

## Appendix C

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet PC

Trade Mark: N/A

Test Model: W102

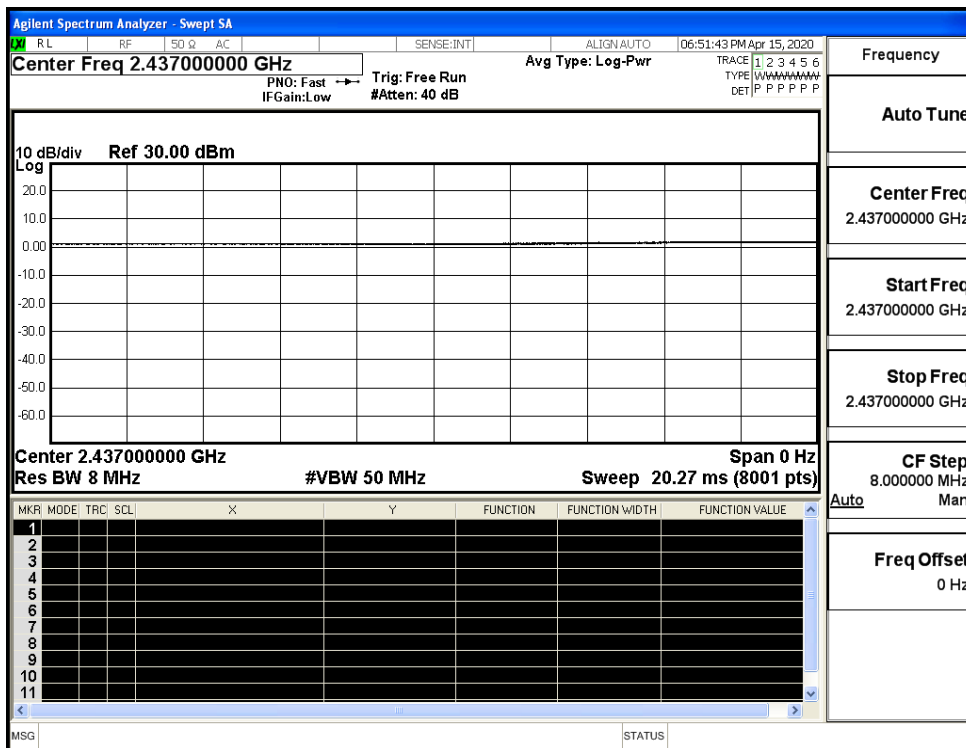
#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22.5°C    |
| Relative Humidity: | 52.9%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Li Huan   |
| Supervised by:     | Tom.Liu   |

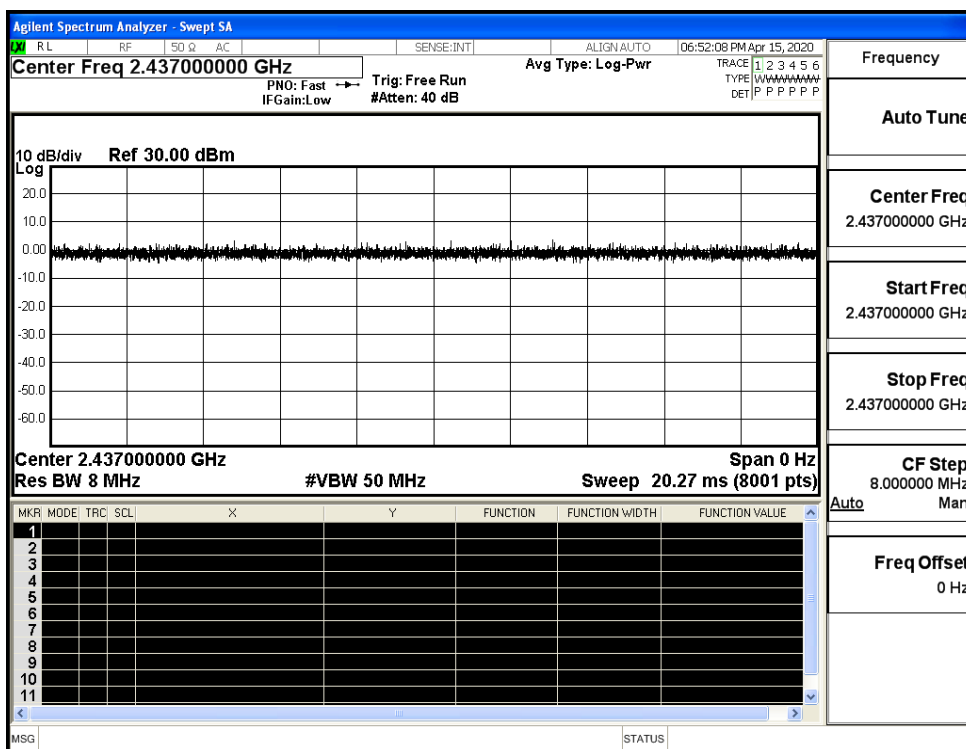
#### C.1 Duty Cycle

| Test Mode | Test Channel | Ant  | Duty Cycle[%] | Verdict |
|-----------|--------------|------|---------------|---------|
| 11B       | 2437         | Ant1 | 100           | PASS    |
| 11G       | 2437         | Ant1 | 100           | PASS    |
| 11N20SISO | 2437         | Ant1 | 100           | PASS    |
| 11N40SISO | 2437         | Ant1 | 100           | PASS    |

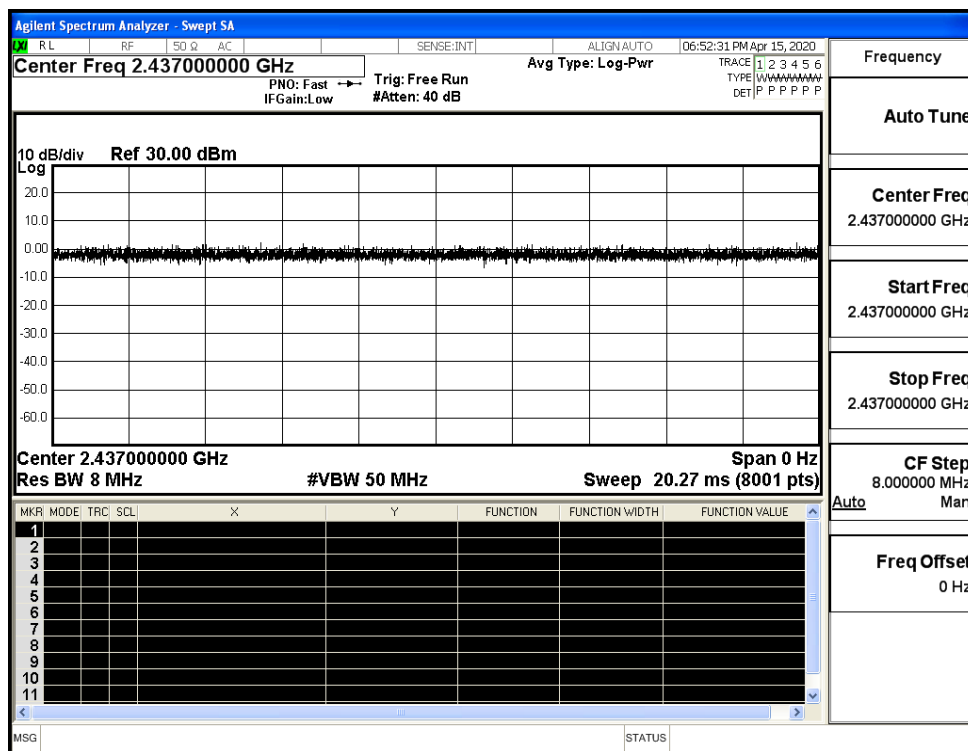
## Duty Cycle\_11B\_2437\_Ant1



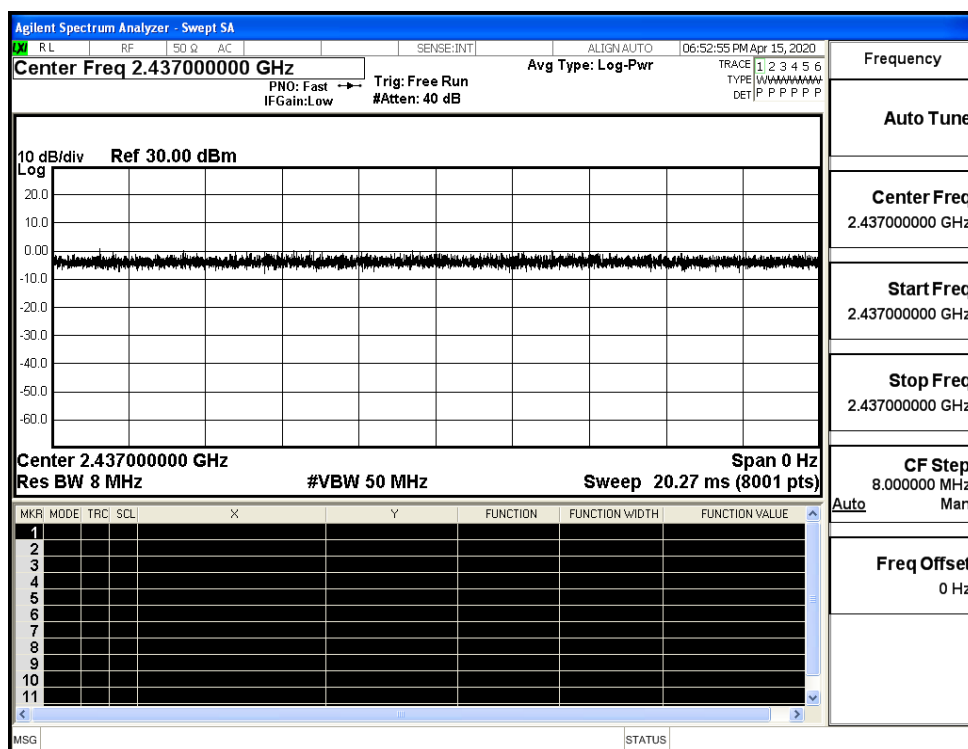
## Duty Cycle\_11G\_2437\_Ant1



## Duty Cycle\_11N20SISO\_2437\_Ant1



## Duty Cycle\_11N40SISO\_2437\_Ant1



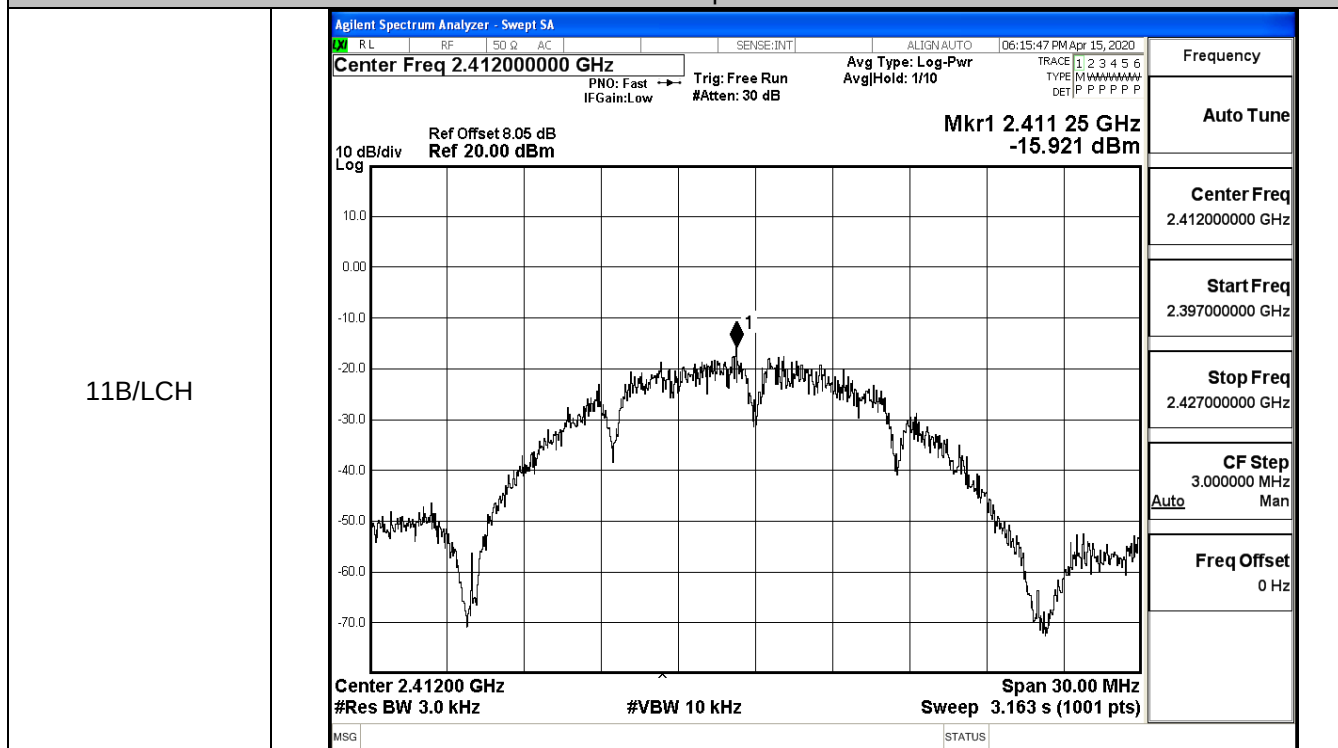
**C.2 Maximum Conducted Output Power**

| Mode      | Channel | Meas.Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|------------------|-------------|---------|
| 11B       | LCH     | 11.3             | 30          | PASS    |
|           | MCH     | 12.17            | 30          | PASS    |
|           | HCH     | 12.9             | 30          | PASS    |
| 11G       | LCH     | 12.9             | 30          | PASS    |
|           | MCH     | 11.95            | 30          | PASS    |
|           | HCH     | 11.71            | 30          | PASS    |
| 11N20SISO | LCH     | 11.6             | 30          | PASS    |
|           | MCH     | 11.78            | 30          | PASS    |
|           | HCH     | 11.56            | 30          | PASS    |
| 11N40SISO | LCH     | 12.03            | 30          | PASS    |
|           | MCH     | 12.1             | 30          | PASS    |
|           | HCH     | 11.44            | 30          | PASS    |

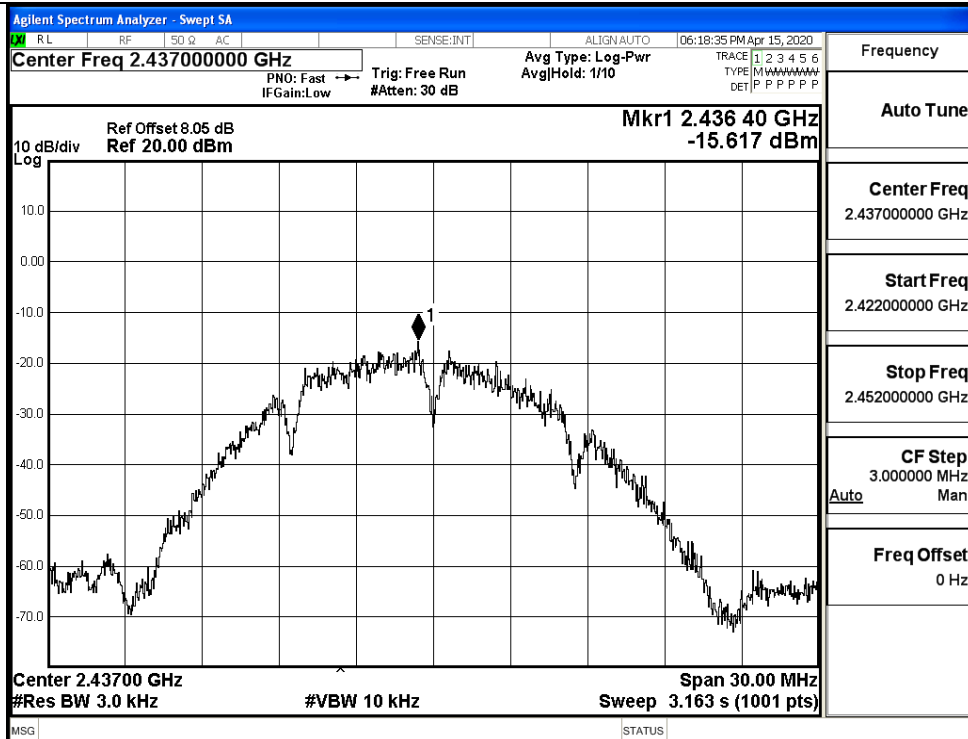
### C.3 Maximum Power Spectral Density

| Mode      | Channel | Meas.Level [dBm/3KHz] | Limit [dBm/3KHz] | Verdict |
|-----------|---------|-----------------------|------------------|---------|
| 11B       | LCH     | -15.921               | 8                | PASS    |
|           | MCH     | -15.617               | 8                | PASS    |
|           | HCH     | -15.705               | 8                | PASS    |
| 11G       | LCH     | -23.295               | 8                | PASS    |
|           | MCH     | -22.302               | 8                | PASS    |
|           | HCH     | -22.260               | 8                | PASS    |
| 11N20SISO | LCH     | -23.701               | 8                | PASS    |
|           | MCH     | -23.901               | 8                | PASS    |
|           | HCH     | -25.473               | 8                | PASS    |
| 11N40SISO | LCH     | -21.047               | 8                | PASS    |
|           | MCH     | -14.588               | 8                | PASS    |
|           | HCH     | -15.219               | 8                | PASS    |

