



## Appendix Test Data for WLAN(2. 4G) (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: X5S

FCC ID: 2A7PI-X5S

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.5°C    |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Allen Lai |
| Supervised by:     | Max Zhang |
| NOTE               | N/A       |

## Appendix A: DTS Bandwidth

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | DTS BW<br>[MHz] | FL<br>[MHz] | FH<br>[MHz] | Limit<br>[MHz] | Verdict |
|-----------|---------|--------------------|-----------------|-------------|-------------|----------------|---------|
| 11B       | Ant1    | 2412               | 9.040           | 2407.480    | 2416.520    | 0.5            | PASS    |
| 11B       | Ant2    | 2412               | 9.040           | 2407.480    | 2416.520    | 0.5            | PASS    |
| 11B       | Ant1    | 2437               | 8.520           | 2432.480    | 2441.000    | 0.5            | PASS    |
| 11B       | Ant2    | 2437               | 8.600           | 2432.440    | 2441.040    | 0.5            | PASS    |
| 11B       | Ant1    | 2462               | 8.600           | 2457.920    | 2466.520    | 0.5            | PASS    |
| 11B       | Ant2    | 2462               | 8.640           | 2457.920    | 2466.560    | 0.5            | PASS    |
| 11G       | Ant1    | 2412               | 15.120          | 2404.440    | 2419.560    | 0.5            | PASS    |
| 11G       | Ant2    | 2412               | 15.800          | 2404.080    | 2419.880    | 0.5            | PASS    |
| 11G       | Ant1    | 2437               | 15.120          | 2429.440    | 2444.560    | 0.5            | PASS    |
| 11G       | Ant2    | 2437               | 15.040          | 2429.480    | 2444.520    | 0.5            | PASS    |
| 11G       | Ant1    | 2462               | 14.400          | 2455.120    | 2469.520    | 0.5            | PASS    |
| 11G       | Ant2    | 2462               | 16.080          | 2454.040    | 2470.120    | 0.5            | PASS    |
| 11N20MIMO | Ant1    | 2412               | 15.760          | 2404.400    | 2420.160    | 0.5            | PASS    |
| 11N20MIMO | Ant2    | 2412               | 16.240          | 2404.120    | 2420.360    | 0.5            | PASS    |
| 11N20MIMO | Ant1    | 2437               | 15.120          | 2429.440    | 2444.560    | 0.5            | PASS    |
| 11N20MIMO | Ant2    | 2437               | 16.000          | 2429.160    | 2445.160    | 0.5            | PASS    |
| 11N20MIMO | Ant1    | 2462               | 16.320          | 2454.120    | 2470.440    | 0.5            | PASS    |
| 11N20MIMO | Ant2    | 2462               | 16.600          | 2454.120    | 2470.720    | 0.5            | PASS    |
| 11N40MIMO | Ant1    | 2422               | 35.040          | 2404.480    | 2439.520    | 0.5            | PASS    |
| 11N40MIMO | Ant2    | 2422               | 35.040          | 2404.480    | 2439.520    | 0.5            | PASS    |
| 11N40MIMO | Ant1    | 2437               | 35.040          | 2419.480    | 2454.520    | 0.5            | PASS    |
| 11N40MIMO | Ant2    | 2437               | 35.040          | 2419.480    | 2454.520    | 0.5            | PASS    |





|           |      |      |        |          |          |     |      |
|-----------|------|------|--------|----------|----------|-----|------|
| 11N40MIMO | Ant1 | 2452 | 35.680 | 2433.840 | 2469.520 | 0.5 | PASS |
| 11N40MIMO | Ant2 | 2452 | 35.680 | 2433.840 | 2469.520 | 0.5 | PASS |

