

## Appendix: 2.4G WIFI

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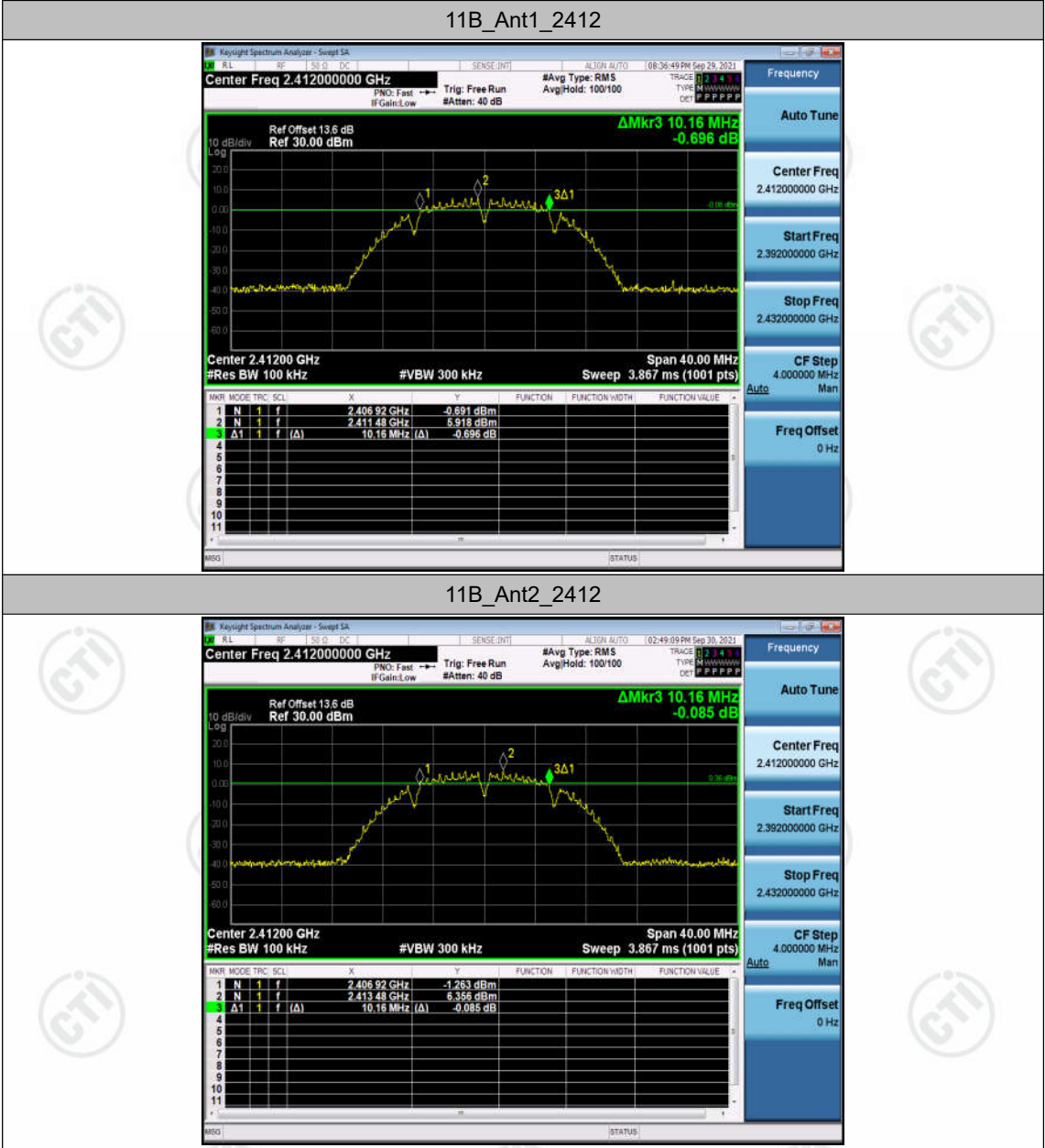
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## AppendixA: DTS Bandwidth

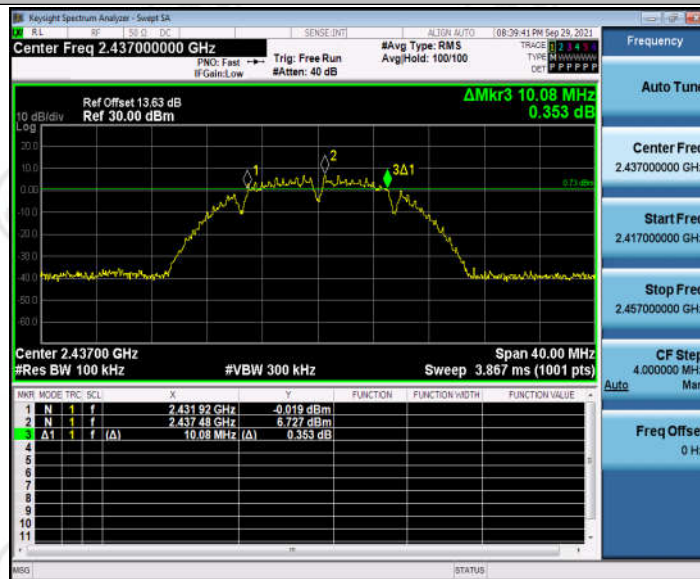
### Test Result

| Test Mode     | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|---------------|---------|---------|--------------|----------|----------|------------|---------|
| 11B           | Ant1    | 2412    | 10.160       | 2406.920 | 2417.080 | 0.5        | PASS    |
|               | Ant2    | 2412    | 10.160       | 2406.920 | 2417.080 | 0.5        | PASS    |
|               | Ant1    | 2437    | 10.080       | 2431.920 | 2442.000 | 0.5        | PASS    |
|               | Ant2    | 2437    | 10.120       | 2431.920 | 2442.040 | 0.5        | PASS    |
|               | Ant1    | 2462    | 10.160       | 2456.920 | 2467.080 | 0.5        | PASS    |
|               | Ant2    | 2462    | 10.160       | 2456.920 | 2467.080 | 0.5        | PASS    |
| 11G           | Ant1    | 2412    | 15.360       | 2404.440 | 2419.800 | 0.5        | PASS    |
|               | Ant2    | 2412    | 15.080       | 2404.440 | 2419.520 | 0.5        | PASS    |
|               | Ant1    | 2437    | 15.760       | 2429.000 | 2444.760 | 0.5        | PASS    |
|               | Ant2    | 2437    | 16.360       | 2428.800 | 2445.160 | 0.5        | PASS    |
|               | Ant1    | 2462    | 15.760       | 2454.040 | 2469.800 | 0.5        | PASS    |
|               | Ant2    | 2462    | 15.760       | 2454.080 | 2469.840 | 0.5        | PASS    |
| 11N20SIS<br>O | Ant1    | 2412    | 16.560       | 2403.840 | 2420.400 | 0.5        | PASS    |
|               | Ant2    | 2412    | 17.600       | 2403.200 | 2420.800 | 0.5        | PASS    |
|               | Ant1    | 2437    | 17.240       | 2428.560 | 2445.800 | 0.5        | PASS    |
|               | Ant2    | 2437    | 16.600       | 2428.800 | 2445.400 | 0.5        | PASS    |
|               | Ant1    | 2462    | 17.360       | 2453.440 | 2470.800 | 0.5        | PASS    |
|               | Ant2    | 2462    | 17.080       | 2453.480 | 2470.560 | 0.5        | PASS    |
| 11N40SIS<br>O | Ant1    | 2422    | 35.200       | 2404.400 | 2439.600 | 0.5        | PASS    |
|               | Ant2    | 2422    | 35.360       | 2404.320 | 2439.680 | 0.5        | PASS    |
|               | Ant1    | 2437    | 35.280       | 2419.400 | 2454.680 | 0.5        | PASS    |
|               | Ant2    | 2437    | 35.280       | 2419.320 | 2454.600 | 0.5        | PASS    |
|               | Ant1    | 2452    | 31.680       | 2436.880 | 2468.560 | 0.5        | PASS    |
|               | Ant2    | 2452    | 35.600       | 2434.000 | 2469.600 | 0.5        | PASS    |

Test Graphs



11B\_Ant1\_2437



11B\_Ant2\_2437



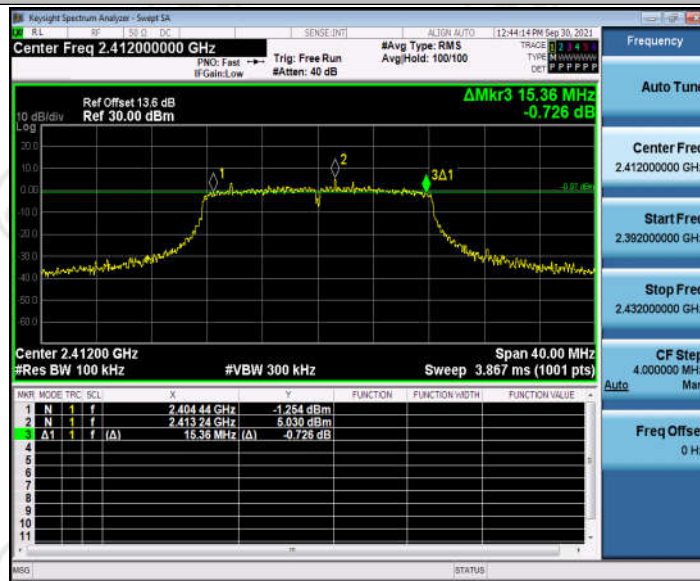
11B\_Ant1\_2462



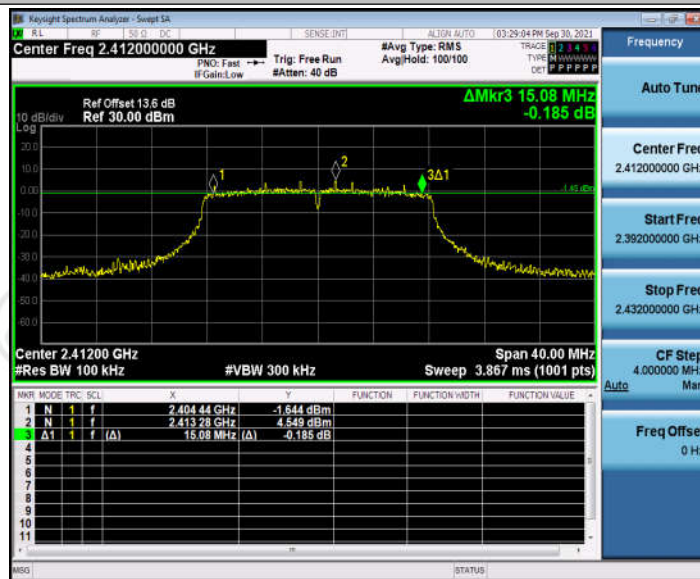
11B\_Ant2\_2462



11G\_Ant1\_2412



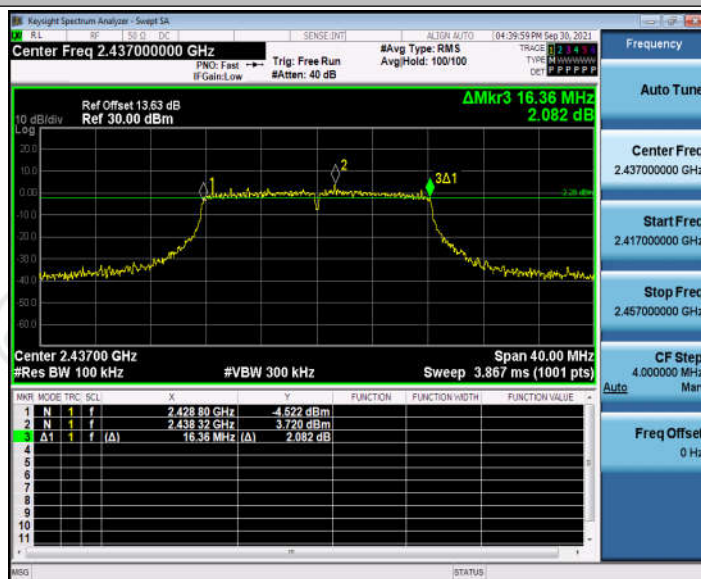
11G\_Ant2\_2412



11G\_Ant1\_2437



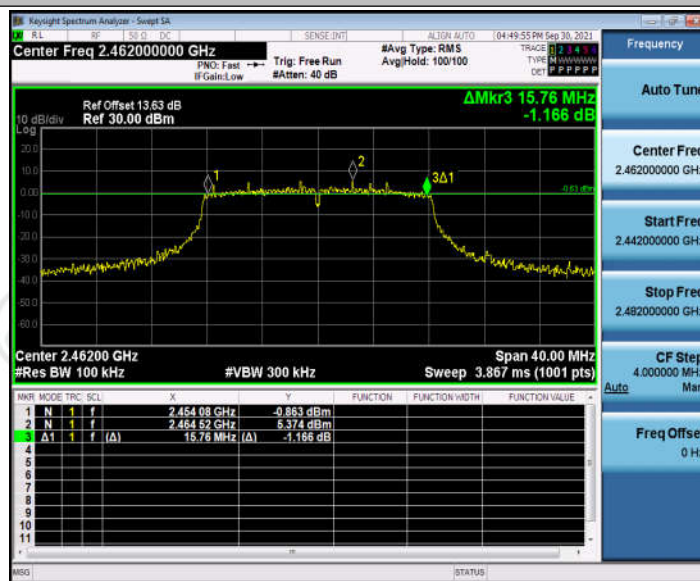
11G\_Ant2\_2437



11G\_Ant1\_2462



11G\_Ant2\_2462



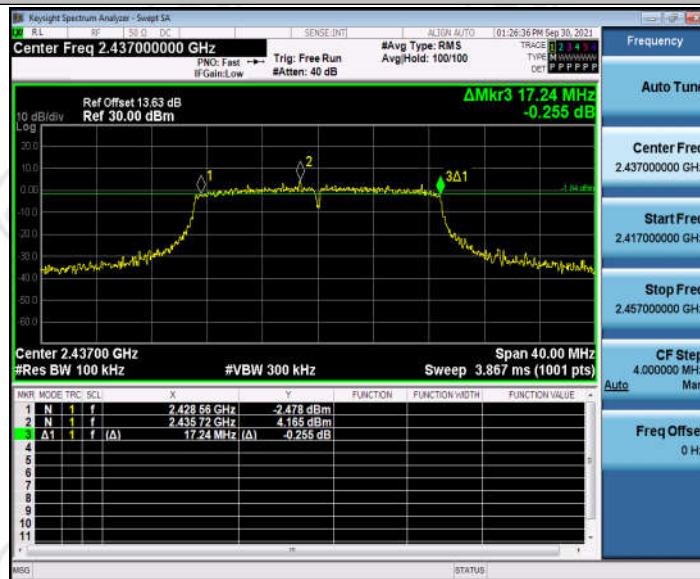
11N20SISO\_Ant1\_2412



11N20SISO\_Ant2\_2412



11N20SISO\_Ant1\_2437



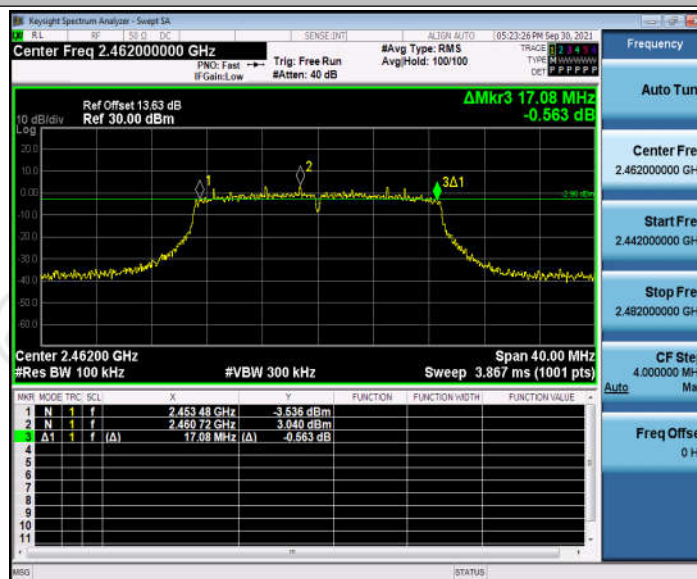
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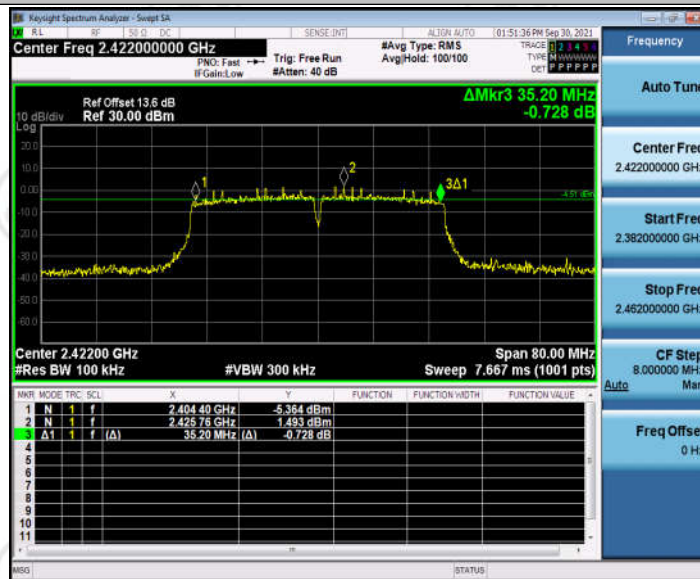
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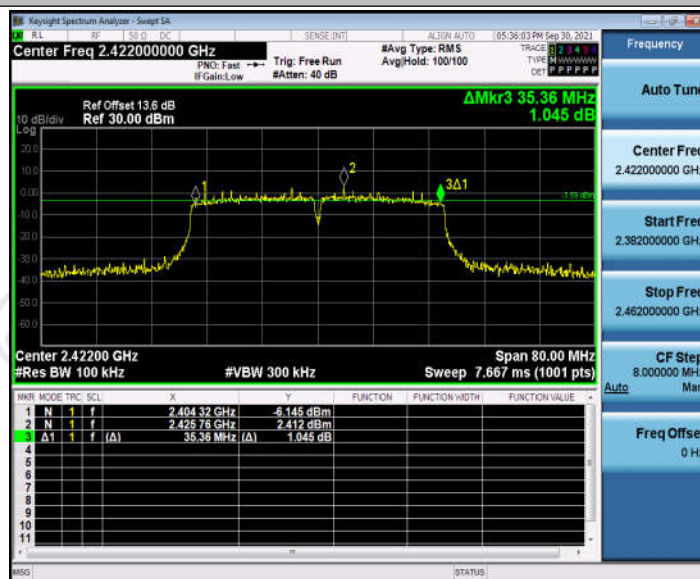
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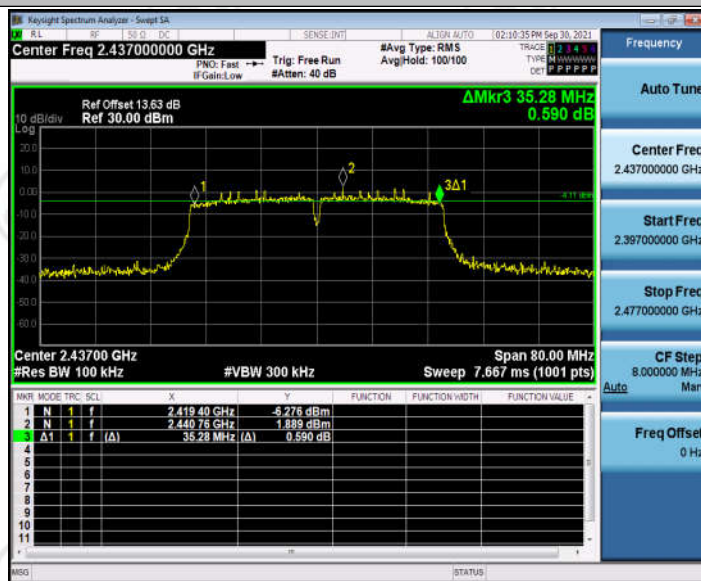
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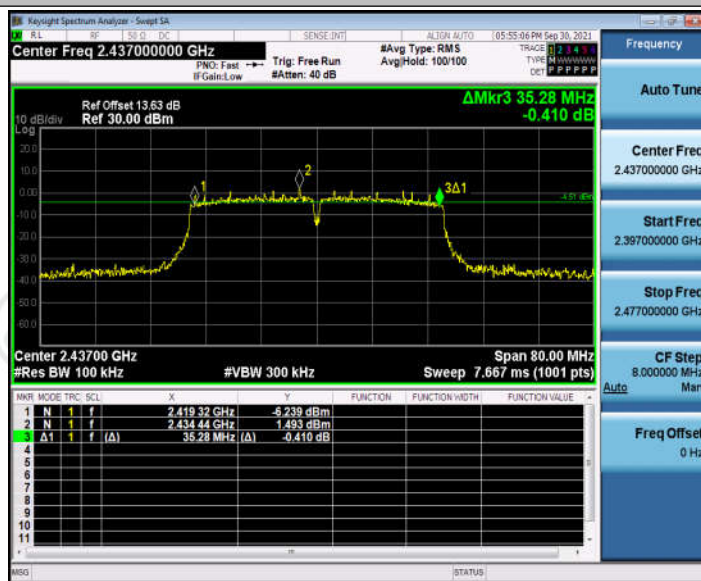
11N40SISO\_Ant2\_2422



