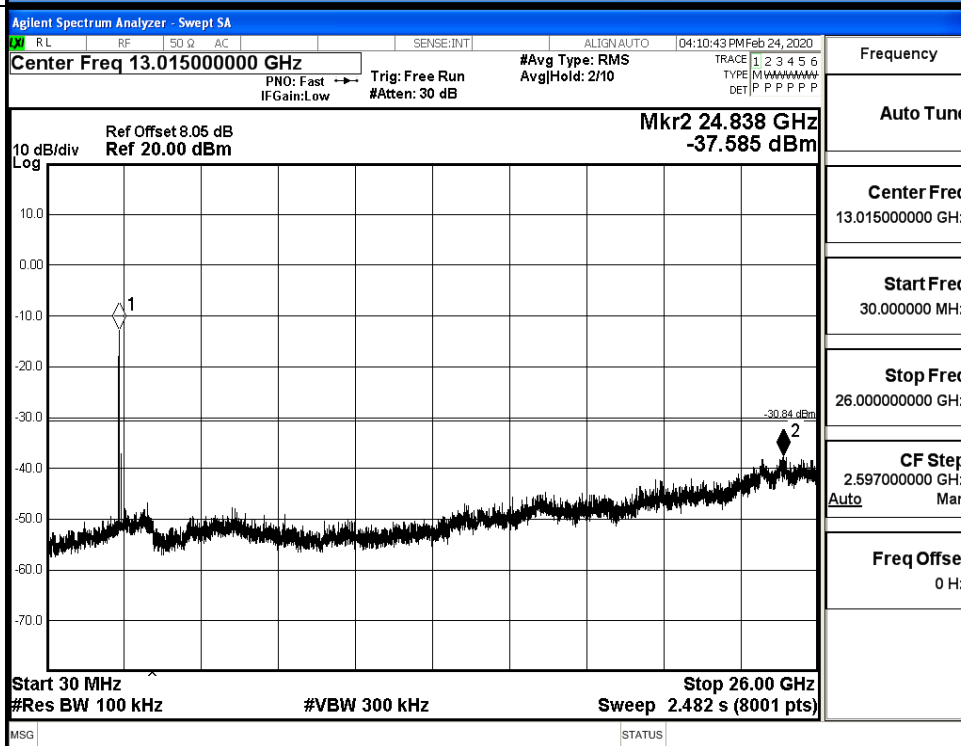


## 11G HCH Graphs

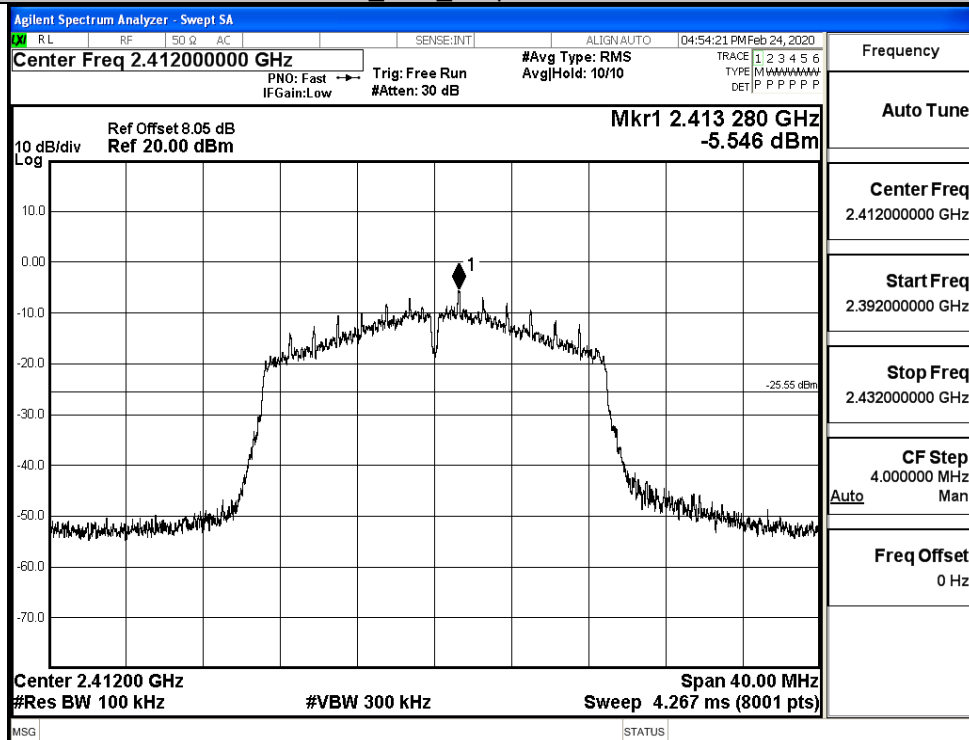
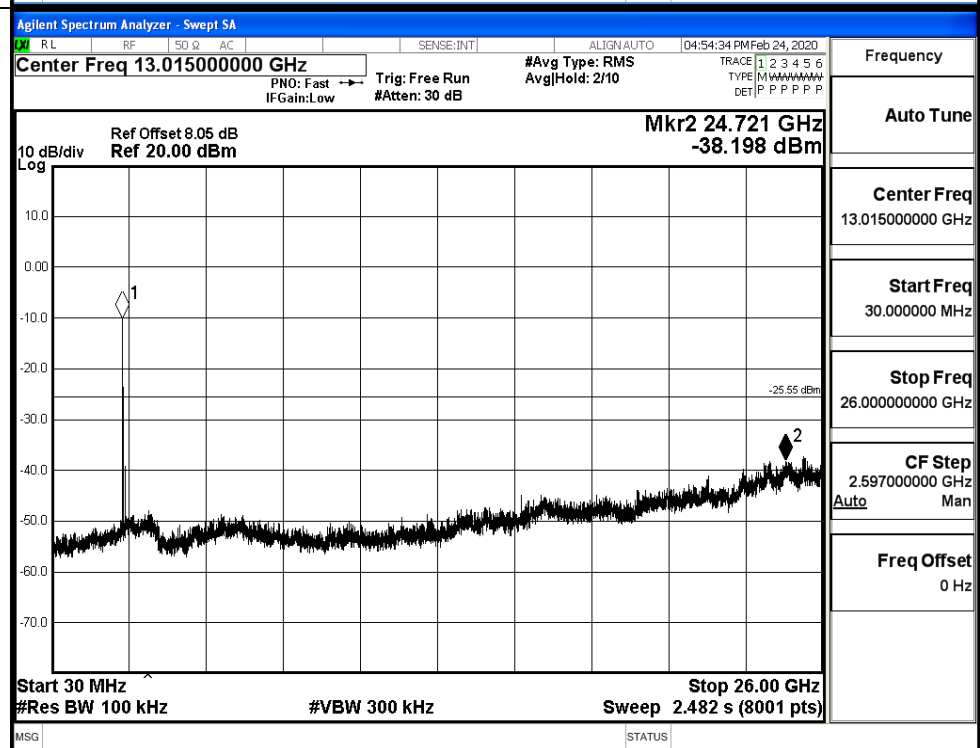
Pref/11G/HCH