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



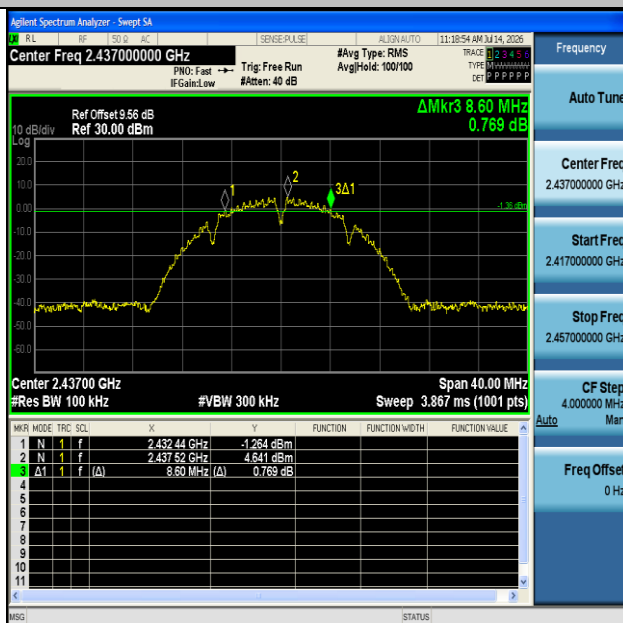


## Test Graphs





11B-Ant1-2437-PASS



11B-Ant2-2437-PASS





11B-Ant1-2462-PASS



11B-Ant2-2462-PASS





11G-Ant1-2412-PASS

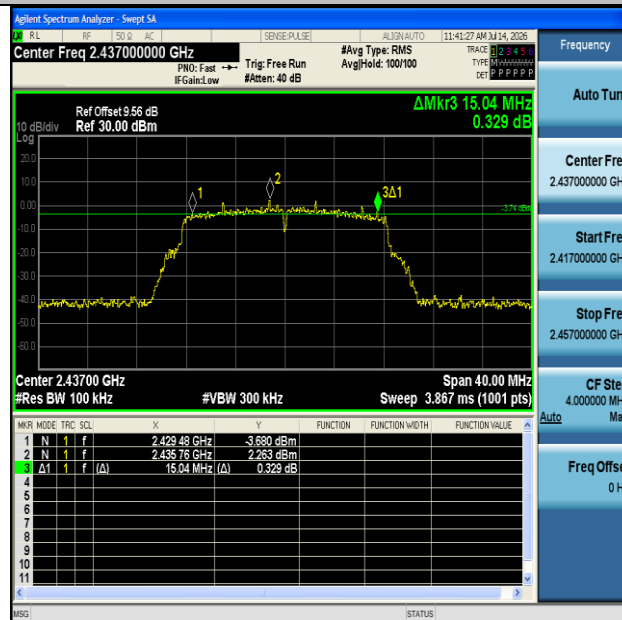


11G-Ant2-2412-PASS





11G-Ant1-2437-PASS

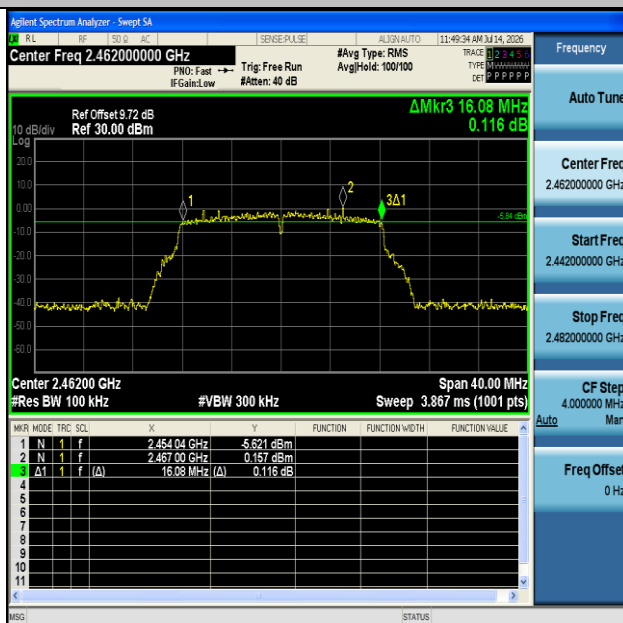


11G-Ant2-2437-PASS



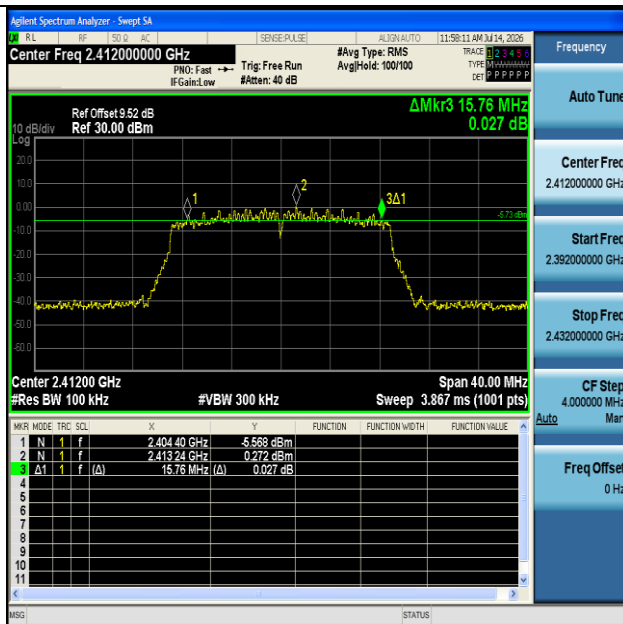


11G-Ant1-2462-PASS

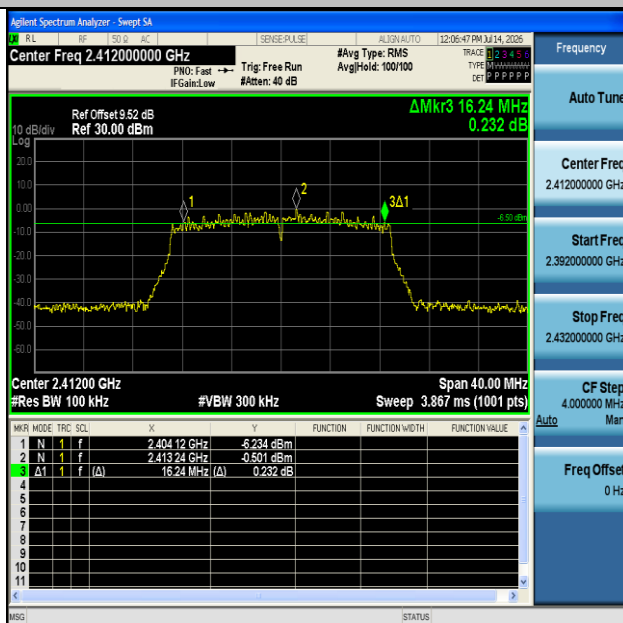


11G-Ant2-2462-PASS



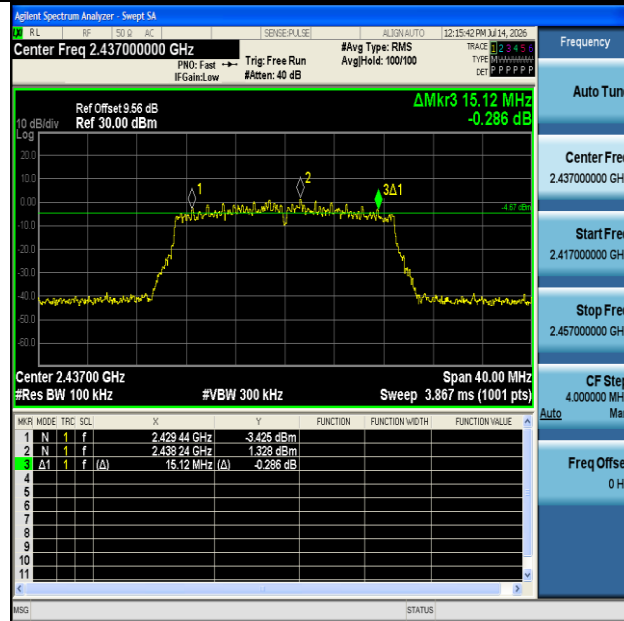


11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



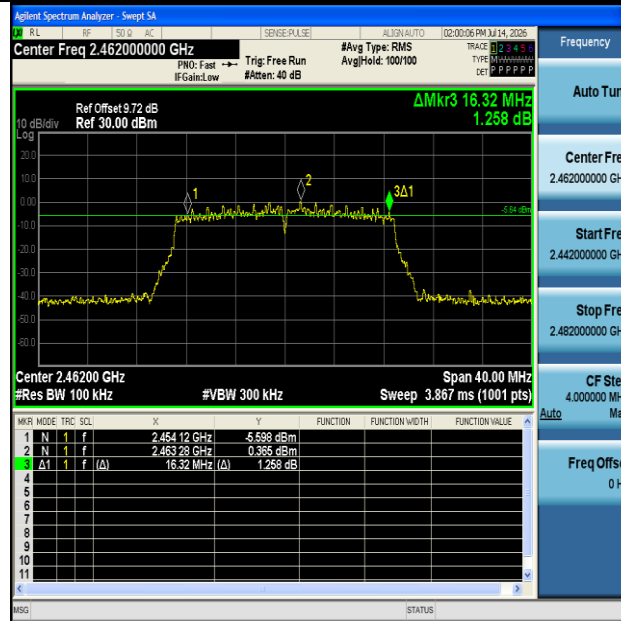


11N20MIMO-Ant1-2437-PASS

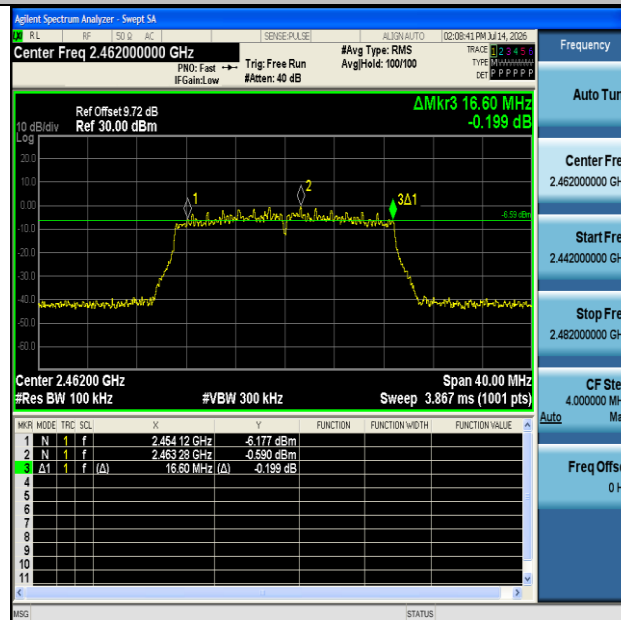


11N20MIMO-Ant2-2437-PASS



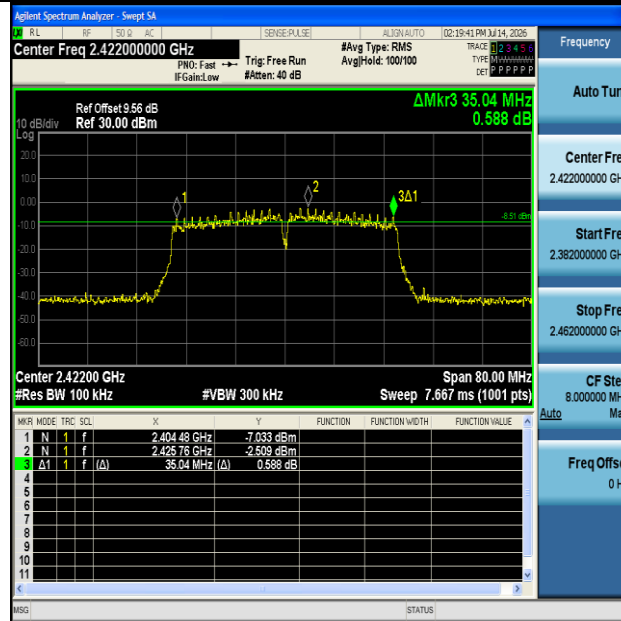


11N20MIMO-Ant1-2462-PASS

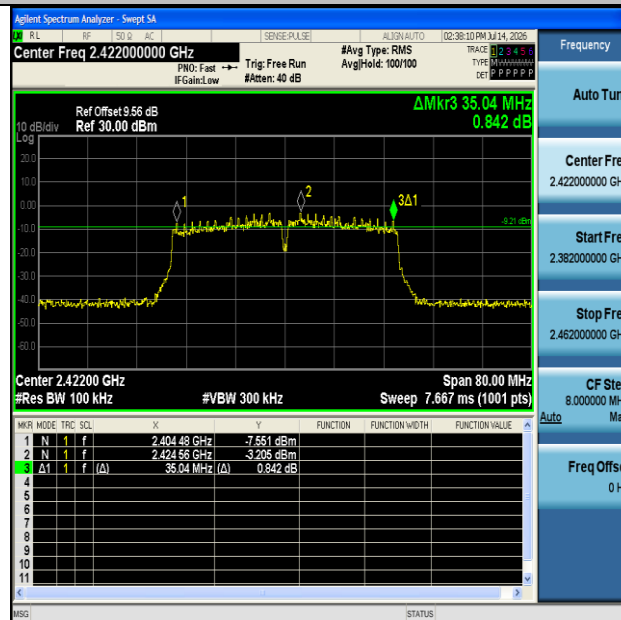


11N20MIMO-Ant2-2462-PASS



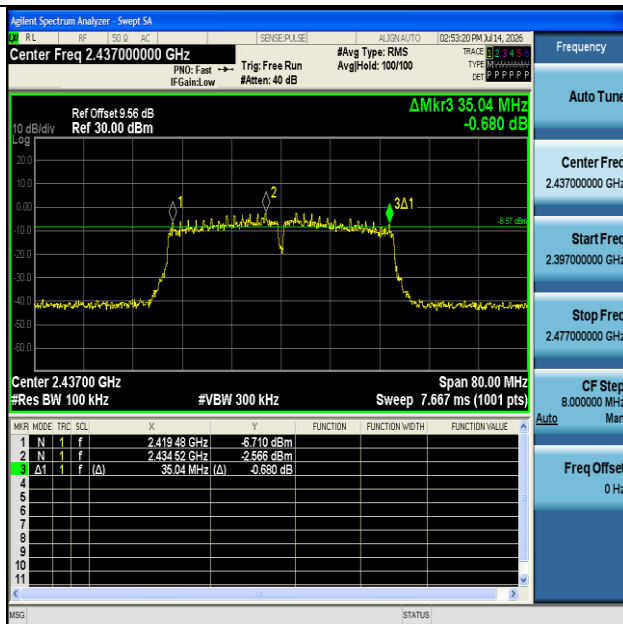


11N40MIMO-Ant1-2422-PASS

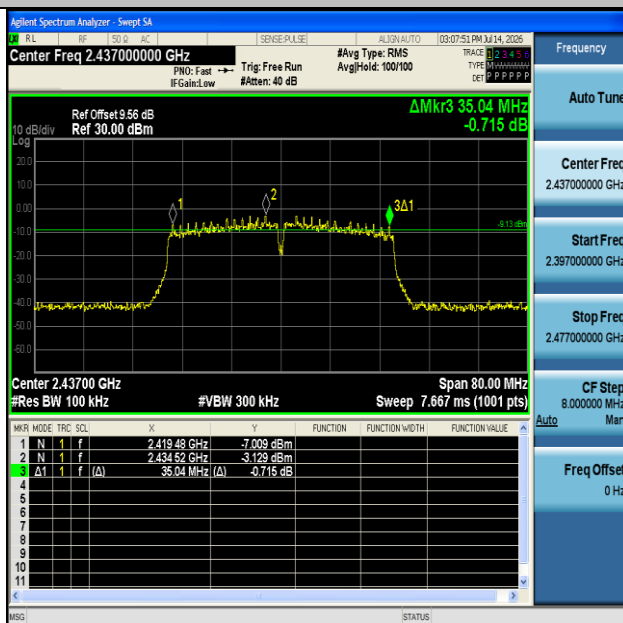


11N40MIMO-Ant2-2422-PASS



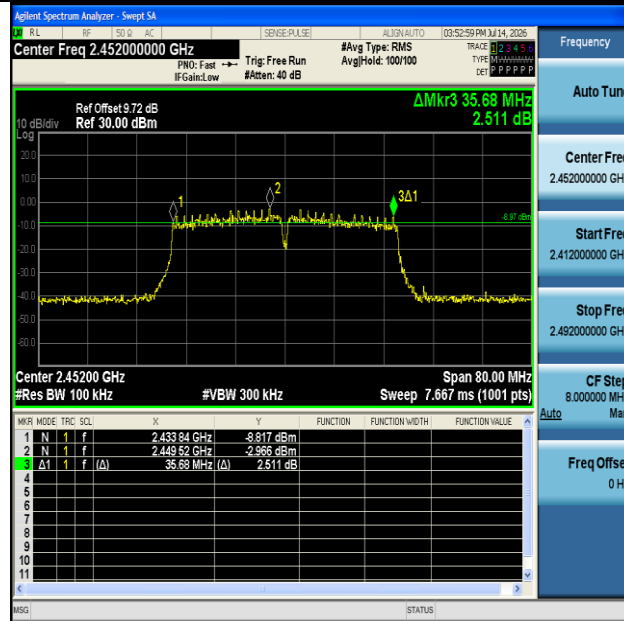


11N40MIMO-Ant1-2437-PASS

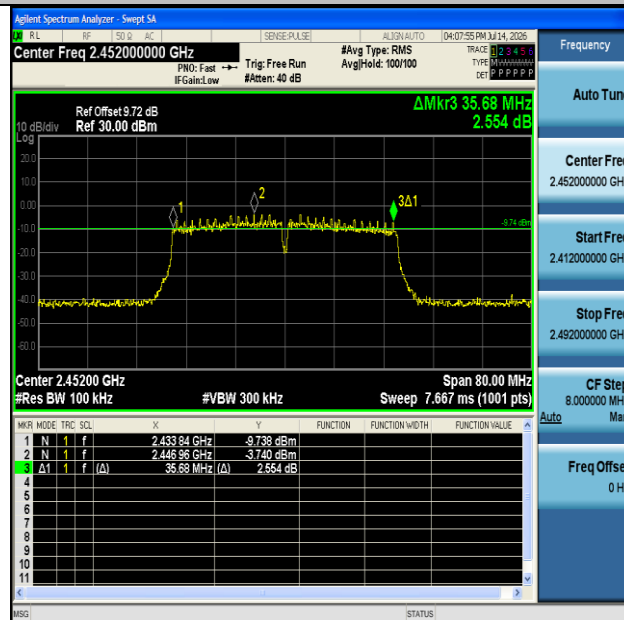


11N40MIMO-Ant2-2437-PASS





11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS





## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Channel Frequency [MHz] | OCB [MHz] | FL [MHz]  | FH [MHz]  | Limit [MHz] | Verdict |
|-----------|---------|-------------------------|-----------|-----------|-----------|-------------|---------|
| 11B       | Ant1    | 2412                    | 13.577    | 2405.3065 | 2418.8835 | ---         | ---     |
| 11B       | Ant2    | 2412                    | 13.536    | 2405.3190 | 2418.8550 | ---         | ---     |
| 11B       | Ant1    | 2437                    | 13.338    | 2430.3142 | 2443.6522 | ---         | ---     |
| 11B       | Ant2    | 2437                    | 13.368    | 2430.2834 | 2443.6514 | ---         | ---     |
| 11B       | Ant1    | 2462                    | 13.569    | 2455.2786 | 2468.8476 | ---         | ---     |
| 11B       | Ant2    | 2462                    | 13.605    | 2455.2695 | 2468.8745 | ---         | ---     |
| 11G       | Ant1    | 2412                    | 16.863    | 2403.5549 | 2420.4179 | ---         | ---     |
| 11G       | Ant2    | 2412                    | 16.670    | 2403.6658 | 2420.3358 | ---         | ---     |
| 11G       | Ant1    | 2437                    | 16.782    | 2428.5375 | 2445.3195 | ---         | ---     |
| 11G       | Ant2    | 2437                    | 16.588    | 2428.7089 | 2445.2969 | ---         | ---     |
| 11G       | Ant1    | 2462                    | 16.907    | 2453.5862 | 2470.4932 | ---         | ---     |
| 11G       | Ant2    | 2462                    | 16.669    | 2453.7009 | 2470.3699 | ---         | ---     |
| 11N20MIMO | Ant1    | 2412                    | 17.735    | 2403.1829 | 2420.9179 | ---         | ---     |
| 11N20MIMO | Ant2    | 2412                    | 17.702    | 2403.2118 | 2420.9138 | ---         | ---     |
| 11N20MIMO | Ant1    | 2437                    | 17.681    | 2428.1617 | 2445.8427 | ---         | ---     |
| 11N20MIMO | Ant2    | 2437                    | 17.688    | 2428.1713 | 2445.8593 | ---         | ---     |
| 11N20MIMO | Ant1    | 2462                    | 17.797    | 2453.1507 | 2470.9477 | ---         | ---     |
| 11N20MIMO | Ant2    | 2462                    | 17.724    | 2453.1717 | 2470.8957 | ---         | ---     |
| 11N40MIMO | Ant1    | 2422                    | 36.184    | 2404.0314 | 2440.2154 | ---         | ---     |
| 11N40MIMO | Ant2    | 2422                    | 36.063    | 2404.0541 | 2440.1171 | ---         | ---     |
| 11N40MIMO | Ant1    | 2437                    | 35.983    | 2419.0095 | 2454.9925 | ---         | ---     |
| 11N40MIMO | Ant2    | 2437                    | 36.104    | 2418.9811 | 2455.0851 | ---         | ---     |
| 11N40MIMO | Ant1    | 2452                    | 36.252    | 2433.9237 | 2470.1757 | ---         | ---     |
| 11N40MIMO | Ant2    | 2452                    | 36.339    | 2433.8637 | 2470.2027 | ---         | ---     |

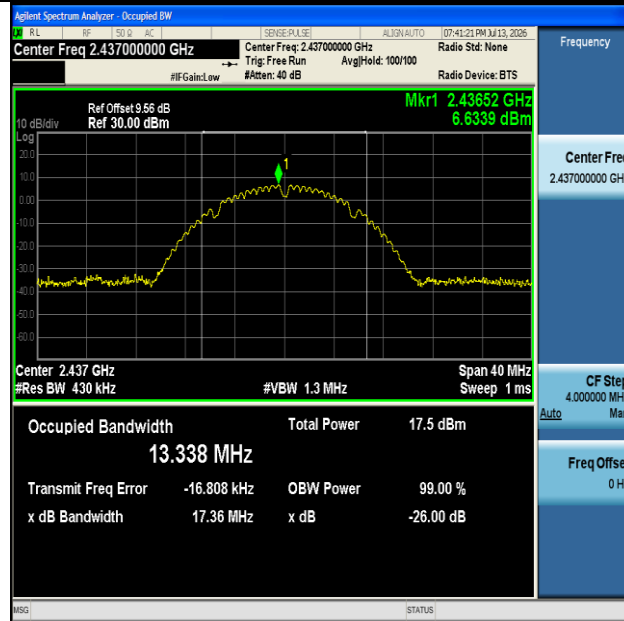
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