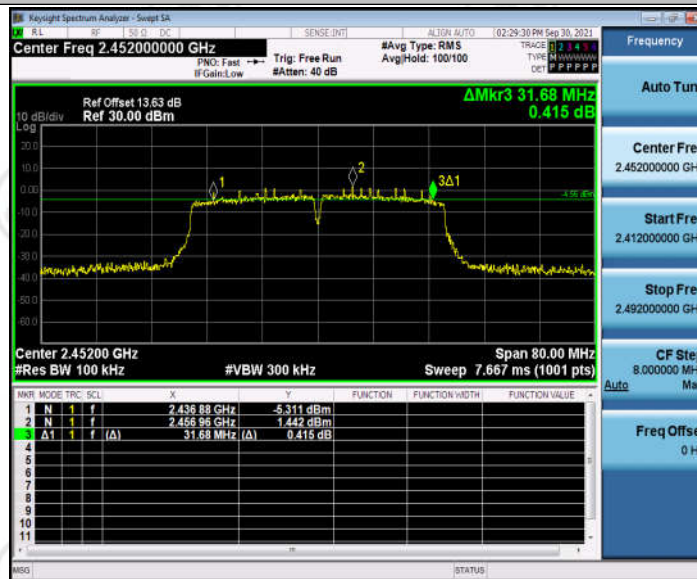
11N40SISO\_Ant1\_2437



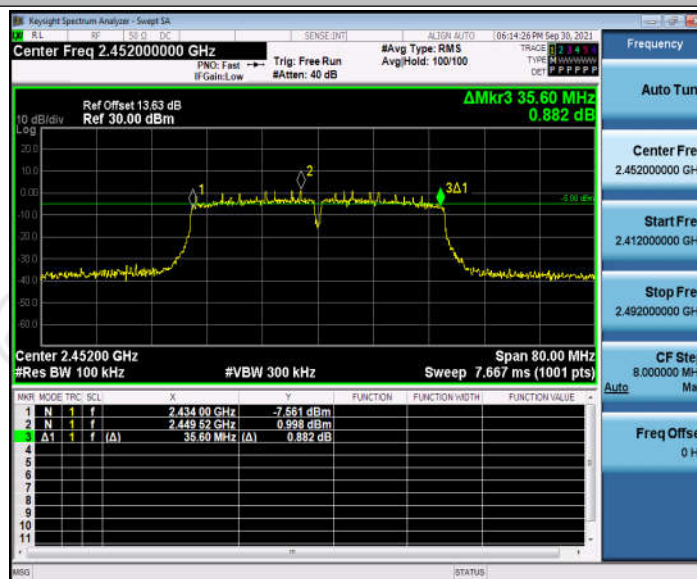
11N40SISO\_Ant2\_2437



11N40SISO\_Ant1\_2452



11N40SISO\_Ant2\_2452

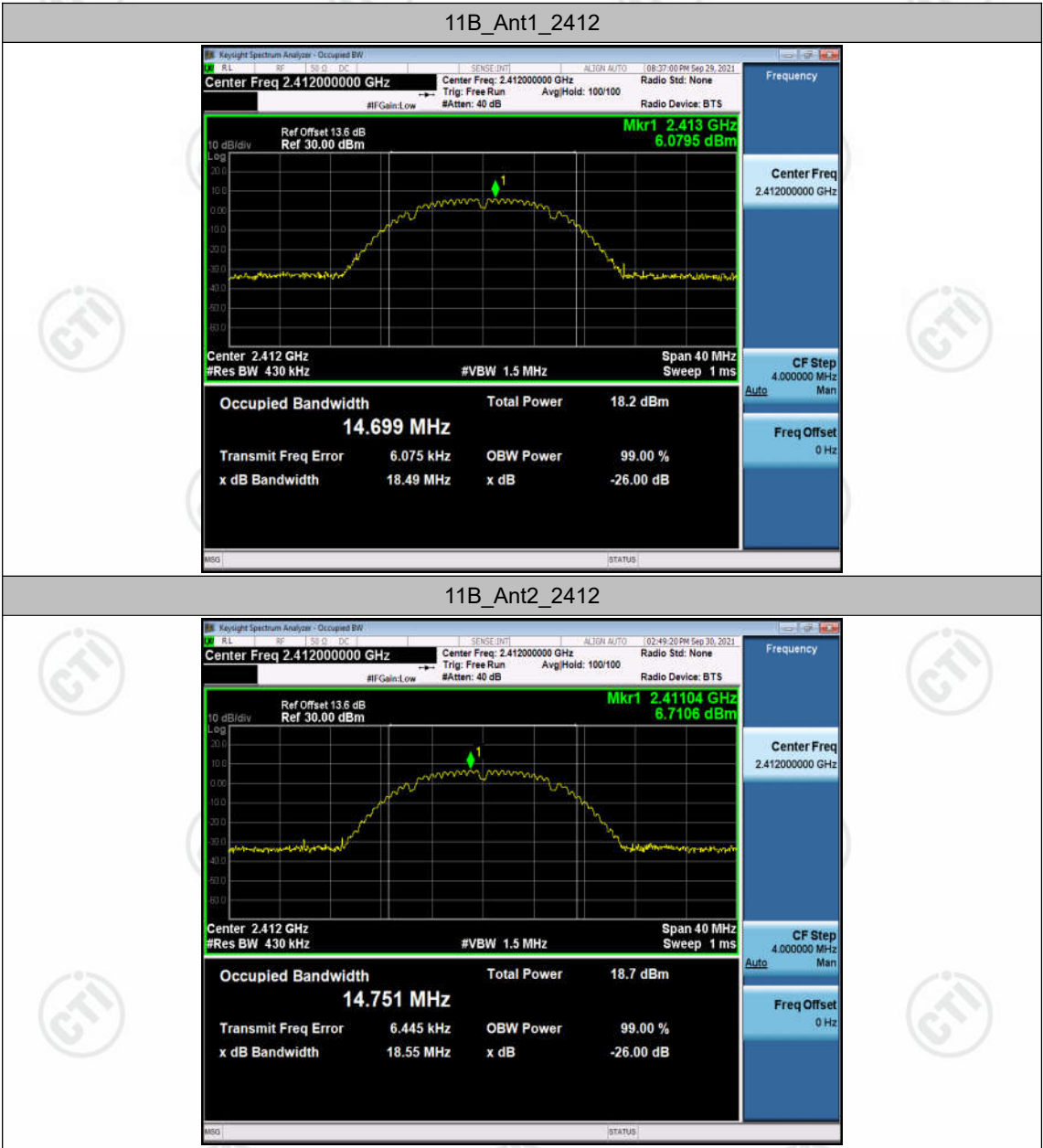


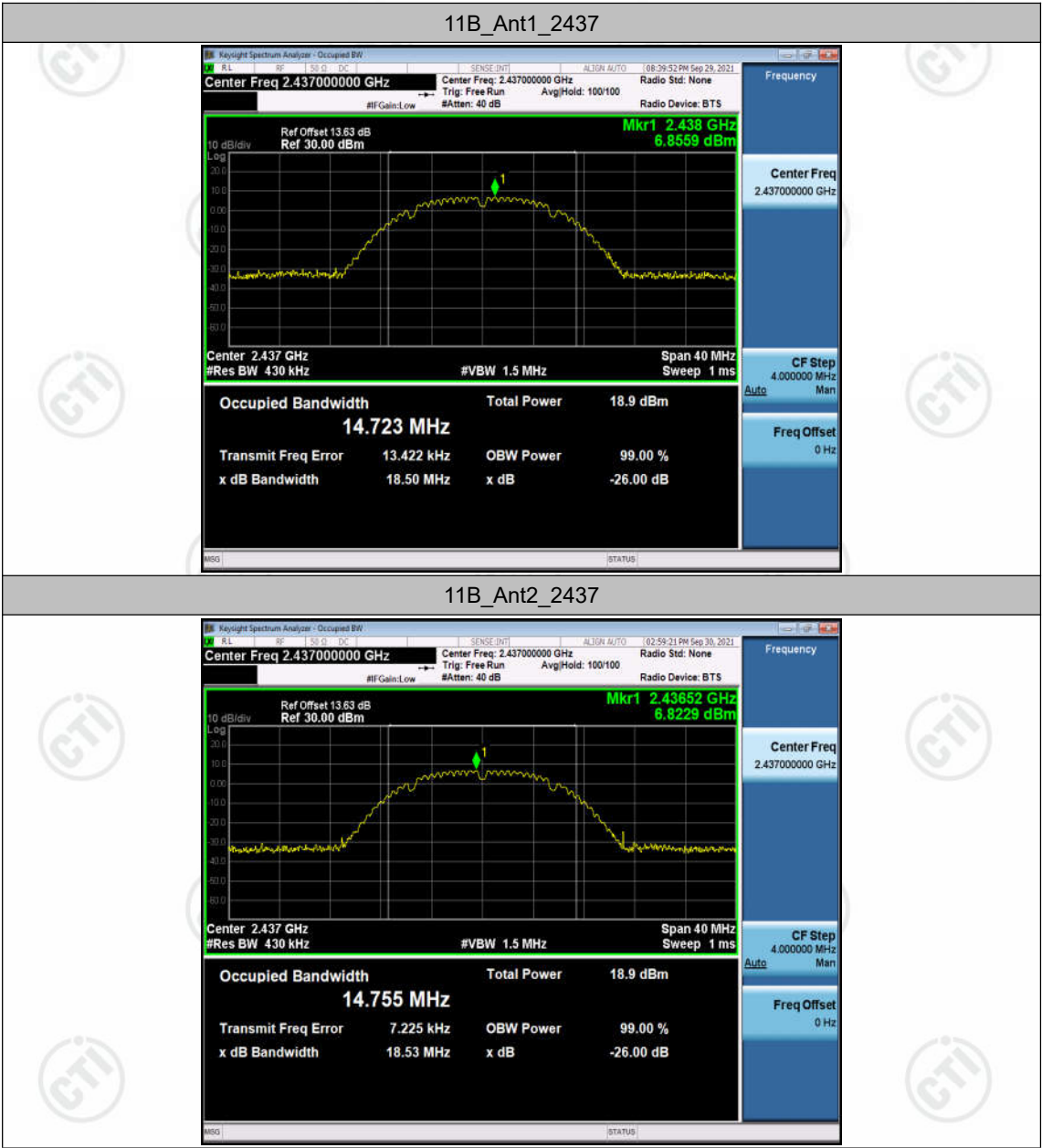
## AppendixB: Occupied Channel Bandwidth

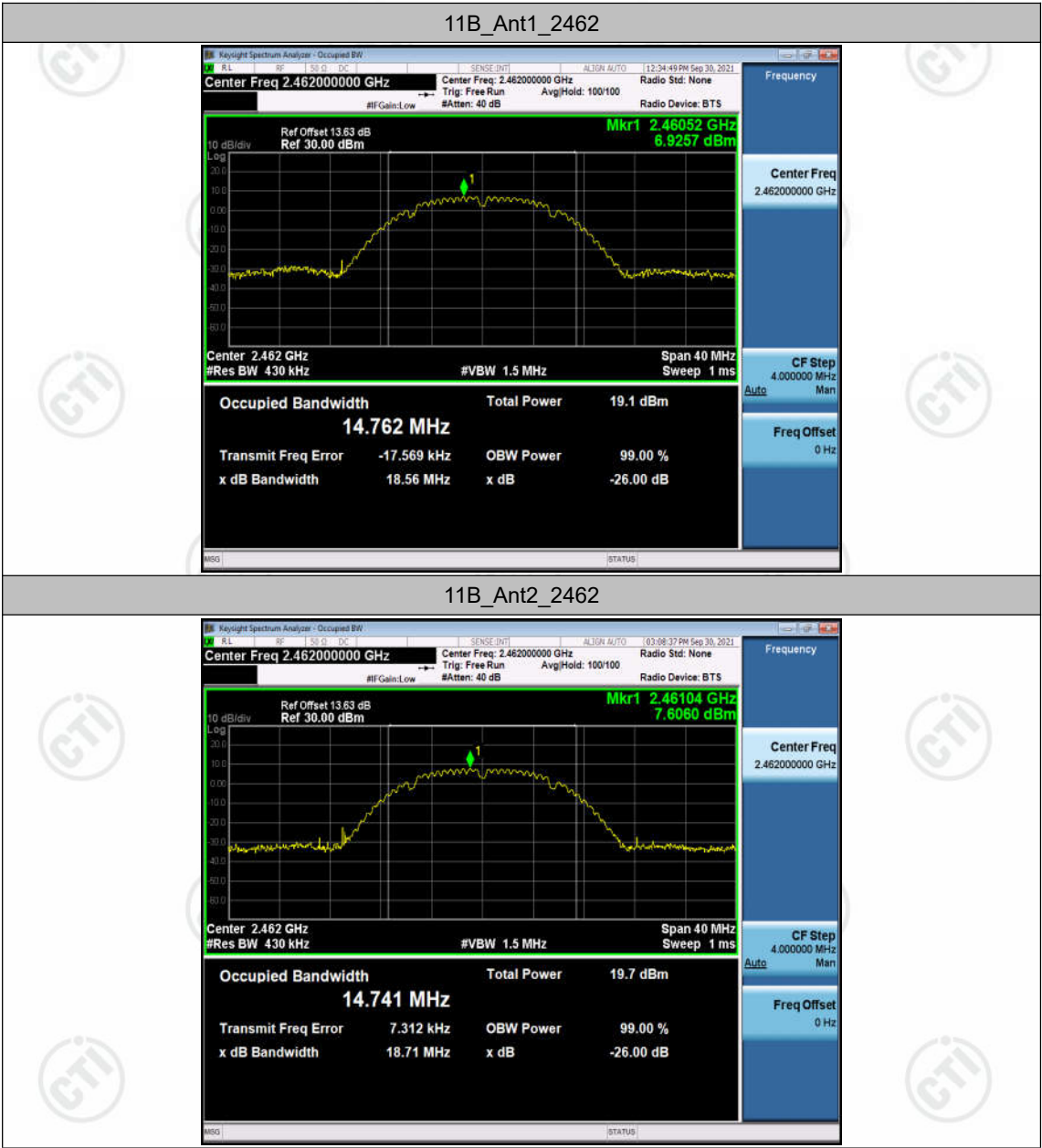
### Test Result

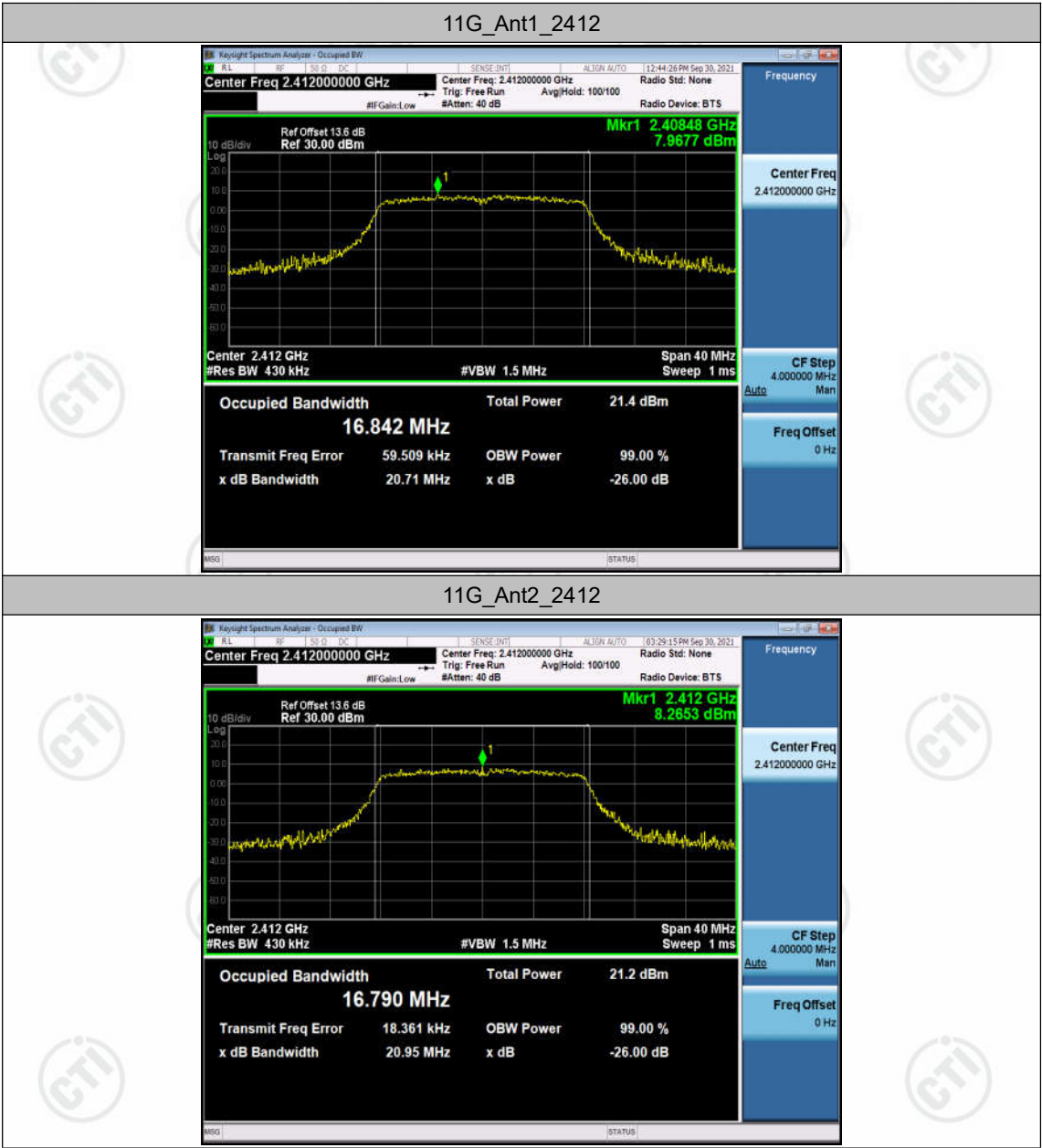
| Test Mode     | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|---------------|---------|---------|-----------|----------|----------|------------|---------|
| 11B           | Ant1    | 2412    | 14.699    | 2404.657 | 2419.356 | ---        | PASS    |
|               | Ant2    | 2412    | 14.751    | 2404.631 | 2419.382 | ---        | PASS    |
|               | Ant1    | 2437    | 14.723    | 2429.652 | 2444.375 | ---        | PASS    |
|               | Ant2    | 2437    | 14.755    | 2429.630 | 2444.385 | ---        | PASS    |
|               | Ant1    | 2462    | 14.762    | 2454.601 | 2469.363 | ---        | PASS    |
|               | Ant2    | 2462    | 14.741    | 2454.637 | 2469.378 | ---        | PASS    |
| 11G           | Ant1    | 2412    | 16.842    | 2403.639 | 2420.481 | ---        | PASS    |
|               | Ant2    | 2412    | 16.790    | 2403.623 | 2420.413 | ---        | PASS    |
|               | Ant1    | 2437    | 16.842    | 2428.631 | 2445.473 | ---        | PASS    |
|               | Ant2    | 2437    | 16.760    | 2428.639 | 2445.399 | ---        | PASS    |
|               | Ant1    | 2462    | 16.786    | 2453.642 | 2470.428 | ---        | PASS    |
|               | Ant2    | 2462    | 16.786    | 2453.622 | 2470.408 | ---        | PASS    |
| 11N20SIS<br>O | Ant1    | 2412    | 17.858    | 2403.110 | 2420.968 | ---        | PASS    |
|               | Ant2    | 2412    | 17.867    | 2403.061 | 2420.928 | ---        | PASS    |
|               | Ant1    | 2437    | 17.884    | 2428.093 | 2445.977 | ---        | PASS    |
|               | Ant2    | 2437    | 17.954    | 2428.016 | 2445.970 | ---        | PASS    |
|               | Ant1    | 2462    | 17.940    | 2453.016 | 2470.956 | ---        | PASS    |
|               | Ant2    | 2462    | 17.852    | 2453.052 | 2470.904 | ---        | PASS    |
| 11N40SIS<br>O | Ant1    | 2422    | 36.217    | 2403.975 | 2440.192 | ---        | PASS    |
|               | Ant2    | 2422    | 36.297    | 2403.812 | 2440.109 | ---        | PASS    |
|               | Ant1    | 2437    | 36.400    | 2418.939 | 2455.339 | ---        | PASS    |
|               | Ant2    | 2437    | 36.422    | 2418.777 | 2455.199 | ---        | PASS    |
|               | Ant1    | 2452    | 36.389    | 2433.851 | 2470.240 | ---        | PASS    |
|               | Ant2    | 2452    | 36.233    | 2433.866 | 2470.099 | ---        | PASS    |

