



**Appendix A for SHEM191001833601**

**1.6dB Bandwidth**

| Test Mode | Test Channel | Ant  | EBW[MHz] | Limit | Verdict |
|-----------|--------------|------|----------|-------|---------|
| 11B       | 2412         | Ant1 | 8.55     | 0.5   | PASS    |
| 11B       | 2437         | Ant1 | 8.09     | 0.5   | PASS    |
| 11B       | 2462         | Ant1 | 8.09     | 0.5   | PASS    |
| 11G       | 2412         | Ant1 | 16.37    | 0.5   | PASS    |
| 11G       | 2437         | Ant1 | 16.37    | 0.5   | PASS    |
| 11G       | 2462         | Ant1 | 16.37    | 0.5   | PASS    |
| 11N20SISO | 2412         | Ant1 | 17.55    | 0.5   | PASS    |
| 11N20SISO | 2437         | Ant1 | 17.54    | 0.5   | PASS    |
| 11N20SISO | 2462         | Ant1 | 17.33    | 0.5   | PASS    |
| 11N40SISO | 2422         | Ant1 | 35.92    | 0.5   | PASS    |
| 11N40SISO | 2437         | Ant1 | 35.74    | 0.5   | PASS    |
| 11N40SISO | 2452         | Ant1 | 35.55    | 0.5   | PASS    |

## 6dB Bandwidth\_11B\_2412\_Ant1



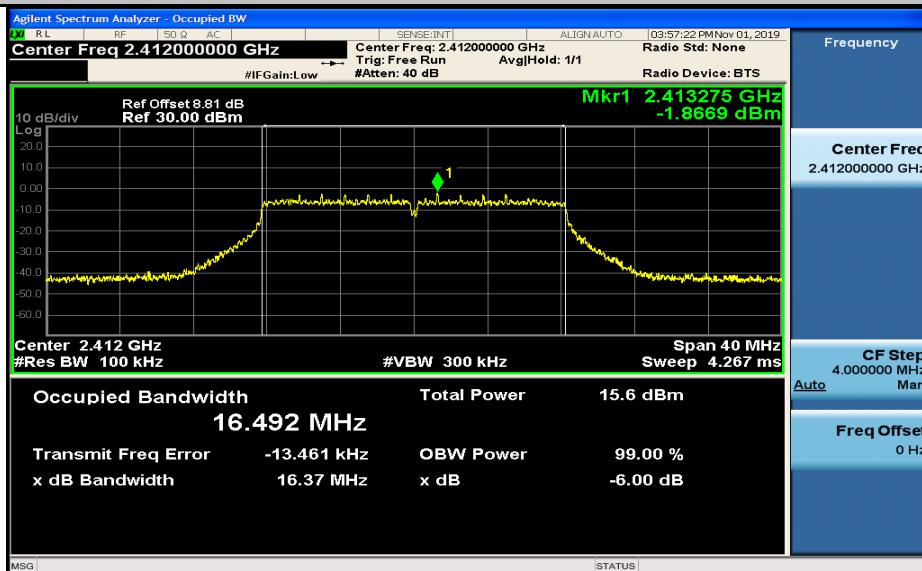
## 6dB Bandwidth\_11B\_2437\_Ant1



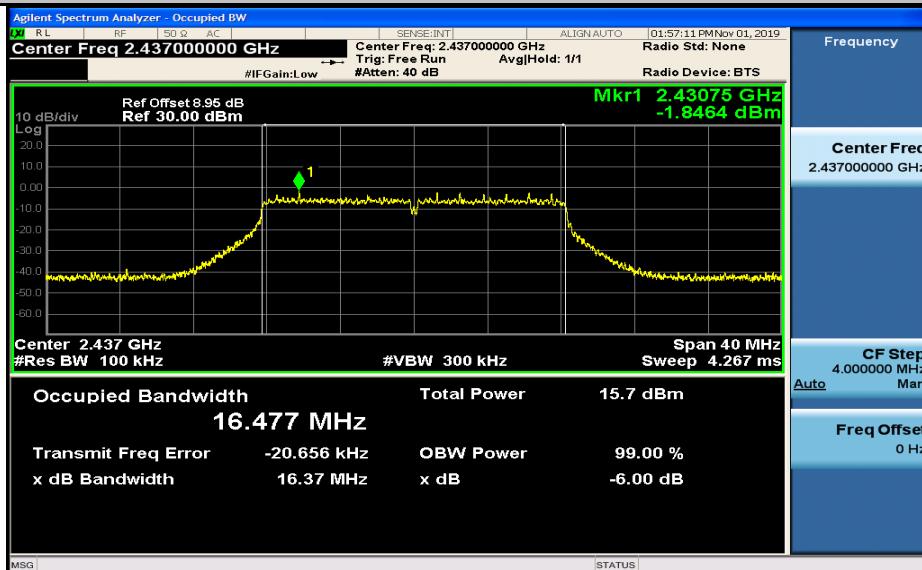
## 6dB Bandwidth\_11B\_2462\_Ant1



## 6dB Bandwidth\_11G\_2412\_Ant1



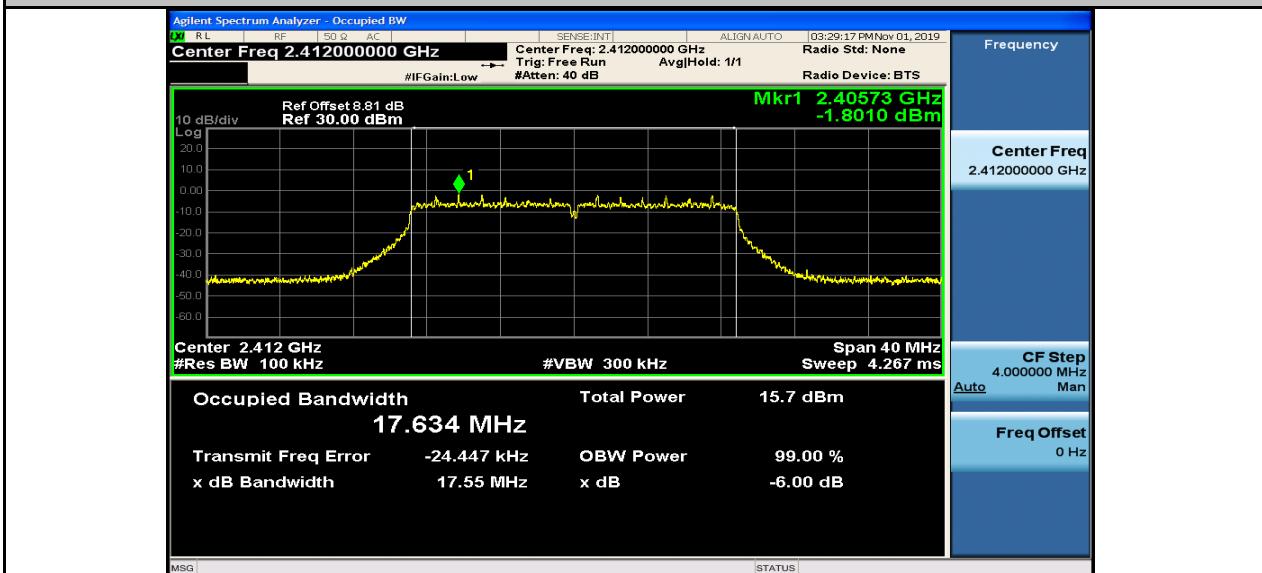
## 6dB Bandwidth\_11G\_2437\_Ant1



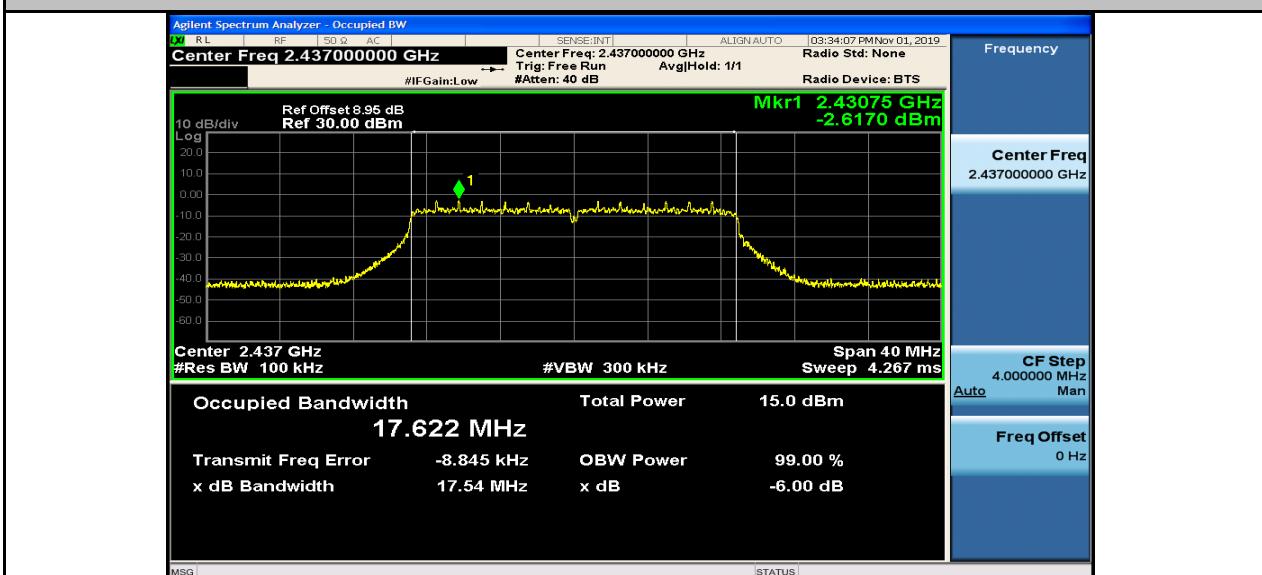
## 6dB Bandwidth\_11G\_2462\_Ant1



## 6dB Bandwidth\_11N20SISO\_2412\_Ant1



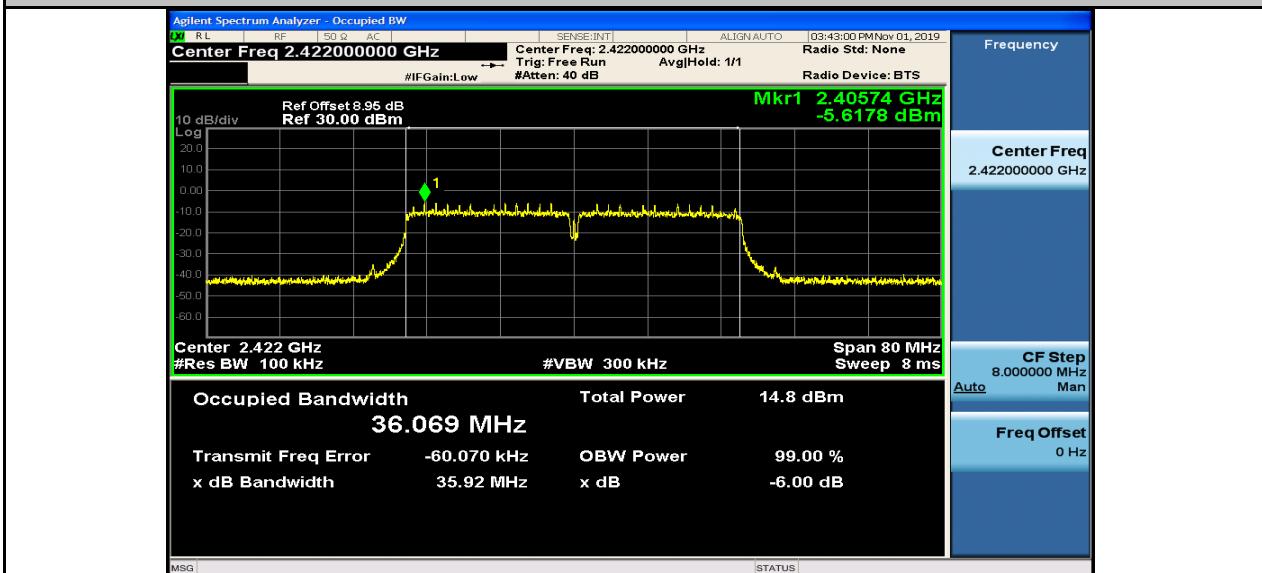
## 6dB Bandwidth\_11N20SISO\_2437\_Ant1



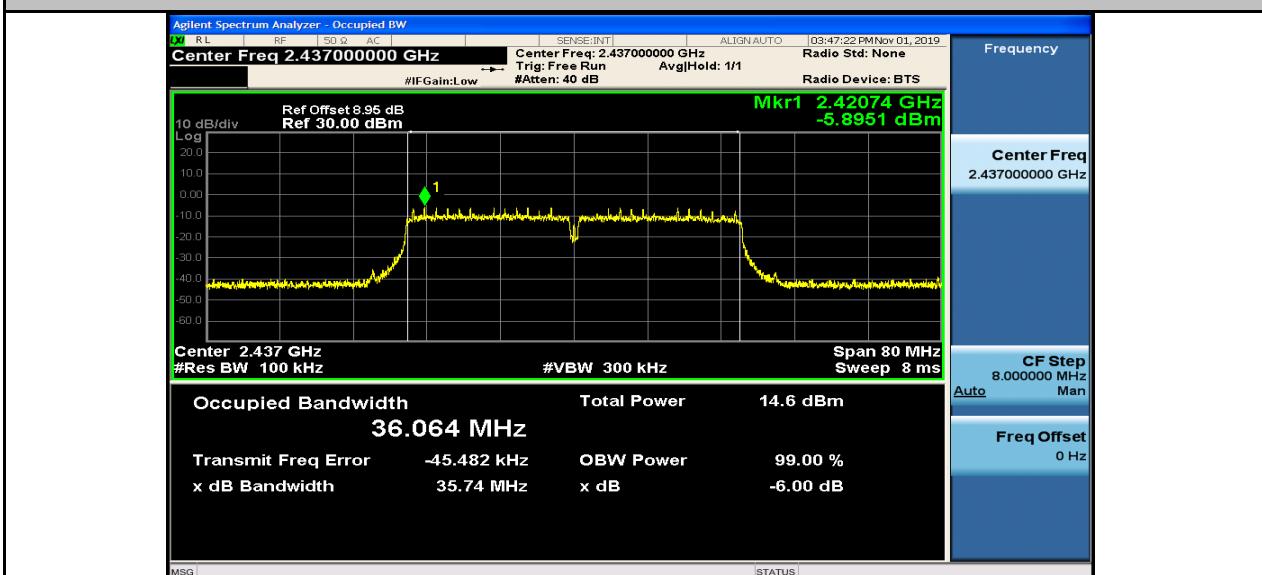
## 6dB Bandwidth\_11N20SISO\_2462\_Ant1



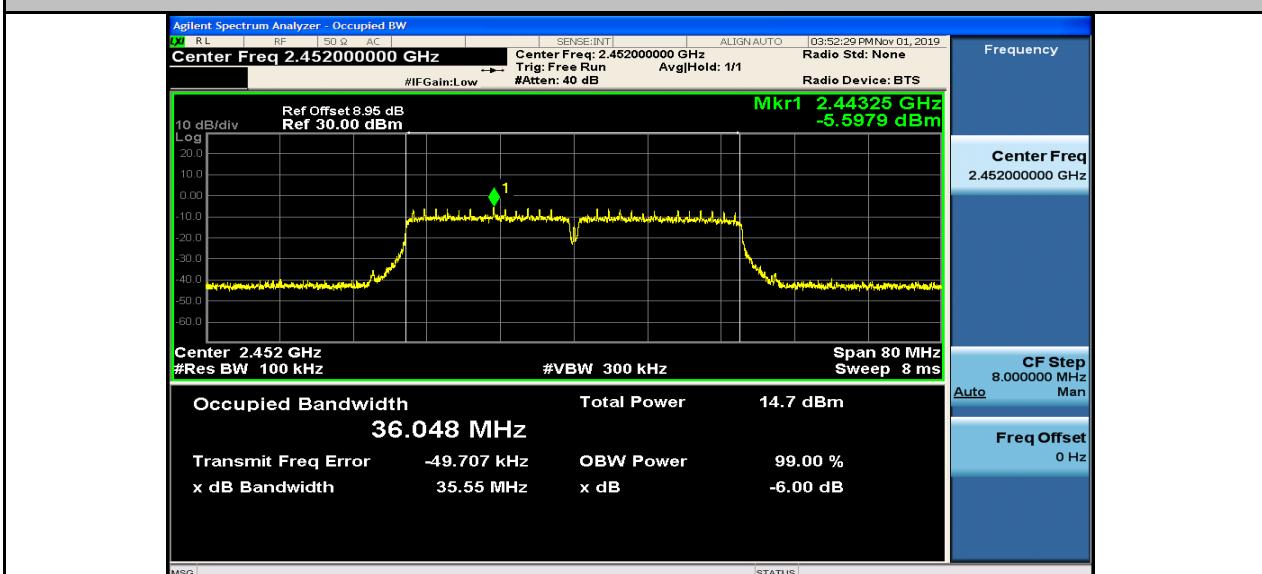
## 6dB Bandwidth\_11N40SISO\_2422\_Ant1



## 6dB Bandwidth\_11N40SISO\_2437\_Ant1



## 6dB Bandwidth\_11N40SISO\_2452\_Ant1

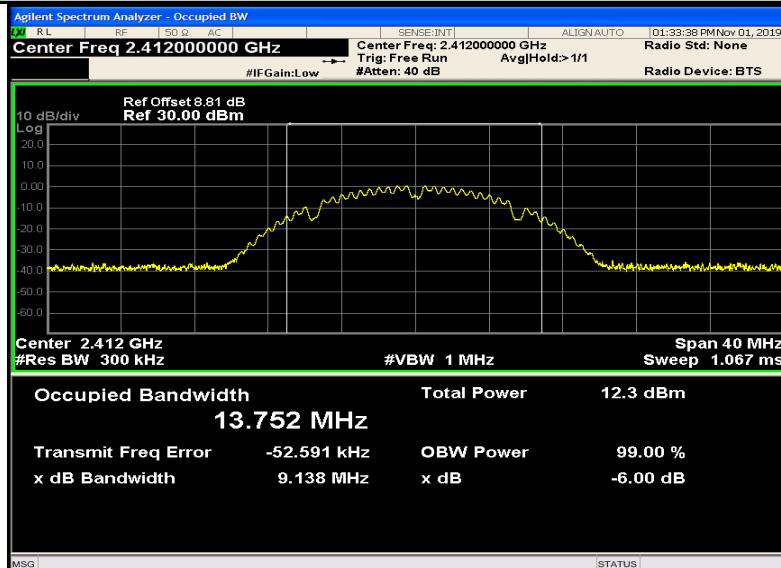




## 2.Occupied Bandwidth

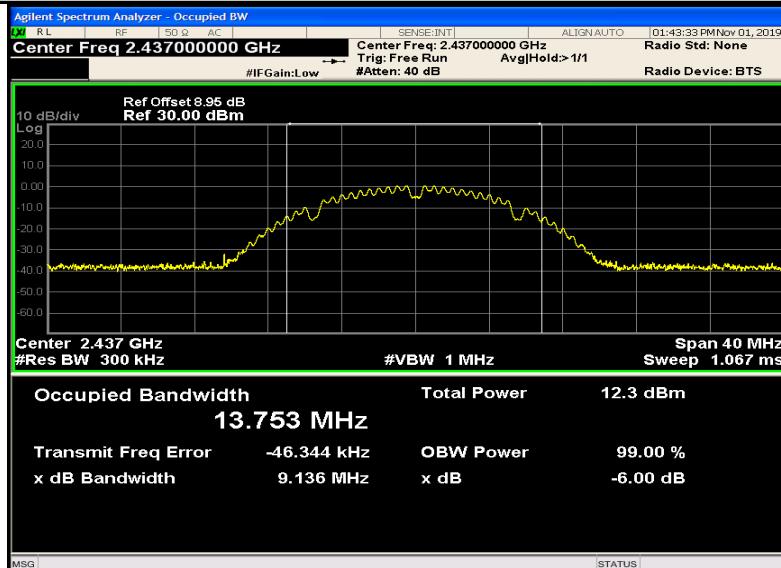
| Test Mode | Test Channel | Ant  | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------|------------|---------|
| 11B       | 2412         | Ant1 | 13.75    | ---        | PASS    |
| 11B       | 2437         | Ant1 | 13.75    | ---        | PASS    |
| 11B       | 2462         | Ant1 | 13.75    | ---        | PASS    |
| 11G       | 2412         | Ant1 | 16.92    | ---        | PASS    |
| 11G       | 2437         | Ant1 | 16.82    | ---        | PASS    |
| 11G       | 2462         | Ant1 | 16.96    | ---        | PASS    |
| 11N20SISO | 2412         | Ant1 | 17.97    | ---        | PASS    |
| 11N20SISO | 2437         | Ant1 | 17.89    | ---        | PASS    |
| 11N20SISO | 2462         | Ant1 | 17.92    | ---        | PASS    |
| 11N40SISO | 2422         | Ant1 | 36.52    | ---        | PASS    |
| 11N40SISO | 2437         | Ant1 | 36.47    | ---        | PASS    |
| 11N40SISO | 2452         | Ant1 | 36.63    | ---        | PASS    |