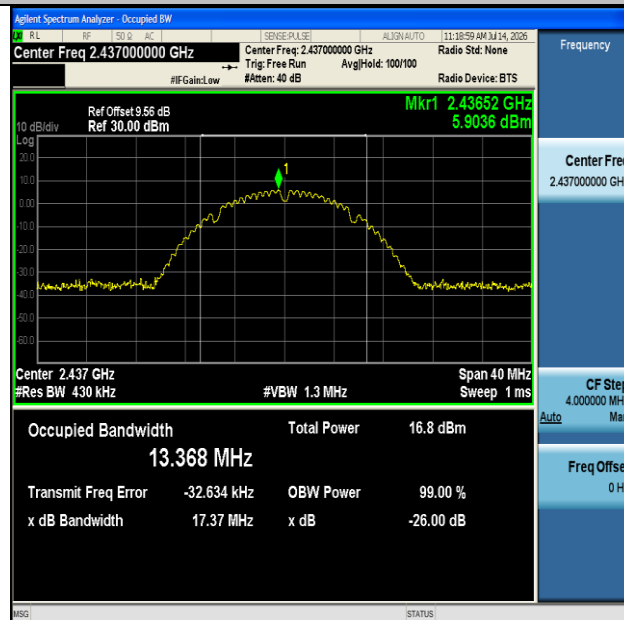


## Test Graphs



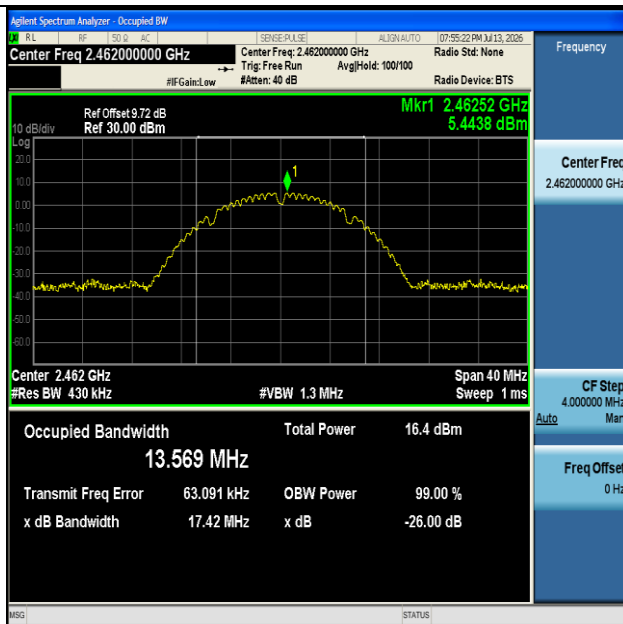


11B-Ant1-2437

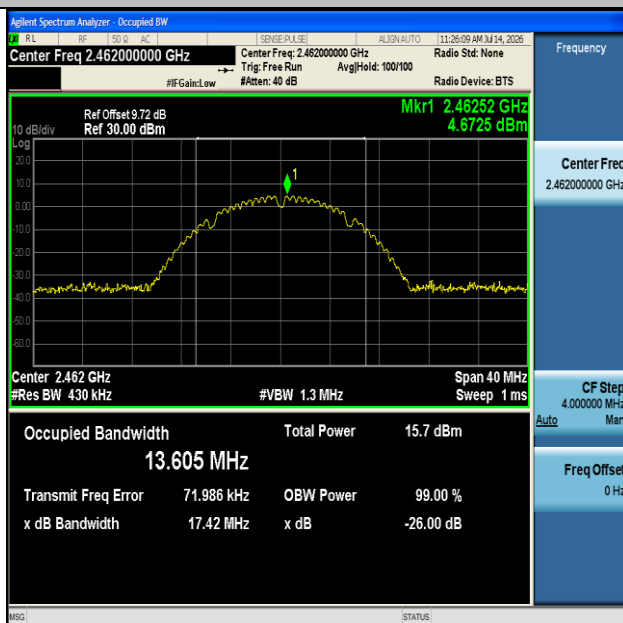


11B-Ant2-2437



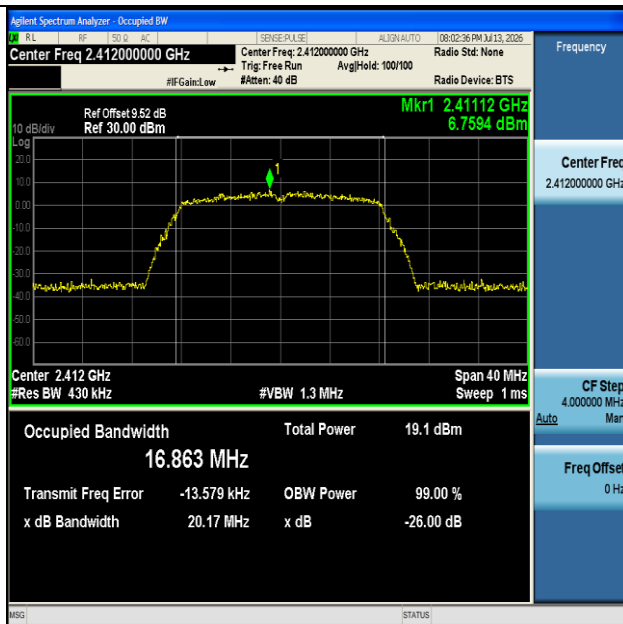


11B-Ant1-2462

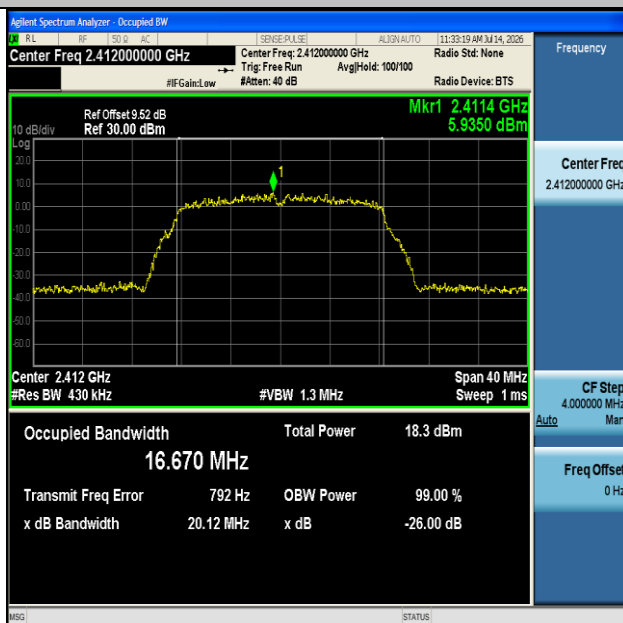


11B-Ant2-2462



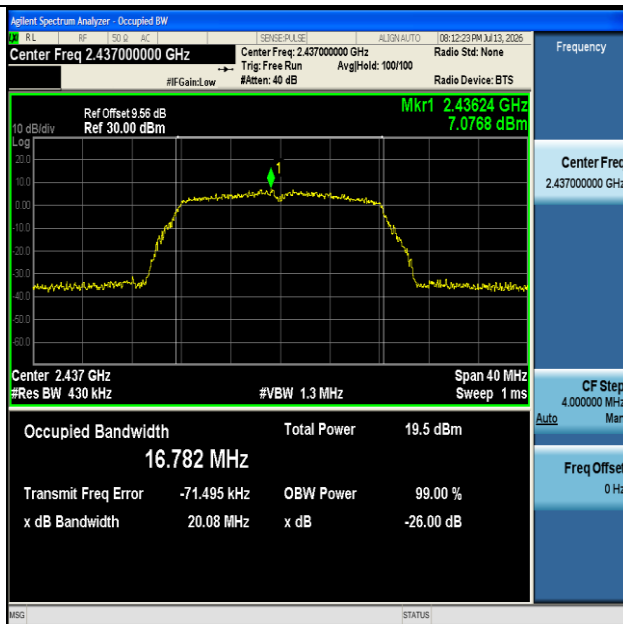


11G-Ant1-2412

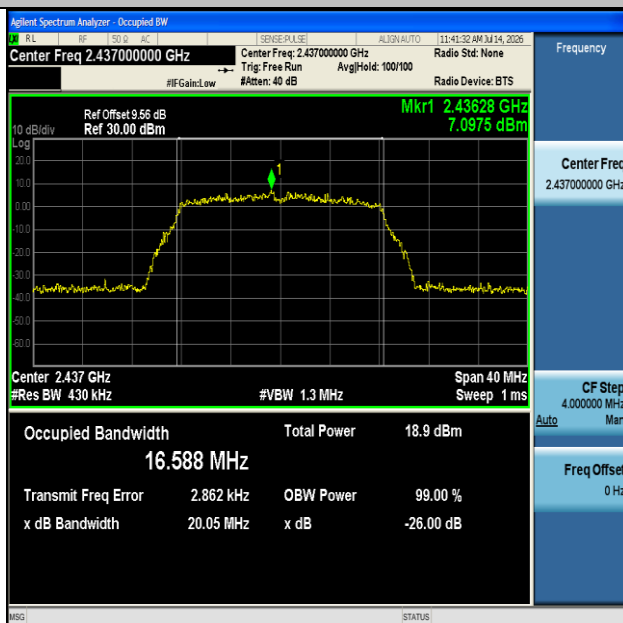


11G-Ant2-2412



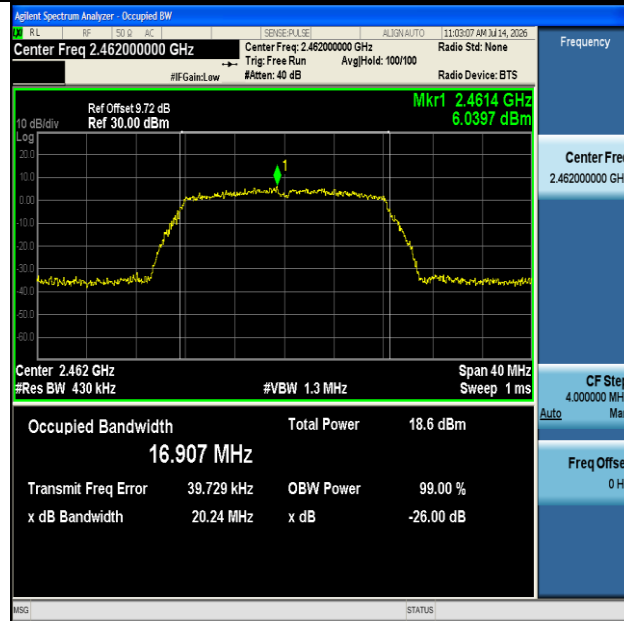


11G-Ant1-2437

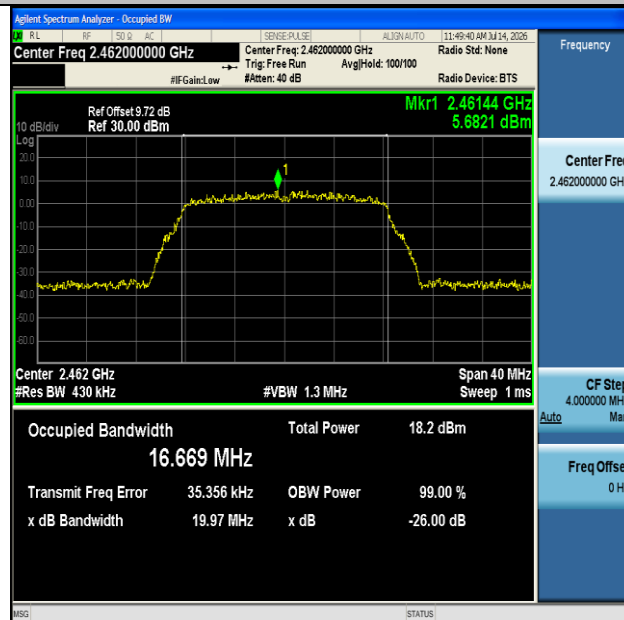


11G-Ant2-2437



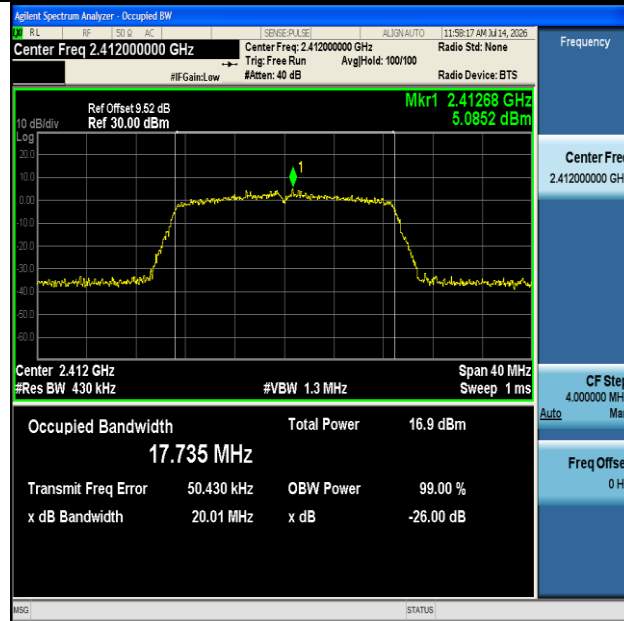


11G-Ant1-2462

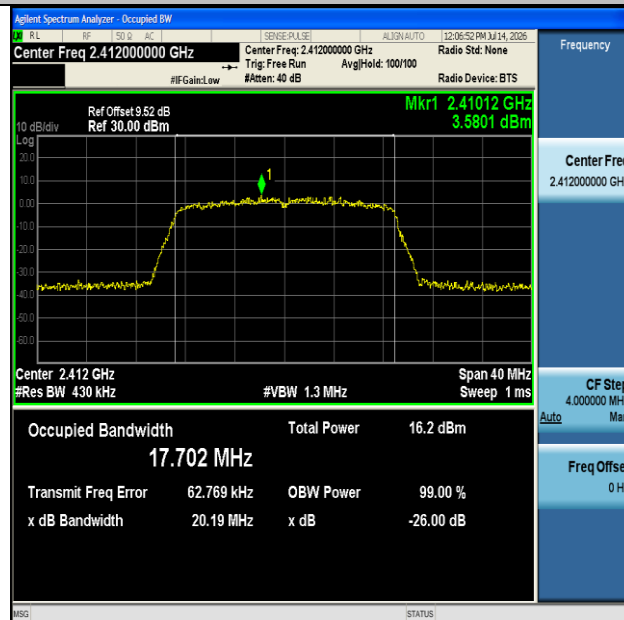


11G-Ant2-2462



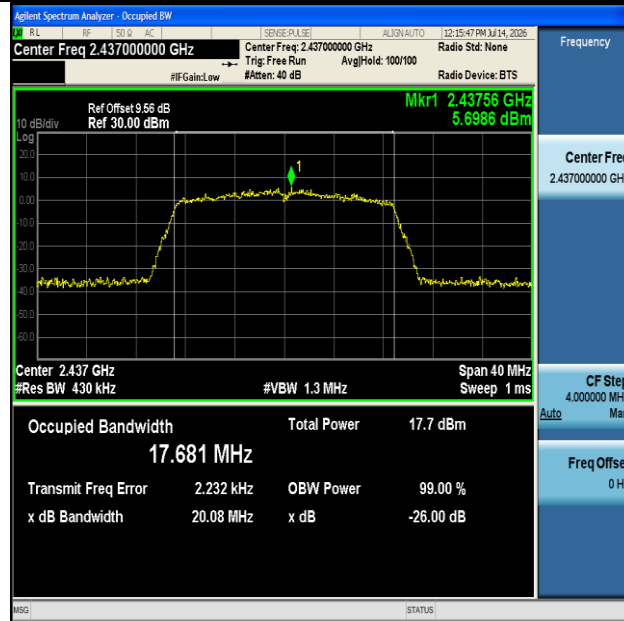


11N20MIMO-Ant1-2412

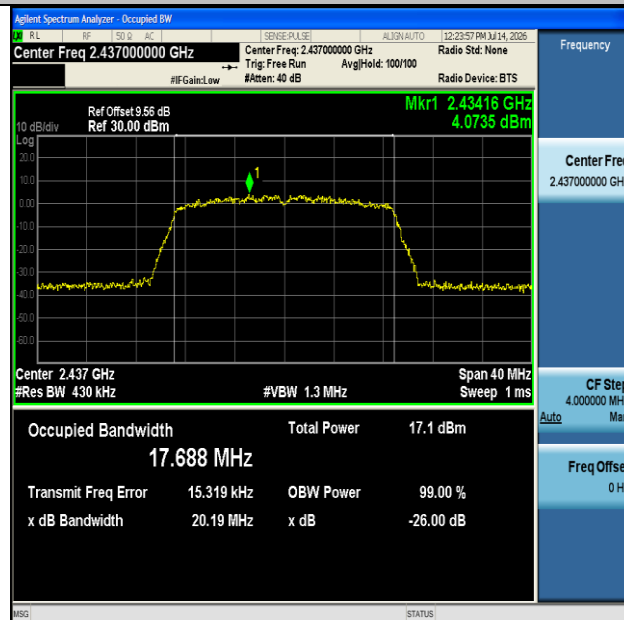


11N20MIMO-Ant2-2412



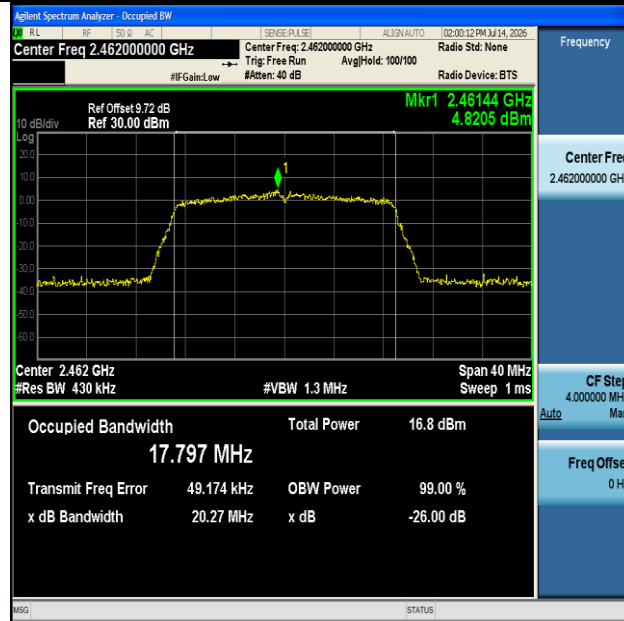


11N20MIMO-Ant1-2437

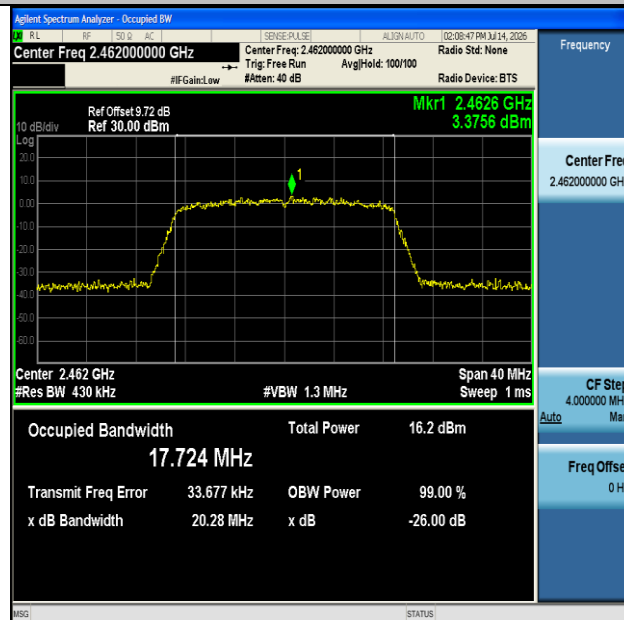


11N20MIMO-Ant2-2437





11N20MIMO-Ant1-2462

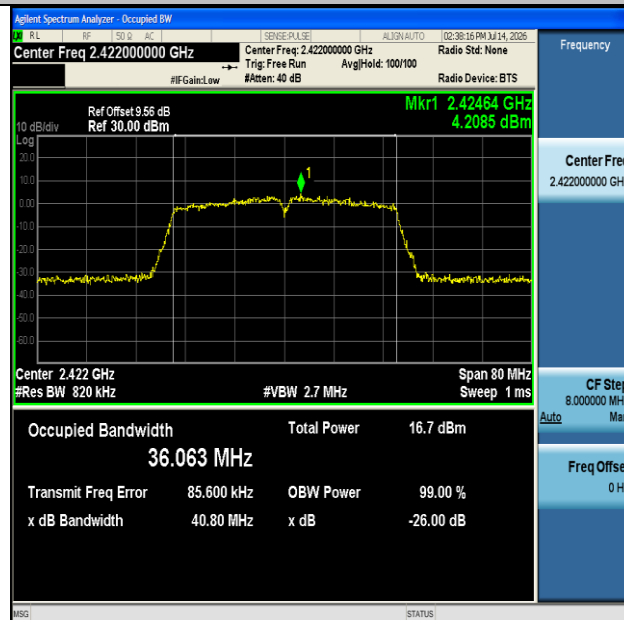


11N20MIMO-Ant2-2462



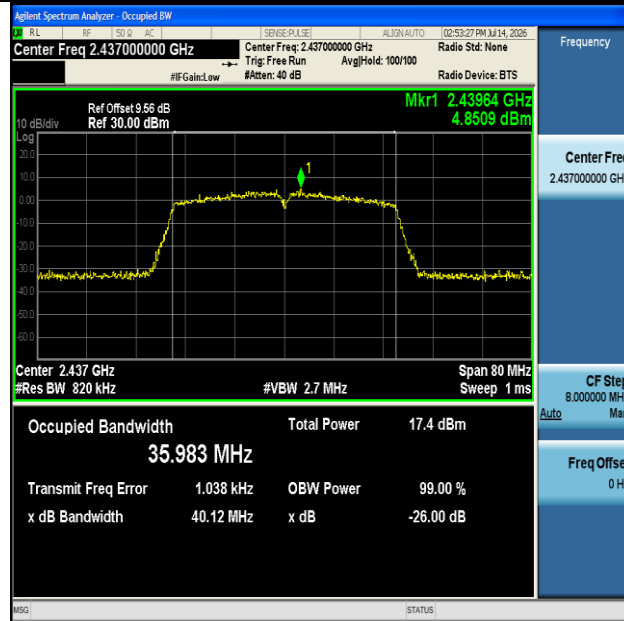


11N40MIMO-Ant1-2422

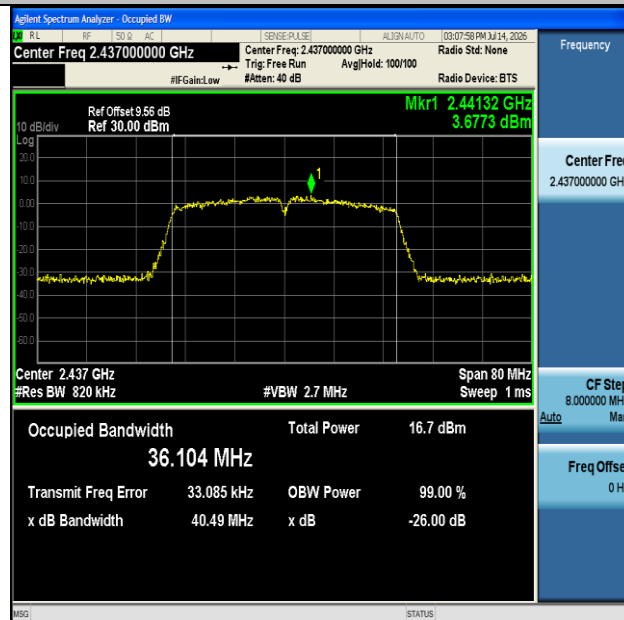


11N40MIMO-Ant2-2422





11N40MIMO-Ant1-2437



11N40MIMO-Ant2-2437





11N40MIMO-Ant1-2452



11N40MIMO-Ant2-2452





## Appendix C: Maximum Average conducted output power

### Test Result

| Test Mode | Antenna | Frequency<br>[MHz] | Conducted Power<br>[dBm] | Conducted Limit<br>[dBm] | Verdict |
|-----------|---------|--------------------|--------------------------|--------------------------|---------|
| 11B       | Ant1    | 2412               | 13.56                    | ≤30.00                   | PASS    |
| 11B       | Ant2    | 2412               | 12.64                    | ≤30.00                   | PASS    |
| 11B       | Ant1    | 2437               | 14.58                    | ≤30.00                   | PASS    |
| 11B       | Ant2    | 2437               | 13.84                    | ≤30.00                   | PASS    |
| 11B       | Ant1    | 2462               | 13.47                    | ≤30.00                   | PASS    |
| 11B       | Ant2    | 2462               | 12.71                    | ≤30.00                   | PASS    |
| 11G       | Ant1    | 2412               | 13.09                    | ≤30.00                   | PASS    |
| 11G       | Ant2    | 2412               | 12.06                    | ≤30.00                   | PASS    |
| 11G       | Ant1    | 2437               | 13.64                    | ≤30.00                   | PASS    |
| 11G       | Ant2    | 2437               | 12.65                    | ≤30.00                   | PASS    |
| 11G       | Ant1    | 2462               | 12.66                    | ≤30.00                   | PASS    |
| 11G       | Ant2    | 2462               | 11.93                    | ≤30.00                   | PASS    |
| 11N20MIMO | Ant1    | 2412               | 10.77                    | ≤30.00                   | PASS    |
| 11N20MIMO | Ant2    | 2412               | 10.03                    | ≤30.00                   | PASS    |
| 11N20MIMO | total   | 2412               | 13.43                    | ≤30.00                   | PASS    |
| 11N20MIMO | Ant1    | 2437               | 11.63                    | ≤30.00                   | PASS    |
| 11N20MIMO | Ant2    | 2437               | 10.87                    | ≤30.00                   | PASS    |
| 11N20MIMO | total   | 2437               | 14.28                    | ≤30.00                   | PASS    |
| 11N20MIMO | Ant1    | 2462               | 10.82                    | ≤30.00                   | PASS    |
| 11N20MIMO | Ant2    | 2462               | 10.07                    | ≤30.00                   | PASS    |
| 11N20MIMO | total   | 2462               | 13.47                    | ≤30.00                   | PASS    |
| 11N40MIMO | Ant1    | 2422               | 10.81                    | ≤30.00                   | PASS    |
| 11N40MIMO | Ant2    | 2422               | 10.17                    | ≤30.00                   | PASS    |
| 11N40MIMO | total   | 2422               | 13.51                    | ≤30.00                   | PASS    |
| 11N40MIMO | Ant1    | 2437               | 10.80                    | ≤30.00                   | PASS    |
| 11N40MIMO | Ant2    | 2437               | 10.15                    | ≤30.00                   | PASS    |
| 11N40MIMO | total   | 2437               | 13.50                    | ≤30.00                   | PASS    |
| 11N40MIMO | Ant1    | 2452               | 10.56                    | ≤30.00                   | PASS    |