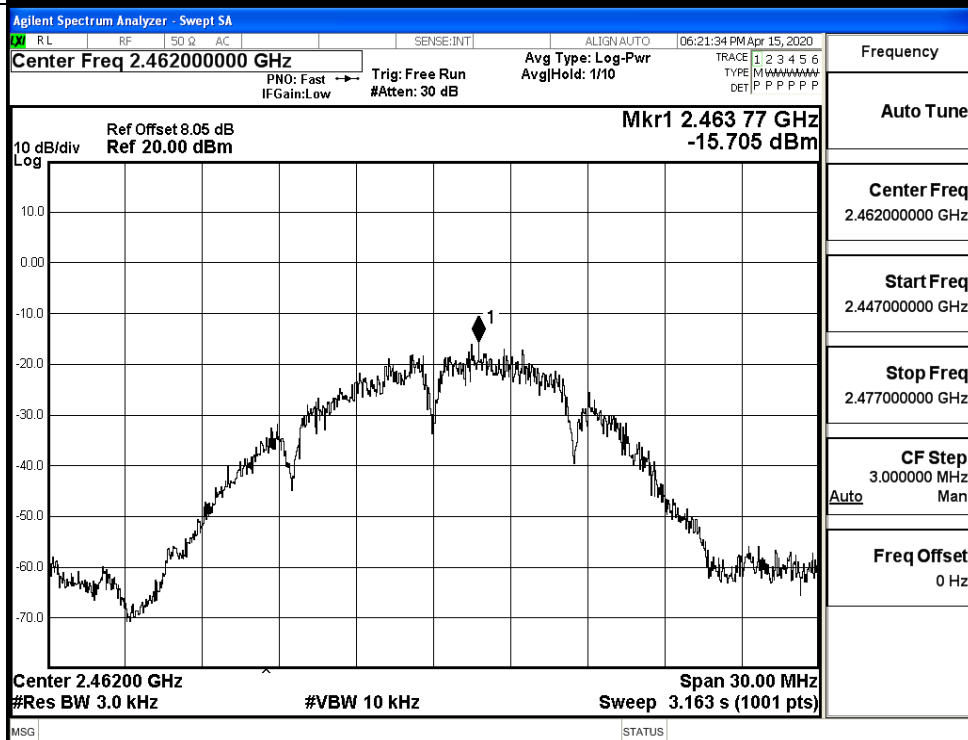
#### Test Graphs



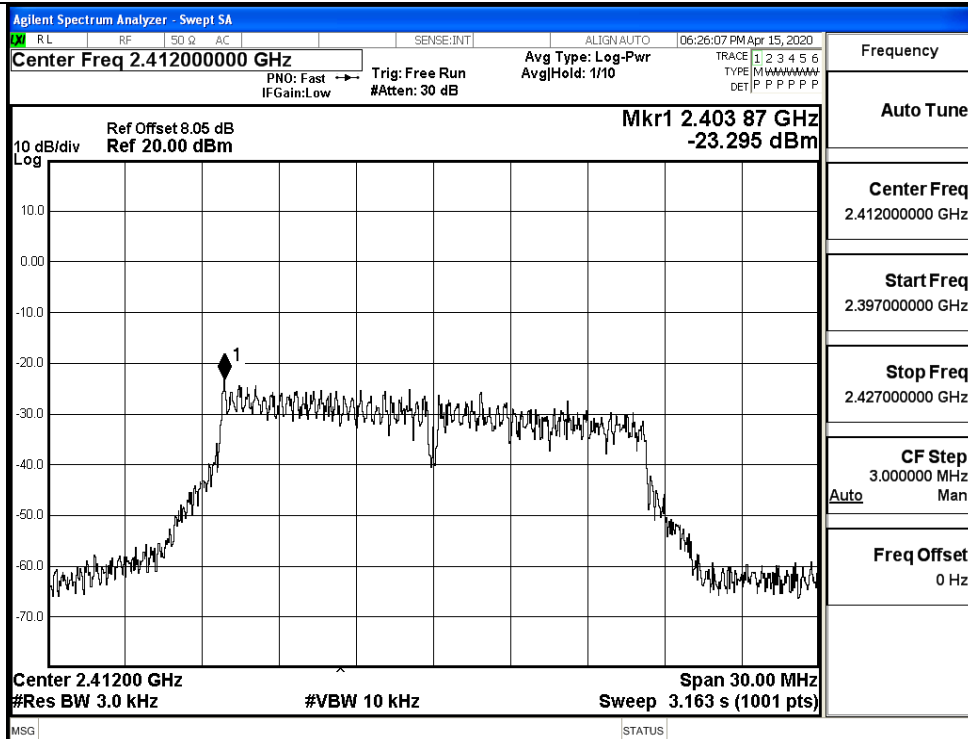
11B/MCH



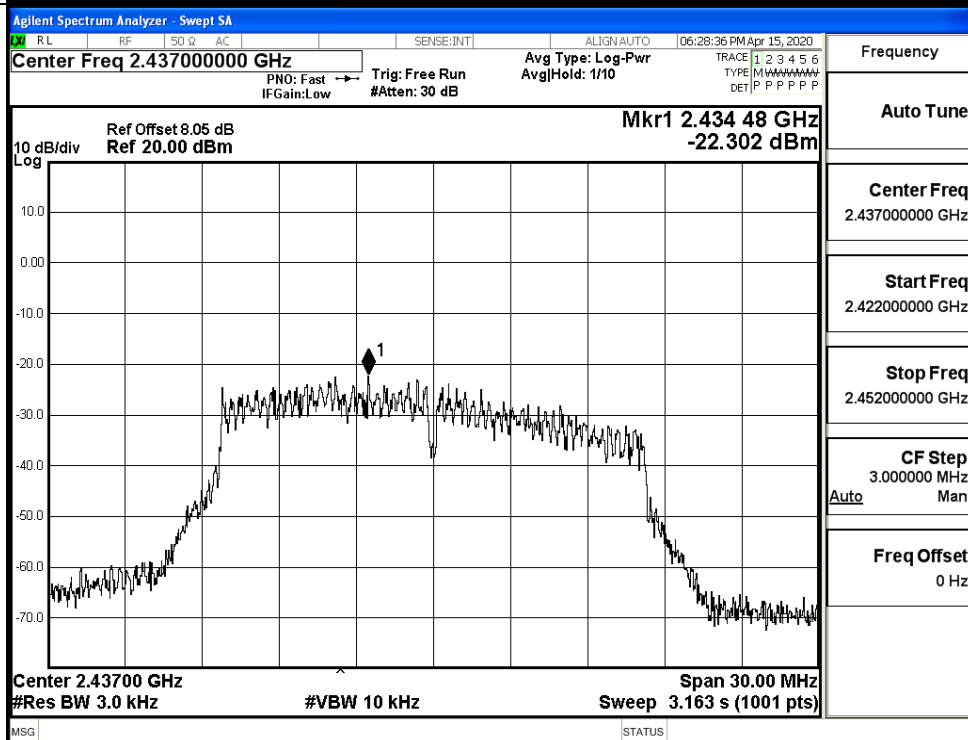
11B/HCH



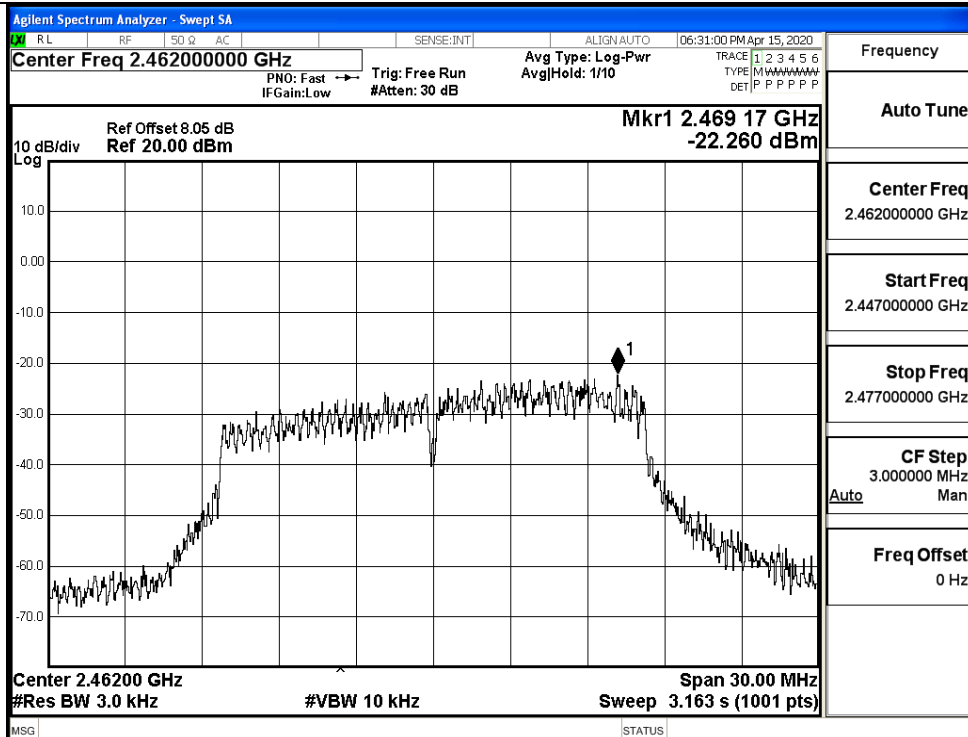
11G/LCH



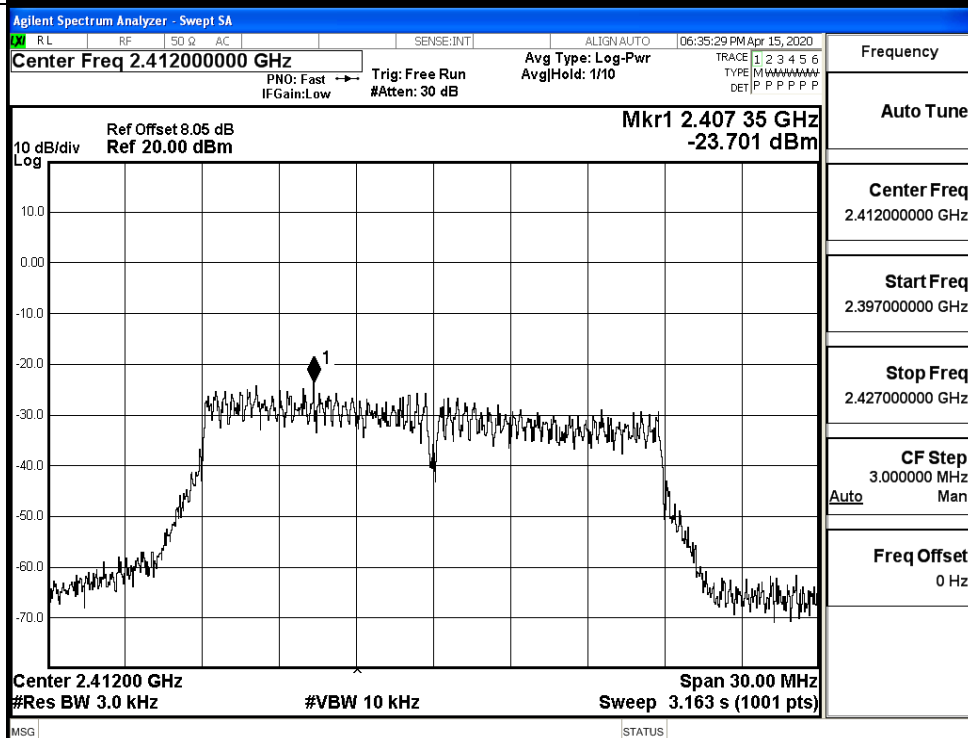
11G/MCH



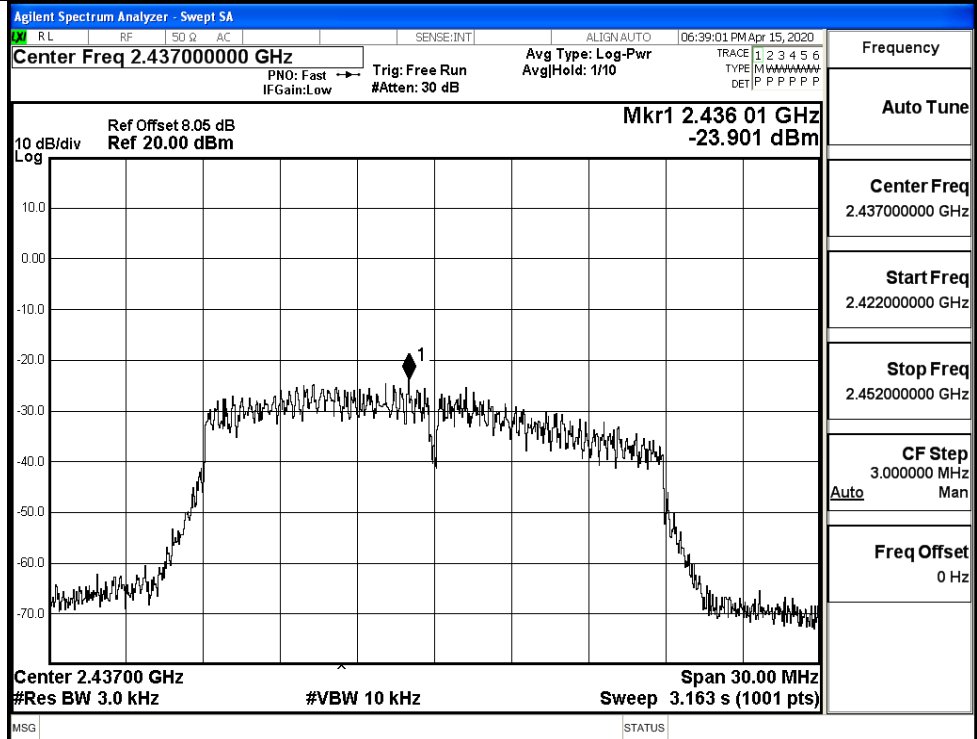
11G/HCH



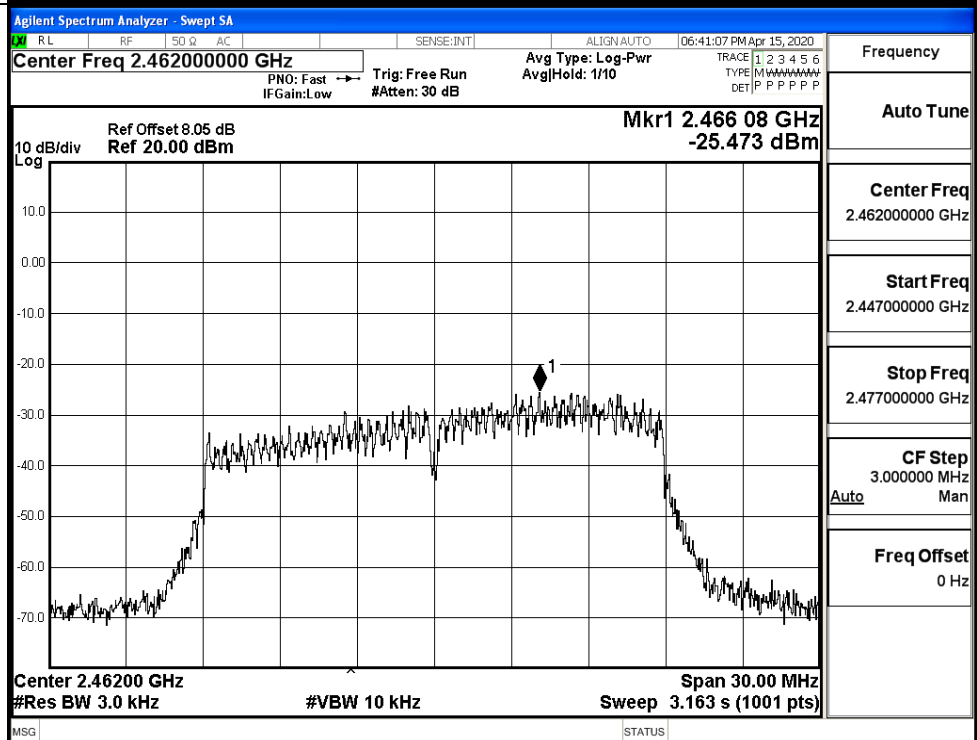
11N20SISO/LCH



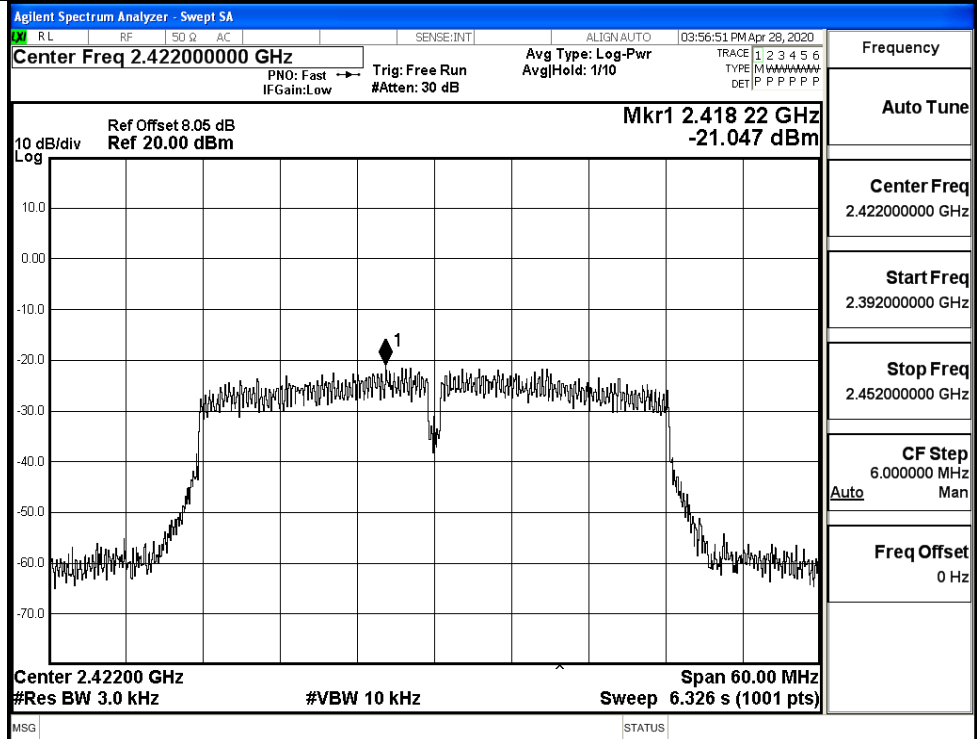
11N20SISO/MCH



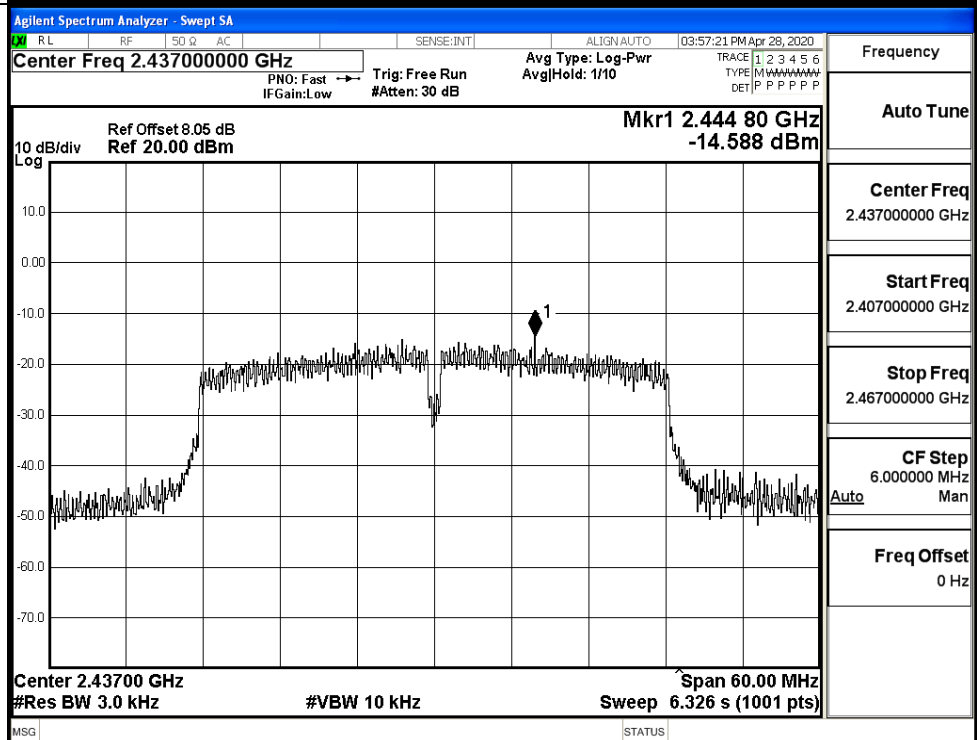
11N20SISO/HCH



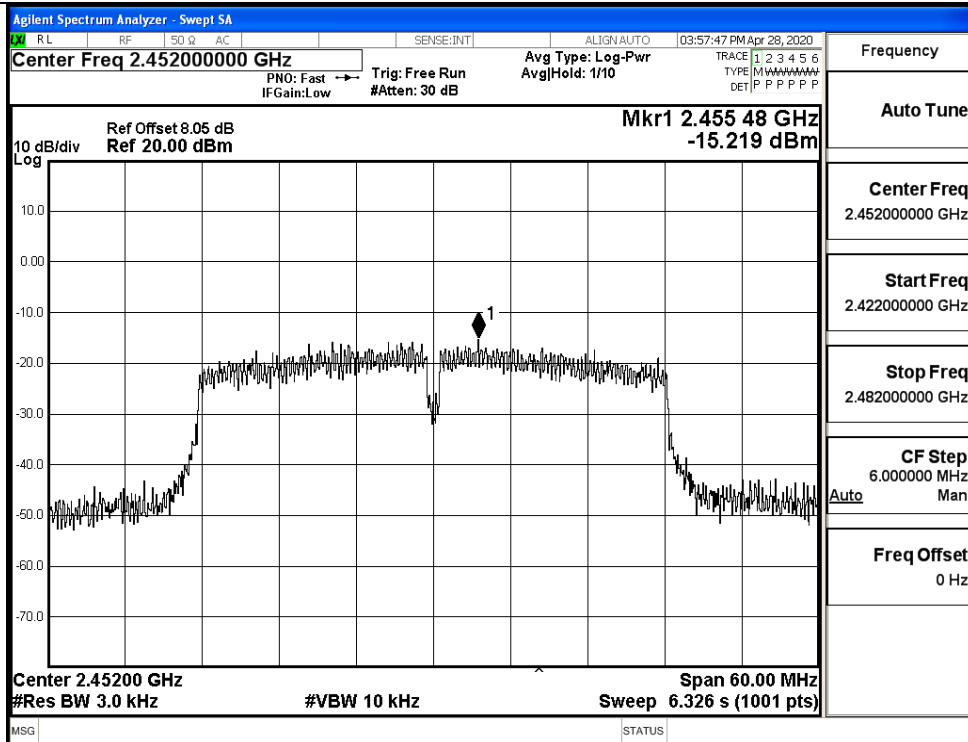
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

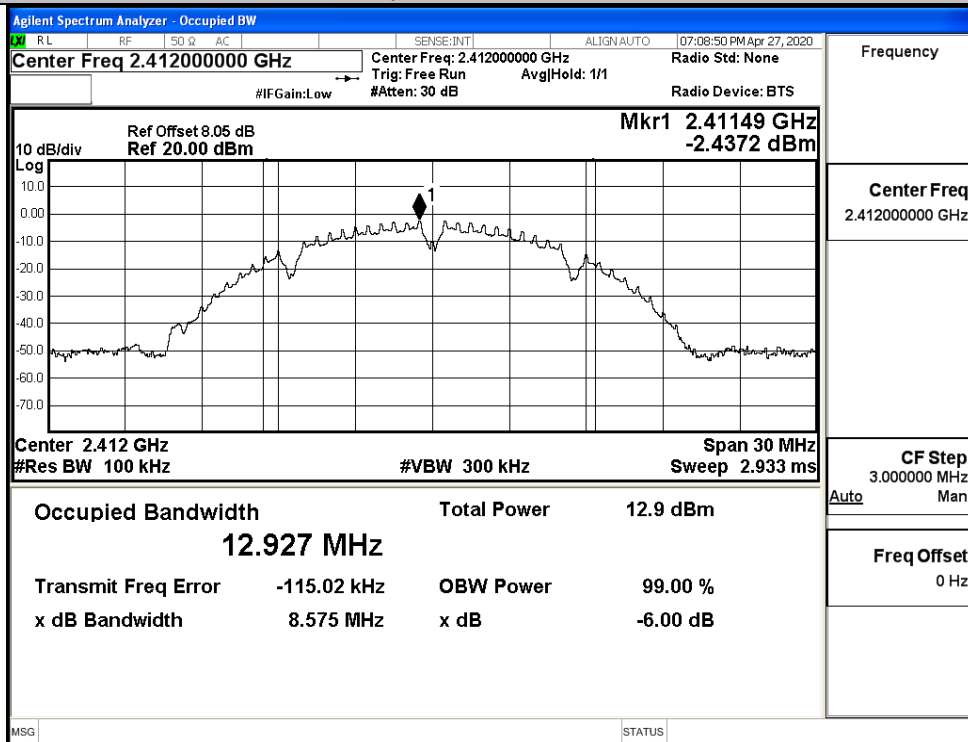


## C.4 6dB Bandwidth

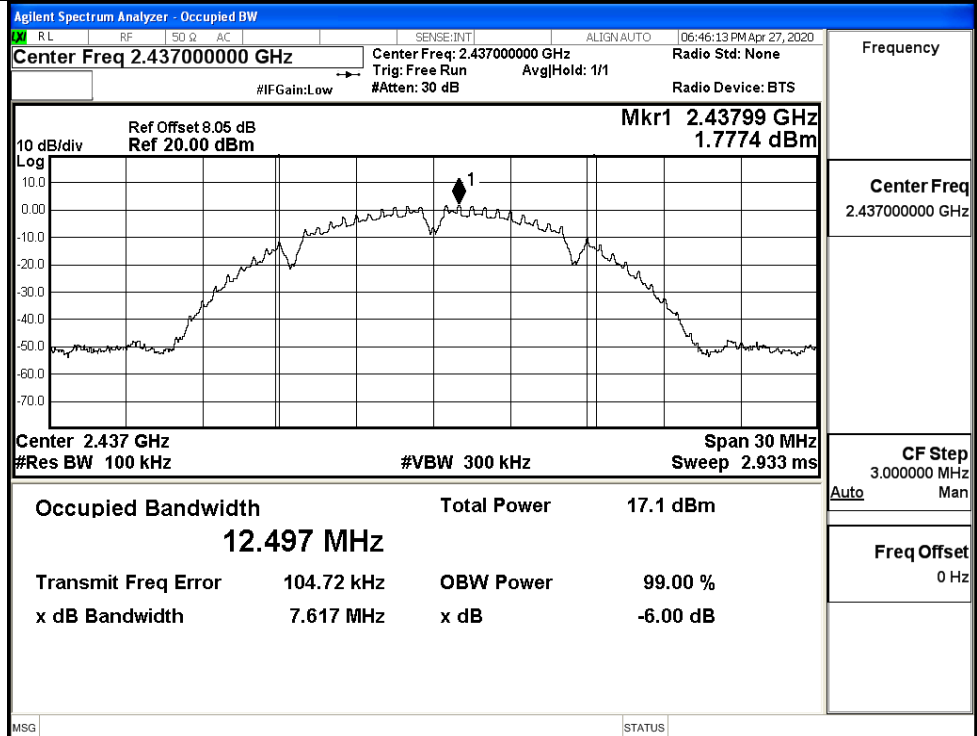
| Mode      | Channel | 6dB Bandwidth [MHz] | Limit [MHz] | Verdict |
|-----------|---------|---------------------|-------------|---------|
| 11B       | LCH     | 8.575               | $\geq 0.5$  | PASS    |
|           | MCH     | 7.617               | $\geq 0.5$  | PASS    |
|           | HCH     | 8.556               | $\geq 0.5$  | PASS    |
| 11G       | LCH     | 16.49               | $\geq 0.5$  | PASS    |
|           | MCH     | 15.64               | $\geq 0.5$  | PASS    |
|           | HCH     | 16.44               | $\geq 0.5$  | PASS    |
| 11N20SISO | LCH     | 17.75               | $\geq 0.5$  | PASS    |
|           | MCH     | 17.09               | $\geq 0.5$  | PASS    |
|           | HCH     | 17.73               | $\geq 0.5$  | PASS    |
| 11N40SISO | LCH     | 36.51               | $\geq 0.5$  | PASS    |
|           | MCH     | 26.37               | $\geq 0.5$  | PASS    |
|           | HCH     | 31.71               | $\geq 0.5$  | PASS    |