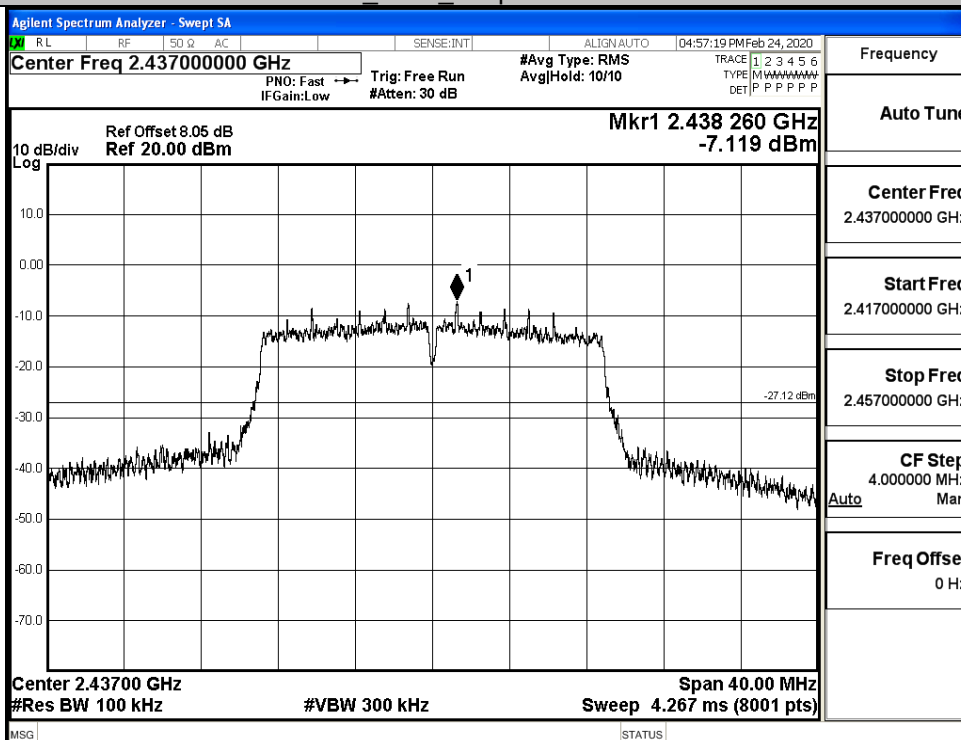
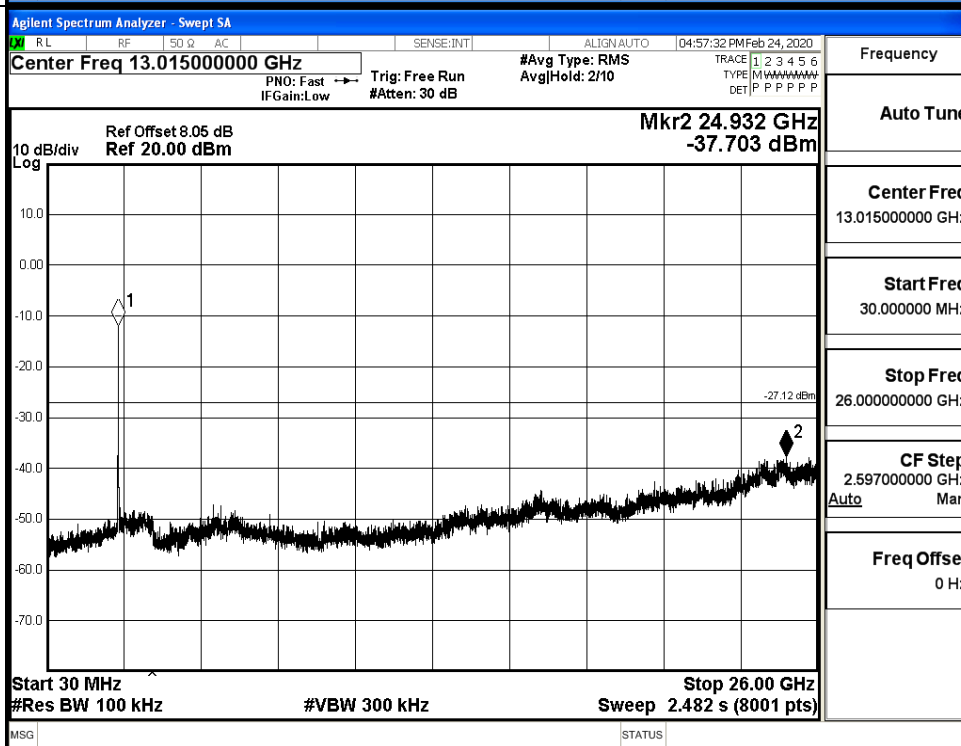
Puw/11G/HCH



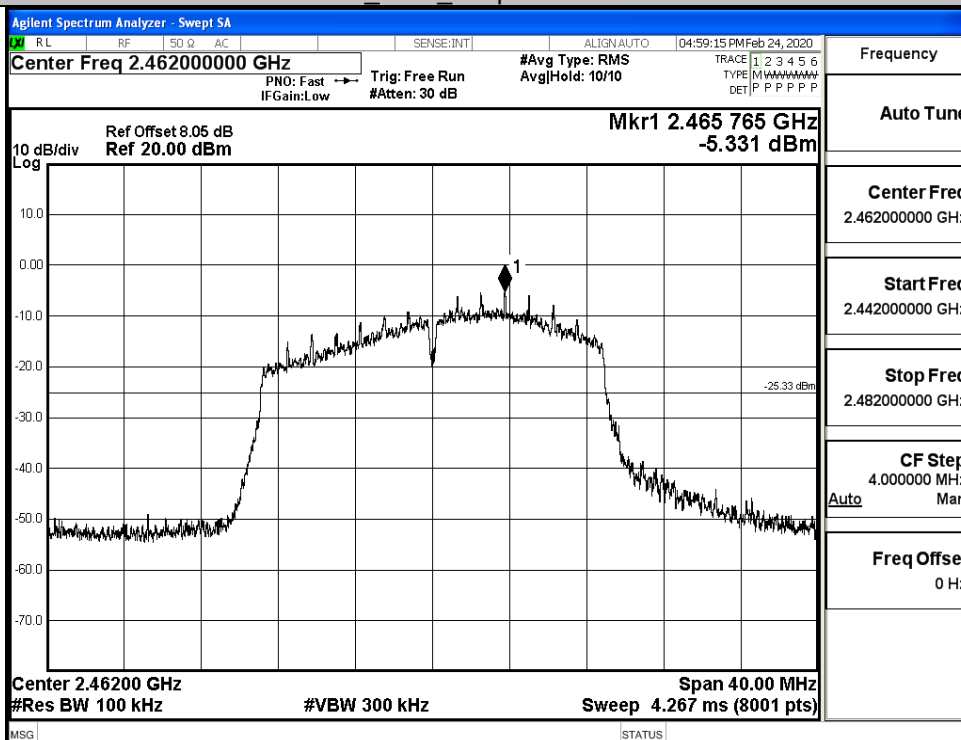
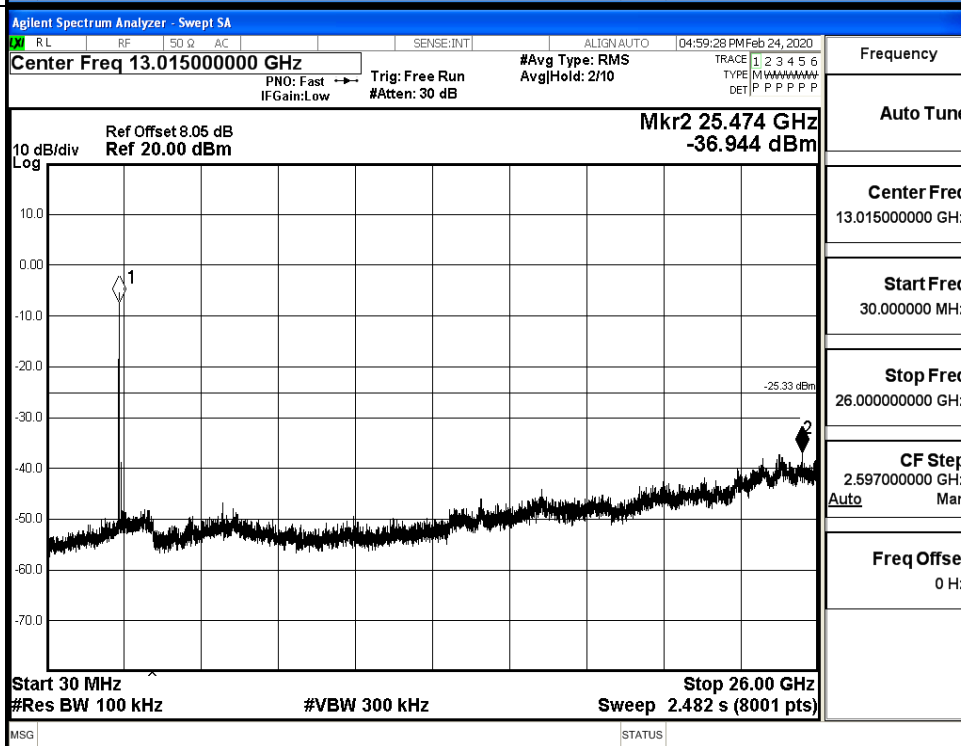
## 11N20SISO LCH Graphs