| 11N40MIMO | Ant2    | 2452               | 9.81                     | ≤30.00                   | PASS    |
| 11N40MIMO | total   | 2452               | 13.21                    | ≤30.00                   | PASS    |

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)





## Appendix D: Maximum Average power spectral density

### Test Result

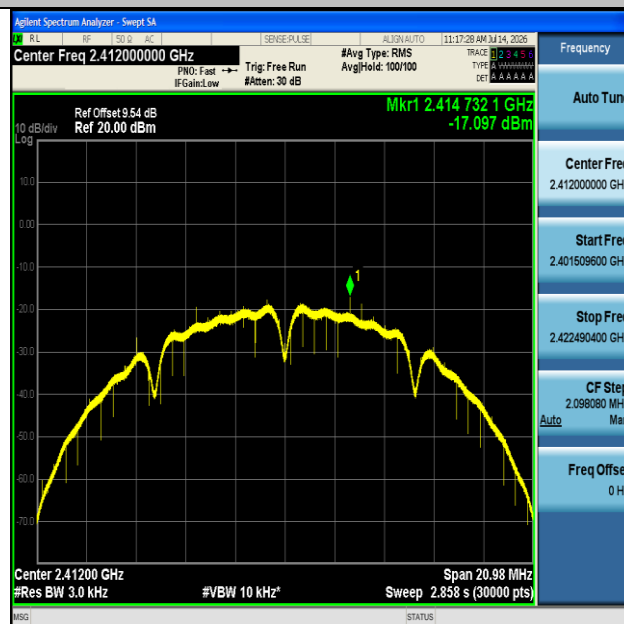
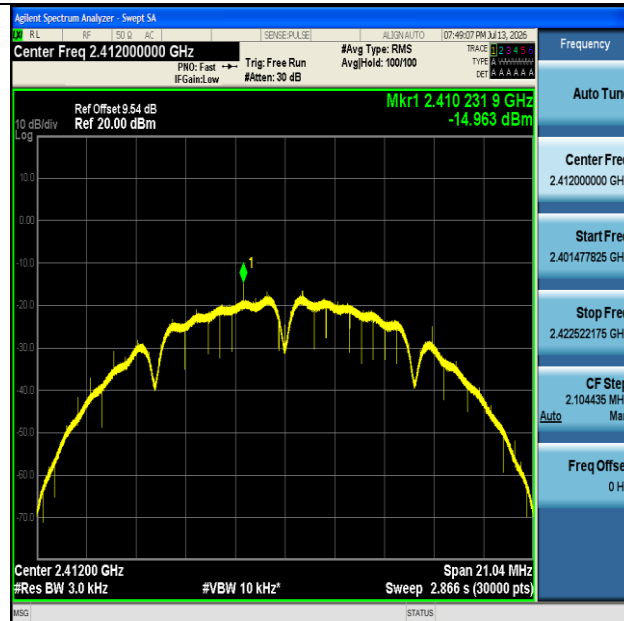
| Test Mode | Antenna | Frequency [MHz] | Raw. Data [dBm/3kHz] | Dc. Factor | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|-----------------|----------------------|------------|-------------------|------------------|---------|
| 11B       | Ant1    | 2412            | -14.98               | 0.02       | -14.96            | ≤8.00            | PASS    |
| 11B       | Ant2    | 2412            | -17.12               | 0.02       | -17.10            | ≤8.00            | PASS    |
| 11B       | Ant1    | 2437            | -13.96               | 0.02       | -13.94            | ≤8.00            | PASS    |
| 11B       | Ant2    | 2437            | -16.09               | 0.02       | -16.07            | ≤8.00            | PASS    |
| 11B       | Ant1    | 2462            | -12.45               | 0.02       | -12.43            | ≤8.00            | PASS    |
| 11B       | Ant2    | 2462            | -15.04               | 0.02       | -15.02            | ≤8.00            | PASS    |
| 11G       | Ant1    | 2412            | -18.63               | 0.18       | -18.45            | ≤8.00            | PASS    |
| 11G       | Ant2    | 2412            | -19.68               | 0.18       | -19.50            | ≤8.00            | PASS    |
| 11G       | Ant1    | 2437            | -18.22               | 0.18       | -18.04            | ≤8.00            | PASS    |
| 11G       | Ant2    | 2437            | -18.85               | 0.18       | -18.67            | ≤8.00            | PASS    |
| 11G       | Ant1    | 2462            | -19.44               | 0.18       | -19.26            | ≤8.00            | PASS    |
| 11G       | Ant2    | 2462            | -20.02               | 0.18       | -19.84            | ≤8.00            | PASS    |
| 11N20MIMO | Ant1    | 2412            | -19.48               | 1.38       | -18.10            | ≤8.00            | PASS    |
| 11N20MIMO | Ant2    | 2412            | -19.52               | 1.38       | -18.14            | ≤8.00            | PASS    |
| 11N20MIMO | total   | 2412            | ---                  | ---        | -15.11            | ≤7.43            | PASS    |
| 11N20MIMO | Ant1    | 2437            | -18.40               | 1.38       | -17.02            | ≤8.00            | PASS    |
| 11N20MIMO | Ant2    | 2437            | -18.64               | 1.38       | -17.26            | ≤8.00            | PASS    |
| 11N20MIMO | total   | 2437            | ---                  | ---        | -14.13            | ≤7.43            | PASS    |
| 11N20MIMO | Ant1    | 2462            | -19.49               | 1.38       | -18.11            | ≤8.00            | PASS    |
| 11N20MIMO | Ant2    | 2462            | -19.30               | 1.38       | -17.92            | ≤8.00            | PASS    |
| 11N20MIMO | total   | 2462            | ---                  | ---        | -15.00            | ≤7.43            | PASS    |
| 11N40MIMO | Ant1    | 2422            | -20.44               | 2.04       | -18.40            | ≤8.00            | PASS    |
| 11N40MIMO | Ant2    | 2422            | -20.80               | 2.04       | -18.76            | ≤8.00            | PASS    |
| 11N40MIMO | total   | 2422            | ---                  | ---        | -15.57            | ≤7.43            | PASS    |
| 11N40MIMO | Ant1    | 2437            | -19.82               | 2.04       | -17.78            | ≤8.00            | PASS    |
| 11N40MIMO | Ant2    | 2437            | -19.82               | 2.04       | -17.78            | ≤8.00            | PASS    |
| 11N40MIMO | total   | 2437            | ---                  | ---        | -14.77            | ≤7.43            | PASS    |
| 11N40MIMO | Ant1    | 2452            | -20.91               | 2.04       | -18.87            | ≤8.00            | PASS    |
| 11N40MIMO | Ant2    | 2452            | -20.63               | 2.04       | -18.59            | ≤8.00            | PASS    |
| 11N40MIMO | total   | 2452            | ---                  | ---        | -15.72            | ≤7.43            | PASS    |

