

## Appendix A: Test Results of 2.4GHz Wi-Fi

|                                                                             |           |
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**Appendix A.1: Test Results of 6dB Bandwidth***Test Result*

| TestMode  | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 9.120        | 2407.440 | 2416.560 | 0.5        | PASS    |
|           | Ant2    | 2412    | 9.120        | 2407.440 | 2416.560 | 0.5        | PASS    |
|           | Ant1    | 2437    | 9.120        | 2432.440 | 2441.560 | 0.5        | PASS    |
|           | Ant2    | 2437    | 9.120        | 2432.440 | 2441.560 | 0.5        | PASS    |
|           | Ant1    | 2462    | 9.120        | 2457.440 | 2466.560 | 0.5        | PASS    |
|           | Ant2    | 2462    | 9.120        | 2457.440 | 2466.560 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 16.040       | 2403.920 | 2419.960 | 0.5        | PASS    |
|           | Ant2    | 2412    | 15.840       | 2404.080 | 2419.920 | 0.5        | PASS    |
|           | Ant1    | 2437    | 16.000       | 2429.000 | 2445.000 | 0.5        | PASS    |
|           | Ant2    | 2437    | 16.040       | 2428.920 | 2444.960 | 0.5        | PASS    |
|           | Ant1    | 2462    | 16.160       | 2453.920 | 2470.080 | 0.5        | PASS    |
|           | Ant2    | 2462    | 16.040       | 2454.040 | 2470.080 | 0.5        | PASS    |
| 11N20MIMO | Ant1    | 2412    | 17.200       | 2403.320 | 2420.520 | 0.5        | PASS    |
|           | Ant2    | 2412    | 17.280       | 2403.280 | 2420.560 | 0.5        | PASS    |
|           | Ant1    | 2437    | 17.160       | 2428.520 | 2445.680 | 0.5        | PASS    |
|           | Ant2    | 2437    | 17.280       | 2428.320 | 2445.600 | 0.5        | PASS    |
|           | Ant1    | 2462    | 17.200       | 2453.320 | 2470.520 | 0.5        | PASS    |
|           | Ant2    | 2462    | 17.400       | 2453.280 | 2470.680 | 0.5        | PASS    |
| 11N40MIMO | Ant1    | 2422    | 35.840       | 2404.240 | 2440.080 | 0.5        | PASS    |
|           | Ant2    | 2422    | 34.800       | 2404.960 | 2439.760 | 0.5        | PASS    |
|           | Ant1    | 2437    | 32.640       | 2421.800 | 2454.440 | 0.5        | PASS    |
|           | Ant2    | 2437    | 34.080       | 2420.200 | 2454.280 | 0.5        | PASS    |
|           | Ant1    | 2452    | 35.280       | 2434.400 | 2469.680 | 0.5        | PASS    |
|           | Ant2    | 2452    | 34.720       | 2434.320 | 2469.040 | 0.5        | PASS    |