## Test Graphs

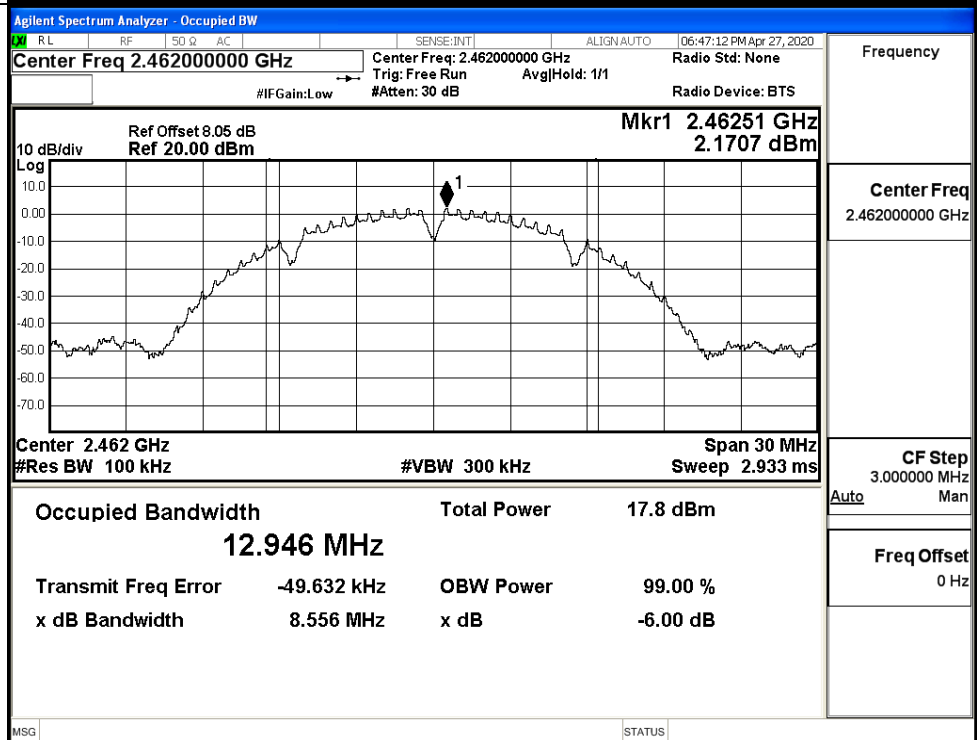
11B/LCH



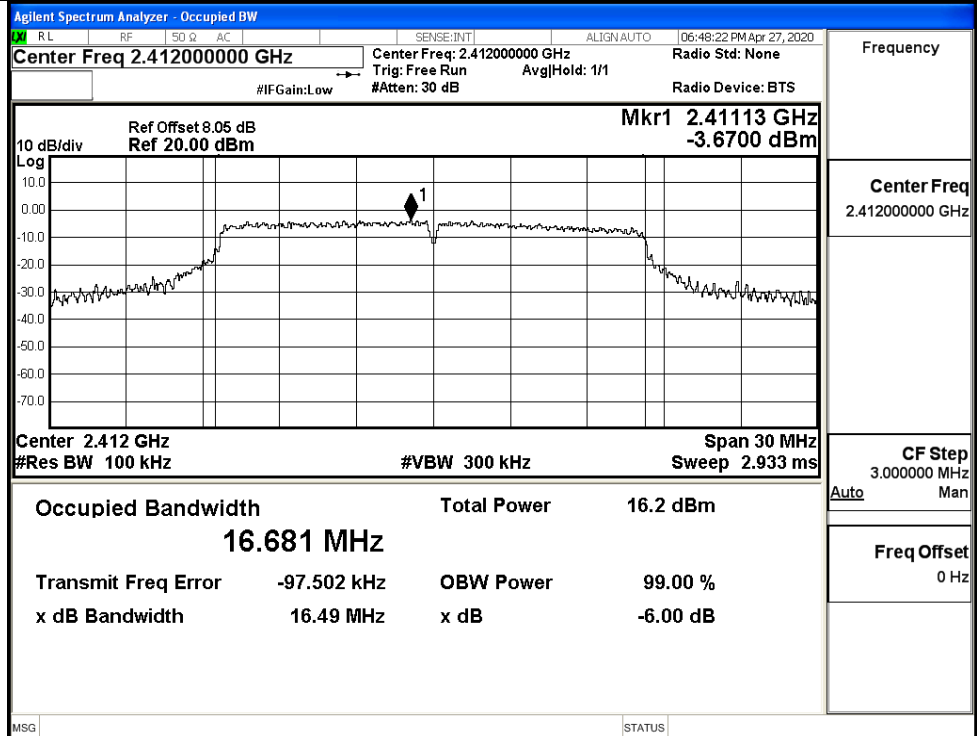
11B/MCH



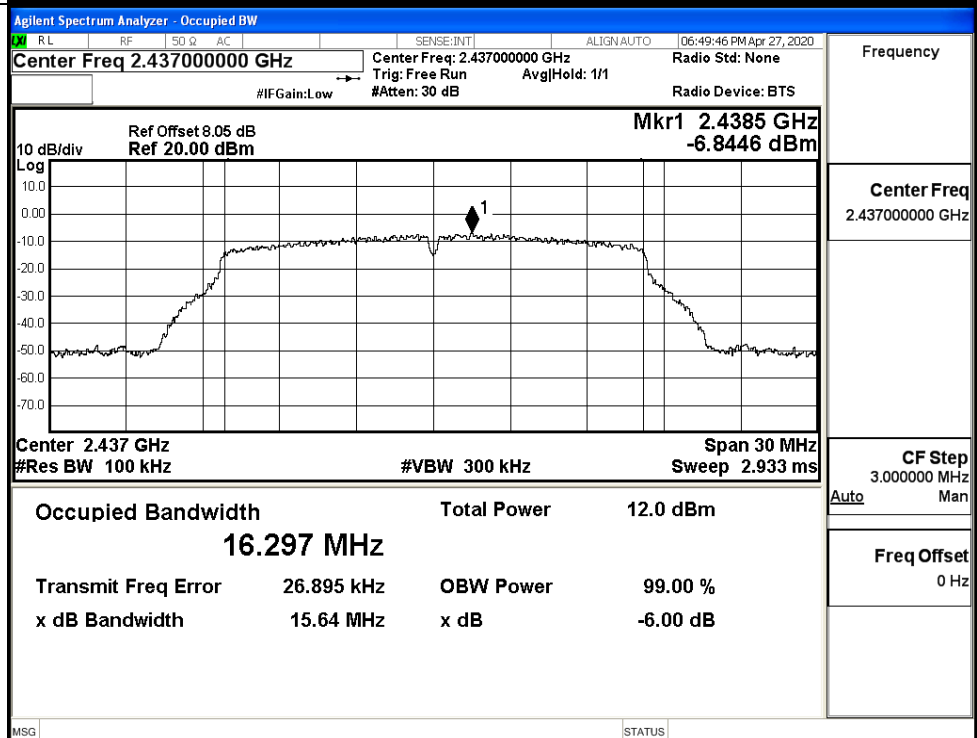
11B/HCH



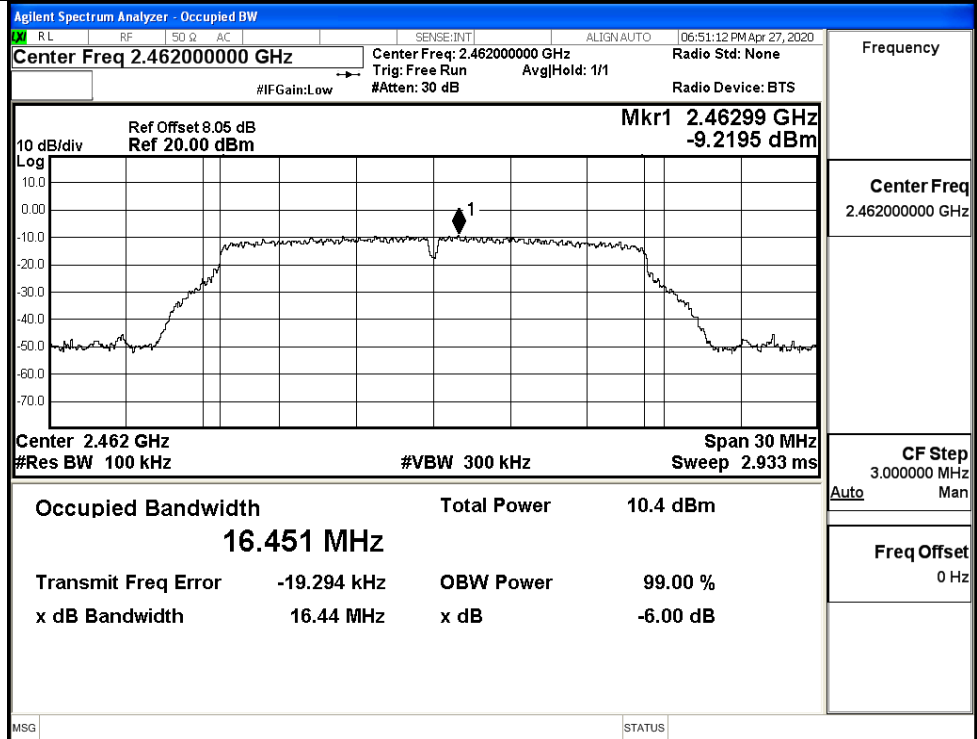
11G/LCH



11G/MCH



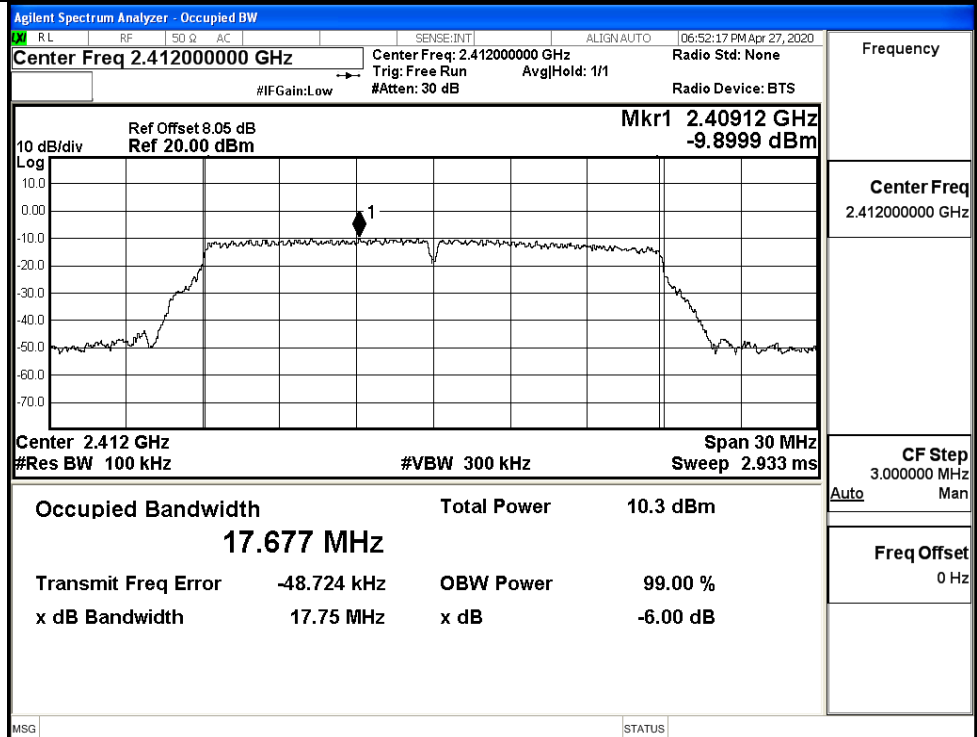
11G/HCH



Frequency

Center Freq  
2.462000000 GHzCF Step  
3.000000 MHz  
Auto ManFreq Offset  
0 Hz

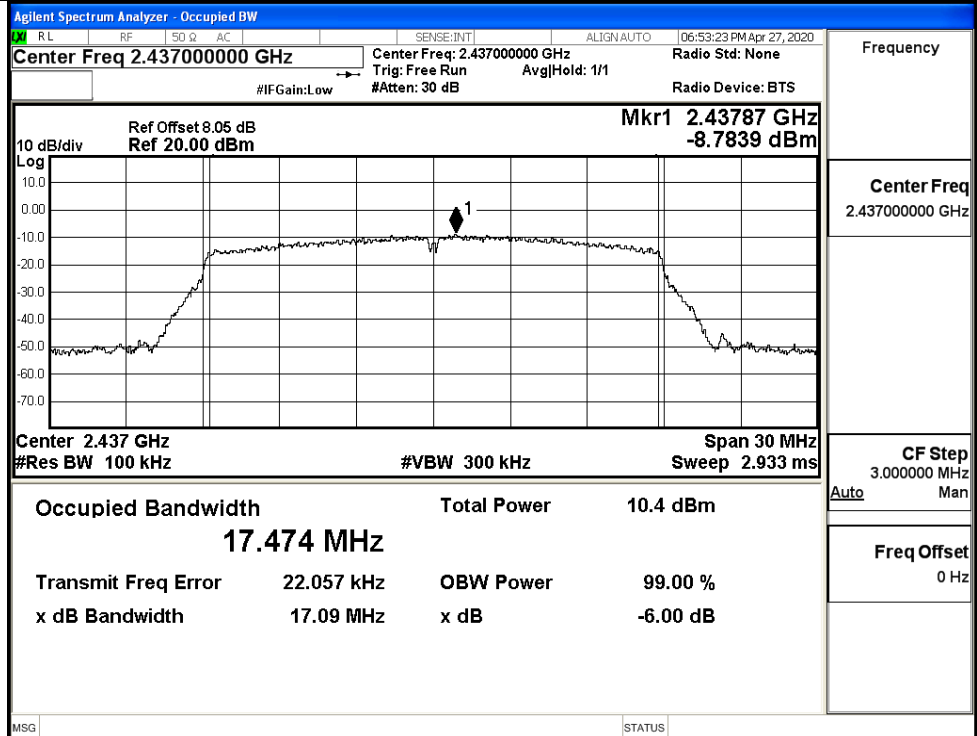
11N20SISO/LCH



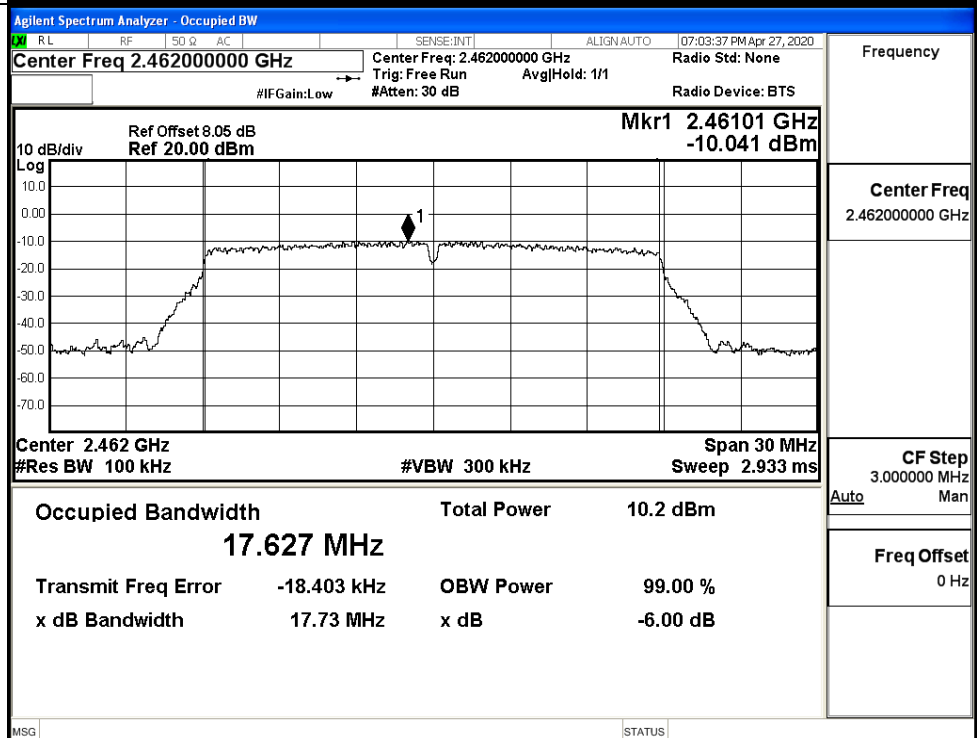
Frequency

Center Freq  
2.412000000 GHzCF Step  
3.000000 MHz  
Auto ManFreq Offset  
0 Hz

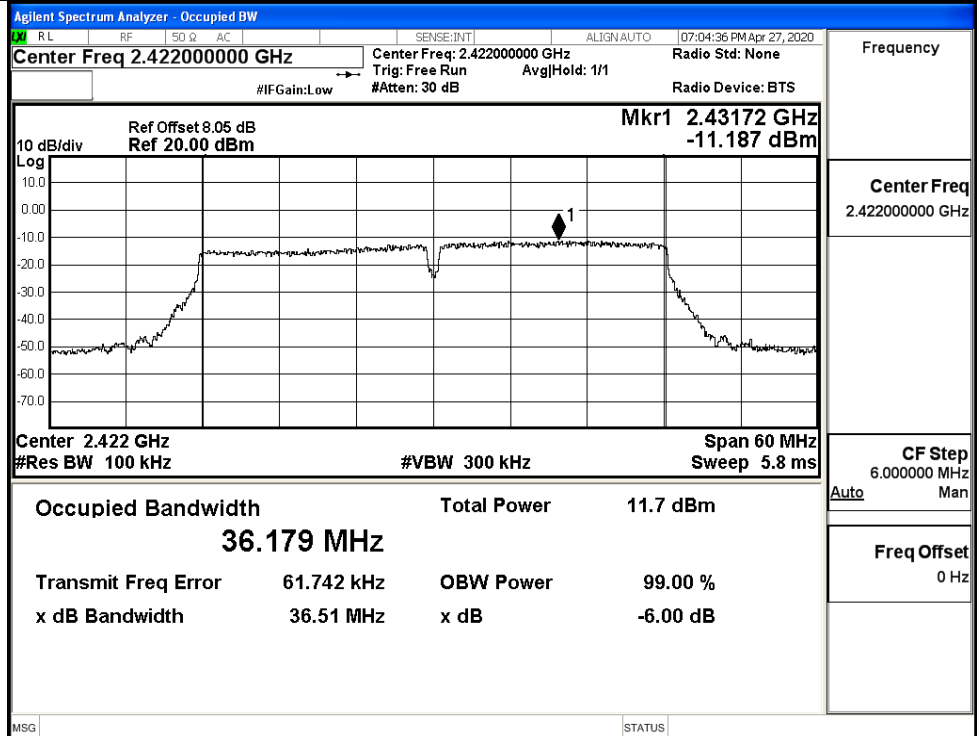
11N20SISO/MCH



11N20SISO/HCH



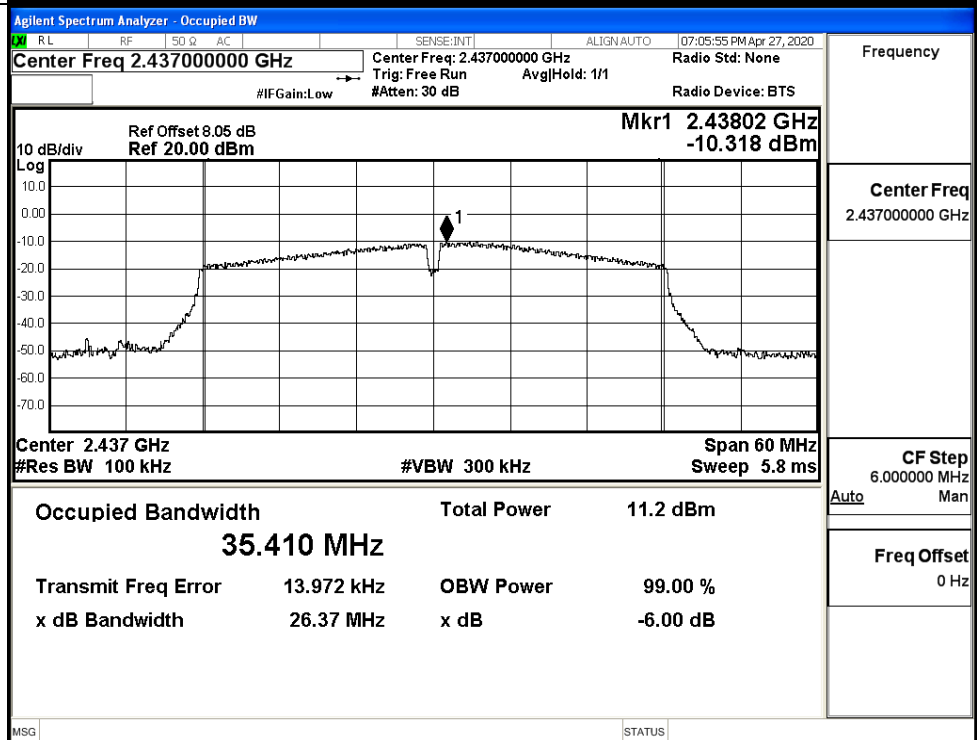
11N40SISO/LCH



Frequency

Center Freq  
2.422000000 GHzCF Step  
6.000000 MHz  
Auto ManFreq Offset  
0 Hz

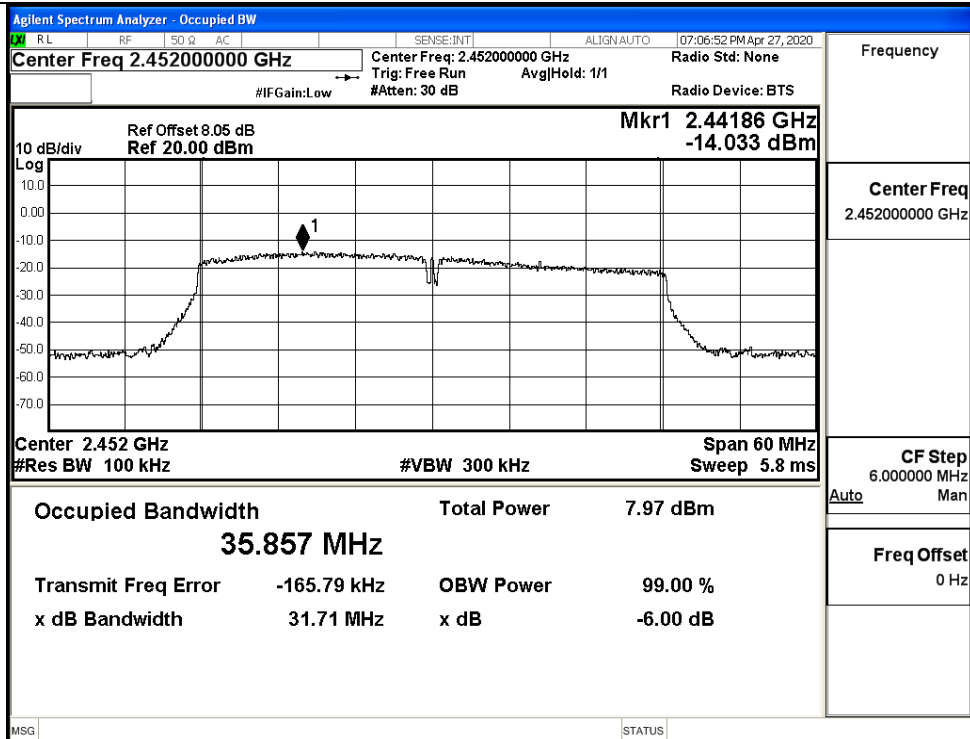
11N40SISO/MCH



Frequency

Center Freq  
2.437000000 GHzCF Step  
6.000000 MHz  
Auto ManFreq Offset  
0 Hz

11N40SISO/HCH

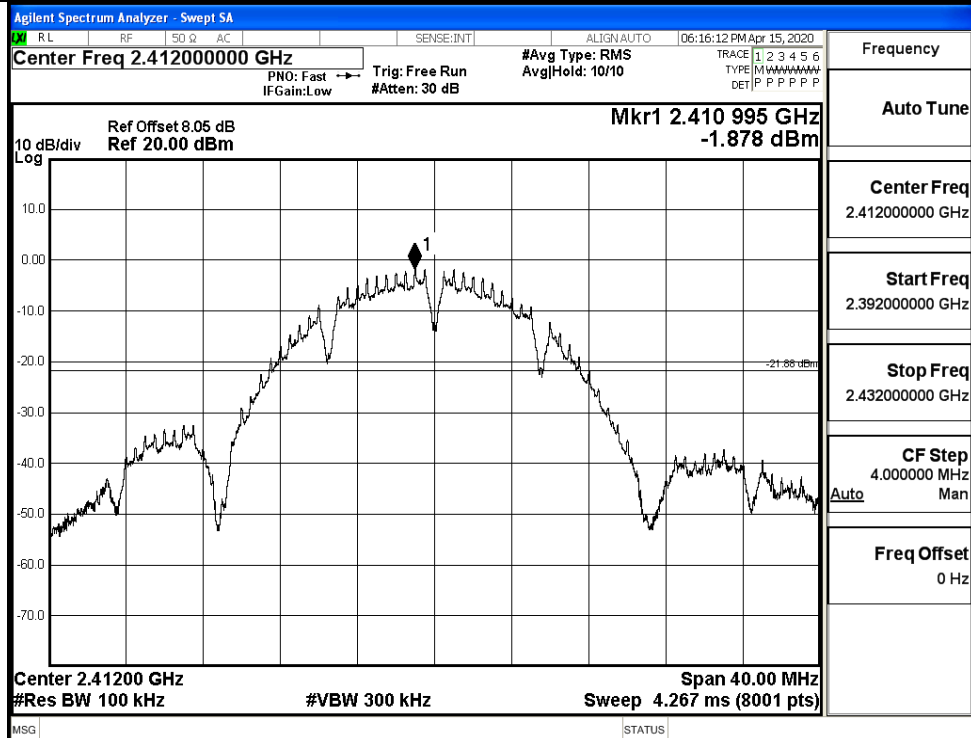


## C.5 RF Conducted Spurious Emissions

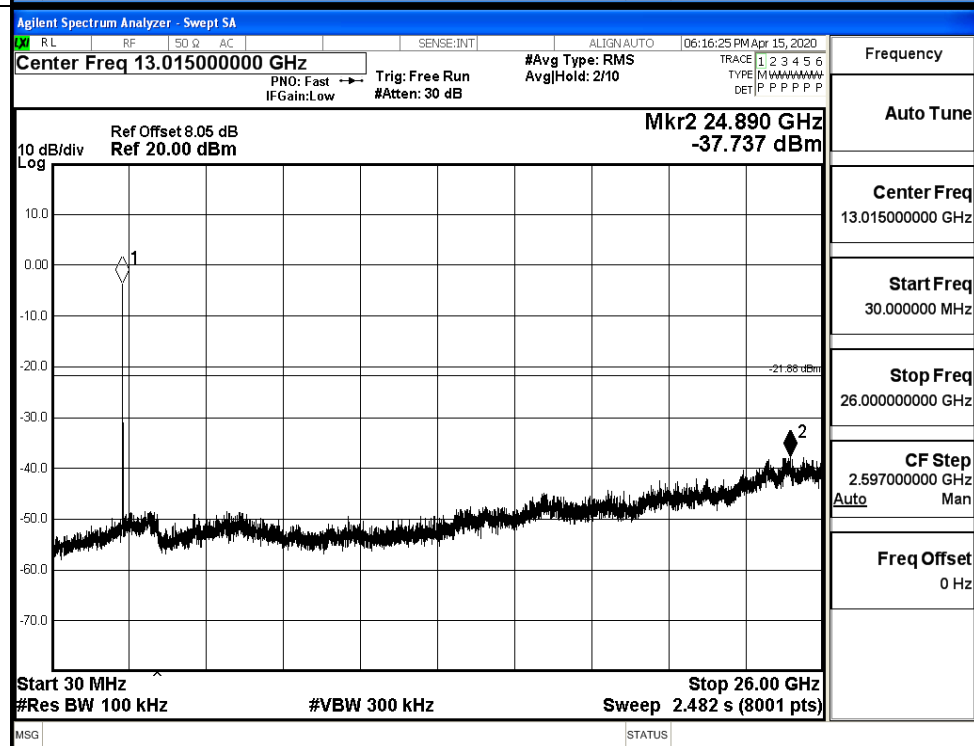
| Mode          | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|---------------|---------|------------|------------------|-------------|---------|
| 11B           | LCH     | -1.878     | -37.737          | -21.878     | PASS    |
|               | MCH     | -1.585     | -37.401          | -21.585     | PASS    |
|               | HCH     | -1.324     | -37.237          | -21.324     | PASS    |
| 11G           | LCH     | -11.113    | -36.775          | -31.113     | PASS    |
|               | MCH     | -10.318    | -37.625          | -30.318     | PASS    |
|               | HCH     | -9.598     | -38.085          | -29.598     | PASS    |
| 11N20<br>SISO | LCH     | -12.271    | -37.387          | -32.271     | PASS    |
|               | MCH     | -11.588    | -37.331          | -31.588     | PASS    |
|               | HCH     | -11.956    | -38.078          | -31.956     | PASS    |
| 11N40<br>SISO | LCH     | -13.982    | -38.006          | -33.982     | PASS    |
|               | MCH     | -12.195    | -37.775          | -32.195     | PASS    |
|               | HCH     | -15.432    | -36.341          | -35.432     | PASS    |

