

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

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## Appendix B.1: Test Results of Conducted Power Spectral Density

| TestMode  | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -0.30                | ≤8.00           | PASS    |
|           |         | 2437    | -0.57                | ≤8.00           | PASS    |
|           |         | 2462    | -0.84                | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412    | -9.17                | ≤8.00           | PASS    |
|           |         | 2437    | -9.94                | ≤8.00           | PASS    |
|           |         | 2462    | -9.42                | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412    | -10.93               | ≤8.00           | PASS    |
|           |         | 2437    | -10.63               | ≤8.00           | PASS    |
|           |         | 2462    | -10.63               | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422    | -12.19               | ≤8.00           | PASS    |
|           |         | 2437    | -13.06               | ≤8.00           | PASS    |
|           |         | 2452    | -13.30               | ≤8.00           | PASS    |

11B\_Ant1\_2412



11B\_Ant1\_2437

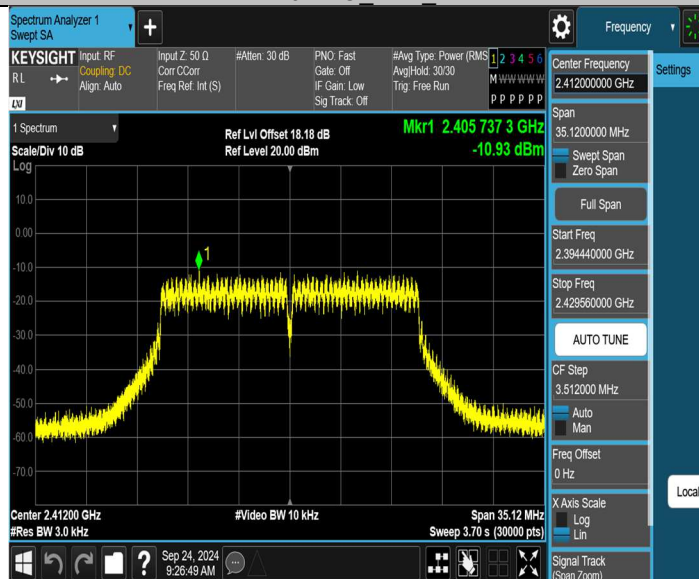


11B\_Ant1\_2462

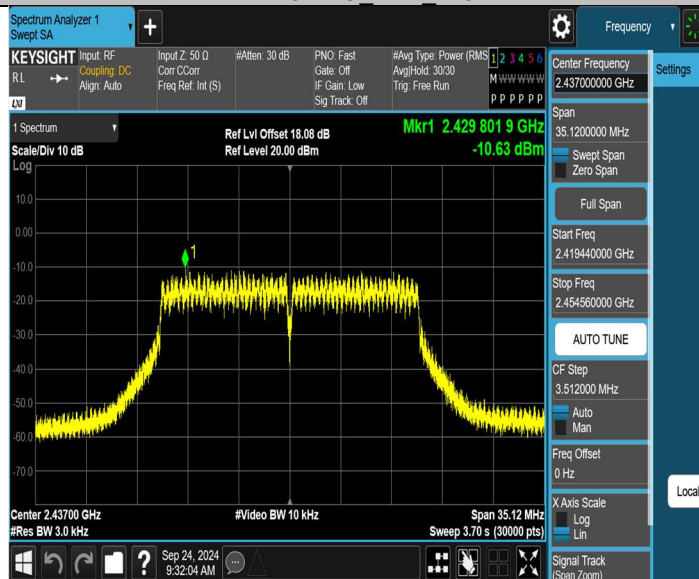




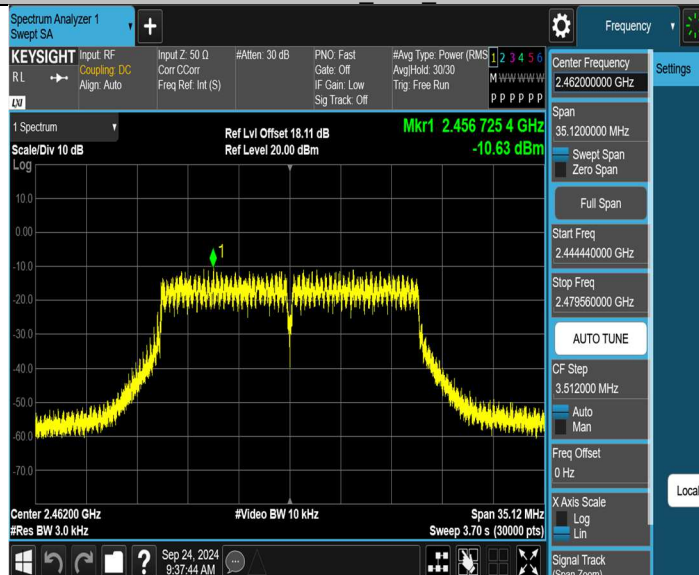
11N20SISO Ant1 2412



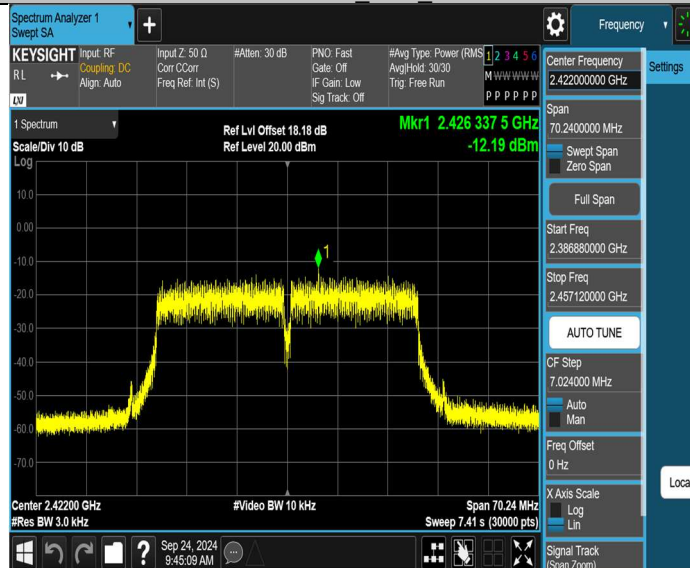
11N20SISO Ant1 2437



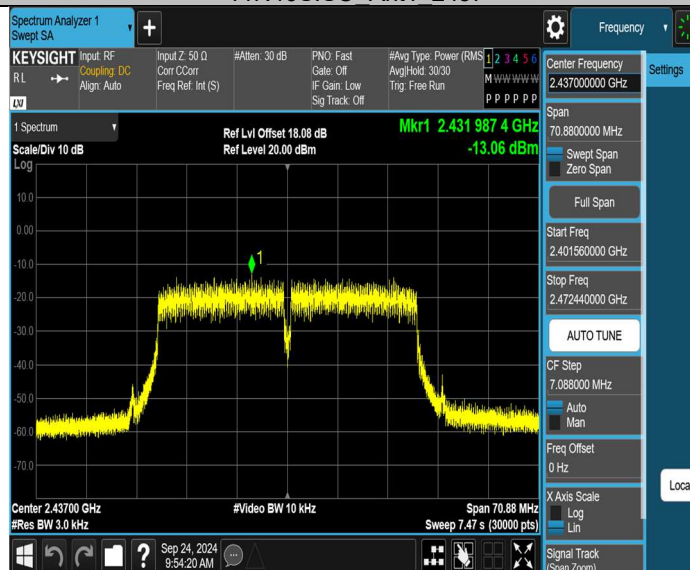
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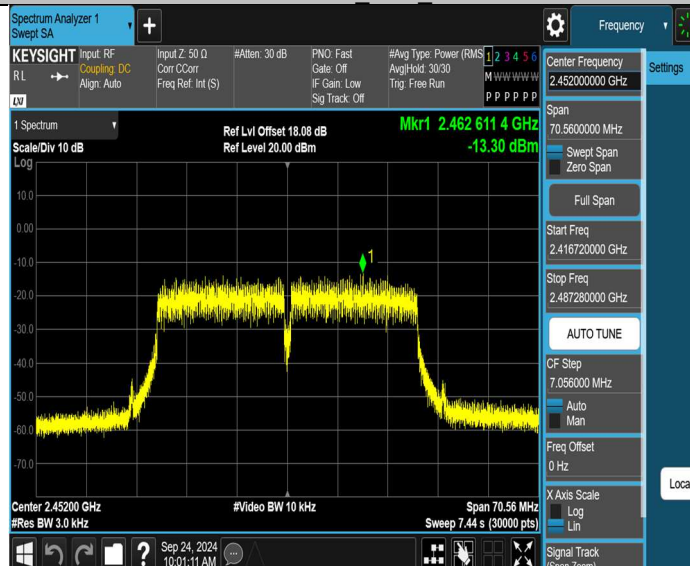
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