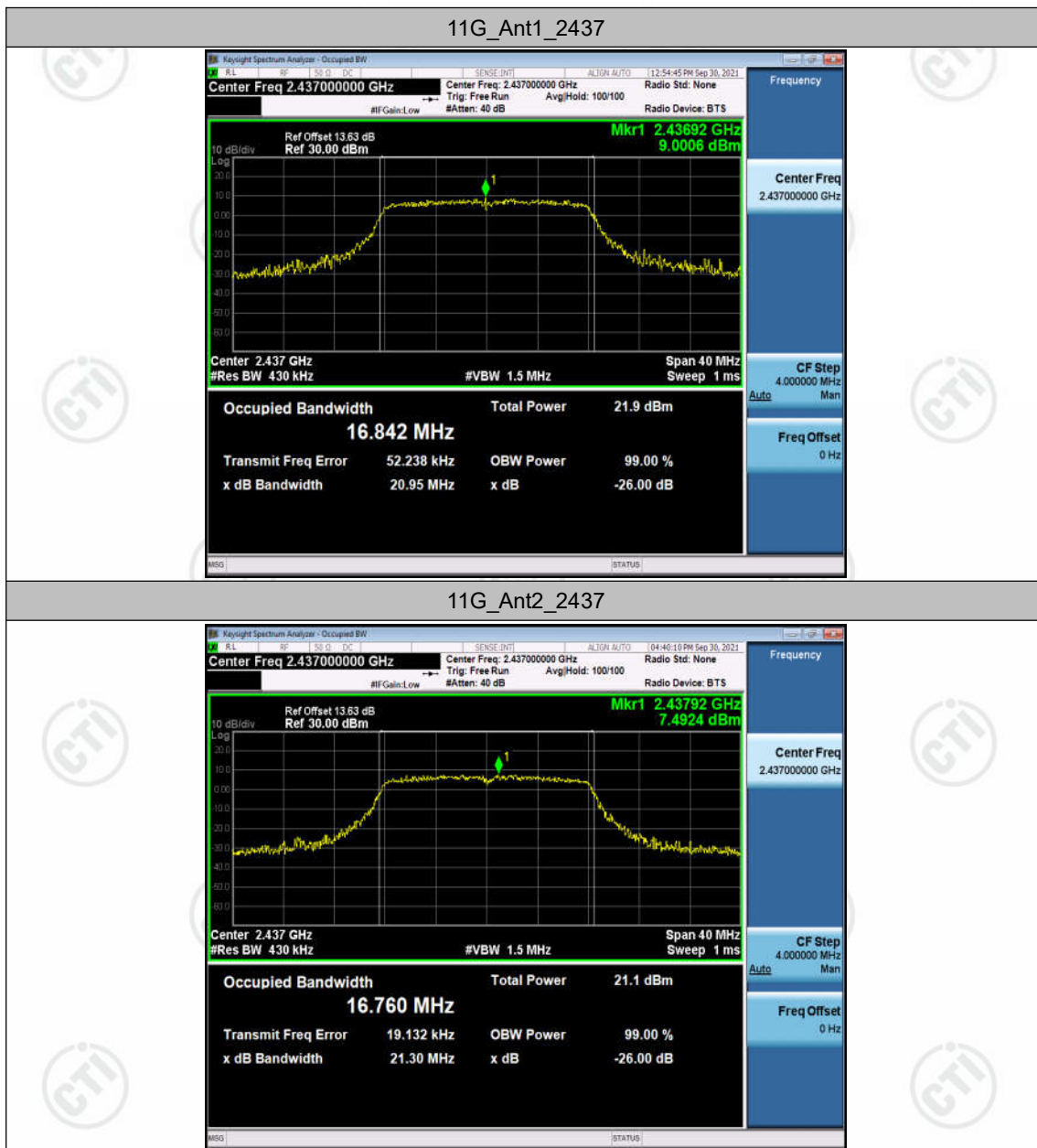
Test Graphs

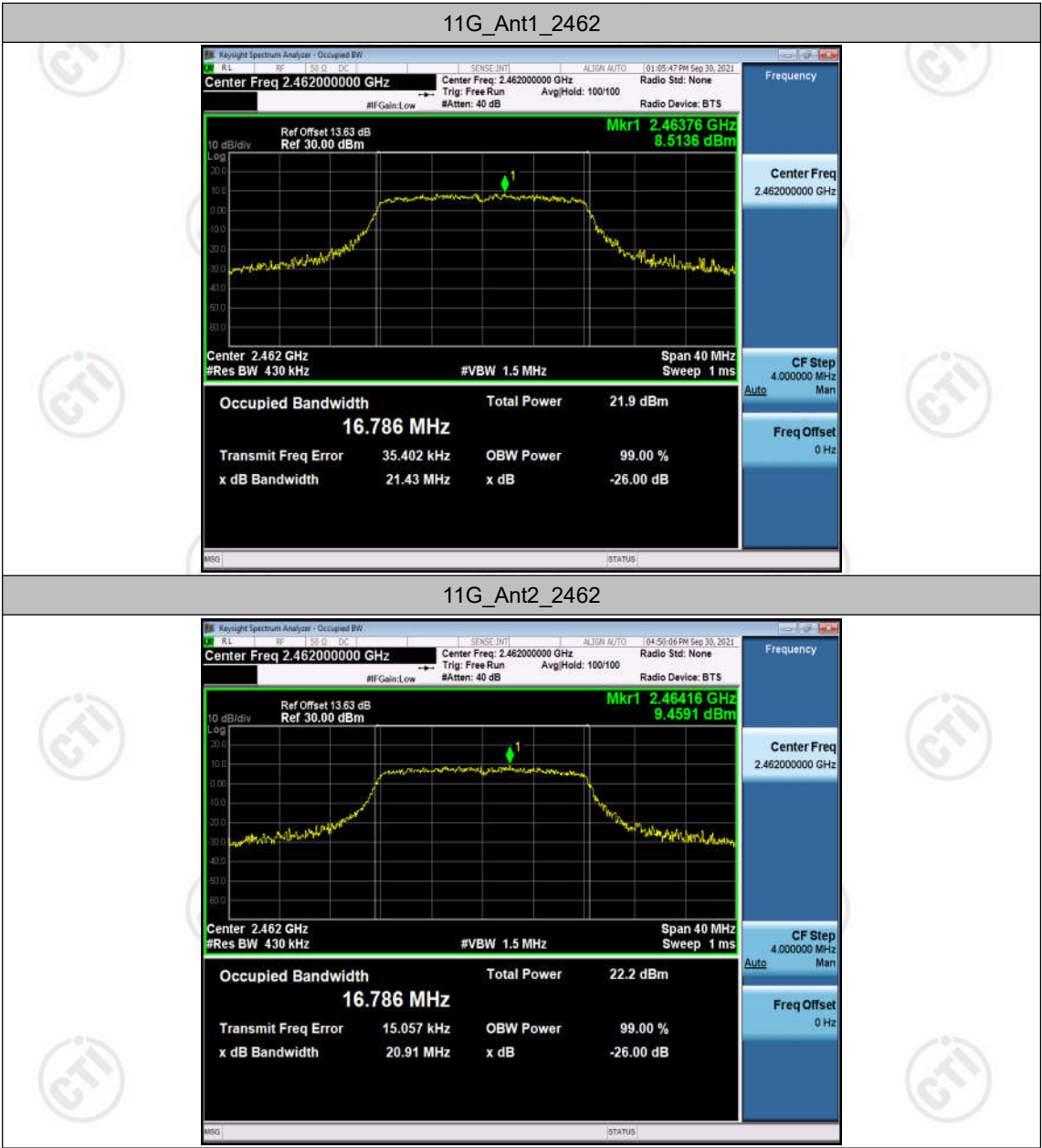


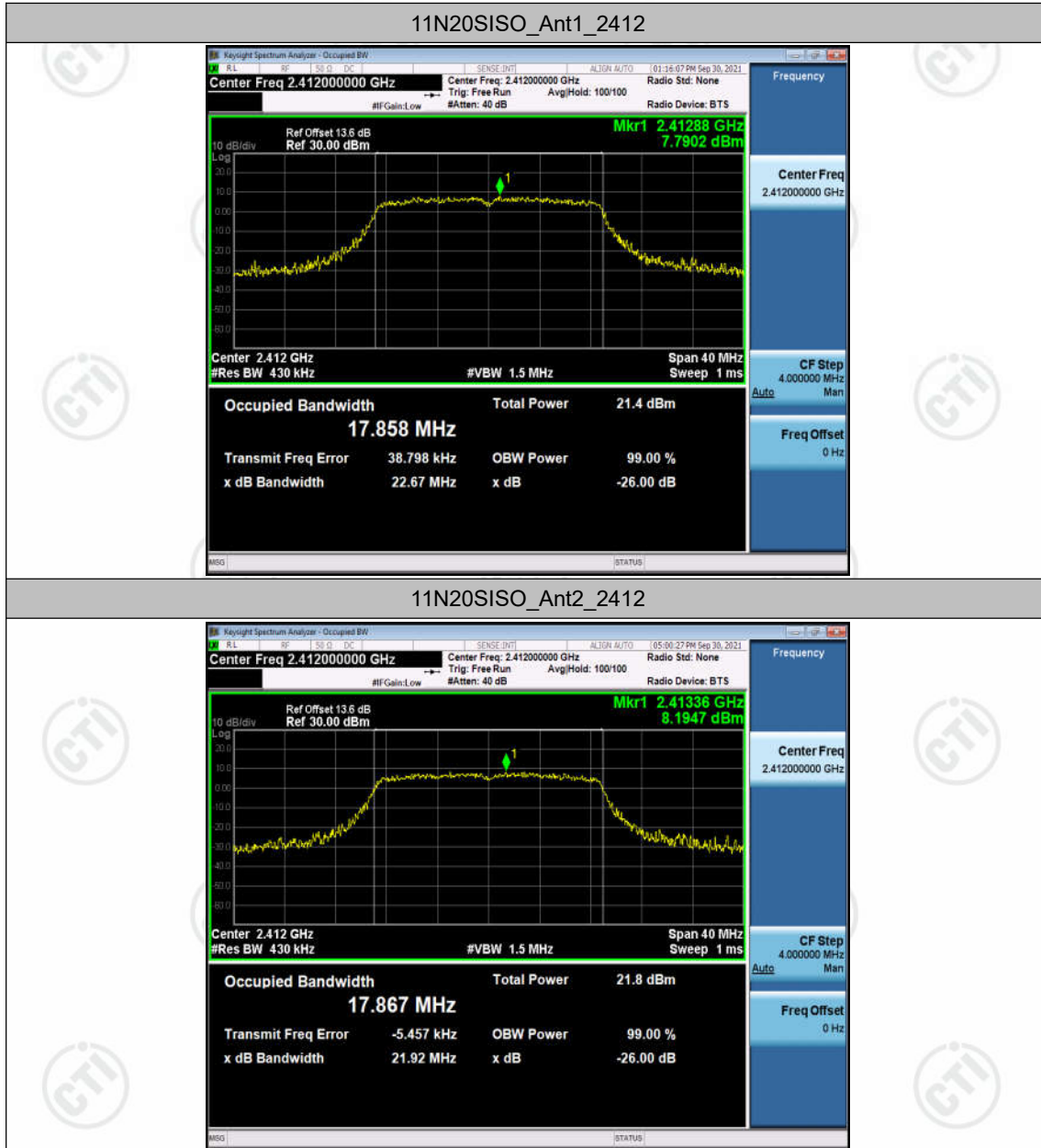


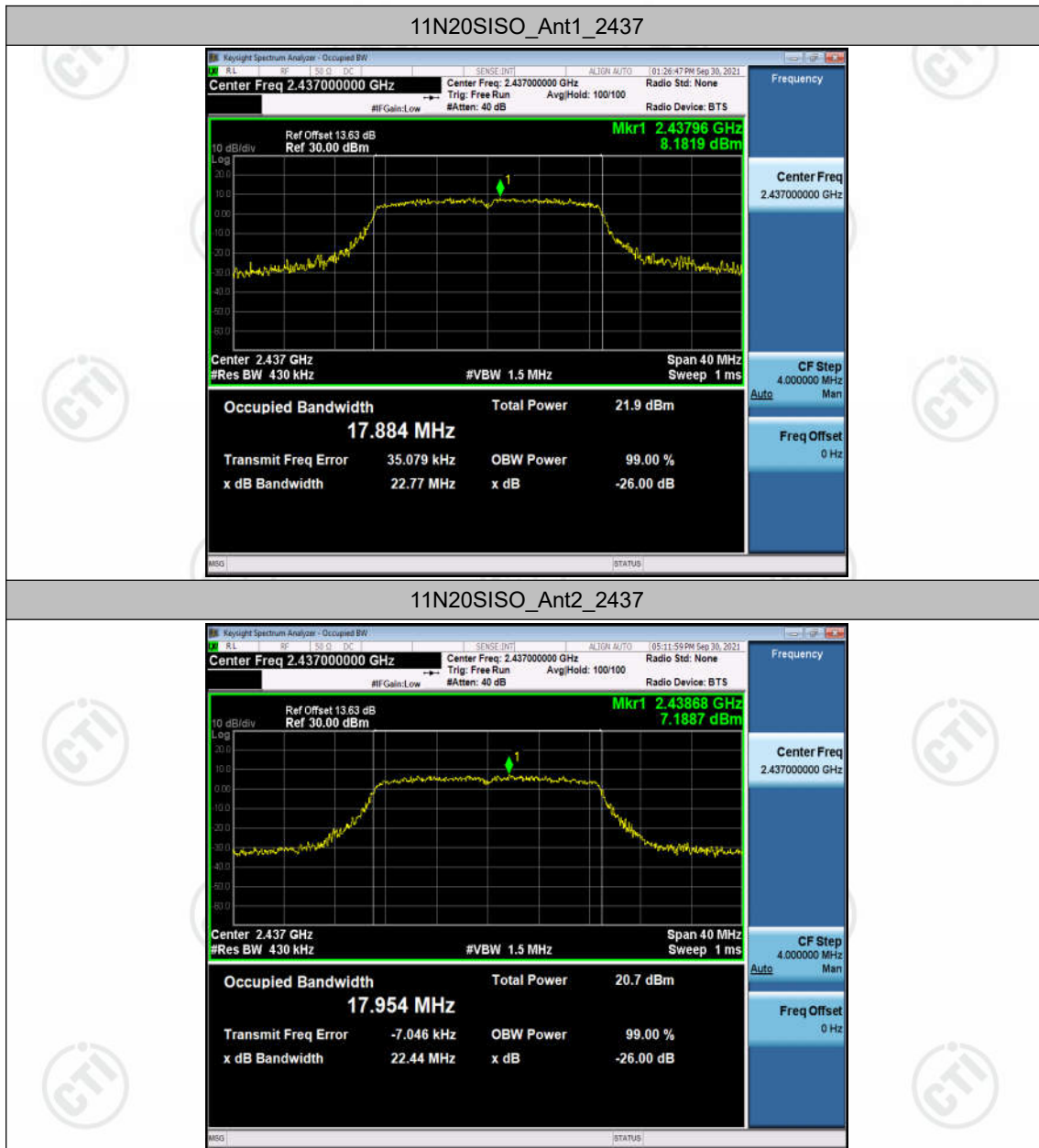


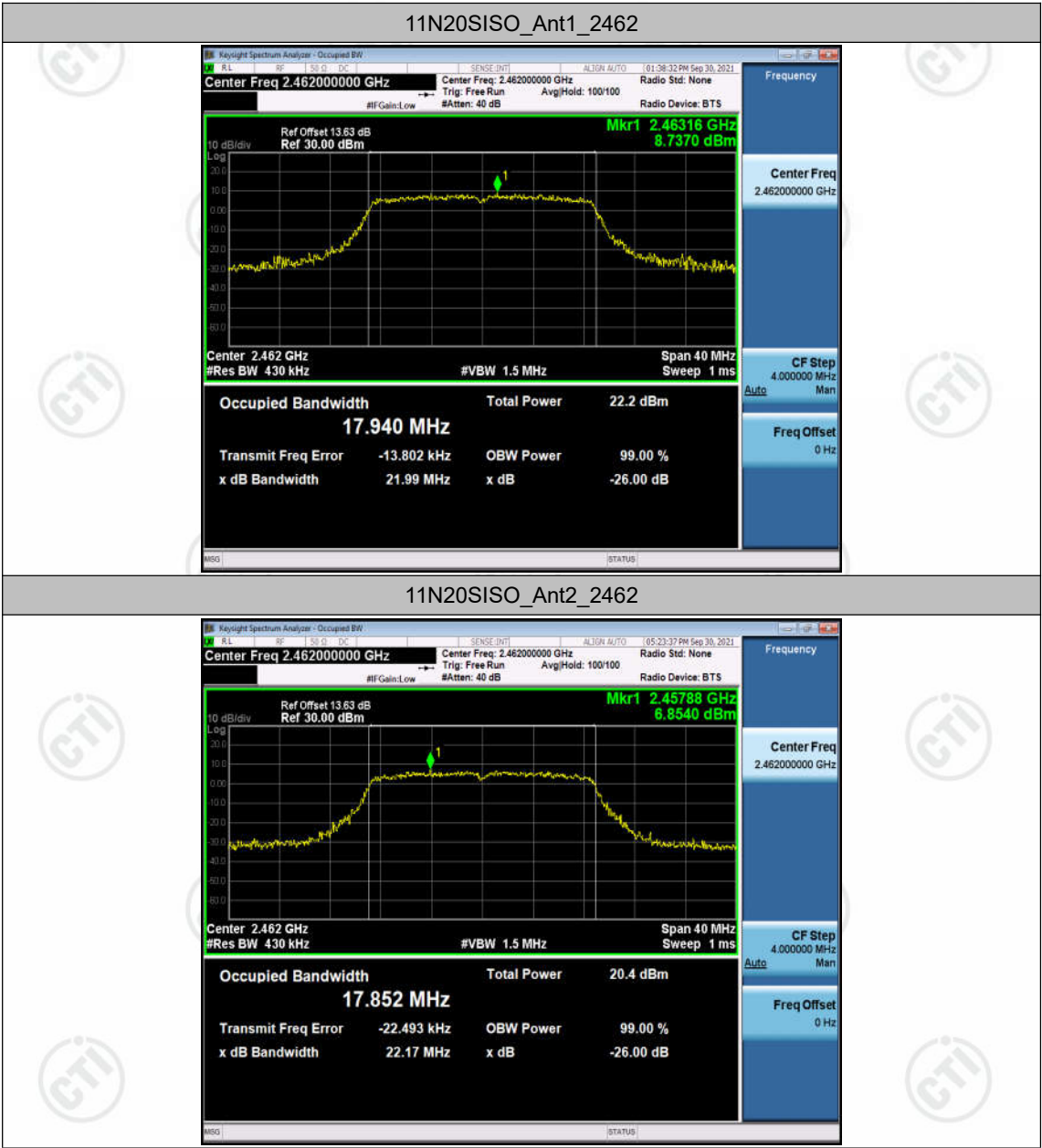


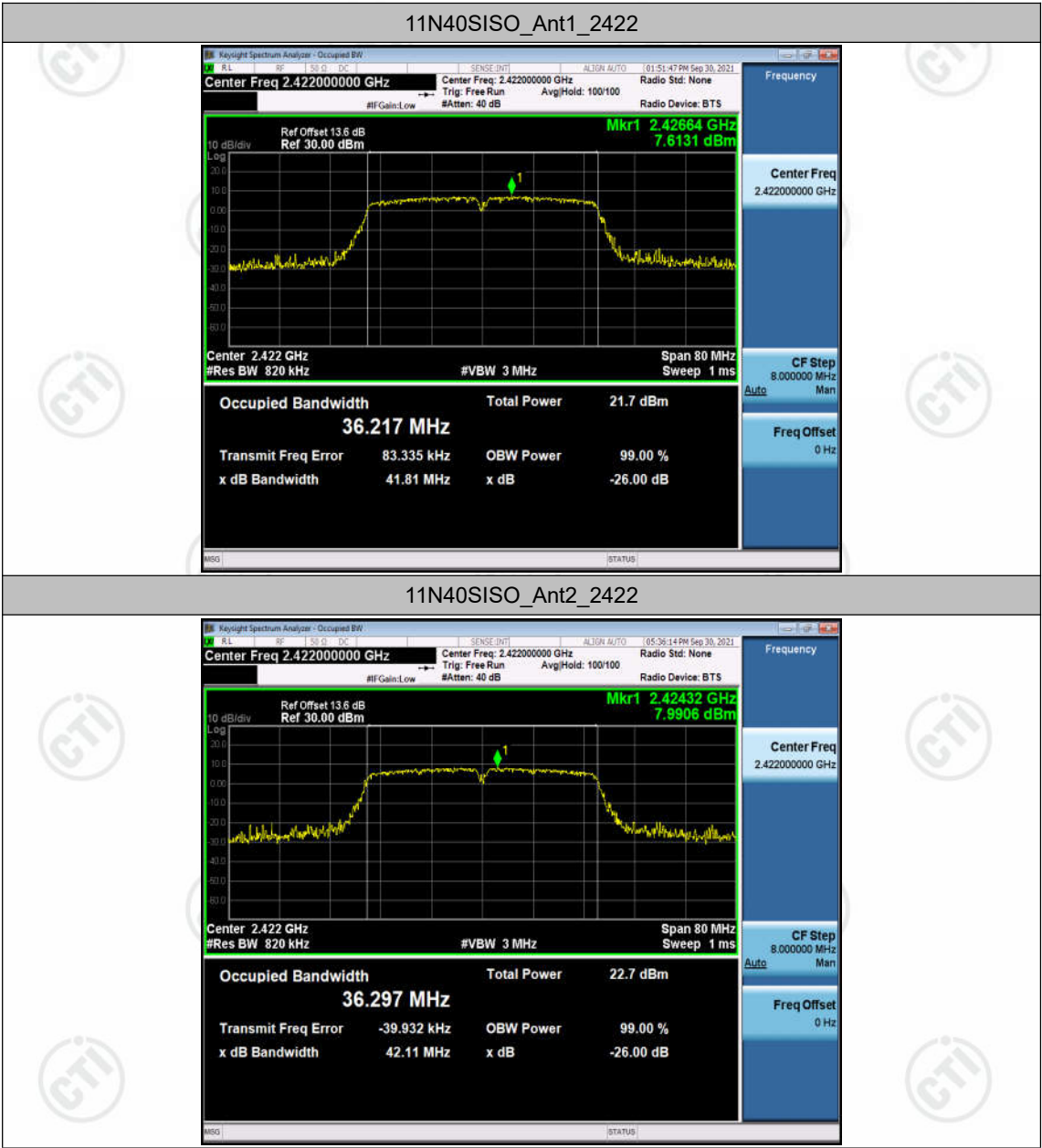


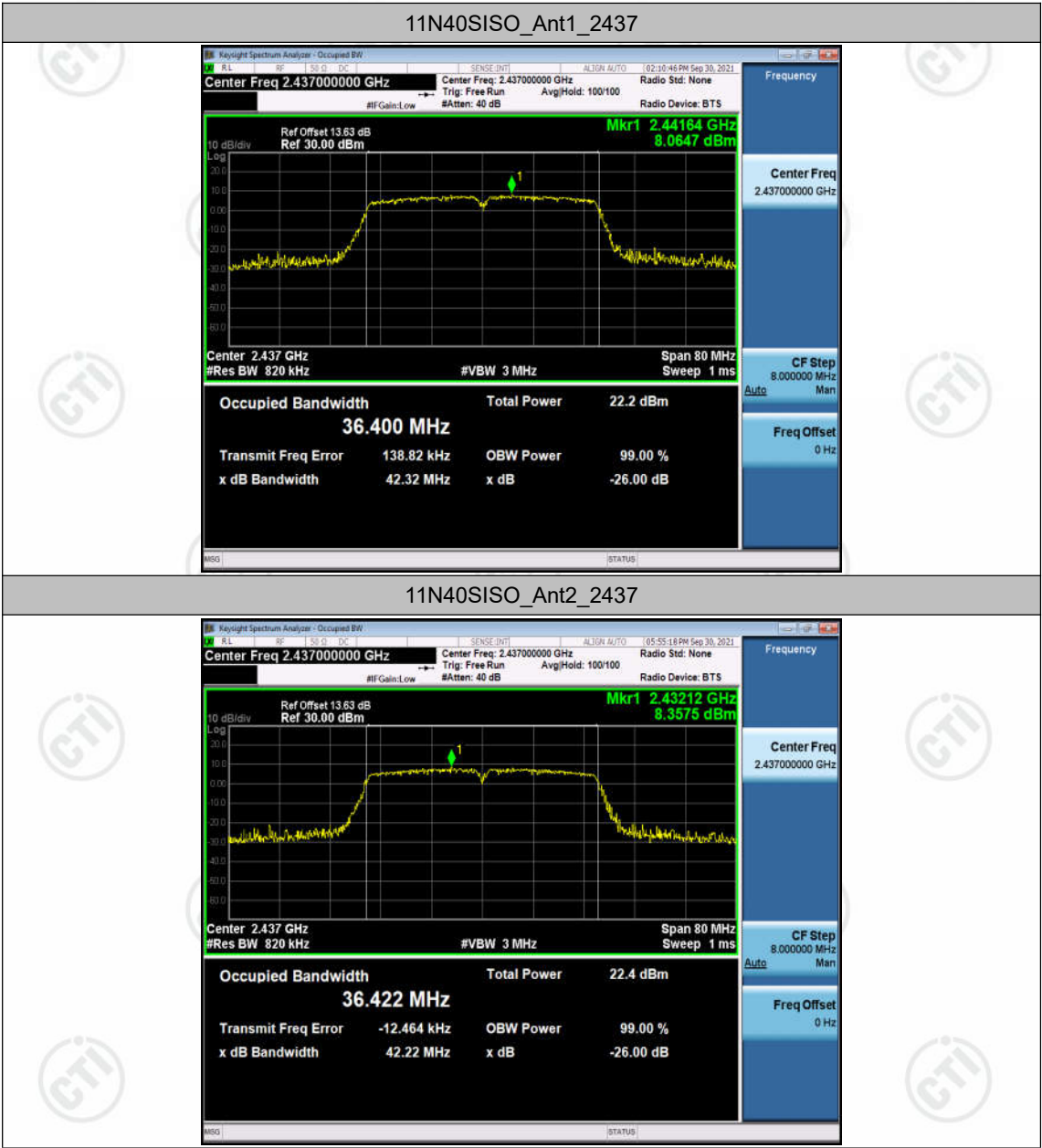


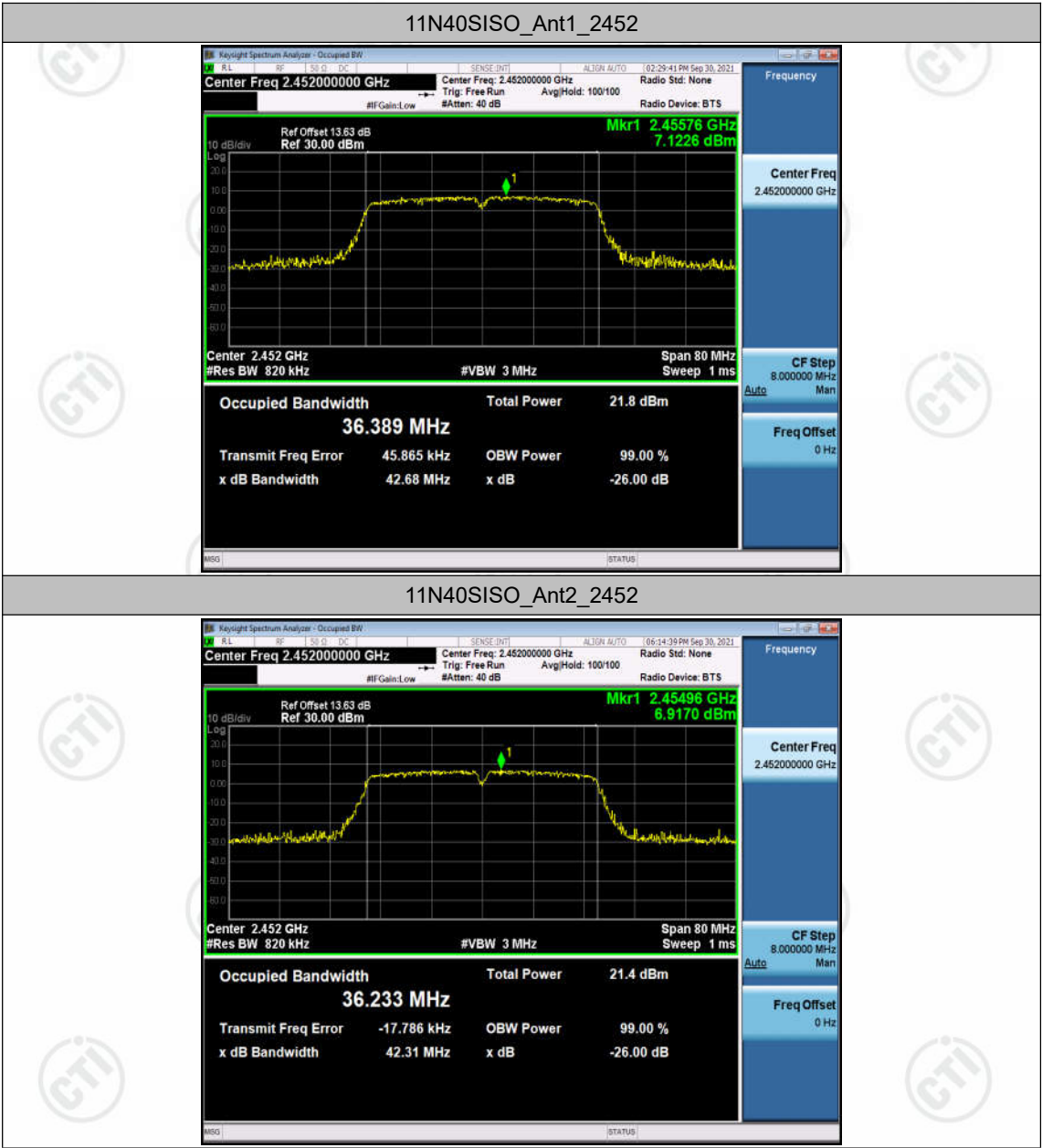












## AppendixC: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 15.23       | <=30       | PASS    |
|           | Ant2    | 2412    | 15.72       | <=30       | PASS    |
|           | Ant1    | 2437    | 15.95       | <=30       | PASS    |
|           | Ant2    | 2437    | 15.93       | <=30       | PASS    |
|           | Ant1    | 2462    | 15.96       | <=30       | PASS    |
|           | Ant2    | 2462    | 15.72       | <=30       | PASS    |
| 11G       | Ant1    | 2412    | 15.44       | <=30       | PASS    |
|           | Ant2    | 2412    | 15.43       | <=30       | PASS    |
|           | Ant1    | 2437    | 15.83       | <=30       | PASS    |
|           | Ant2    | 2437    | 15.24       | <=30       | PASS    |
|           | Ant1    | 2462    | 15.83       | <=30       | PASS    |
|           | Ant2    | 2462    | 15.77       | <=30       | PASS    |
| 11N20SISO | Ant1    | 2412    | 15.40       | <=30       | PASS    |
|           | Ant2    | 2412    | 15.92       | <=30       | PASS    |
|           | Ant1    | 2437    | 15.79       | <=30       | PASS    |
|           | Ant2    | 2437    | 15.55       | <=30       | PASS    |
|           | Ant1    | 2462    | 15.13       | <=30       | PASS    |
|           | Ant2    | 2462    | 15.36       | <=30       | PASS    |
| 11N40SISO | Ant1    | 2422    | 15.05       | <=30       | PASS    |
|           | Ant2    | 2422    | 15.89       | <=30       | PASS    |
|           | Ant1    | 2437    | 15.41       | <=30       | PASS    |
|           | Ant2    | 2437    | 15.67       | <=30       | PASS    |
|           | Ant1    | 2452    | 15.33       | <=30       | PASS    |
|           | Ant2    | 2452    | 15.66       | <=30       | PASS    |
| 11N20MIMO | Ant1    | 2412    | 9.62        | <=30       | PASS    |
|           | Ant2    | 2412    | 9.10        | <=30       | PASS    |
|           | total   | 2412    | 12.4        | <=28.91    | PASS    |
|           | Ant1    | 2437    | 9.99        | <=30       | PASS    |
|           | Ant2    | 2437    | 8.92        | <=30       | PASS    |
|           | total   | 2437    | 12.5        | <=28.91    | PASS    |
|           | Ant1    | 2462    | 9.82        | <=30       | PASS    |
|           | Ant2    | 2462    | 8.53        | <=30       | PASS    |
|           | total   | 2462    | 12.2        | <=28.91    | PASS    |
| 11N40MIMO | Ant1    | 2422    | 10.15       | <=30       | PASS    |

|  |       |      |       |         |      |
|--|-------|------|-------|---------|------|
|  | Ant2  | 2422 | 9.60  | <=30    | PASS |
|  | total | 2422 | 12.9  | <=28.91 | PASS |
|  | Ant1  | 2437 | 10.55 | <=30    | PASS |
|  | Ant2  | 2437 | 10.92 | <=30    | PASS |
|  | total | 2437 | 13.7  | <=28.91 | PASS |
|  | Ant1  | 2452 | 10.74 | <=30    | PASS |