## 11B LCH Graphs

Pref/11B/LCH

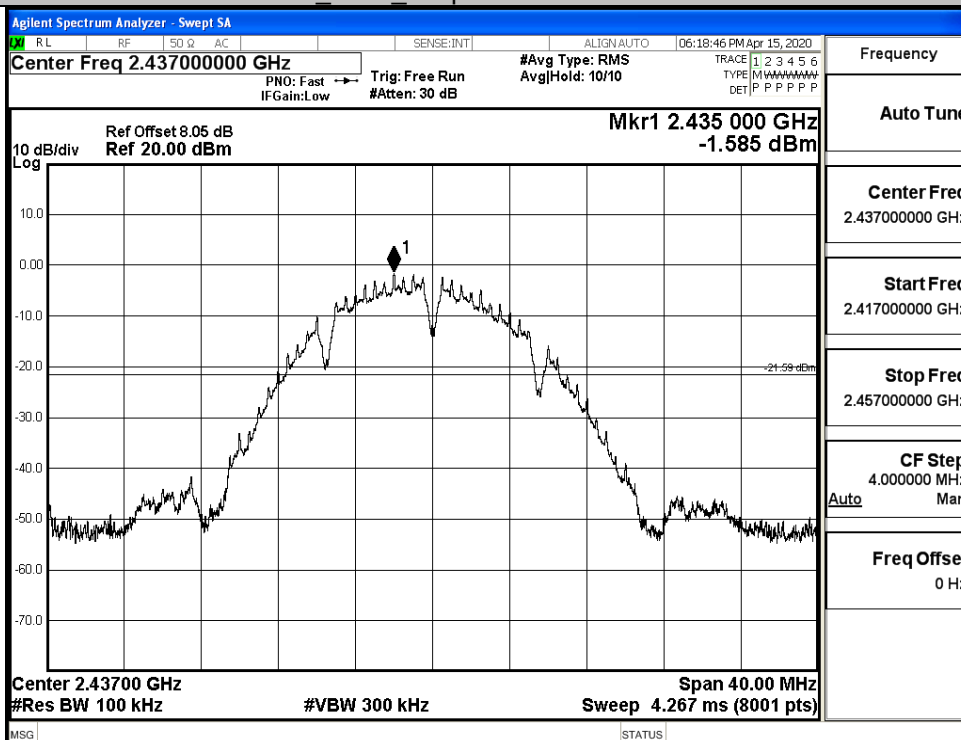


Puw/11B/LCH

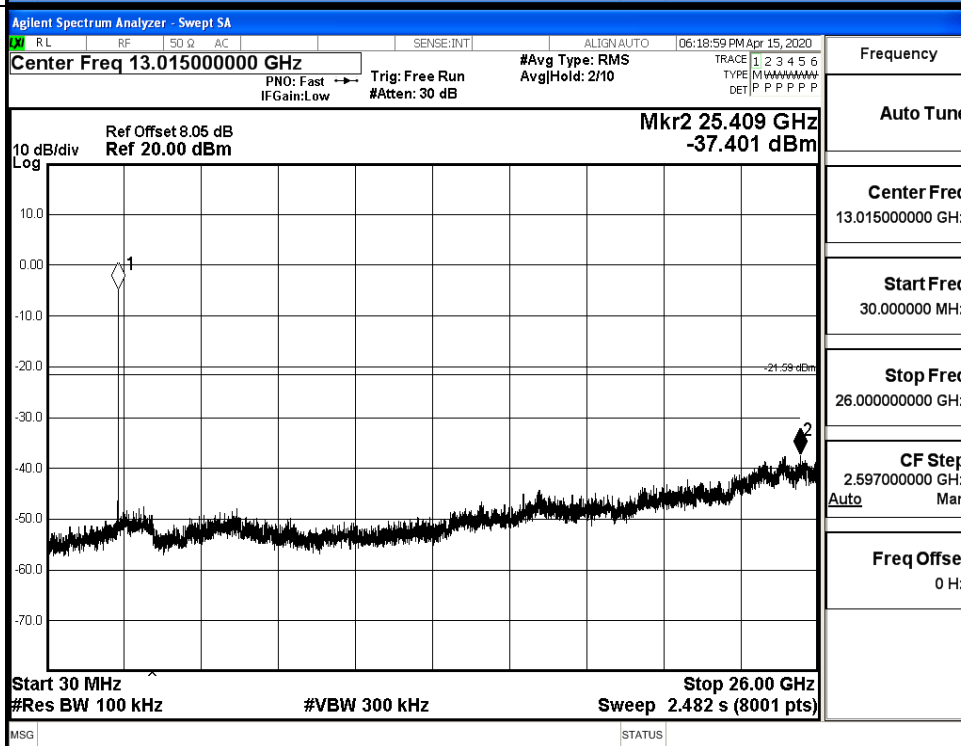


## 11B MCH Graphs

Pref/11B/MCH

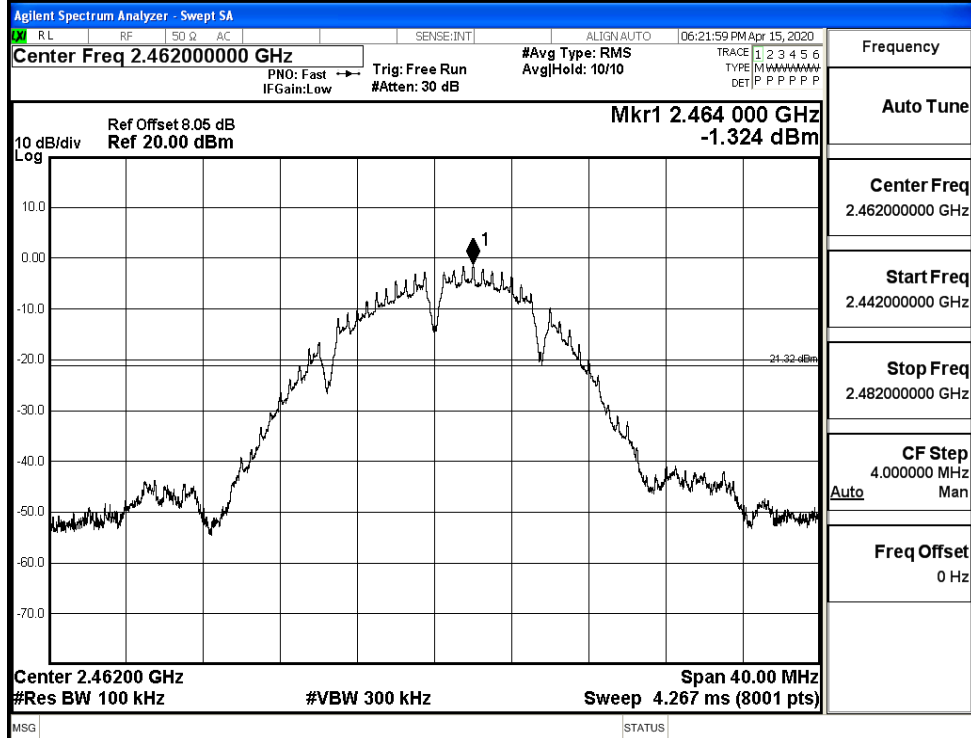


Puw/11B/MCH

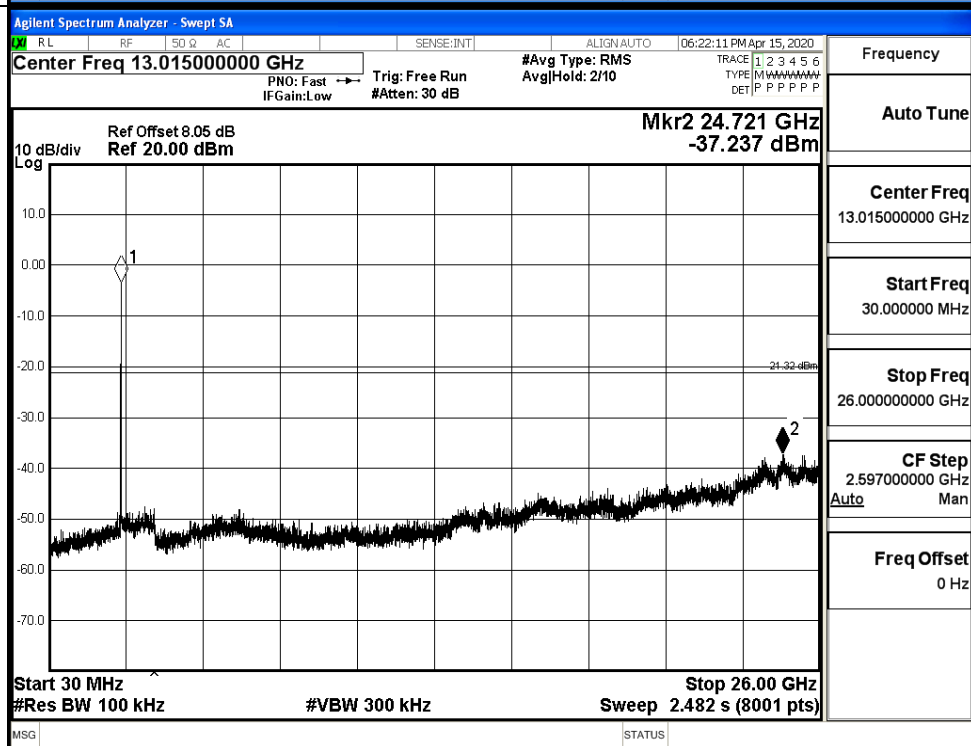


## 11B HCH Graphs

Pref/11B/HCH

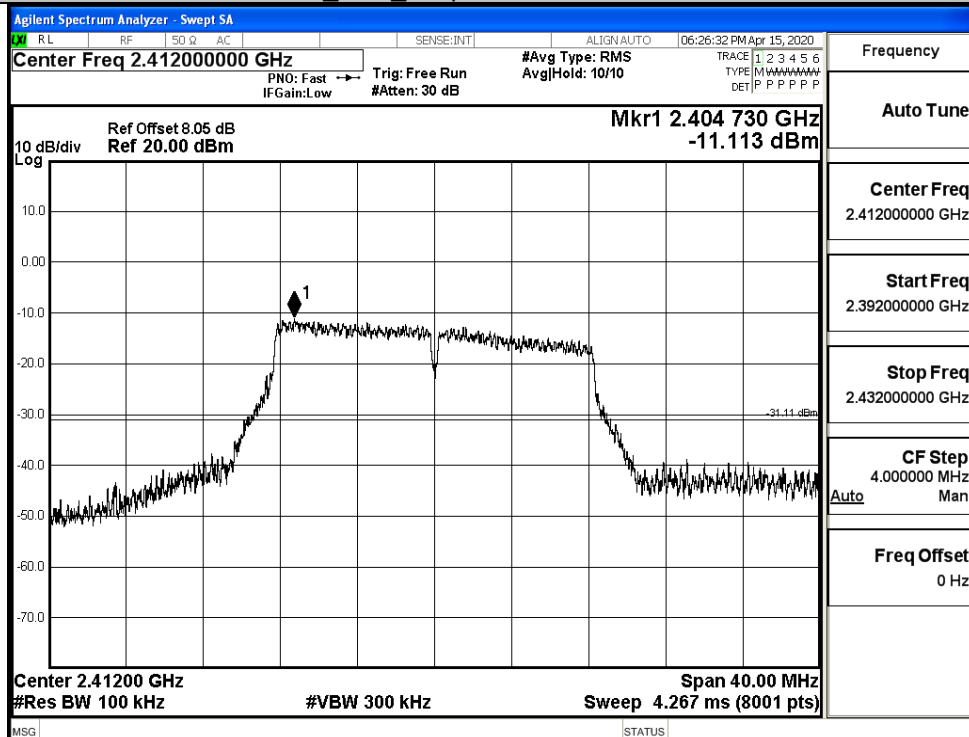


Puw/11B/HCH

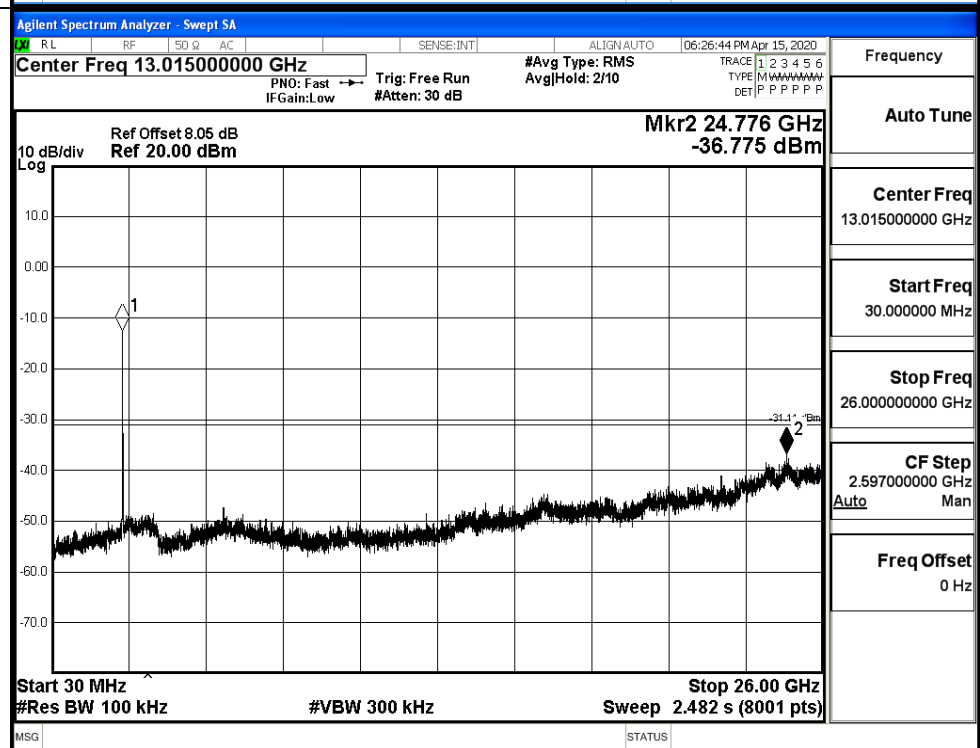


## 11G LCH Graphs

Pref/11G/LCH

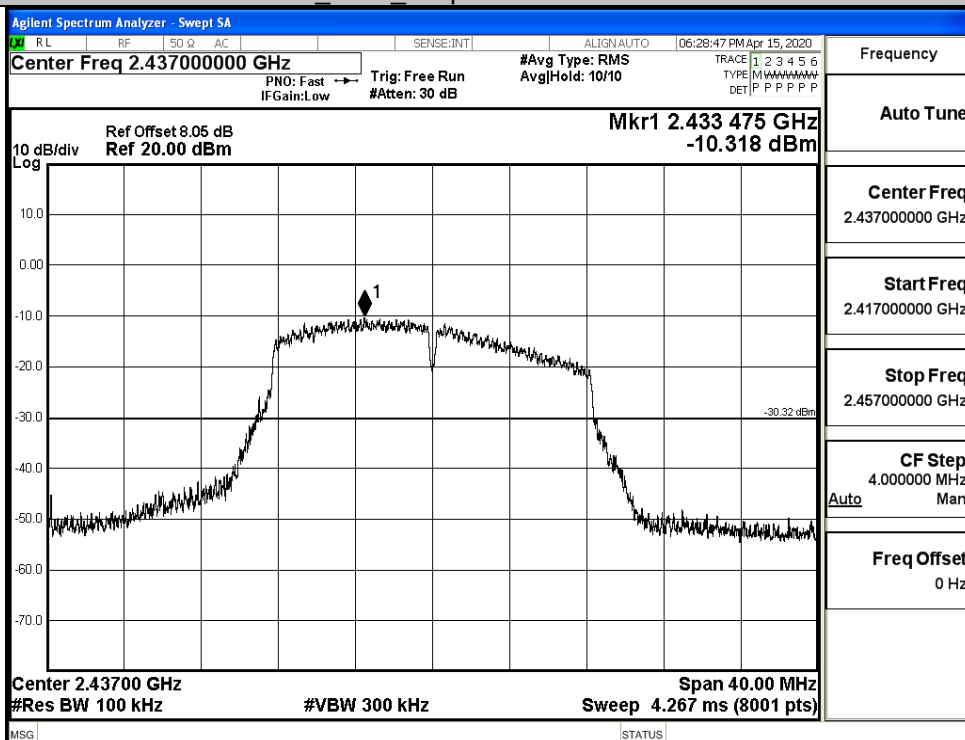


Puw/11G/LCH