Pref/11N20SIS  
O/LCHPuw/11N20  
SISO/LCH

## 11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCHPuw/11N20  
SISO/MCH

## 11N20SISO HCH Graphs

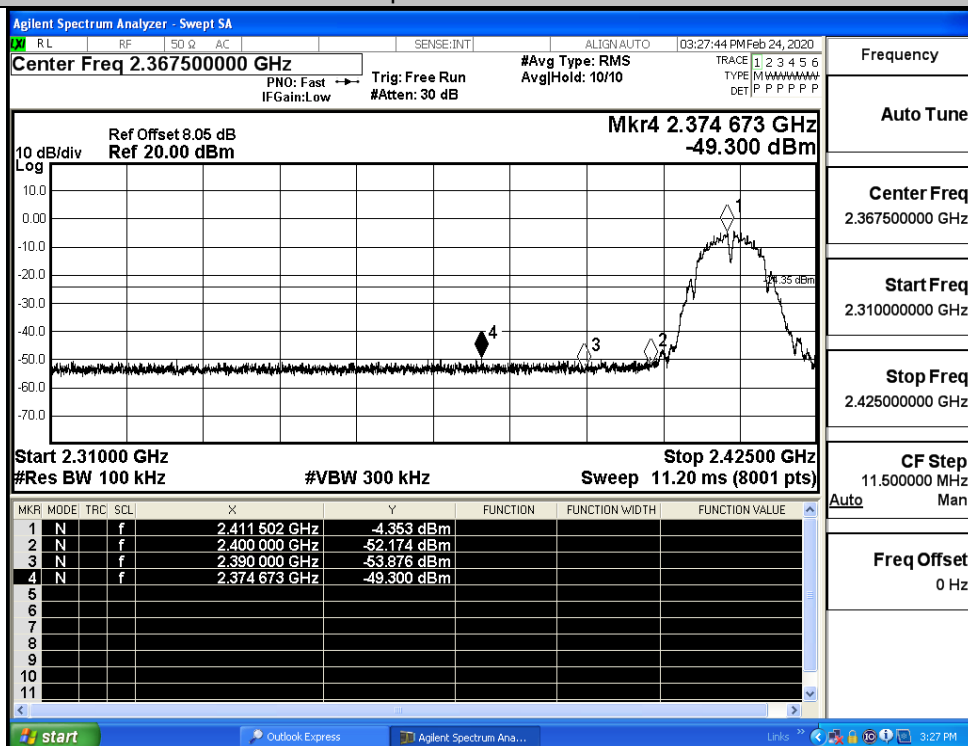
Pref/11N20  
SISO/HCHPuw/11N20  
SISO/HCH

## C.6 Band-edge for RF Conducted Emissions

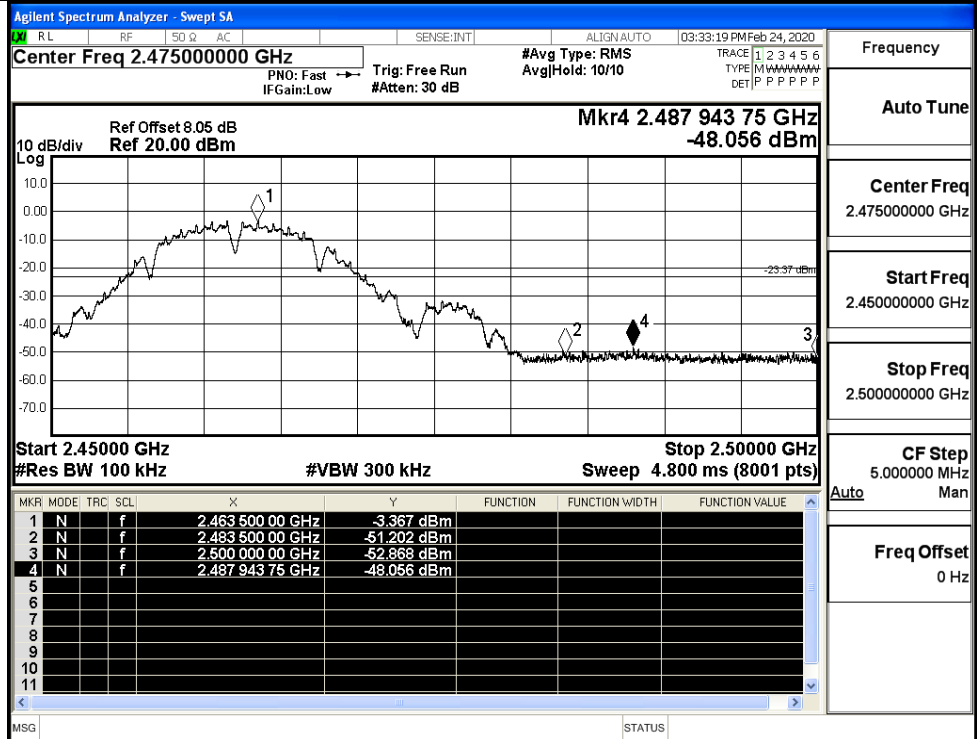
| Mode      | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------------------|--------------------------|-------------|---------|
| 11B       | LCH     | -4.353             | -49.300                  | -24.35      | PASS    |
|           | HCH     | -3.367             | -48.056                  | -23.37      | PASS    |
| 11G       | LCH     | -8.858             | -49.358                  | -28.86      | PASS    |
|           | HCH     | -10.816            | -48.615                  | -30.82      | PASS    |
| 11N20SISO | LCH     | -5.281             | -49.012                  | -25.28      | PASS    |
|           | HCH     | -5.369             | -49.674                  | -25.37      | PASS    |