## Occupied Bandwidth\_11B\_2412



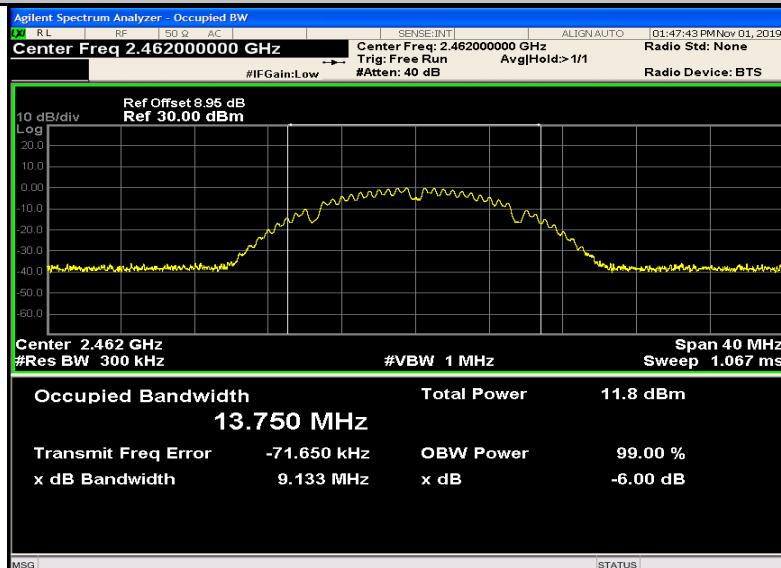
Frequency  
Center Freq 2.412000000 GHz  
CF Step 4.000000 MHz Man  
Auto  
Freq Offset 0 Hz

## Occupied Bandwidth\_11B\_2437



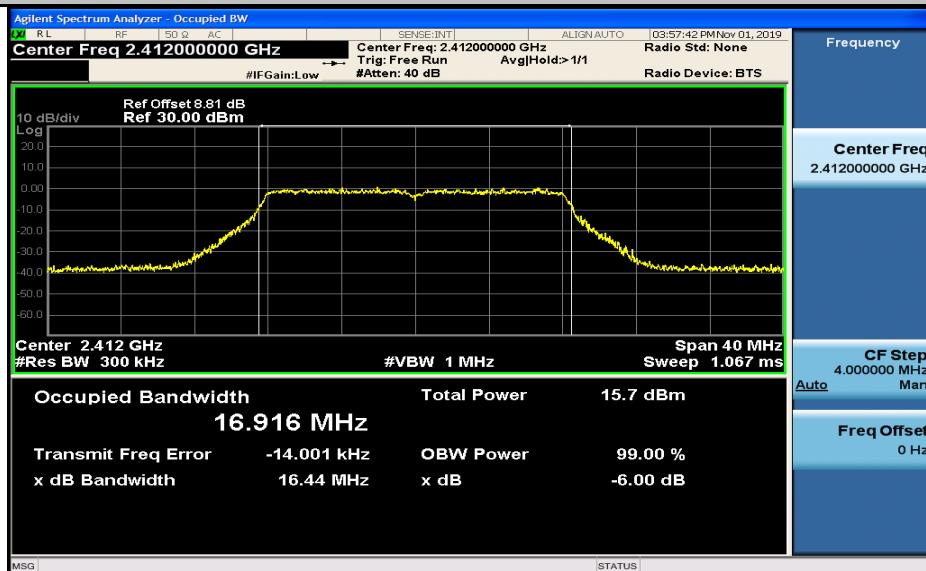
Frequency  
Center Freq 2.437000000 GHz  
CF Step 4.000000 MHz Man  
Auto  
Freq Offset 0 Hz

## Occupied Bandwidth\_11B\_2462

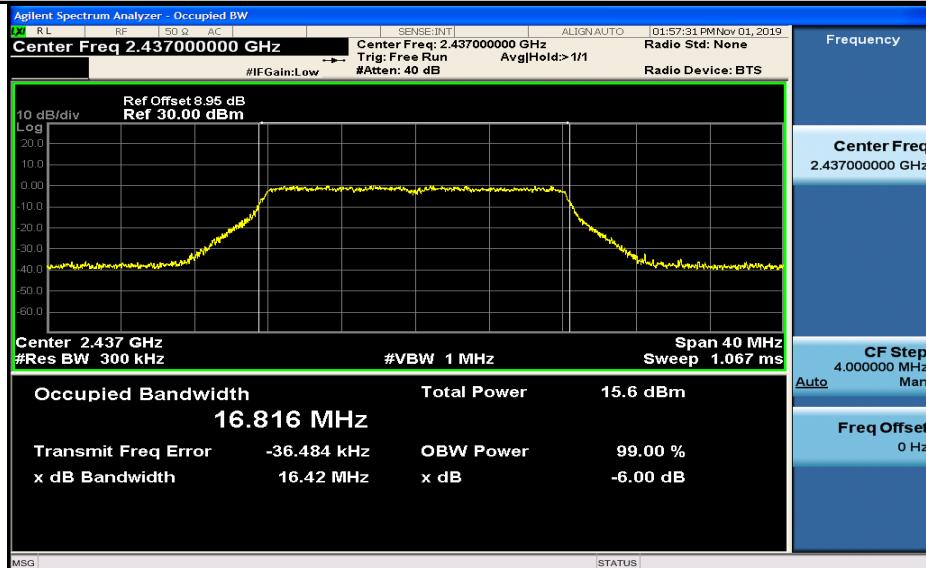


Frequency  
Center Freq 2.462000000 GHz  
CF Step 4.000000 MHz Man  
Auto  
Freq Offset 0 Hz

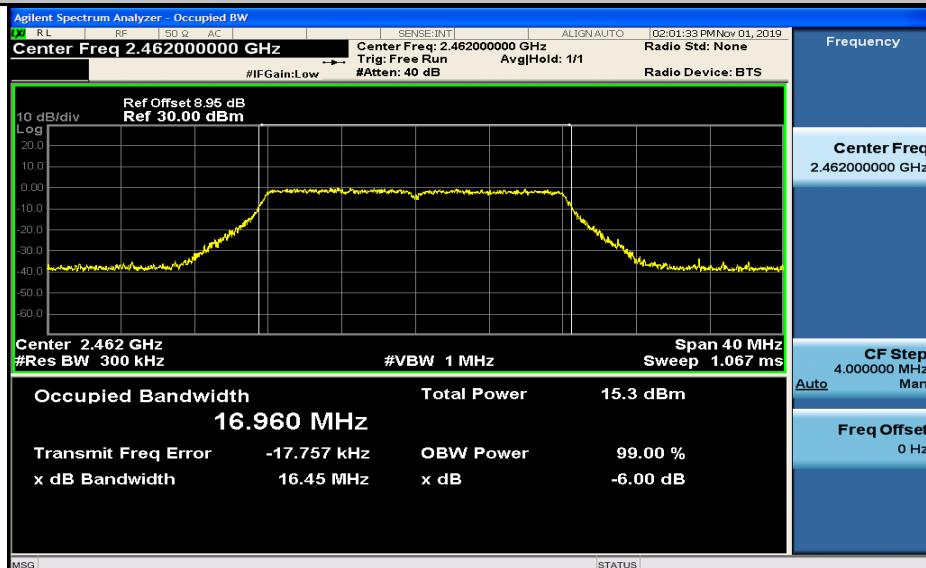
## Occupied Bandwidth\_11G\_2412



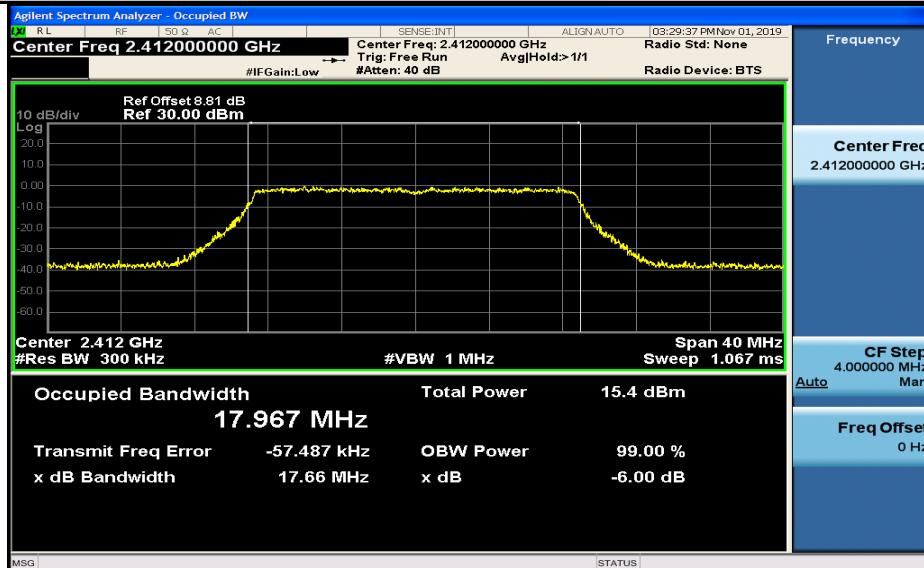
## Occupied Bandwidth\_11G\_2437



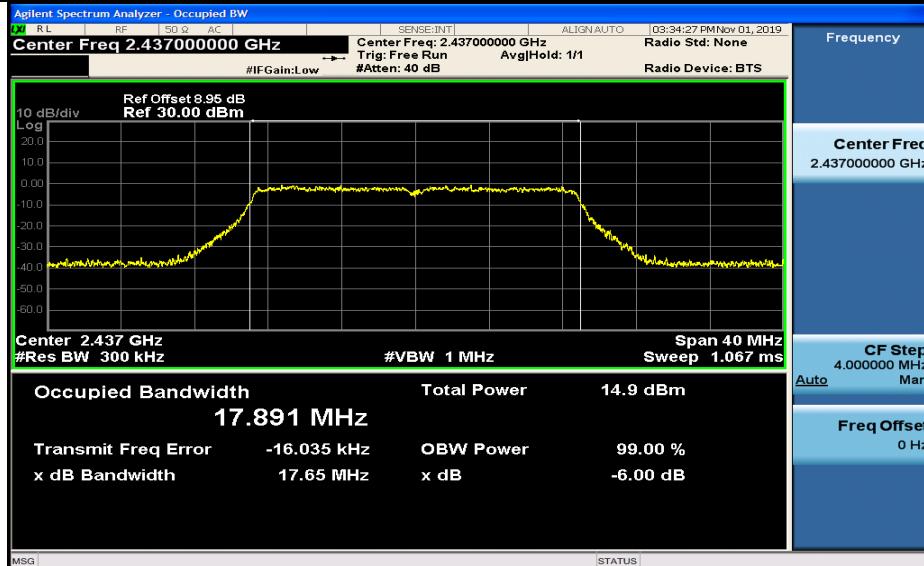
## Occupied Bandwidth\_11G\_2462



## Occupied Bandwidth\_11N20SISO\_2412



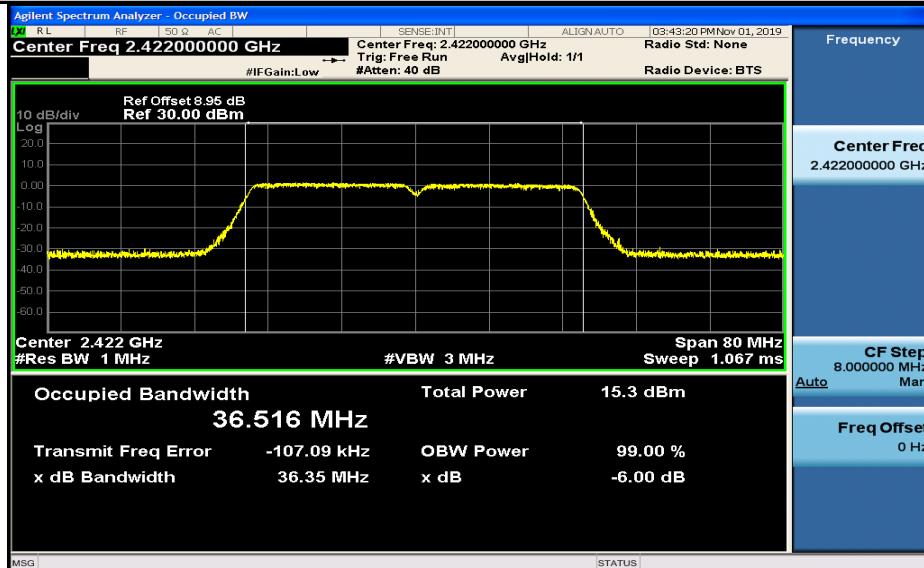
## Occupied Bandwidth\_11N20SISO\_2437



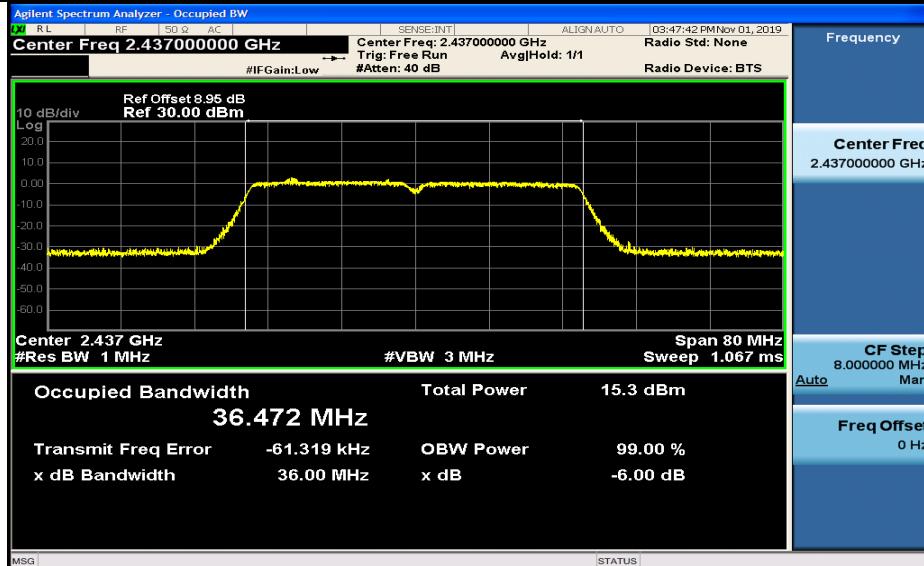
## Occupied Bandwidth\_11N20SISO\_2462



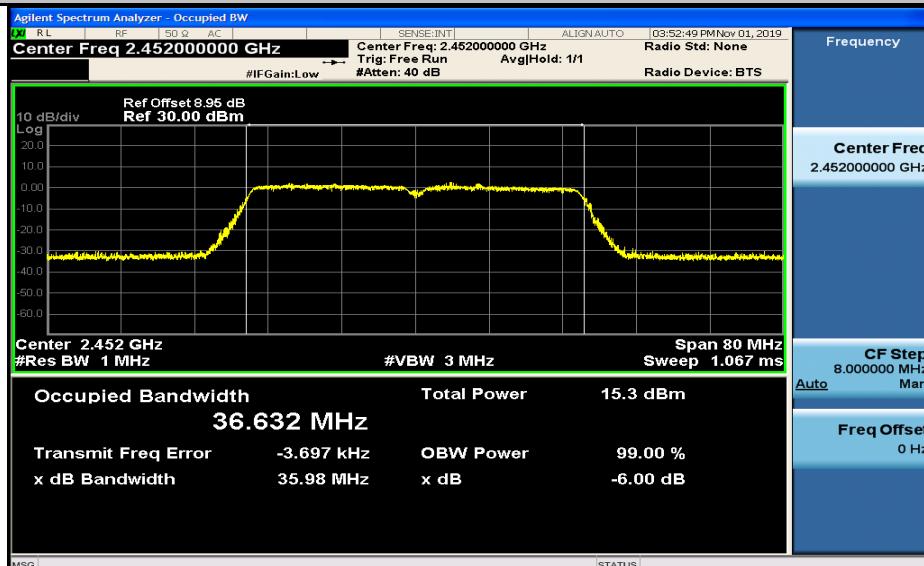
## Occupied Bandwidth\_11N40SISO\_2422



## Occupied Bandwidth\_11N40SISO\_2437



## Occupied Bandwidth\_11N40SISO\_2452

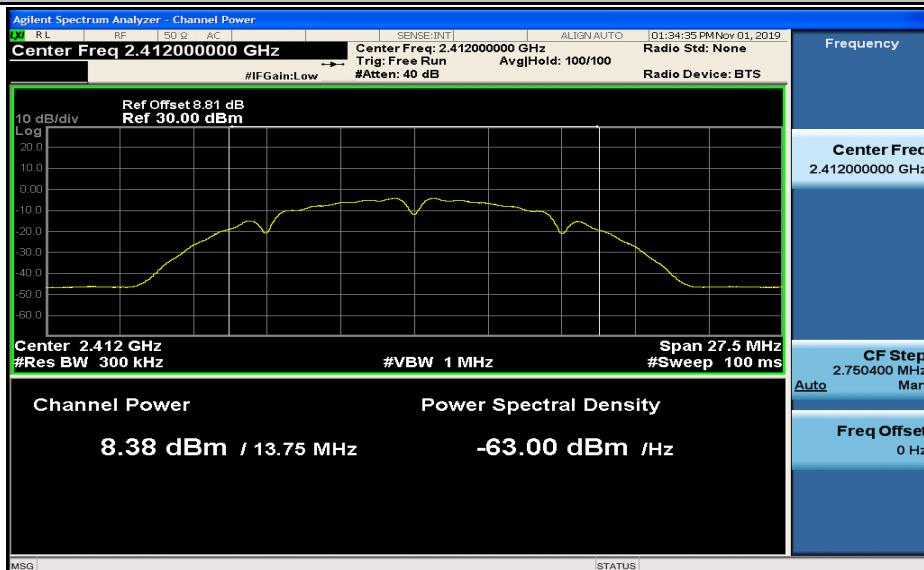




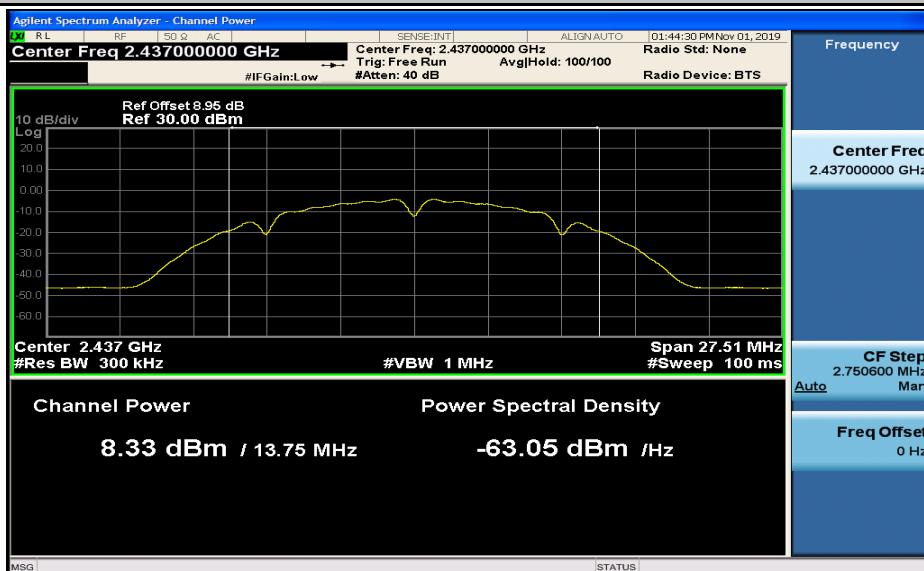
**3. Maximum conducted (average) output power**

| Test Mode | Test Channel | Ant  | Level [dBm] | 10log(1/x) Factor[dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|-----------------------|-------------|-------------|---------|
| 11B       | 2412         | Ant1 | 8.38        | 0.05                  | 8.43        | 30          | PASS    |
| 11B       | 2437         | Ant1 | 8.33        | 0.05                  | 8.38        | 30          | PASS    |
| 11B       | 2462         | Ant1 | 7.88        | 0.02                  | 7.90        | 30          | PASS    |
| 11G       | 2412         | Ant1 | 9.11        | 0.27                  | 9.38        | 30          | PASS    |
| 11G       | 2437         | Ant1 | 9.03        | 0.32                  | 9.35        | 30          | PASS    |
| 11G       | 2462         | Ant1 | 8.74        | 0.18                  | 8.92        | 30          | PASS    |
| 11N20SISO | 2412         | Ant1 | 8.54        | 0.27                  | 8.81        | 30          | PASS    |
| 11N20SISO | 2437         | Ant1 | 8.16        | 0.30                  | 8.46        | 30          | PASS    |
| 11N20SISO | 2462         | Ant1 | 7.66        | 0.36                  | 8.03        | 30          | PASS    |
| 11N40SISO | 2422         | Ant1 | 7.56        | 0.46                  | 8.02        | 30          | PASS    |
| 11N40SISO | 2437         | Ant1 | 7.52        | 0.22                  | 7.73        | 30          | PASS    |
| 11N40SISO | 2452         | Ant1 | 7.48        | 0.71                  | 8.19        | 30          | PASS    |