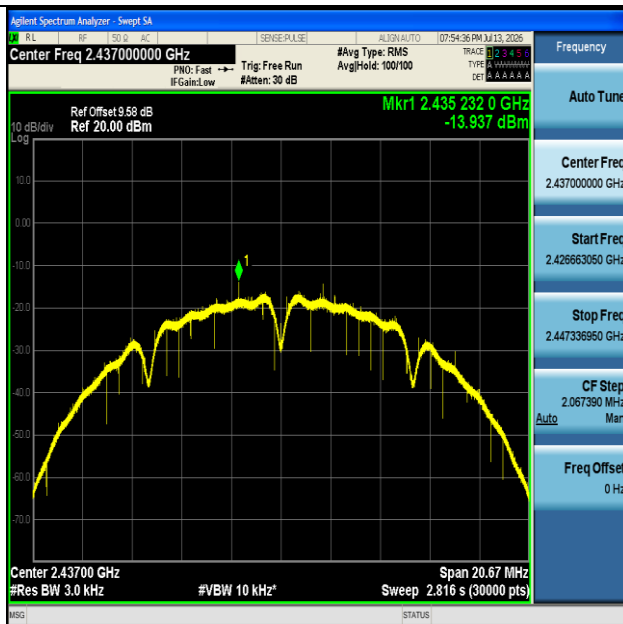
Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)