## Test Graphs

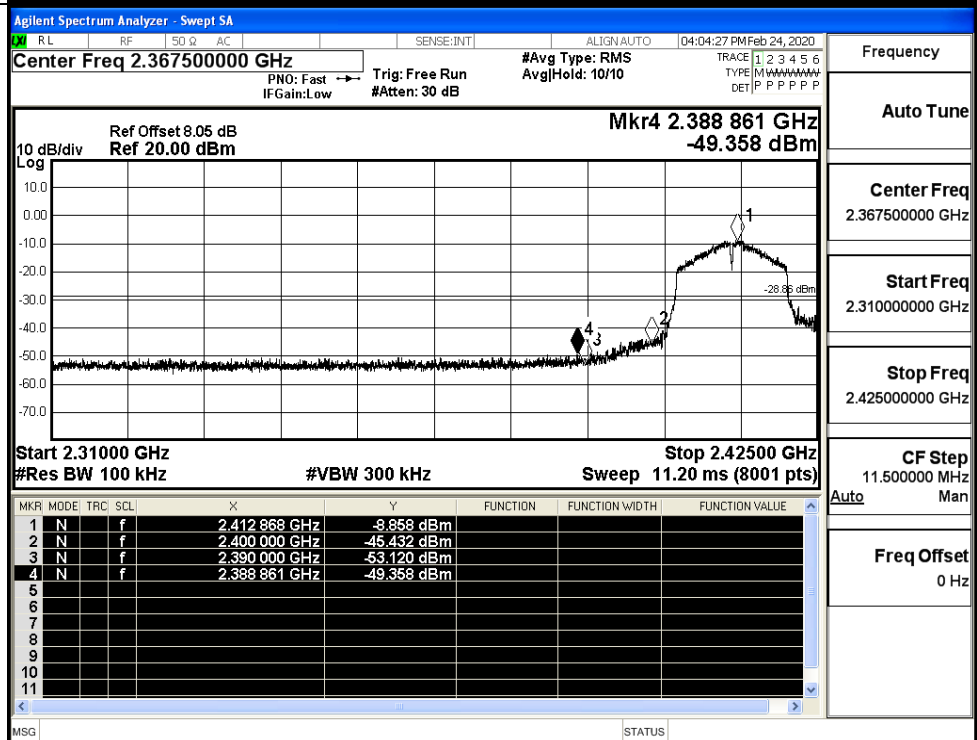
11B/LCH



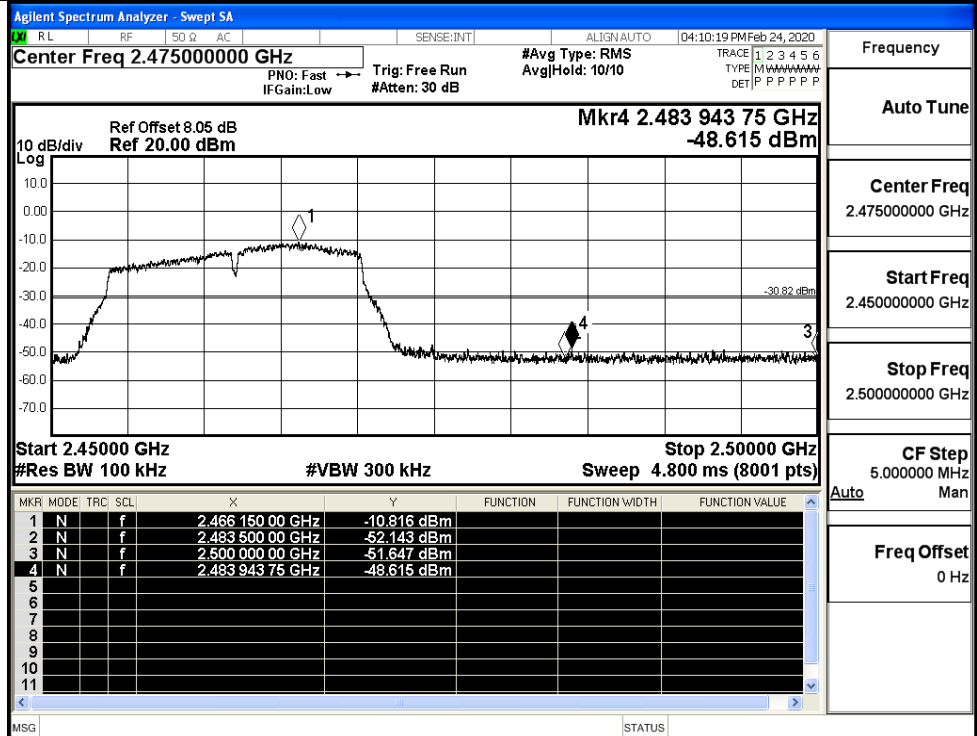
11B/HCH



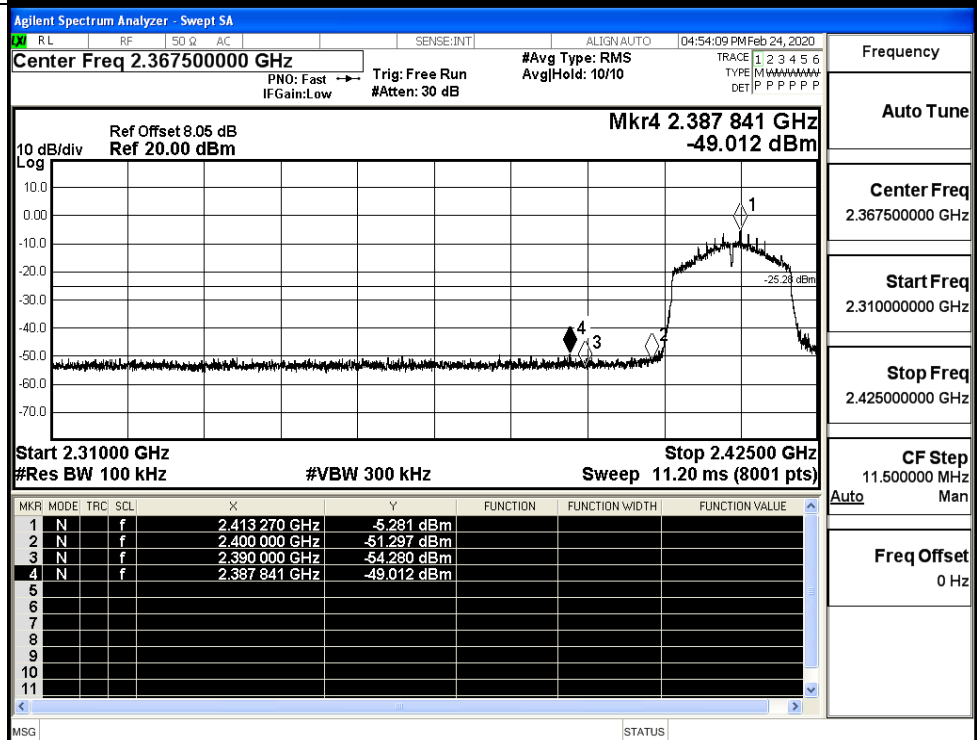
11G/LCH



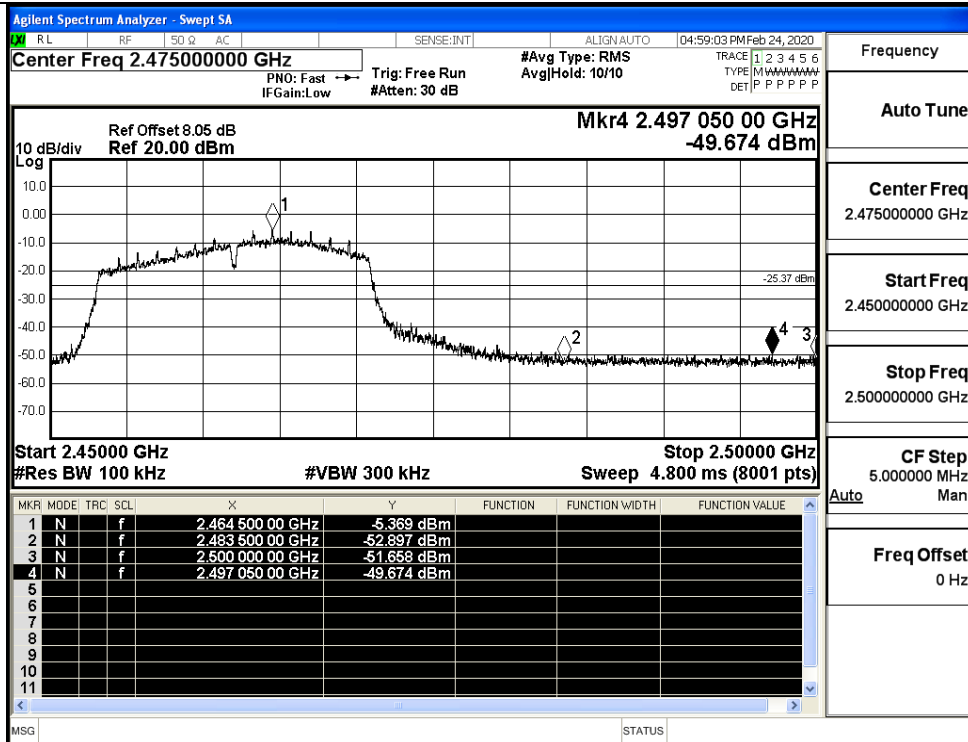
11G/HCH



11N20SISO/LCH



11N20SISO/HCH



Frequency

Auto Tune

