## Appendix A for SHEM210200146501

### 1.6dB Bandwidth

| Test Mode | Test Channel | Ant | EBW[MHz] | Limit | Verdict |
|---|---|---|---|---|---|
| 11B | 2412 | Ant1 | 8.54 | 0.5 | PASS |
| 11B | 2437 | Ant1 | 8.54 | 0.5 | PASS |
| 11B | 2462 | Ant1 | 8.57 | 0.5 | PASS |
| 11G | 2412 | Ant1 | 16.31 | 0.5 | PASS |
| 11G | 2437 | Ant1 | 16.31 | 0.5 | PASS |
| 11G | 2462 | Ant1 | 15.44 | 0.5 | PASS |
| 11N20SISO | 2412 | Ant1 | 16.92 | 0.5 | PASS |
| 11N20SISO | 2437 | Ant1 | 17.32 | 0.5 | PASS |
| 11N20SISO | 2462 | Ant1 | 16.30 | 0.5 | PASS |

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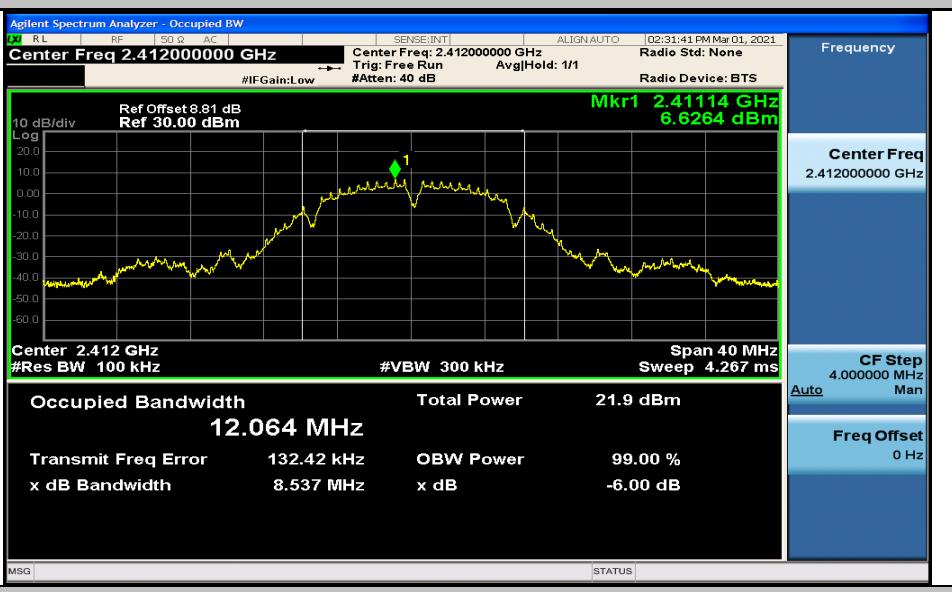
6dB Bandwidth_11B_2412_Ant1

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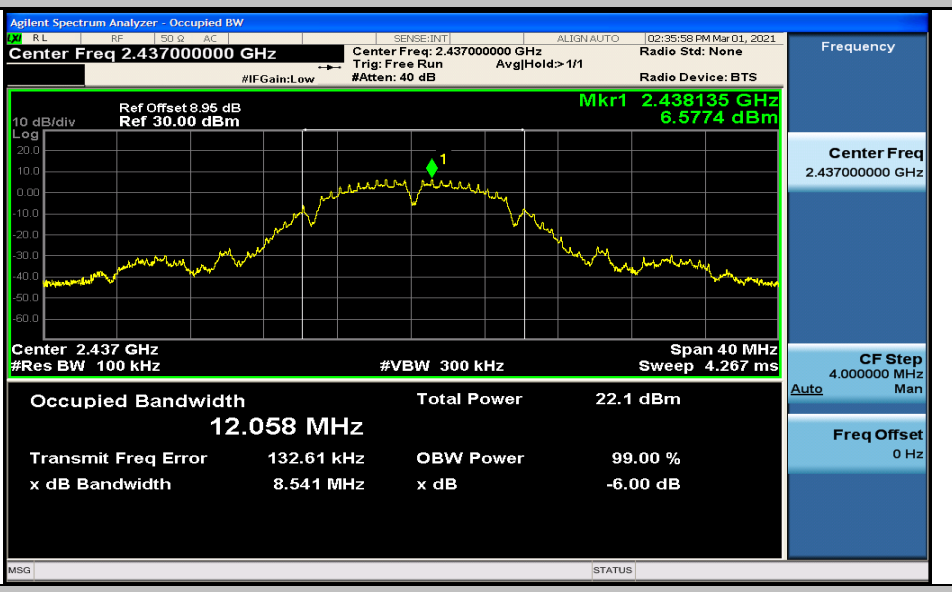


6dB Bandwidth_11B_2462_Ant1

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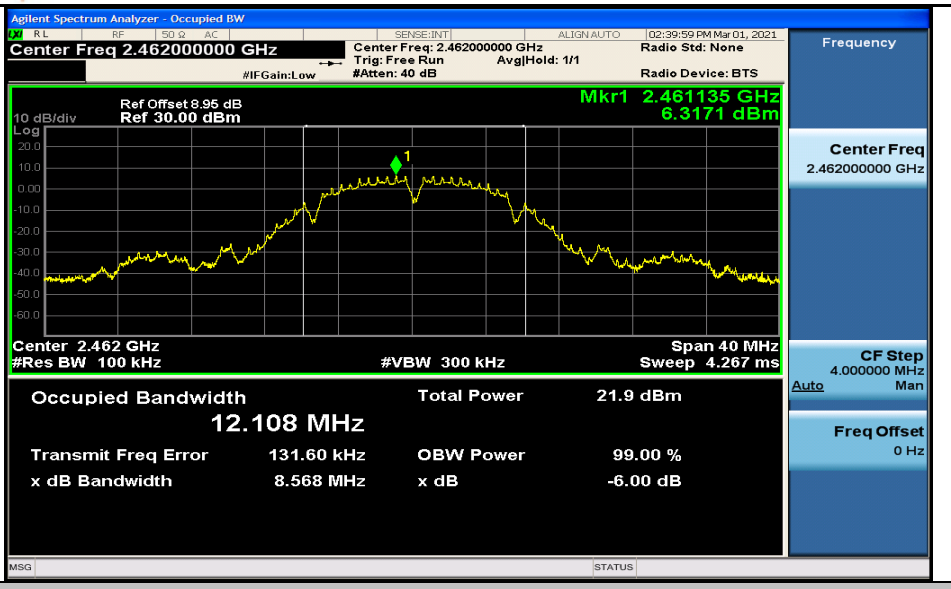


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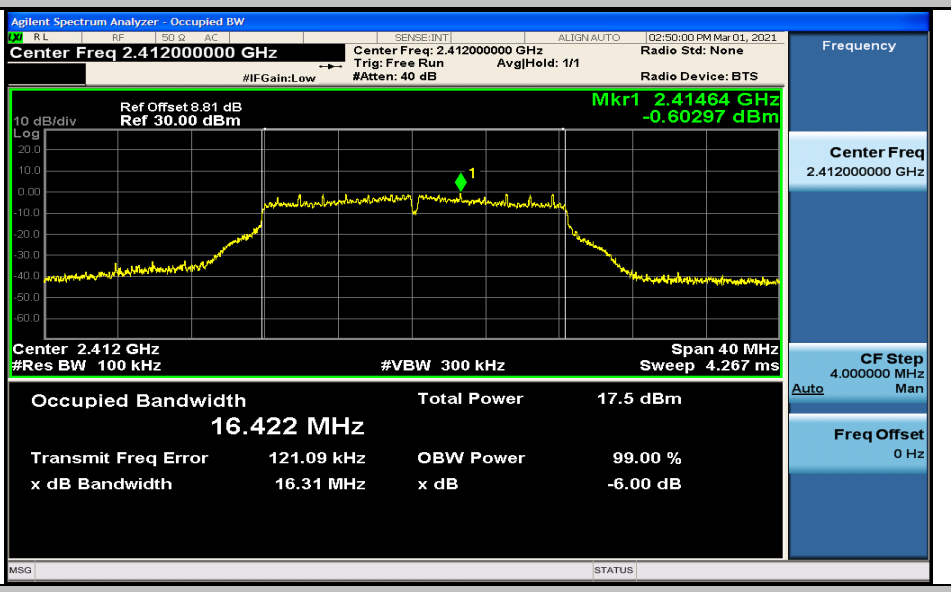


6dB Bandwidth_11G_2437_Ant1

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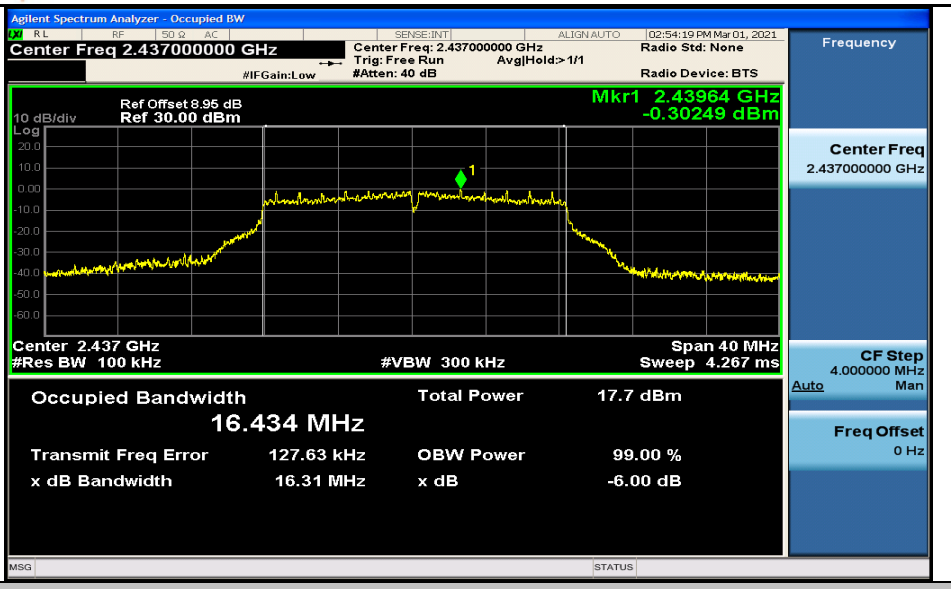


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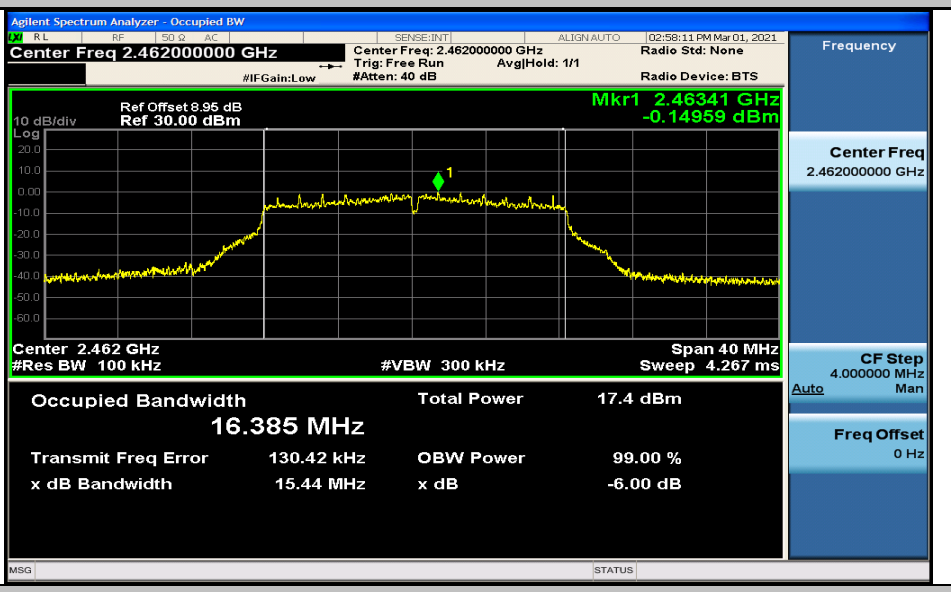


6dB Bandwidth_11N20SISO_2412_Ant1

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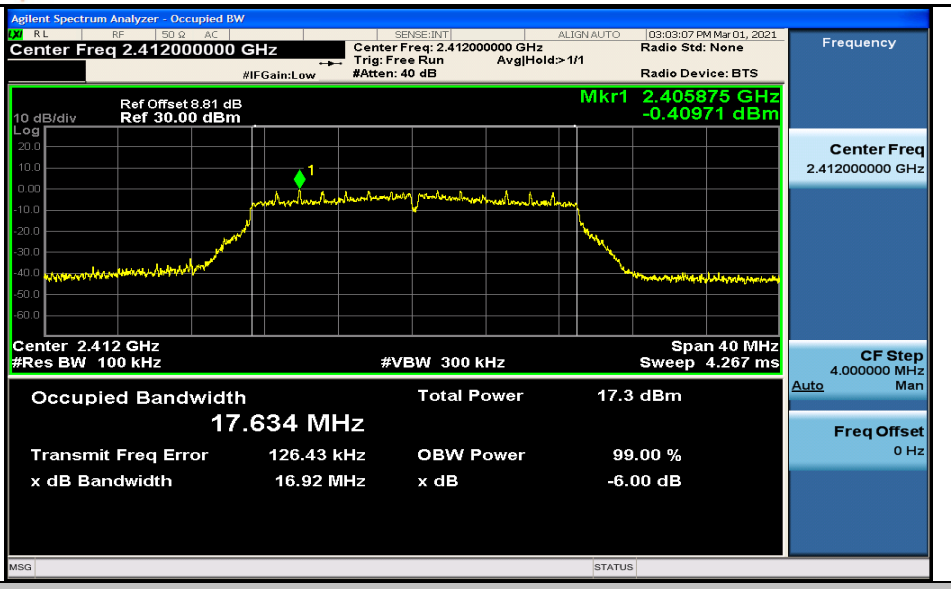
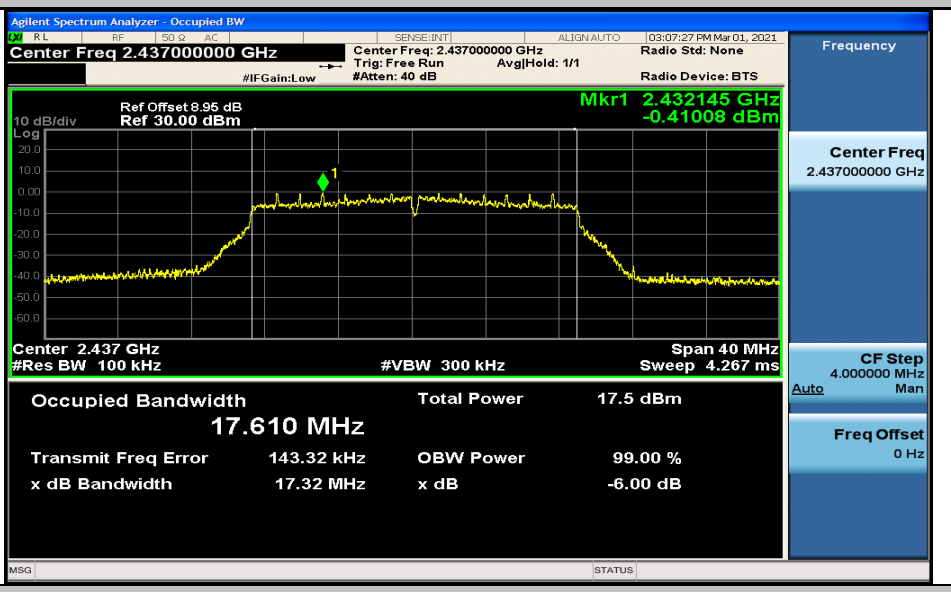