## Appendix B.2: Test Results of 6dB Bandwidth

| TestMode  | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 8.080        | 2407.960 | 2416.040 | 0.5        | PASS    |
|           |         | 2437    | 8.040        | 2432.960 | 2441.000 | 0.5        | PASS    |
|           |         | 2462    | 9.040        | 2457.480 | 2466.520 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 16.320       | 2403.840 | 2420.160 | 0.5        | PASS    |
|           |         | 2437    | 16.320       | 2428.840 | 2445.160 | 0.5        | PASS    |
|           |         | 2462    | 16.360       | 2453.800 | 2470.160 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412    | 17.560       | 2403.200 | 2420.760 | 0.5        | PASS    |
|           |         | 2437    | 17.560       | 2428.200 | 2445.760 | 0.5        | PASS    |
|           |         | 2462    | 17.560       | 2453.200 | 2470.760 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422    | 35.120       | 2404.720 | 2439.840 | 0.5        | PASS    |
|           |         | 2437    | 35.440       | 2419.400 | 2454.840 | 0.5        | PASS    |
|           |         | 2452    | 35.280       | 2434.480 | 2469.760 | 0.5        | PASS    |

11B\_Ant1\_2412

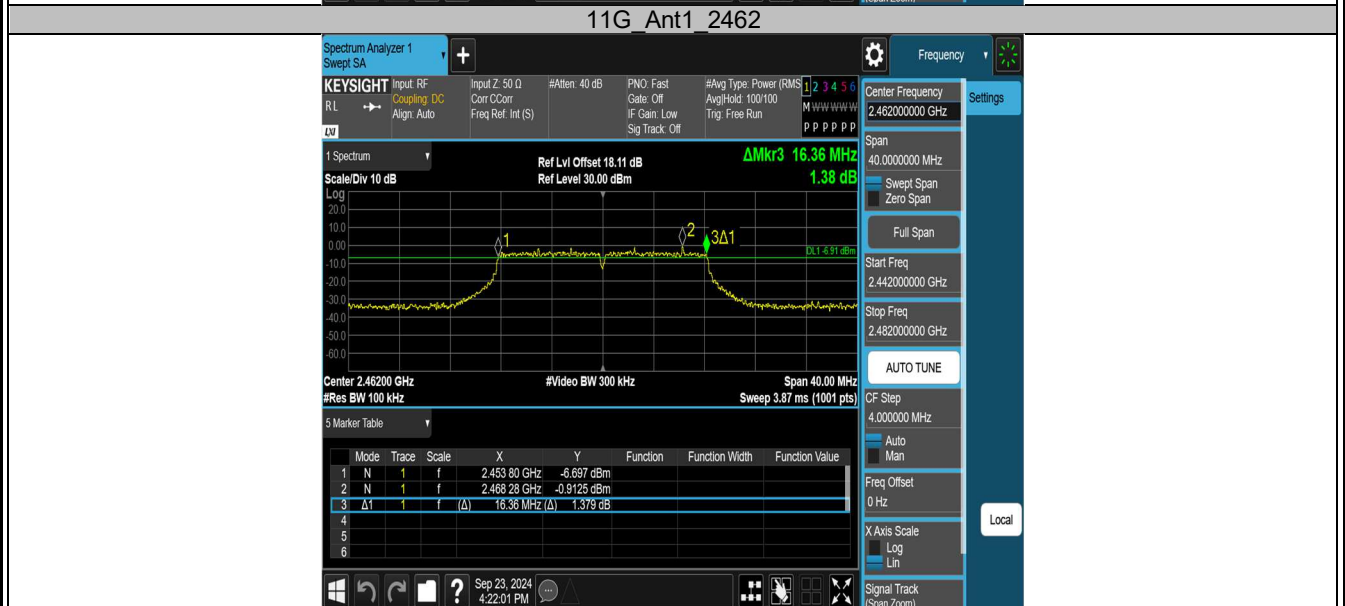
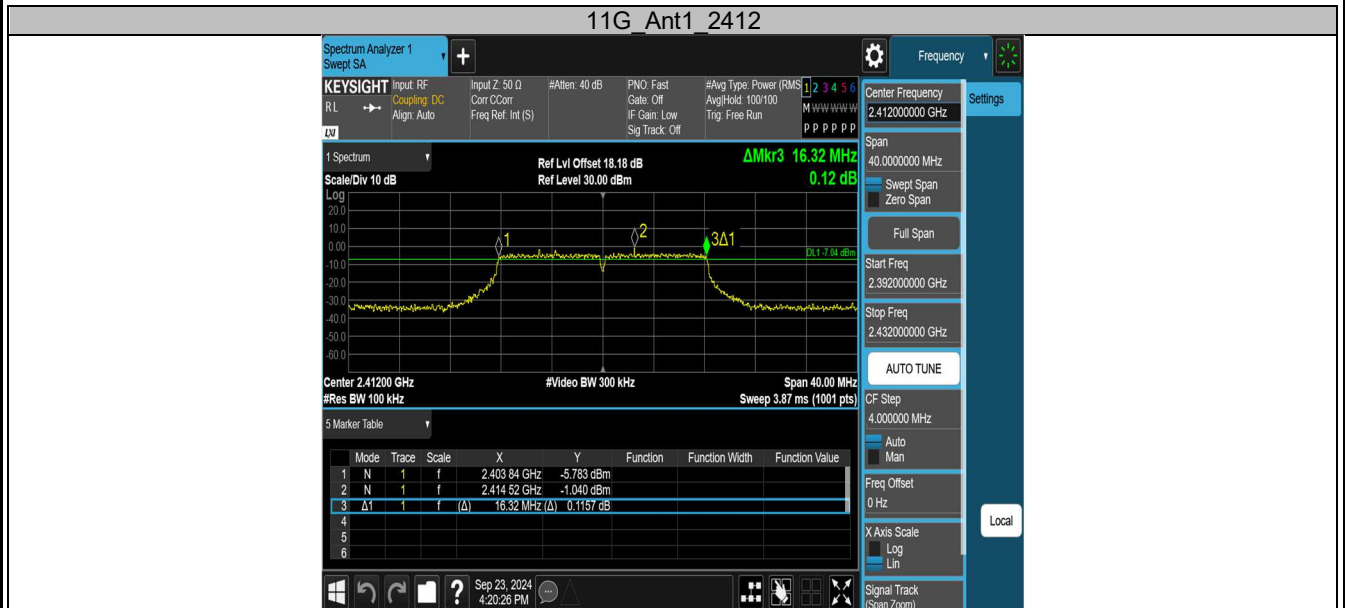


11B\_Ant1\_2437



11B\_Ant1\_2462







11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



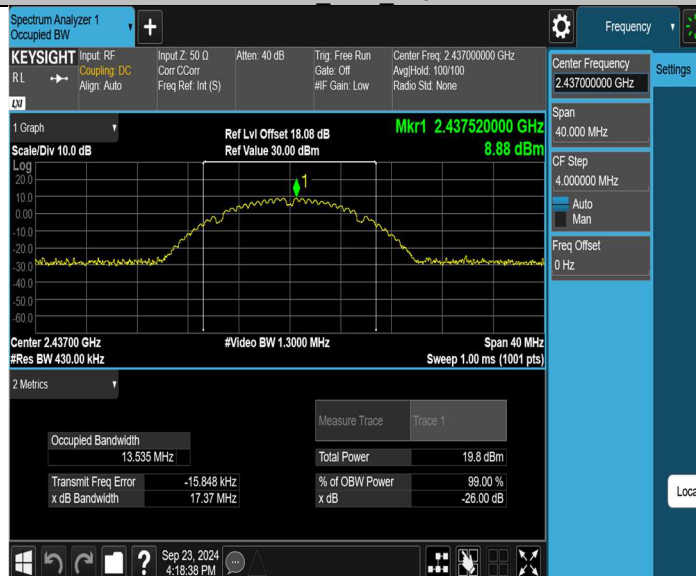
### Appendix B.3: Test Results of 99% Bandwidth

| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412    | 13.577    | 2405.2309 | 2418.8079 | ---        | PASS    |
|           |         | 2437    | 13.535    | 2430.2167 | 2443.7517 | ---        | PASS    |
|           |         | 2462    | 13.493    | 2455.2402 | 2468.7332 | ---        | PASS    |
| 11G       | Ant1    | 2412    | 17.255    | 2403.3519 | 2420.6069 | ---        | PASS    |
|           |         | 2437    | 17.202    | 2428.4148 | 2445.6168 | ---        | PASS    |
|           |         | 2462    | 17.245    | 2453.3896 | 2470.6346 | ---        | PASS    |
| 11N20SISO | Ant1    | 2412    | 18.229    | 2402.9110 | 2421.1400 | ---        | PASS    |
|           |         | 2437    | 18.249    | 2427.8782 | 2446.1272 | ---        | PASS    |
|           |         | 2462    | 18.136    | 2452.9112 | 2471.0472 | ---        | PASS    |
| 11N40SISO | Ant1    | 2422    | 36.466    | 2403.7894 | 2440.2554 | ---        | PASS    |
|           |         | 2437    | 36.500    | 2418.8185 | 2455.3185 | ---        | PASS    |
|           |         | 2452    | 36.498    | 2433.7846 | 2470.2826 | ---        | PASS    |