|  | Ant2  | 2452 | 10.26 | <=30    | PASS |
|  | total | 2452 | 13.5  | <=28.91 | PASS |

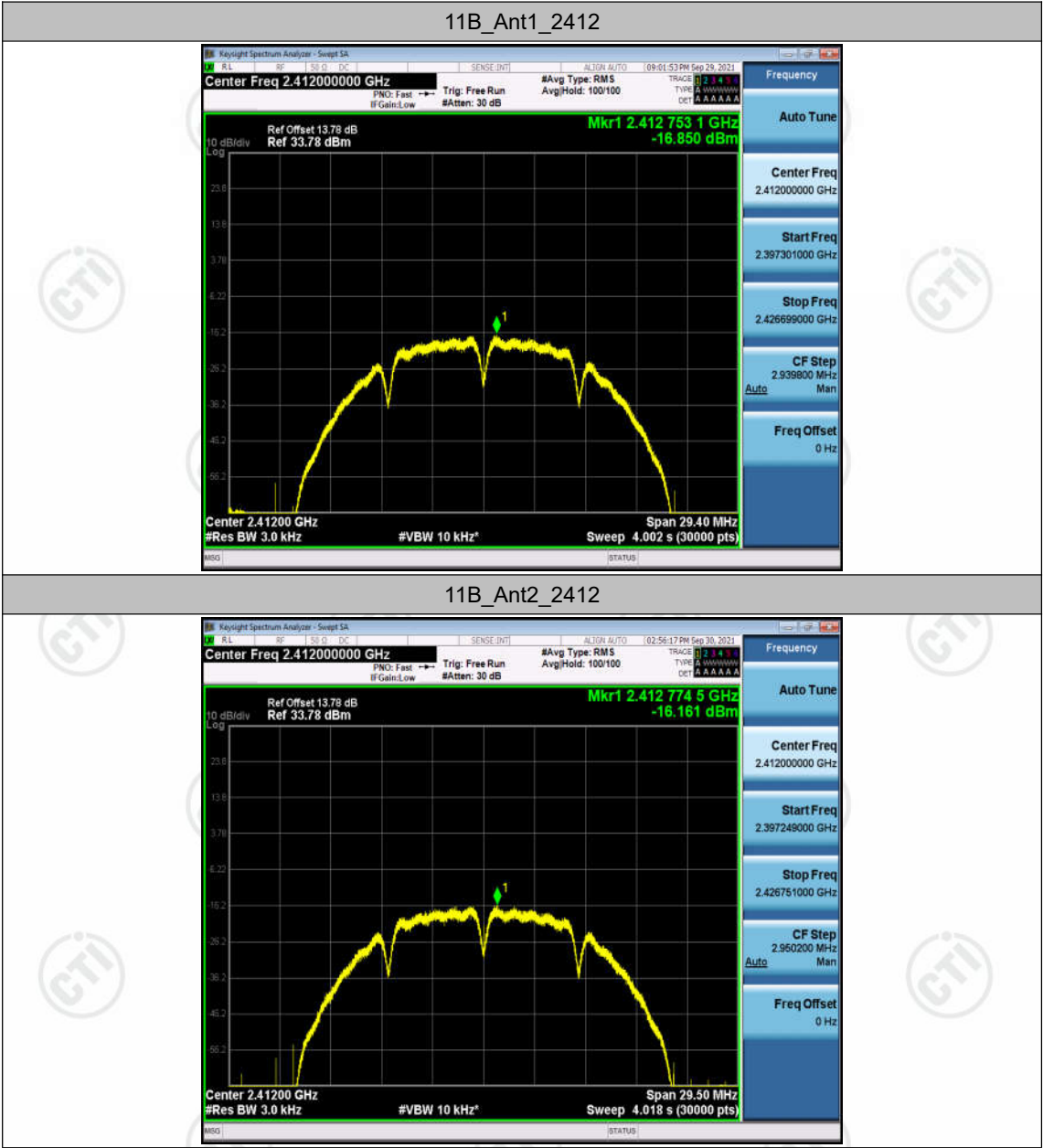
## AppendixD: Maximum power spectral density

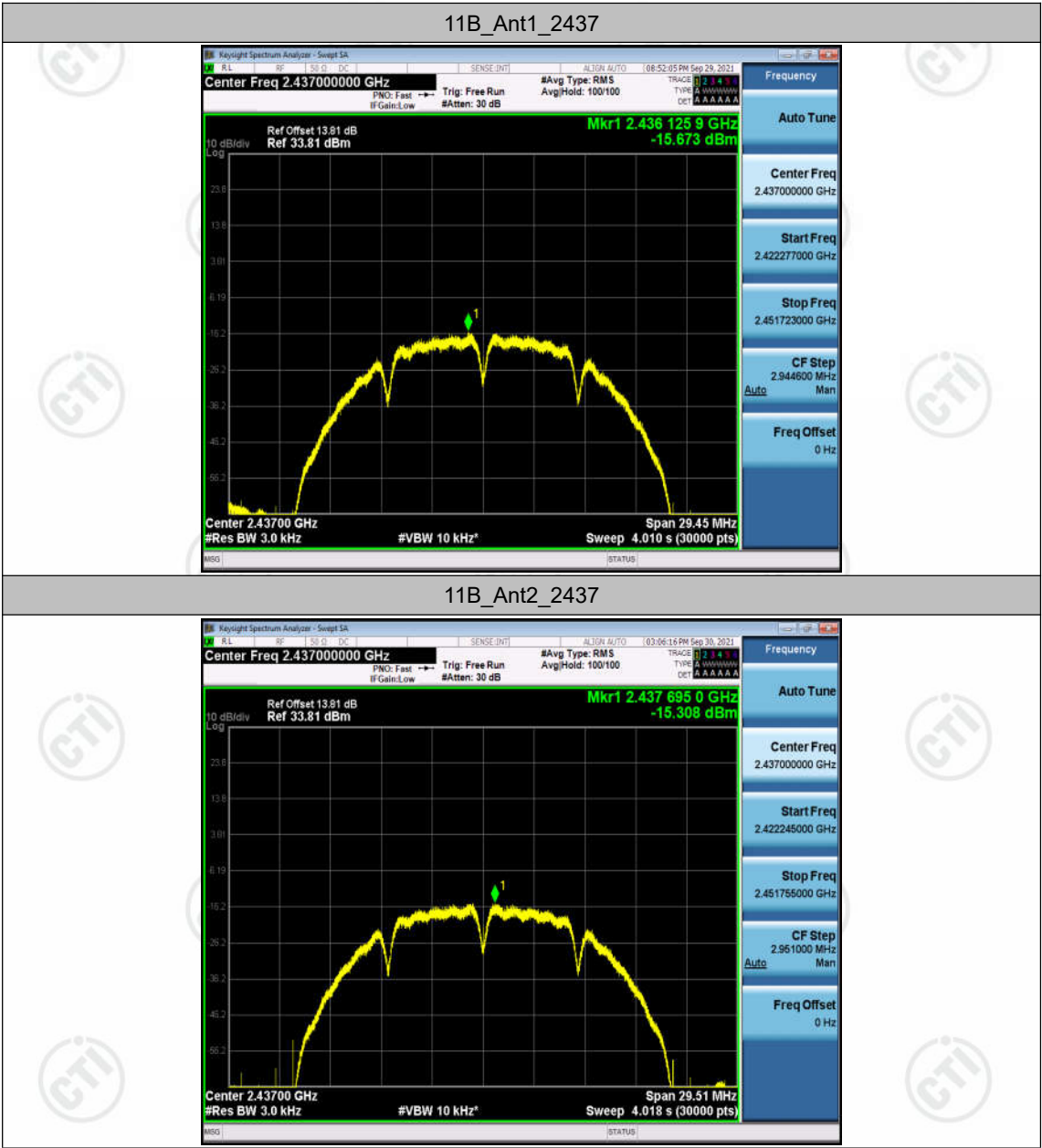
### Test Result

| Test Mode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -16.85               | $\leq 8$        | PASS    |
|           | Ant2    | 2412    | -16.16               | $\leq 8$        | PASS    |
|           | Ant1    | 2437    | -15.67               | $\leq 8$        | PASS    |
|           | Ant2    | 2437    | -15.31               | $\leq 8$        | PASS    |
|           | Ant1    | 2462    | -16.06               | $\leq 8$        | PASS    |
|           | Ant2    | 2462    | -15.03               | $\leq 8$        | PASS    |
| 11G       | Ant1    | 2412    | -15.62               | $\leq 8$        | PASS    |
|           | Ant2    | 2412    | -15.67               | $\leq 8$        | PASS    |
|           | Ant1    | 2437    | -15.67               | $\leq 8$        | PASS    |
|           | Ant2    | 2437    | -16.47               | $\leq 8$        | PASS    |
|           | Ant1    | 2462    | -15.29               | $\leq 8$        | PASS    |
|           | Ant2    | 2462    | -14.39               | $\leq 8$        | PASS    |
| 11N20SISO | Ant1    | 2412    | -15.06               | $\leq 8$        | PASS    |
|           | Ant2    | 2412    | -15.35               | $\leq 8$        | PASS    |
|           | Ant1    | 2437    | -15.3                | $\leq 8$        | PASS    |
|           | Ant2    | 2437    | -16.37               | $\leq 8$        | PASS    |
|           | Ant1    | 2462    | -15.52               | $\leq 8$        | PASS    |
|           | Ant2    | 2462    | -17.08               | $\leq 8$        | PASS    |
| 11N40SISO | Ant1    | 2422    | -17.73               | $\leq 8$        | PASS    |
|           | Ant2    | 2422    | -16.58               | $\leq 8$        | PASS    |
|           | Ant1    | 2437    | -17.09               | $\leq 8$        | PASS    |
|           | Ant2    | 2437    | -16.83               | $\leq 8$        | PASS    |
|           | Ant1    | 2452    | -17.47               | $\leq 8$        | PASS    |
|           | Ant2    | 2452    | -17.87               | $\leq 8$        | PASS    |
| 11N20MIMO | Ant1    | 2412    | -21.06               | $\leq 8$        | PASS    |
|           | Ant2    | 2412    | -21.68               | $\leq 8$        | PASS    |
|           | total   | 2412    | -18.35               | $\leq 6.91$     | PASS    |
|           | Ant1    | 2437    | -21.49               | $\leq 8$        | PASS    |
|           | Ant2    | 2437    | -21.96               | $\leq 8$        | PASS    |
|           | total   | 2437    | -18.71               | $\leq 6.91$     | PASS    |
|           | Ant1    | 2462    | -21.24               | $\leq 8$        | PASS    |
|           | Ant2    | 2462    | -23.01               | $\leq 8$        | PASS    |
|           | total   | 2462    | -19.03               | $\leq 6.91$     | PASS    |
| 11N40MIMO | Ant1    | 2422    | -22.58               | $\leq 8$        | PASS    |