Center Freq  
2.475000000 GHz

Start Freq  
2.450000000 GHz

Stop Freq  
2.500000000 GHz

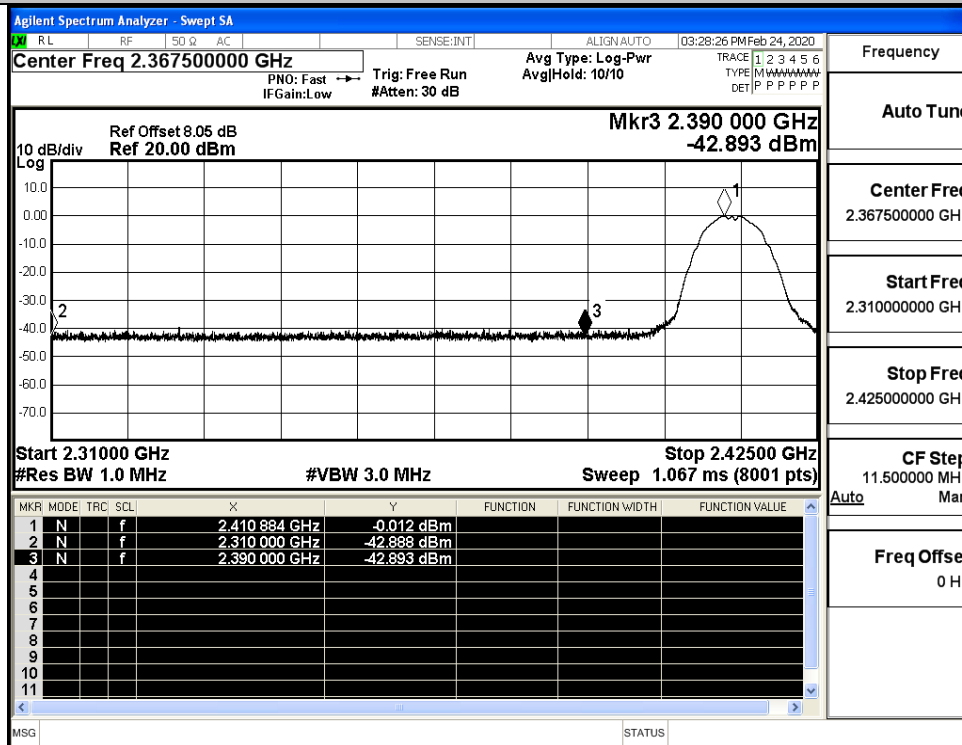
CF Step  
5.000000 MHz  
Auto Man

Freq Offset  
0 Hz

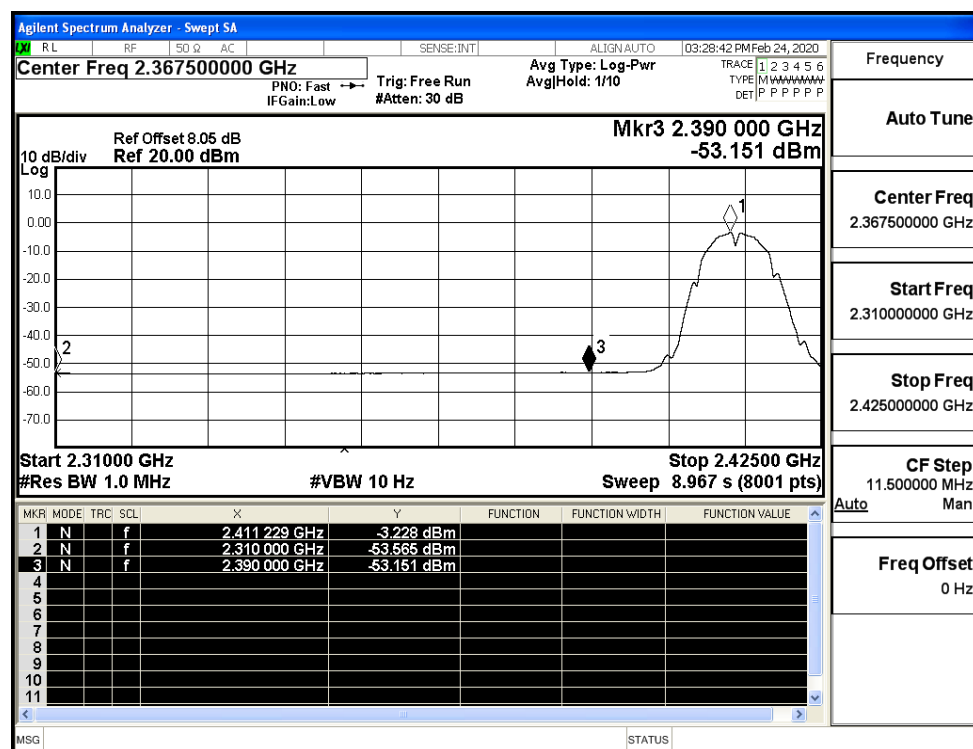
## C.7 Restrict-band band-edge measurements