6dB Bandwidth_11N20SISO_2437_Ant1




6dB Bandwidth_11N20SISO_2462_Ant1

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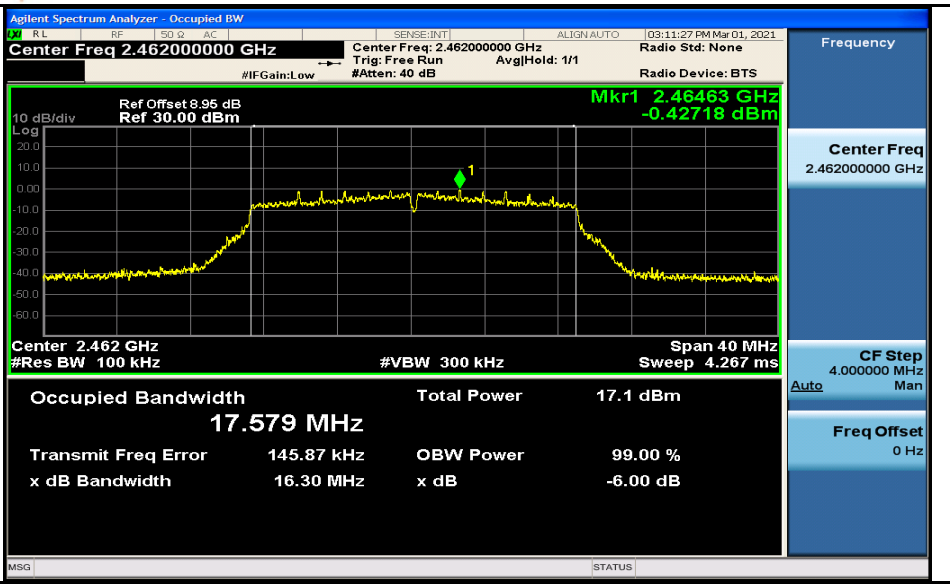


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## 2.Occupied Bandwidth

| Test Mode | Test Channel | Ant | OBW[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|
| 11B | 2412 | Ant1 | 12.13 | --- | PASS |
| 11B | 2437 | Ant1 | 12.13 | --- | PASS |
| 11B | 2462 | Ant1 | 12.17 | --- | PASS |
| 11G | 2412 | Ant1 | 16.83 | --- | PASS |
| 11G | 2437 | Ant1 | 16.84 | --- | PASS |
| 11G | 2462 | Ant1 | 16.71 | --- | PASS |
| 11N20SISO | 2412 | Ant1 | 17.92 | --- | PASS |
| 11N20SISO | 2437 | Ant1 | 17.92 | --- | PASS |
| 11N20SISO | 2462 | Ant1 | 17.79 | --- | PASS |

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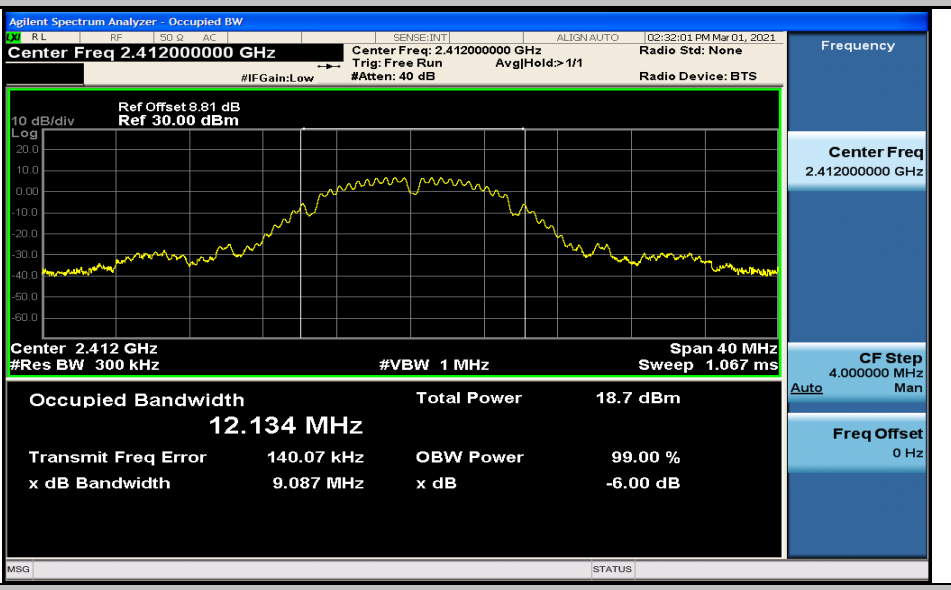
Occupied Bandwidth_11B_2412

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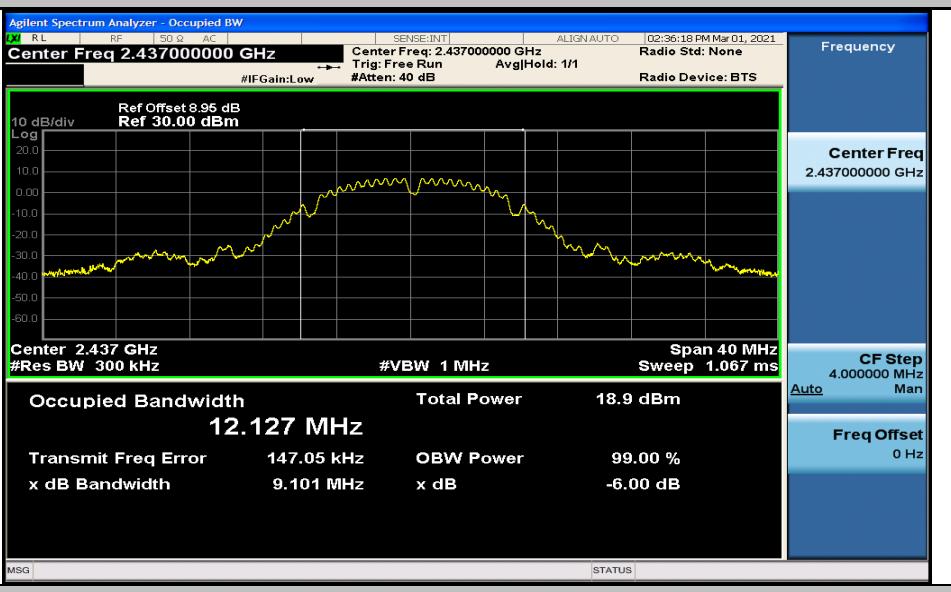


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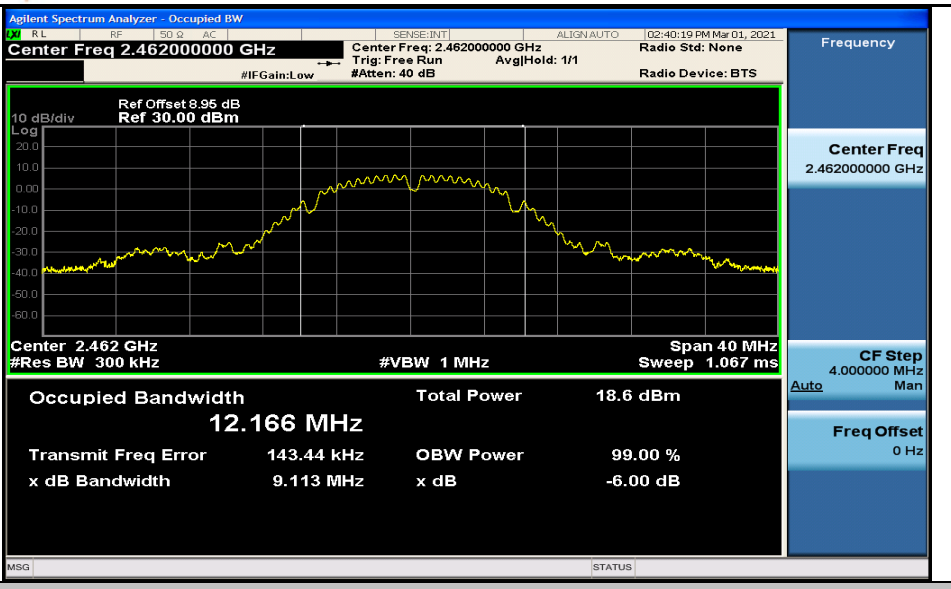


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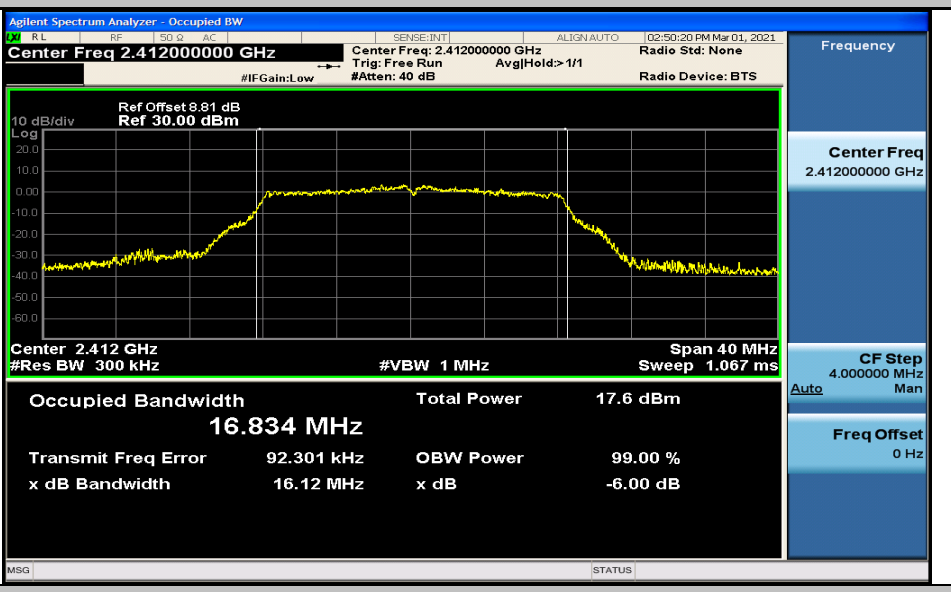


Occupied Bandwidth_11G_2437

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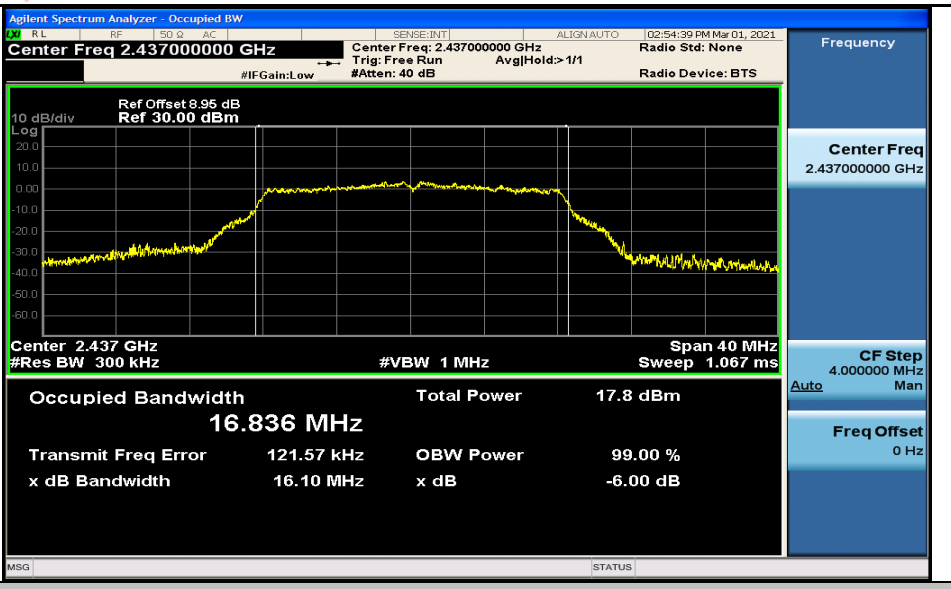


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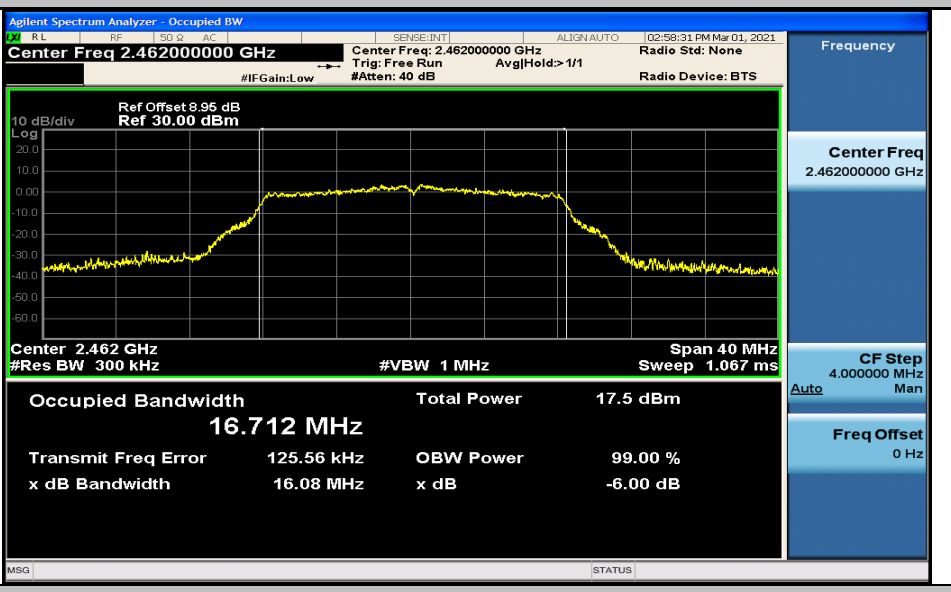


Occupied Bandwidth_11N20SISO_2412

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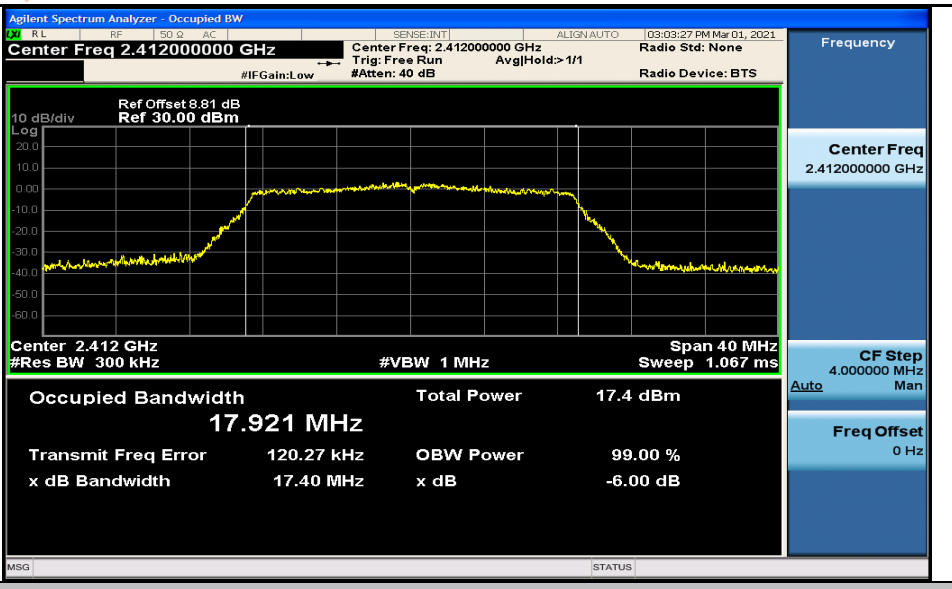


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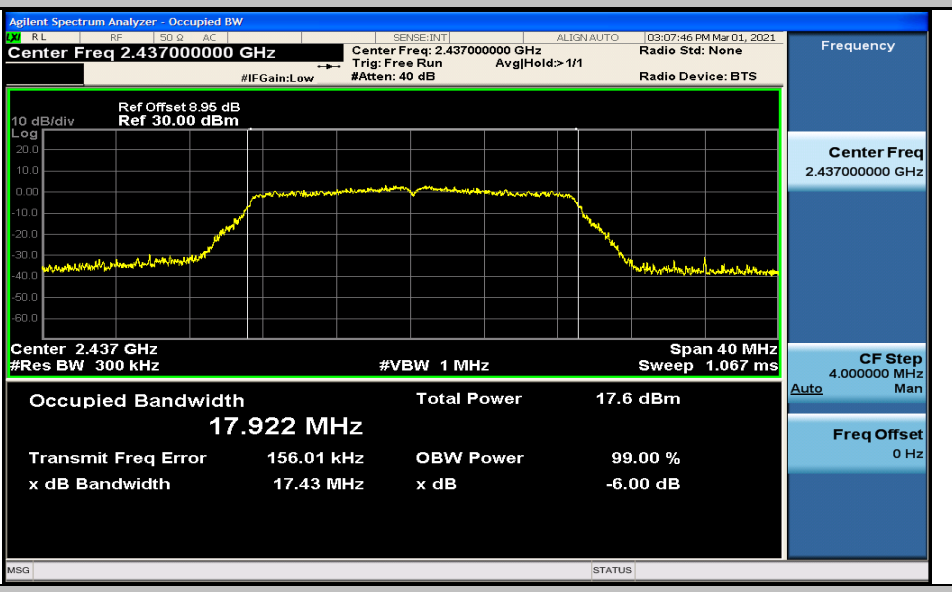