|  |       |      |        |        |      |
|--|-------|------|--------|--------|------|
|  | Ant2  | 2422 | -23.88 | <=8    | PASS |
|  | total | 2422 | -20.17 | <=6.91 | PASS |
|  | Ant1  | 2437 | -22.46 | <=8    | PASS |
|  | Ant2  | 2437 | -21.51 | <=8    | PASS |
|  | total | 2437 | -18.95 | <=6.91 | PASS |
|  | Ant1  | 2452 | -21.94 | <=8    | PASS |
|  | Ant2  | 2452 | -22.63 | <=8    | PASS |
|  | total | 2452 | -19.26 | <=6.91 | PASS |

Test Graphs



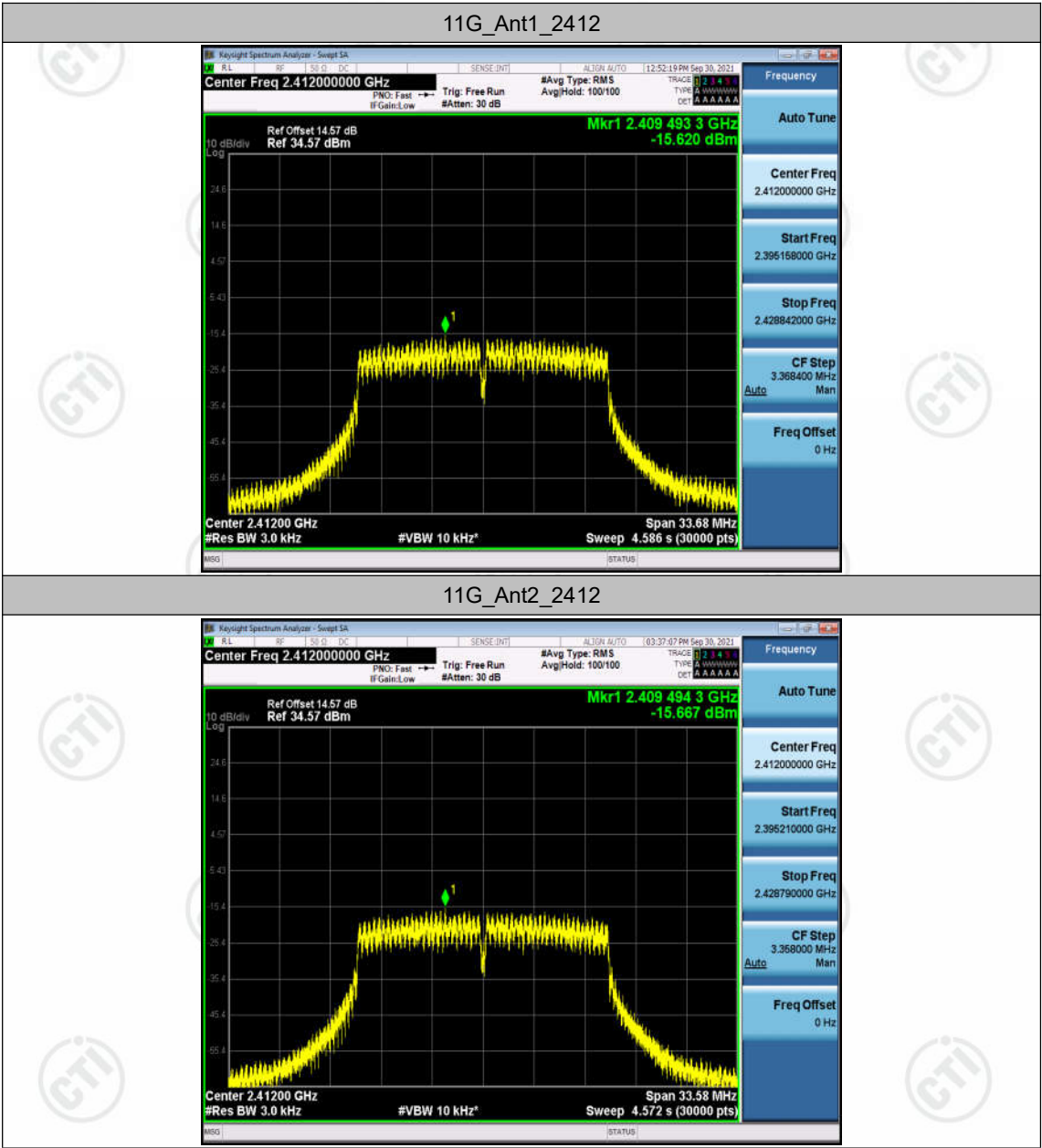


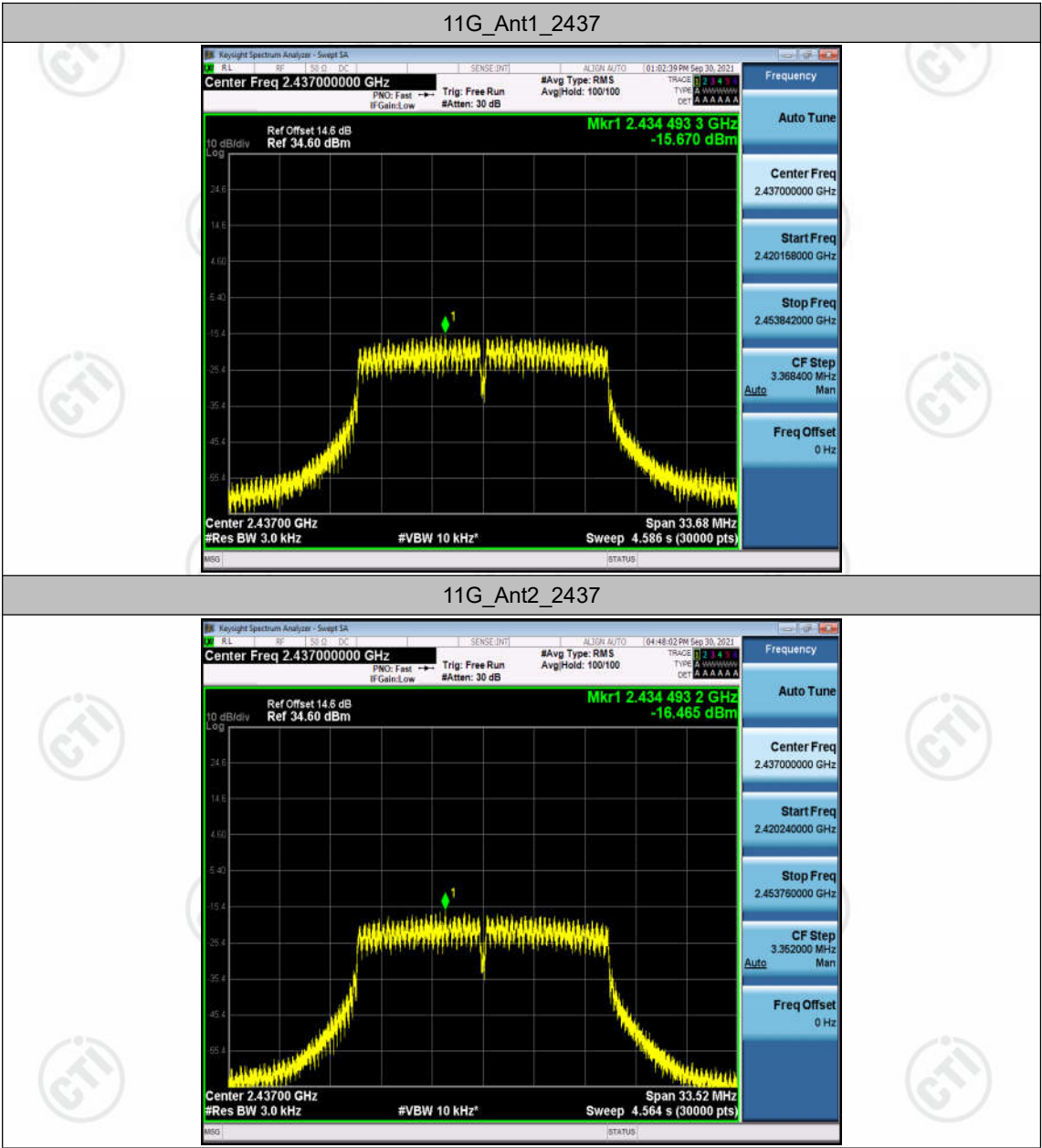
11B\_Ant1\_2462

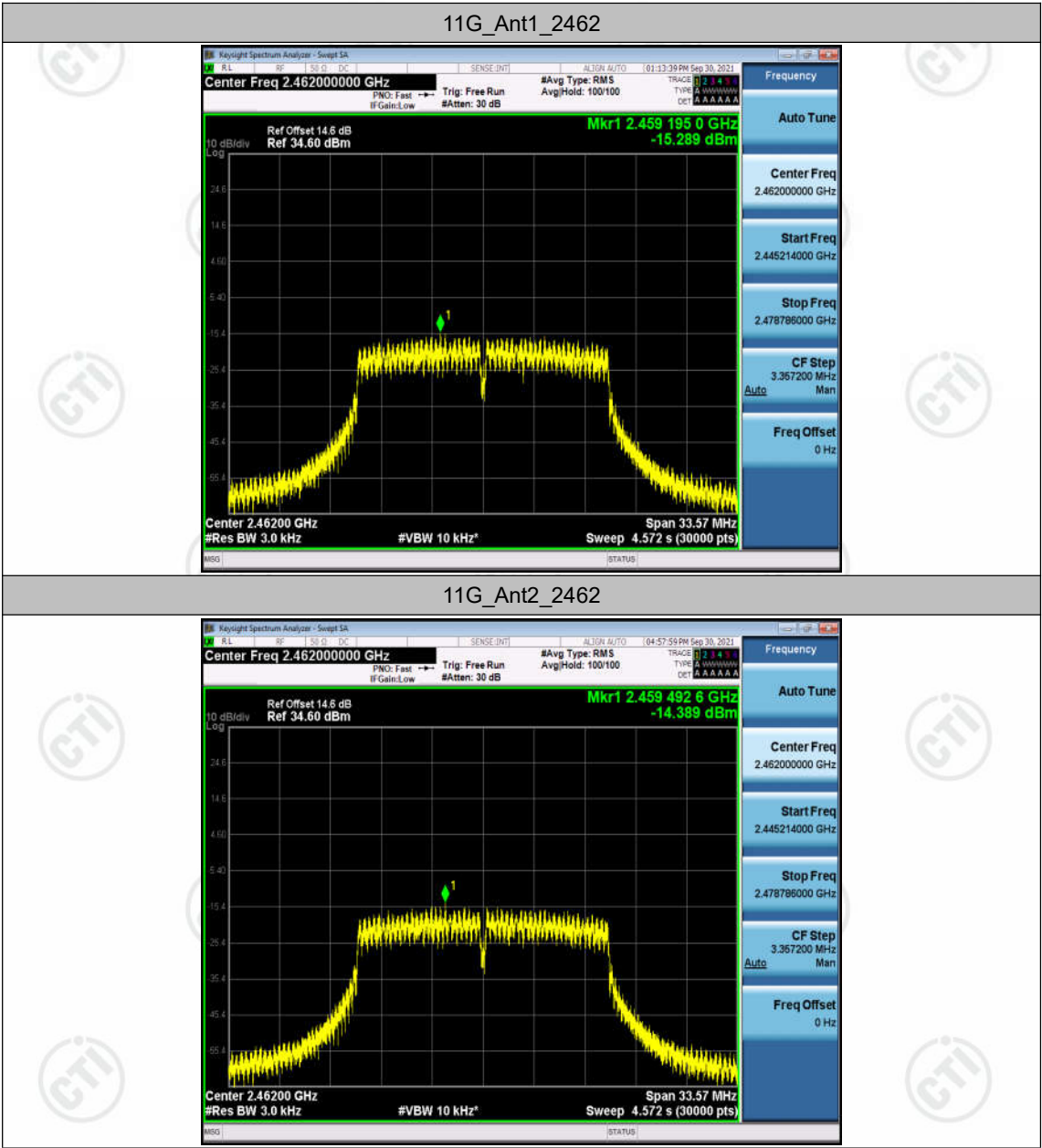


11B\_Ant2\_2462

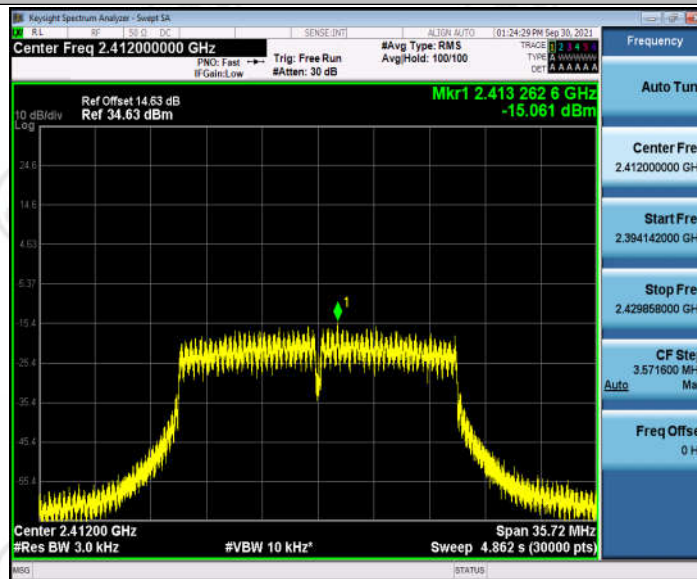




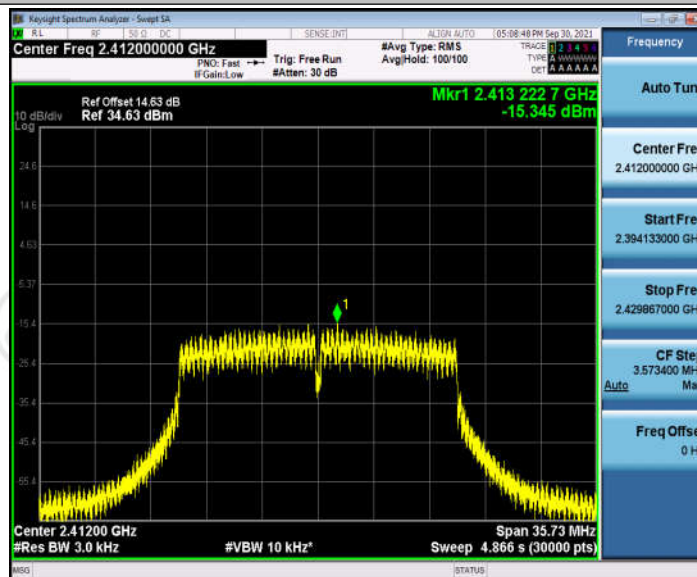


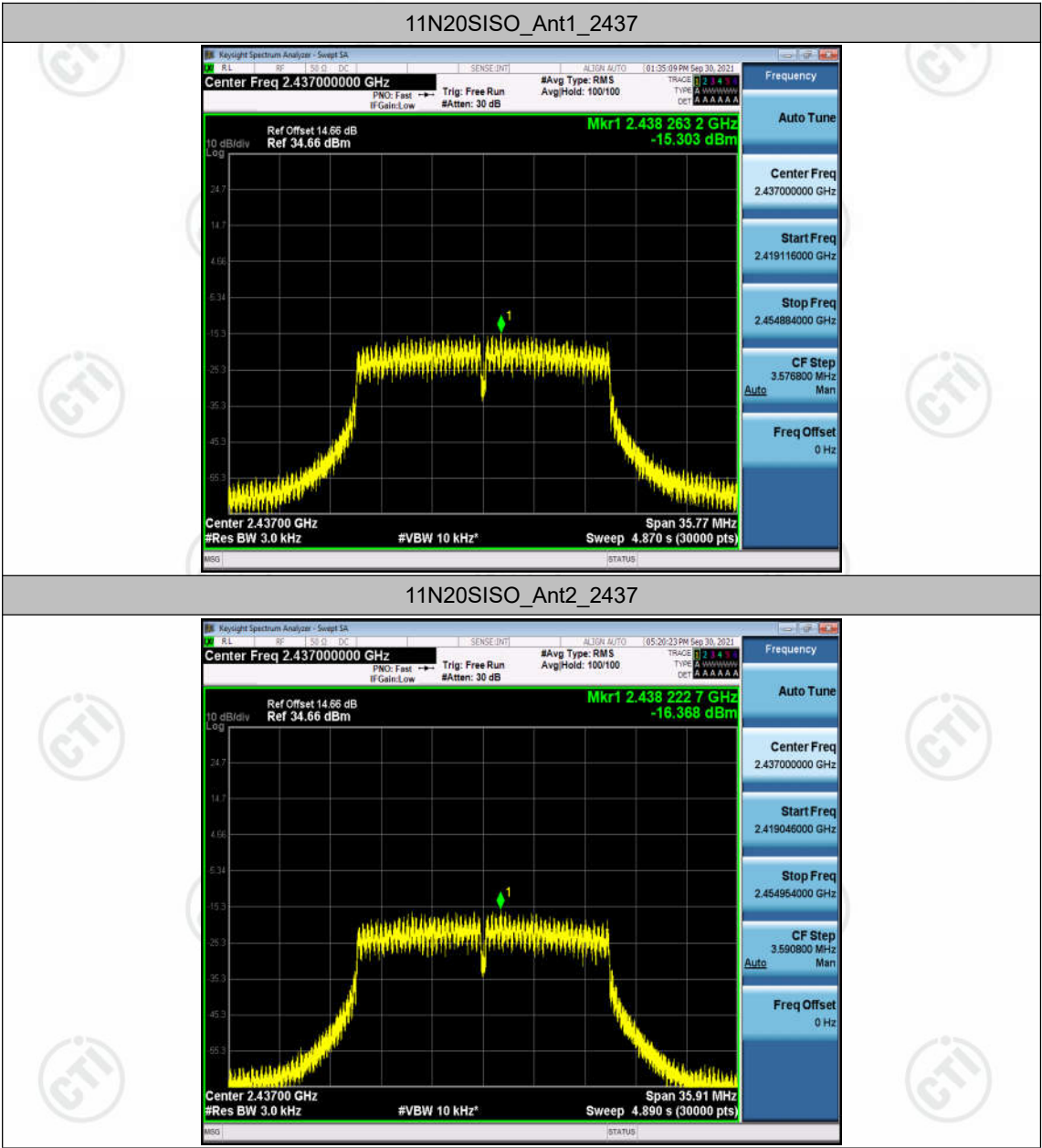


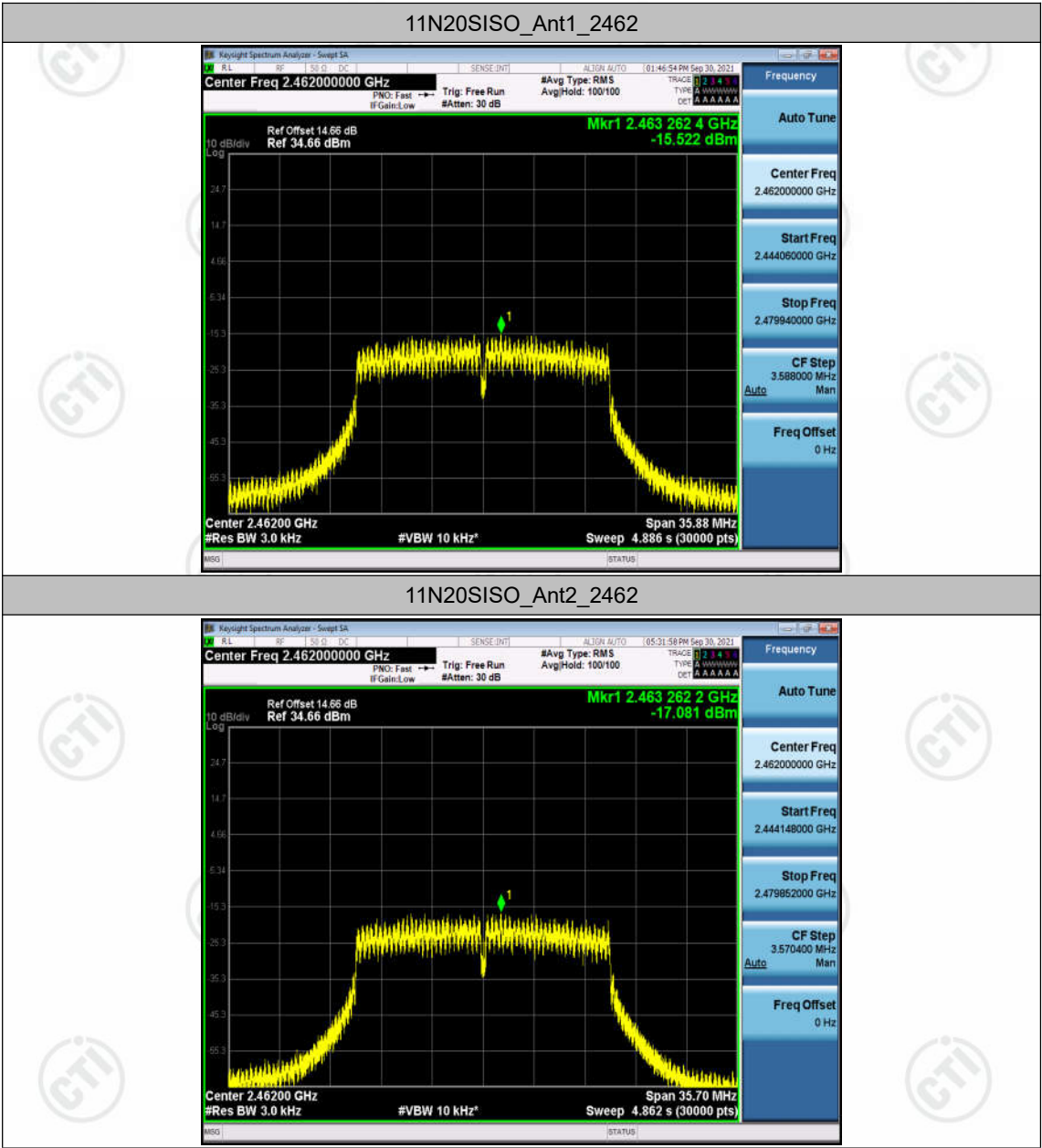
11N20SISO\_Ant1\_2412

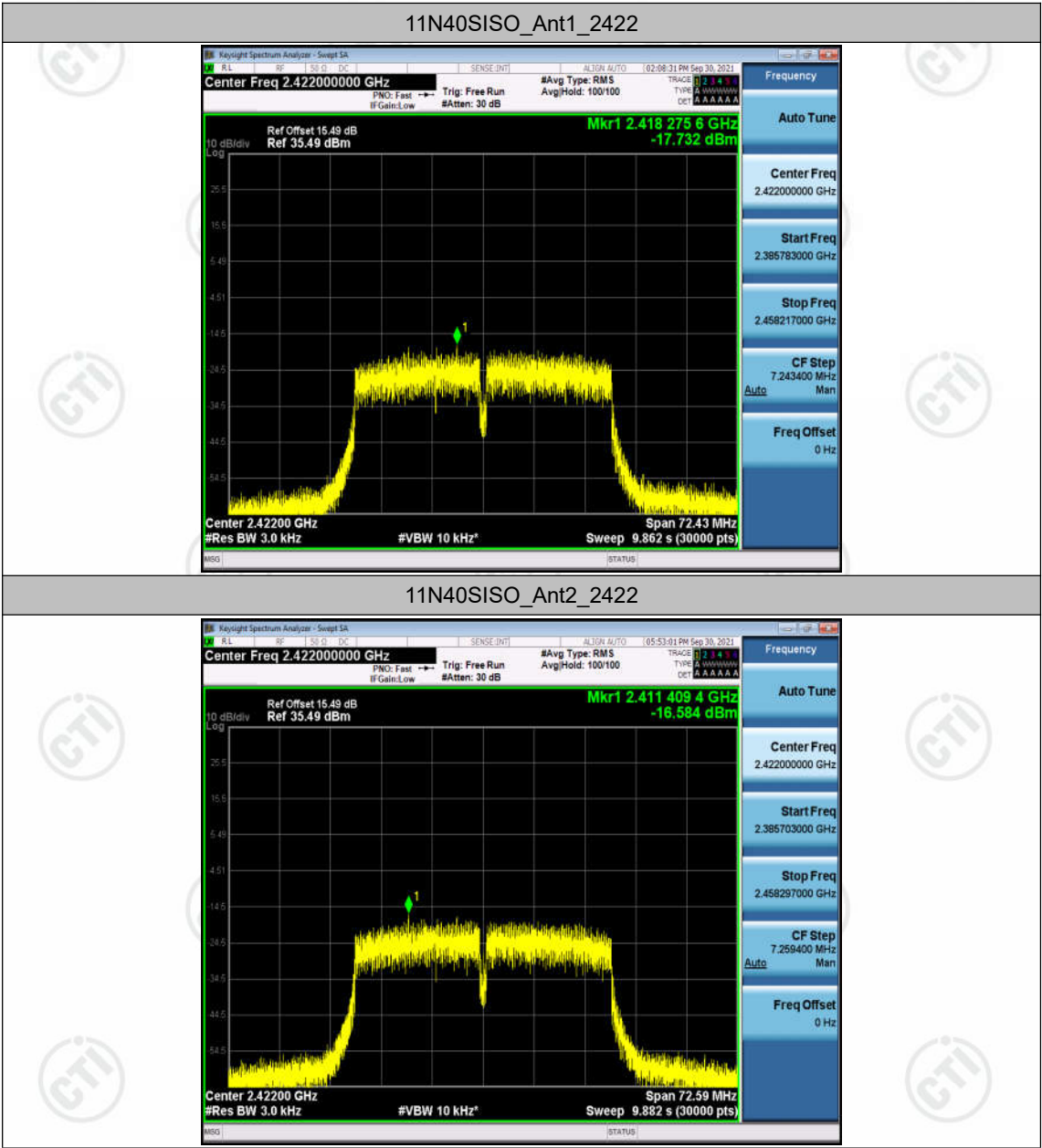


11N20SISO\_Ant2\_2412

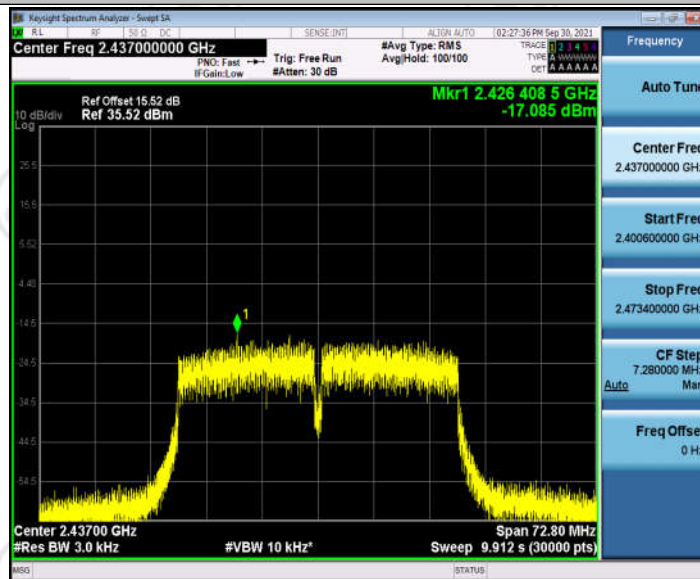




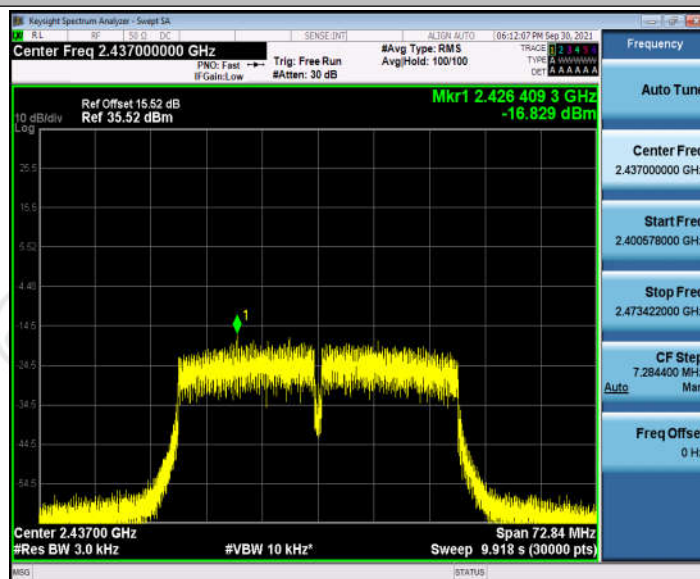


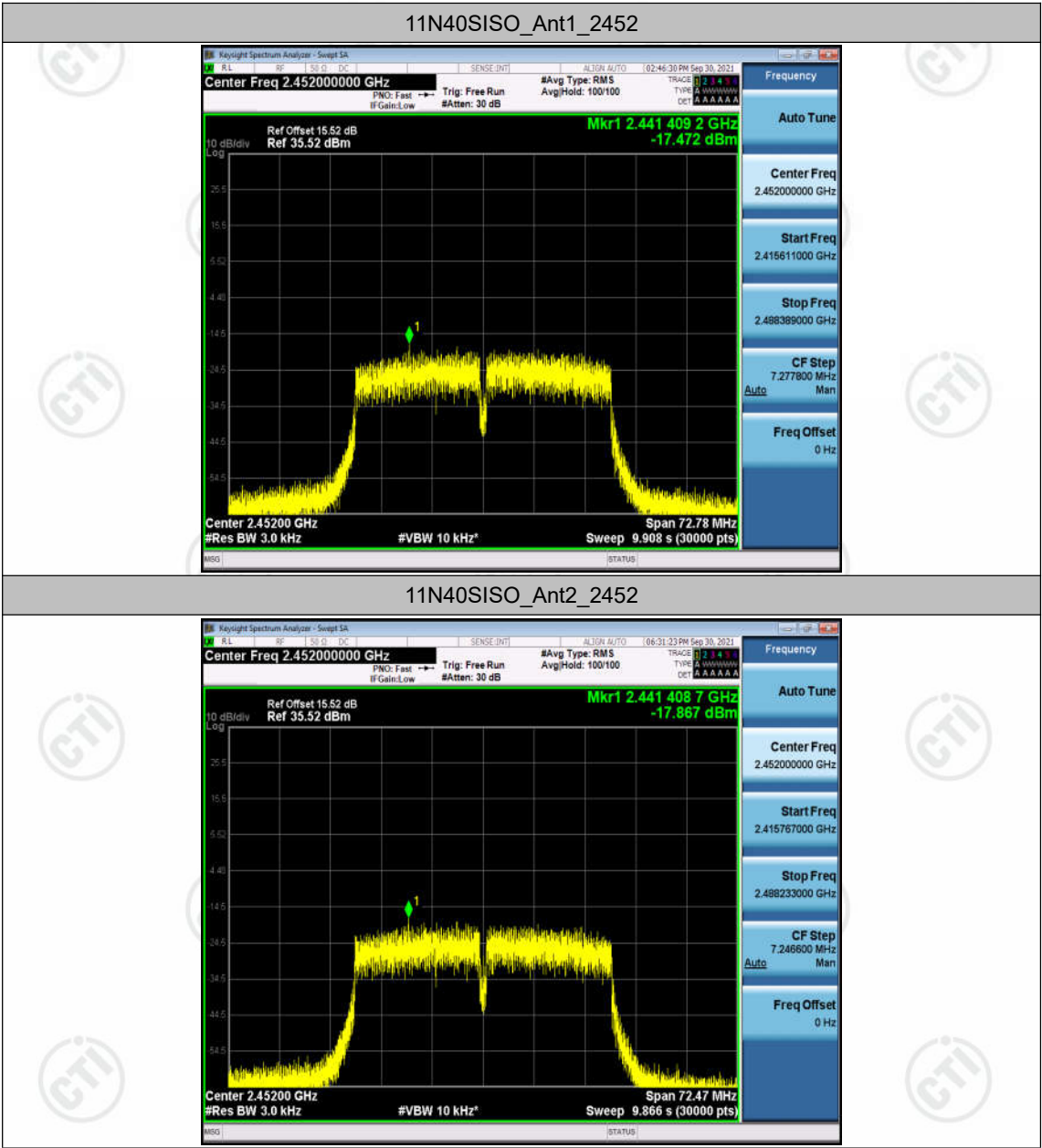


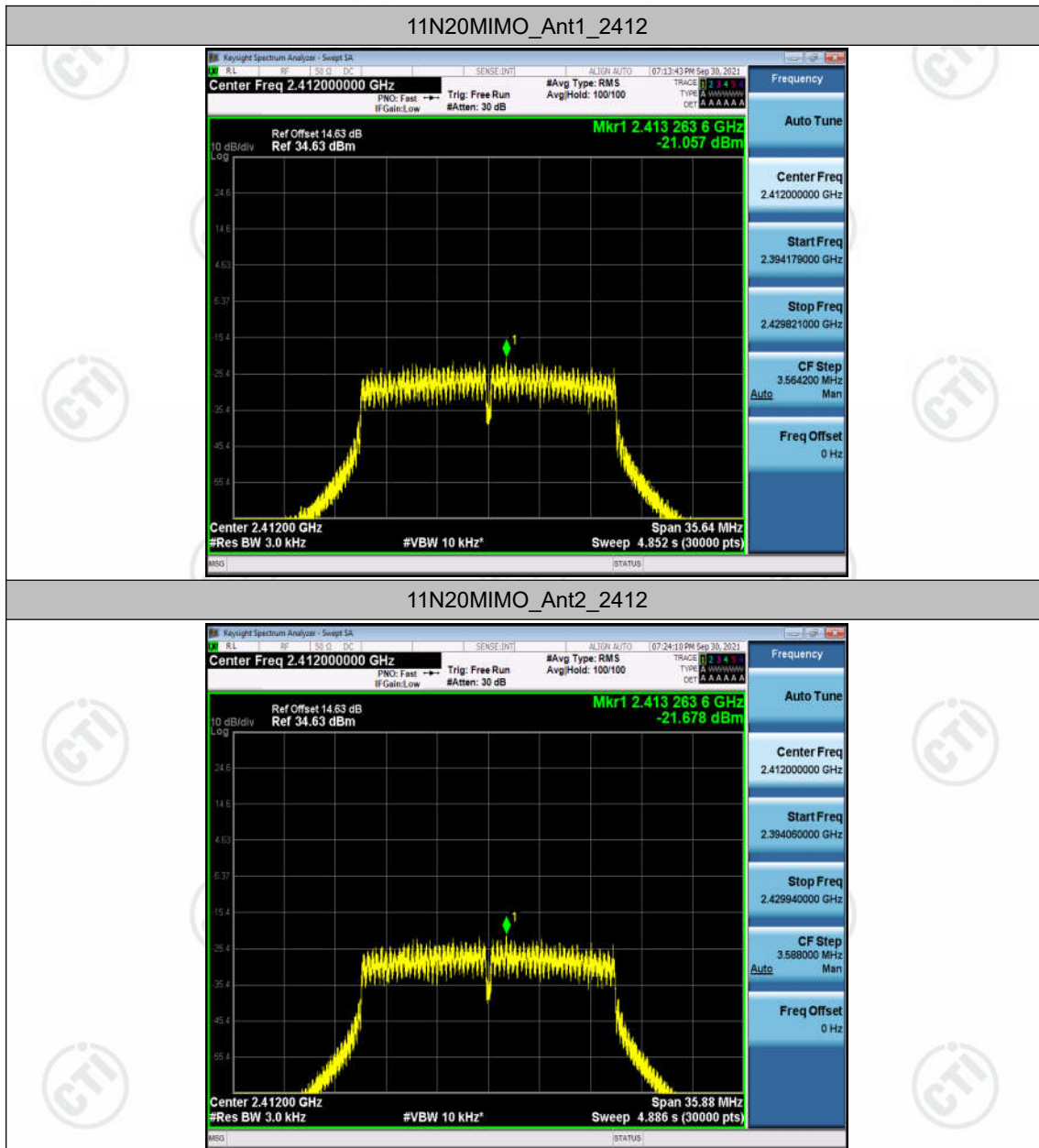
11N40SISO\_Ant1\_2437