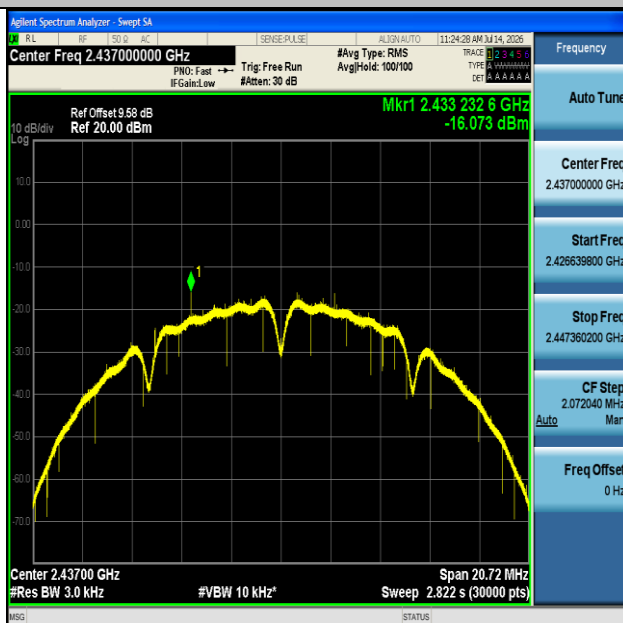


## Test Graphs



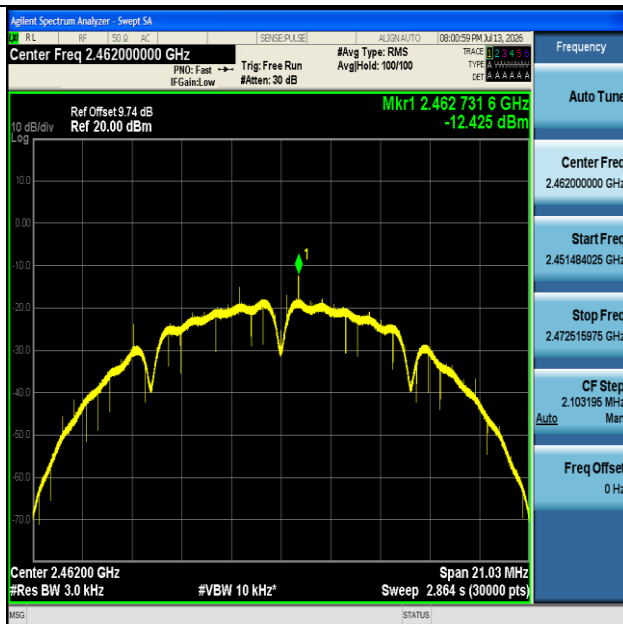


11B-Ant1-2437-PASS

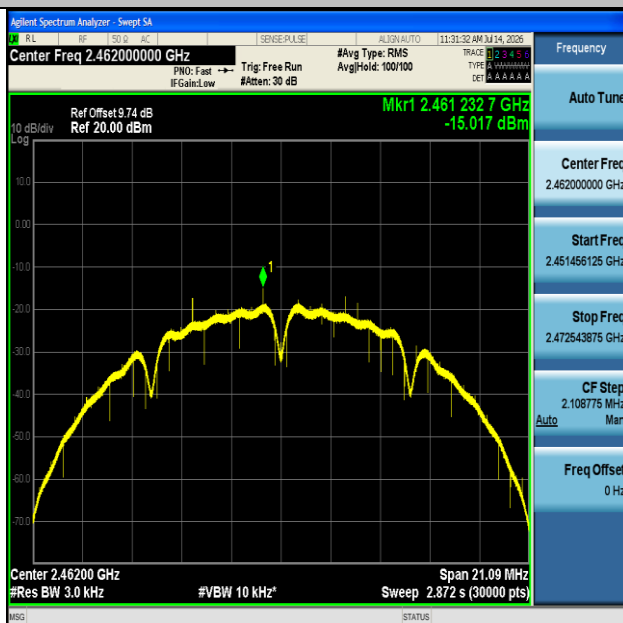


11B-Ant2-2437-PASS



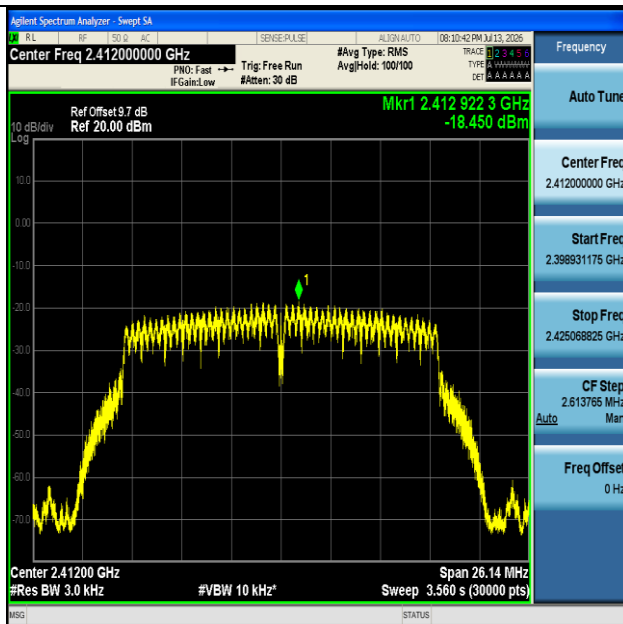


11B-Ant1-2462-PASS

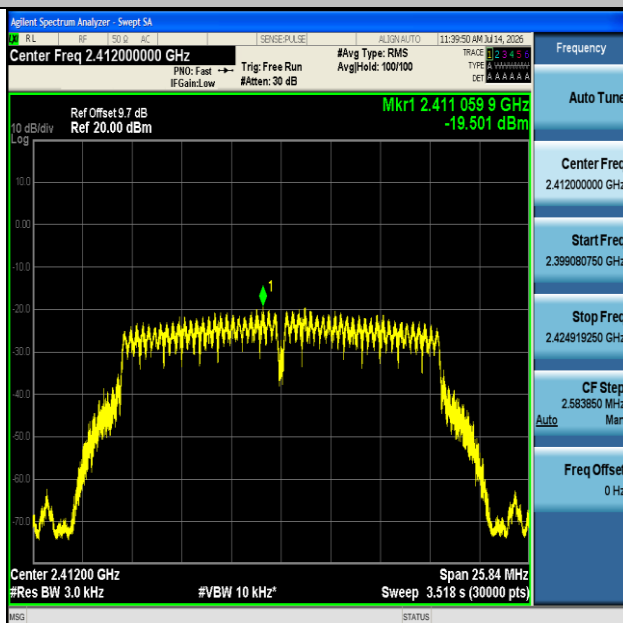


11B-Ant2-2462-PASS



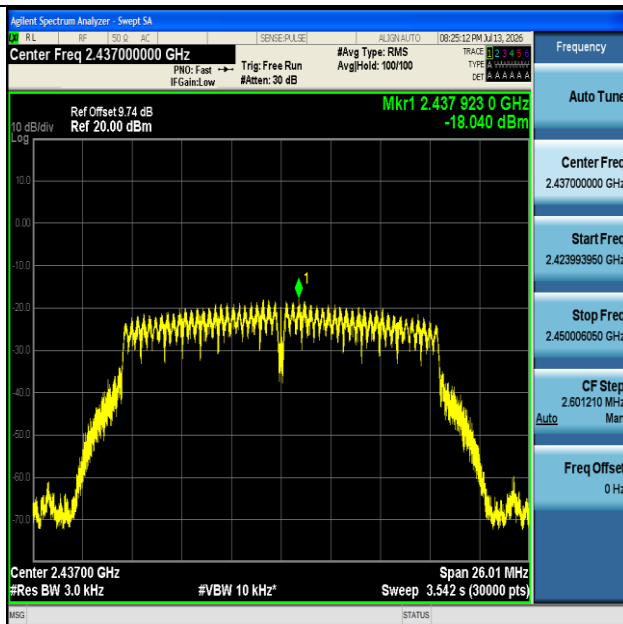


11G-Ant1-2412-PASS

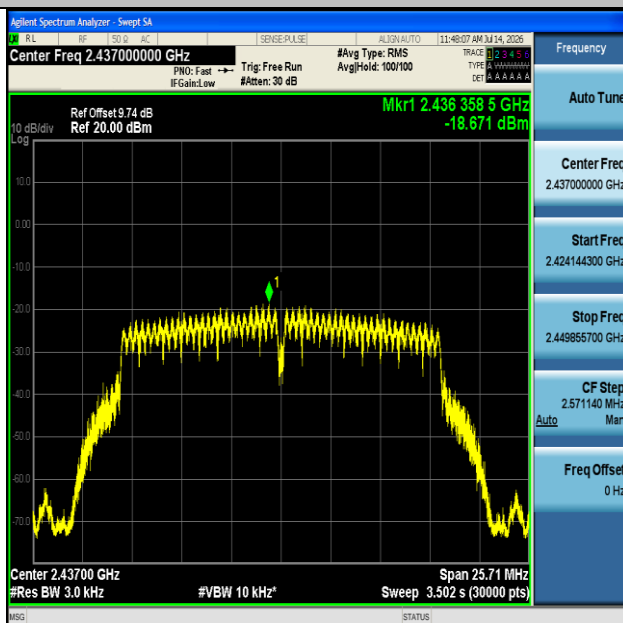


11G-Ant2-2412-PASS



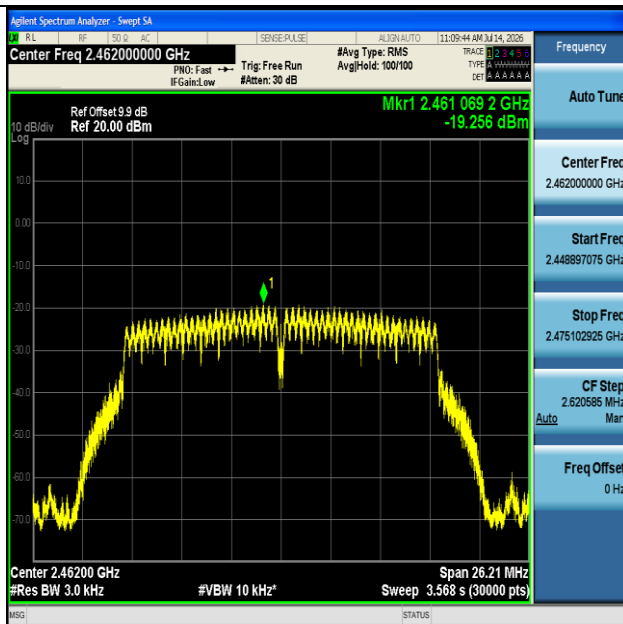


11G-Ant1-2437-PASS

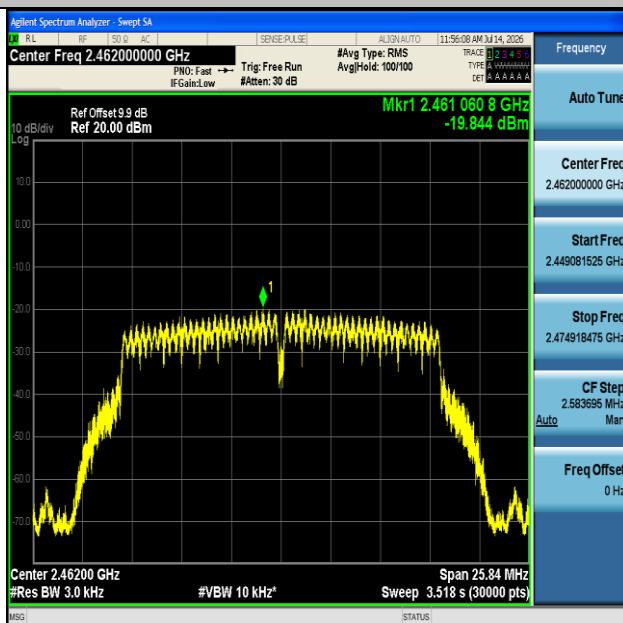


11G-Ant2-2437-PASS



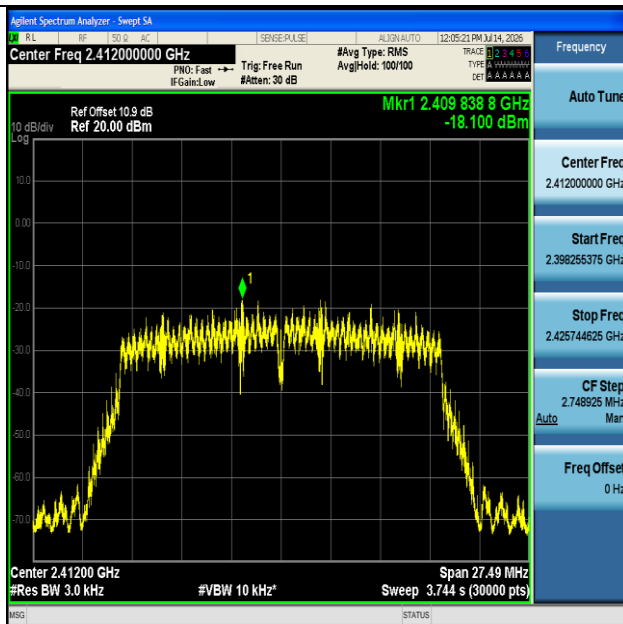


11G-Ant1-2462-PASS

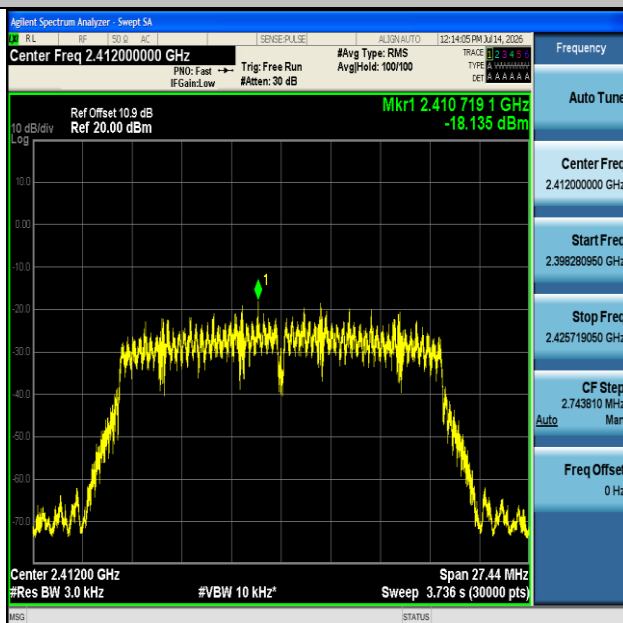


11G-Ant2-2462-PASS



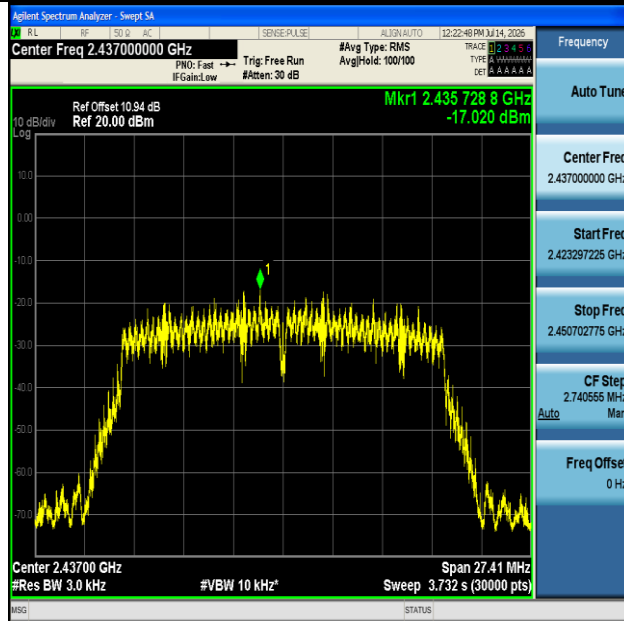


11N20MIMO-Ant1-2412-PASS

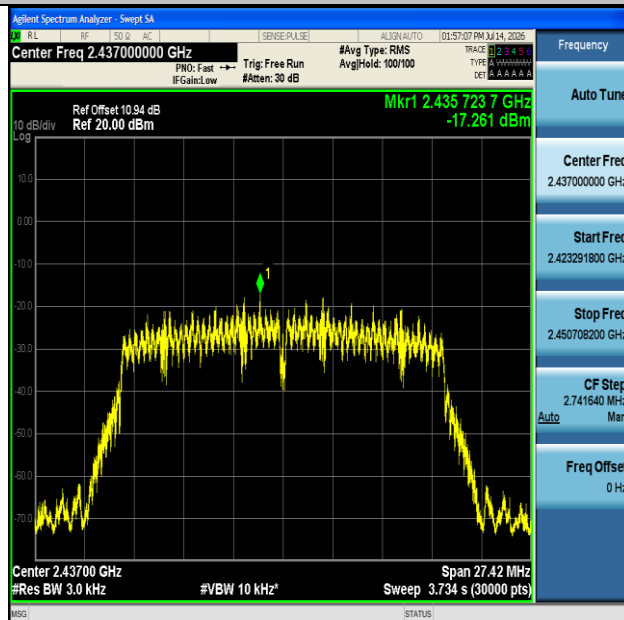


11N20MIMO-Ant2-2412-PASS



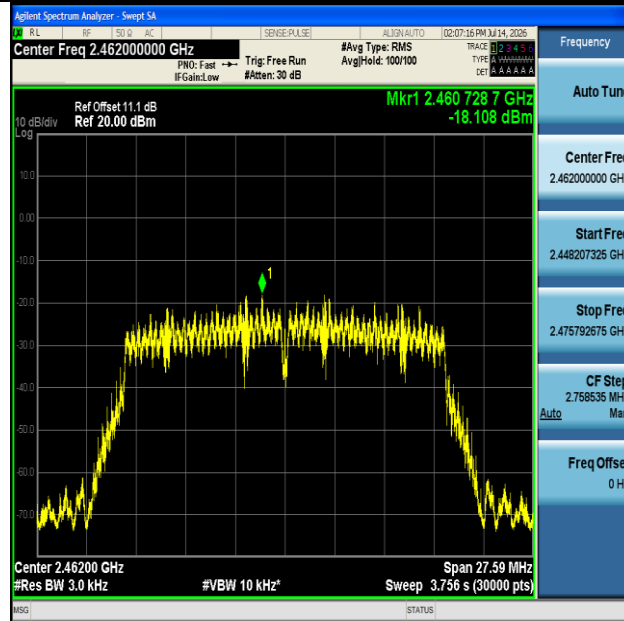


11N20MIMO-Ant1-2437-PASS

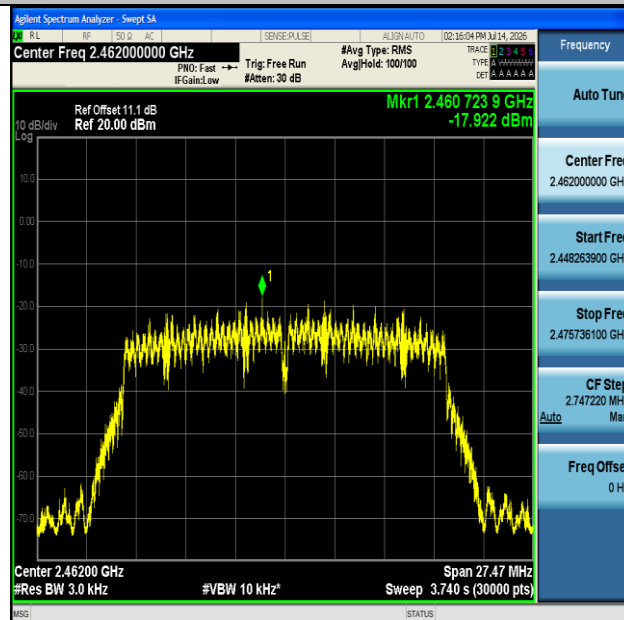


11N20MIMO-Ant2-2437-PASS



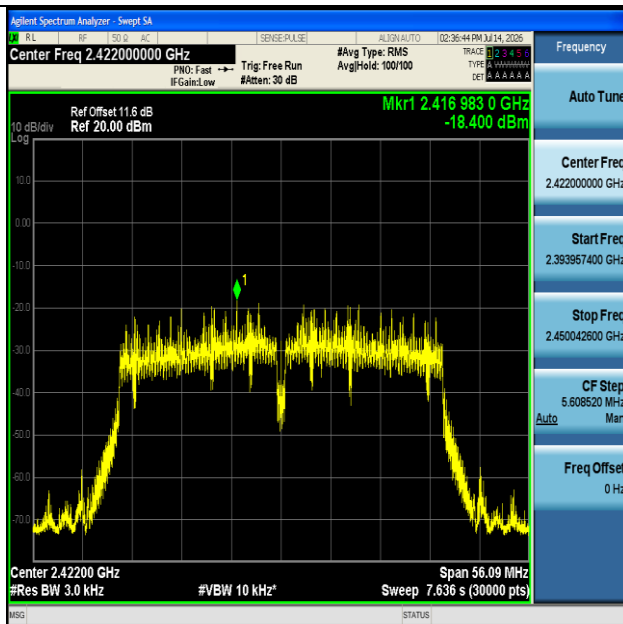


11N20MIMO-Ant1-2462-PASS

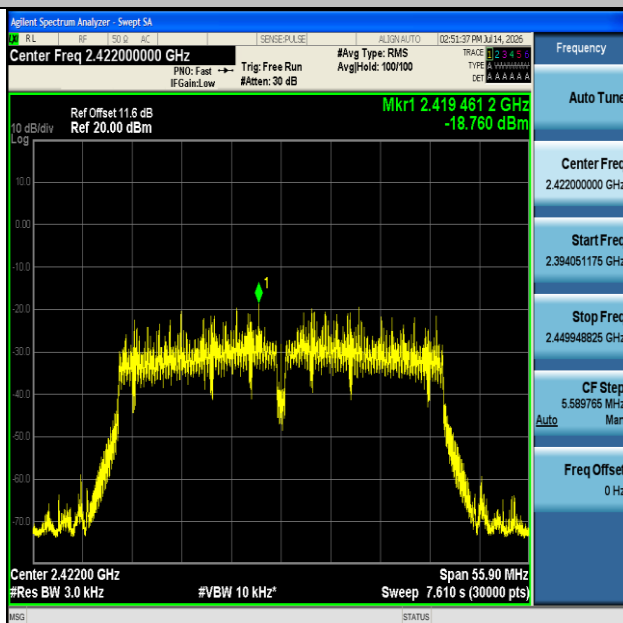


11N20MIMO-Ant2-2462-PASS



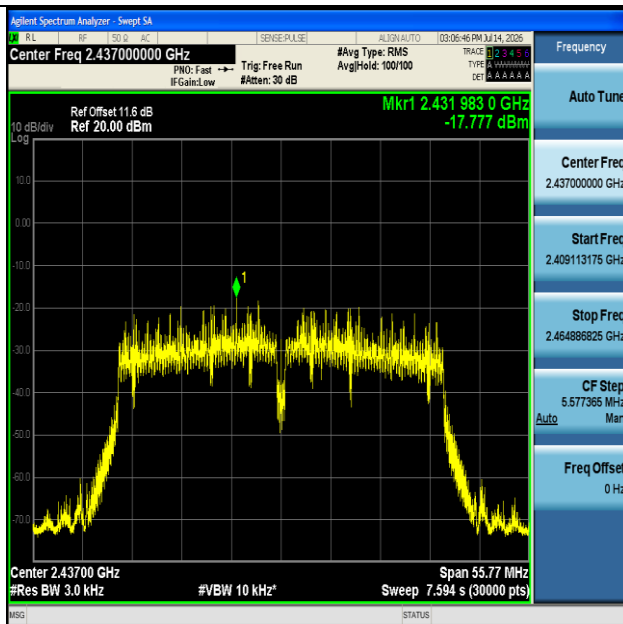


11N40MIMO-Ant1-2422-PASS

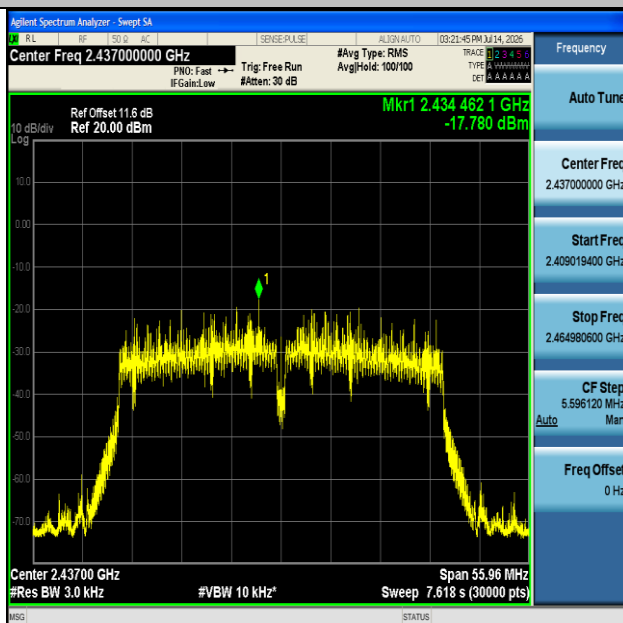


11N40MIMO-Ant2-2422-PASS



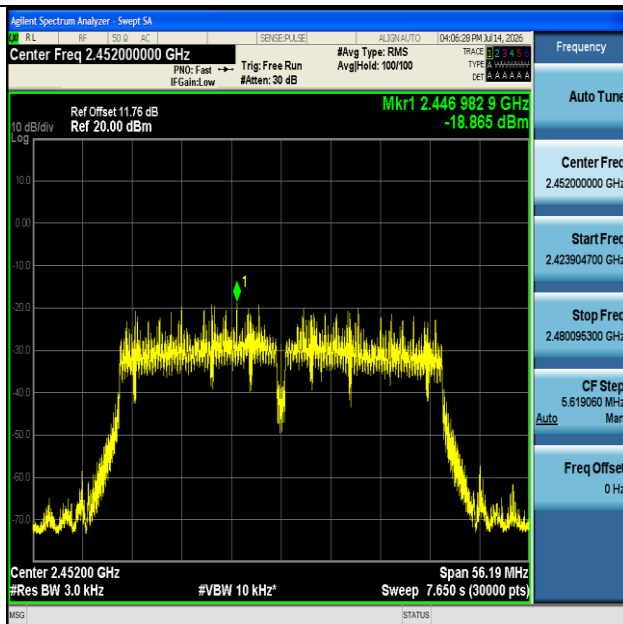


11N40MIMO-Ant1-2437-PASS

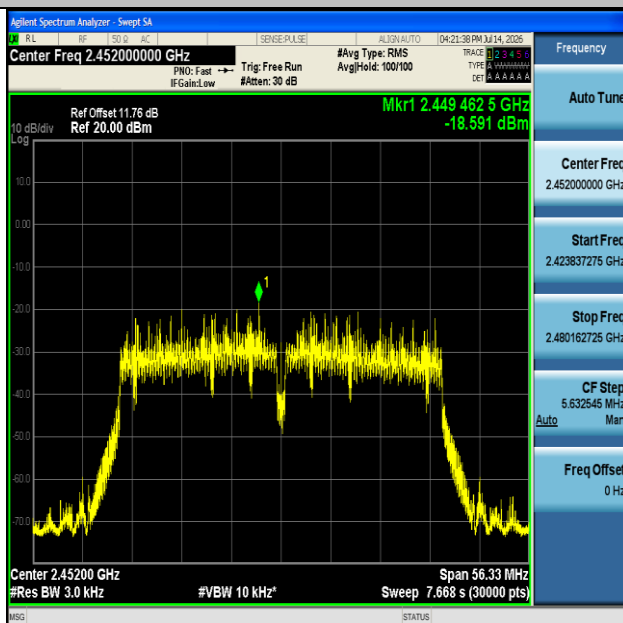


11N40MIMO-Ant2-2437-PASS





11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS





## Appendix E: Band edge measurements

### Test Result

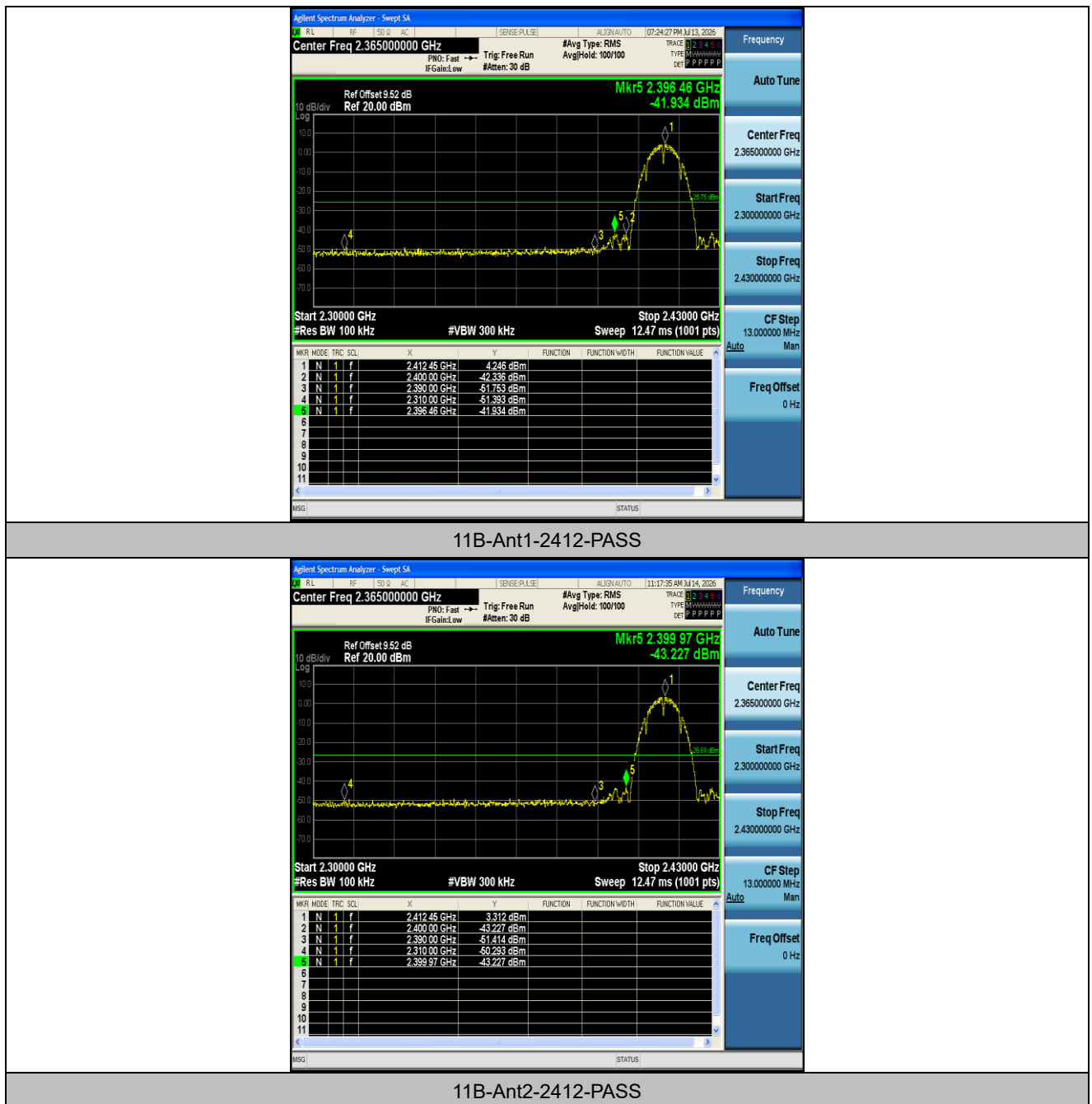
| Test Mode | Antenna | Ch. Name | Frequency.[MHz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------|-----------------|------------------|--------------|-------------|---------|