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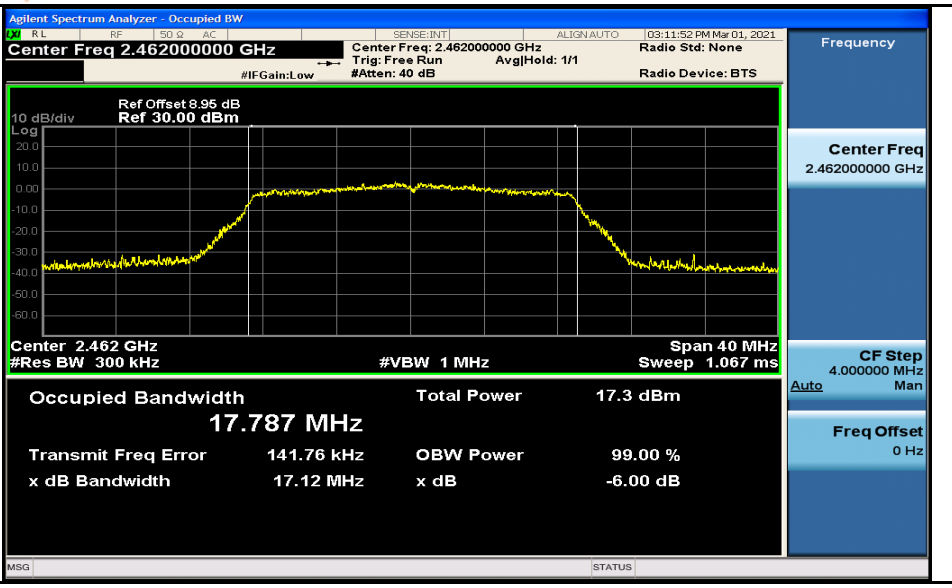


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### 3.Maximum conducted (average) output power

| Test Mode | Test Channel | Ant | Level [dBm] | 10log(1/x) Factor[dB] | Power [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | 2412 | Ant1 | 14.89 | 0.05 | 14.95 | 30 | PASS |
| 11B | 2437 | Ant1 | 15.07 | 0.05 | 15.12 | 30 | PASS |
| 11B | 2462 | Ant1 | 14.84 | 0.05 | 14.89 | 30 | PASS |
| 11G | 2412 | Ant1 | 10.88 | 0.32 | 11.20 | 30 | PASS |
| 11G | 2437 | Ant1 | 11.07 | 0.32 | 11.39 | 30 | PASS |
| 11G | 2462 | Ant1 | 10.82 | 0.33 | 11.14 | 30 | PASS |
| 11N20SISO | 2412 | Ant1 | 10.49 | 0.35 | 10.84 | 30 | PASS |
| 11N20SISO | 2437 | Ant1 | 10.71 | 0.34 | 11.05 | 30 | PASS |
| 11N20SISO | 2462 | Ant1 | 10.35 | 0.34 | 10.69 | 30 | PASS |

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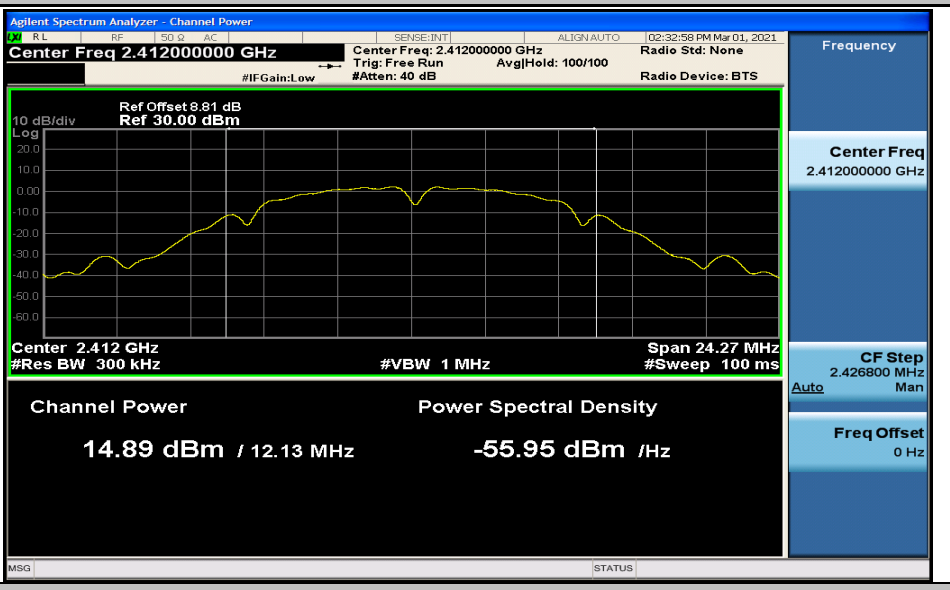
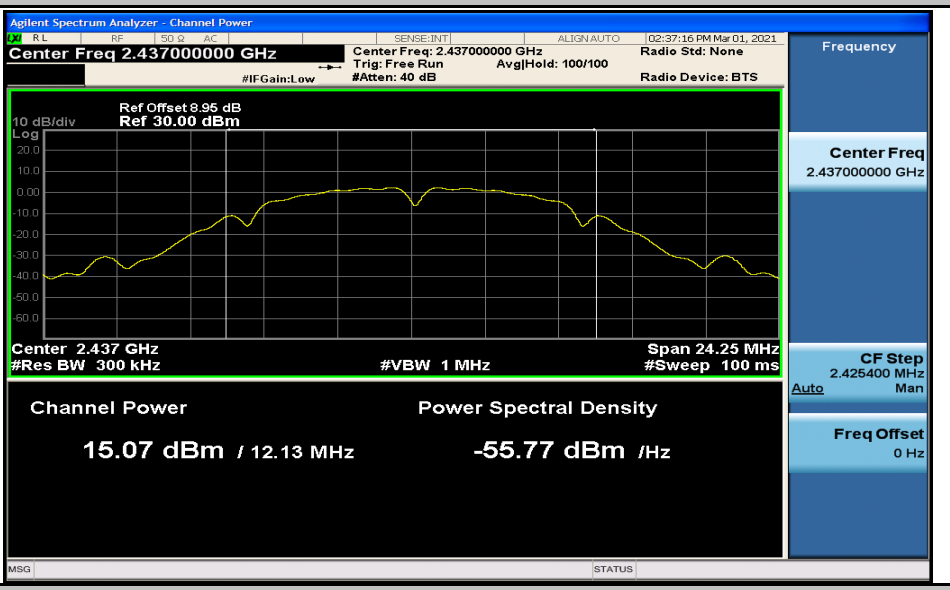
Maximum conducted (average) output power_11B_2412_Ant1




Maximum conducted (average) output power_11B_2437_Ant1




Maximum conducted (average) output power_11B_2462_Ant1

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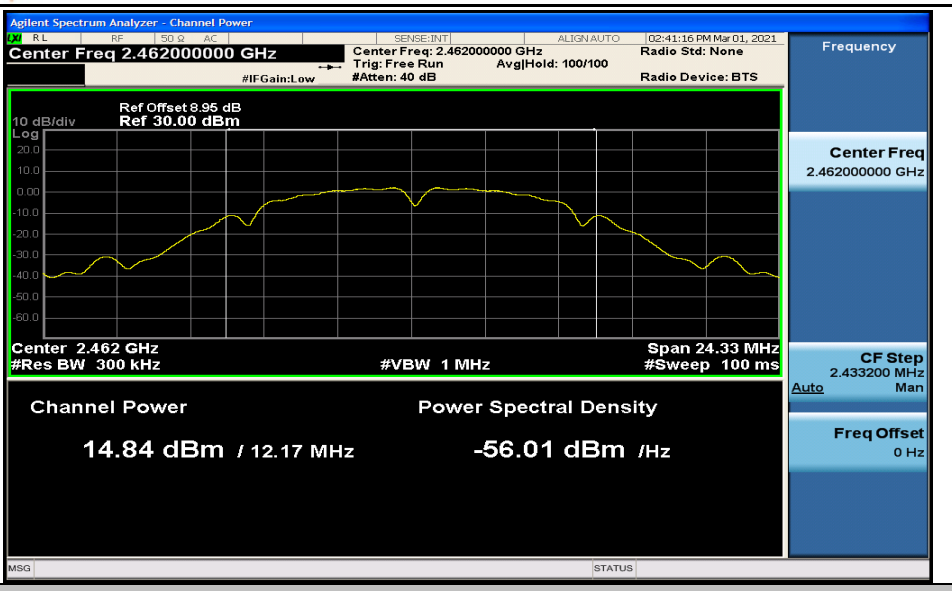
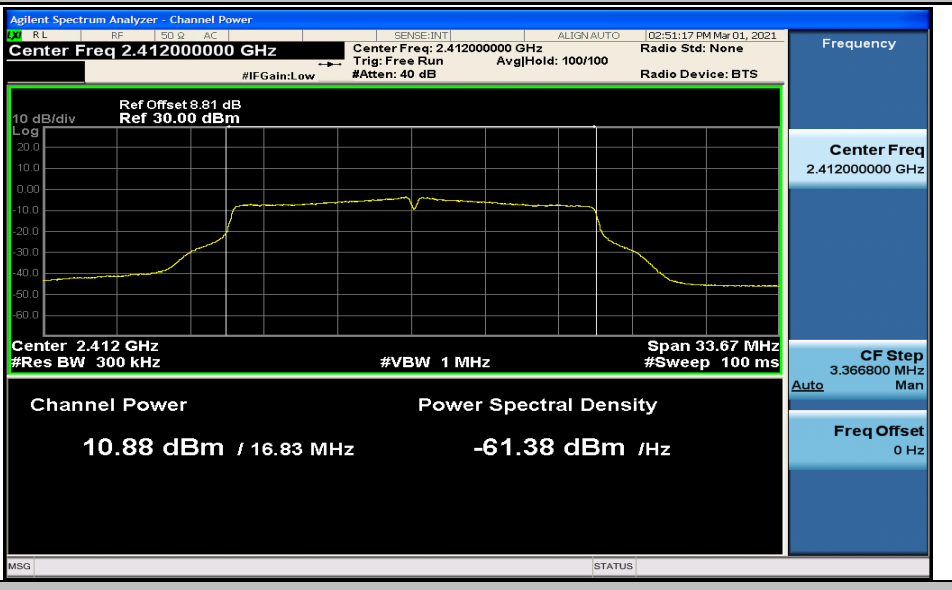



Maximum conducted (average) output power_11G_2412_Ant1




Maximum conducted (average) output power_11G_2437_Ant1

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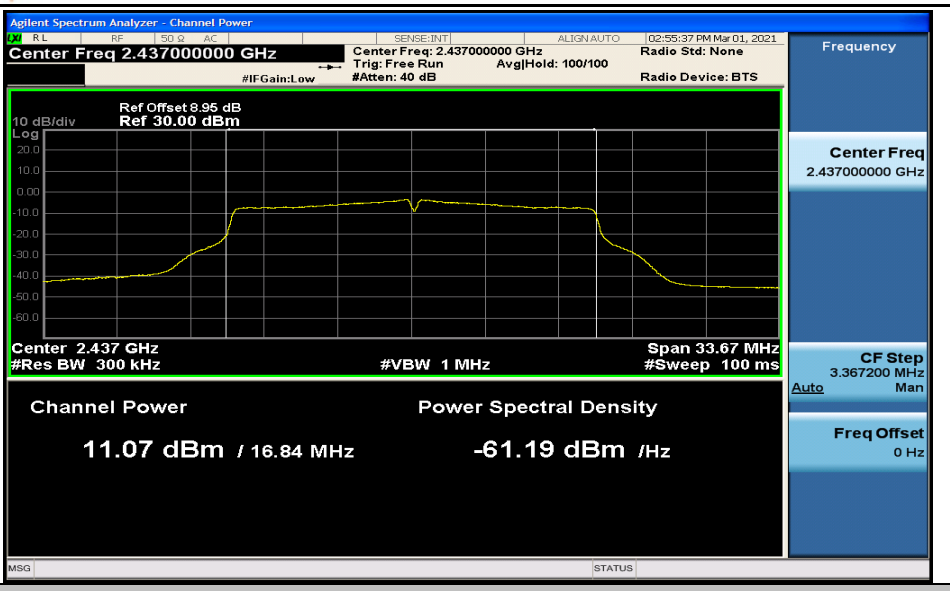
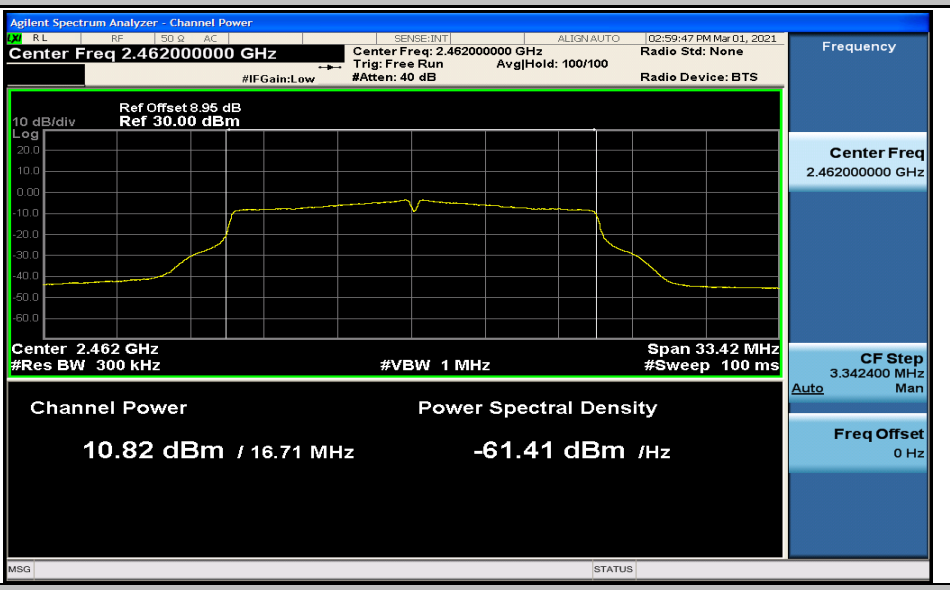



Maximum conducted (average) output power_11G_2462_Ant1




Maximum conducted (average) output power_11N20SISO_2412_Ant1

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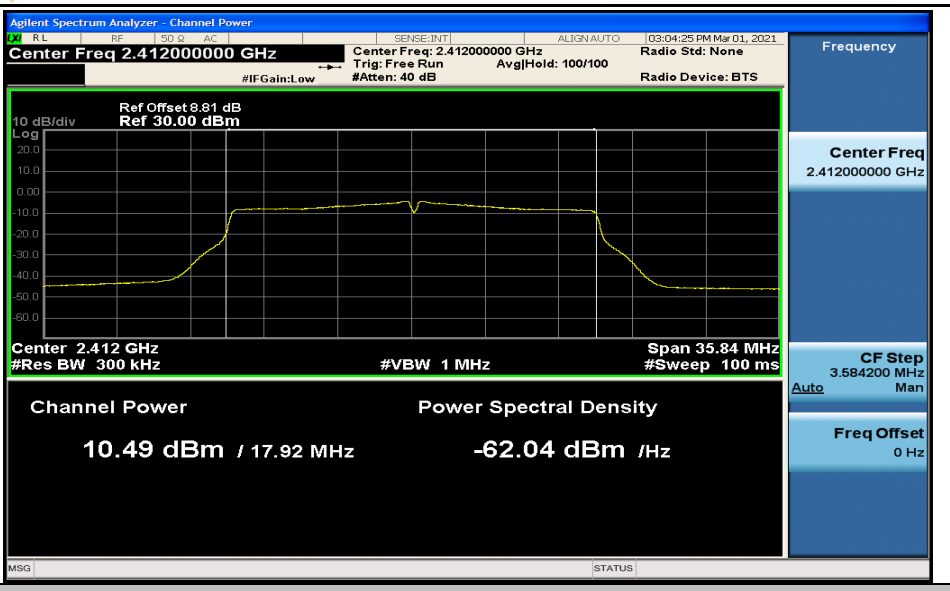
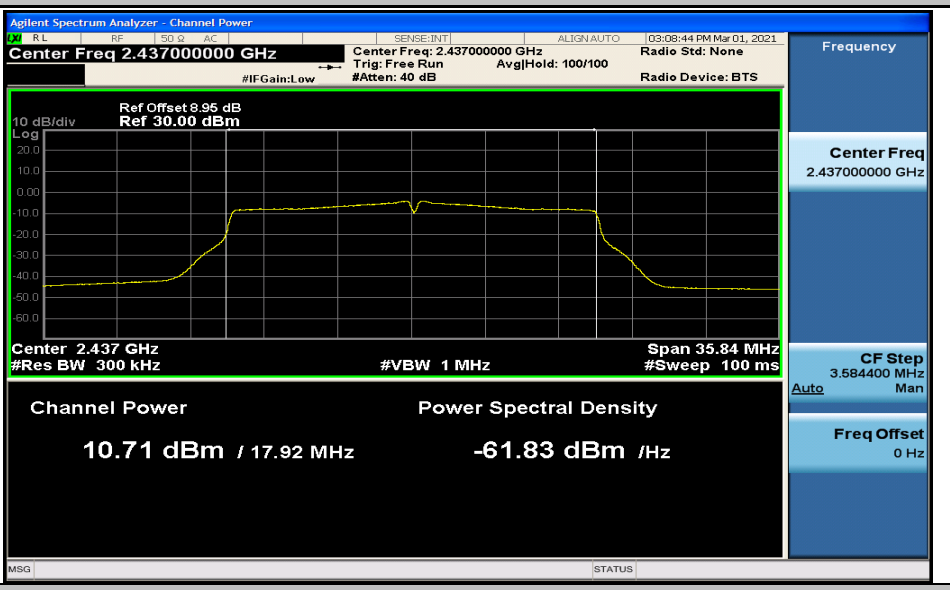