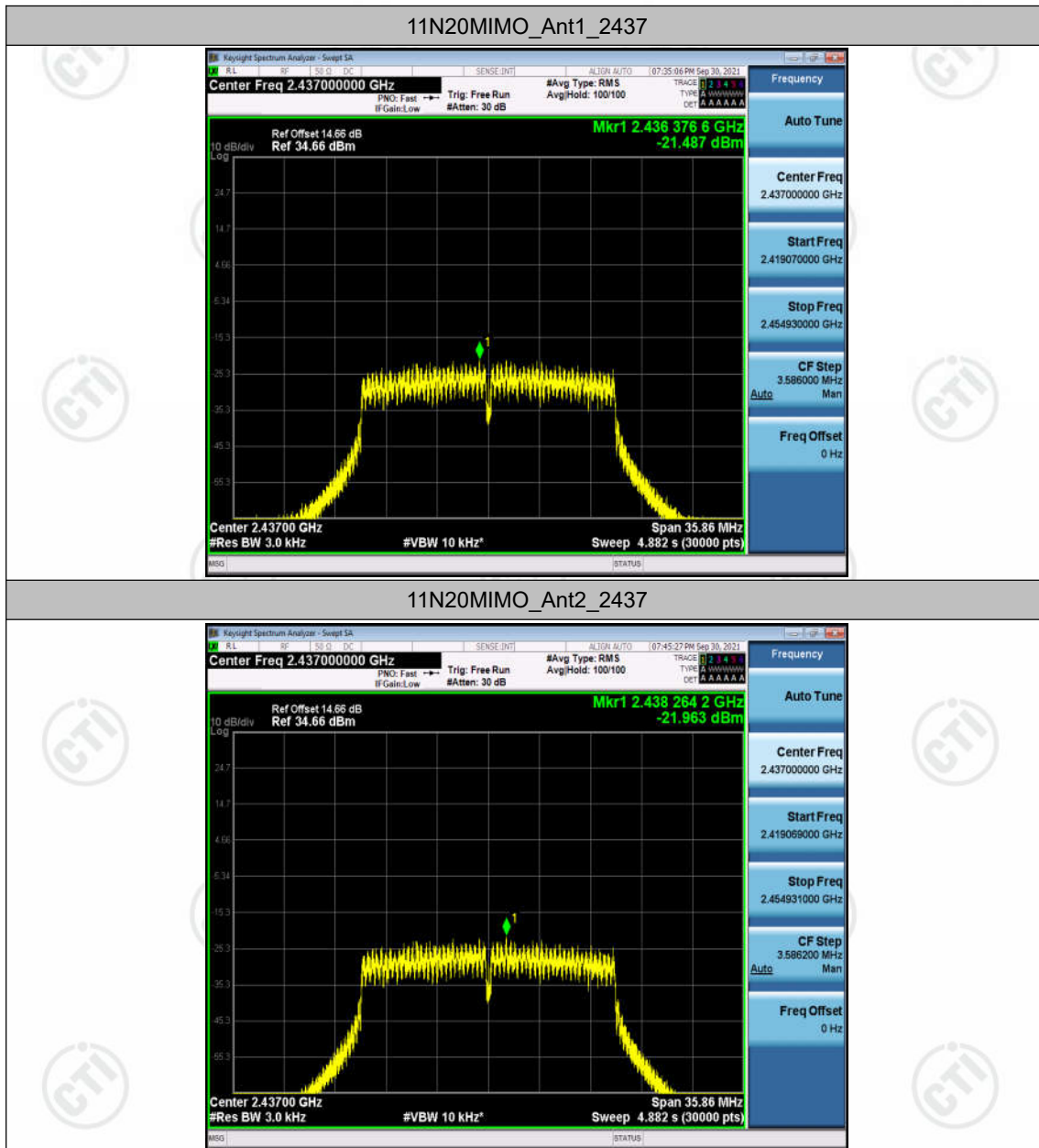


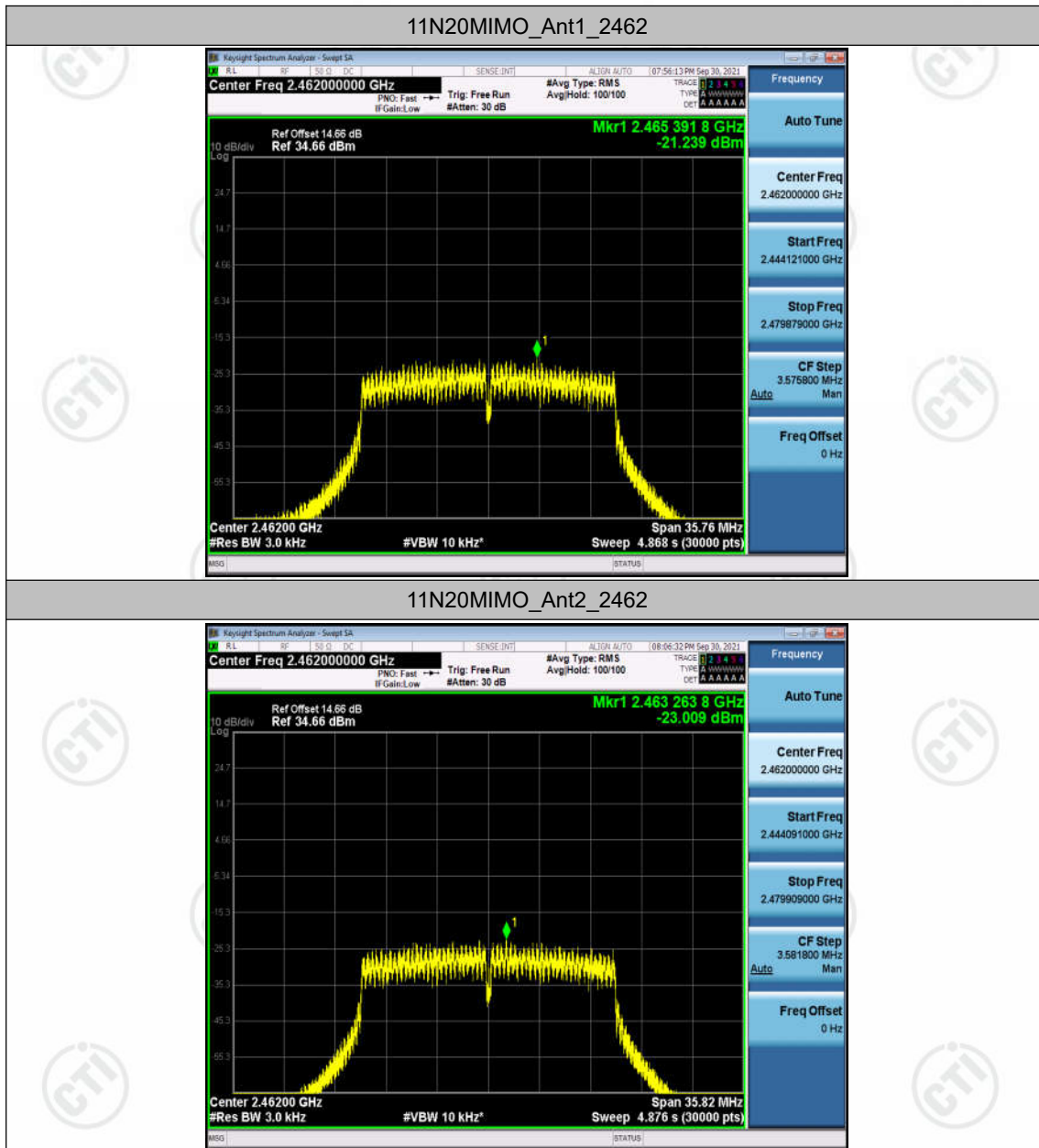
11N40SISO\_Ant2\_2437

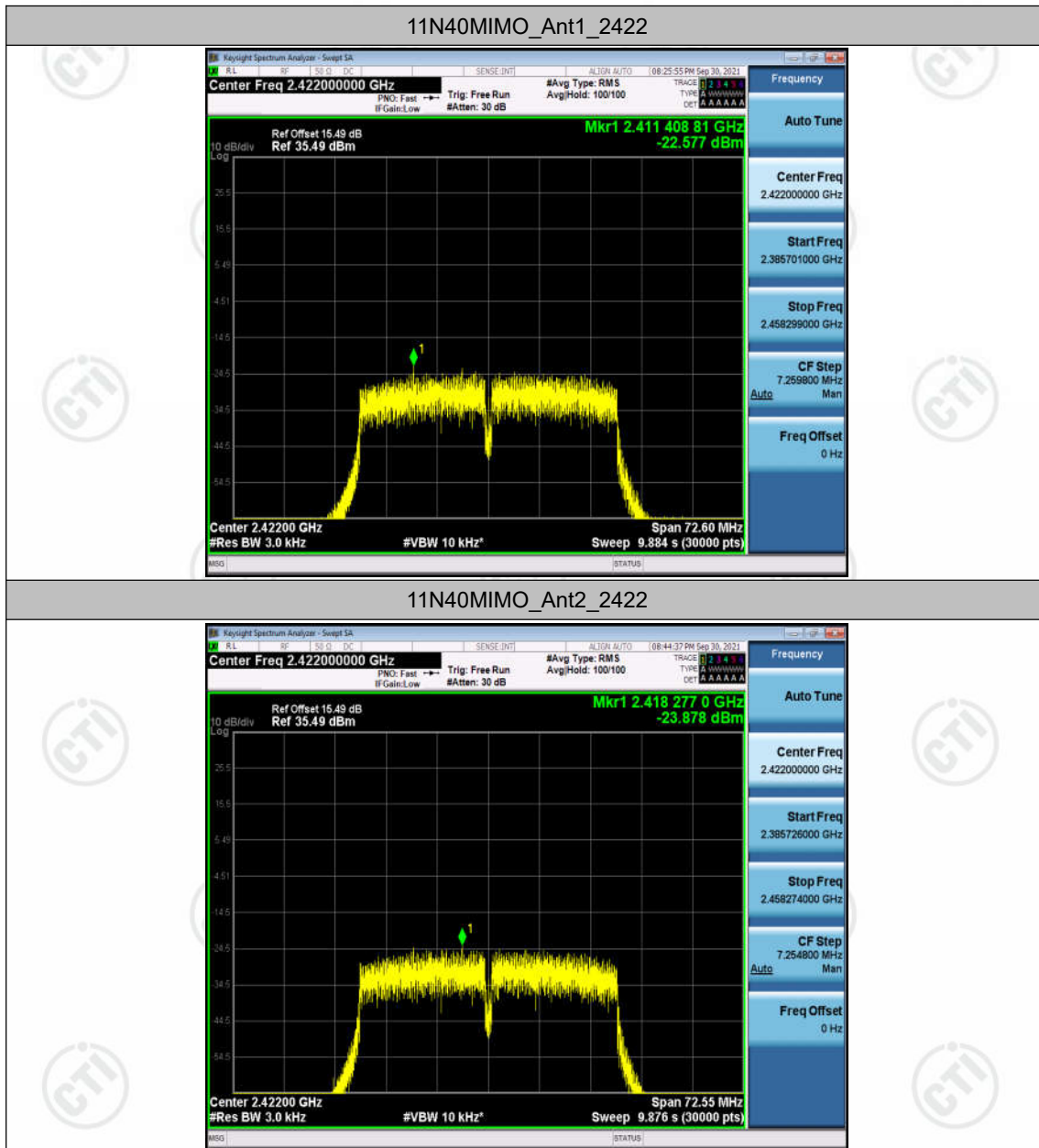


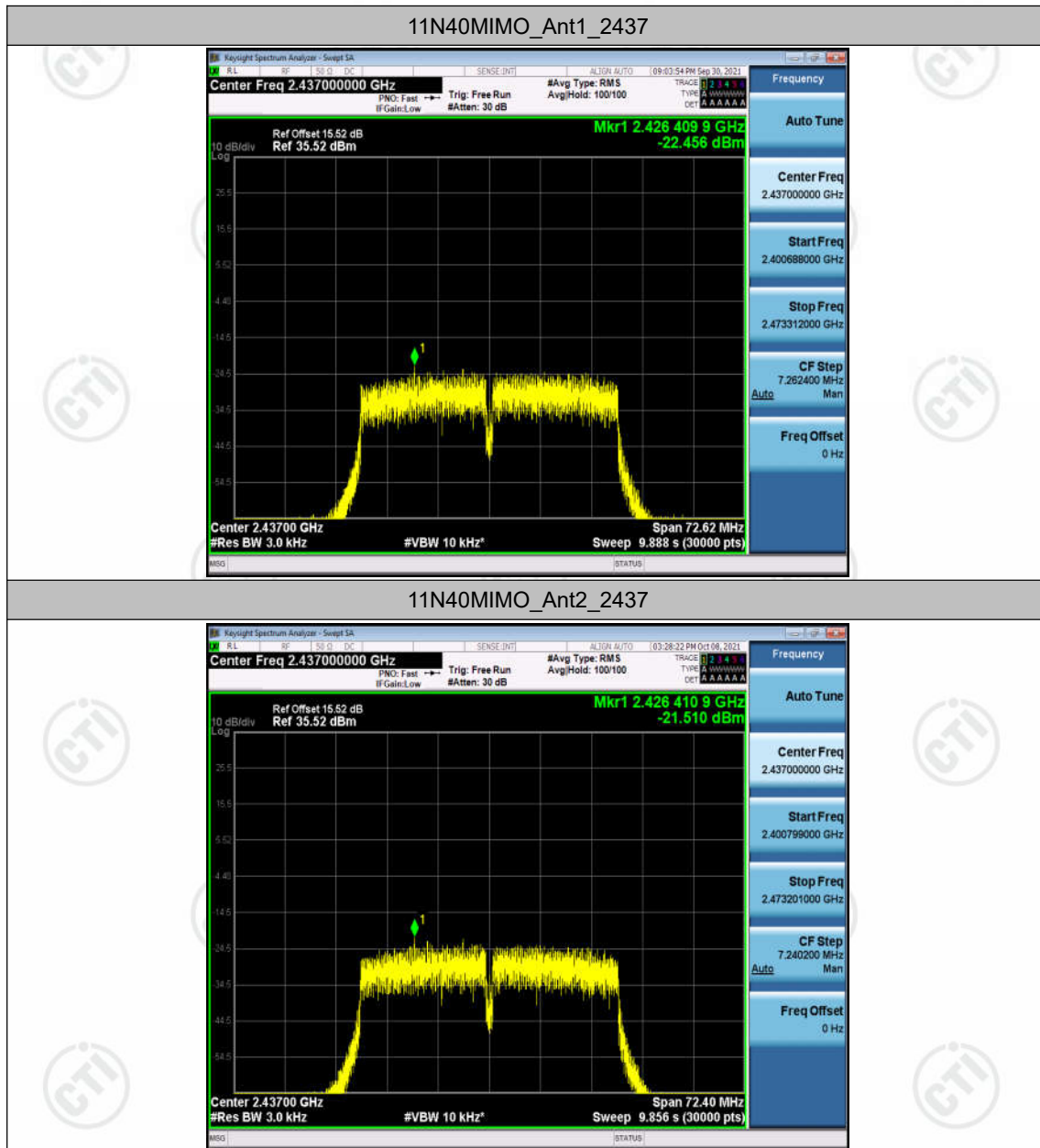


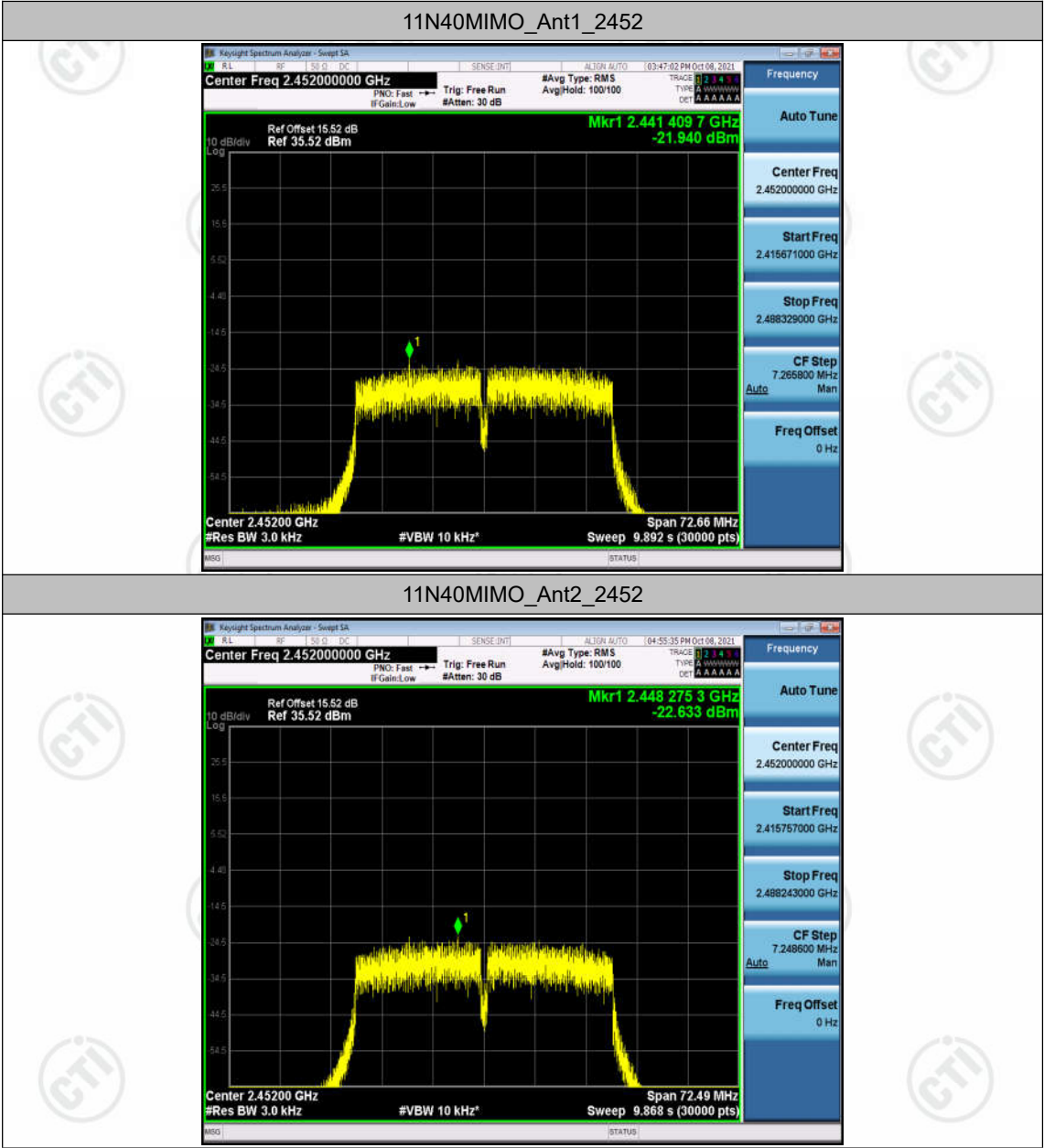










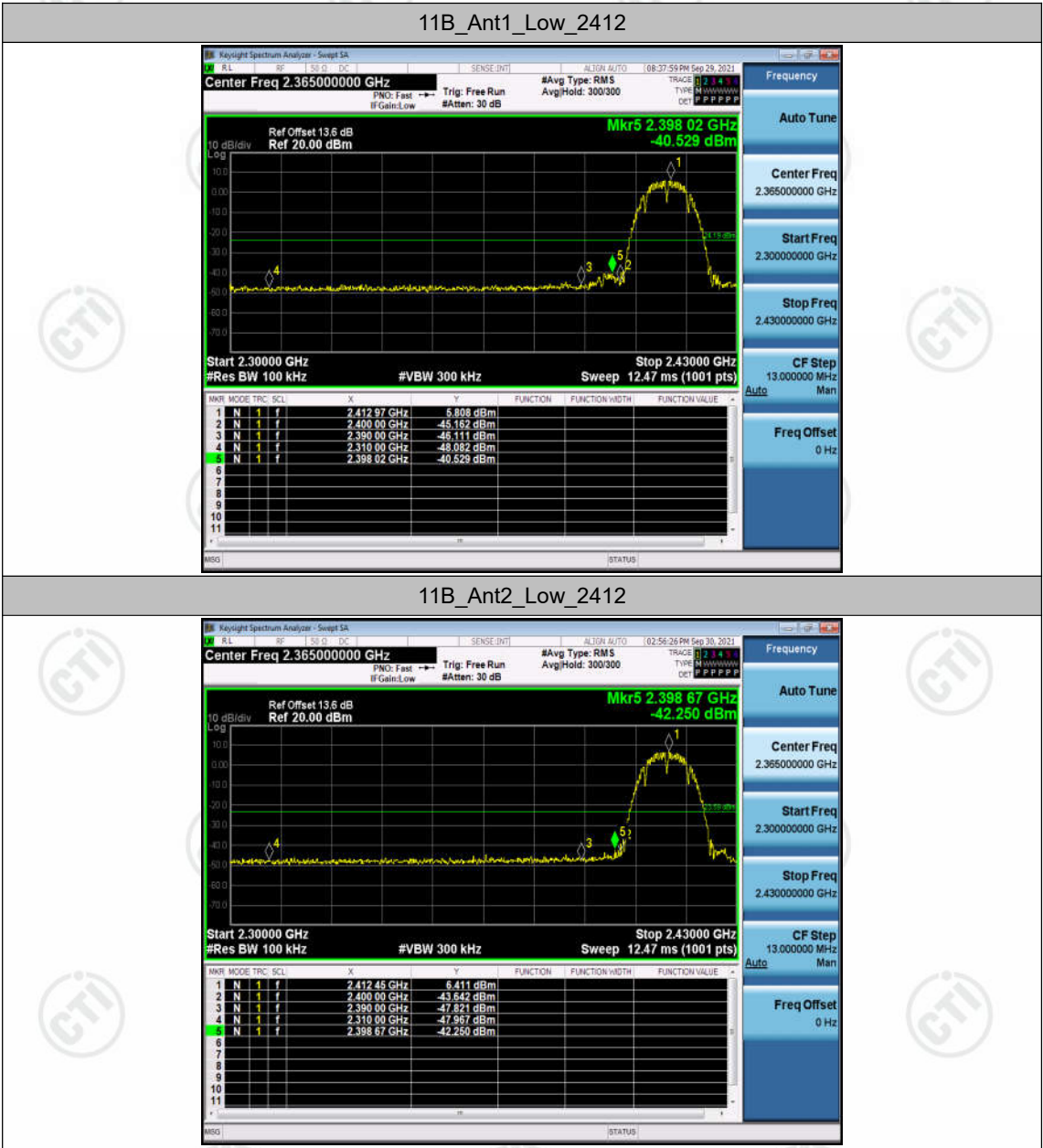


AppendixE:Band edge measurements

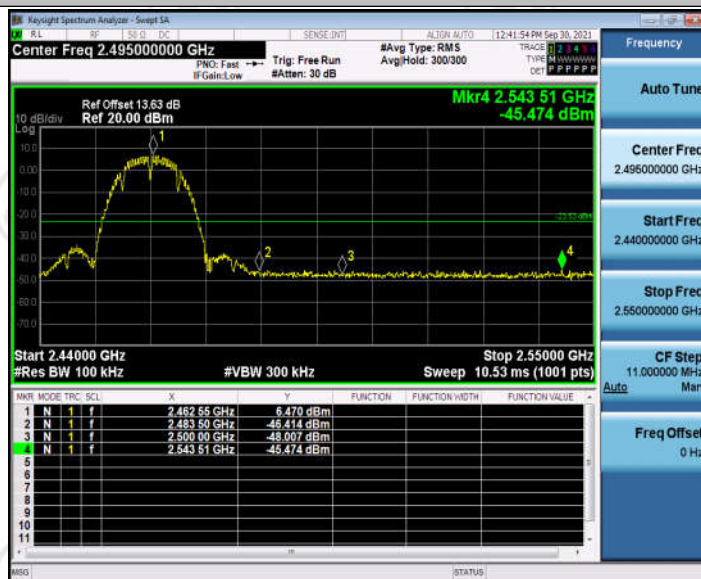
Test Result

| Test Mode     | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---------------|---------|--------|---------|---------------|-------------|------------|---------|
| 11B           | Ant1    | Low    | 2412    | 5.81          | -40.53      | <=-24.19   | PASS    |
|               | Ant2    | Low    | 2412    | 6.41          | -42.25      | <=-23.59   | PASS    |
|               | Ant1    | High   | 2462    | 6.47          | -45.47      | <=-23.53   | PASS    |
|               | Ant2    | High   | 2462    | 7.30          | -44.91      | <=-22.7    | PASS    |
| 11G           | Ant1    | Low    | 2412    | 4.54          | -30.42      | <=-25.46   | PASS    |
|               | Ant2    | Low    | 2412    | 4.58          | -31.28      | <=-25.42   | PASS    |
|               | Ant1    | High   | 2462    | 5.31          | -38.56      | <=-24.69   | PASS    |
|               | Ant2    | High   | 2462    | 5.89          | -38.93      | <=-24.11   | PASS    |
| 11N20SI<br>SO | Ant1    | Low    | 2412    | 4.55          | -29.62      | <=-25.45   | PASS    |
|               | Ant2    | Low    | 2412    | 5.45          | -29.07      | <=-24.55   | PASS    |
|               | Ant1    | High   | 2462    | 5.13          | -38.16      | <=-24.88   | PASS    |
|               | Ant2    | High   | 2462    | 4.00          | -40.79      | <=-26      | PASS    |
| 11N40SI<br>SO | Ant1    | Low    | 2422    | 1.37          | -32.27      | <=-28.63   | PASS    |
|               | Ant2    | Low    | 2422    | 2.13          | -29.56      | <=-27.87   | PASS    |
|               | Ant1    | High   | 2452    | 1.70          | -34.8       | <=-28.3    | PASS    |
|               | Ant2    | High   | 2452    | 1.08          | -36.81      | <=-28.92   | PASS    |