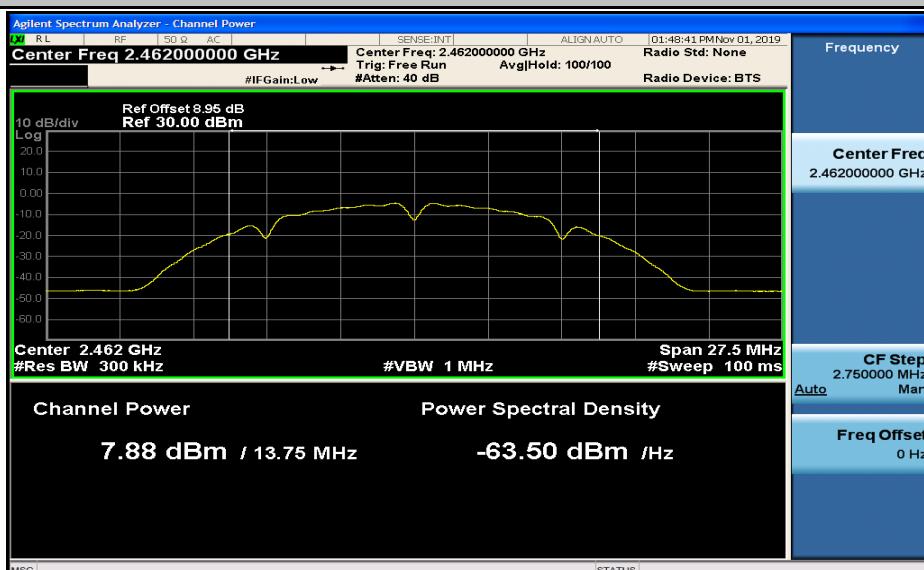
## Maximum conducted (average) output power\_11B\_2412\_Ant1



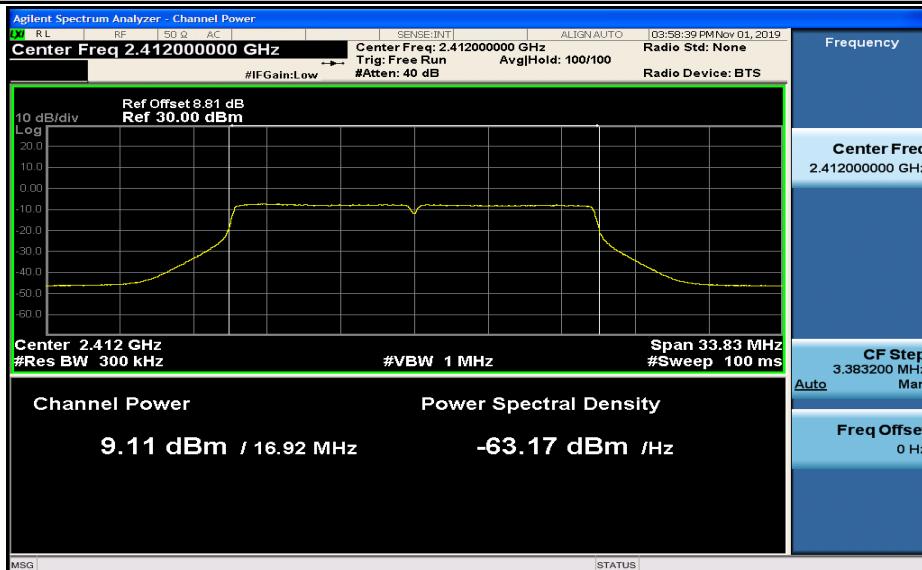
## Maximum conducted (average) output power\_11B\_2437\_Ant1



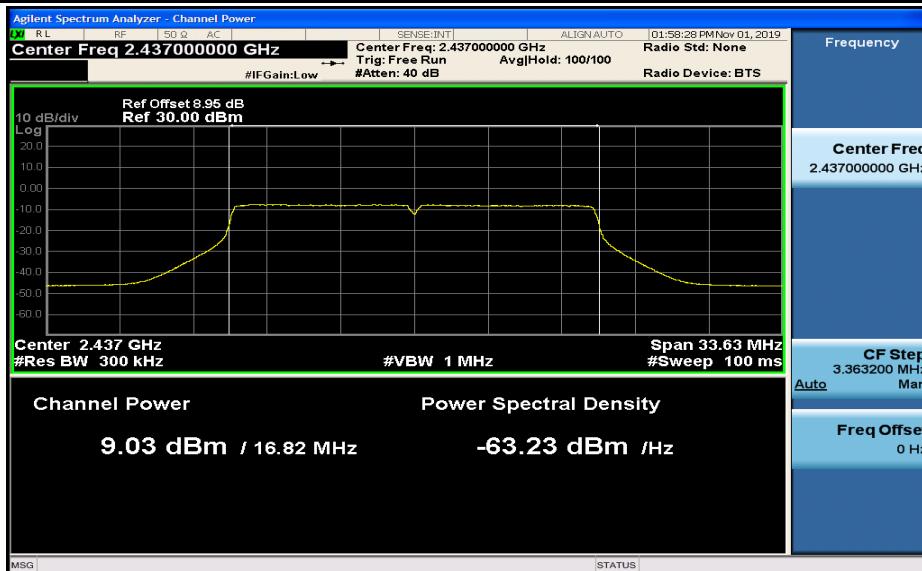
## Maximum conducted (average) output power\_11B\_2462\_Ant1



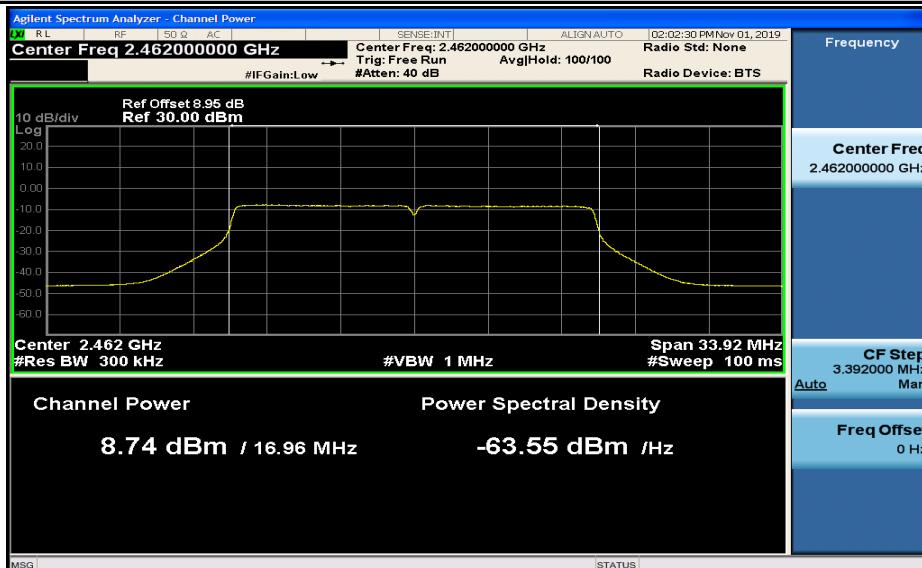
## Maximum conducted (average) output power\_11G\_2412\_Ant1



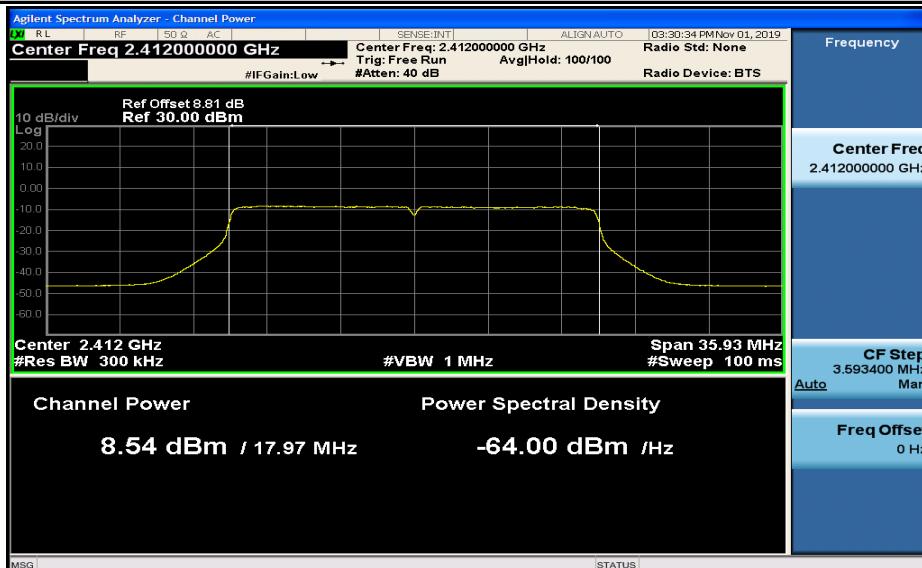
## Maximum conducted (average) output power\_11G\_2437\_Ant1



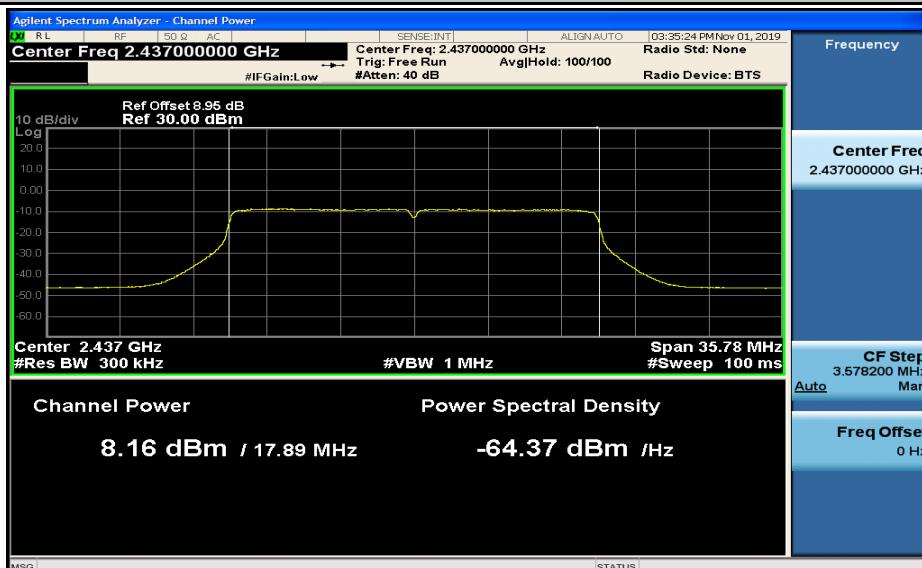
## Maximum conducted (average) output power\_11G\_2462\_Ant1



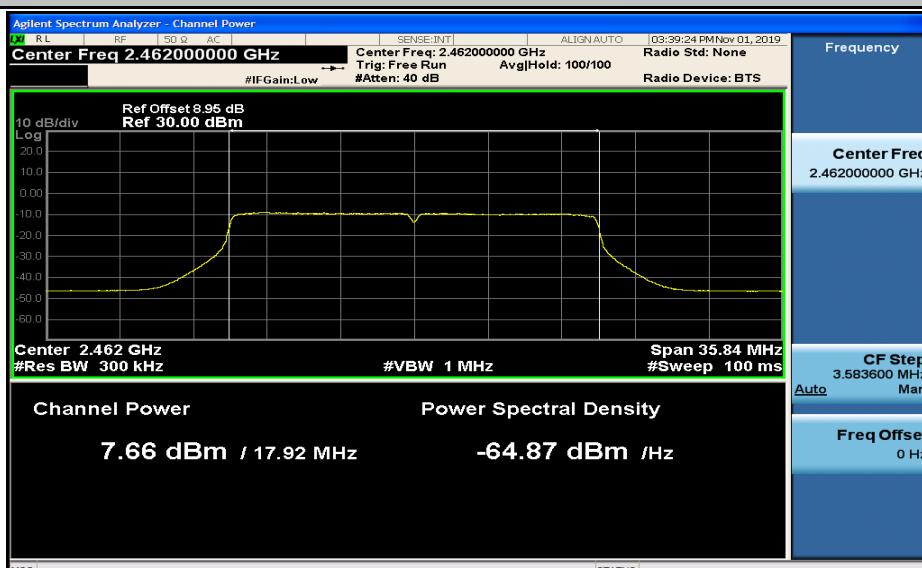
## Maximum conducted (average) output power\_11N20SISO\_2412\_Ant1



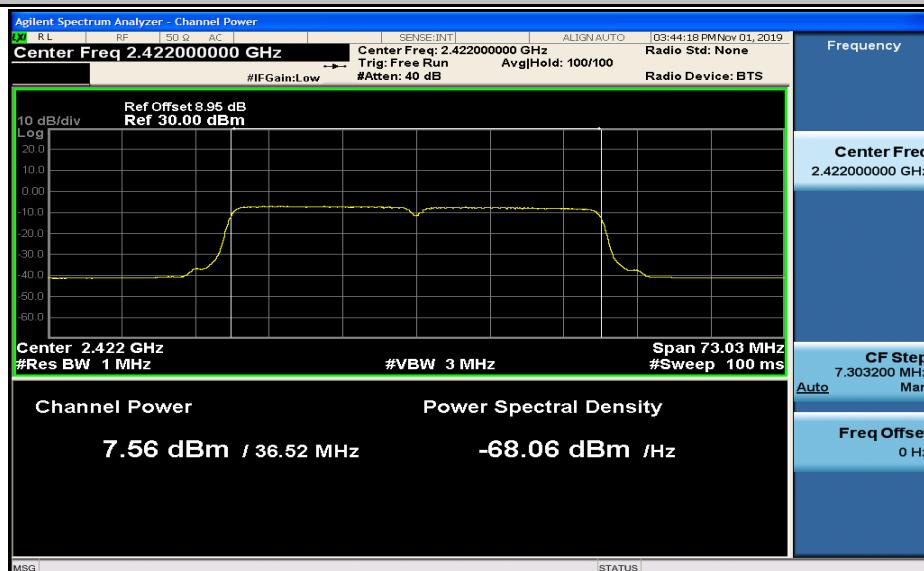
## Maximum conducted (average) output power\_11N20SISO\_2437\_Ant1



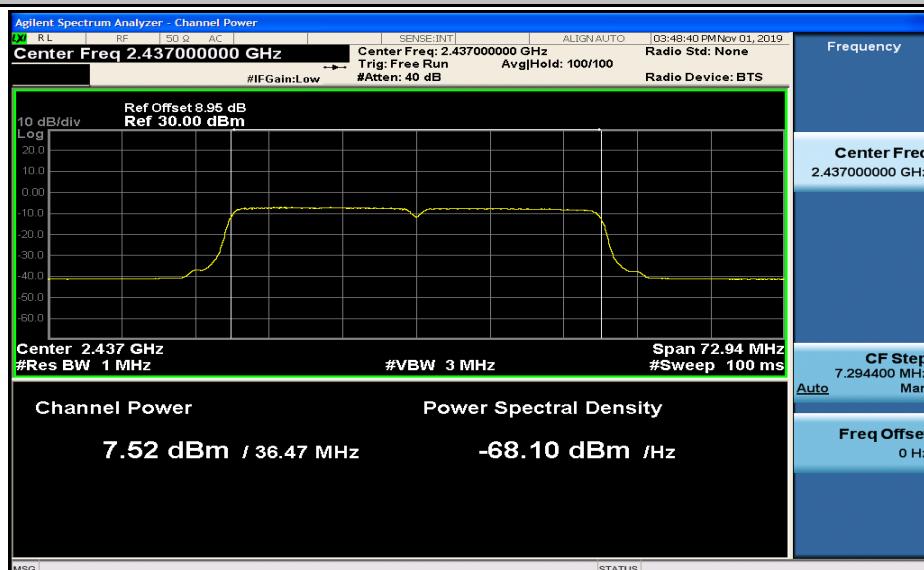
## Maximum conducted (average) output power\_11N20SISO\_2462\_Ant1



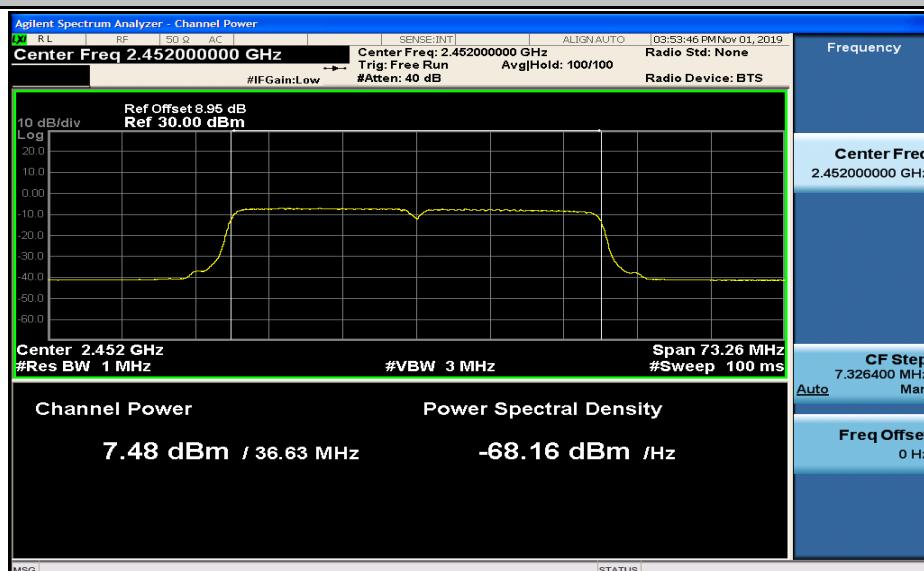
## Maximum conducted (average) output power\_11N40SISO\_2422\_Ant1