Maximum conducted (average) output power_11N20SISO_2437_Ant1




Maximum conducted (average) output power_11N20SISO_2462_Ant1

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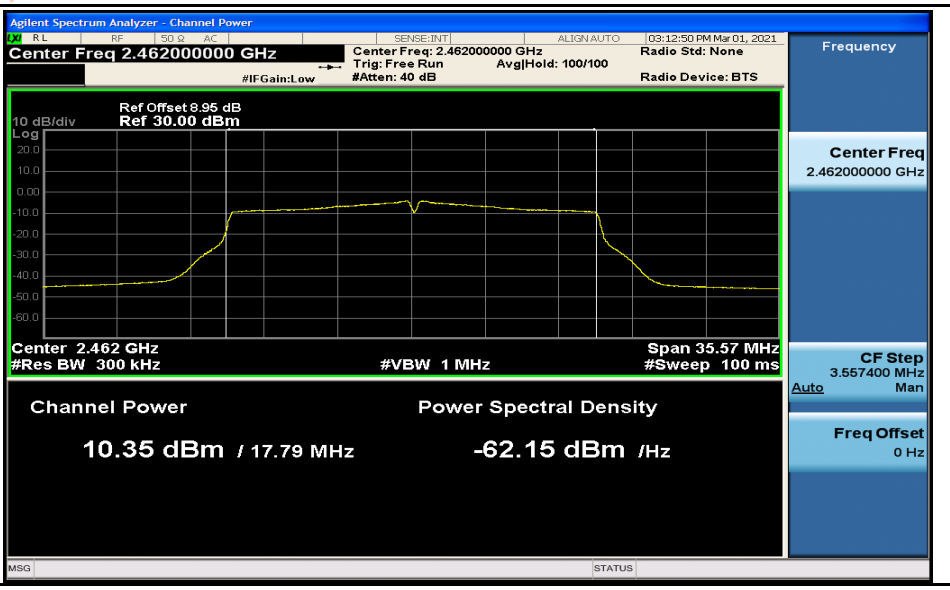


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**4.Maximum(average) power spectral density**

| Test Mode | Test Channel | Ant | Level [dBm/3kHz] | 10log(1/x) Factor[dB] | PSD[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | 2412 | Ant1 | -16.96 | 0.05 | -16.91 | 8.00 | PASS |
| 11B | 2437 | Ant1 | -16.77 | 0.05 | -16.72 | 8.00 | PASS |
| 11B | 2462 | Ant1 | -16.84 | 0.05 | -16.79 | 8.00 | PASS |
| 11G | 2412 | Ant1 | -20.47 | 0.32 | -20.15 | 8.00 | PASS |
| 11G | 2437 | Ant1 | -20.43 | 0.32 | -20.11 | 8.00 | PASS |
| 11G | 2462 | Ant1 | -20.41 | 0.33 | -20.08 | 8.00 | PASS |
| 11N20SISO | 2412 | Ant1 | -22.02 | 0.35 | -21.67 | 8.00 | PASS |
| 11N20SISO | 2437 | Ant1 | -22.24 | 0.34 | -21.90 | 8.00 | PASS |
| 11N20SISO | 2462 | Ant1 | -21.99 | 0.34 | -21.65 | 8.00 | PASS |

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Maximum(average) power spectral density_11B_2412_Ant1

Maximum(average) power spectral density_11B_2437_Ant1

Maximum(average) power spectral density_11B_2462_Ant1

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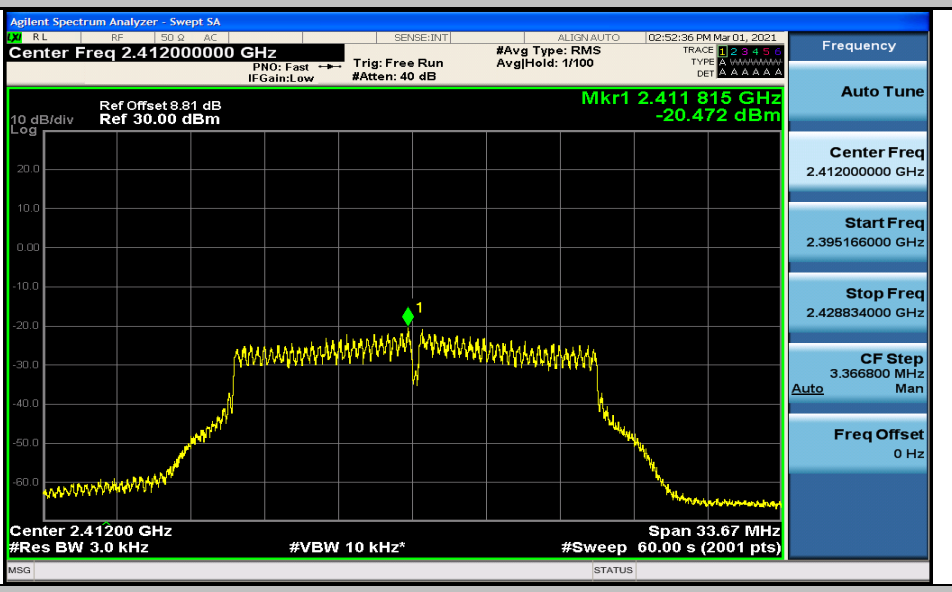
Maximum(average) power spectral density_11G_2412_Ant1




Maximum(average) power spectral density_11G_2437_Ant1

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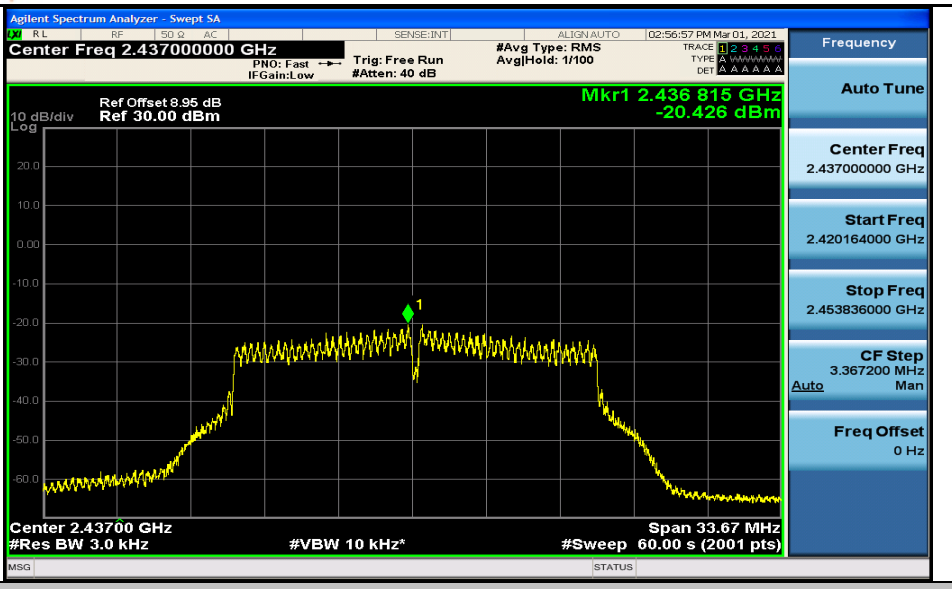


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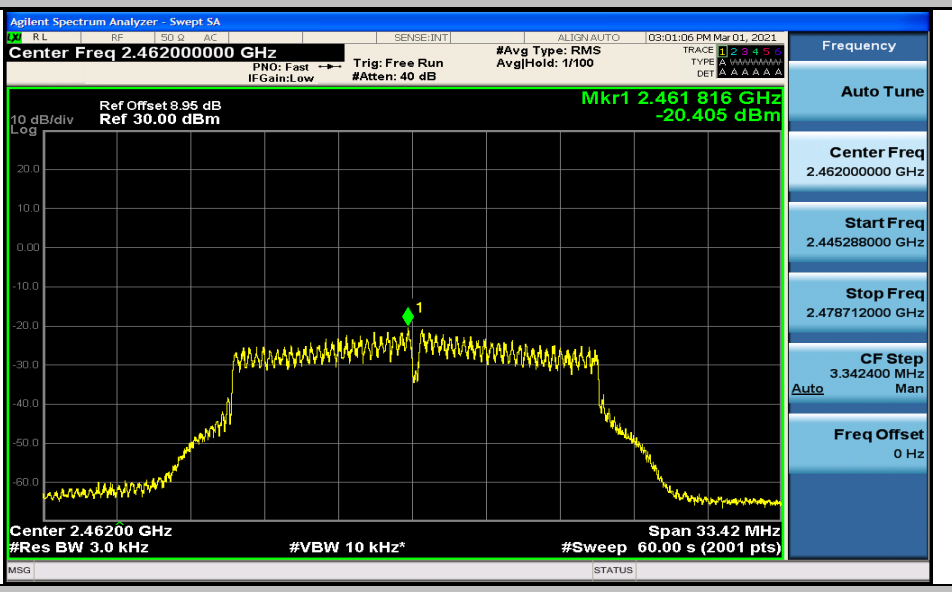


Maximum(average) power spectral density_11N20SISO_2412_Ant1

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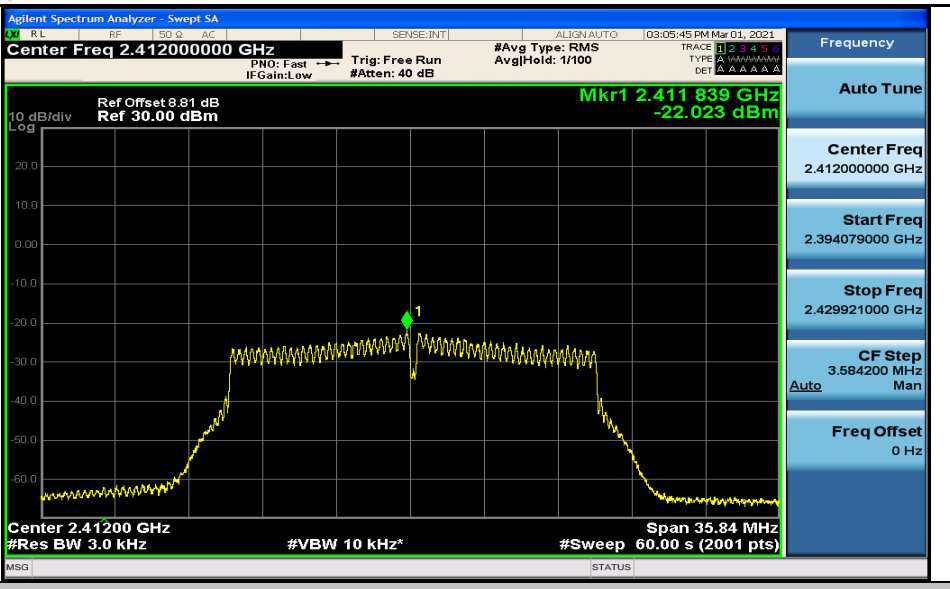


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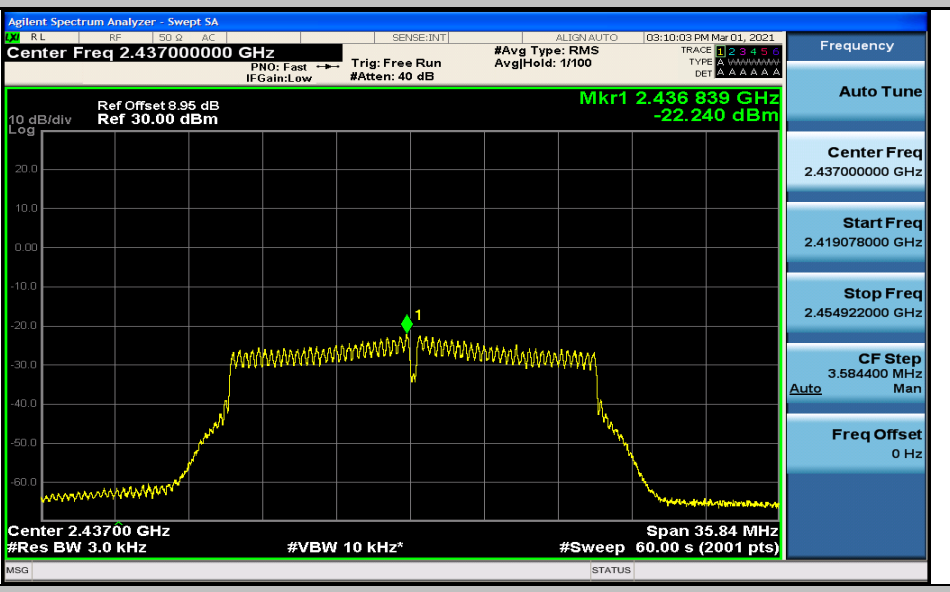


Maximum(average) power spectral density_11N20SISO_2462_Ant1

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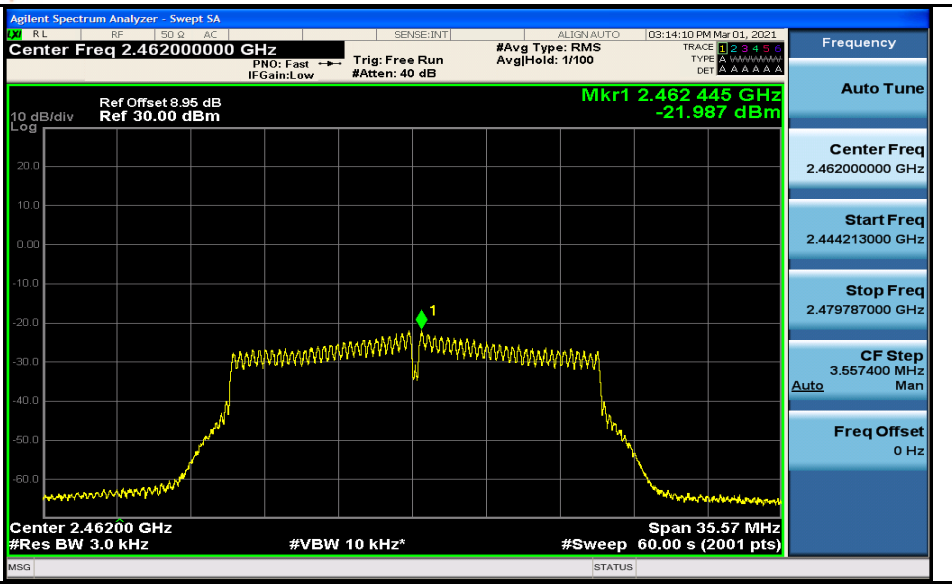


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## 5.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Ant | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|
| 11B | 2412 | Ant1 | 6.56 | -29.99 | -23.44 | PASS |
| 11B | 2462 | Ant1 | 6.50 | -45.86 | -23.50 | PASS |
| 11G | 2412 | Ant1 | -0.29 | -31.83 | -30.29 | PASS |
| 11G | 2462 | Ant1 | -0.06 | -47.88 | -30.06 | PASS |
| 11N20SISO | 2412 | Ant1 | -0.08 | -35.84 | -30.08 | PASS |
| 11N20SISO | 2462 | Ant1 | -0.87 | -49.33 | -30.87 | PASS |