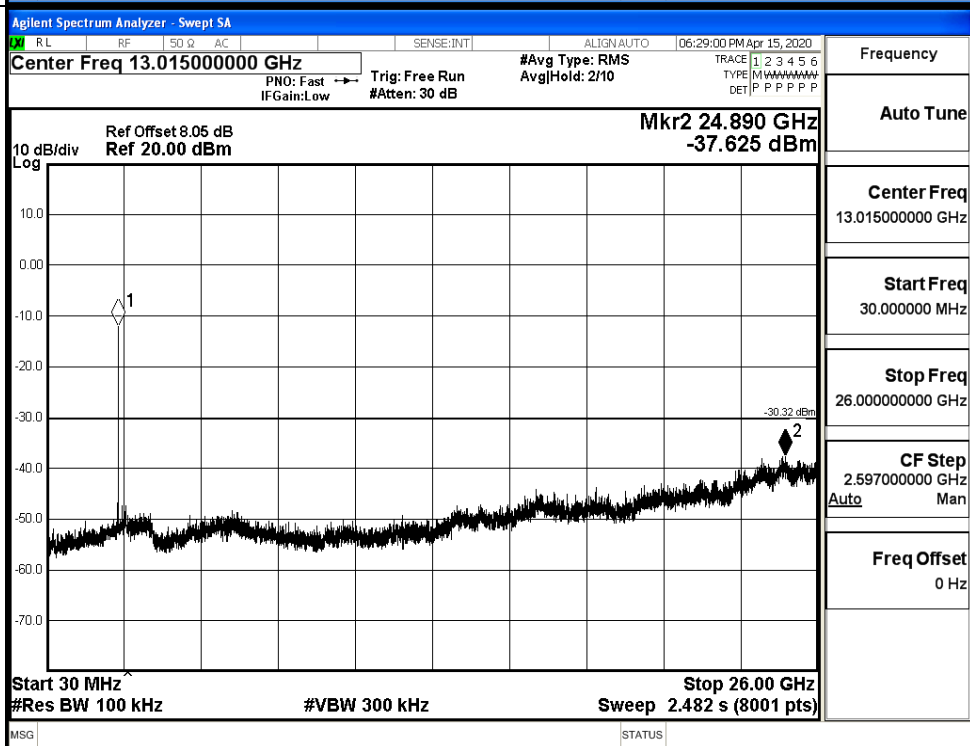


## 11G MCH Graphs

Pref/11G/MCH

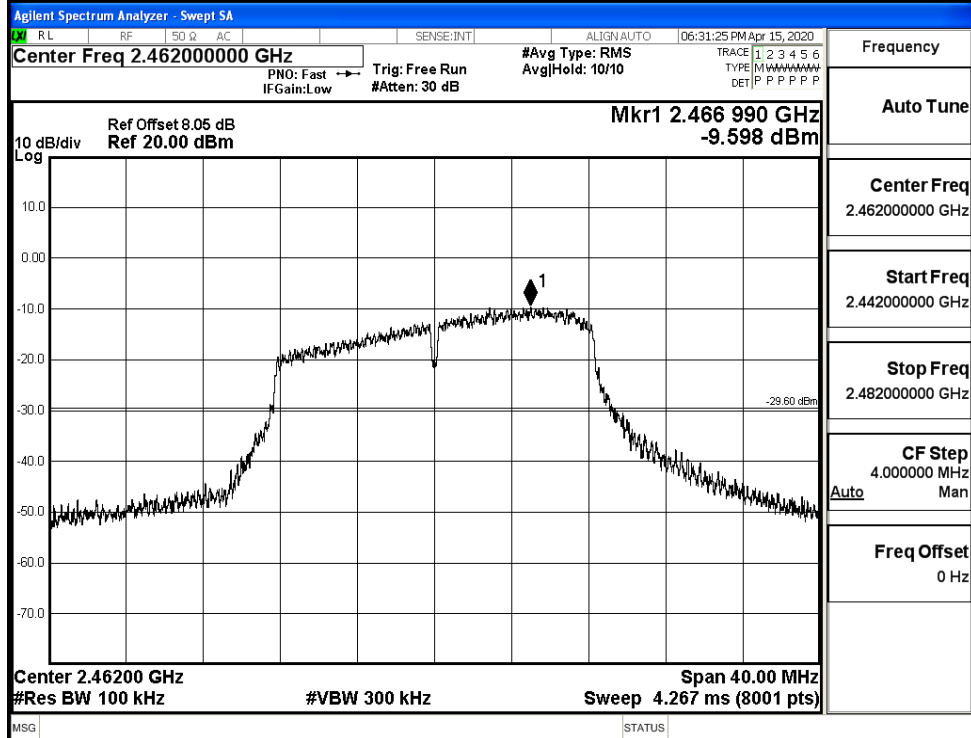


Puw/11G/MCH

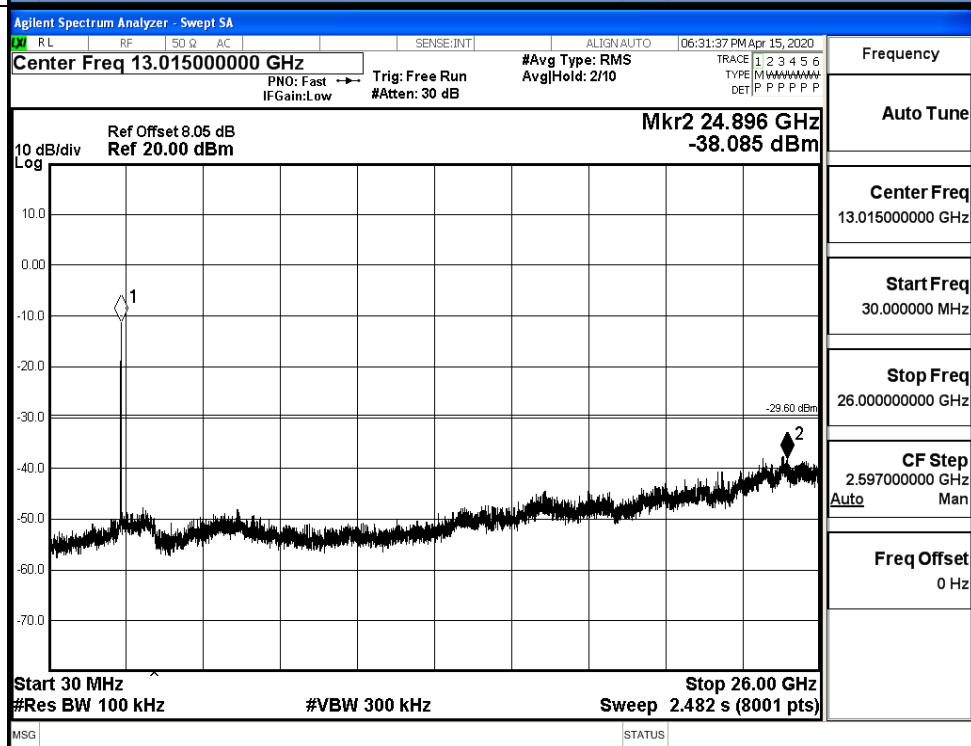


## 11G HCH Graphs

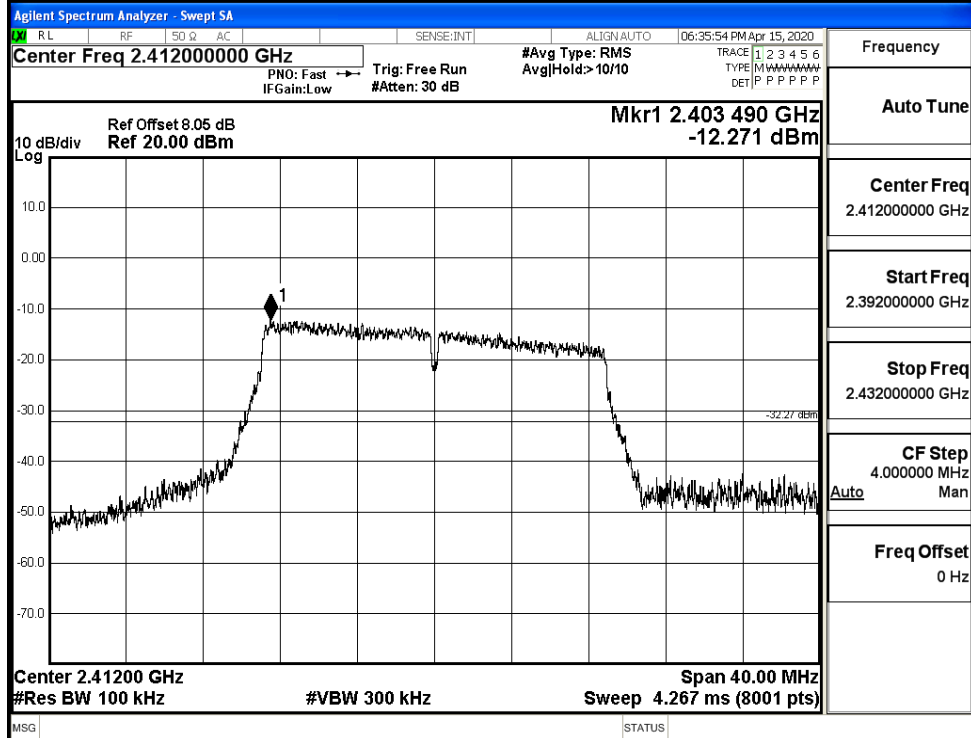
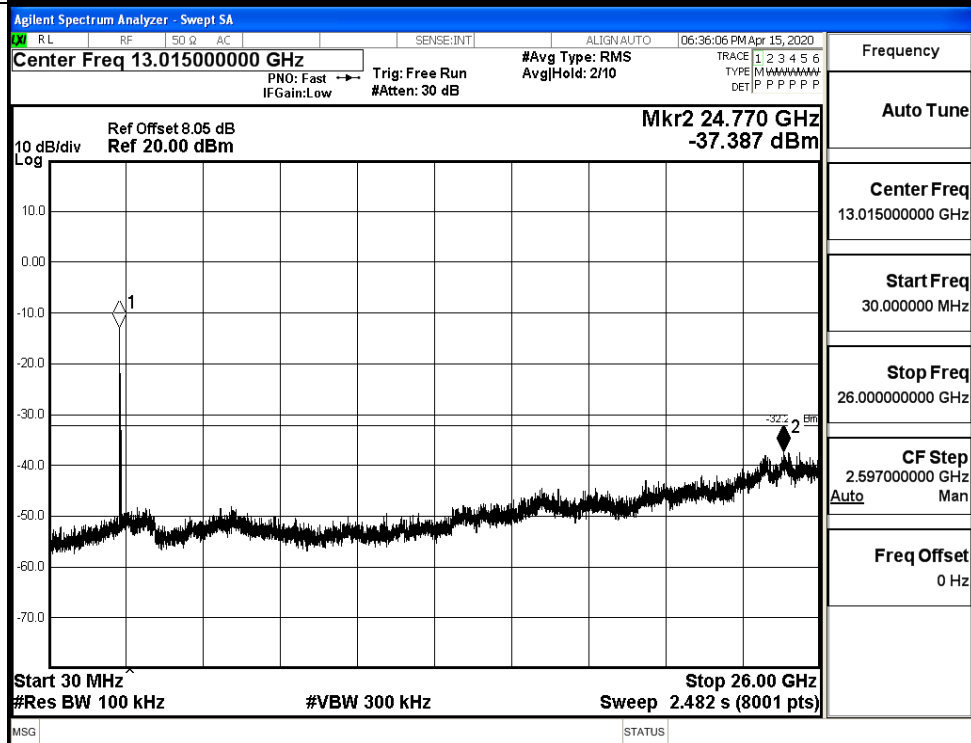
Pref/11G/HCH



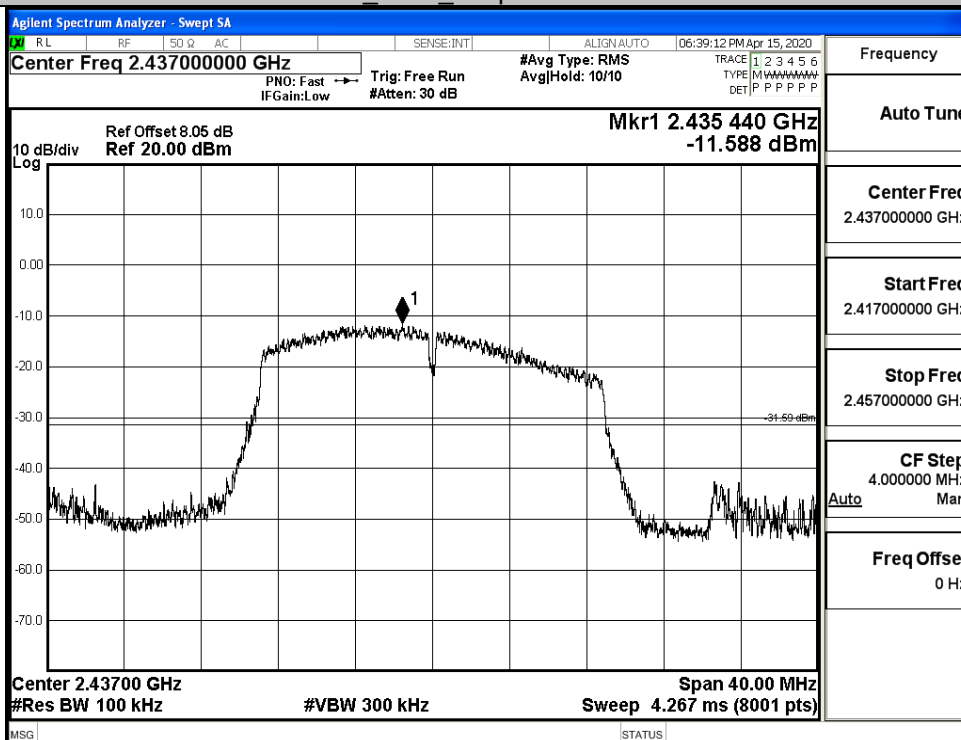
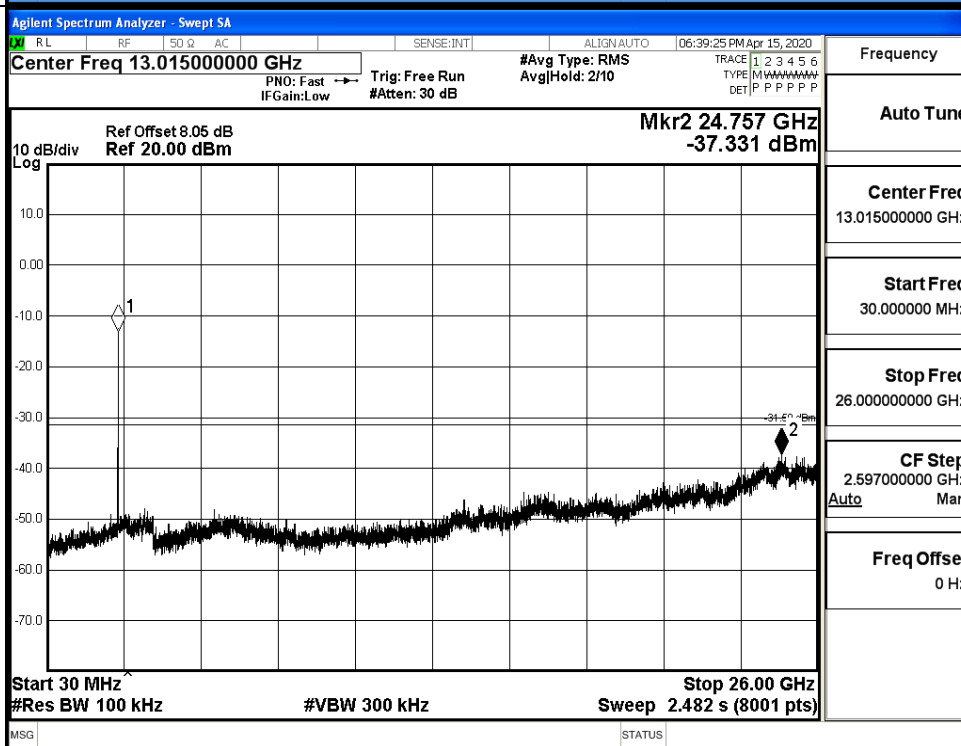
Puw/11G/HCH



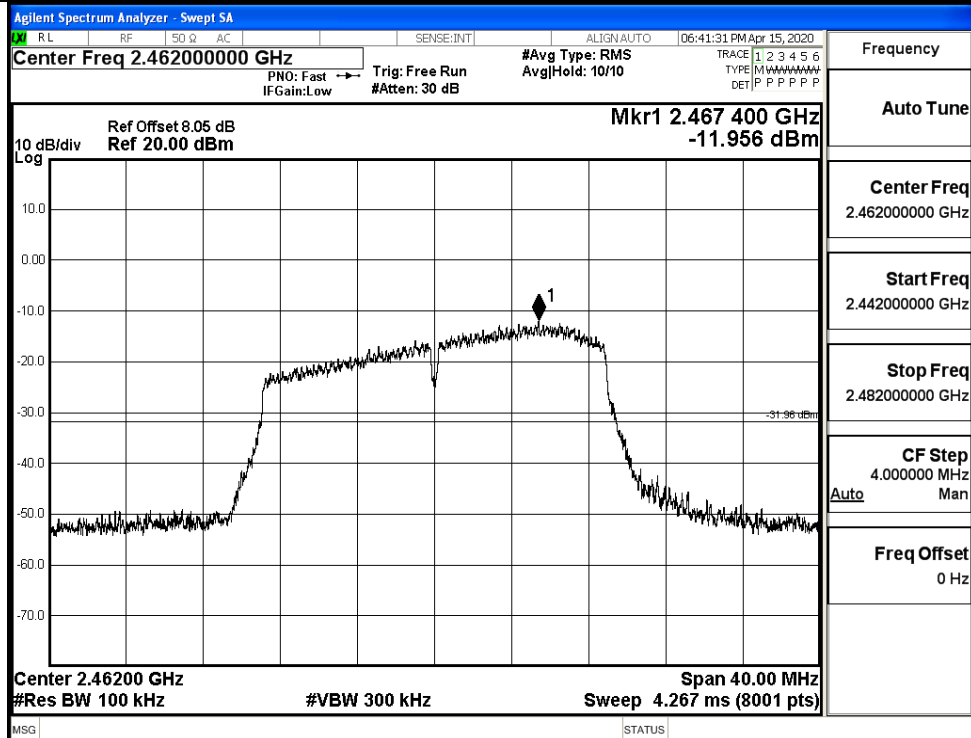
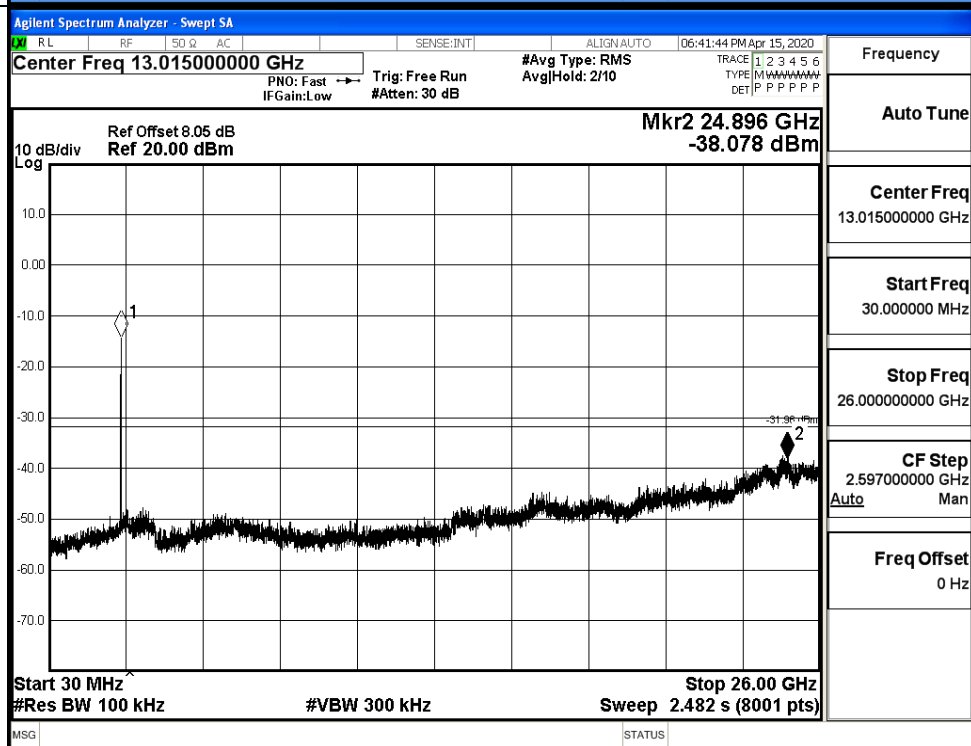
## 11N20SISO LCH Graphs