## Maximum conducted (average) output power\_11N40SISO\_2437\_Ant1



## Maximum conducted (average) output power\_11N40SISO\_2452\_Ant1





**4. Maximum(average) power spectral density**

| Test Mode | Test Channel | Ant  | Level [dBm/3kHz] | 10log(1/x) Factor[dB] | PSD[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|--------------|------|------------------|-----------------------|---------------|-----------------|---------|
| 11B       | 2412         | Ant1 | -23.45           | 0.05                  | -23.40        | 8.00            | PASS    |
| 11B       | 2437         | Ant1 | -23.28           | 0.05                  | -23.23        | 8.00            | PASS    |
| 11B       | 2462         | Ant1 | -24.02           | 0.02                  | -24.00        | 8.00            | PASS    |
| 11G       | 2412         | Ant1 | -24.10           | 0.27                  | -23.83        | 8.00            | PASS    |
| 11G       | 2437         | Ant1 | -24.65           | 0.32                  | -24.33        | 8.00            | PASS    |
| 11G       | 2462         | Ant1 | -24.82           | 0.18                  | -24.64        | 8.00            | PASS    |
| 11N20SISO | 2412         | Ant1 | -24.74           | 0.27                  | -24.47        | 8.00            | PASS    |
| 11N20SISO | 2437         | Ant1 | -25.04           | 0.30                  | -24.74        | 8.00            | PASS    |
| 11N20SISO | 2462         | Ant1 | -25.94           | 0.36                  | -25.58        | 8.00            | PASS    |
| 11N40SISO | 2422         | Ant1 | -27.44           | 0.46                  | -26.98        | 8.00            | PASS    |
| 11N40SISO | 2437         | Ant1 | -27.90           | 0.22                  | -27.68        | 8.00            | PASS    |
| 11N40SISO | 2452         | Ant1 | -28.23           | 0.71                  | -27.52        | 8.00            | PASS    |

## Maximum(average) power spectral density\_11B\_2412\_Ant1



## Maximum(average) power spectral density\_11B\_2437\_Ant1



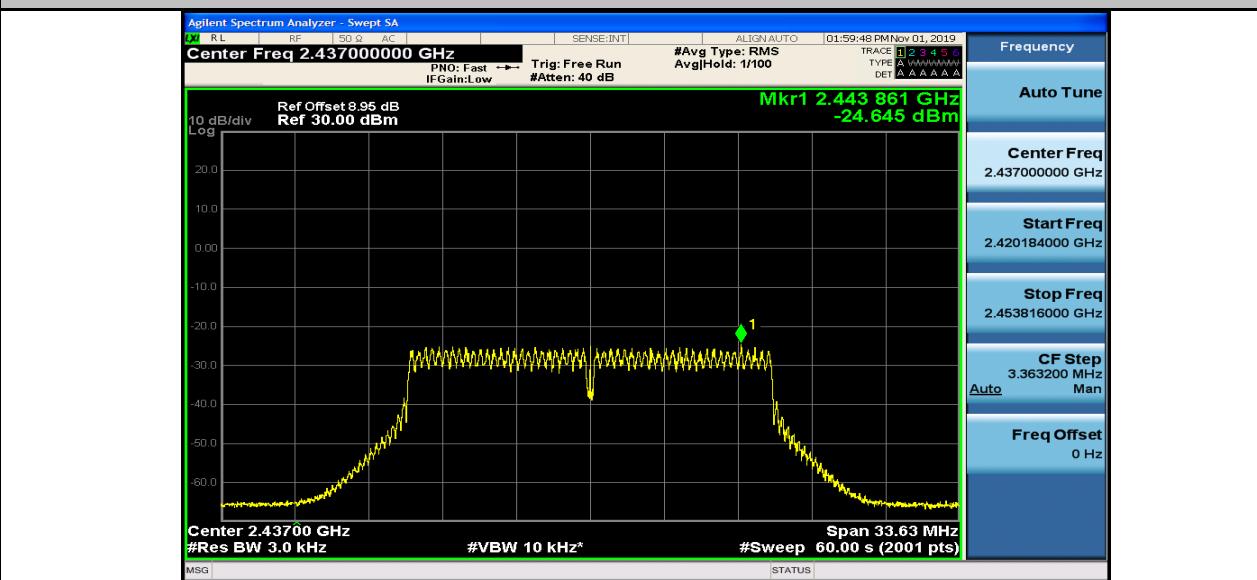
## Maximum(average) power spectral density\_11B\_2462\_Ant1



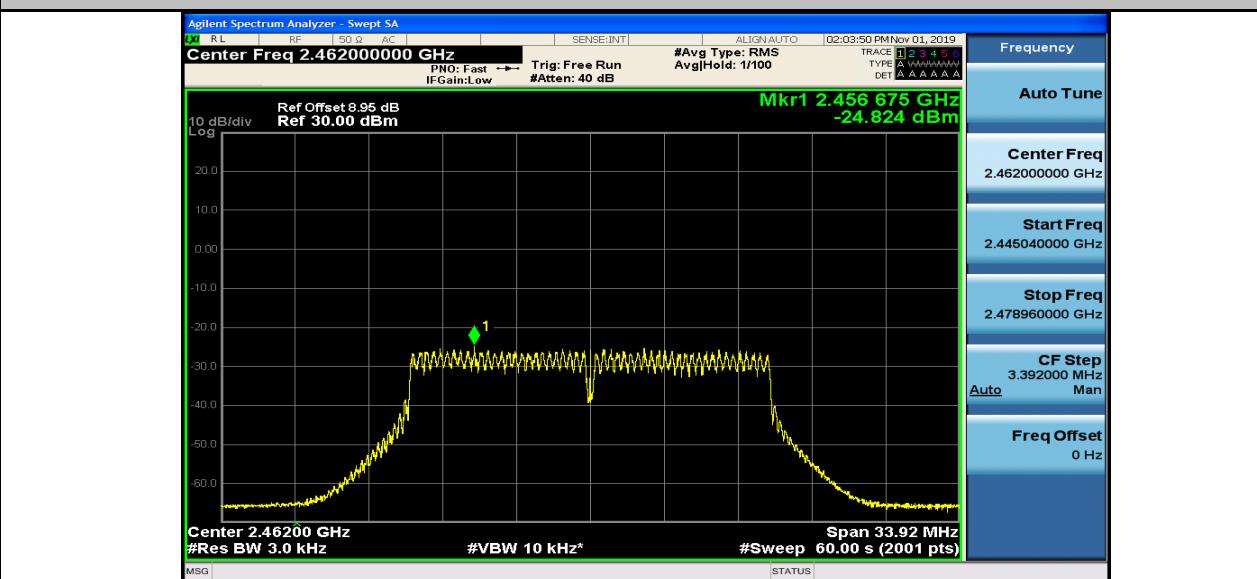
## Maximum(average) power spectral density\_11G\_2412\_Ant1



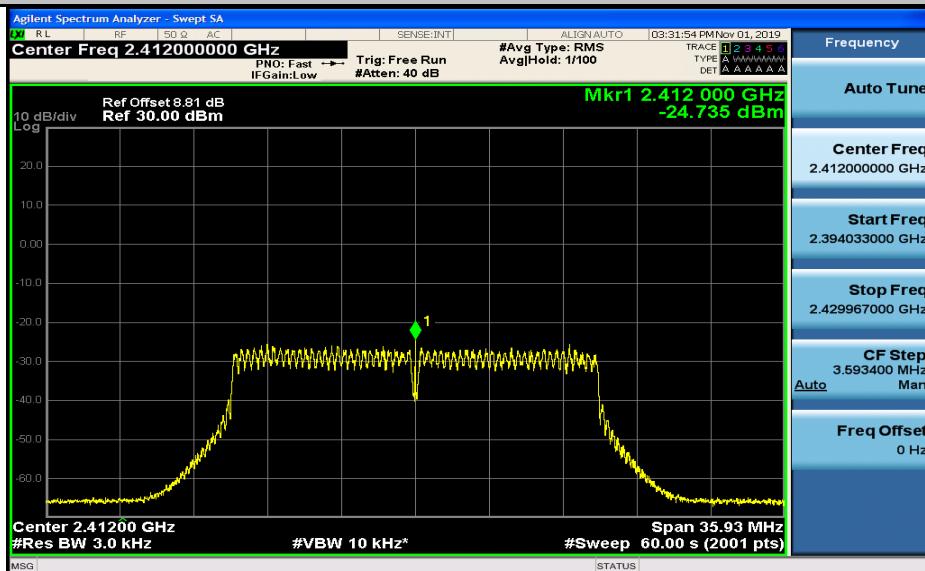
## Maximum(average) power spectral density\_11G\_2437\_Ant1



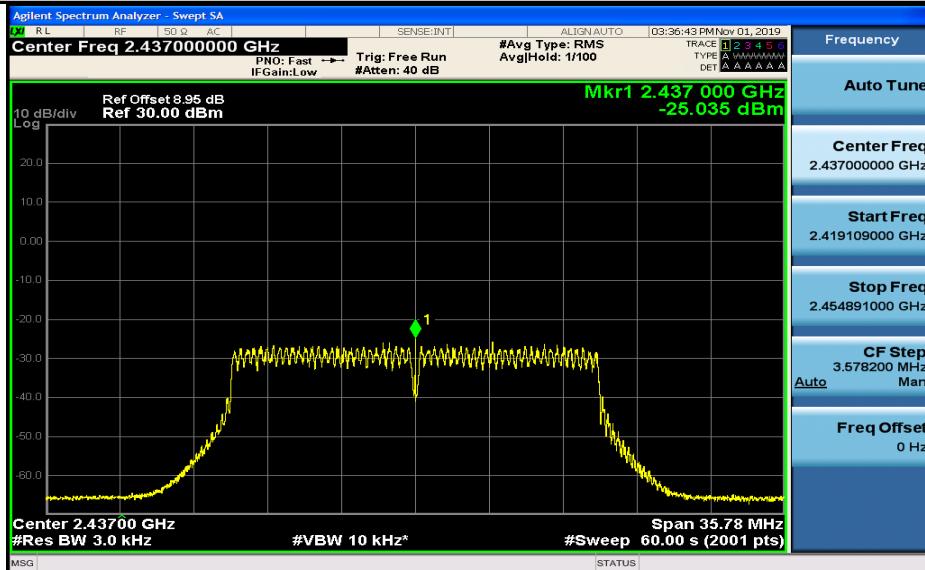
## Maximum(average) power spectral density\_11G\_2462\_Ant1



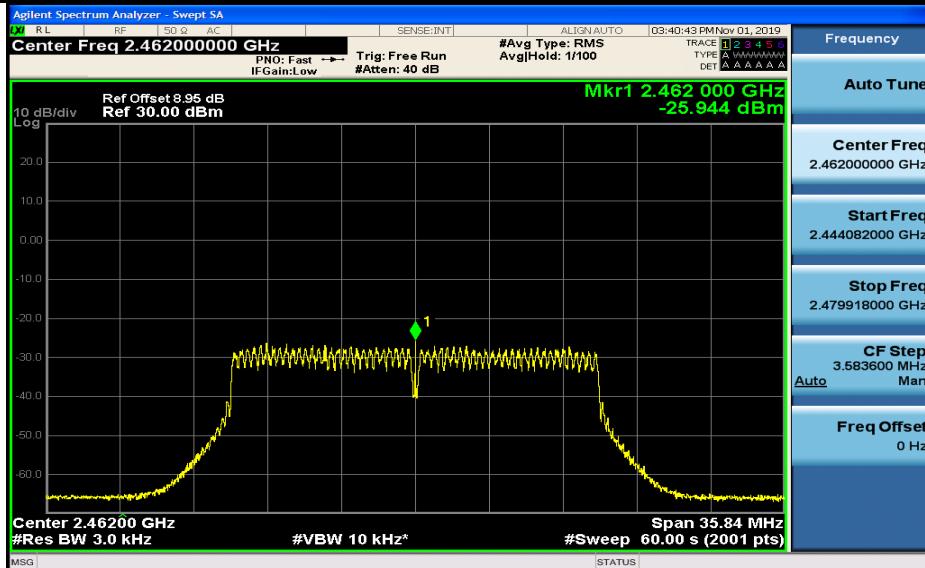
## Maximum(average) power spectral density\_11N20SISO\_2412\_Ant1



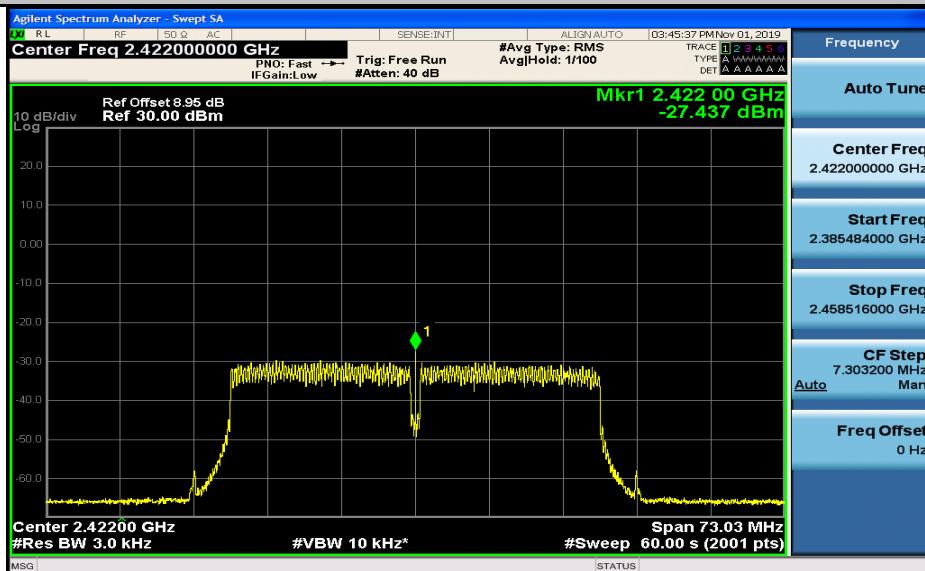
## Maximum(average) power spectral density\_11N20SISO\_2437\_Ant1



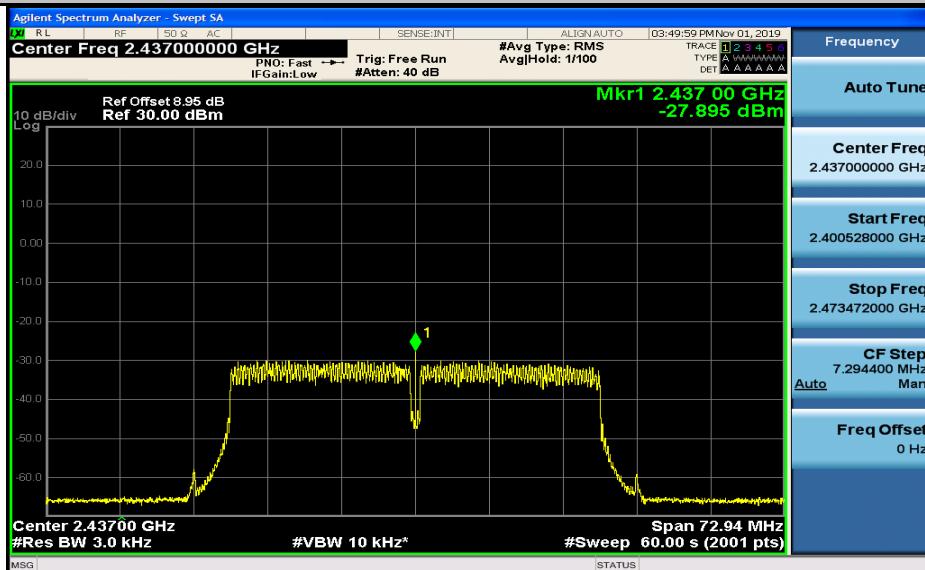
## Maximum(average) power spectral density\_11N20SISO\_2462\_Ant1



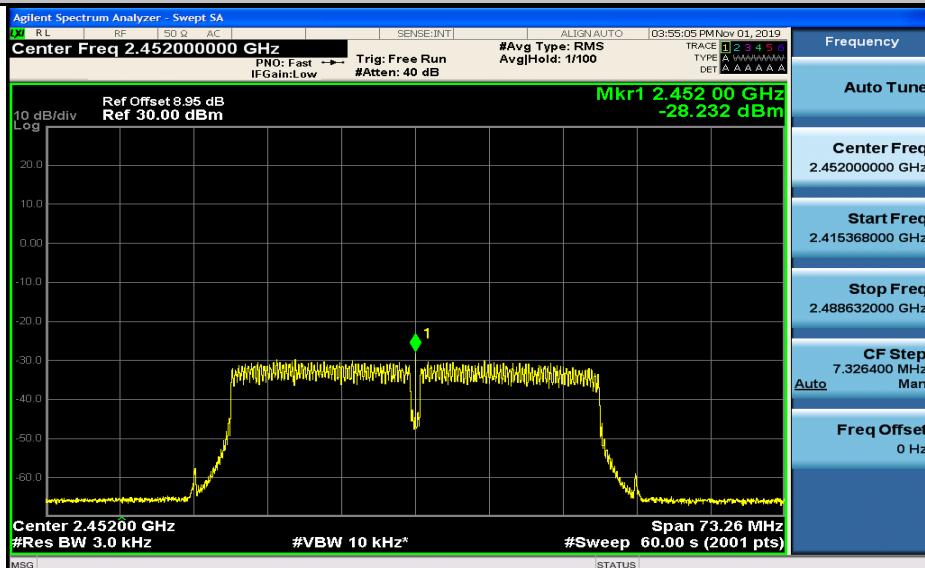
## Maximum(average) power spectral density\_11N40SISO\_2422\_Ant1



## Maximum(average) power spectral density\_11N40SISO\_2437\_Ant1



## Maximum(average) power spectral density\_11N40SISO\_2452\_Ant1

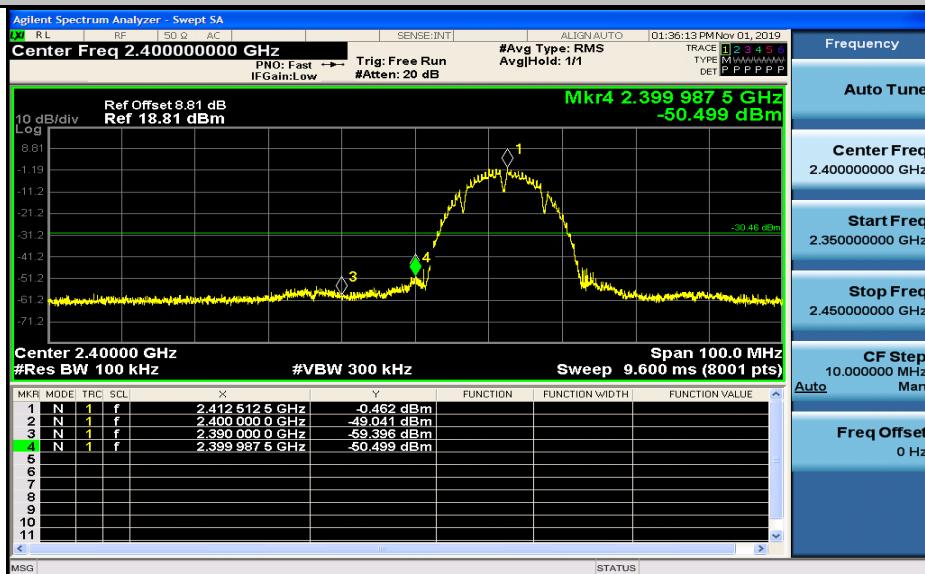




**5.Band-edge for RF Conducted Emissions**

| Test Mode | Test Channel | Ant  | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|--------------------|---------------------------|-------------|---------|
| 11B       | 2412         | Ant1 | -0.46              | -49.04                    | -30.46      | PASS    |
| 11B       | 2462         | Ant1 | -0.71              | -56.91                    | -30.71      | PASS    |
| 11G       | 2412         | Ant1 | -1.99              | -41.00                    | -31.99      | PASS    |
| 11G       | 2462         | Ant1 | -2.34              | -55.53                    | -32.34      | PASS    |
| 11N20SISO | 2412         | Ant1 | -2.90              | -41.07                    | -32.90      | PASS    |
| 11N20SISO | 2462         | Ant1 | -3.33              | -56.99                    | -33.33      | PASS    |
| 11N40SISO | 2422         | Ant1 | -6.26              | -40.68                    | -36.26      | PASS    |
| 11N40SISO | 2452         | Ant1 | -6.27              | -54.77                    | -36.27      | PASS    |