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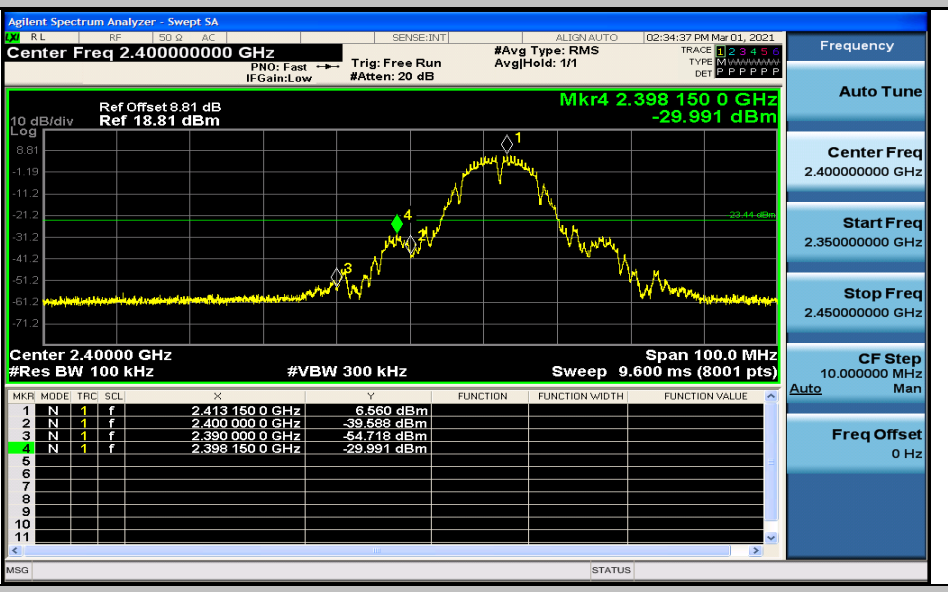
Band-edge for RF Conducted Emissions_11B_2412_Ant1




Band-edge for RF Conducted Emissions_11B_2462_Ant1

Band-edge for RF Conducted Emissions_11G_2412_Ant1

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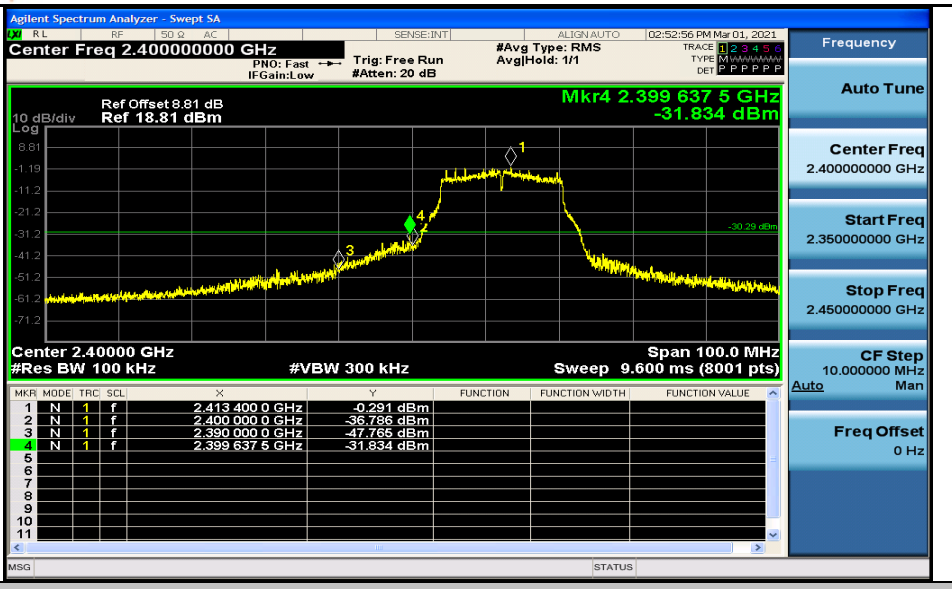


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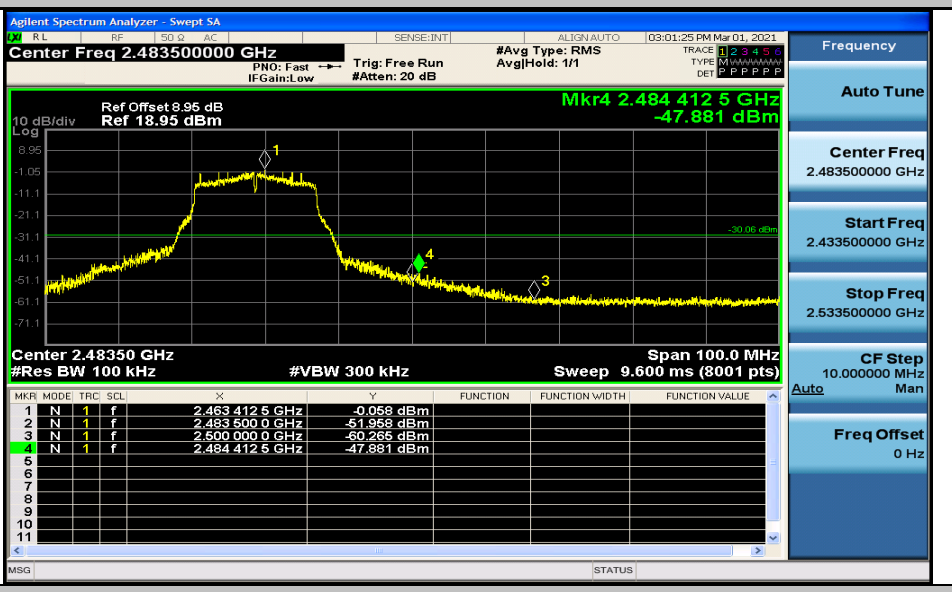


Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1

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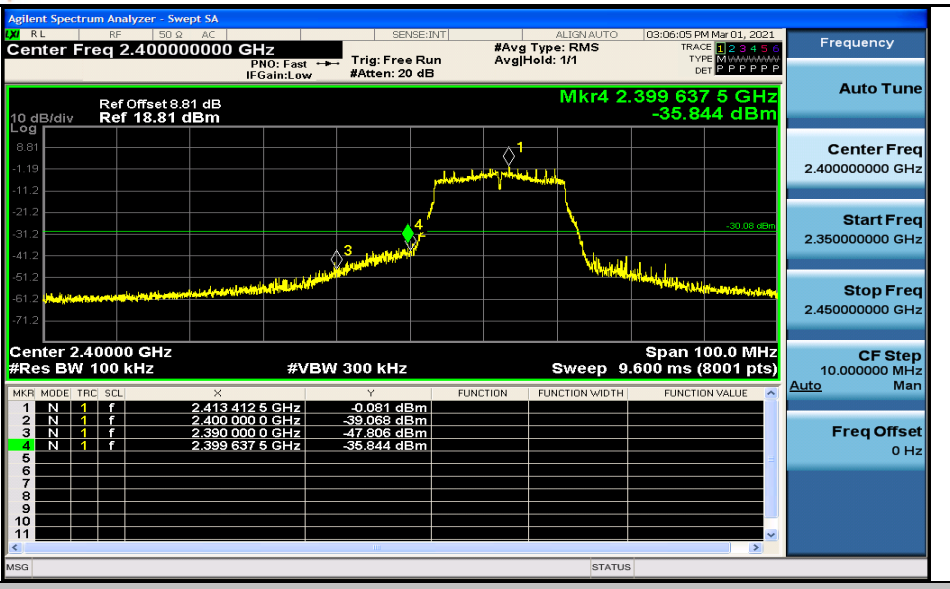
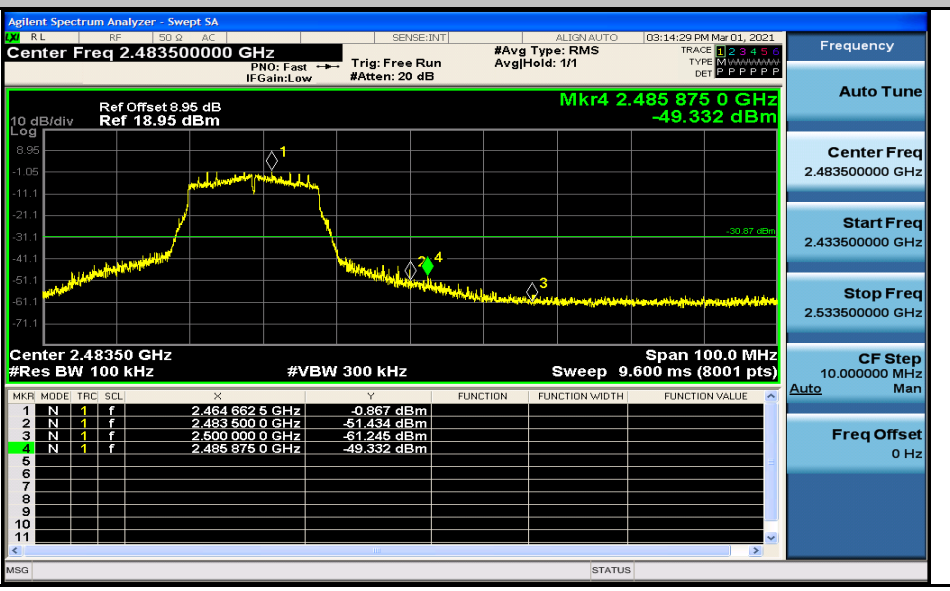



Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1

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## 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 | 6.58 | -50.55 | <-23.43 | PASS |
| 11B | 2412 | Ant1 | 10000 | 26000 | 100 | 300 | 6.575 | -44.425 | <-23.425 | PASS |
| 11B | 2437 | Ant1 | 30 | 10000 | 100 | 300 | 6.78 | -51.88 | <-23.22 | PASS |
| 11B | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | 6.776 | -43.744 | <-23.224 | PASS |
| 11B | 2462 | Ant1 | 30 | 10000 | 100 | 300 | 6.36 | -51.90 | <-23.64 | PASS |
| 11B | 2462 | Ant1 | 10000 | 26000 | 100 | 300 | 6.362 | -44.814 | <-23.638 | PASS |
| 11G | 2412 | Ant1 | 30 | 10000 | 100 | 300 | -0.35 | -54.65 | <-30.35 | PASS |
| 11G | 2412 | Ant1 | 10000 | 26000 | 100 | 300 | -0.346 | -43.949 | <-30.346 | PASS |
| 11G | 2437 | Ant1 | 30 | 10000 | 100 | 300 | -0.08 | -54.42 | <-30.08 | PASS |
| 11G | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | -0.078 | -43.773 | <-30.078 | PASS |
| 11G | 2462 | Ant1 | 30 | 10000 | 100 | 300 | -0.34 | -54.33 | <-30.34 | PASS |
| 11G | 2462 | Ant1 | 10000 | 26000 | 100 | 300 | -0.339 | -43.841 | <-30.339 | PASS |
| 11N20SISO | 2412 | Ant1 | 30 | 10000 | 100 | 300 | -0.62 | -54.97 | <-30.62 | PASS |
| 11N20SISO | 2412 | Ant1 | 10000 | 26000 | 100 | 300 | -0.623 | -43.557 | <-30.623 | PASS |
| 11N20SISO | 2437 | Ant1 | 30 | 10000 | 100 | 300 | -0.04 | -54.35 | <-30.04 | PASS |
| 11N20SISO | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | -0.037 | -44.179 | <-30.037 | PASS |
| 11N20SISO | 2462 | Ant1 | 30 | 10000 | 100 | 300 | -0.59 | -54.21 | <-30.59 | PASS |
| 11N20SISO | 2462 | Ant1 | 10000 | 26000 | 100 | 300 | -0.593 | -44.053 | <-30.593 | PASS |

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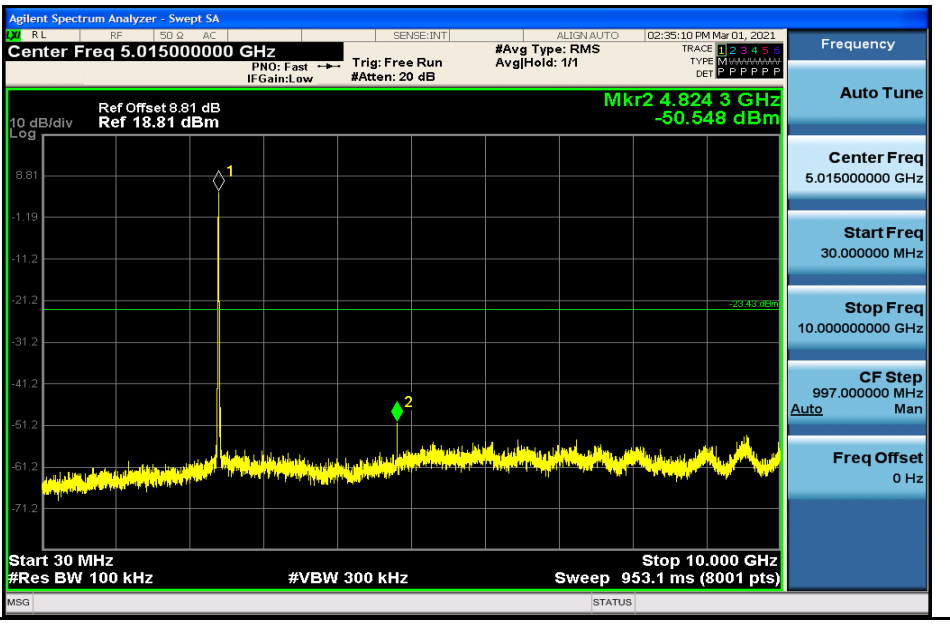
RF Conducted Spurious Emissions_11B_2412

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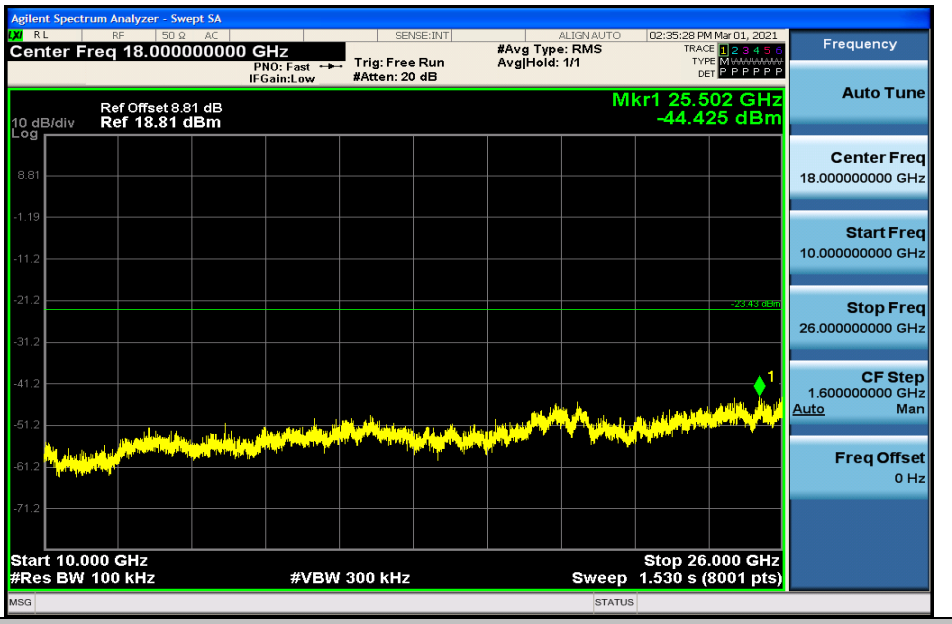


RF Conducted Spurious Emissions_11B_2437

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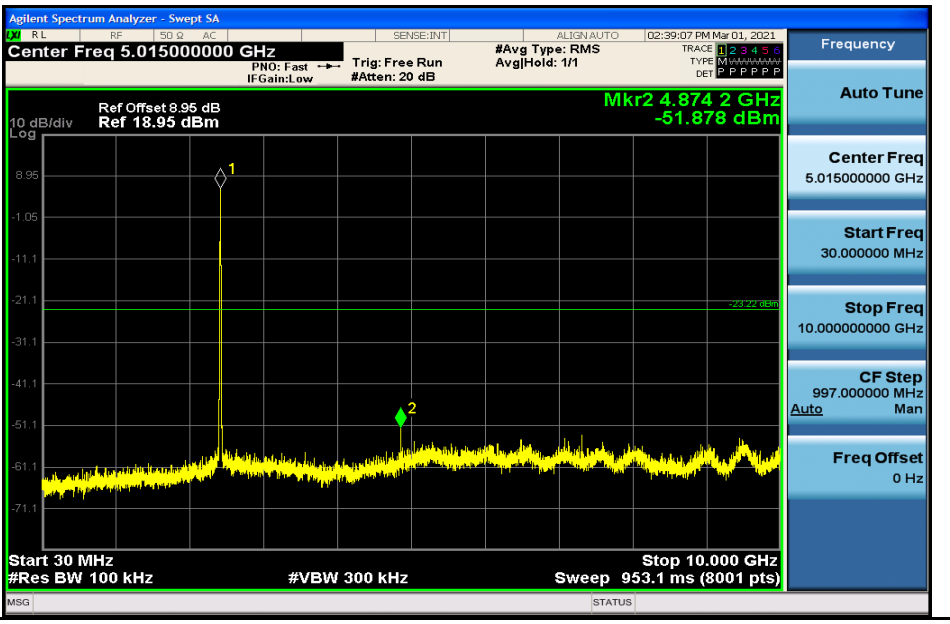