## Test Graphs





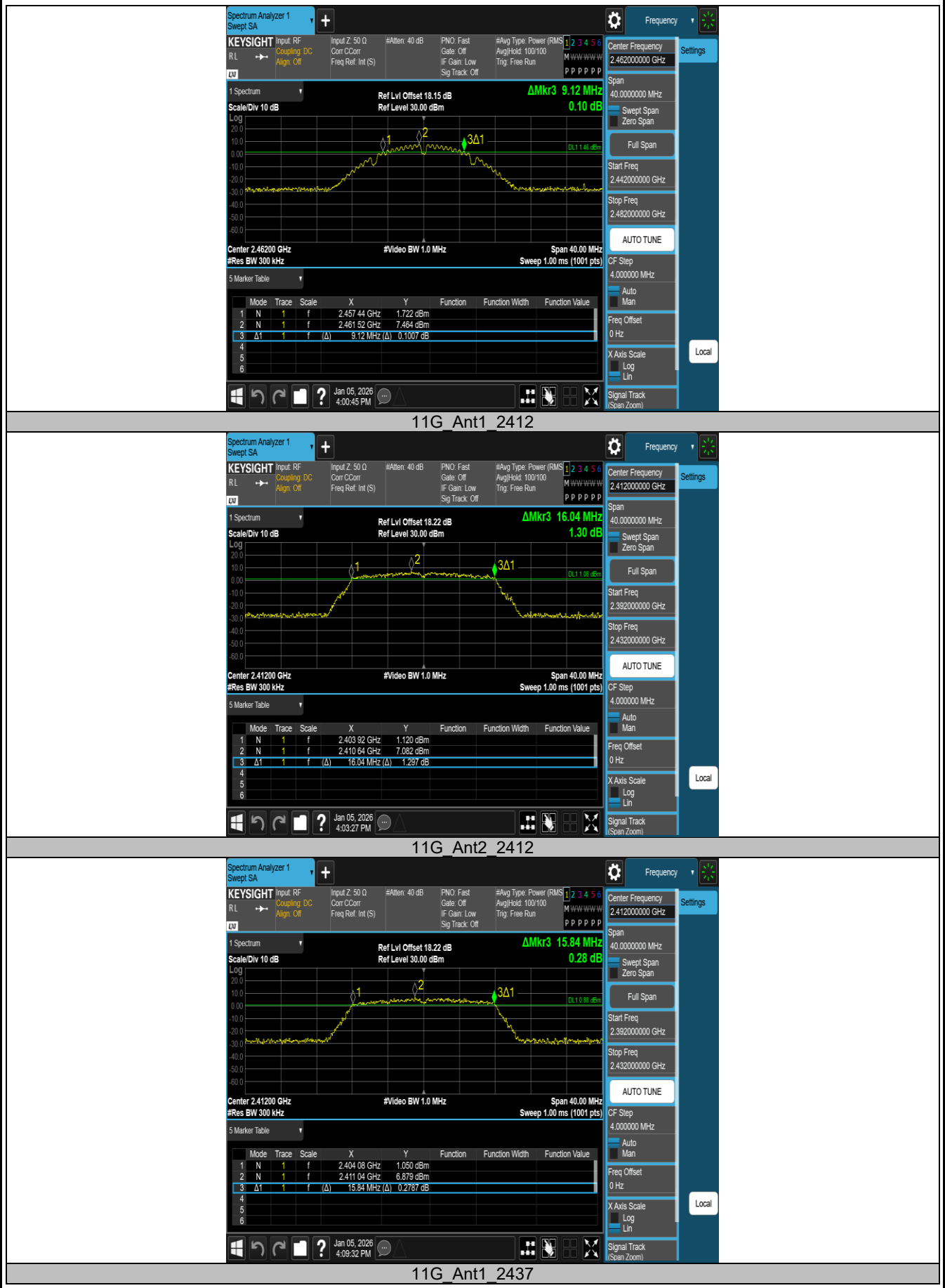
11B\_Ant2\_2437

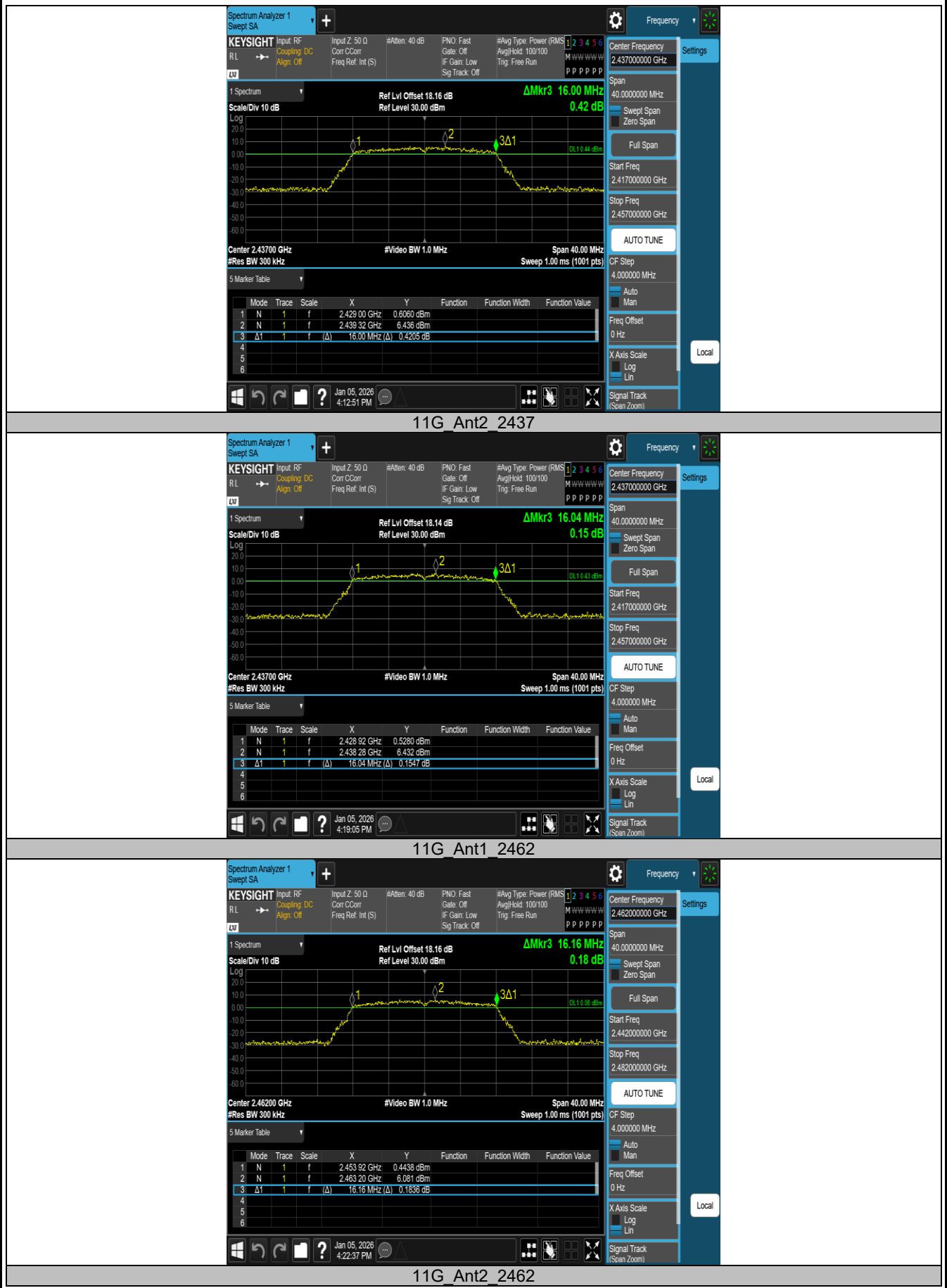


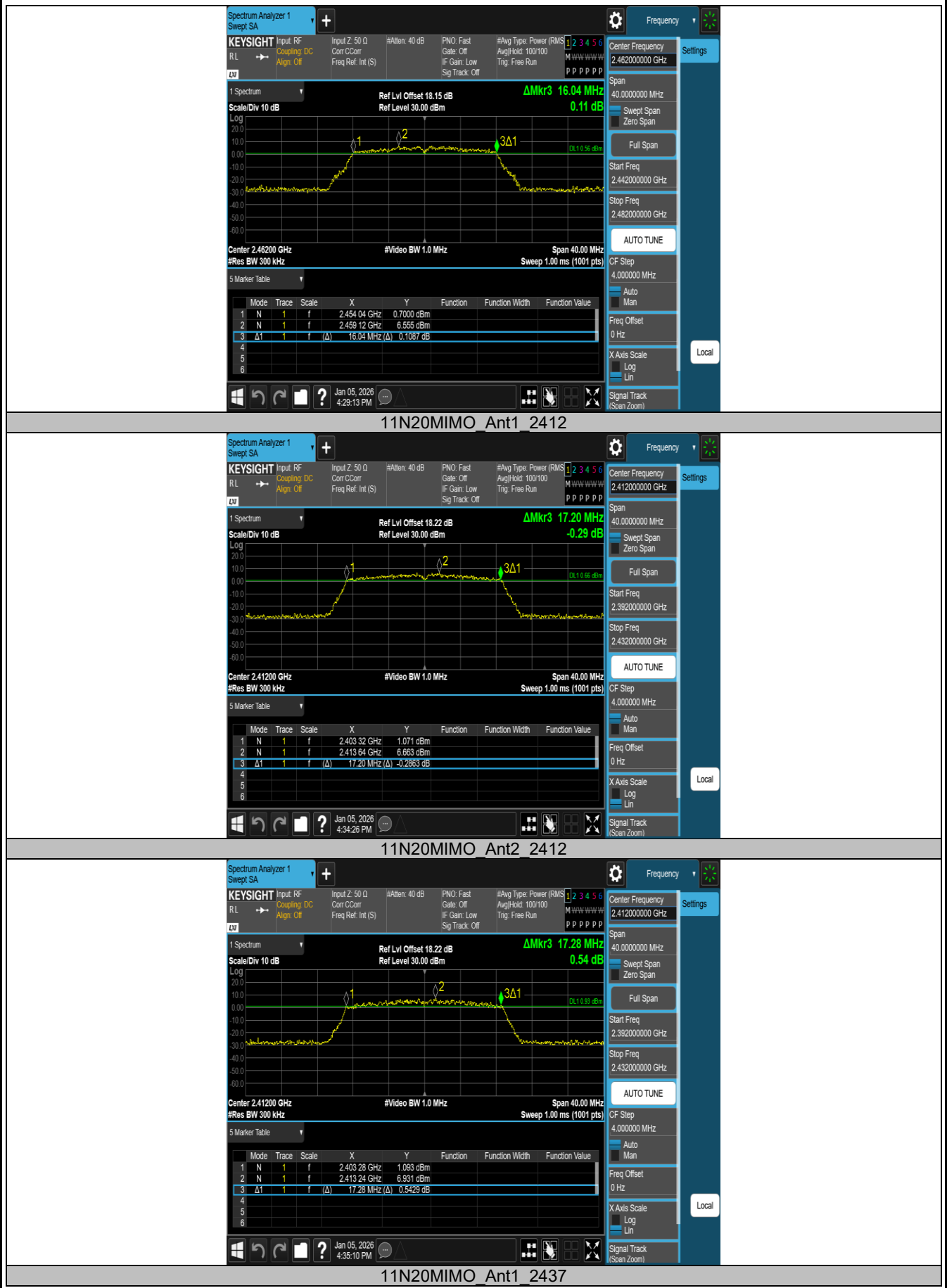
11B\_Ant1\_2462

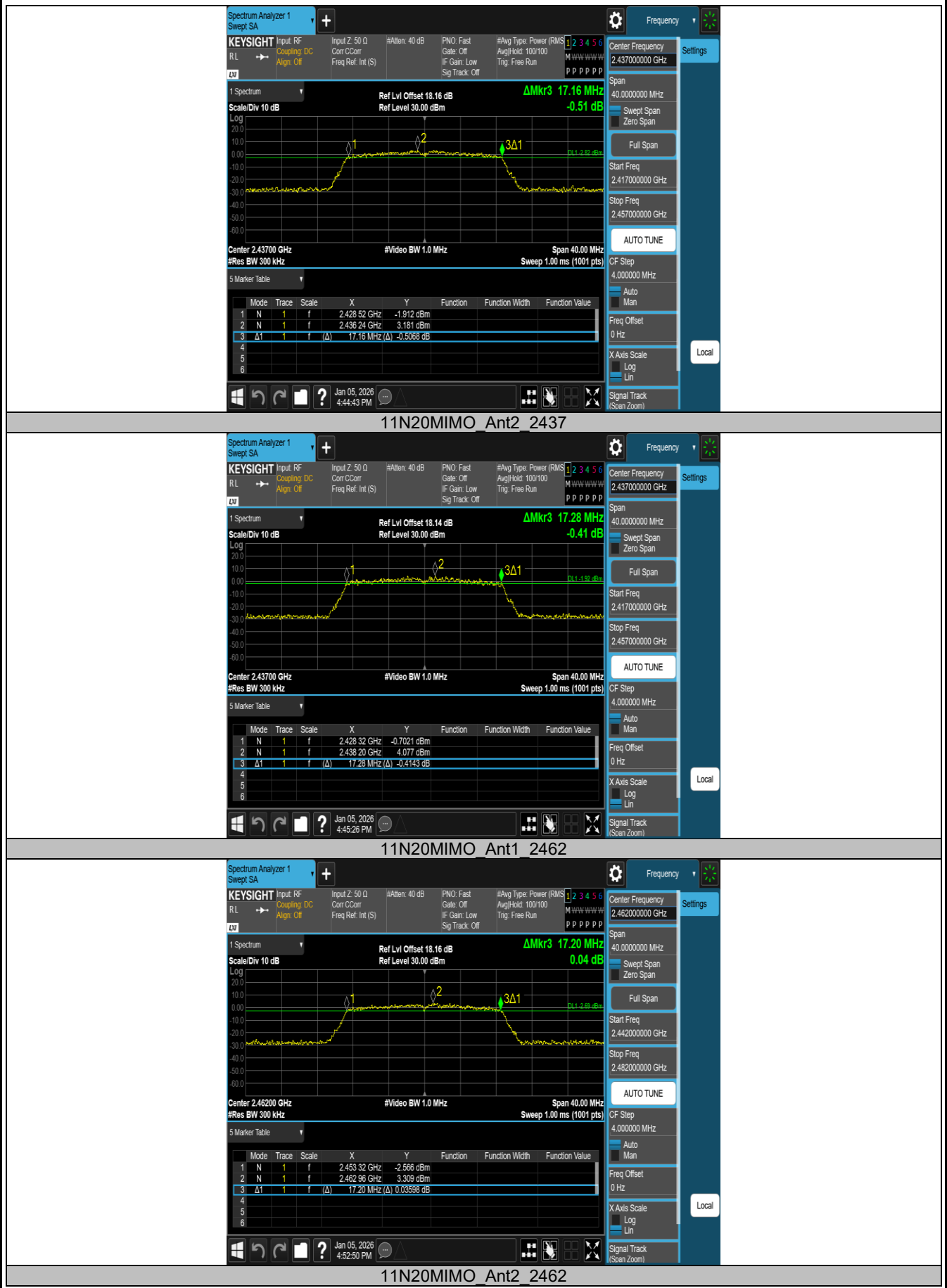


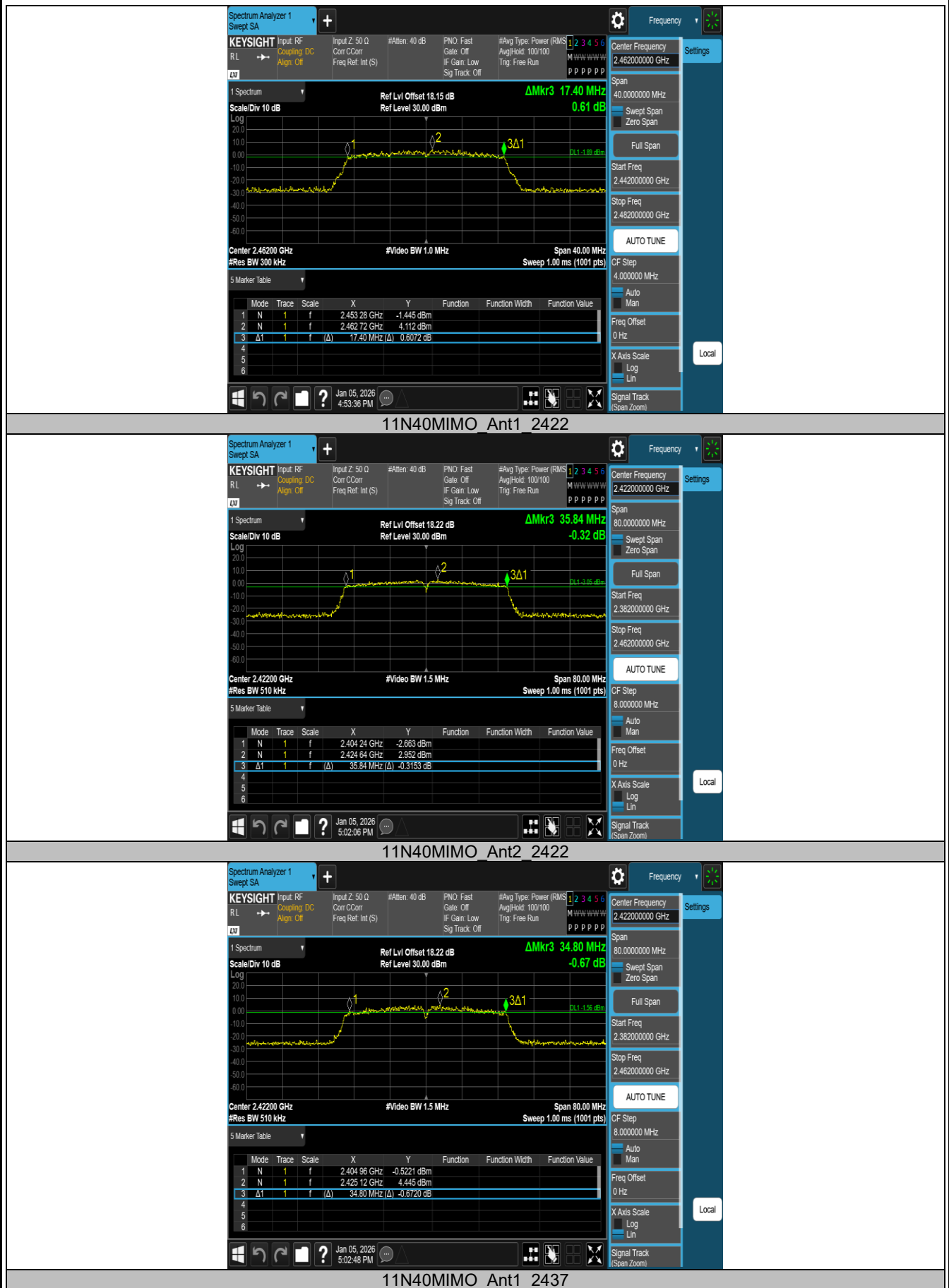
11B\_Ant2\_2462













11N40MIMO Ant2 2437



11N40MIMO Ant1 2452