| Test Mode  | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|------------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|---------|
| 11B        | 2412         | Ant1 | 2310.0 | -42.89      | 2.0  | 0             | 54.34      | PEAK     | 74             | PASS    |
|            | 2412         | Ant1 | 2310.0 | -53.57      | 2.0  | 0             | 43.66      | AV       | 54             | PASS    |
|            | 2412         | Ant1 | 2390.0 | -42.89      | 2.0  | 0             | 54.34      | PEAK     | 74             | PASS    |
|            | 2412         | Ant1 | 2390.0 | -53.15      | 2.0  | 0             | 44.08      | AV       | 54             | PASS    |
|            | 2462         | Ant1 | 2483.5 | -41.79      | 2.0  | 0             | 55.44      | PEAK     | 74             | PASS    |
|            | 2462         | Ant1 | 2483.5 | -51.95      | 2.0  | 0             | 45.28      | AV       | 54             | PASS    |
|            | 2462         | Ant1 | 2500.0 | -42.30      | 2.0  | 0             | 54.93      | PEAK     | 74             | PASS    |
|            | 2462         | Ant1 | 2500.0 | -52.59      | 2.0  | 0             | 44.64      | AV       | 54             | PASS    |
| 11G        | 2412         | Ant1 | 2310.0 | -41.73      | 2.0  | 0             | 55.50      | PEAK     | 74             | PASS    |
|            | 2412         | Ant1 | 2310.0 | -53.55      | 2.0  | 0             | 43.68      | AV       | 54             | PASS    |
|            | 2412         | Ant1 | 2390.0 | -39.46      | 2.0  | 0             | 57.77      | PEAK     | 74             | PASS    |
|            | 2412         | Ant1 | 2390.0 | -52.11      | 2.0  | 0             | 45.12      | AV       | 54             | PASS    |
|            | 2462         | Ant1 | 2483.5 | -42.11      | 2.0  | 0             | 55.12      | PEAK     | 74             | PASS    |
|            | 2462         | Ant1 | 2483.5 | -52.68      | 2.0  | 0             | 44.55      | AV       | 54             | PASS    |
|            | 2462         | Ant1 | 2500.0 | -43.06      | 2.0  | 0             | 54.17      | PEAK     | 74             | PASS    |
|            | 2462         | Ant1 | 2500.0 | -52.60      | 2.0  | 0             | 44.63      | AV       | 54             | PASS    |
| 11N20 SISO | 2412         | Ant1 | 2310.0 | -43.87      | 2.0  | 0             | 53.36      | PEAK     | 74             | PASS    |
|            | 2412         | Ant1 | 2310.0 | -53.54      | 2.0  | 0             | 43.69      | AV       | 54             | PASS    |
|            | 2412         | Ant1 | 2390.0 | -43.24      | 2.0  | 0             | 53.99      | PEAK     | 74             | PASS    |
|            | 2412         | Ant1 | 2390.0 | -53.12      | 2.0  | 0             | 44.11      | AV       | 54             | PASS    |
|            | 2462         | Ant1 | 2483.5 | -41.37      | 2.0  | 0             | 55.86      | PEAK     | 74             | PASS    |
|            | 2462         | Ant1 | 2483.5 | -52.33      | 2.0  | 0             | 44.90      | AV       | 54             | PASS    |
|            | 2462         | Ant1 | 2500.0 | -42.88      | 2.0  | 0             | 54.35      | PEAK     | 74             | PASS    |
|            | 2462         | Ant1 | 2500.0 | -52.59      | 2.0  | 0             | 44.64      | AV       | 54             | PASS    |

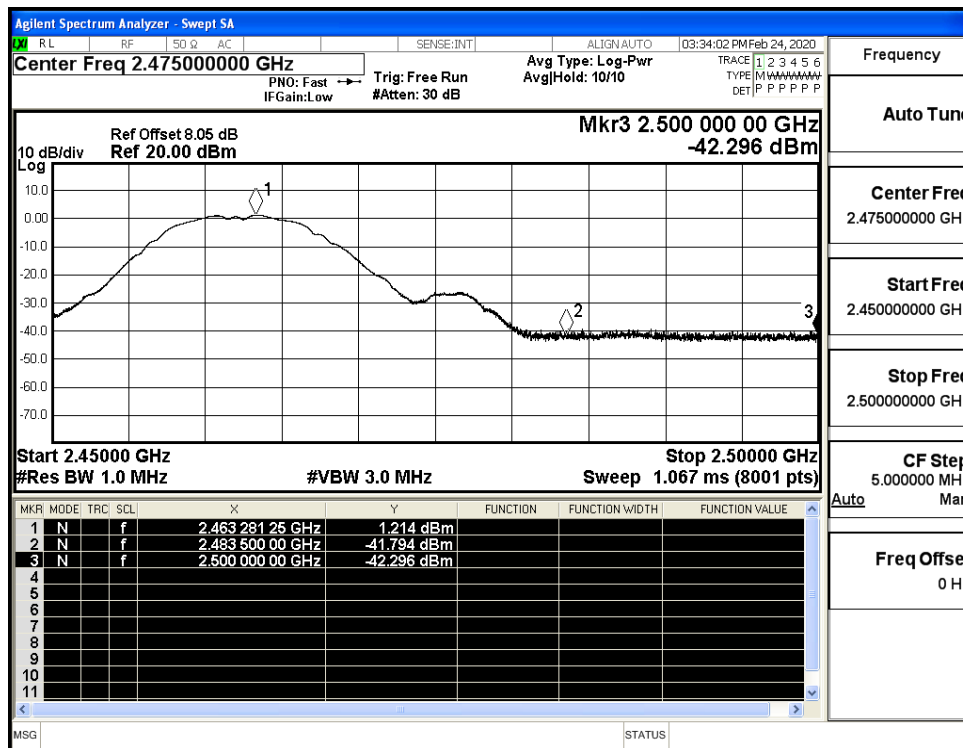
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



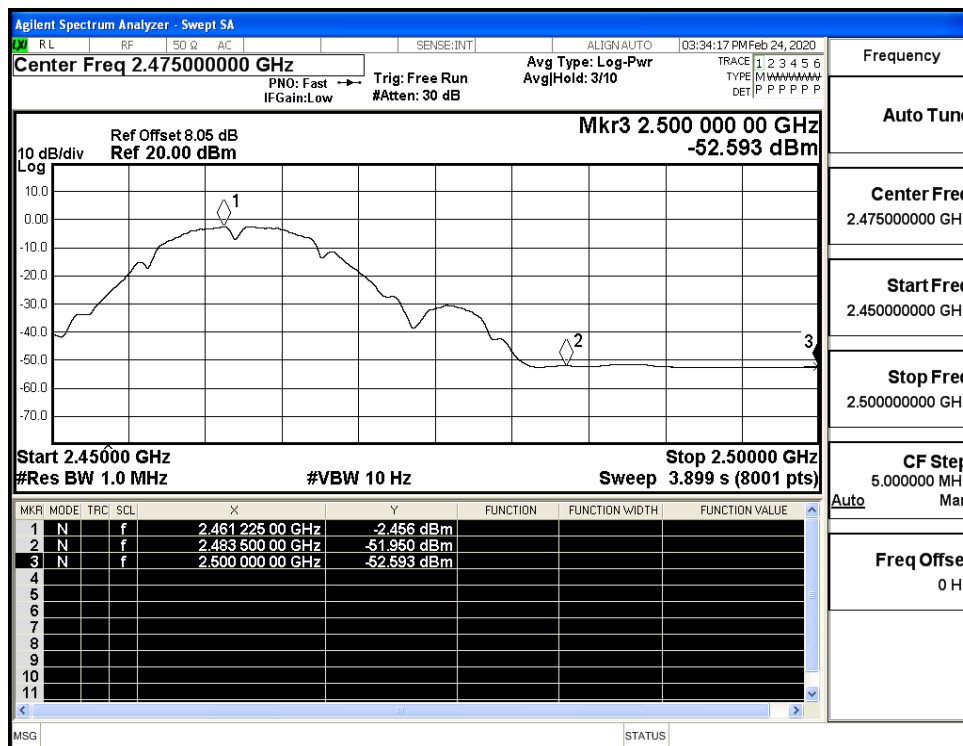
## Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