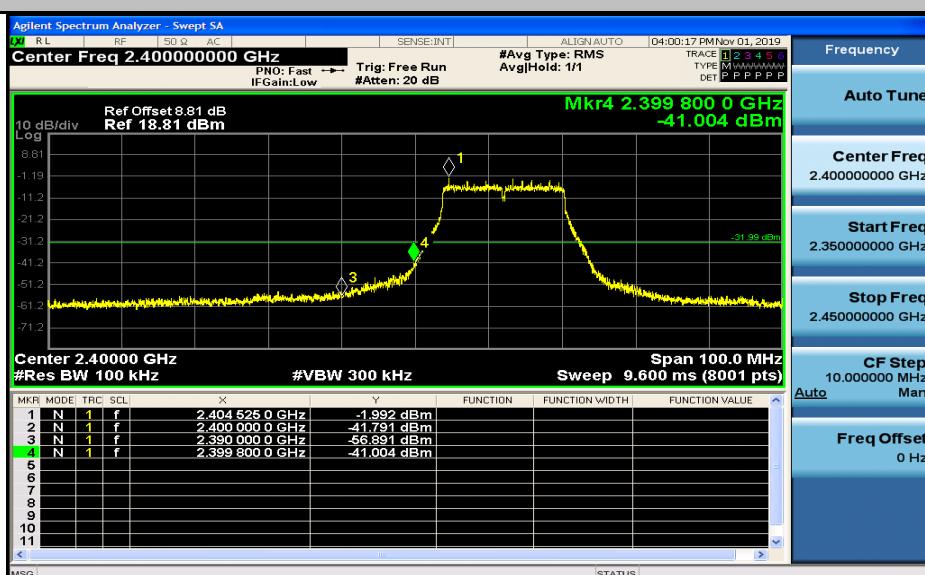
Band-edge for RF Conducted Emissions\_11B\_2412\_Ant1



Band-edge for RF Conducted Emissions\_11B\_2462\_Ant1



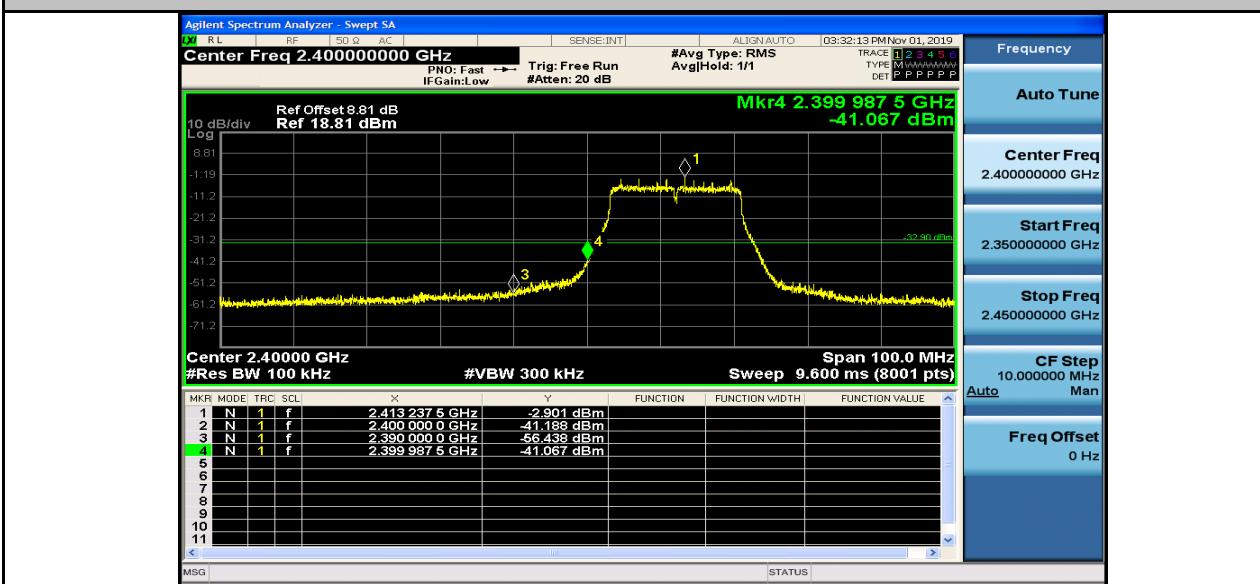
Band-edge for RF Conducted Emissions 11G 2412 Ant1



Band-edge for RF Conducted Emissions\_11G\_2462\_Ant1



Band-edge for RF Conducted Emissions\_11N20SISO\_2412\_Ant1



Band-edge for RF Conducted Emissions\_11N20SISO\_2462\_Ant1



## Band-edge for RF Conducted Emissions\_11N40SISO\_2422\_Ant1



## Band-edge for RF Conducted Emissions\_11N40SISO\_2452\_Ant1



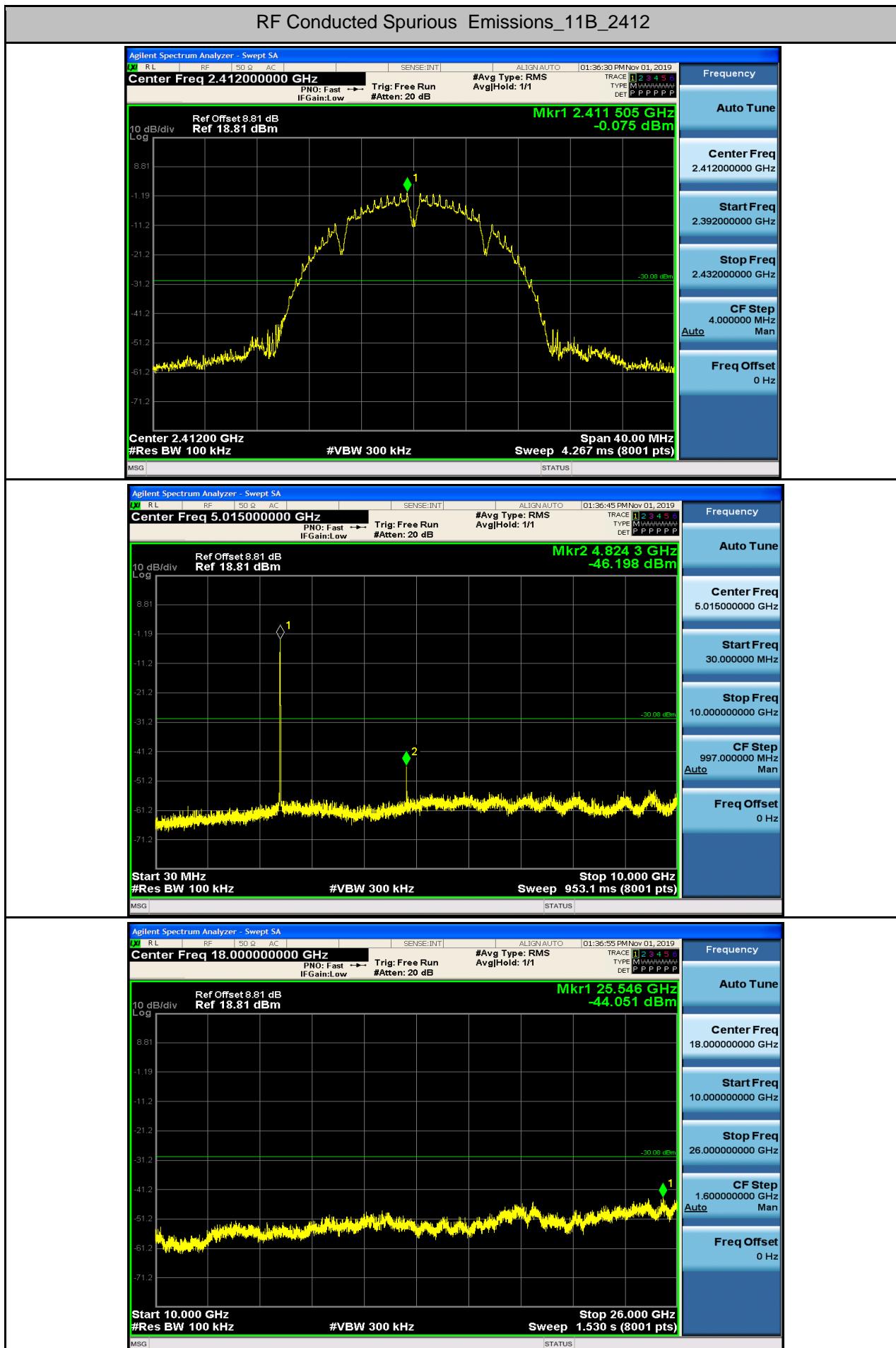


## 6.RF Conducted Spurious Emissions

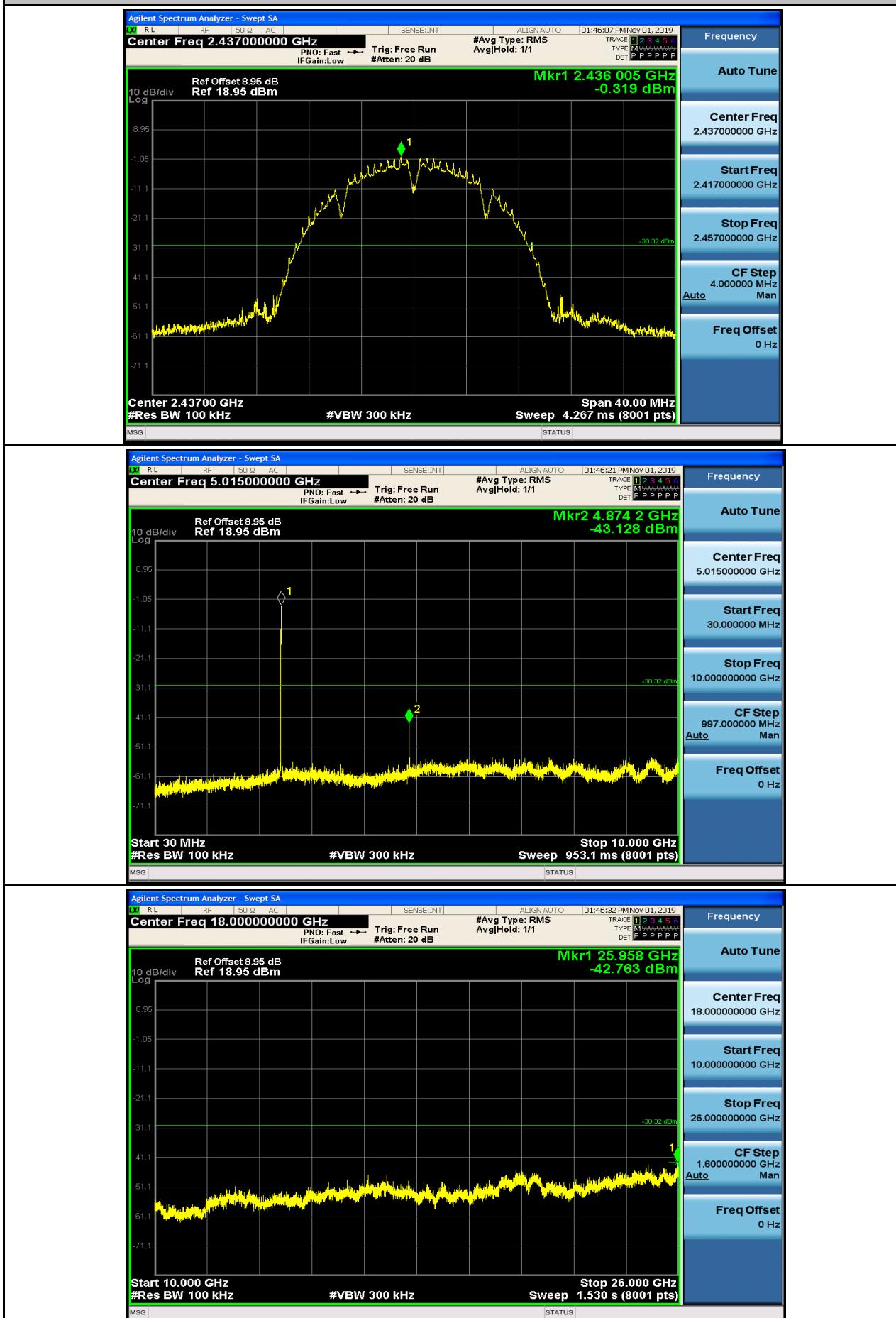
| Test Mode | Test Channel | Ant  | StartFre [MHz] | StopFre [MHz] | RBW [kHz] | VBW [kHz] | Pref[dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|----------------|---------------|-----------|-----------|-----------|------------------|-------------|---------|
| 11B       | 2412         | Ant1 | 30             | 10000         | 100       | 300       | -0.08     | -46.20           | <- 30.08    | PASS    |
| 11B       | 2412         | Ant1 | 10000          | 26000         | 100       | 300       | -0.075    | -44.051          | <- 30.075   | PASS    |
| 11B       | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -0.32     | -43.13           | <- 30.32    | PASS    |
| 11B       | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -0.319    | -42.763          | <- 30.319   | PASS    |
| 11B       | 2462         | Ant1 | 30             | 10000         | 100       | 300       | -0.32     | -44.47           | <- 30.32    | PASS    |
| 11B       | 2462         | Ant1 | 10000          | 26000         | 100       | 300       | -0.319    | -43.847          | <- 30.319   | PASS    |
| 11G       | 2412         | Ant1 | 30             | 10000         | 100       | 300       | -2.06     | -52.33           | <- 32.06    | PASS    |
| 11G       | 2412         | Ant1 | 10000          | 26000         | 100       | 300       | -2.058    | -43.693          | <- 32.058   | PASS    |
| 11G       | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -1.95     | -49.66           | <- 31.95    | PASS    |
| 11G       | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -1.954    | -42.365          | <- 31.954   | PASS    |
| 11G       | 2462         | Ant1 | 30             | 10000         | 100       | 300       | -2.44     | -51.72           | <- 32.44    | PASS    |
| 11G       | 2462         | Ant1 | 10000          | 26000         | 100       | 300       | -2.442    | -44.391          | <- 32.442   | PASS    |
| 11N20SISO | 2412         | Ant1 | 30             | 10000         | 100       | 300       | -2.70     | -53.44           | <- 32.70    | PASS    |
| 11N20SISO | 2412         | Ant1 | 10000          | 26000         | 100       | 300       | -2.697    | -44.386          | <- 32.697   | PASS    |
| 11N20SISO | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -2.88     | -52.58           | <- 32.88    | PASS    |
| 11N20SISO | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -2.882    | -43.927          | <- 32.882   | PASS    |
| 11N20SISO | 2462         | Ant1 | 30             | 10000         | 100       | 300       | -3.17     | -53.01           | <- 33.17    | PASS    |
| 11N20SISO | 2462         | Ant1 | 10000          | 26000         | 100       | 300       | -3.168    | -44.000          | <- 33.168   | PASS    |
| 11N40SISO | 2422         | Ant1 | 30             | 10000         | 100       | 300       | -5.88     | -52.72           | <- 35.88    | PASS    |
| 11N40SISO | 2422         | Ant1 | 10000          | 26000         | 100       | 300       | -5.883    | -44.058          | <- 35.883   | PASS    |
| 11N40SISO | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -6.05     | -54.33           | <- 36.05    | PASS    |
| 11N40SISO | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -6.048    | -44.124          | <- 36.048   | PASS    |
| 11N40SISO | 2452         | Ant1 | 30             | 10000         | 100       | 300       | -6.08     | -51.65           | <- 36.08    | PASS    |



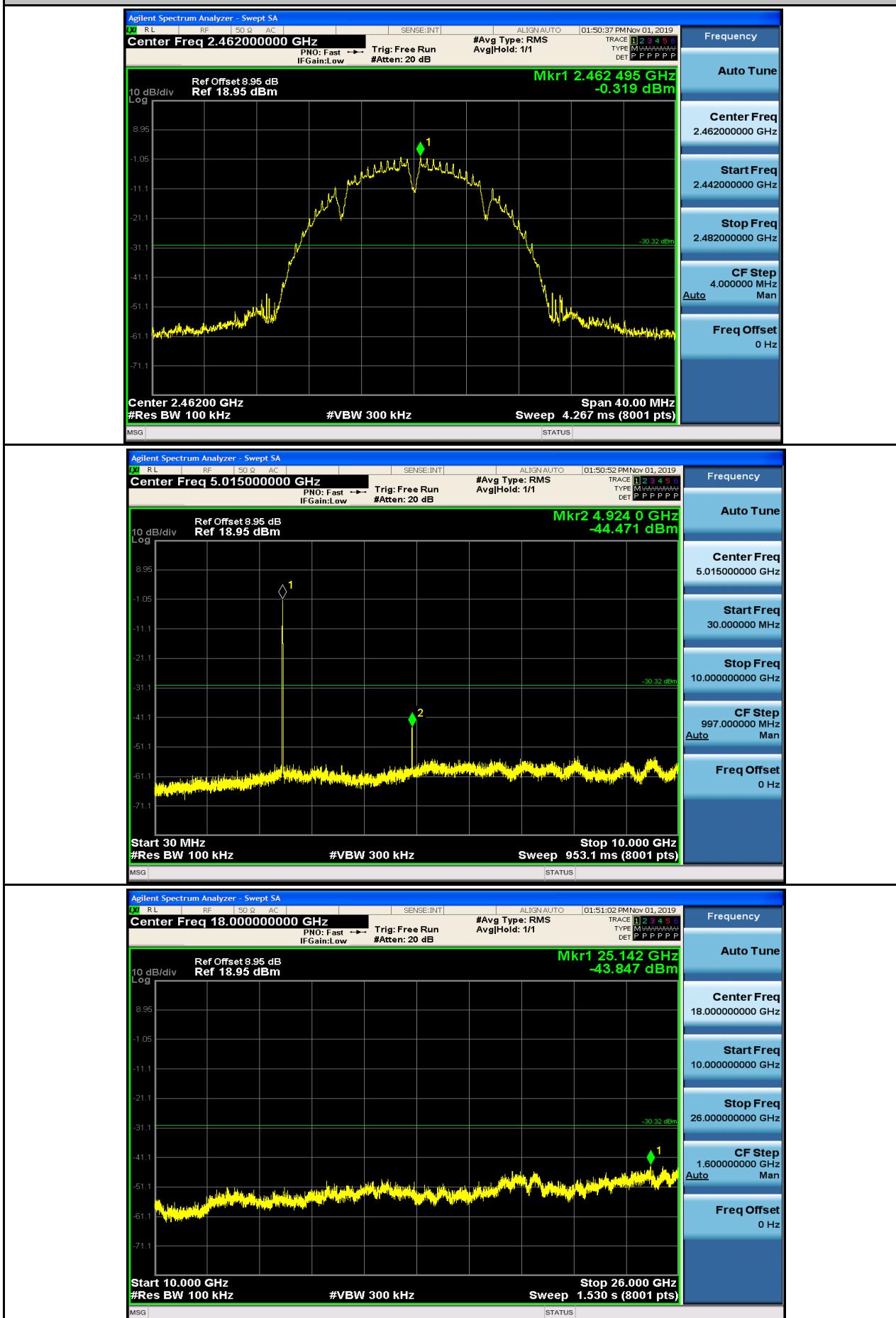
|           |      |      |       |       |     |     |        |         |             |      |
|-----------|------|------|-------|-------|-----|-----|--------|---------|-------------|------|
| 11N40SISO | 2452 | Ant1 | 10000 | 26000 | 100 | 300 | -6.083 | -43.729 | <<br>36.083 | PASS |
|-----------|------|------|-------|-------|-----|-----|--------|---------|-------------|------|