| 11B       | Ant1    | Low      | 2412            | 4.25             | -41.93       | ≤-25.75     | PASS    |
| 11B       | Ant2    | Low      | 2412            | 3.31             | -43.23       | ≤-26.69     | PASS    |
| 11B       | Ant1    | High     | 2462            | 4.32             | -45.41       | ≤-25.68     | PASS    |
| 11B       | Ant2    | High     | 2462            | 3.40             | -47.82       | ≤-26.6      | PASS    |
| 11G       | Ant1    | Low      | 2412            | 2.03             | -42.45       | ≤-27.97     | PASS    |
| 11G       | Ant2    | Low      | 2412            | 1.37             | -43.08       | ≤-28.63     | PASS    |
| 11G       | Ant1    | High     | 2462            | 1.44             | -47.09       | ≤-28.57     | PASS    |
| 11G       | Ant2    | High     | 2462            | 1.70             | -46.96       | ≤-28.3      | PASS    |
| 11N20MIMO | Ant1    | Low      | 2412            | 0.48             | -44.1        | ≤-29.52     | PASS    |
| 11N20MIMO | Ant2    | Low      | 2412            | -0.60            | -44.72       | ≤-30.6      | PASS    |
| 11N20MIMO | Ant1    | High     | 2462            | 0.42             | -47.2        | ≤-29.59     | PASS    |
| 11N20MIMO | Ant2    | High     | 2462            | -0.27            | -48.32       | ≤-30.27     | PASS    |
| 11N40MIMO | Ant1    | Low      | 2422            | -2.54            | -40.65       | ≤-32.54     | PASS    |
| 11N40MIMO | Ant2    | Low      | 2422            | -3.15            | -43.46       | ≤-33.15     | PASS    |
| 11N40MIMO | Ant1    | High     | 2452            | -2.81            | -47.76       | ≤-32.81     | PASS    |
| 11N40MIMO | Ant2    | High     | 2452            | -3.56            | -47.51       | ≤-33.56     | PASS    |