RF Conducted Spurious Emissions_11B_2462

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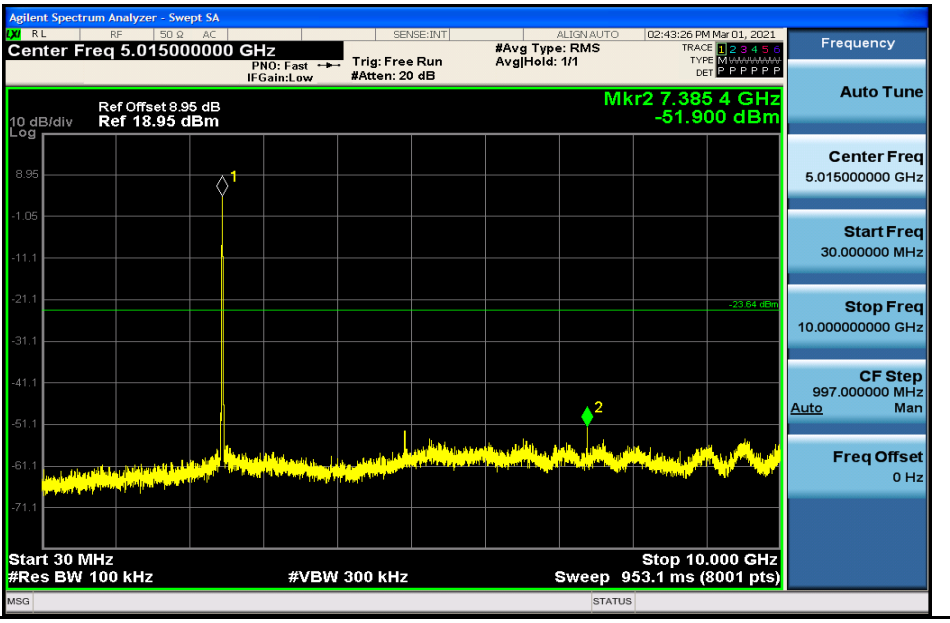


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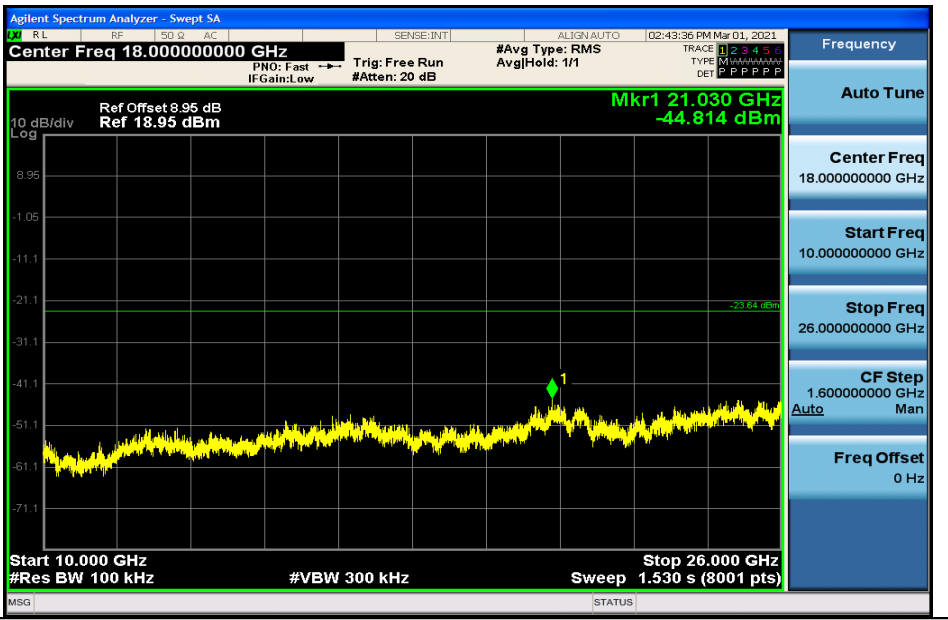


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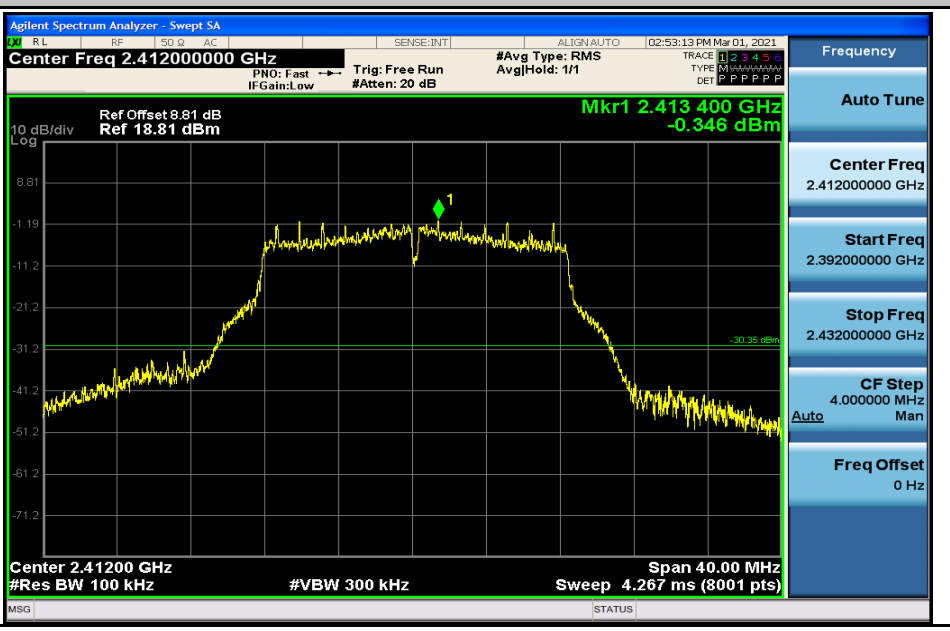


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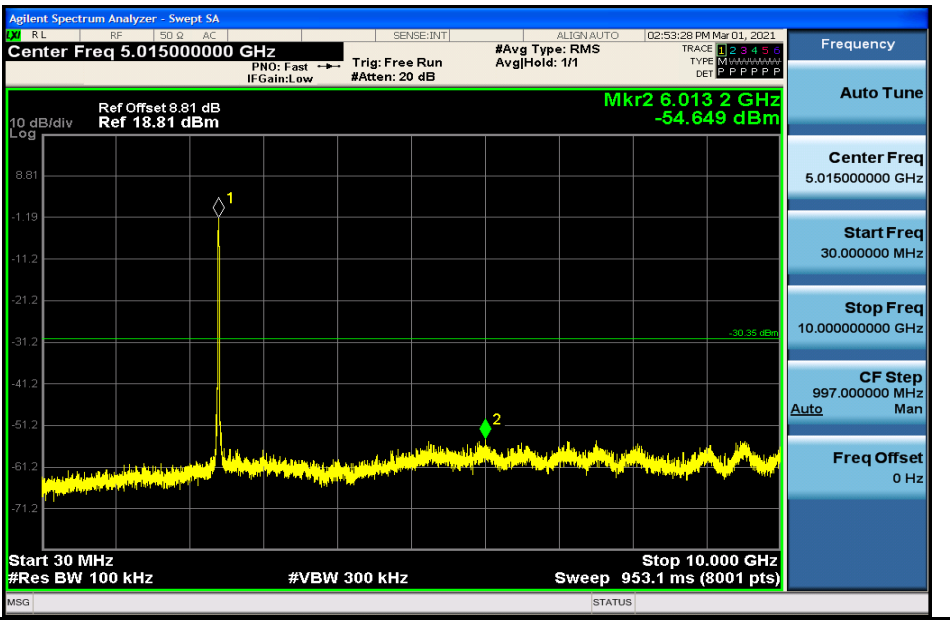


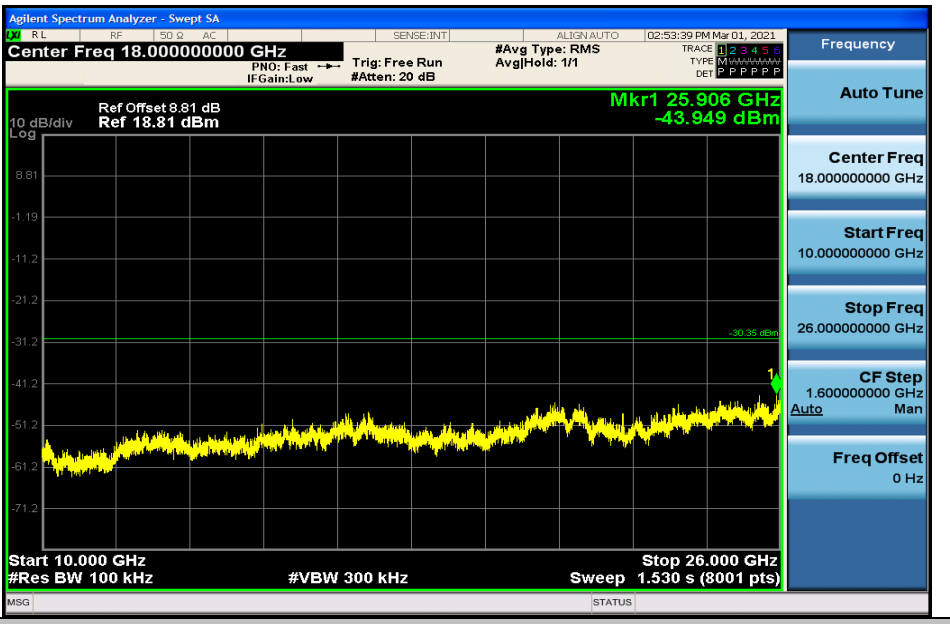


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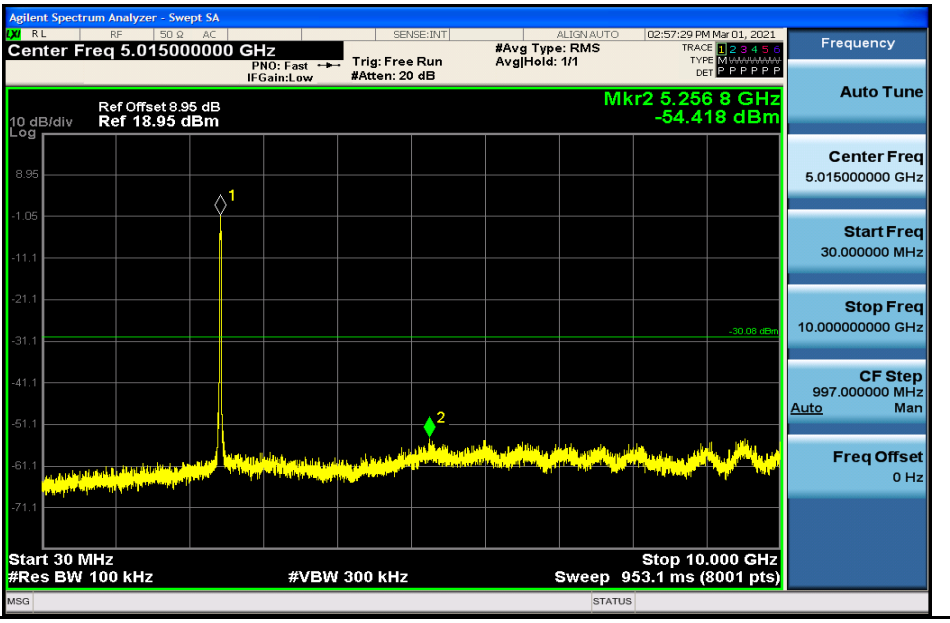


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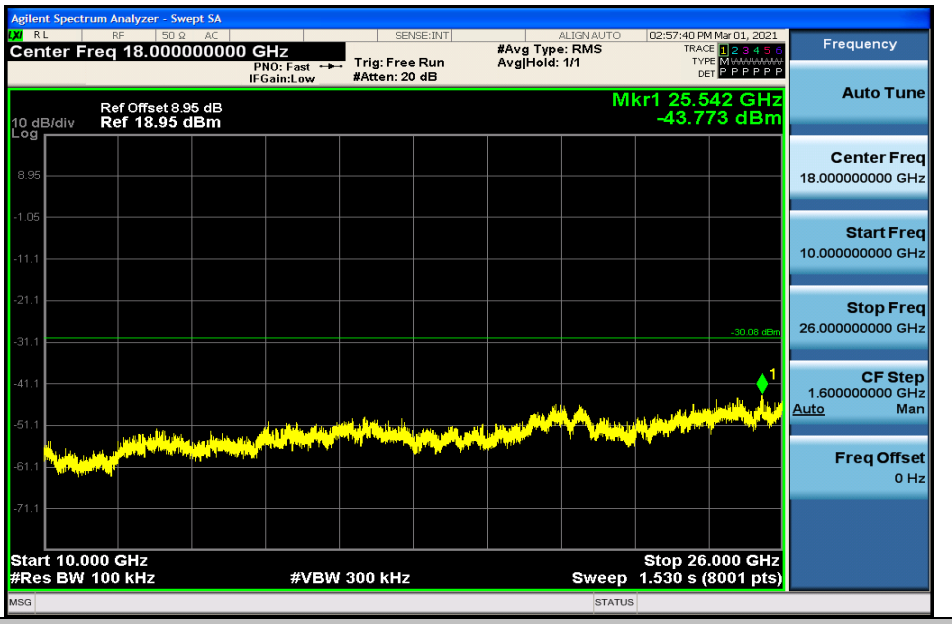


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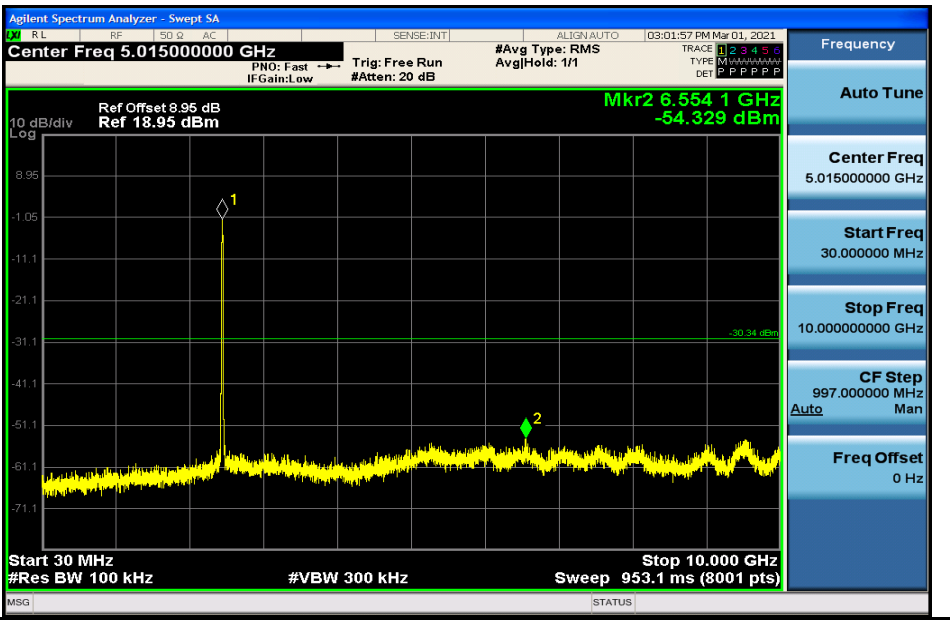