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

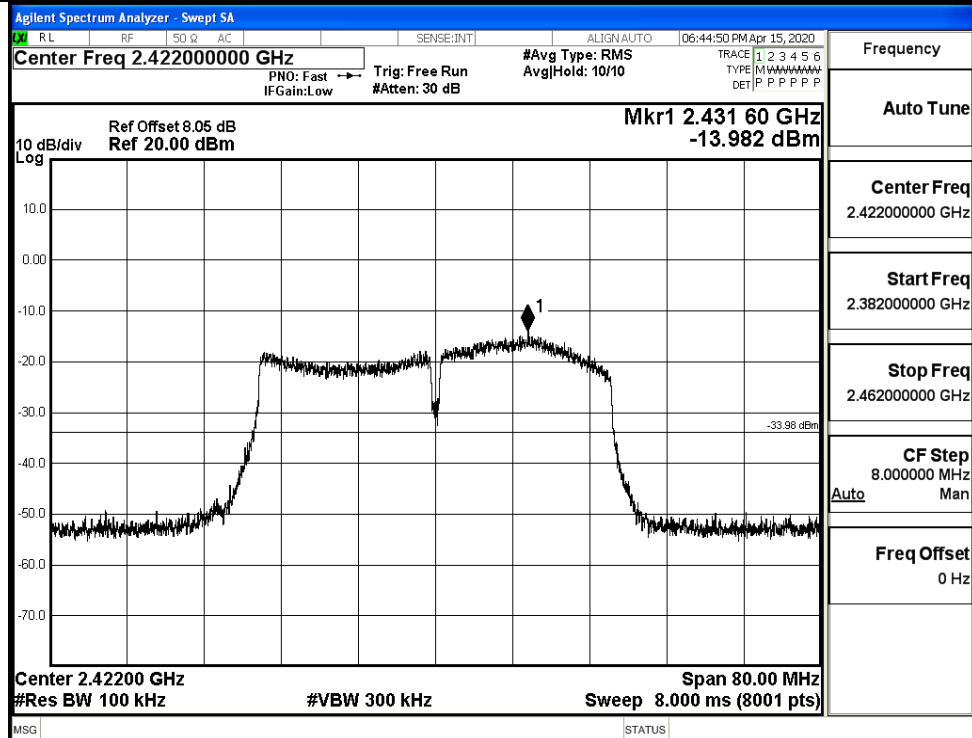
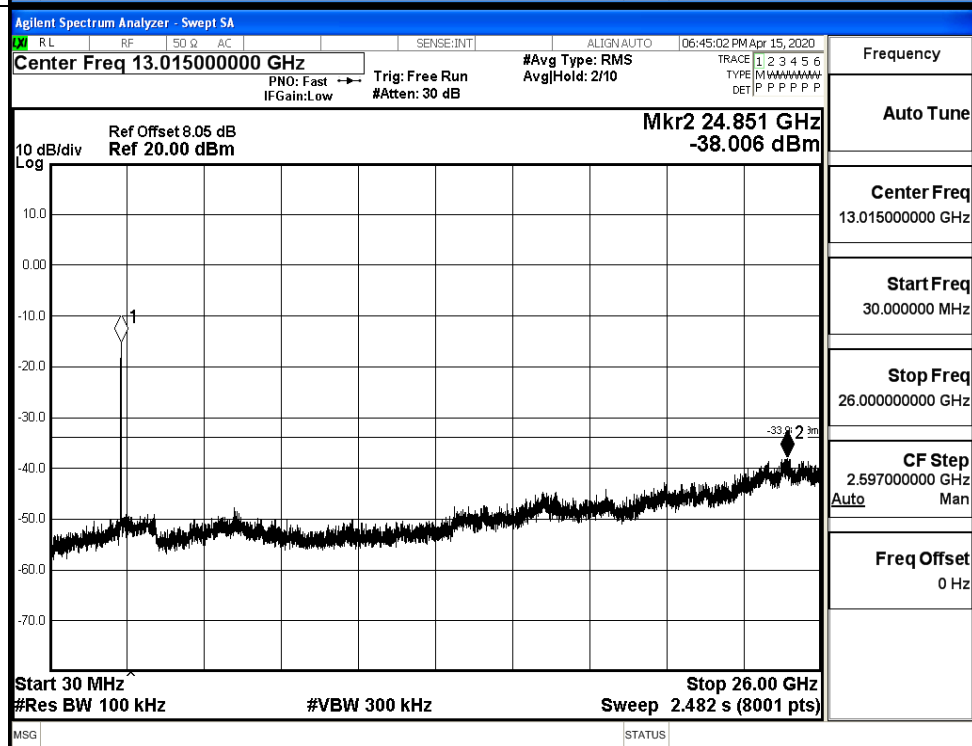
## 11N20SISO\_MCH\_Graphs

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

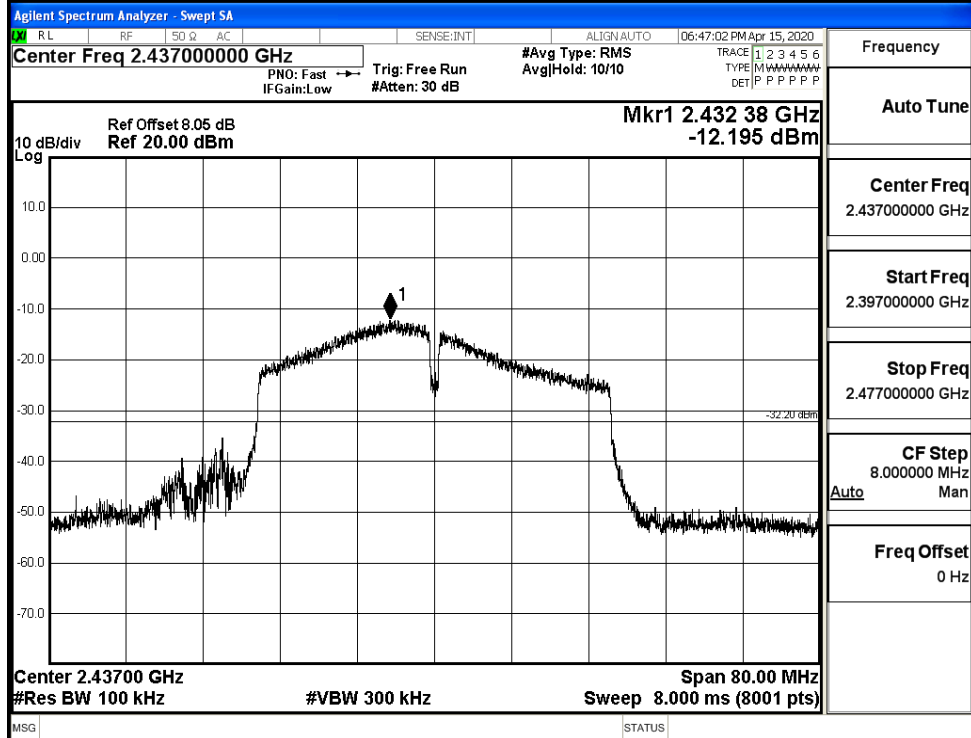
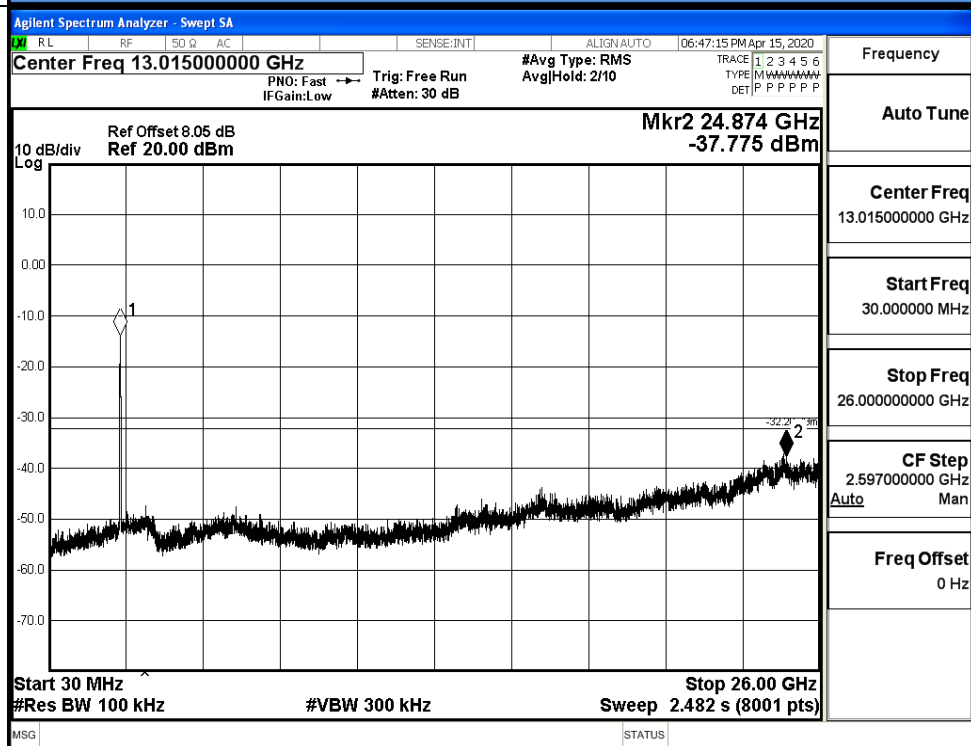
## 11N20SISO HCH Graphs

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

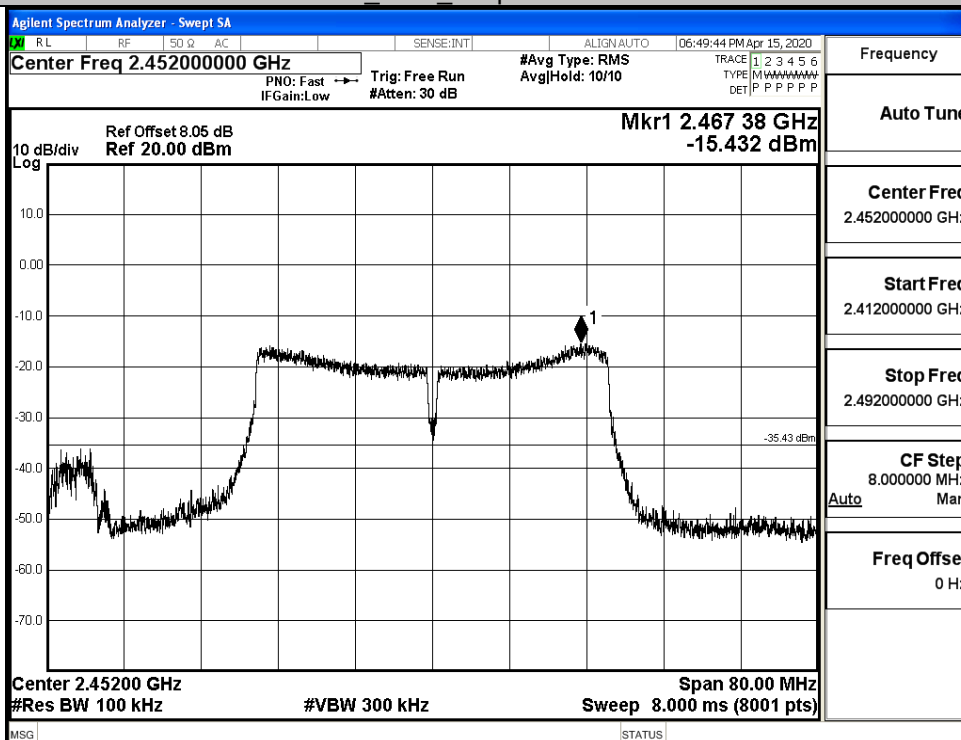
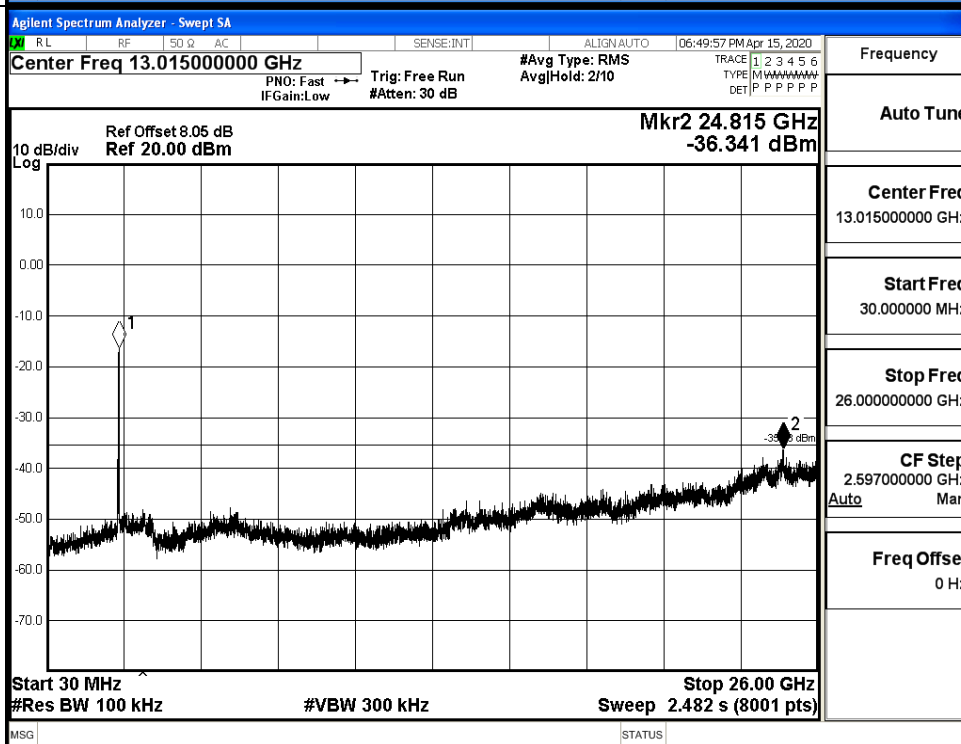
## 11N40SISO LCH Graphs

Pref/11N40  
SISO/LCHPuw/11N40  
SISO/LCH

## 11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCHPuw/11N40  
SISO/MCH

## 11N40SISO HCH Graphs

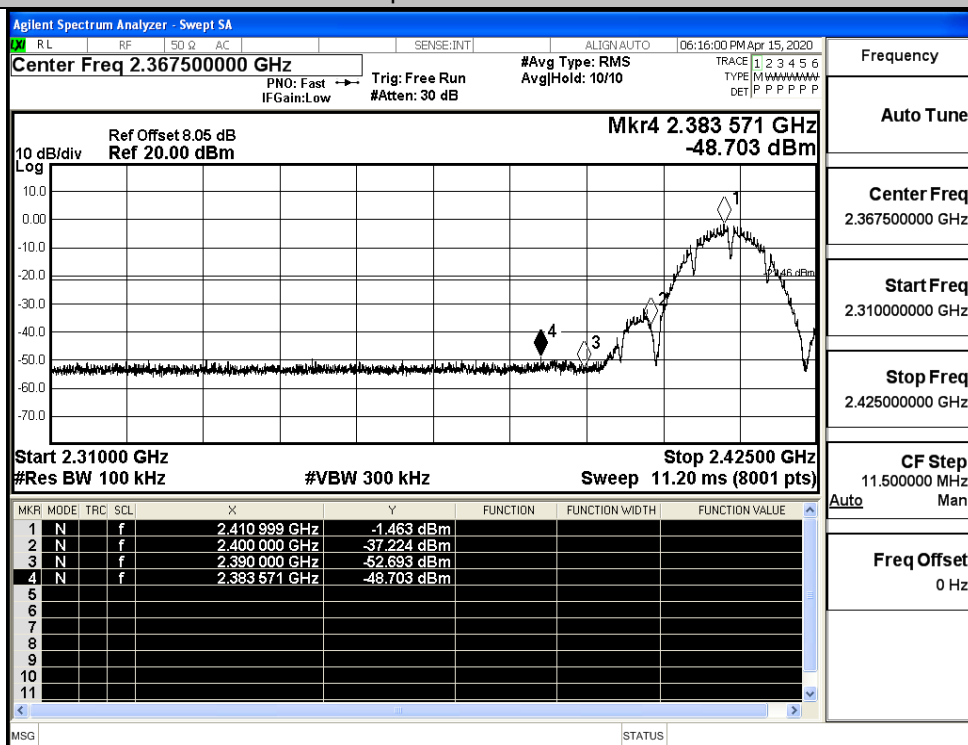
Pref/11N40  
SISO/HCHPuw/11N40  
SISO/HCH

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

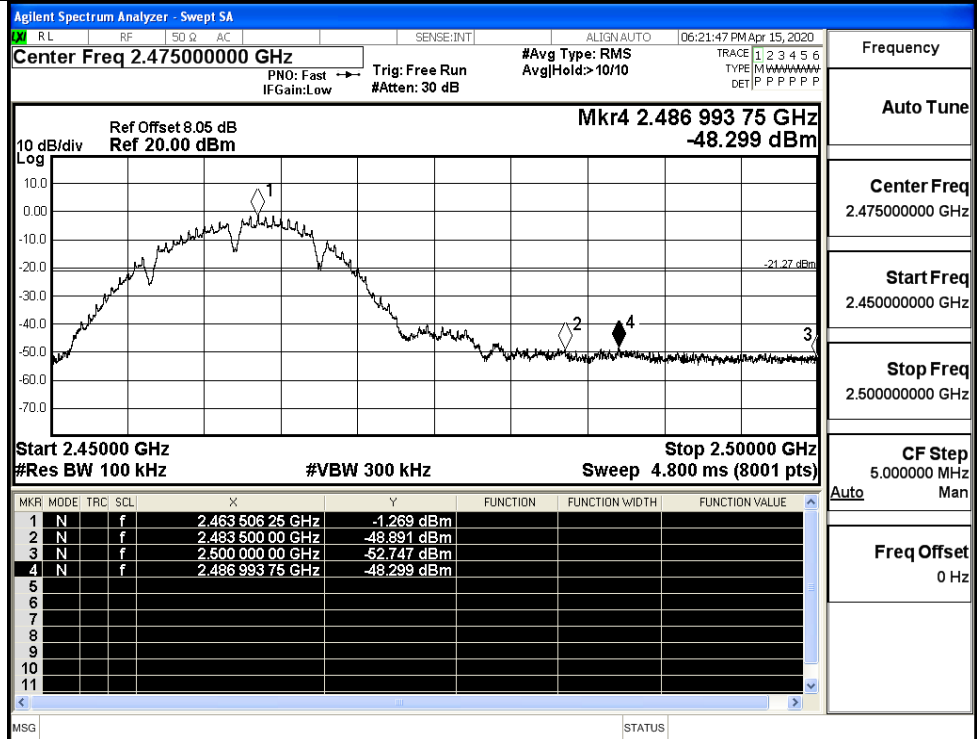
| Mode      | Channel | Carrier Power[dBm] | Max.Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|---------|--------------------|--------------------------|-------------|---------|
| 11B       | LCH     | -1.463             | -48.703                  | -21.46      | PASS    |
|           | HCH     | -1.269             | -48.299                  | -21.27      | PASS    |
| 11G       | LCH     | -11.719            | -49.125                  | -31.72      | PASS    |
|           | HCH     | -9.460             | -49.038                  | -29.46      | PASS    |
| 11N20SISO | LCH     | -12.081            | -49.139                  | -32.08      | PASS    |
|           | HCH     | -12.711            | -49.727                  | -32.71      | PASS    |
| 11N40SISO | LCH     | -14.763            | -50.471                  | -34.76      | PASS    |
|           | HCH     | -15.320            | -49.162                  | -35.32      | PASS    |