11N40MIMO Ant2 2452

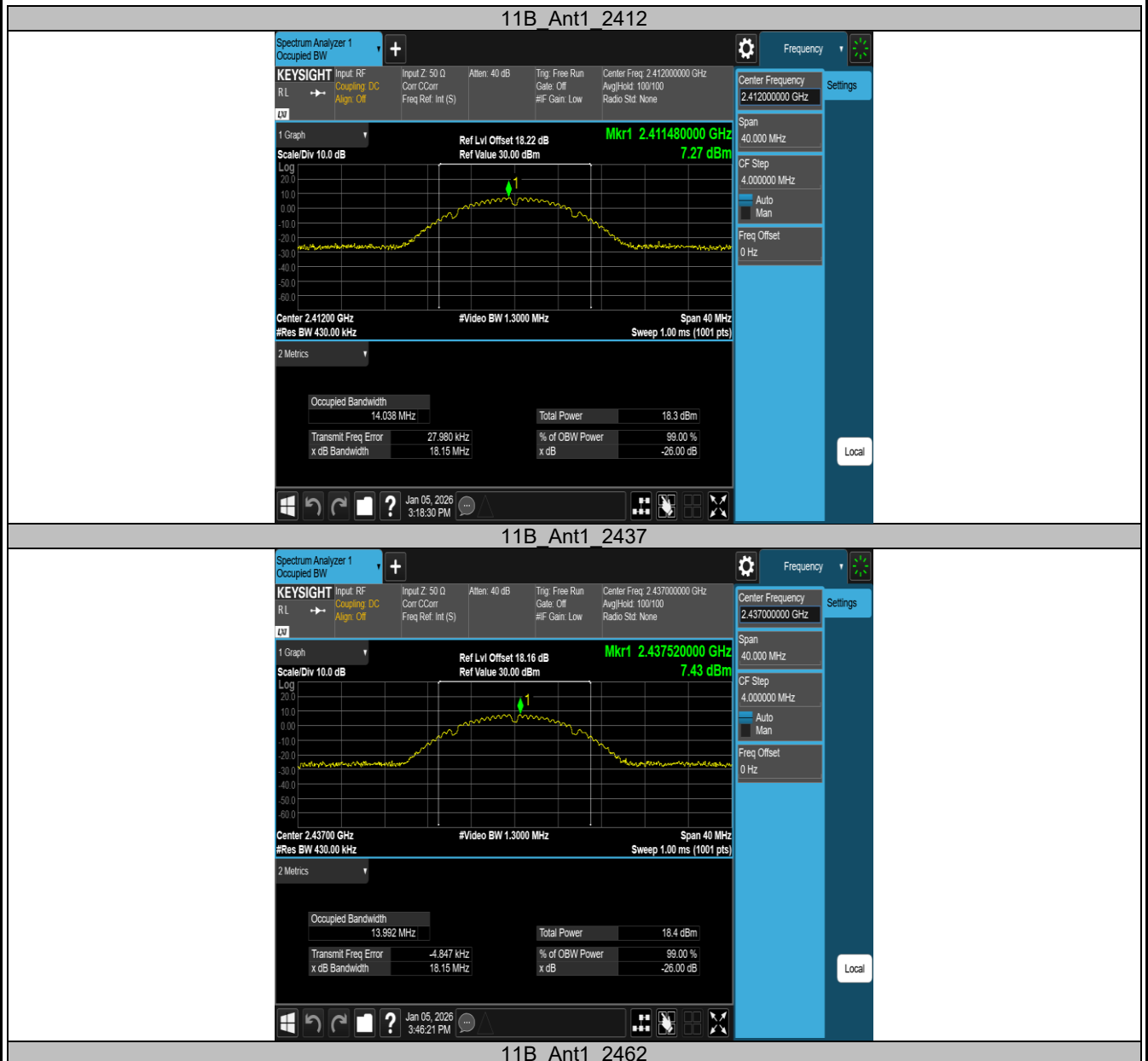


## Appendix A.2: Test Results of 99% Bandwidth

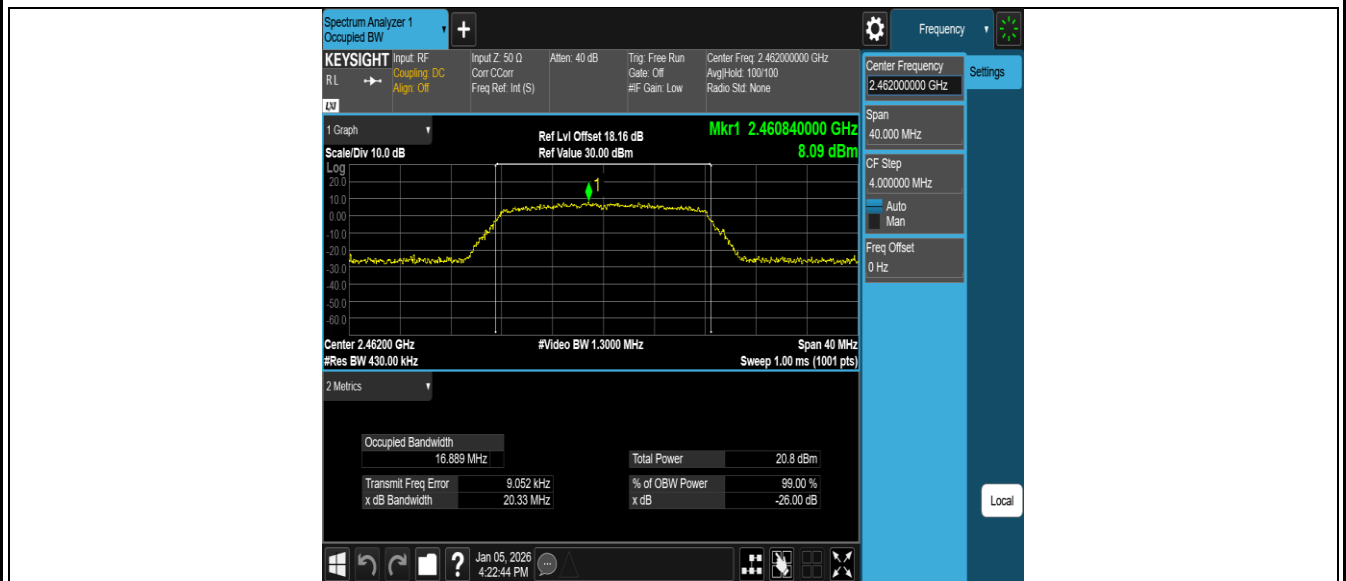
### Test Result

| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412    | 14.038    | 2405.0090 | 2419.0470 | ---        | PASS    |
|           |         | 2437    | 13.992    | 2429.9992 | 2443.9912 | ---        | PASS    |
|           |         | 2462    | 14.044    | 2454.9844 | 2469.0284 | ---        | PASS    |
| 11G       | Ant1    | 2412    | 16.972    | 2403.4981 | 2420.4701 | ---        | PASS    |
|           |         | 2437    | 16.866    | 2428.5163 | 2445.3823 | ---        | PASS    |
|           |         | 2462    | 16.889    | 2453.5646 | 2470.4536 | ---        | PASS    |
| 11N20MIMO | Ant1    | 2412    | 17.862    | 2403.0538 | 2420.9158 | ---        | PASS    |
|           |         | 2437    | 17.913    | 2428.0244 | 2445.9374 | ---        | PASS    |
|           |         | 2462    | 17.956    | 2453.0017 | 2470.9577 | ---        | PASS    |
| 11N40MIMO | Ant1    | 2422    | 36.625    | 2403.6483 | 2440.2733 | ---        | PASS    |
|           |         | 2437    | 36.480    | 2418.7721 | 2455.2521 | ---        | PASS    |
|           |         | 2452    | 36.461    | 2433.8437 | 2470.3047 | ---        | PASS    |