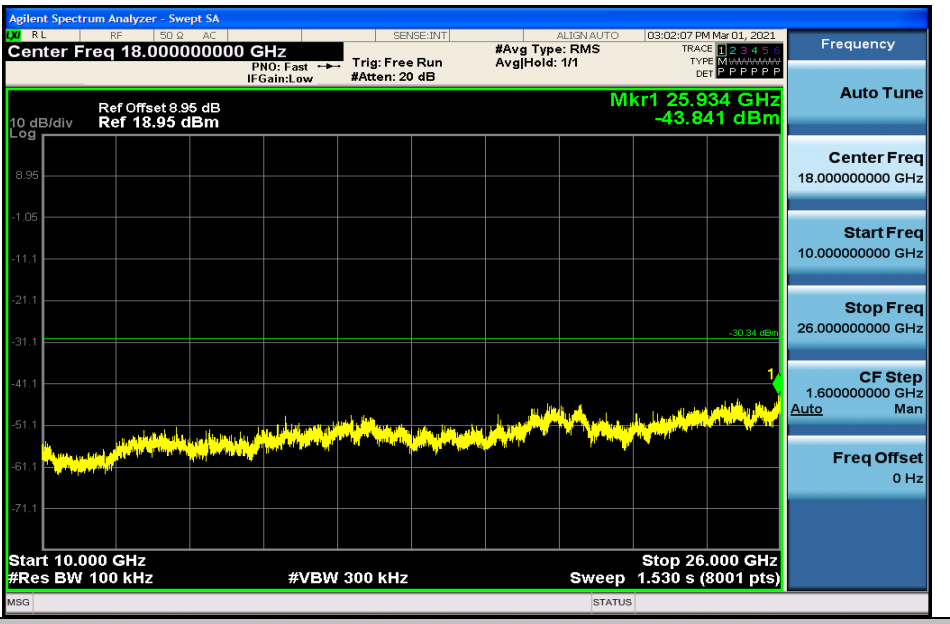


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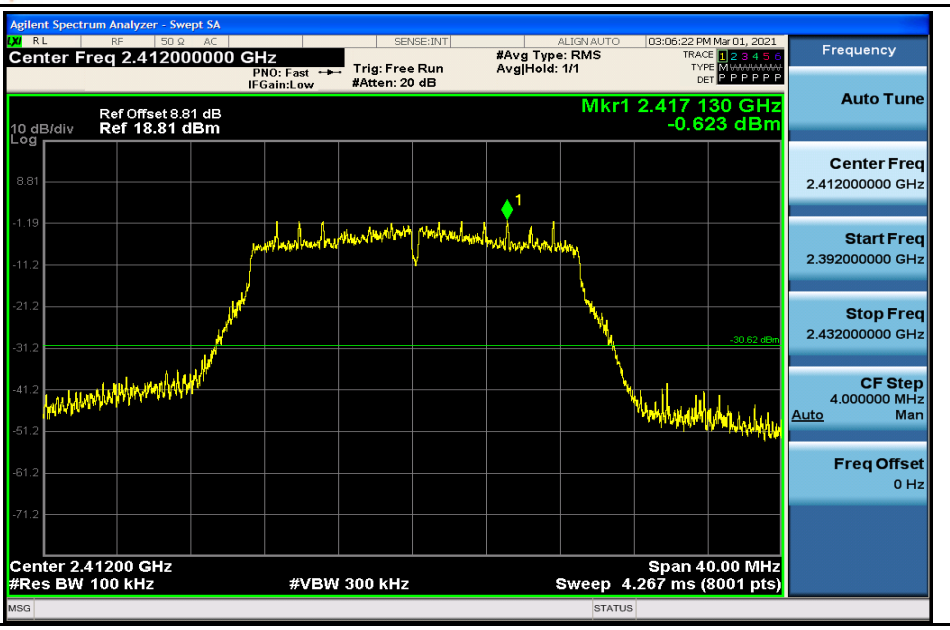


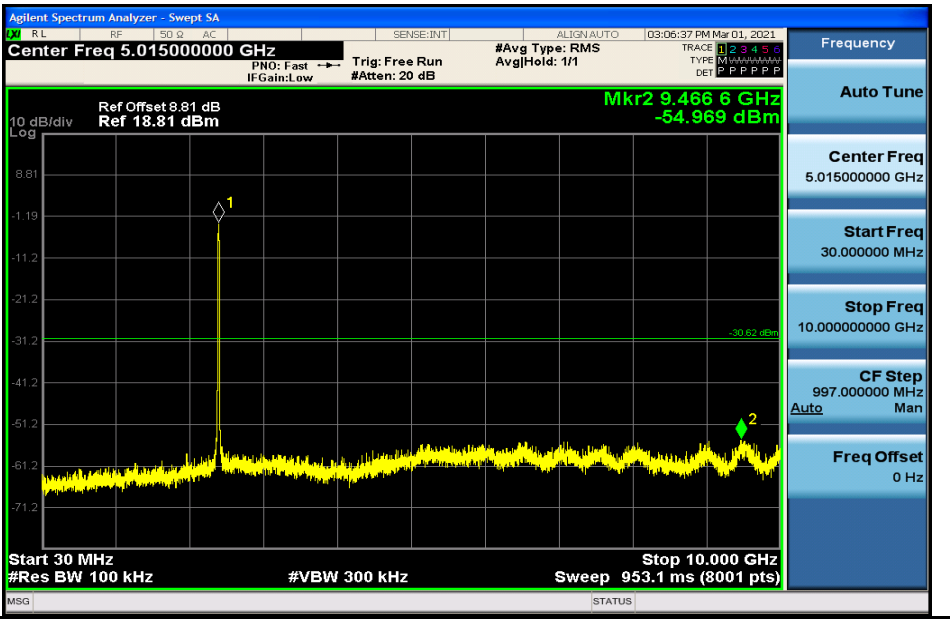


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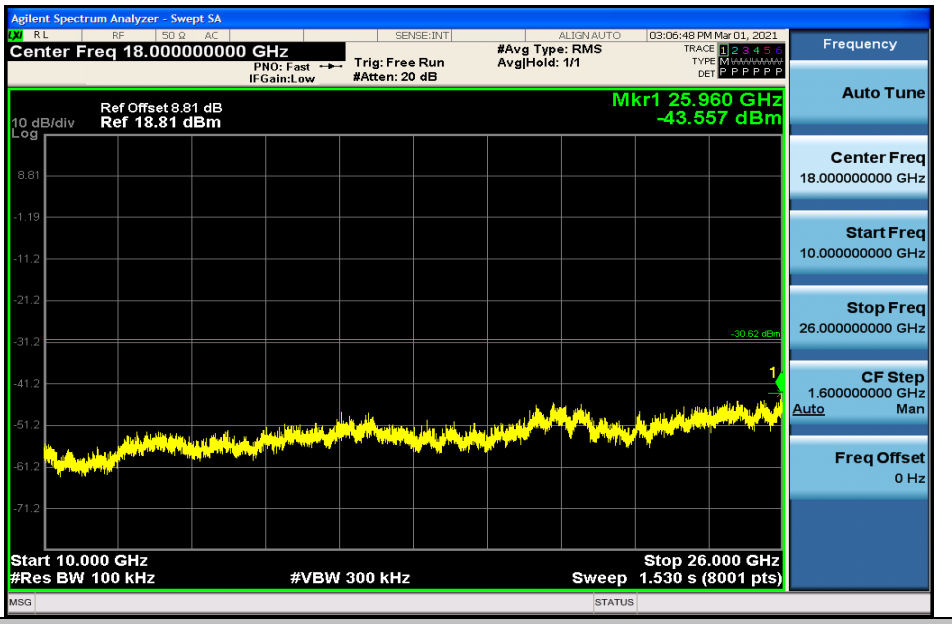


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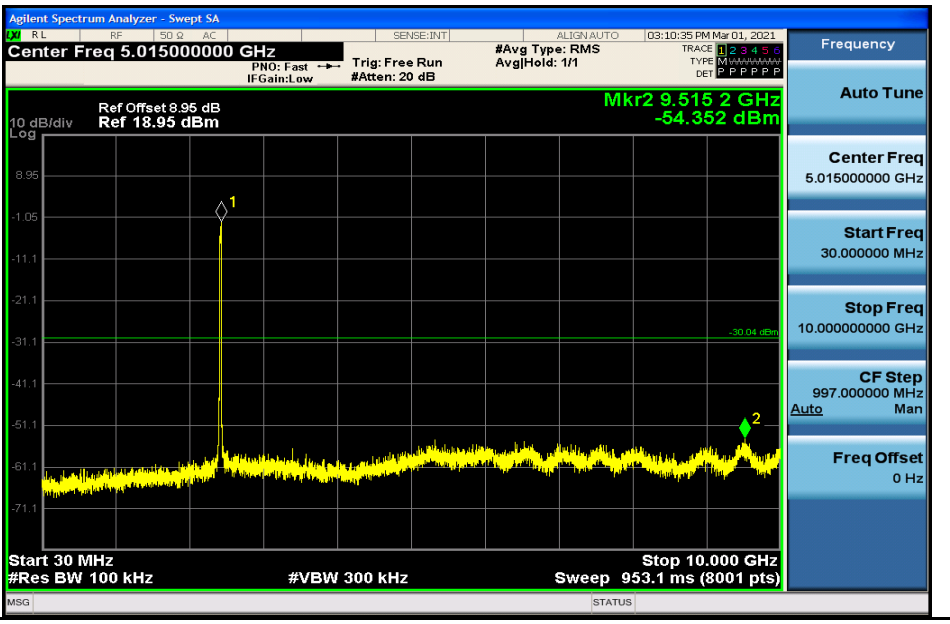


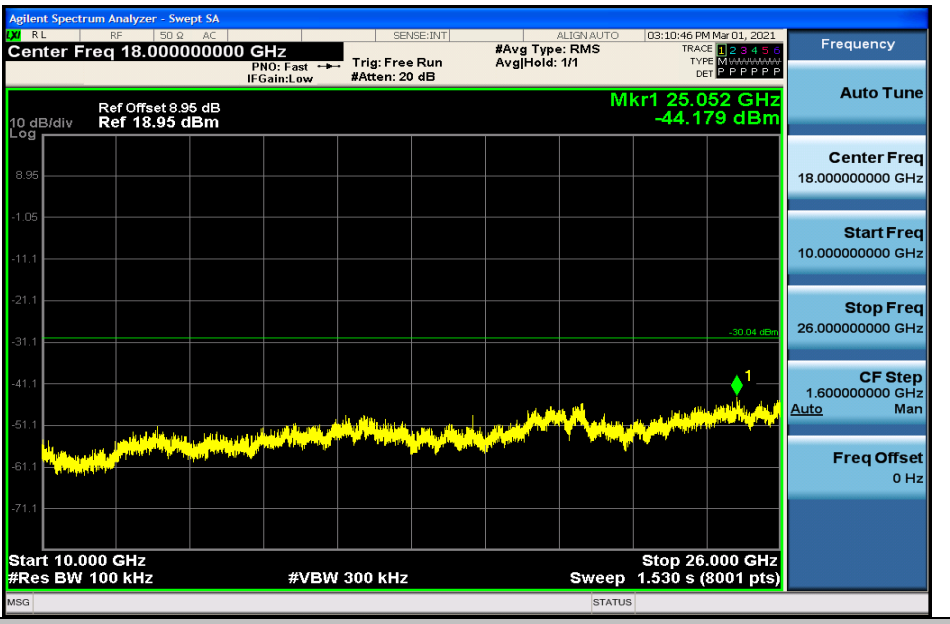


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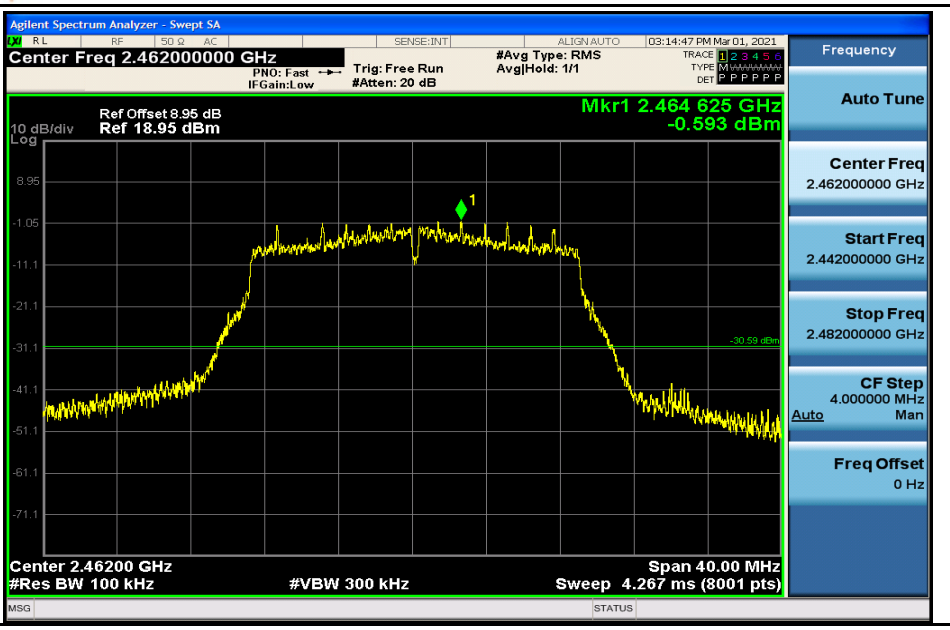


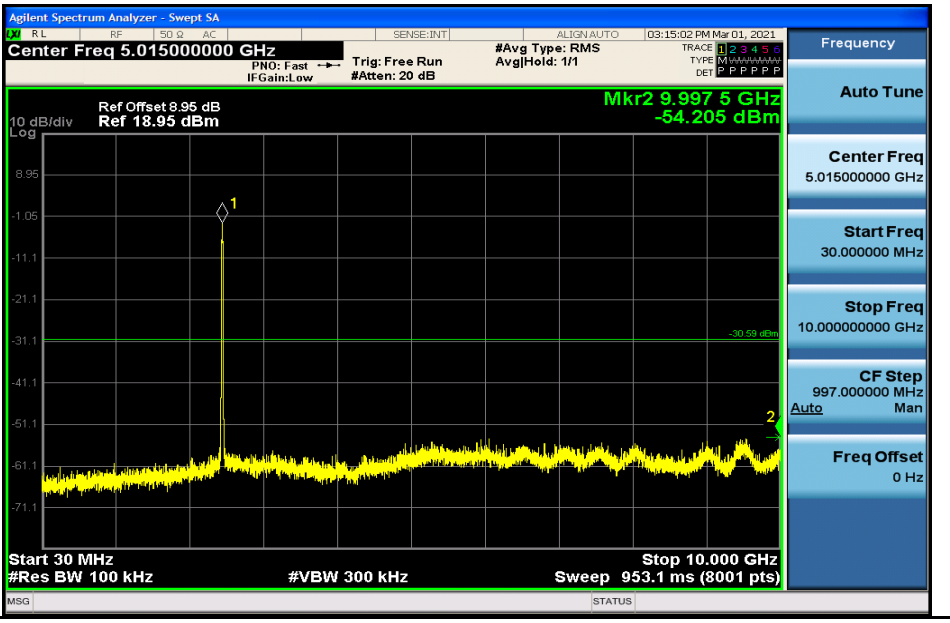


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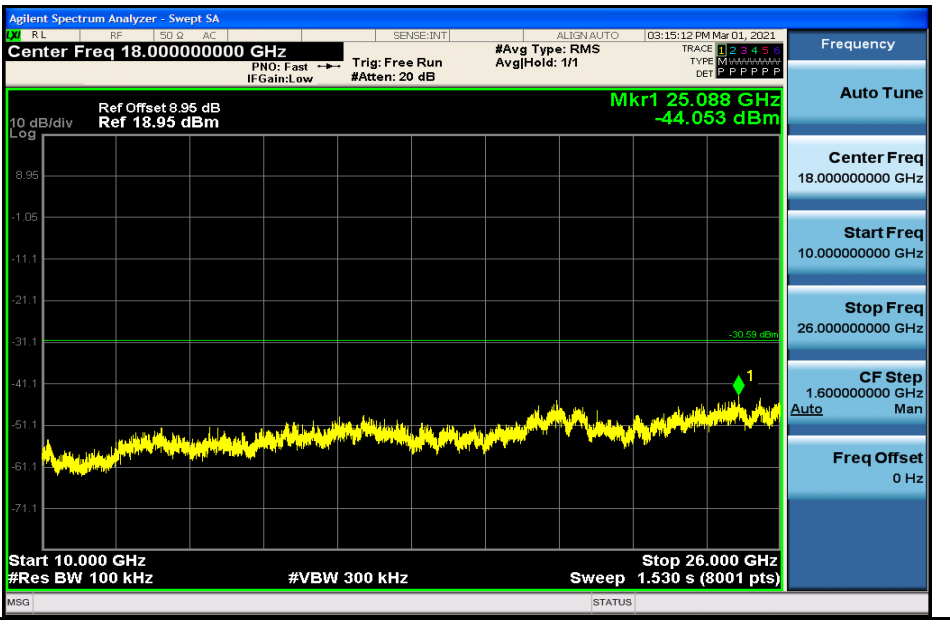


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## 7.Duty Cycle

| Test Mode | Test Channel | Ant | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|---|---|---|---|---|
| 11B | 2412 | Ant1 | 98.81 | 0.05 |
| 11B | 2437 | Ant1 | 98.81 | 0.05 |
| 11B | 2462 | Ant1 | 98.81 | 0.05 |
| 11G | 2412 | Ant1 | 92.89 | 0.32 |
| 11G | 2437 | Ant1 | 92.89 | 0.32 |
| 11G | 2462 | Ant1 | 92.74 | 0.33 |
| 11N20SISO | 2412 | Ant1 | 92.28 | 0.35 |
| 11N20SISO | 2437 | Ant1 | 92.46 | 0.34 |
| 11N20SISO | 2462 | Ant1 | 92.45 | 0.34 |