## Test Graphs

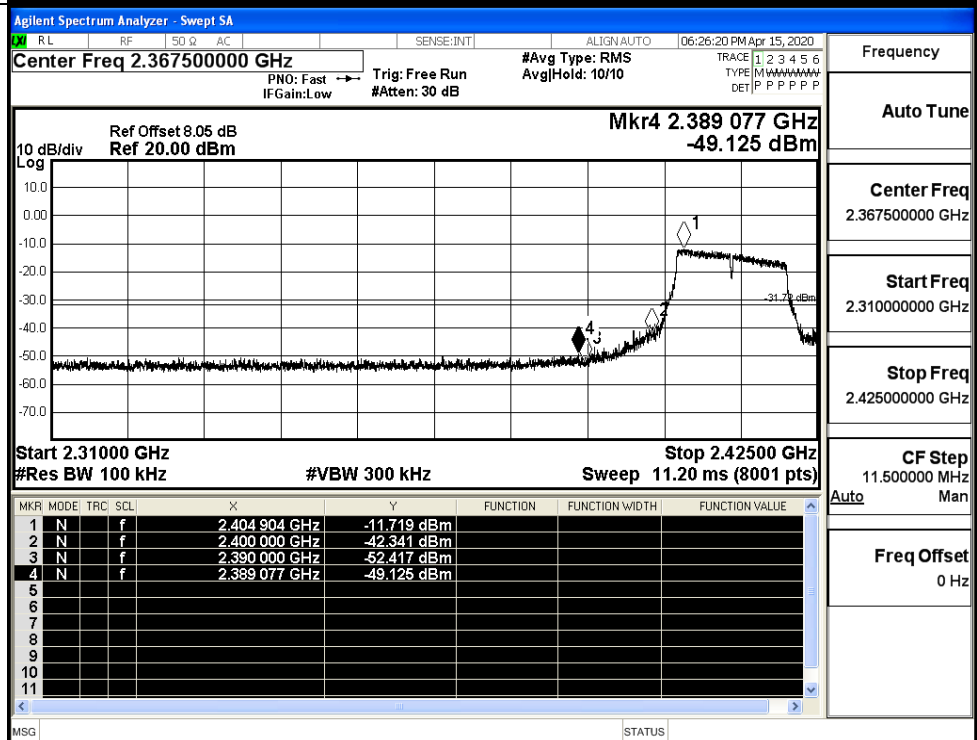
11B/LCH



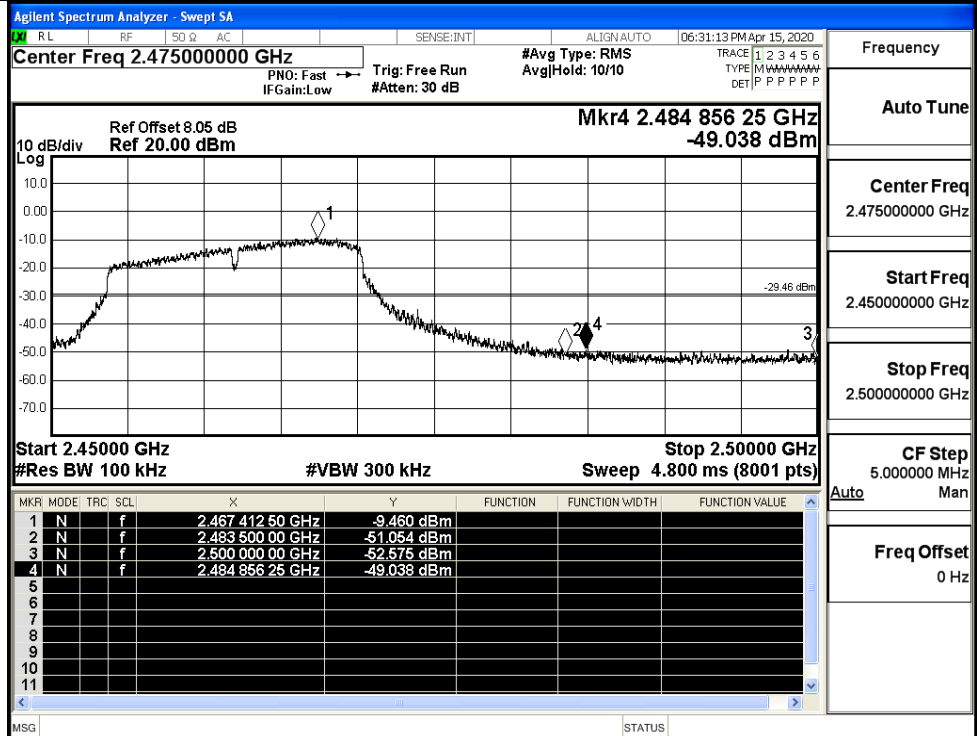
11B/HCH



11G/LCH



11G/HCH



Frequency

Auto Tune

Center Freq

2.475000000 GHz

Start Freq

2.450000000 GHz

Stop Freq

2.500000000 GHz

CF Step

5.000000 MHz

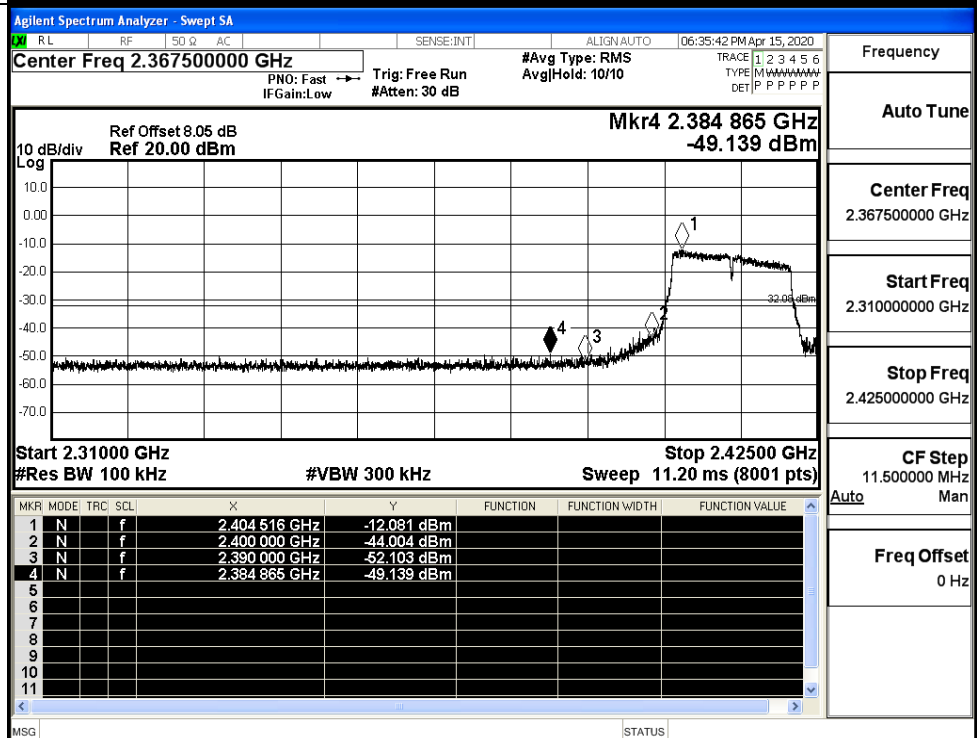
Auto

Man

Freq Offset

0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq

2.367500000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.425000000 GHz

CF Step

11.500000 MHz

Auto

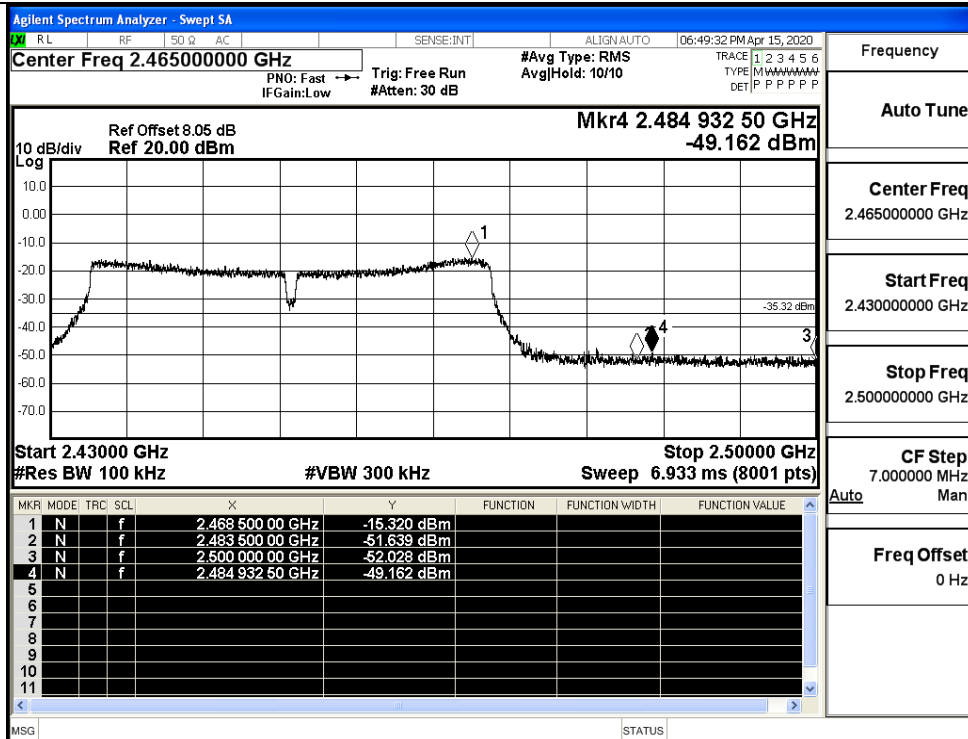
Man

Freq Offset

0 Hz

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11N40SISO/HCH

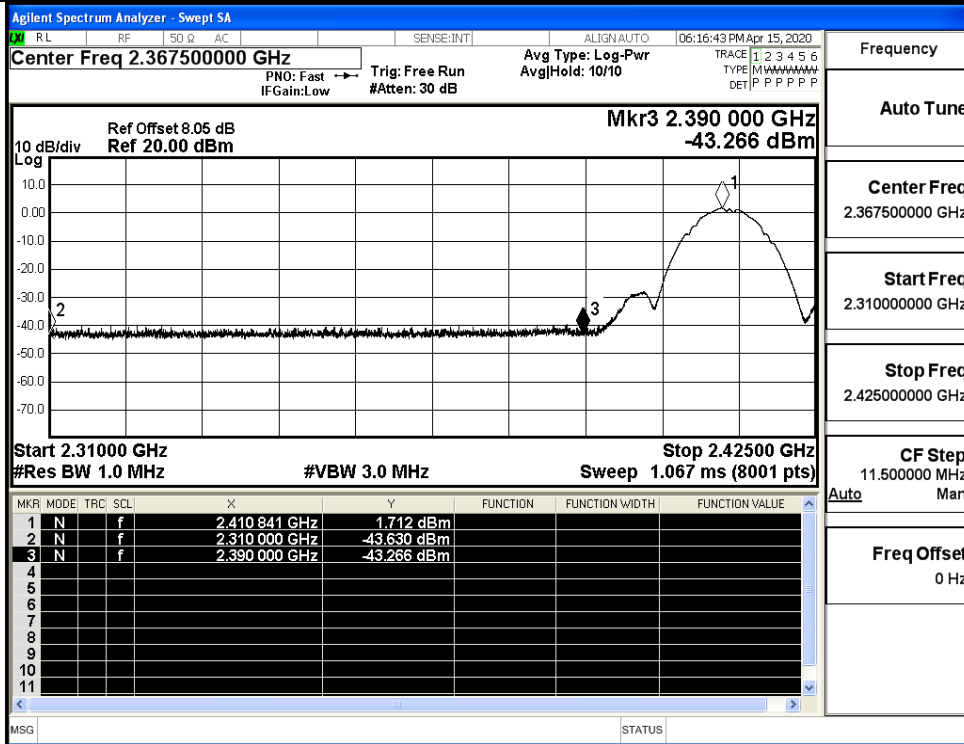


## C.7 Restrict-band band-edge measurements

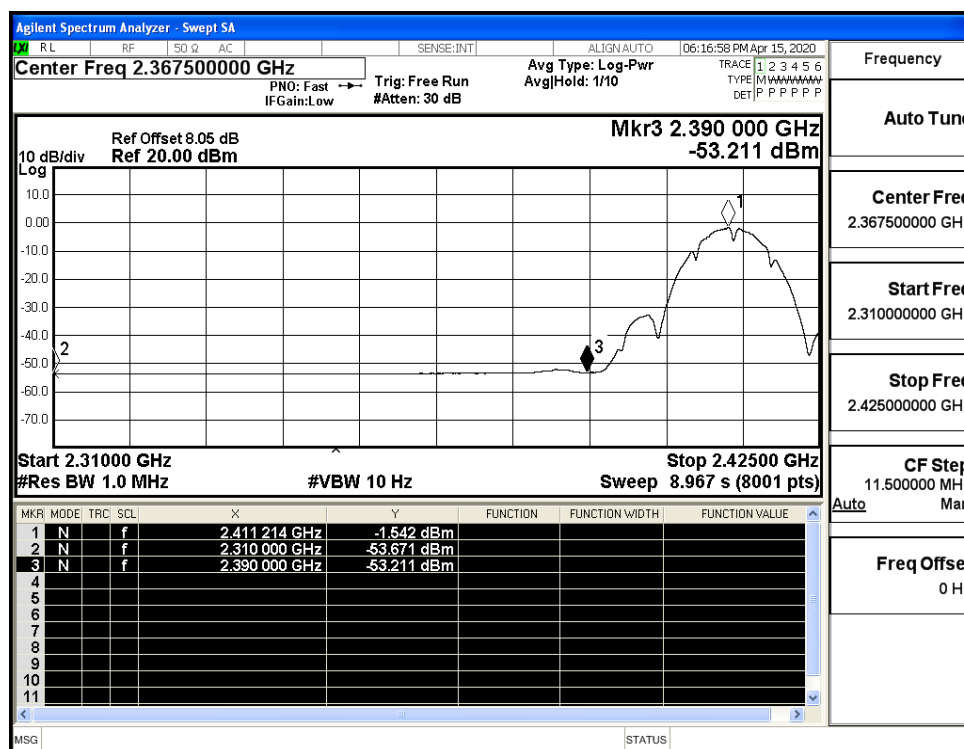
| Test Mode     | Test Channel | Ant  | Freq.  | Power [dBm] | Gain | Ground Factor | E [dBuV/m] | Detector | Limit [dBuV/m] | Verdict |
|---------------|--------------|------|--------|-------------|------|---------------|------------|----------|----------------|---------|
| 11B           | 2412         | Ant1 | 2310.0 | -43.63      | 2.0  | 0             | 53.60      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2310.0 | -53.67      | 2.0  | 0             | 43.56      | AV       | 54             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -43.27      | 2.0  | 0             | 53.96      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -53.21      | 2.0  | 0             | 44.02      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -40.61      | 2.0  | 0             | 56.62      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -50.72      | 2.0  | 0             | 46.51      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -42.01      | 2.0  | 0             | 55.22      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -52.67      | 2.0  | 0             | 44.56      | AV       | 54             | PASS    |
| 11G           | 2412         | Ant1 | 2310.0 | -41.96      | 2.0  | 0             | 55.27      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2310.0 | -53.65      | 2.0  | 0             | 43.58      | AV       | 54             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -38.67      | 2.0  | 0             | 58.56      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -52.26      | 2.0  | 0             | 44.97      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -39.89      | 2.0  | 0             | 57.34      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -51.52      | 2.0  | 0             | 45.71      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -42.58      | 2.0  | 0             | 54.65      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -52.66      | 2.0  | 0             | 44.57      | AV       | 54             | PASS    |
| 11N20<br>SISO | 2412         | Ant1 | 2310.0 | -43.07      | 2.0  | 0             | 54.16      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2310.0 | -53.61      | 2.0  | 0             | 43.62      | AV       | 54             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -42.84      | 2.0  | 0             | 54.39      | PEAK     | 74             | PASS    |
|               | 2412         | Ant1 | 2390.0 | -52.77      | 2.0  | 0             | 44.46      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -42.35      | 2.0  | 0             | 54.88      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2483.5 | -52.59      | 2.0  | 0             | 44.64      | AV       | 54             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -42.49      | 2.0  | 0             | 54.74      | PEAK     | 74             | PASS    |
|               | 2462         | Ant1 | 2500.0 | -52.66      | 2.0  | 0             | 44.57      | AV       | 54             | PASS    |
| 11N40<br>SISO | 2422         | Ant1 | 2310.0 | -42.40      | 2.0  | 0             | 54.83      | PEAK     | 74             | PASS    |
|               | 2422         | Ant1 | 2310.0 | -53.63      | 2.0  | 0             | 43.60      | AV       | 54             | PASS    |

|  |      |      |        |        |     |   |       |      |    |      |
|--|------|------|--------|--------|-----|---|-------|------|----|------|
|  | 2422 | Ant1 | 2390.0 | -42.69 | 2.0 | 0 | 54.54 | PEAK | 74 | PASS |
|  | 2422 | Ant1 | 2390.0 | -53.04 | 2.0 | 0 | 44.19 | AV   | 54 | PASS |
|  | 2452 | Ant1 | 2483.5 | -39.92 | 2.0 | 0 | 57.31 | PEAK | 74 | PASS |
|  | 2452 | Ant1 | 2483.5 | -52.06 | 2.0 | 0 | 45.17 | AV   | 54 | PASS |
|  | 2452 | Ant1 | 2500.0 | -42.00 | 2.0 | 0 | 55.23 | PEAK | 74 | PASS |
|  | 2452 | Ant1 | 2500.0 | -52.66 | 2.0 | 0 | 44.57 | AV   | 54 | PASS |