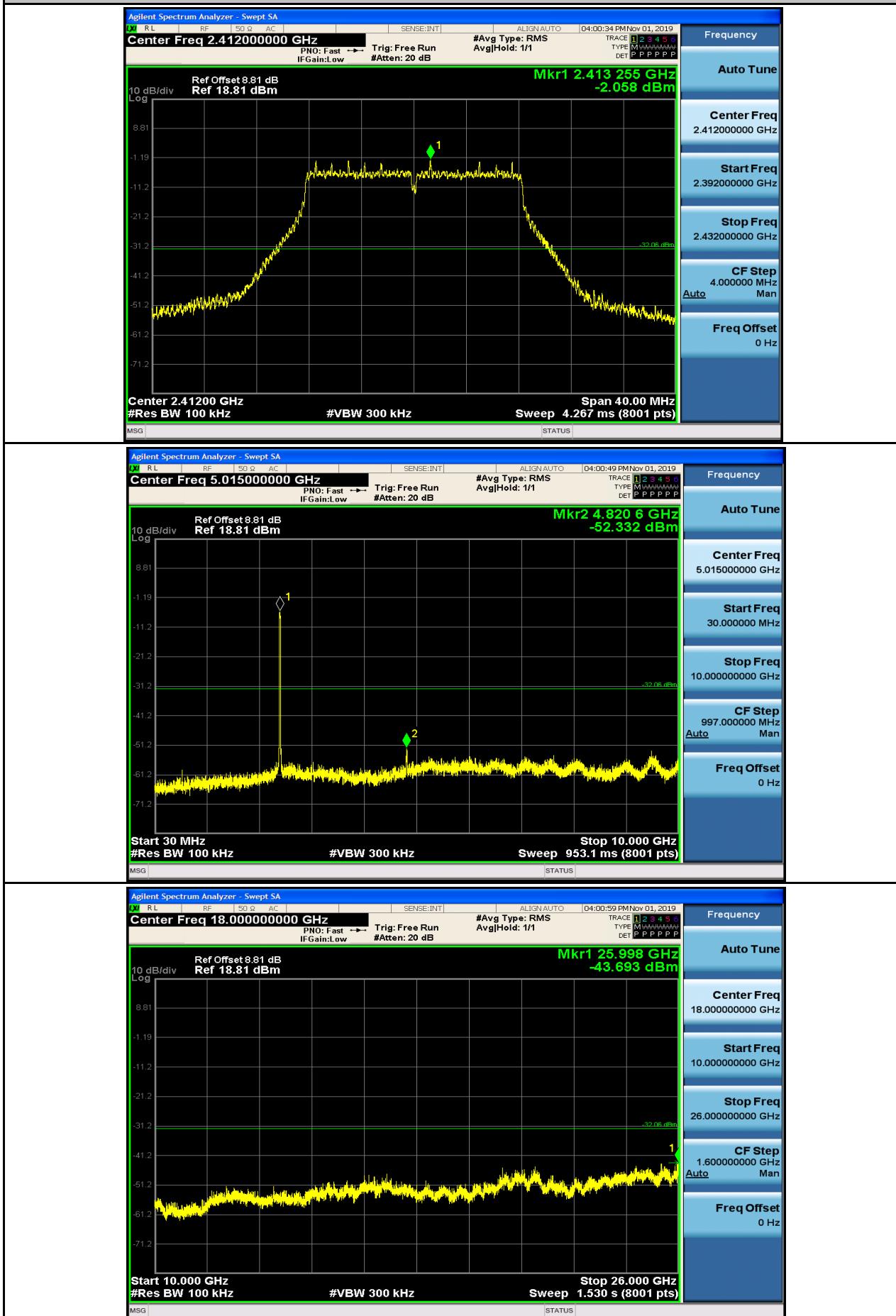
## RF Conducted Spurious Emissions\_11B\_2437



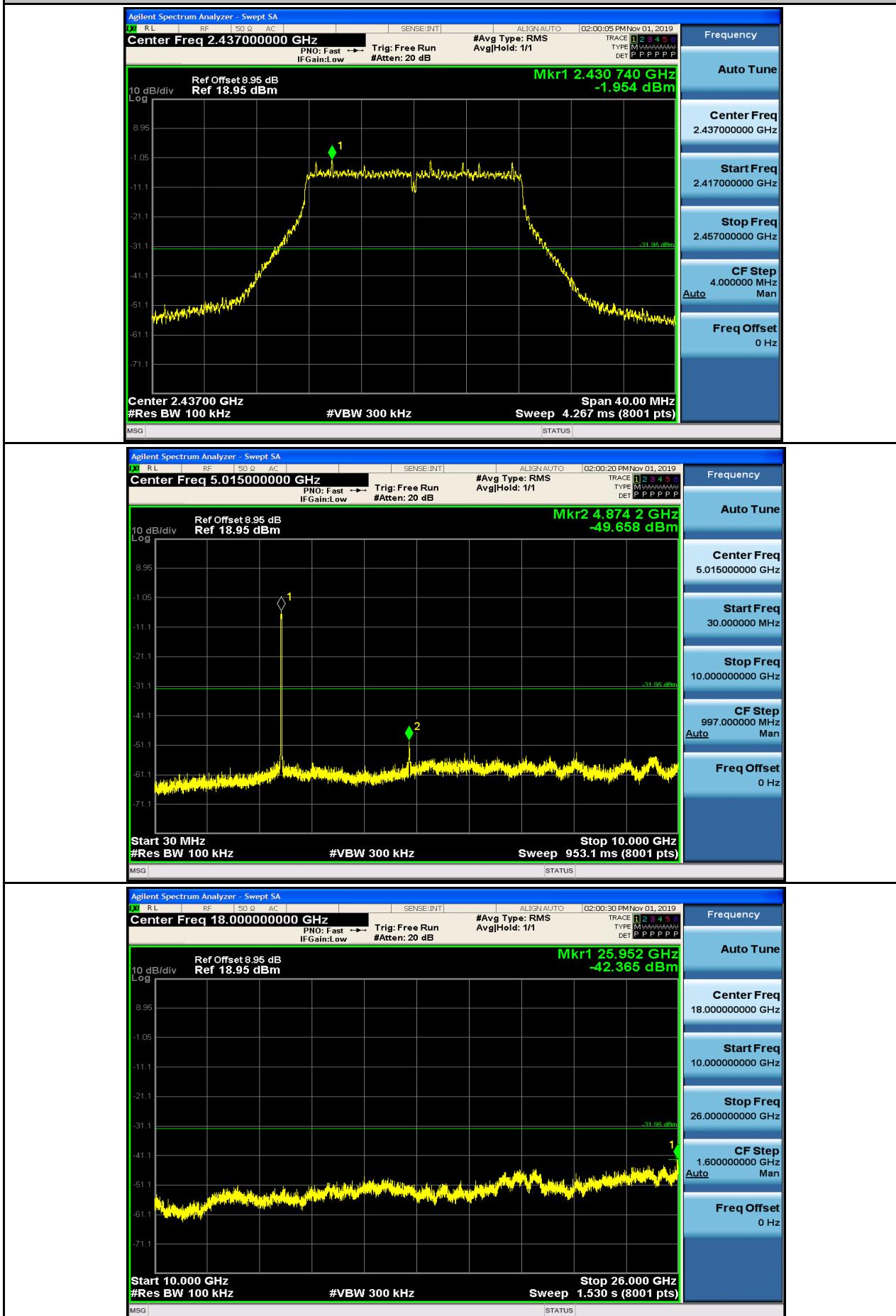
## RF Conducted Spurious Emissions\_11B\_2462



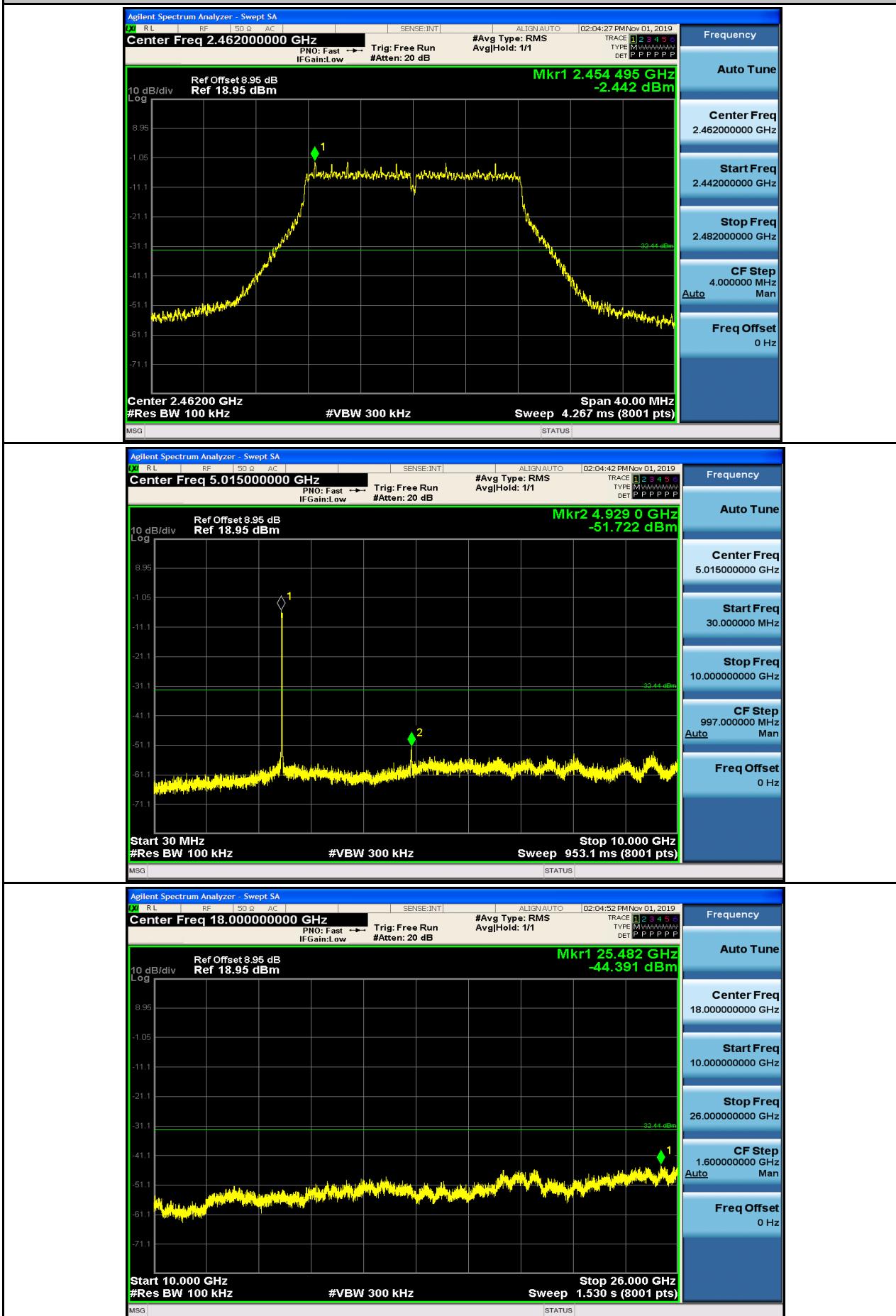
## RF Conducted Spurious Emissions\_11G\_2412



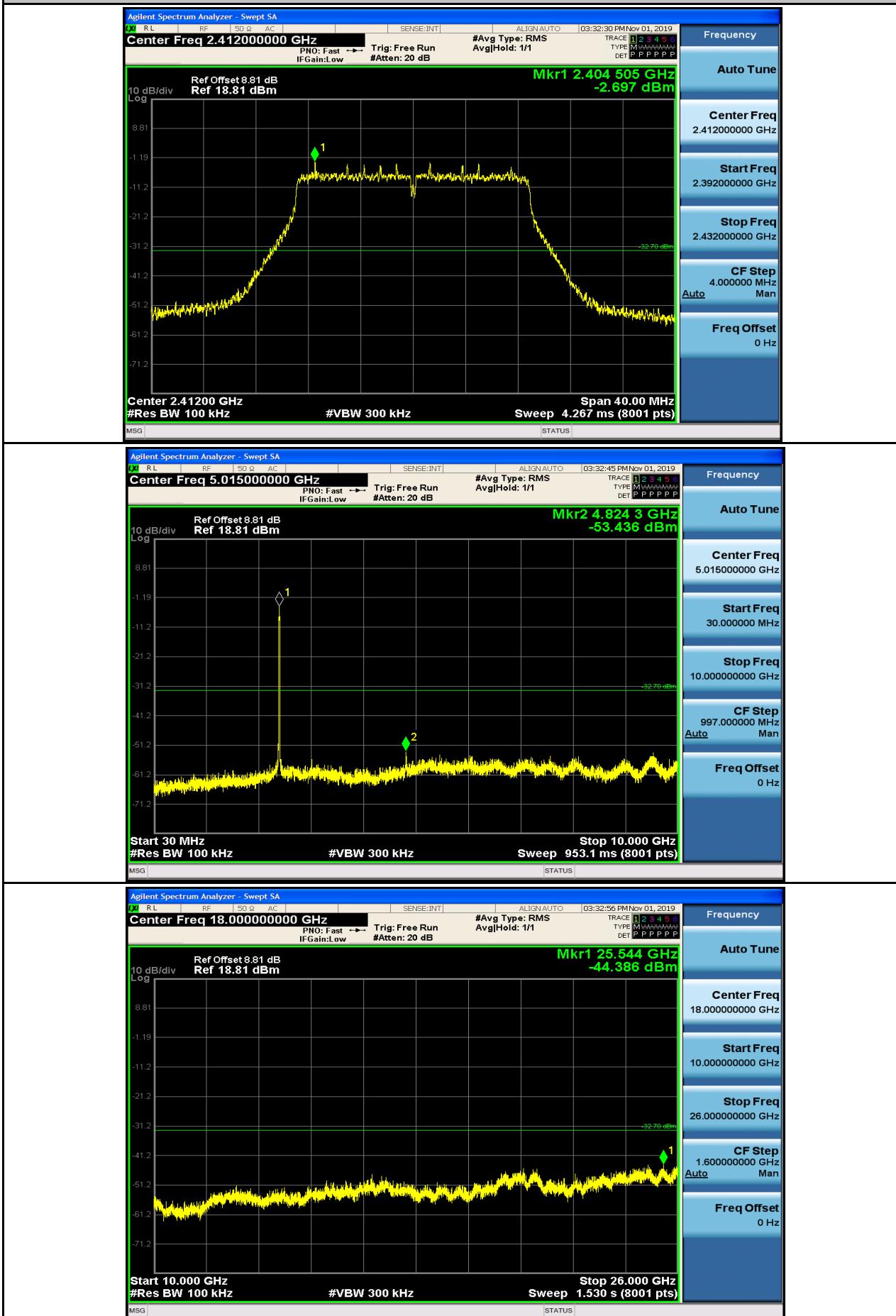
## RF Conducted Spurious Emissions\_11G\_2437



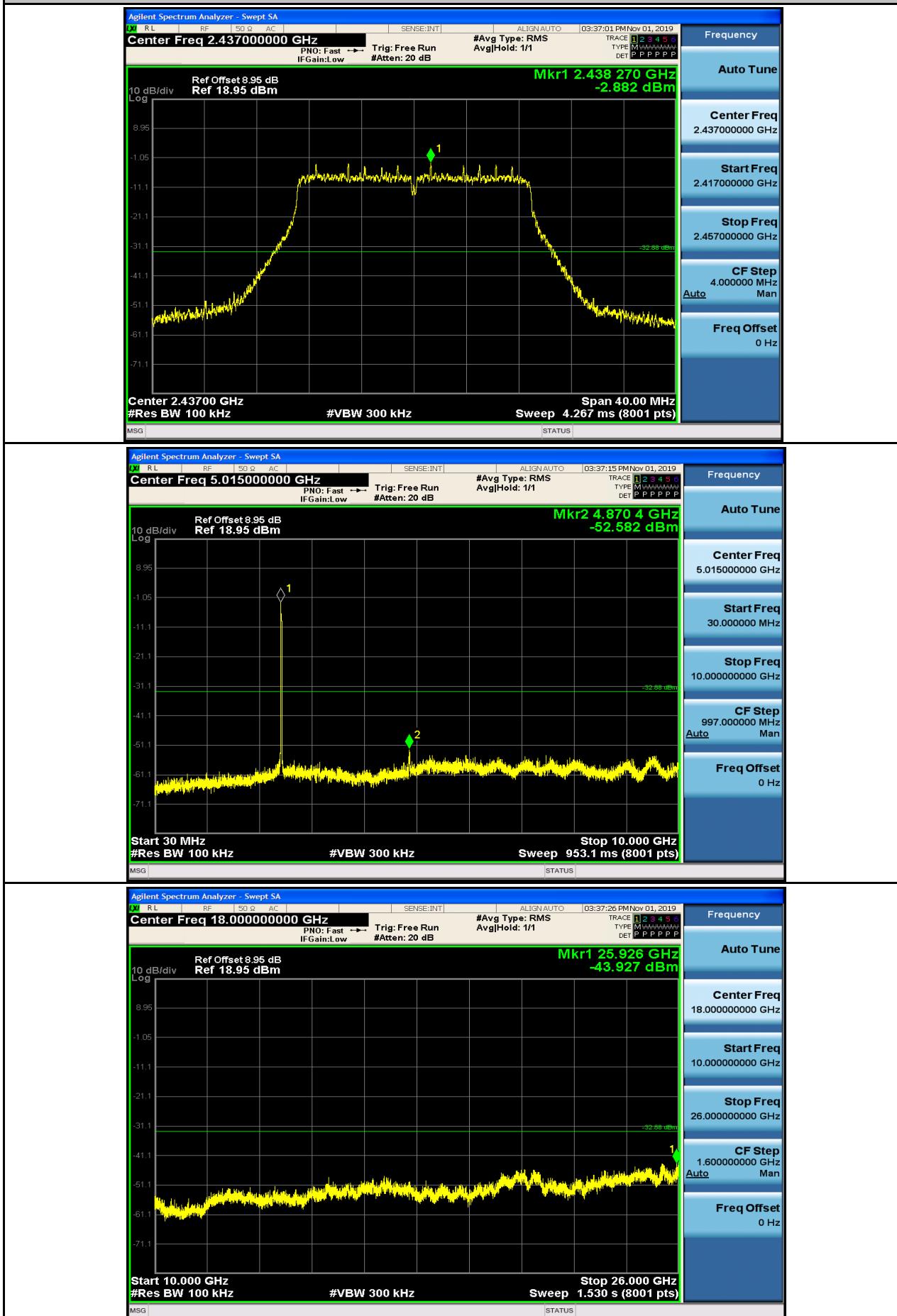
## RF Conducted Spurious Emissions\_11G\_2462



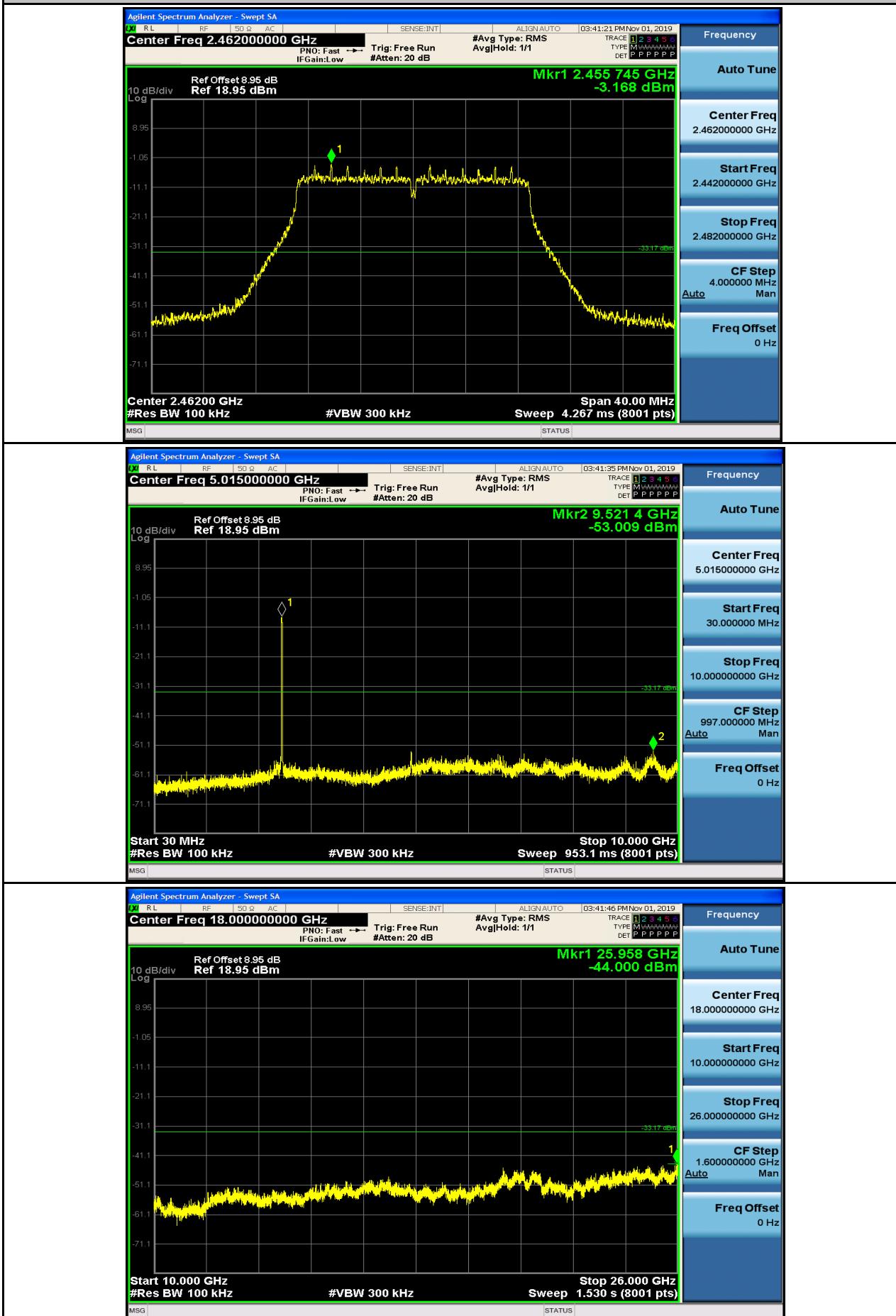
## RF Conducted Spurious Emissions\_11N20SISO\_2412