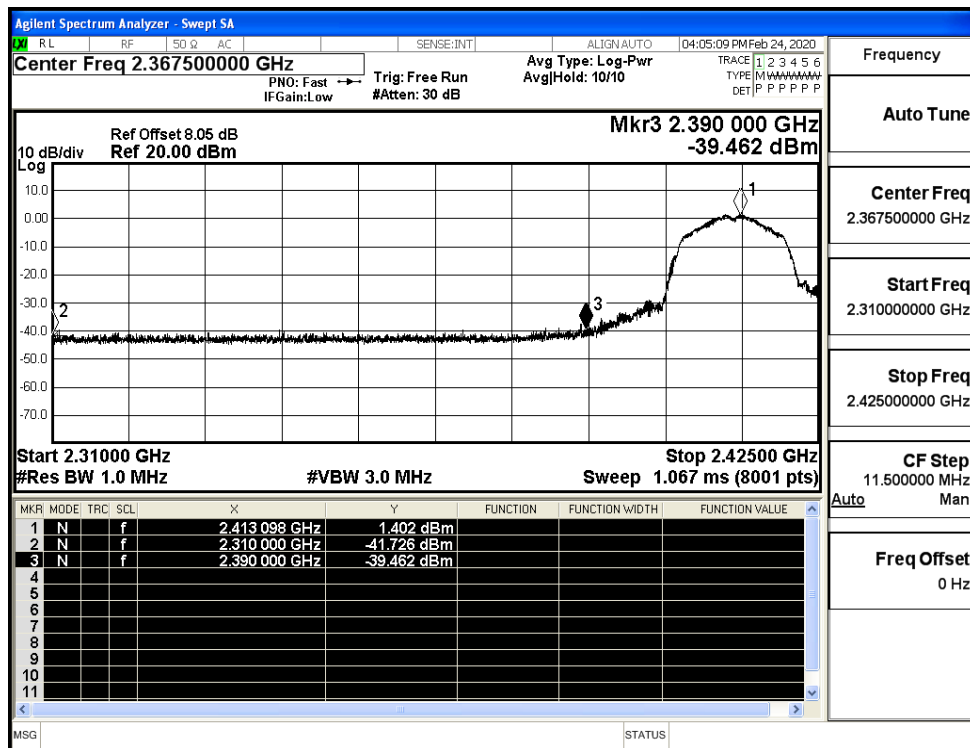
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



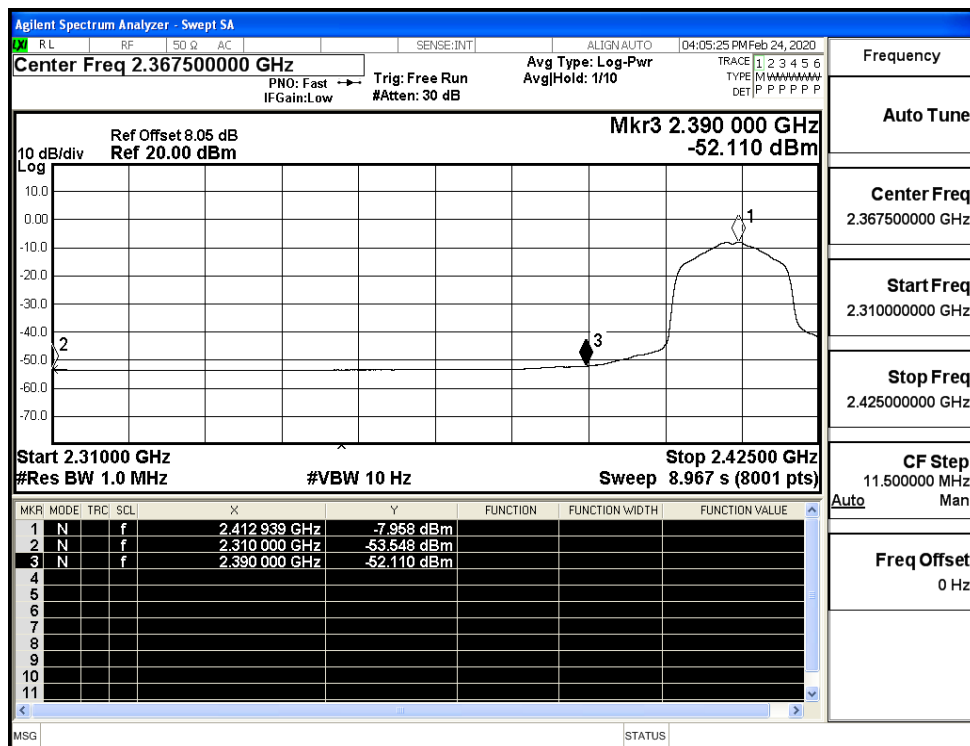
## Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



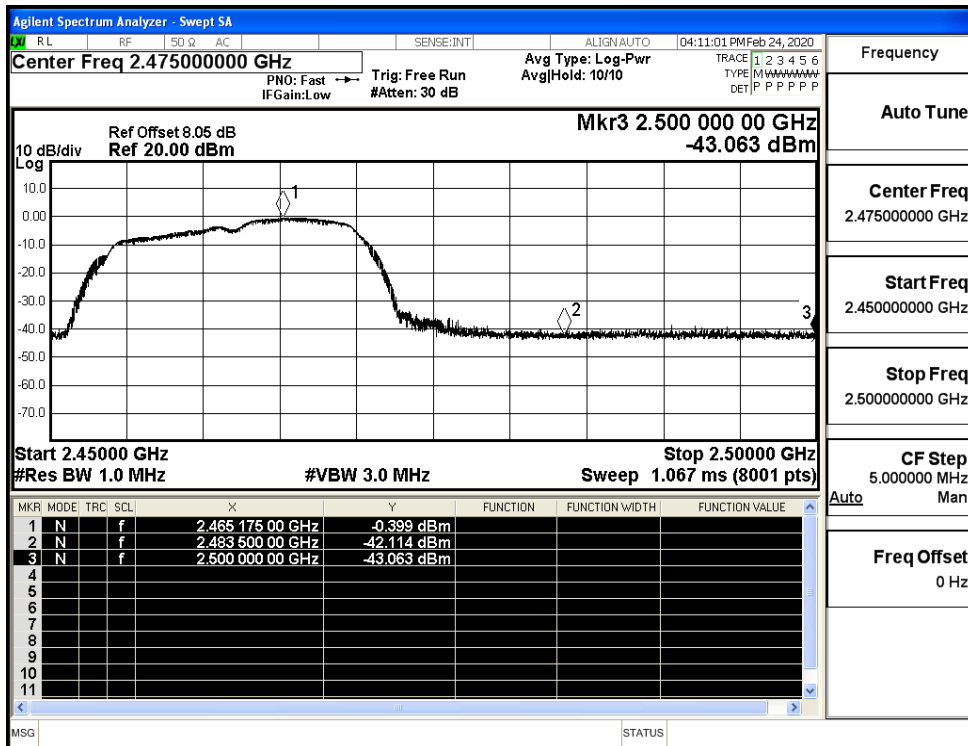
## Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



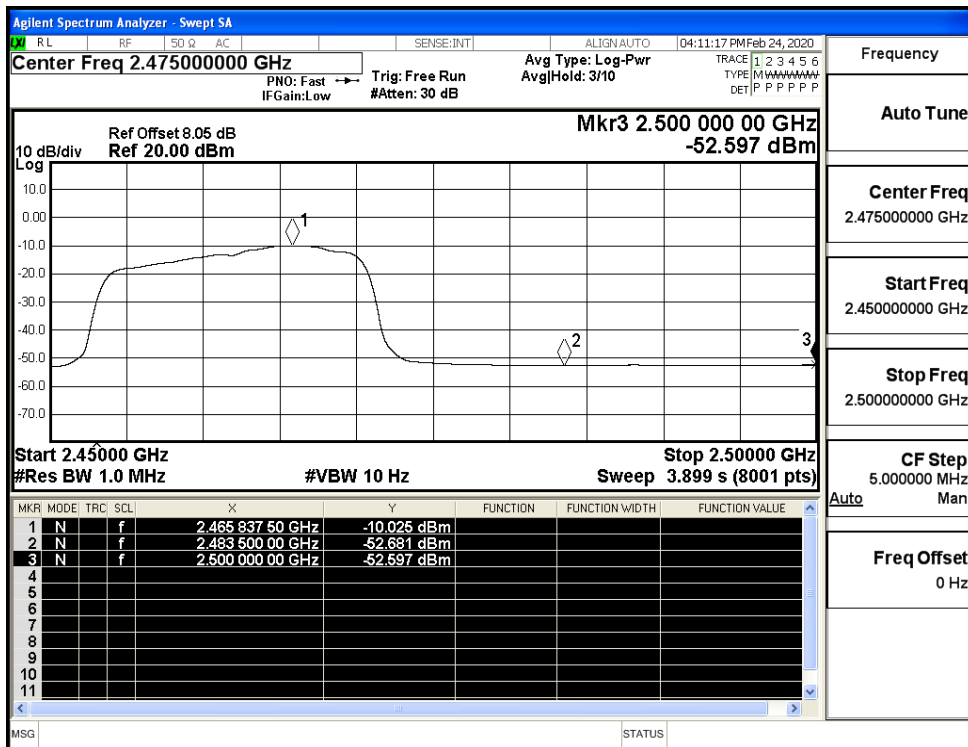
## Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