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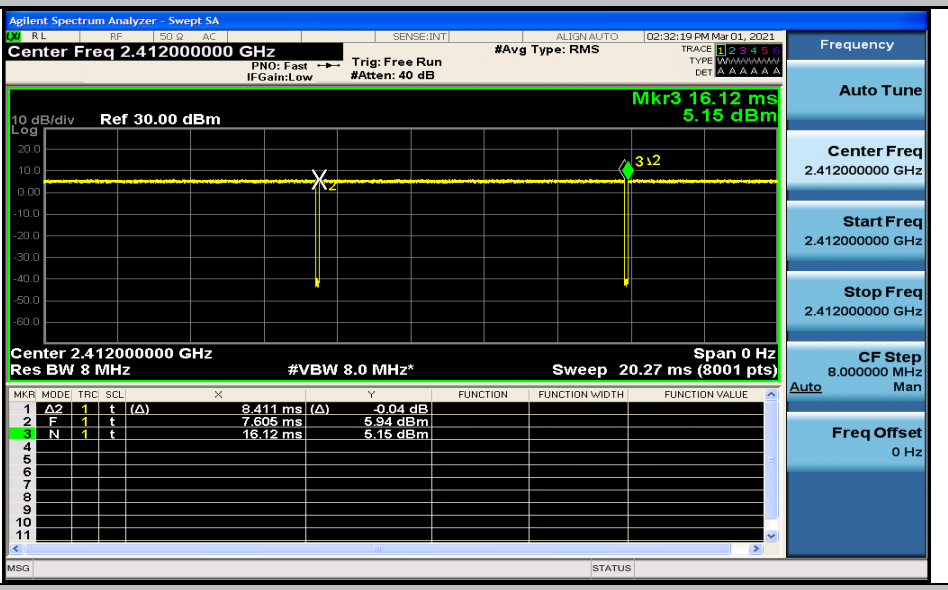
Duty Cycle_11B_2412_Ant1

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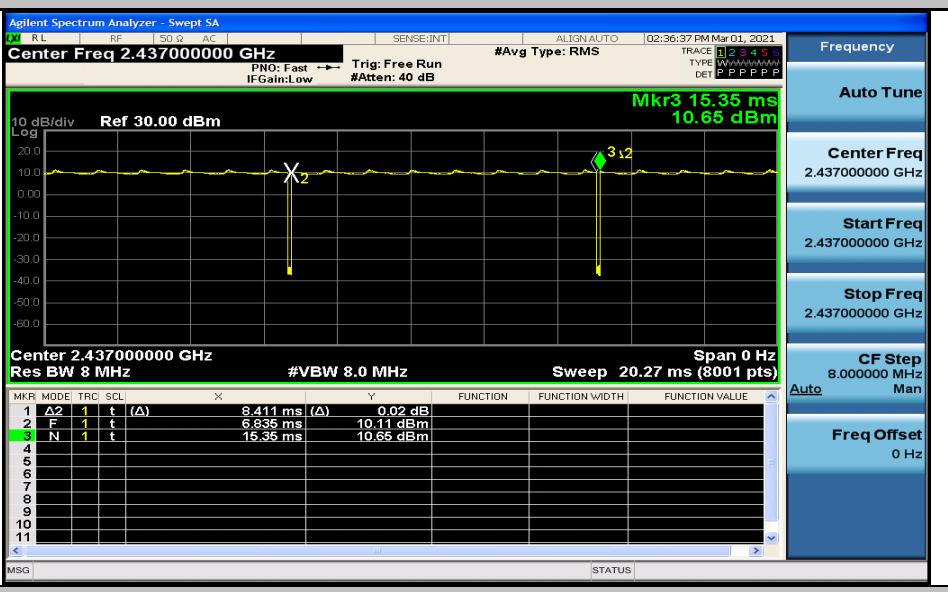


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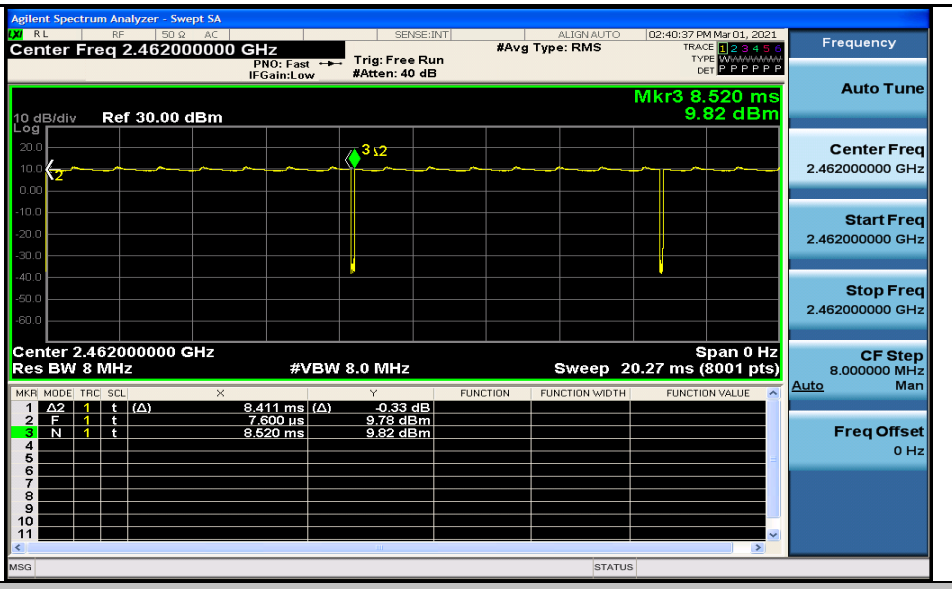
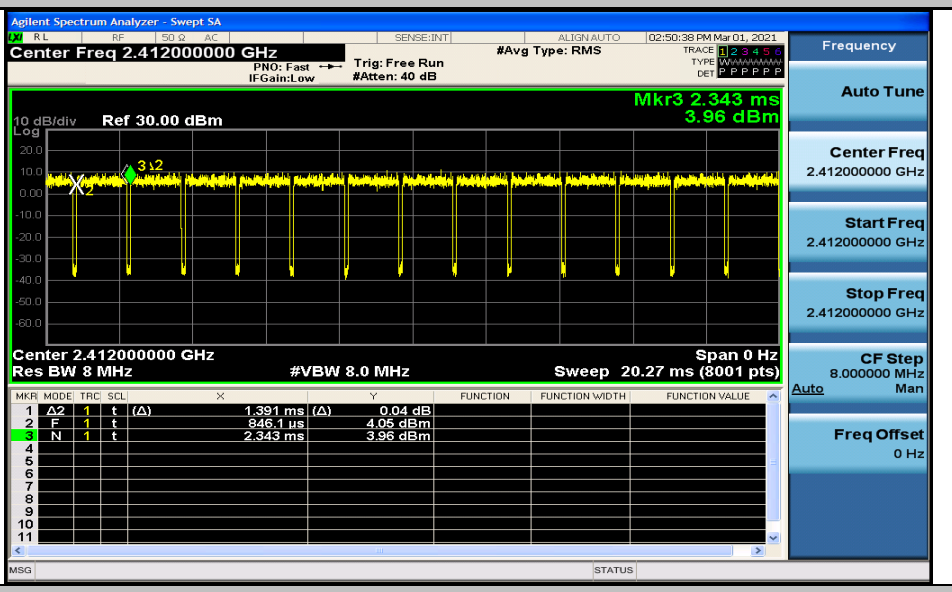



Duty Cycle_11G_2412_Ant1




Duty Cycle_11G_2437_Ant1

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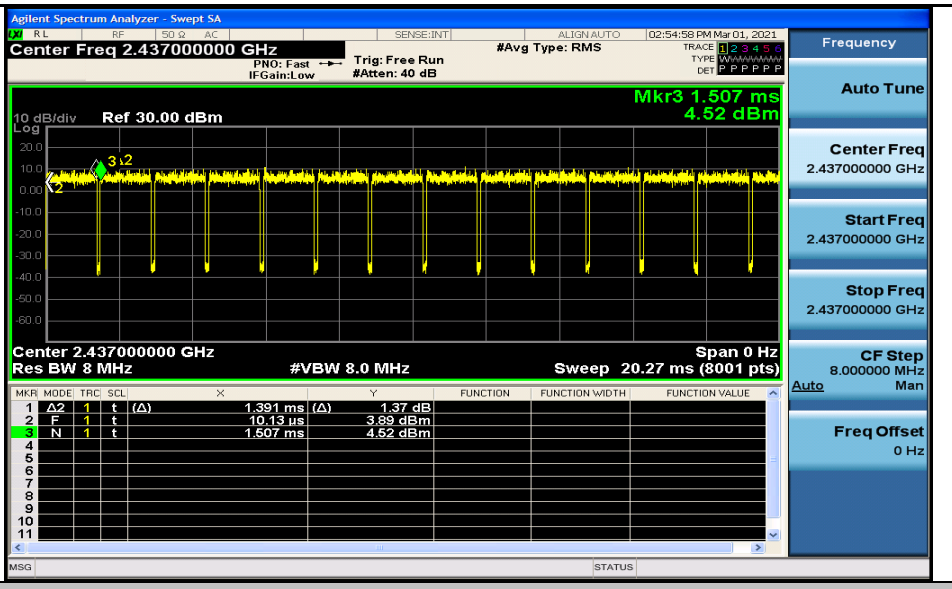
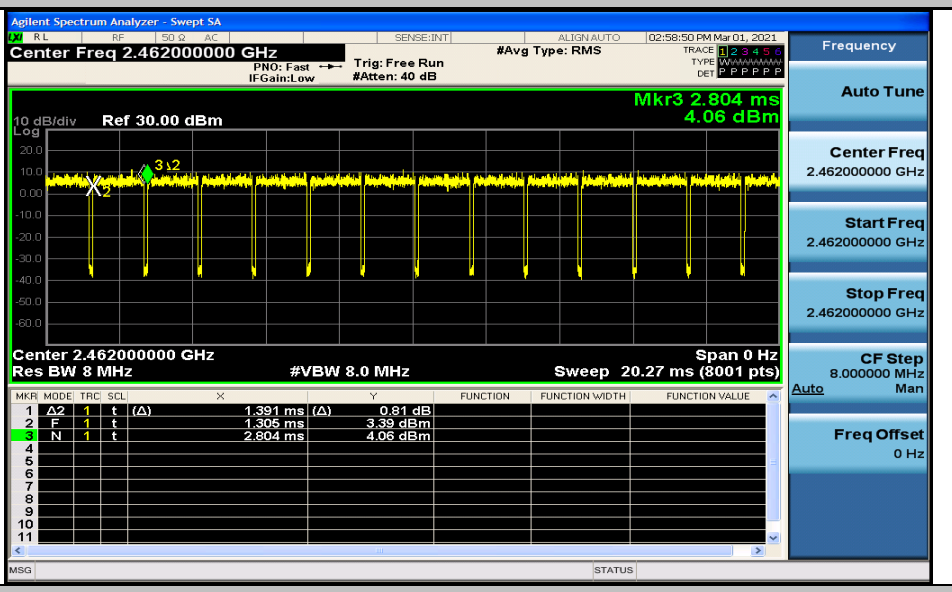



Duty Cycle_11G_2462_Ant1




Duty Cycle_11N20SISO_2412_Ant1

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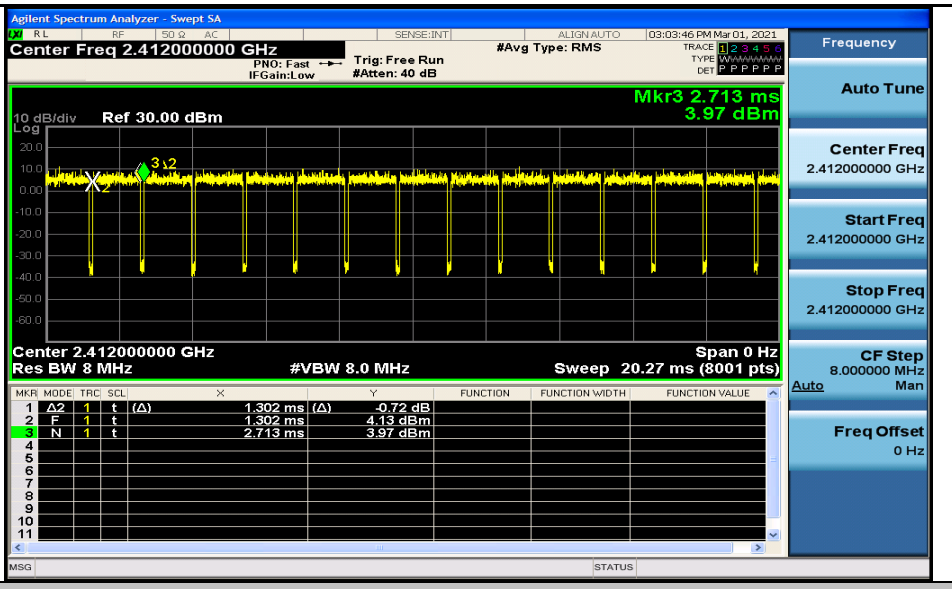


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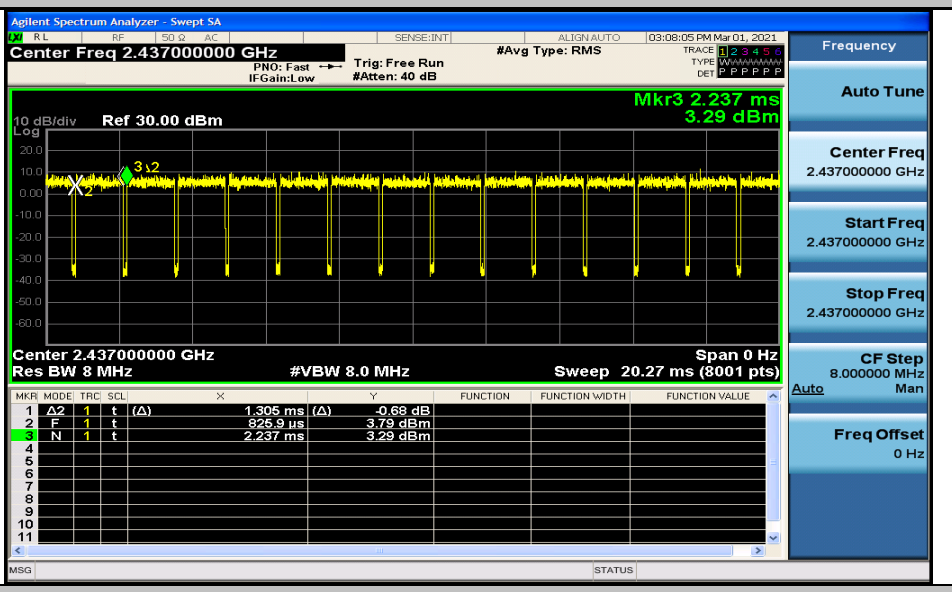


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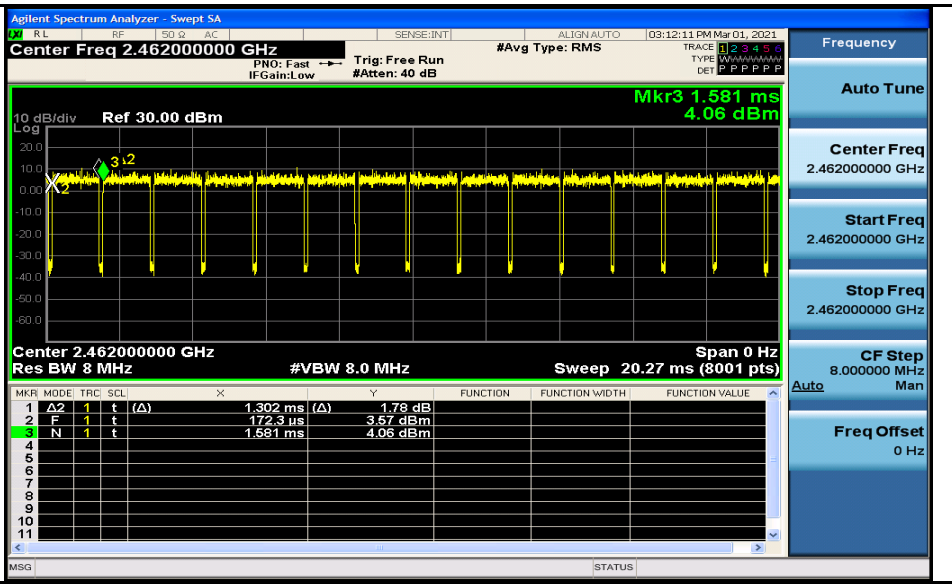


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