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



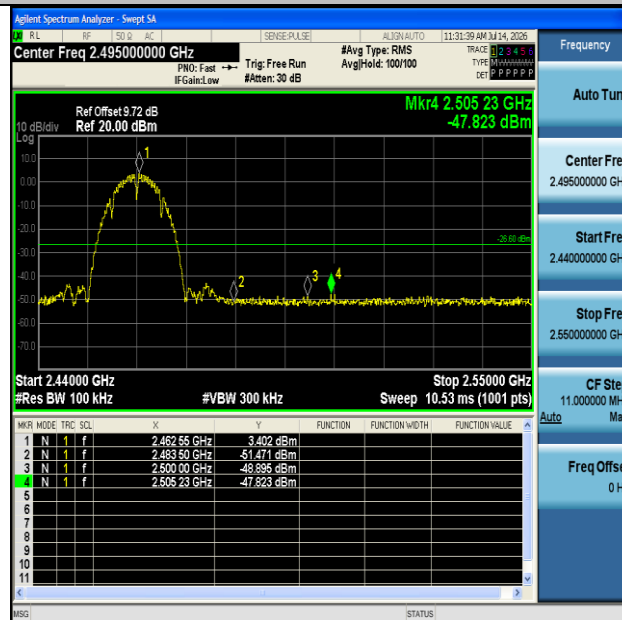


## Test Graphs



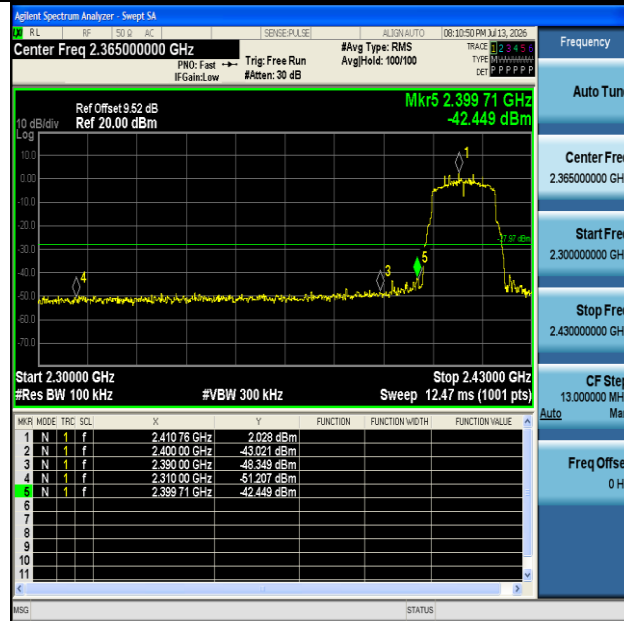


11B-Ant1-2462-PASS

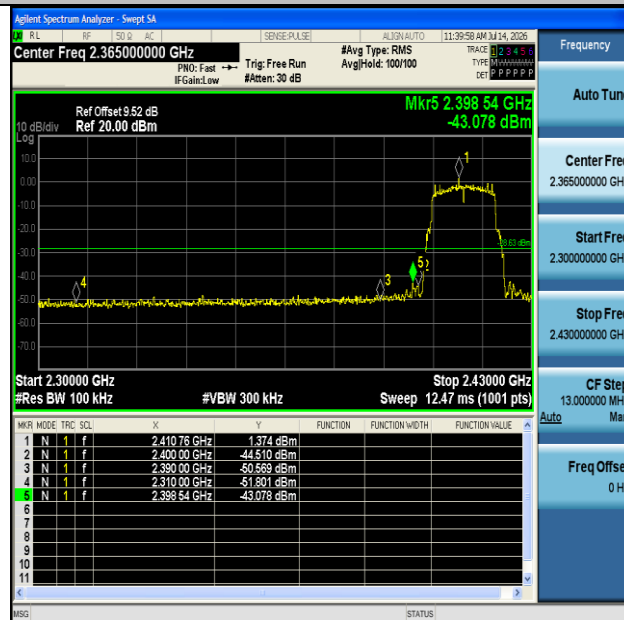


11B-Ant2-2462-PASS





11G-Ant1-2412-PASS

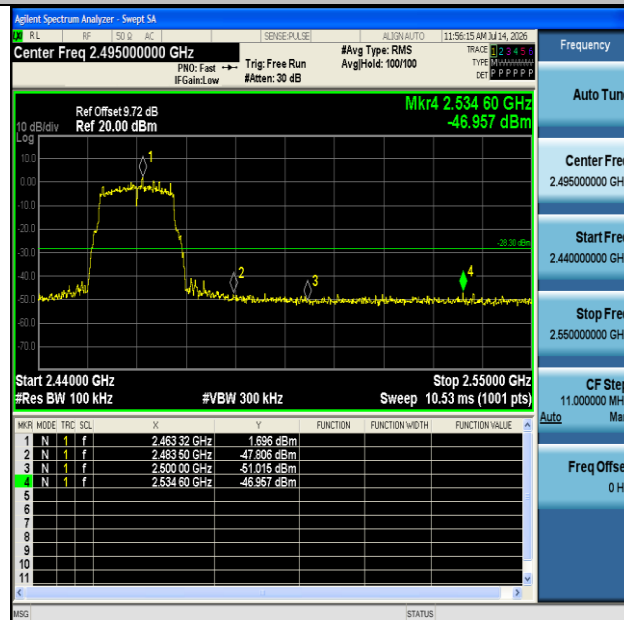


11G-Ant2-2412-PASS



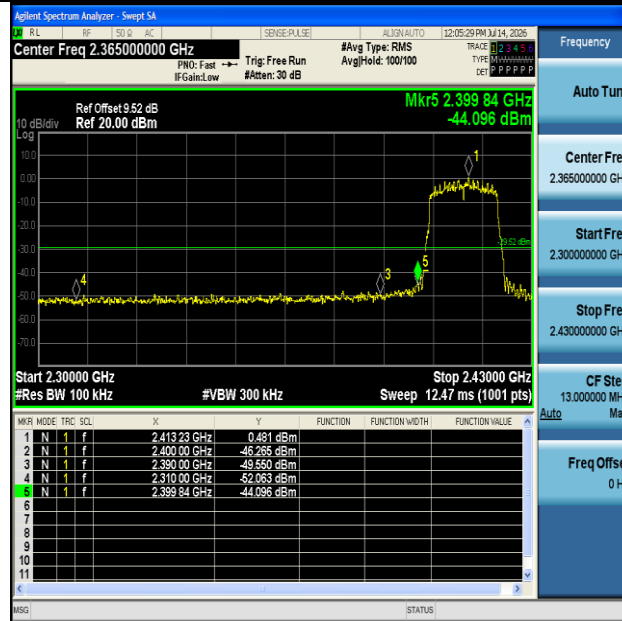


11G-Ant1-2462-PASS

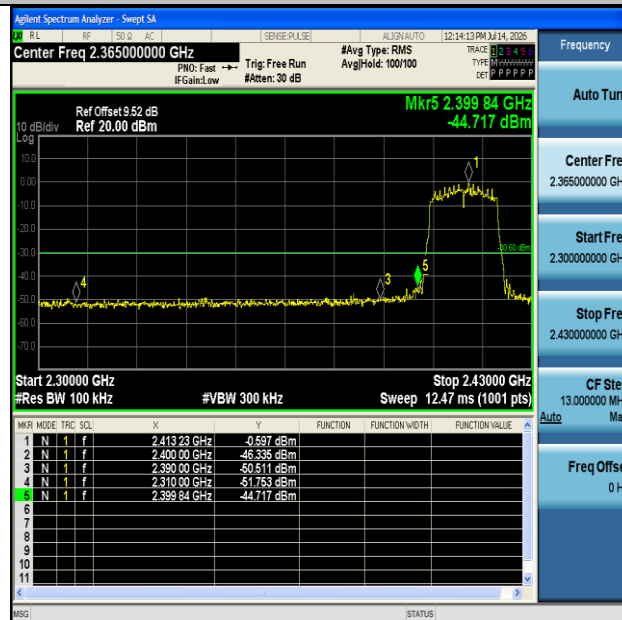


11G-Ant2-2462-PASS



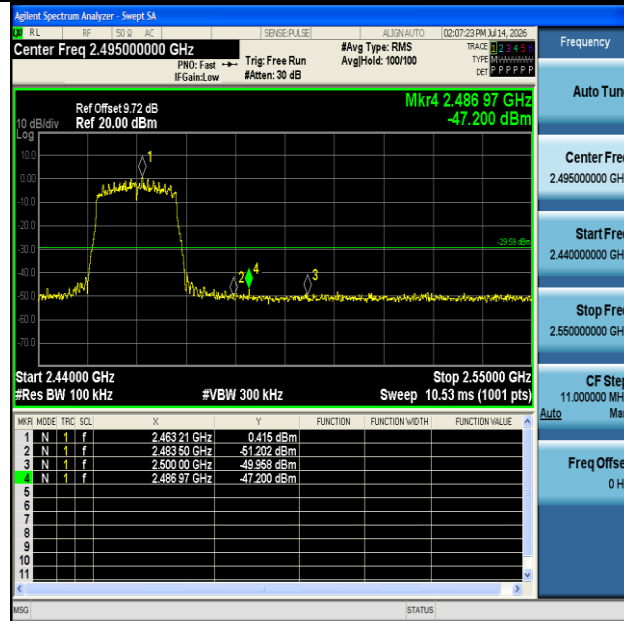


11N20MIMO-Ant1-2412-PASS

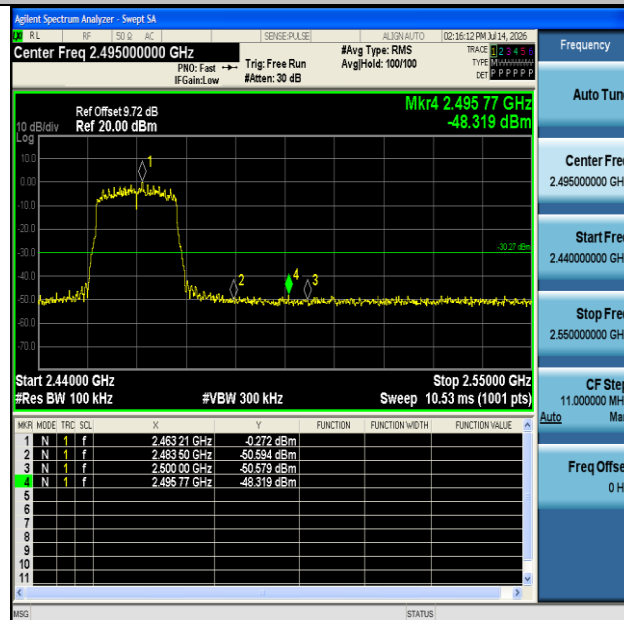


11N20MIMO-Ant2-2412-PASS





11N20MIMO-Ant1-2462-PASS

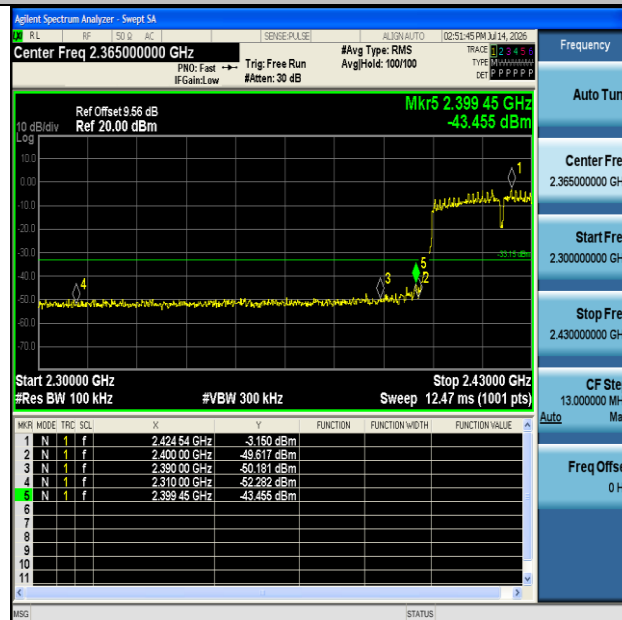


11N20MIMO-Ant2-2462-PASS



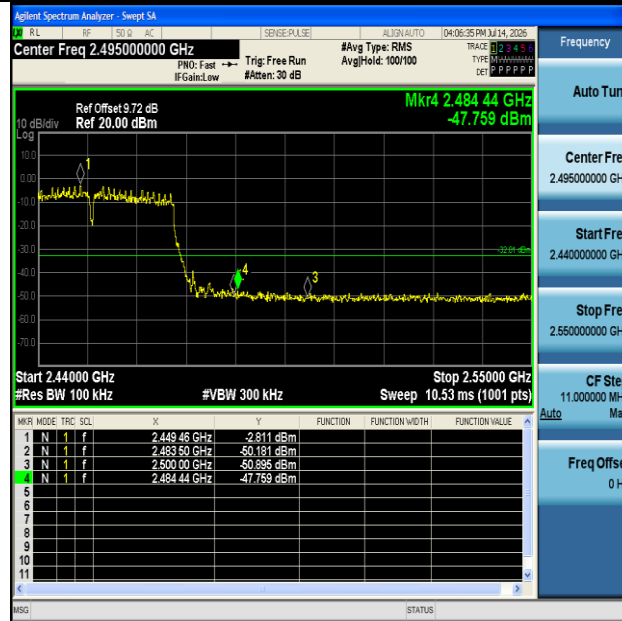


11N40MIMO-Ant1-2422-PASS

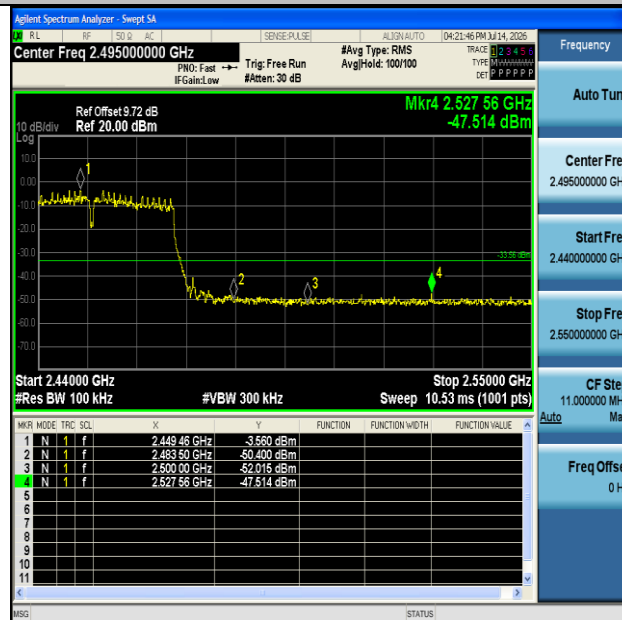


11N40MIMO-Ant2-2422-PASS





11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS





## Appendix F: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Frequency [MHz] | Freq. Range [Mhz] | Ref. Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------|-------------------|------------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412            | 0~Reference       | 4.03             | 4.03         | ---         | PASS    |
| 11B       | Ant2    | 2412            | 0~Reference       | 2.59             | 2.59         | ---         | PASS    |
| 11B       | Ant1    | 2412            | 30~1000           | 4.03             | -62.36       | ≤-25.97     | PASS    |
| 11B       | Ant2    | 2412            | 30~1000           | 2.59             | -61.84       | ≤-27.41     | PASS    |
| 11B       | Ant1    | 2412            | 1000~26500        | 4.03             | -36.73       | ≤-25.97     | PASS    |
| 11B       | Ant2    | 2412            | 1000~26500        | 2.59             | -36.37       | ≤-27.41     | PASS    |
| 11B       | Ant1    | 2437            | 0~Reference       | 5.23             | 5.23         | ---         | PASS    |
| 11B       | Ant2    | 2437            | 0~Reference       | 4.36             | 4.36         | ---         | PASS    |
| 11B       | Ant1    | 2437            | 30~1000           | 5.23             | -62.25       | ≤-24.77     | PASS    |
| 11B       | Ant2    | 2437            | 30~1000           | 4.36             | -61.94       | ≤-25.64     | PASS    |
| 11B       | Ant1    | 2437            | 1000~26500        | 5.23             | -36.18       | ≤-24.77     | PASS    |
| 11B       | Ant2    | 2437            | 1000~26500        | 4.36             | -37.01       | ≤-25.64     | PASS    |
| 11B       | Ant1    | 2462            | 0~Reference       | 3.25             | 3.25         | ---         | PASS    |
| 11B       | Ant2    | 2462            | 0~Reference       | 3.40             | 3.40         | ---         | PASS    |
| 11B       | Ant1    | 2462            | 30~1000           | 3.25             | -62.35       | ≤-26.75     | PASS    |
| 11B       | Ant2    | 2462            | 30~1000           | 3.40             | -61.77       | ≤-26.6      | PASS    |
| 11B       | Ant1    | 2462            | 1000~26500        | 3.25             | -36.98       | ≤-26.75     | PASS    |
| 11B       | Ant2    | 2462            | 1000~26500        | 3.40             | -36.97       | ≤-26.6      | PASS    |
| 11G       | Ant1    | 2412            | 0~Reference       | 0.31             | 0.31         | ---         | PASS    |
| 11G       | Ant2    | 2412            | 0~Reference       | -0.40            | -0.40        | ---         | PASS    |
| 11G       | Ant1    | 2412            | 30~1000           | 0.31             | -61.8        | ≤-29.69     | PASS    |
| 11G       | Ant2    | 2412            | 30~1000           | -0.40            | -61.86       | ≤-30.4      | PASS    |
| 11G       | Ant1    | 2412            | 1000~26500        | 0.31             | -36.7        | ≤-29.69     | PASS    |
| 11G       | Ant2    | 2412            | 1000~26500        | -0.40            | -36.96       | ≤-30.4      | PASS    |
| 11G       | Ant1    | 2437            | 0~Reference       | 3.70             | 3.70         | ---         | PASS    |
| 11G       | Ant2    | 2437            | 0~Reference       | 2.08             | 2.08         | ---         | PASS    |
| 11G       | Ant1    | 2437            | 30~1000           | 3.70             | -62.65       | ≤-26.3      | PASS    |
| 11G       | Ant2    | 2437            | 30~1000           | 2.08             | -62.1        | ≤-27.92     | PASS    |
| 11G       | Ant1    | 2437            | 1000~26500        | 3.70             | -37.15       | ≤-26.3      | PASS    |
| 11G       | Ant2    | 2437            | 1000~26500        | 2.08             | -33          | ≤-27.92     | PASS    |
| 11G       | Ant1    | 2462            | 0~Reference       | -0.25            | -0.25        | ---         | PASS    |
| 11G       | Ant2    | 2462            | 0~Reference       | -1.91            | -1.91        | ---         | PASS    |
| 11G       | Ant1    | 2462            | 30~1000           | -0.25            | -61.95       | ≤-30.25     | PASS    |
| 11G       | Ant2    | 2462            | 30~1000           | -1.91            | -62.69       | ≤-31.91     | PASS    |
| 11G       | Ant1    | 2462            | 1000~26500        | -0.25            | -37.08       | ≤-30.25     | PASS    |
| 11G       | Ant2    | 2462            | 1000~26500        | -1.91            | -36.62       | ≤-31.91     | PASS    |
| 11N20MIMO | Ant1    | 2412            | 0~Reference       | -0.71            | -0.71        | ---         | PASS    |