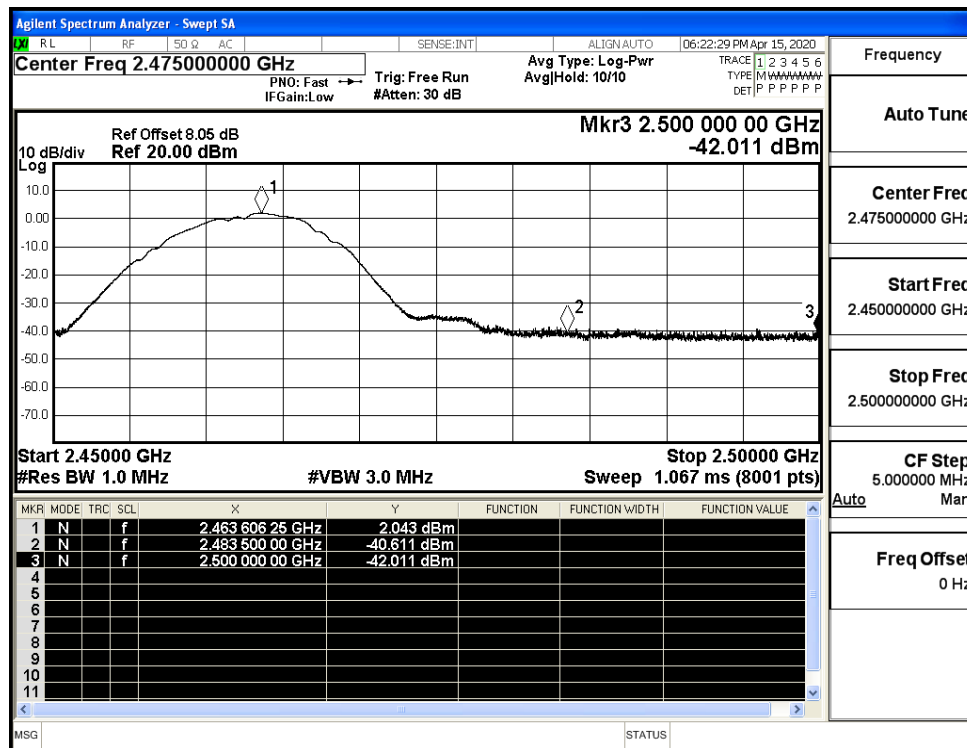
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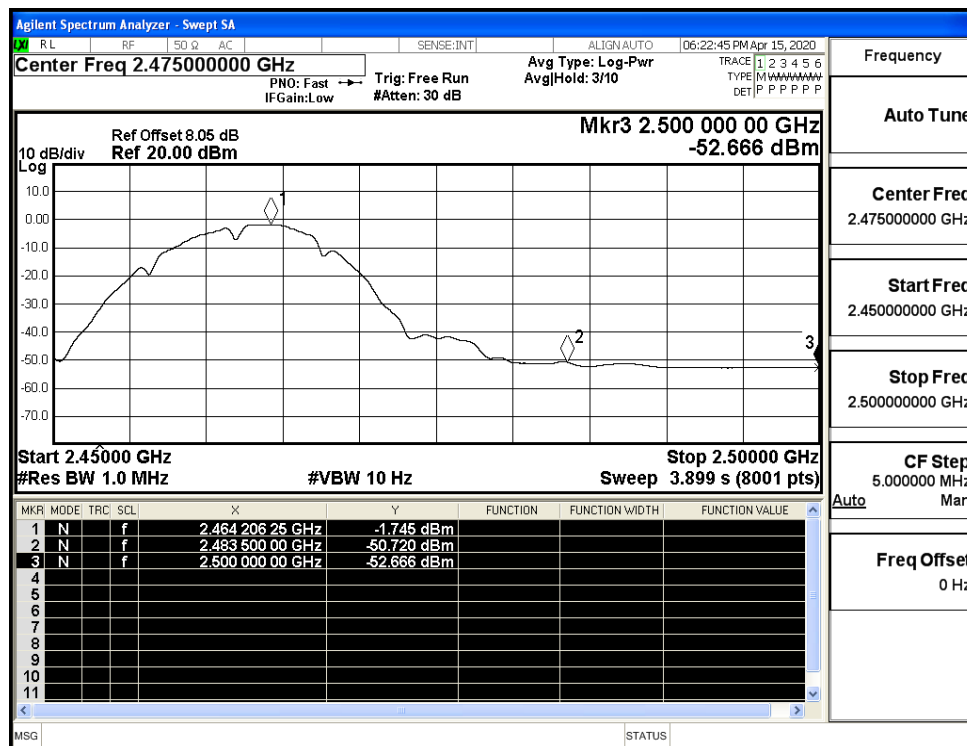
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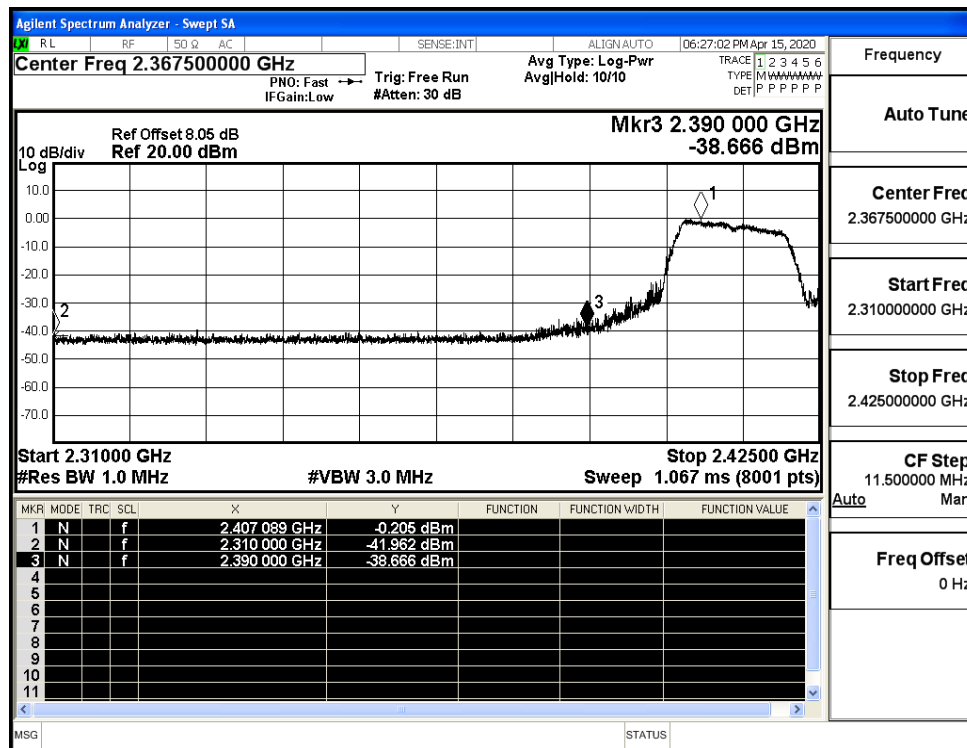
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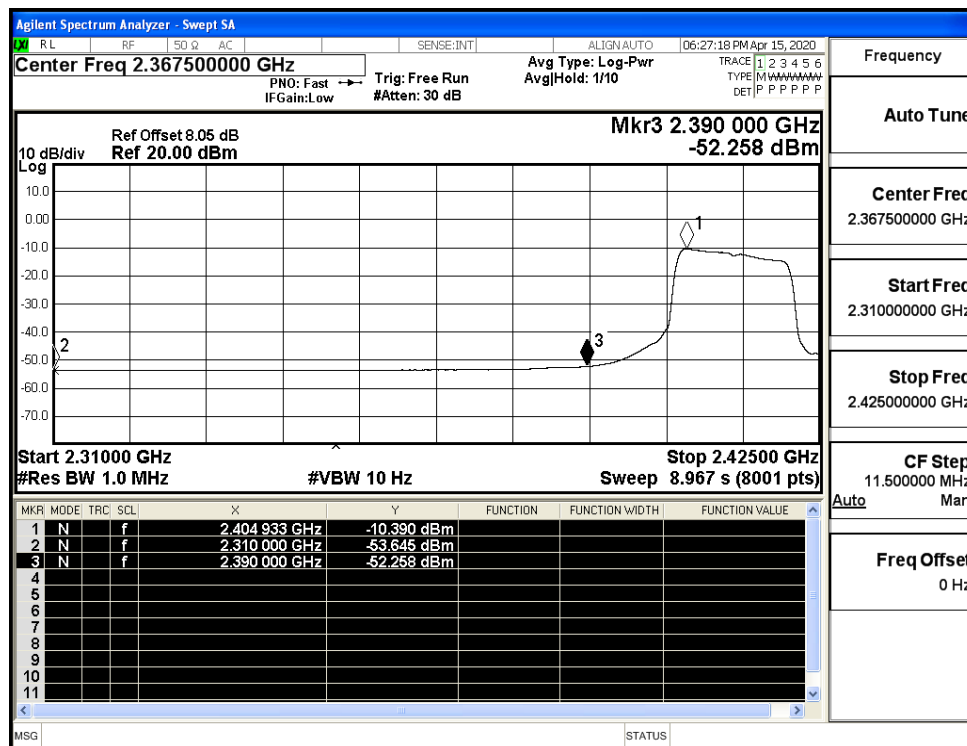
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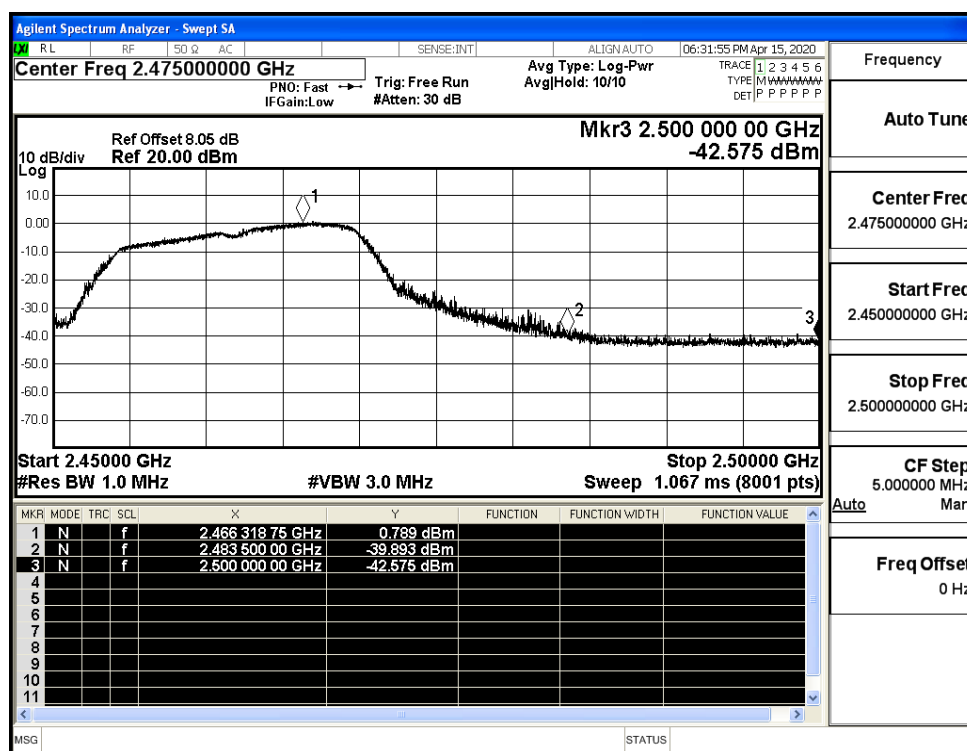
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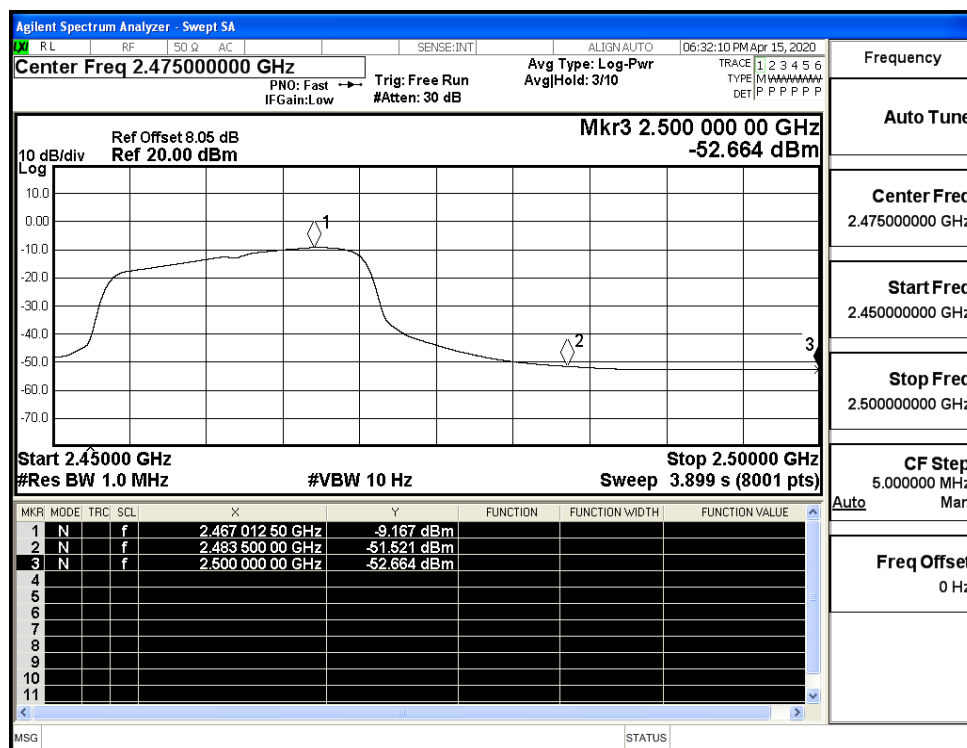
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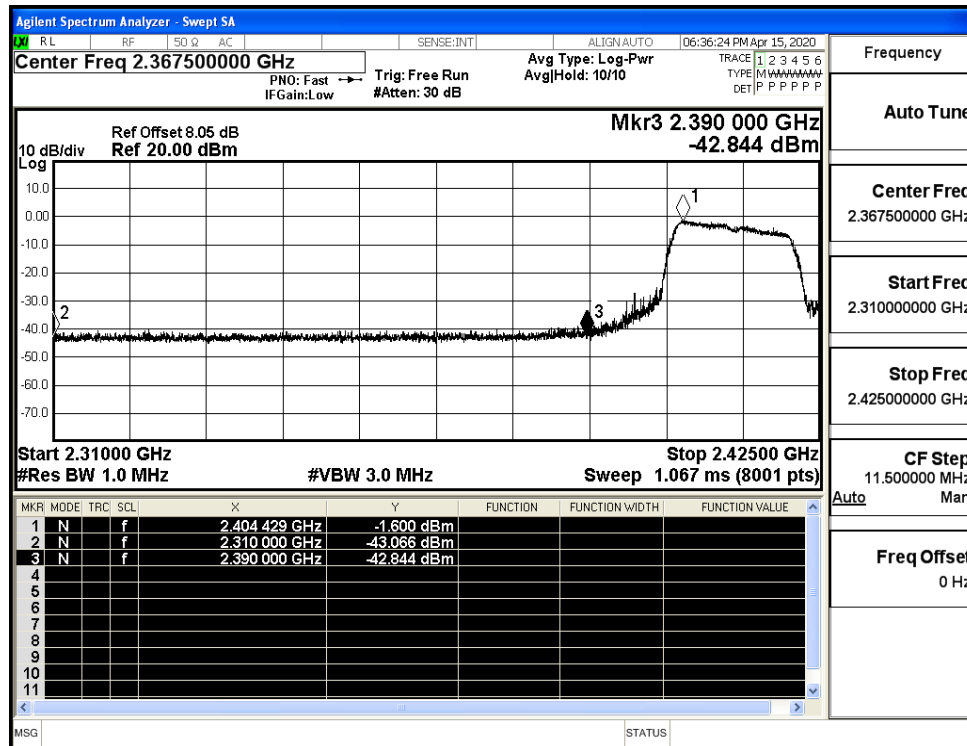
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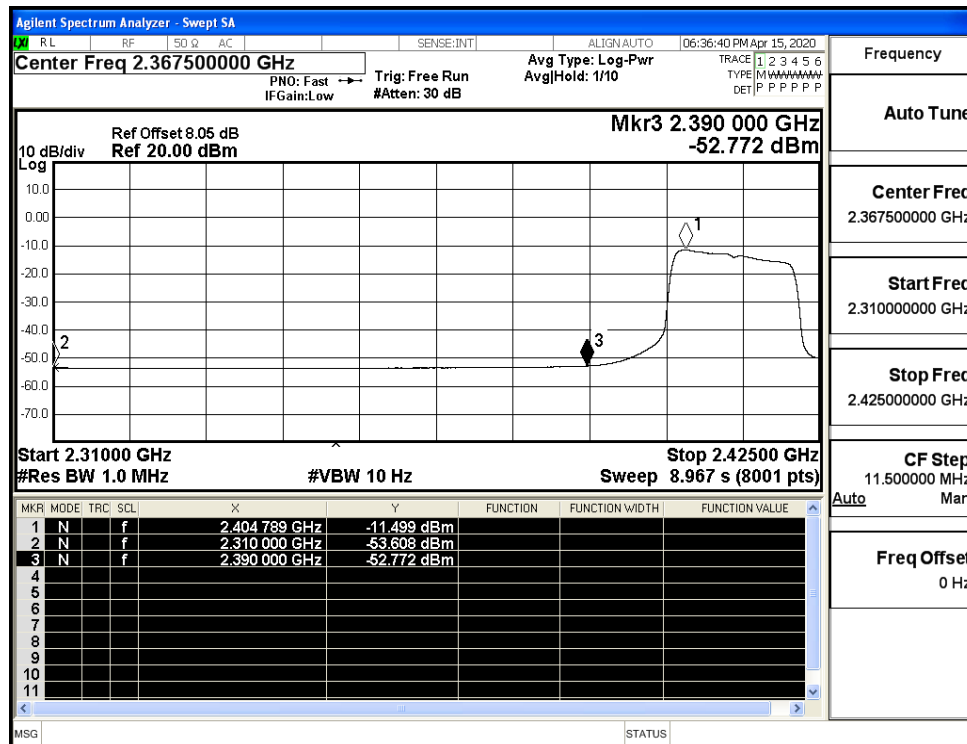
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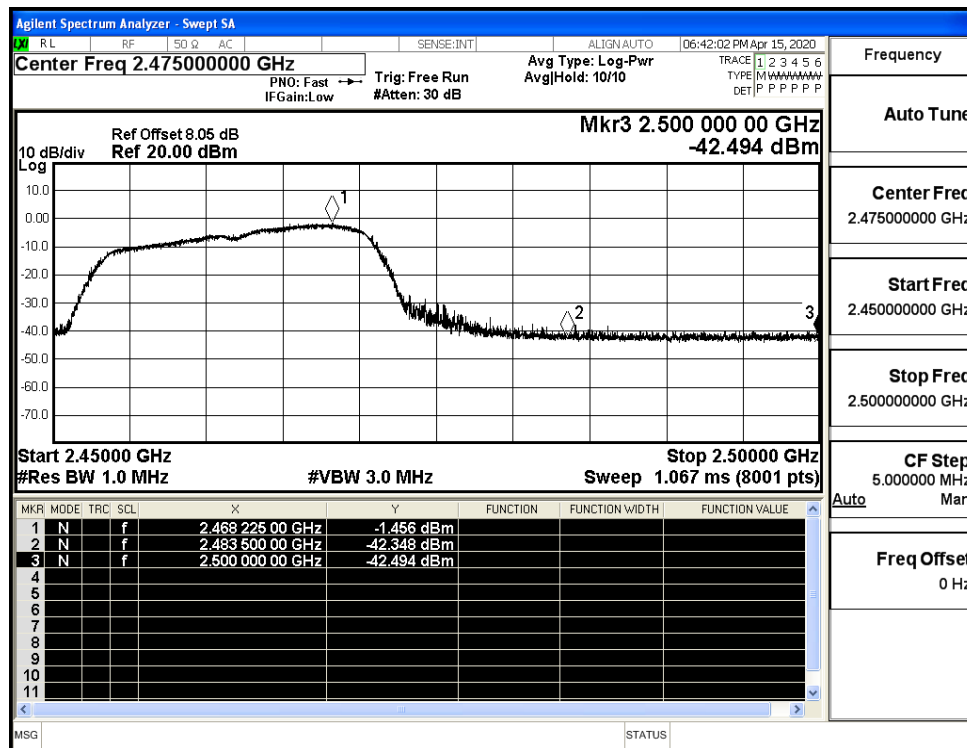
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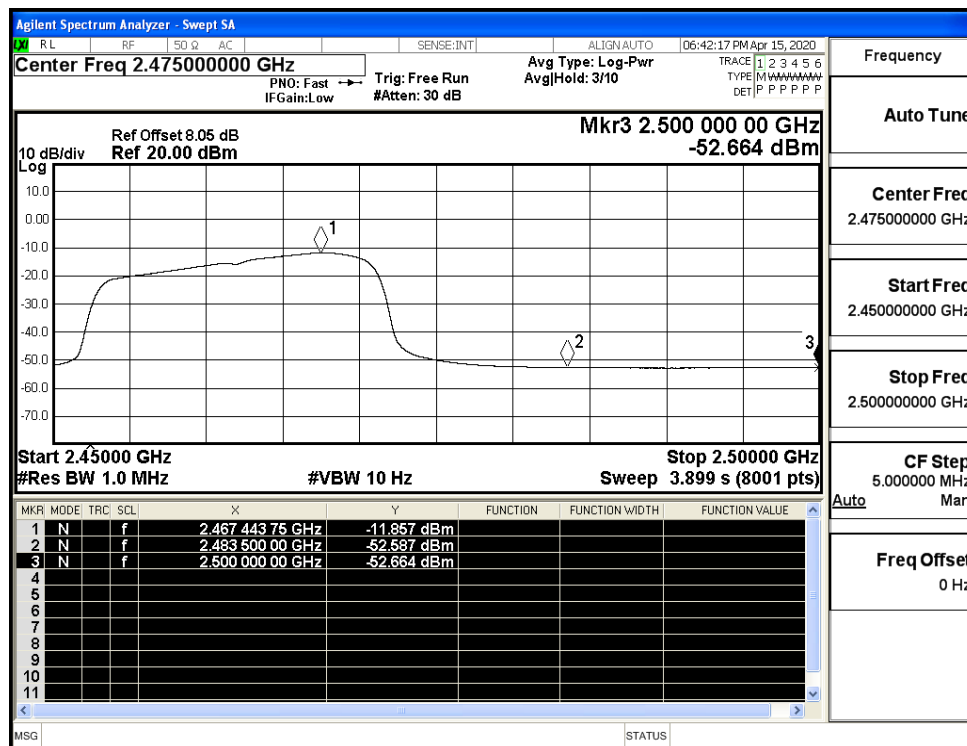
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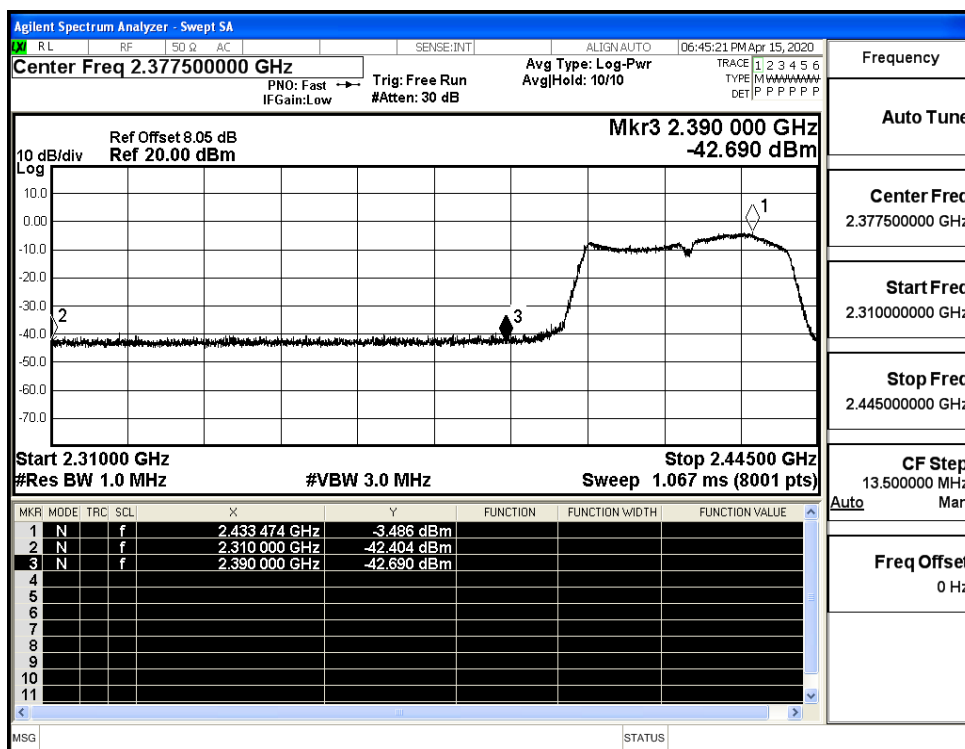
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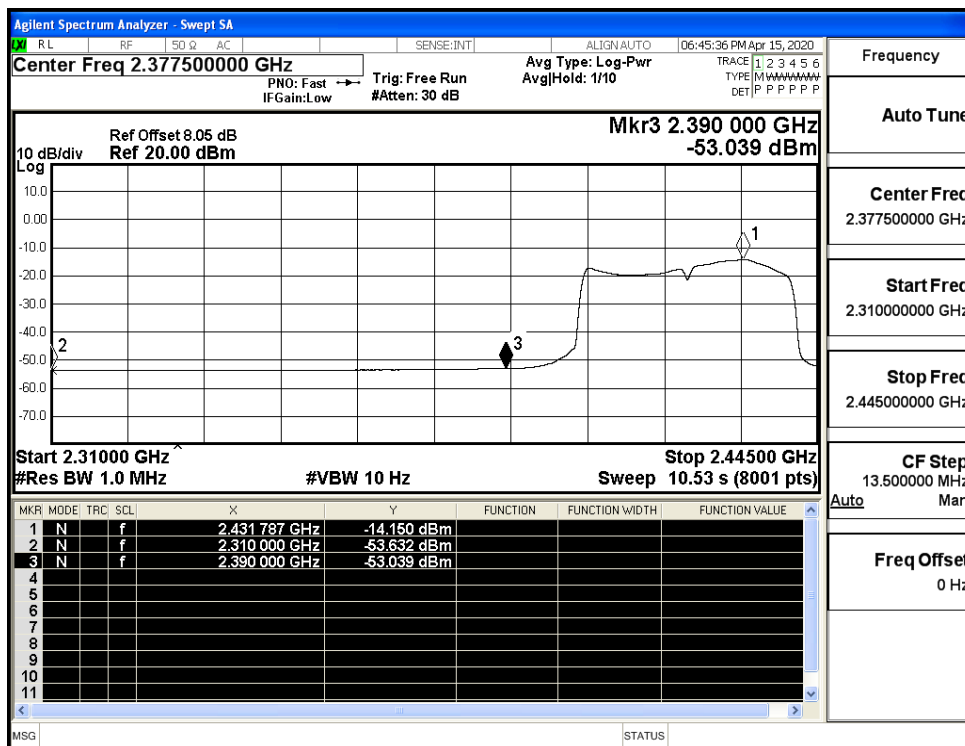
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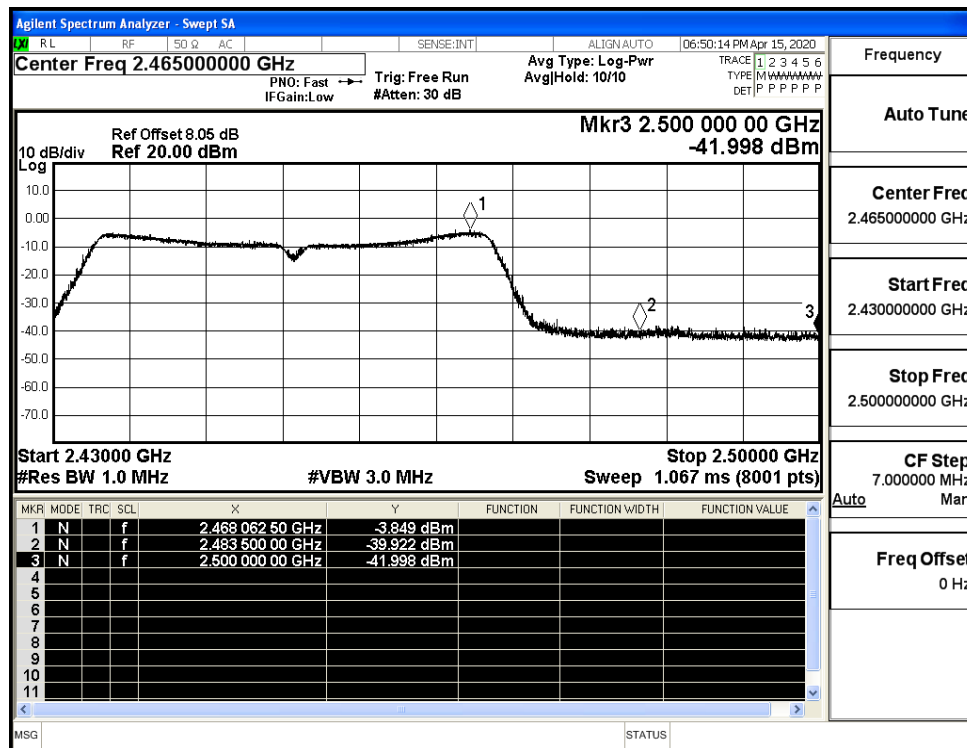
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## Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



## Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



## Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