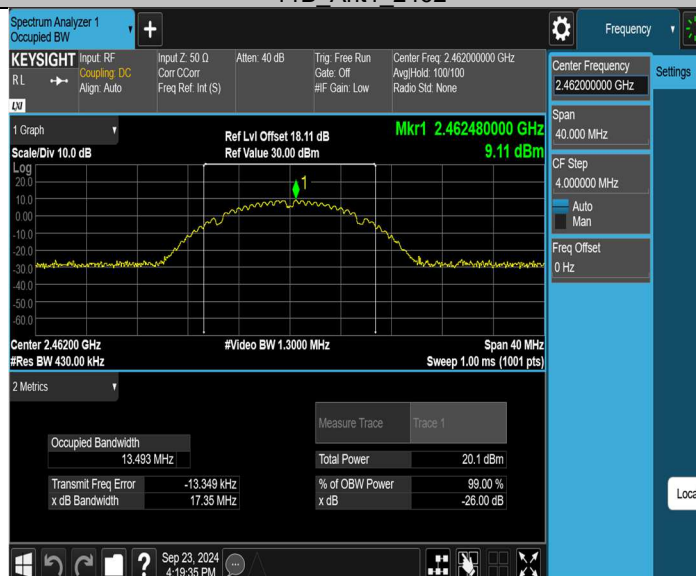
11B\_Ant1\_2412



11B\_Ant1\_2437

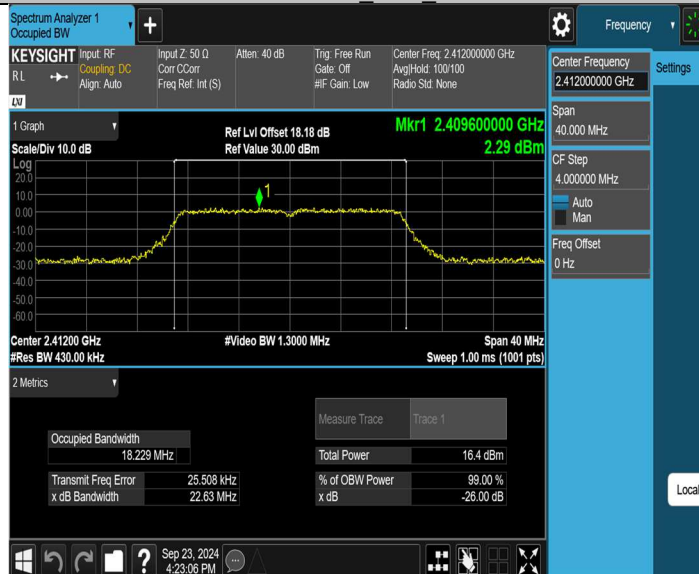


11B\_Ant1\_2462

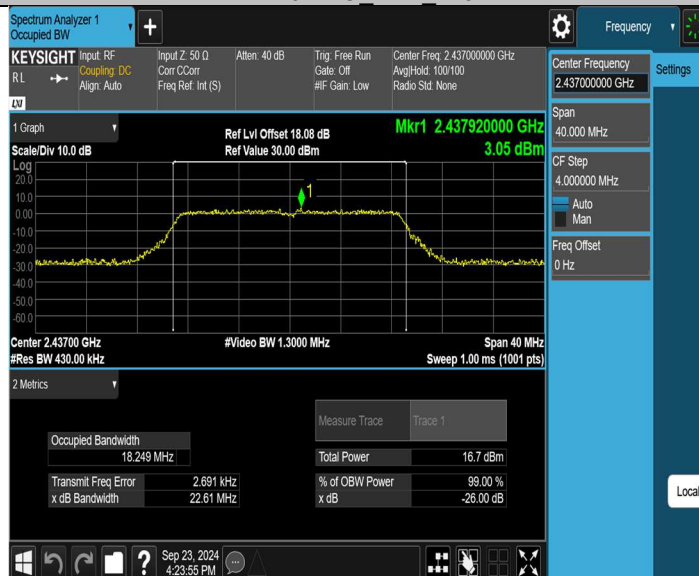




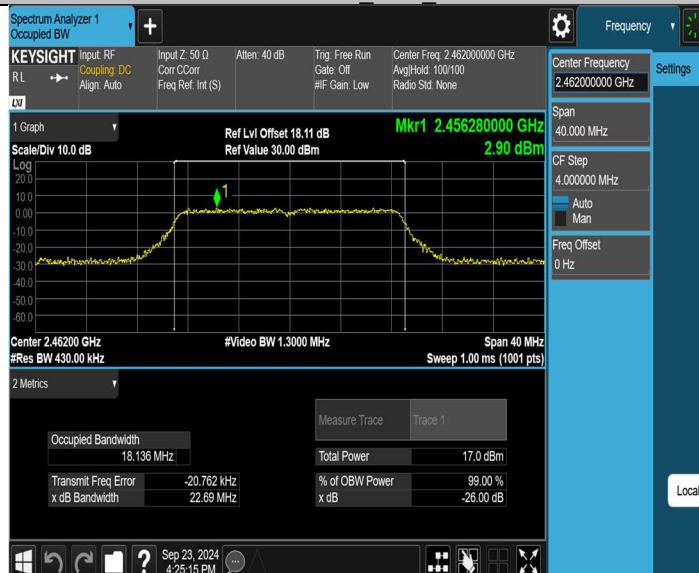
11N20SISO Ant1 2412



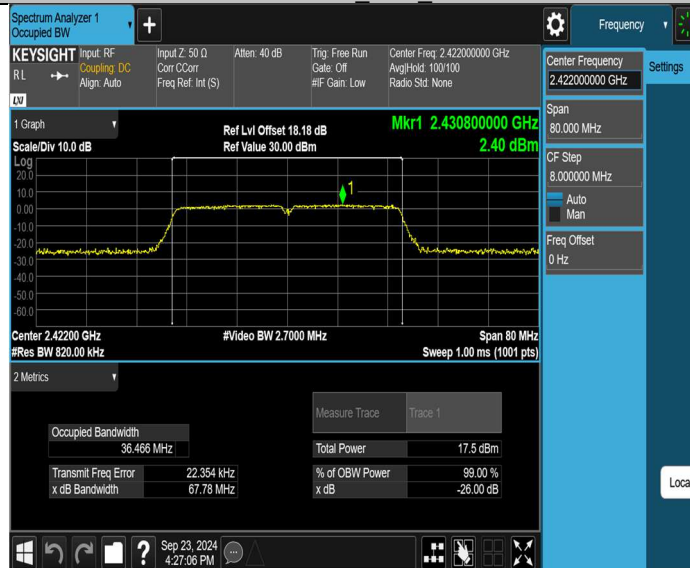
11N20SISO Ant1 2437



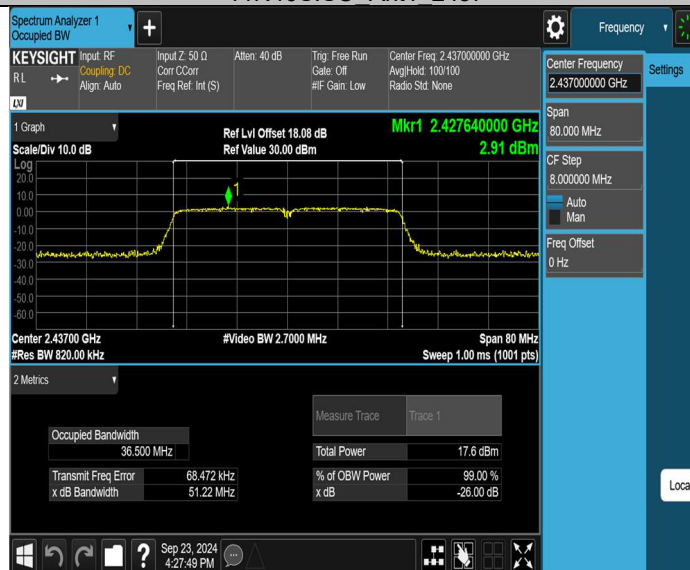
11N20SISO Ant1 2462



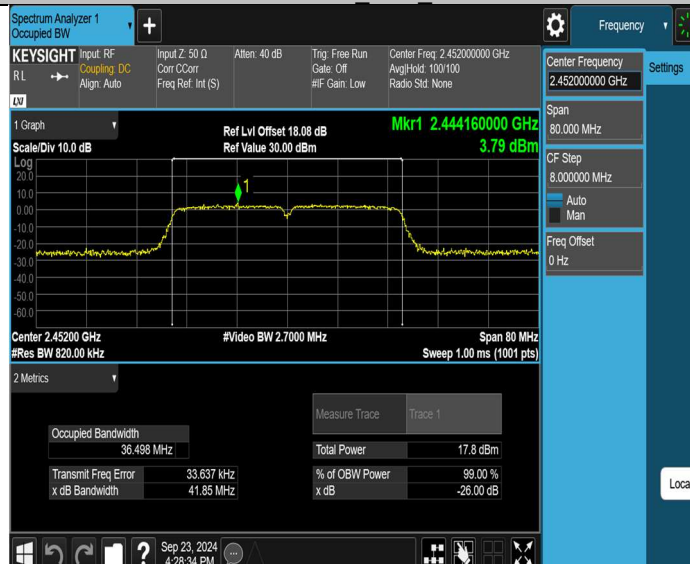
11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



## Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### Band Edge

| TestMode  | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|---------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412    | 11.16         | -35.67      | ≤-8.84     | PASS    |
|           |         | High   | 2462    | 11.84         | -38.97      | ≤-8.16     | PASS    |
| 11G       | Ant1    | Low    | 2412    | 2.81          | -32.21      | ≤-17.19    | PASS    |
|           |         | High   | 2462    | 3.16          | -37.29      | ≤-16.84    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412    | 2.83          | -33.83      | ≤-17.17    | PASS    |
|           |         | High   | 2462    | 3.27          | -37.03      | ≤-16.73    | PASS    |
| 11N40SISO | Ant1    | Low    | 2422    | 0.33          | -35.12      | ≤-19.67    | PASS    |
|           |         | High   | 2452    | 0.28          | -36.98      | ≤-19.72    | PASS    |

### 11B Ant1 Low 2412



### 11B Ant1 High 2462



### 11G Ant1 Low 2412



### 11G Ant1 High 2462



### 11N20SISO Ant1 Low 2412



### 11N20SISO Ant1 High 2462