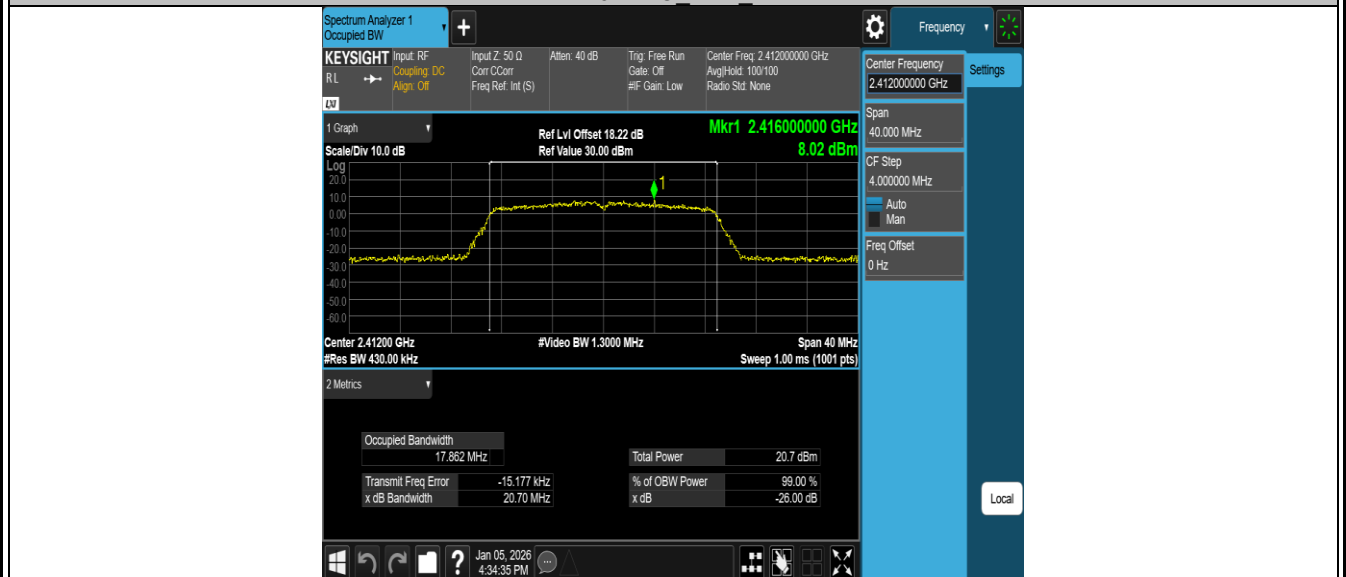
Test Graphs



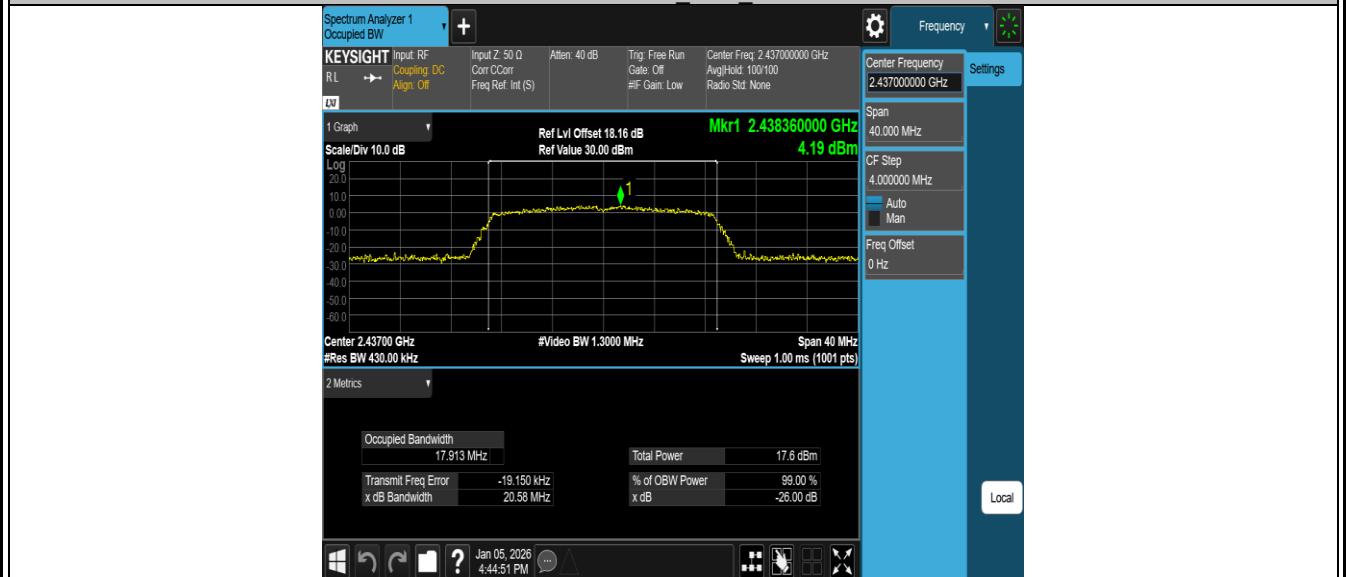




11N20MIMO Ant1 2412

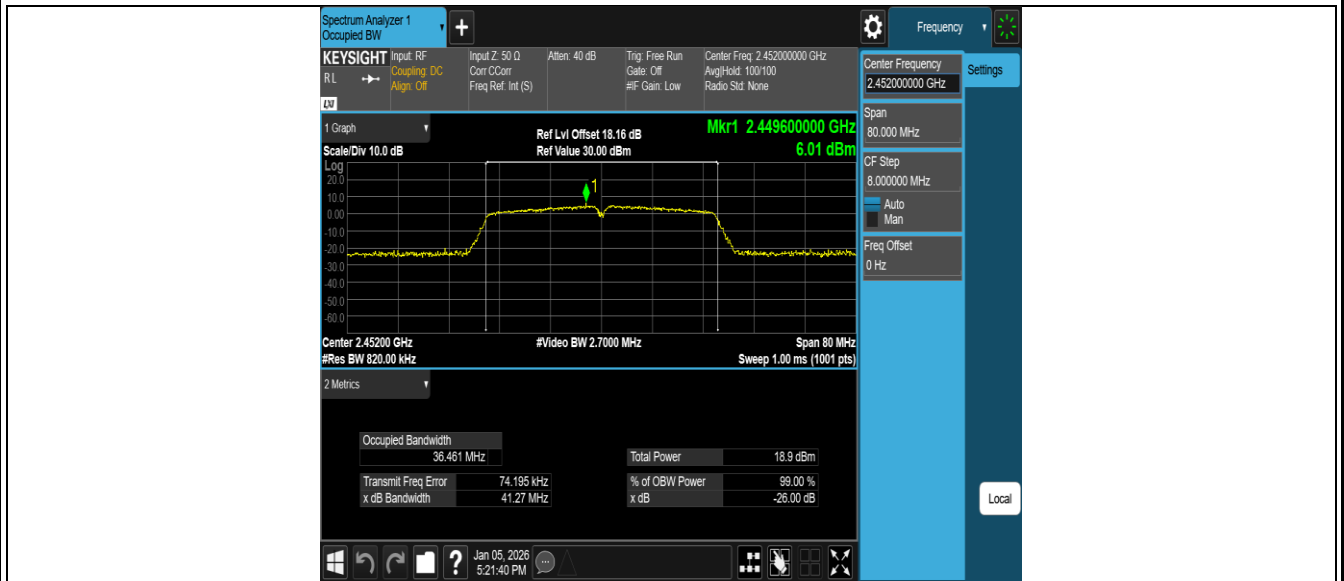


11N20MIMO Ant1 2437



11N20MIMO Ant1 2462





### Appendix A.3: Test Results of Conducted Power Spectral Density

#### Test Result

| TestMode  | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -6.05                | ≤8.00           | PASS    |
|           | Ant2    | 2412    | -5.90                | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -5.99                | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -6.27                | ≤8.00           | PASS    |
|           | Ant1    | 2462    | -6.42                | ≤8.00           | PASS    |
|           | Ant2    | 2462    | -6.10                | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412    | -7.73                | ≤8.00           | PASS    |
|           | Ant2    | 2412    | -8.90                | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -8.97                | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -7.99                | ≤8.00           | PASS    |
|           | Ant1    | 2462    | -9.17                | ≤8.00           | PASS    |
|           | Ant2    | 2462    | -8.98                | ≤8.00           | PASS    |
| 11N20MIMO | Ant1    | 2412    | -11.17               | ≤8.00           | PASS    |
|           | Ant2    | 2412    | -11.26               | ≤8.00           | PASS    |
|           | total   | 2412    | -8.20                | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -11.58               | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -11.02               | ≤8.00           | PASS    |
|           | total   | 2437    | -8.28                | ≤8.00           | PASS    |
|           | Ant1    | 2462    | -11.36               | ≤8.00           | PASS    |
|           | Ant2    | 2462    | -11.48               | ≤8.00           | PASS    |
|           | total   | 2462    | -8.41                | ≤8.00           | PASS    |
| 11N40MIMO | Ant1    | 2422    | -15.22               | ≤8.00           | PASS    |
|           | Ant2    | 2422    | -13.86               | ≤8.00           | PASS    |
|           | total   | 2422    | -11.48               | ≤8.00           | PASS    |
|           | Ant1    | 2437    | -14.70               | ≤8.00           | PASS    |
|           | Ant2    | 2437    | -15.01               | ≤8.00           | PASS    |
|           | total   | 2437    | -11.84               | ≤8.00           | PASS    |
|           | Ant1    | 2452    | -14.41               | ≤8.00           | PASS    |
|           | Ant2    | 2452    | -15.27               | ≤8.00           | PASS    |
|           | total   | 2452    | -11.81               | ≤8.00           | PASS    |

Test Graphs



11B Ant2 2437



11B Ant1 2462



11B Ant2 2462