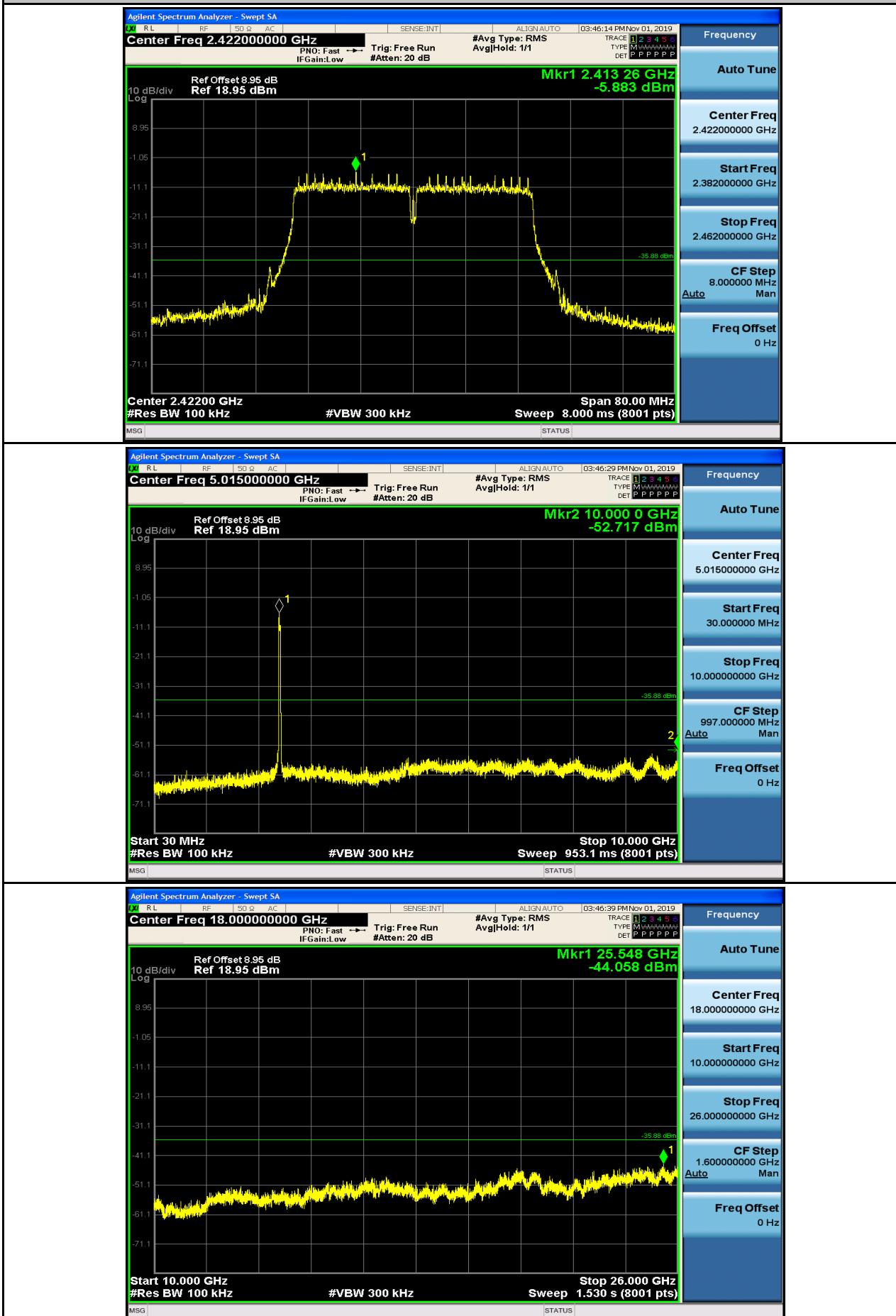
## RF Conducted Spurious Emissions\_11N20SISO\_2437



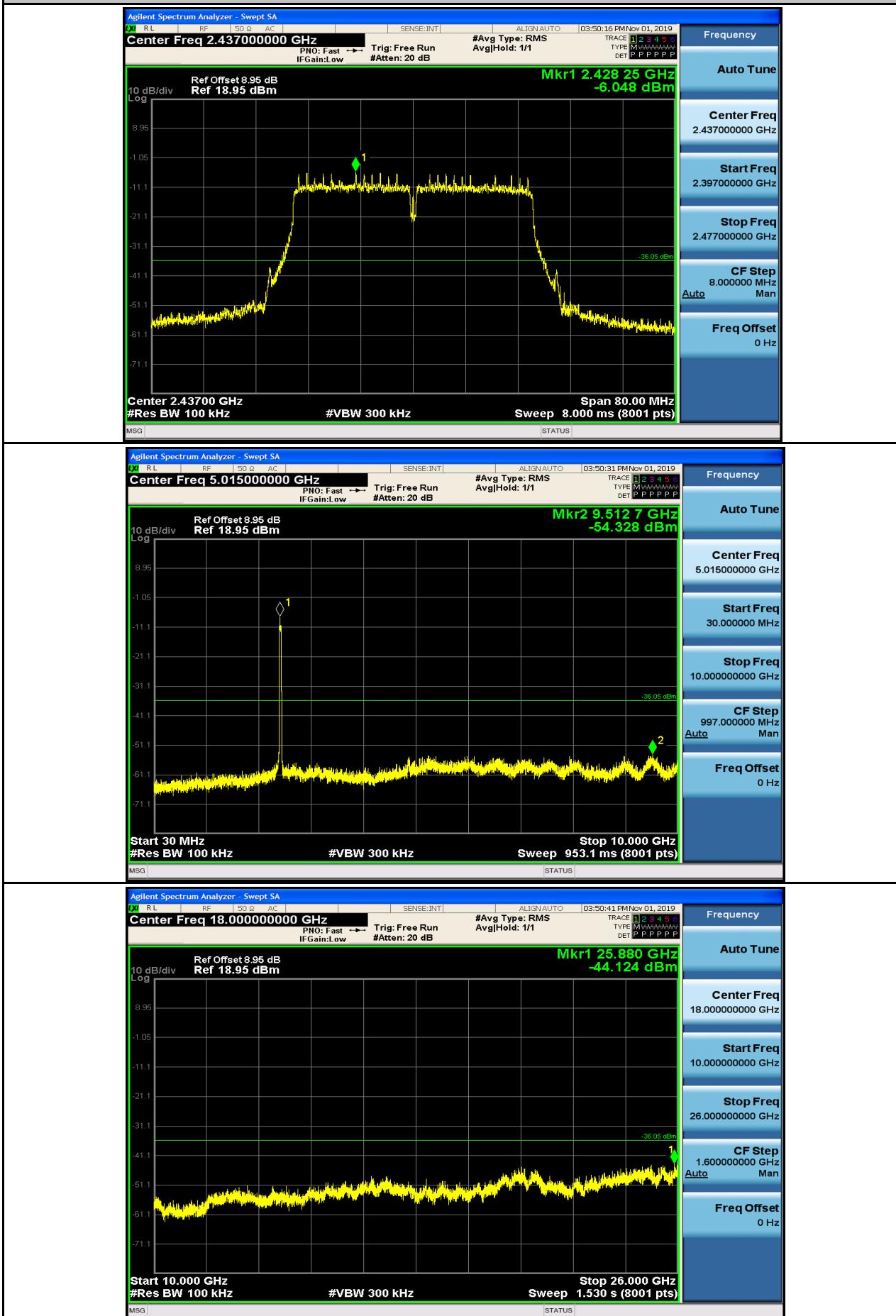
## RF Conducted Spurious Emissions\_11N20SISO\_2462



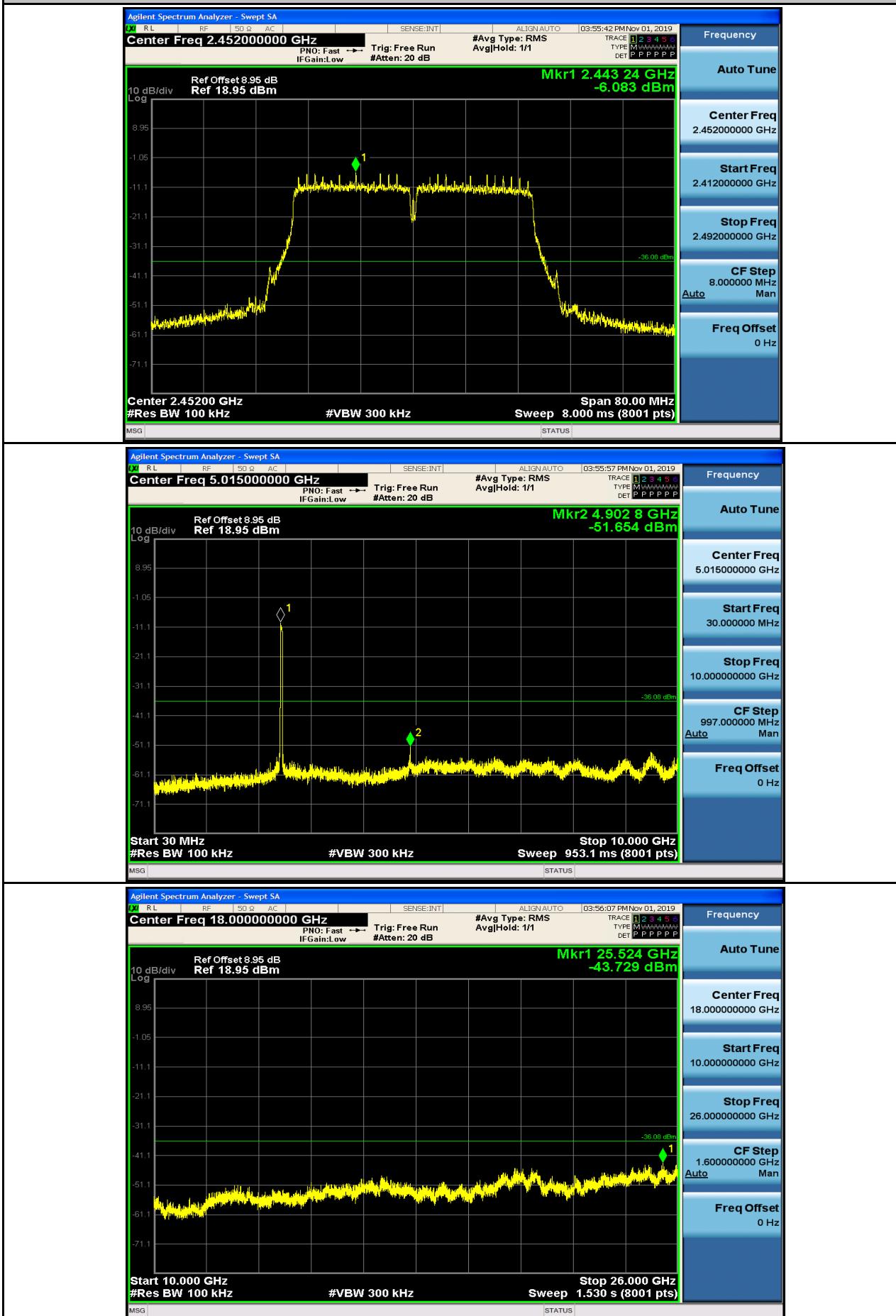
## RF Conducted Spurious Emissions\_11N40SISO\_2422



## RF Conducted Spurious Emissions\_11N40SISO\_2437



## RF Conducted Spurious Emissions\_11N40SISO\_2452

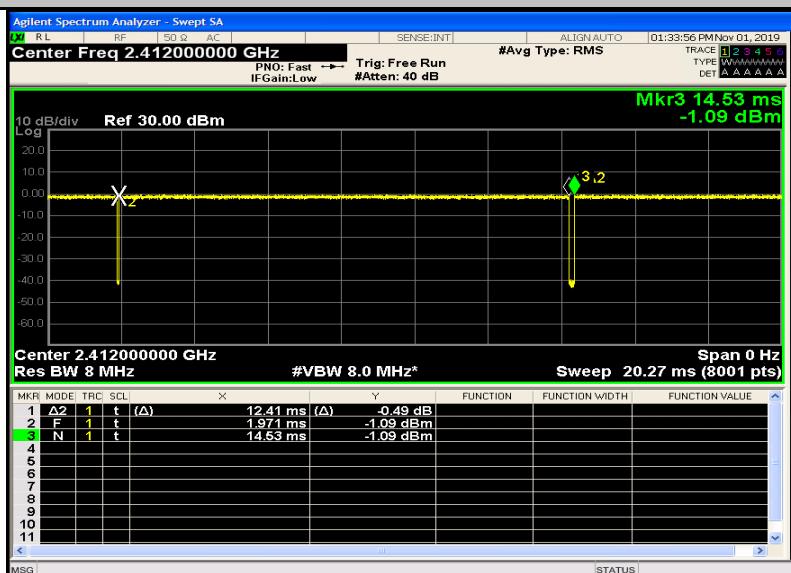




## 7.Duty Cycle

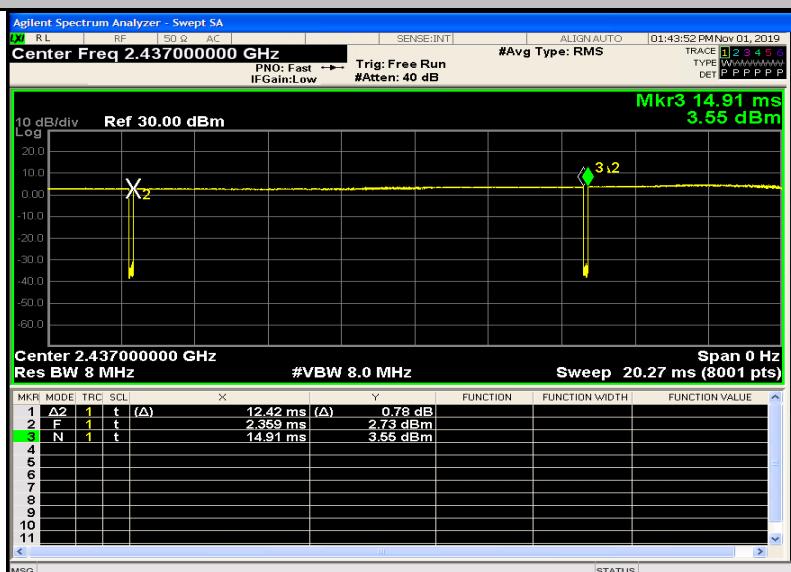
| Test Mode | Test Channel | Ant  | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11B       | 2412         | Ant1 | 98.81         | 0.05                  |
| 11B       | 2437         | Ant1 | 98.89         | 0.05                  |
| 11B       | 2462         | Ant1 | 99.45         | 0.02                  |
| 11G       | 2412         | Ant1 | 93.99         | 0.27                  |
| 11G       | 2437         | Ant1 | 92.91         | 0.32                  |
| 11G       | 2462         | Ant1 | 95.99         | 0.18                  |
| 11N20SISO | 2412         | Ant1 | 93.91         | 0.27                  |
| 11N20SISO | 2437         | Ant1 | 93.22         | 0.30                  |
| 11N20SISO | 2462         | Ant1 | 91.97         | 0.36                  |
| 11N40SISO | 2422         | Ant1 | 90.02         | 0.46                  |
| 11N40SISO | 2437         | Ant1 | 95.13         | 0.22                  |
| 11N40SISO | 2452         | Ant1 | 84.90         | 0.71                  |

## Duty Cycle\_11B\_2412\_Ant1



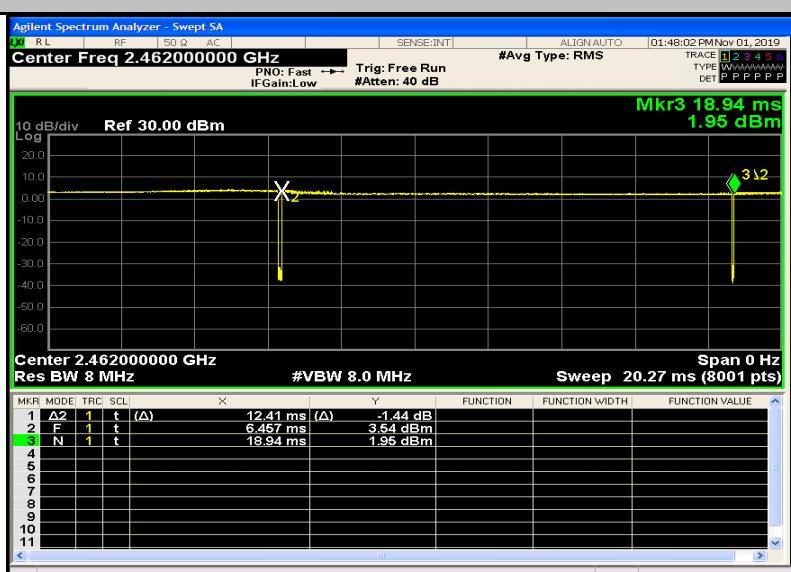
Frequency  
Auto Tune  
Center Freq  
2.412000000 GHz  
Start Freq  
2.412000000 GHz  
Stop Freq  
2.412000000 GHz  
CF Step  
8.000000 MHz Man  
Freq Offset  
0 Hz

## Duty Cycle\_11B\_2437\_Ant1



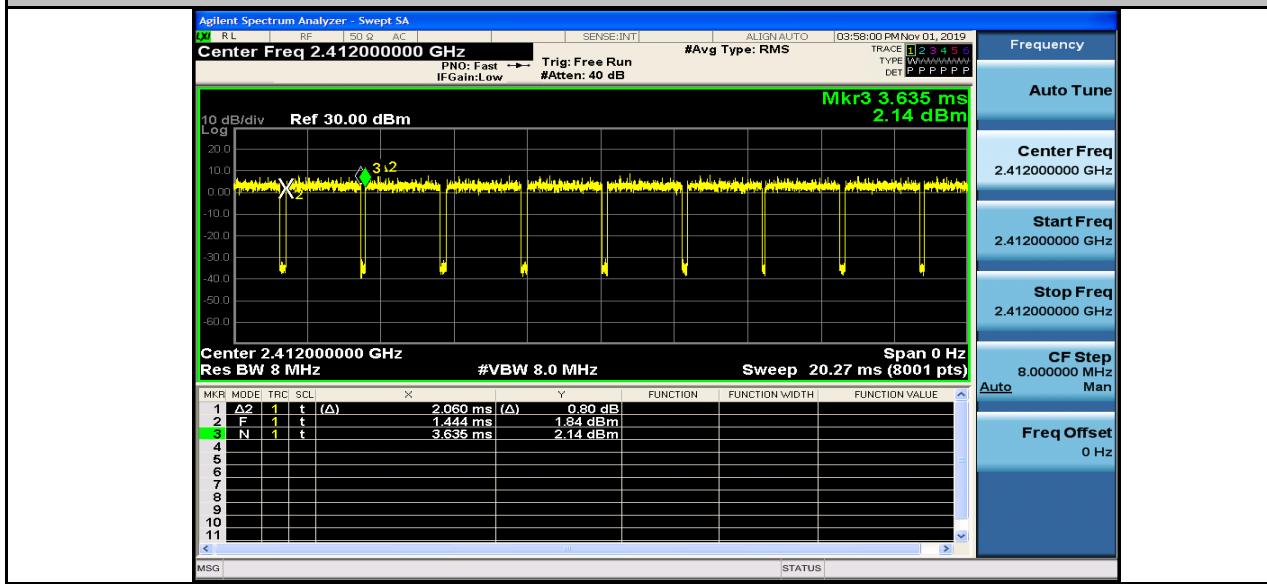
Frequency  
Auto Tune  
Center Freq  
2.437000000 GHz  
Start Freq  
2.437000000 GHz  
Stop Freq  
2.437000000 GHz  
CF Step  
8.000000 MHz Man  
Freq Offset  
0 Hz