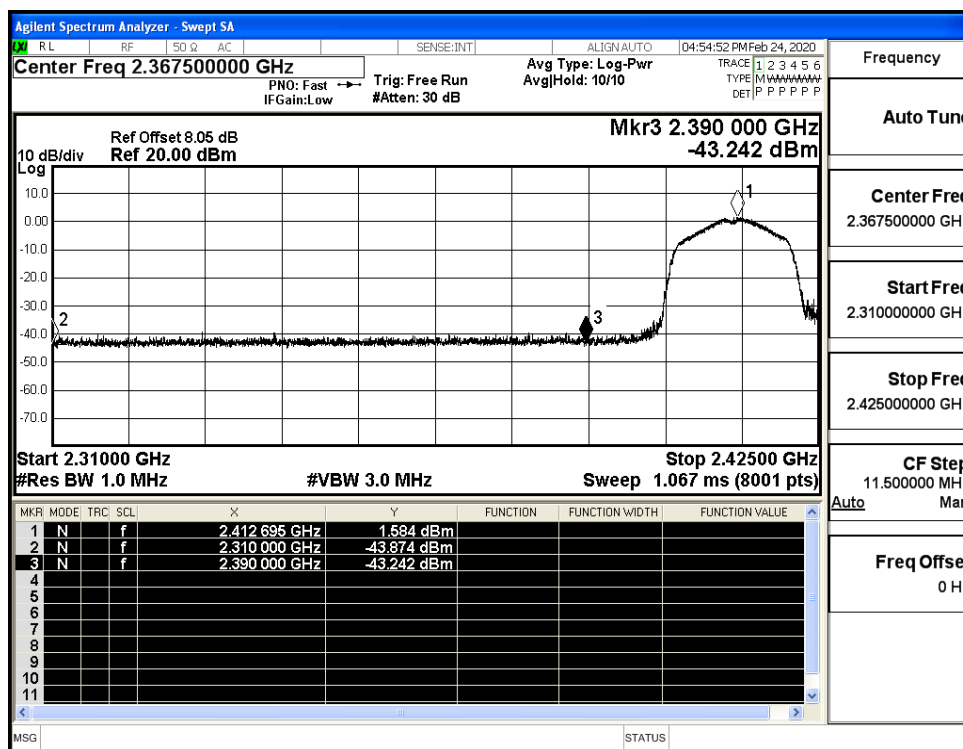
## Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



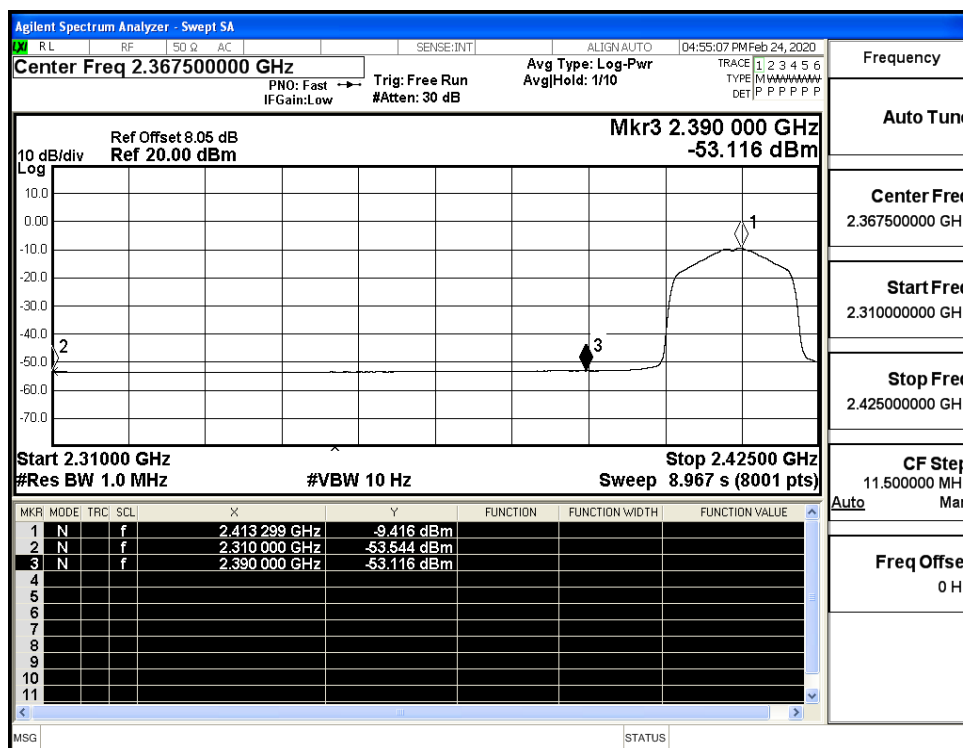
## Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



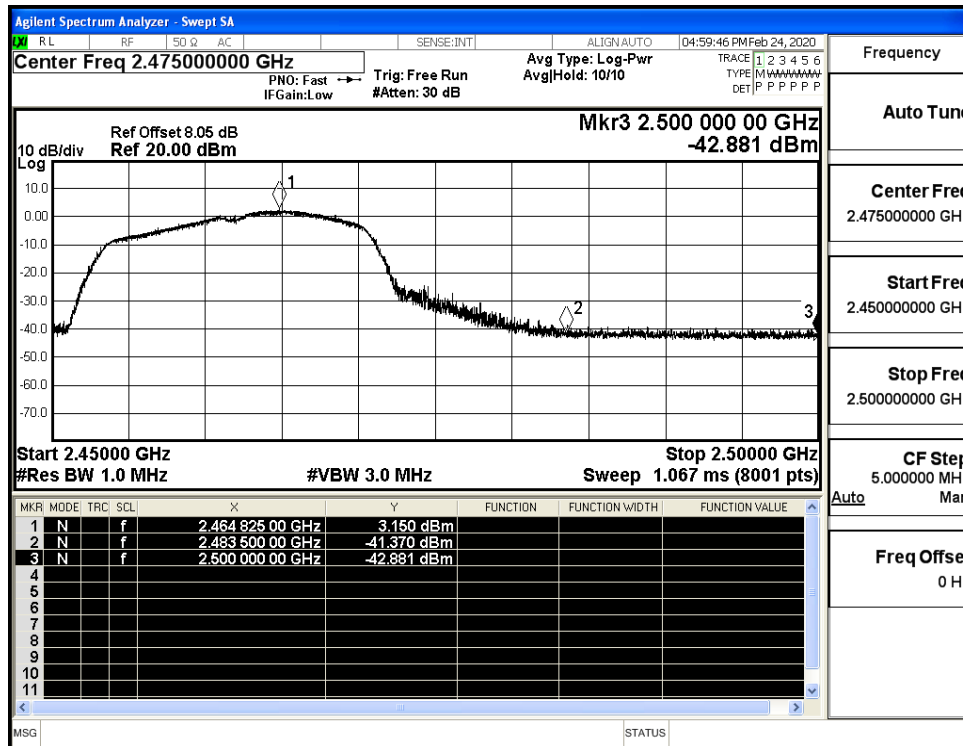
## Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



## Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV