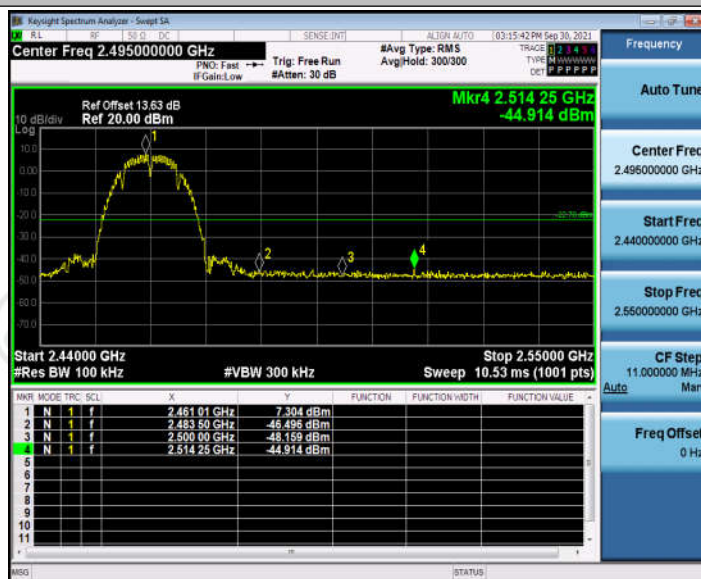
Test Graphs



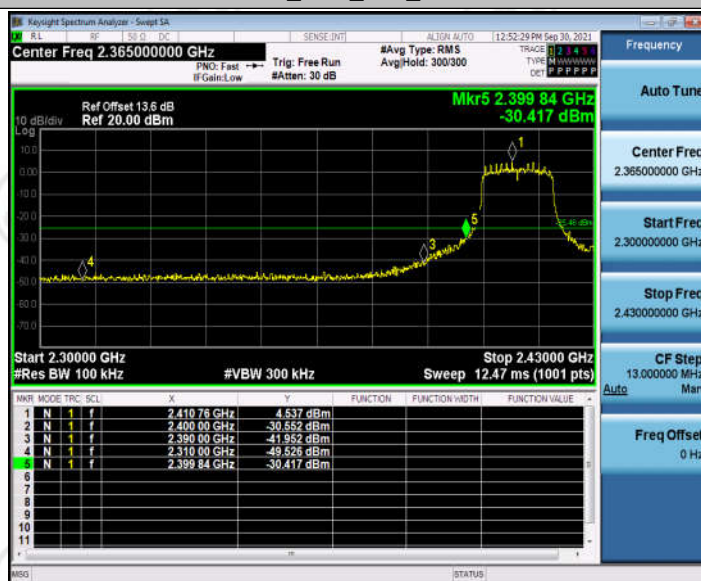
11B\_Ant1\_High\_2462



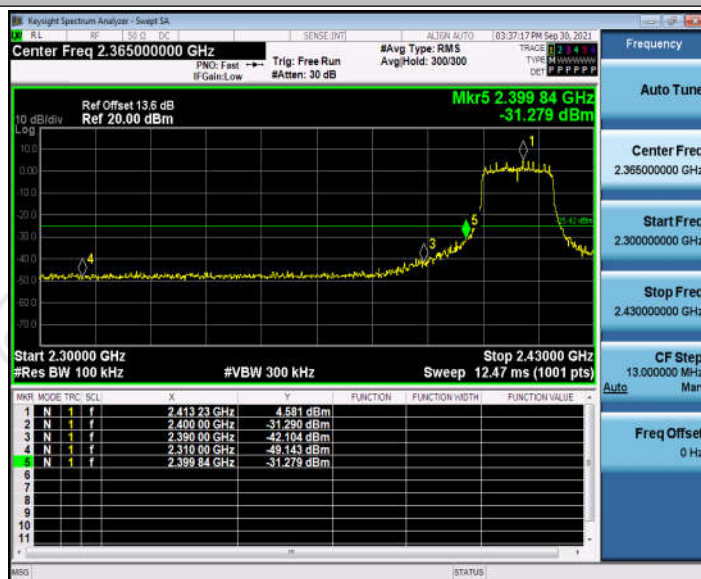
11B\_Ant2\_High\_2462

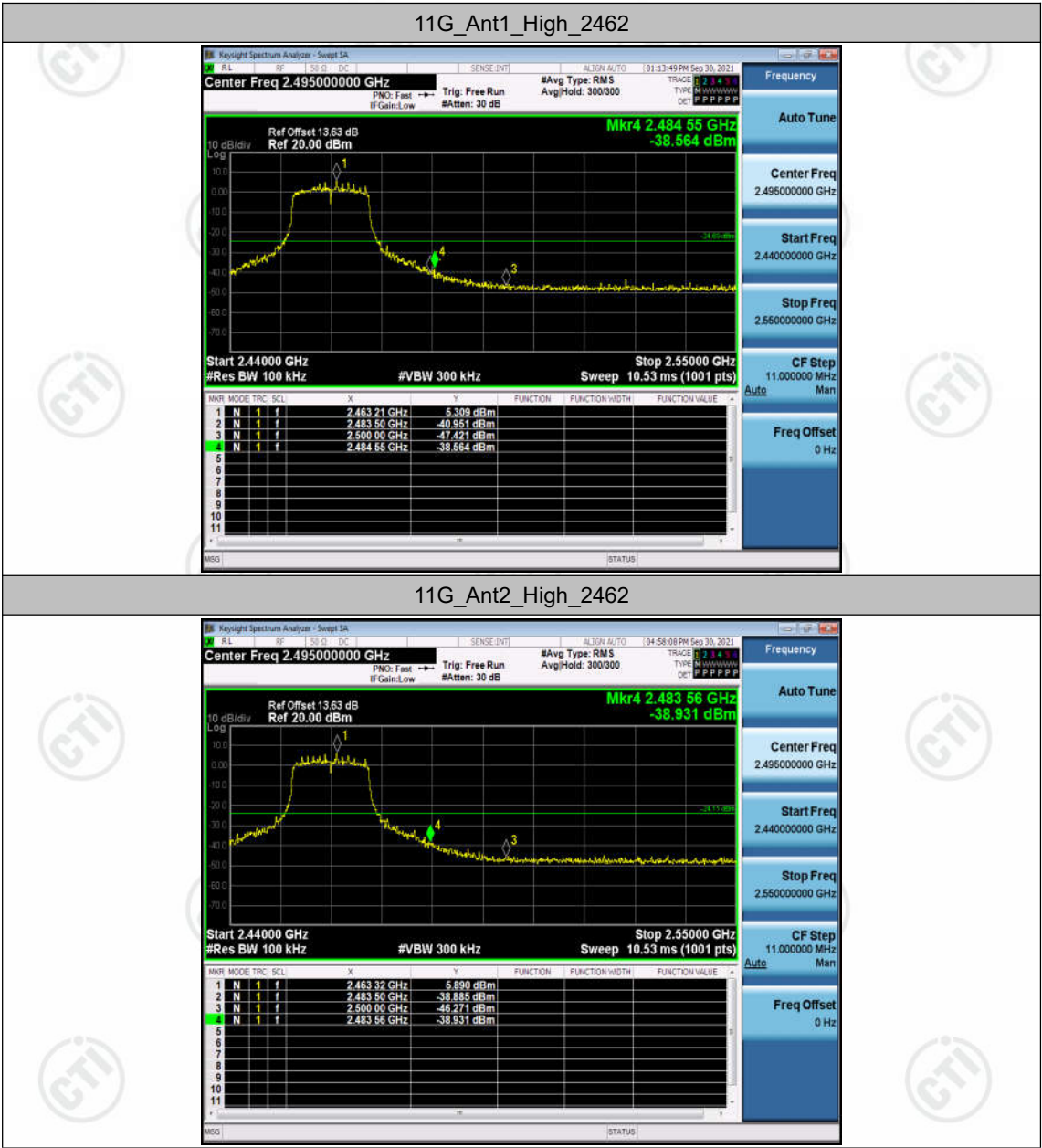


11G\_Ant1\_Low\_2412



11G\_Ant2\_Low\_2412



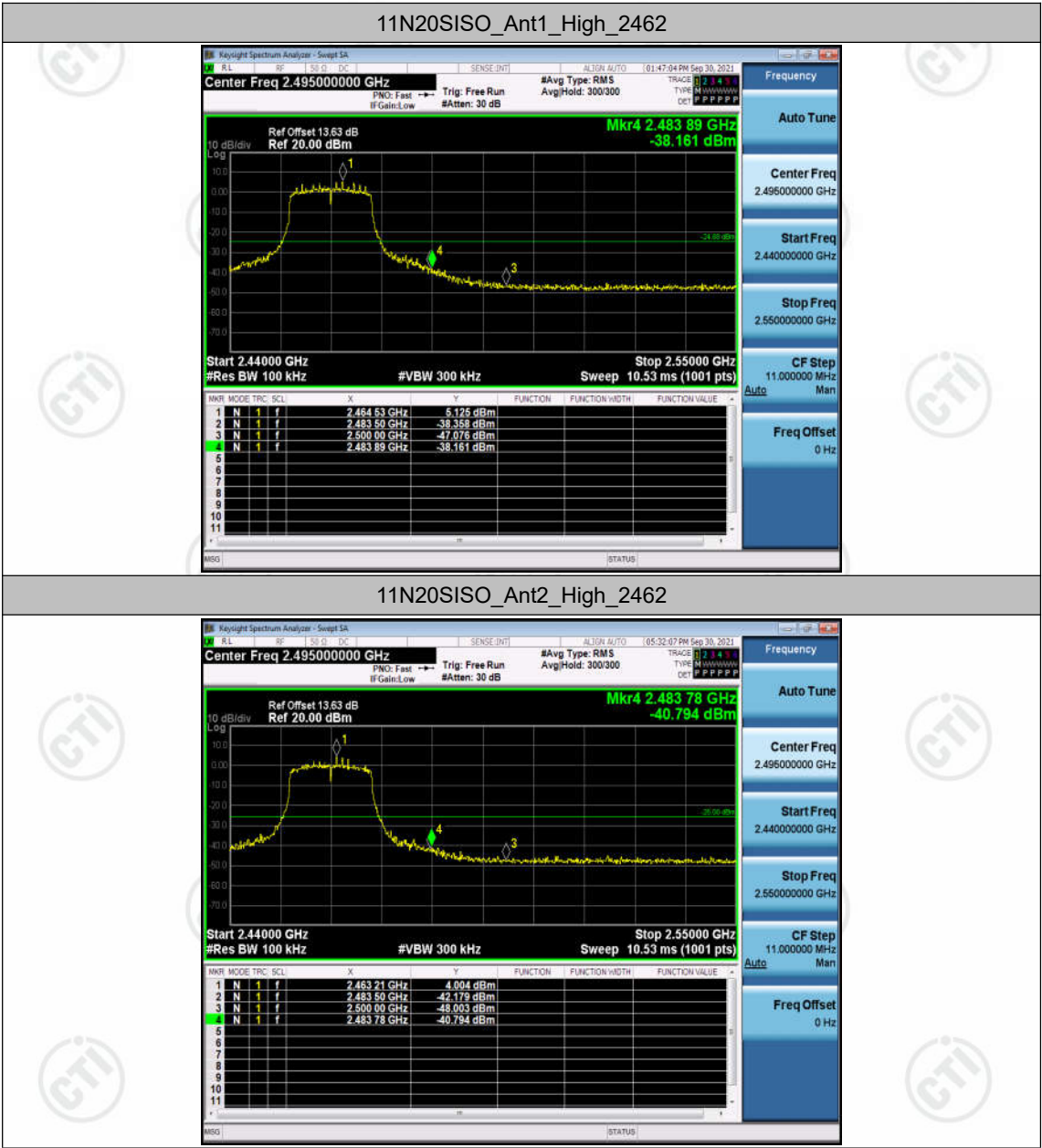


11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant2\_Low\_2412





11N40SISO\_Ant1\_Low\_2422



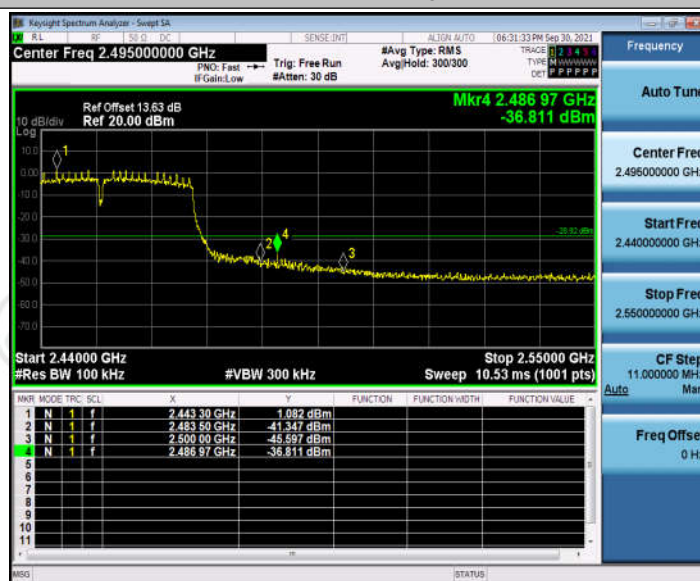
11N40SISO\_Ant2\_Low\_2422



## 11N40SISO\_Ant1\_High\_2452



## 11N40SISO\_Ant2\_High\_2452



## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Channel | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412    | Reference       | 5.35           | 5.35         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.79       | <=-14.648   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.816      | <=-14.648   | PASS    |
|           | Ant2    | 2412    | Reference       | 6.14           | 6.14         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -56.732      | <=-13.856   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.22       | <=-13.856   | PASS    |
|           | Ant1    | 2437    | Reference       | 6.12           | 6.12         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.865      | <=-13.876   | PASS    |
|           |         |         | 1000~26500      | ---            | -48.538      | <=-13.876   | PASS    |
|           | Ant2    | 2437    | Reference       | 7.37           | 7.37         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -58.026      | <=-12.635   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.672      | <=-12.635   | PASS    |
|           | Ant1    | 2462    | Reference       | 6.47           | 6.47         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.853      | <=-13.534   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.811      | <=-13.534   | PASS    |
|           | Ant2    | 2462    | Reference       | 7.01           | 7.01         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.491      | <=-12.991   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.558      | <=-12.991   | PASS    |
| 11G       | Ant1    | 2412    | Reference       | 3.80           | 3.80         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -56.606      | <=-16.205   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.51       | <=-16.205   | PASS    |
|           | Ant2    | 2412    | Reference       | 4.61           | 4.61         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.846      | <=-15.395   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.792      | <=-15.395   | PASS    |
|           | Ant1    | 2437    | Reference       | 3.78           | 3.78         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.232      | <=-16.217   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.463      | <=-16.217   | PASS    |
|           | Ant2    | 2437    | Reference       | 3.24           | 3.24         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.428      | <=-16.756   | PASS    |
|           |         |         | 1000~26500      | ---            | -49.318      | <=-16.756   | PASS    |
|           | Ant1    | 2462    | Reference       | 4.81           | 4.81         | ---         | PASS    |
|           |         |         | 30~1000         | ---            | -57.728      | <=-15.187   | PASS    |
|           |         |         | 1000~26500      | ---            | -48.812      | <=-15.187   | PASS    |
|           | Ant2    | 2462    | Reference       | 4.99           | 4.99         | ---         | PASS    |

|               |      |      |            |      |         |           |      |
|---------------|------|------|------------|------|---------|-----------|------|
| 11N20SIS<br>O |      |      | 30~1000    | ---  | -57.667 | <=-15.013 | PASS |
|               |      |      | 1000~26500 | ---  | -49.353 | <=-15.013 | PASS |
|               | Ant1 | 2412 | Reference  | 5.18 | 5.18    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.968 | <=-14.825 | PASS |
|               |      |      | 1000~26500 | ---  | -48.339 | <=-14.825 | PASS |
|               | Ant2 | 2412 | Reference  | 4.93 | 4.93    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.241 | <=-15.073 | PASS |
|               |      |      | 1000~26500 | ---  | -48.951 | <=-15.073 | PASS |
|               | Ant1 | 2437 | Reference  | 5.54 | 5.54    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.779 | <=-14.458 | PASS |
|               |      |      | 1000~26500 | ---  | -49.685 | <=-14.458 | PASS |
|               | Ant2 | 2437 | Reference  | 3.20 | 3.20    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.837 | <=-16.803 | PASS |
|               |      |      | 1000~26500 | ---  | -49.53  | <=-16.803 | PASS |
|               | Ant1 | 2462 | Reference  | 4.34 | 4.34    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.419 | <=-15.656 | PASS |
|               |      |      | 1000~26500 | ---  | -49.497 | <=-15.656 | PASS |
|               | Ant2 | 2462 | Reference  | 3.53 | 3.53    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.066 | <=-16.473 | PASS |
|               |      |      | 1000~26500 | ---  | -49.51  | <=-16.473 | PASS |
| 11N40SIS<br>O | Ant1 | 2422 | Reference  | 1.08 | 1.08    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -55.65  | <=-18.924 | PASS |
|               |      |      | 1000~26500 | ---  | -49.046 | <=-18.924 | PASS |
|               | Ant2 | 2422 | Reference  | 2.17 | 2.17    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -56.401 | <=-17.834 | PASS |
|               |      |      | 1000~26500 | ---  | -49.242 | <=-17.834 | PASS |
|               | Ant1 | 2437 | Reference  | 1.33 | 1.33    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -54.447 | <=-18.669 | PASS |
|               |      |      | 1000~26500 | ---  | -49.334 | <=-18.669 | PASS |
|               | Ant2 | 2437 | Reference  | 1.78 | 1.78    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -56.793 | <=-18.22  | PASS |
|               |      |      | 1000~26500 | ---  | -48.755 | <=-18.22  | PASS |
|               | Ant1 | 2452 | Reference  | 1.27 | 1.27    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -54.632 | <=-18.727 | PASS |
|               |      |      | 1000~26500 | ---  | -49.173 | <=-18.727 | PASS |
|               | Ant2 | 2452 | Reference  | 1.00 | 1.00    | ---       | PASS |
|               |      |      | 30~1000    | ---  | -57.067 | <=-18.999 | PASS |
|               |      |      | 1000~26500 | ---  | -49.351 | <=-18.999 | PASS |