## Duty Cycle\_11B\_2462\_Ant1

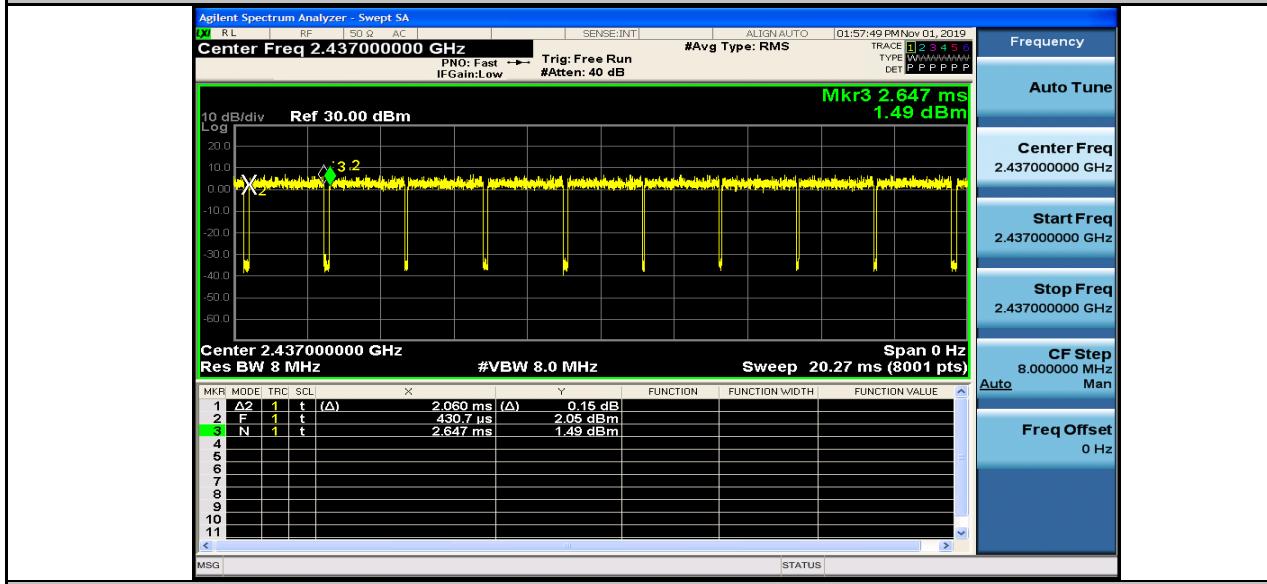


Frequency  
Auto Tune  
Center Freq  
2.462000000 GHz  
Start Freq  
2.462000000 GHz  
Stop Freq  
2.462000000 GHz  
CF Step  
8.000000 MHz Man  
Freq Offset  
0 Hz

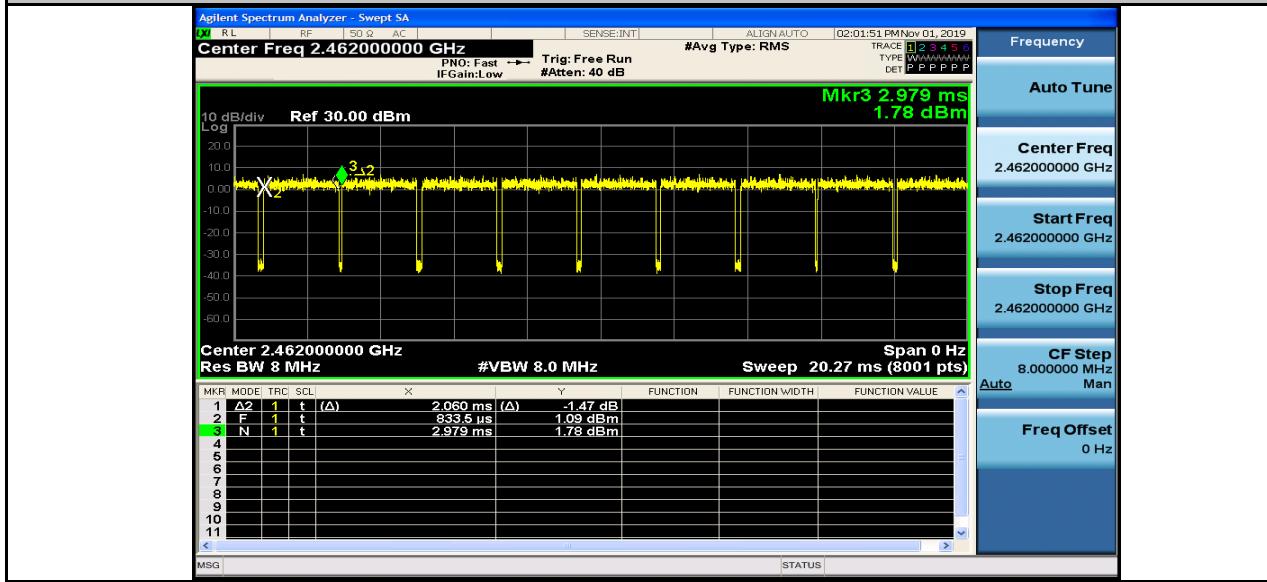
## Duty Cycle\_11G\_2412\_Ant1



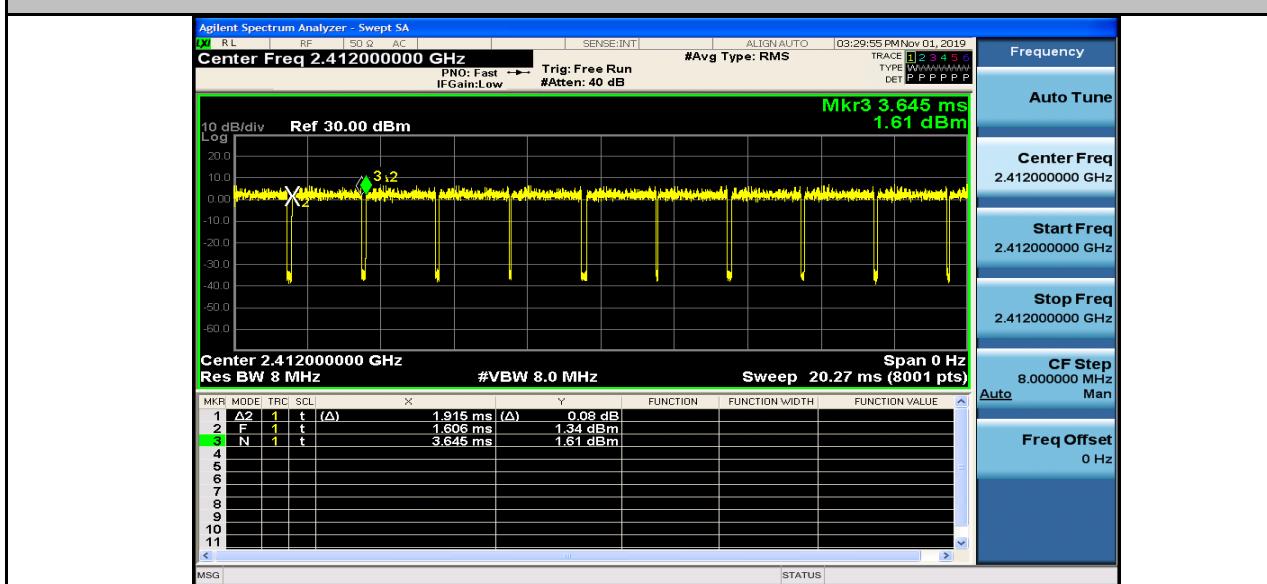
## Duty Cycle\_11G\_2437\_Ant1



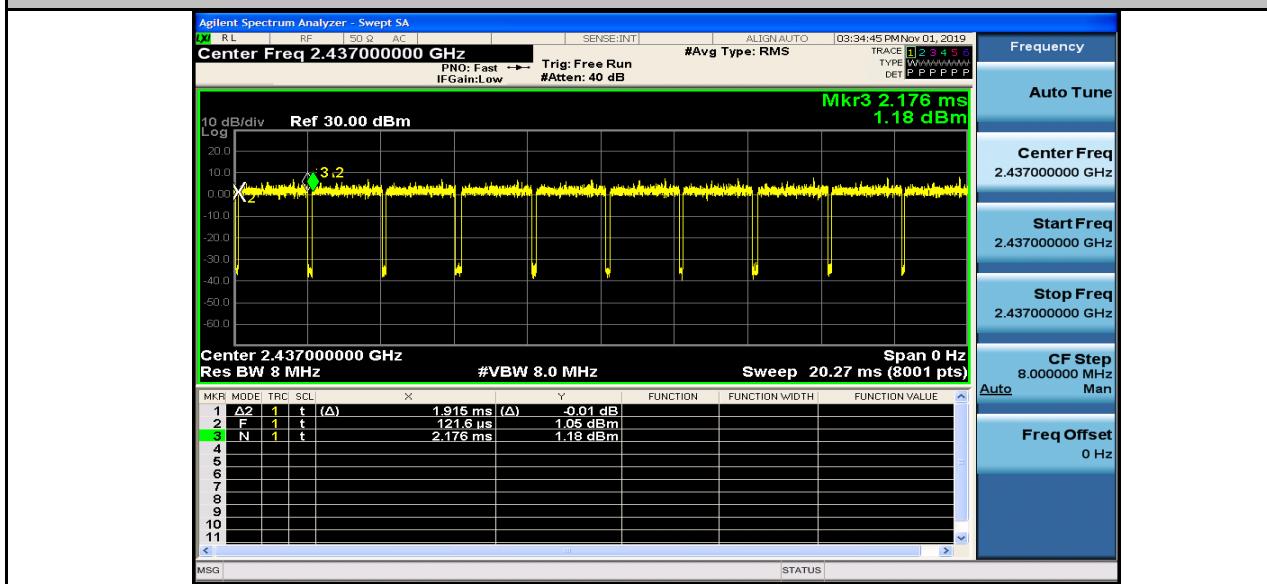
## Duty Cycle\_11G\_2462\_Ant1



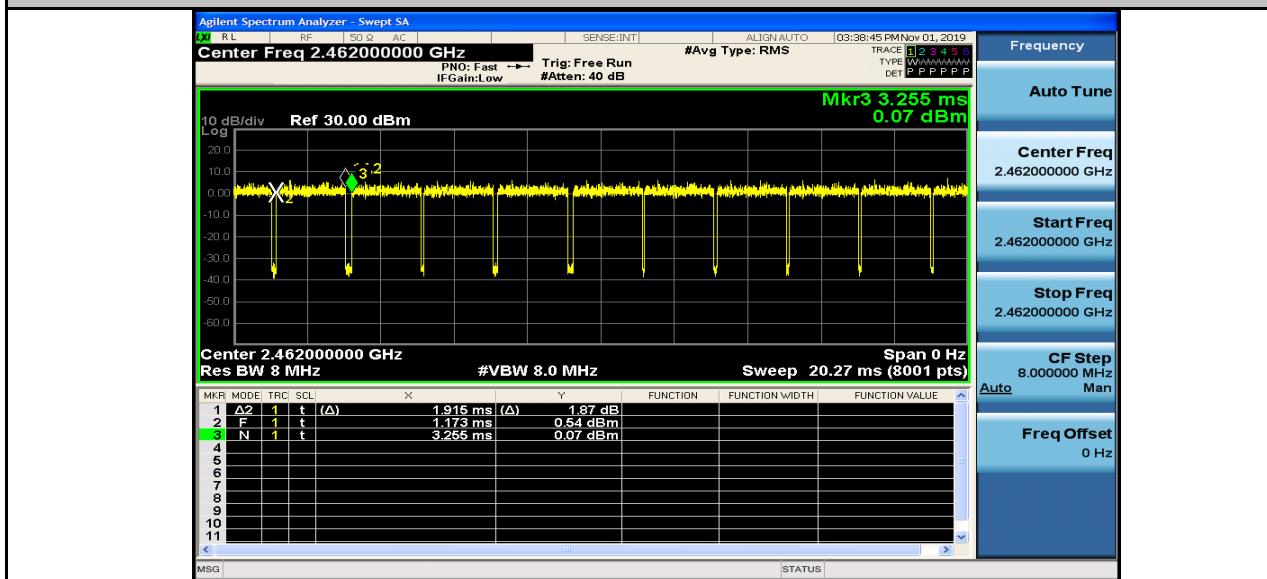
## Duty Cycle\_11N20SISO\_2412\_Ant1



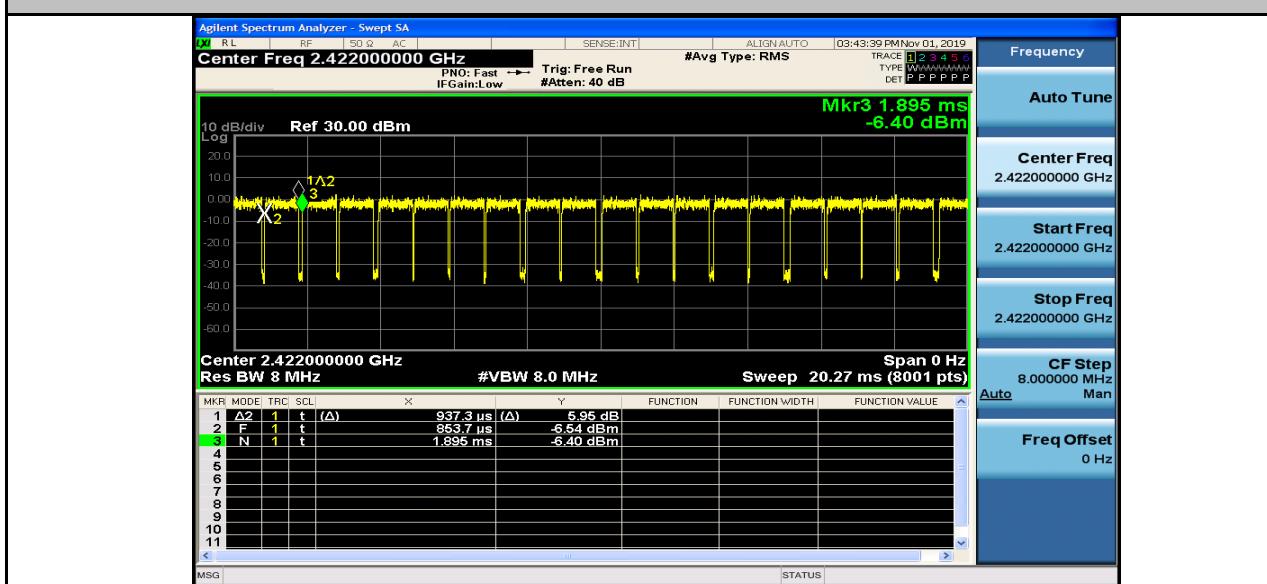
## Duty Cycle\_11N20SISO\_2437\_Ant1



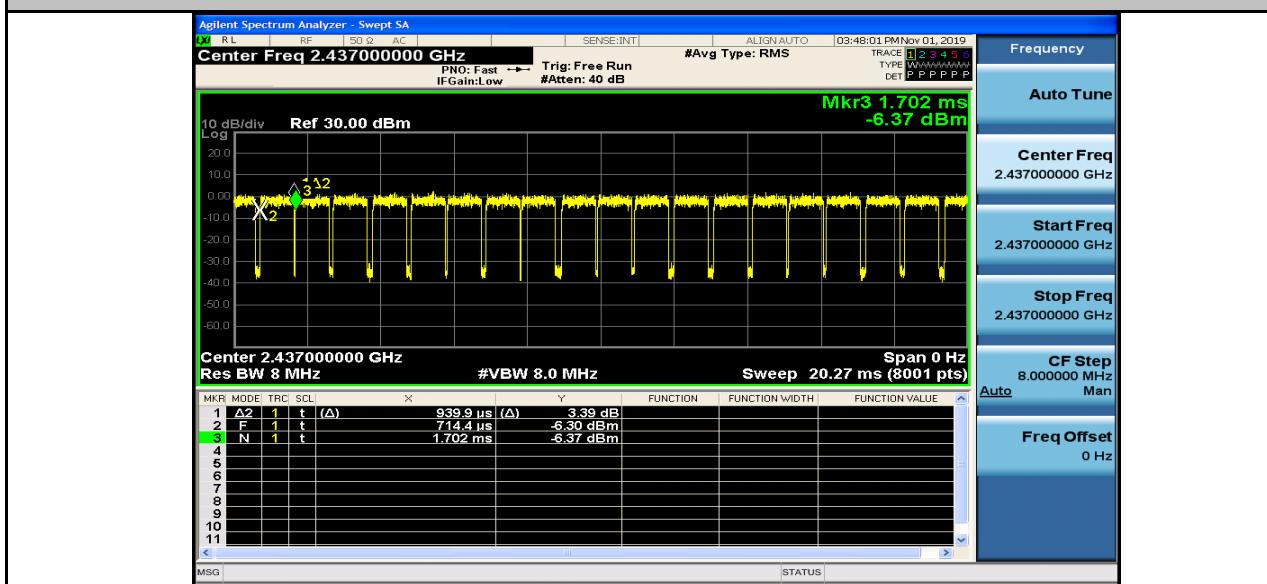
## Duty Cycle\_11N20SISO\_2462\_Ant1



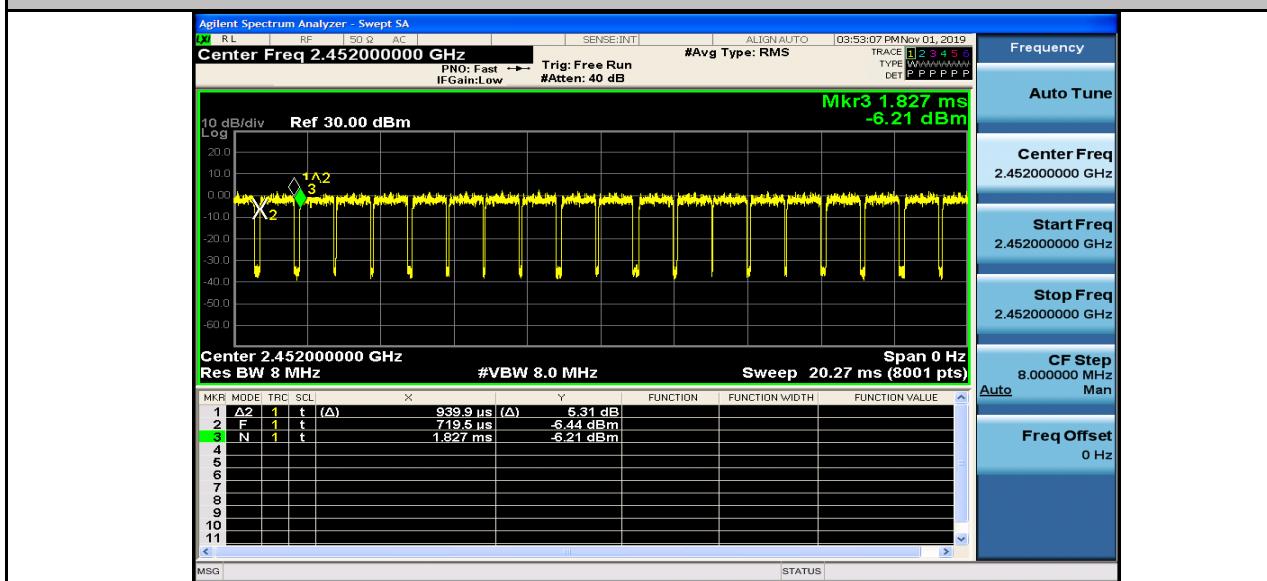
## Duty Cycle\_11N40SISO\_2422\_Ant1



## Duty Cycle\_11N40SISO\_2437\_Ant1



## Duty Cycle\_11N40SISO\_2452\_Ant1





SGS-CSTC Standards Technical Services Co., Ltd. Shanghai  
Branch