

## Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: T2 Max

FCC ID: 2A7PIT2MAX

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 25.5°C    |
| Relative Humidity: | 55%       |
| ATM Pressure:      | 100.0 kPa |
| Test #JobTitle:    | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

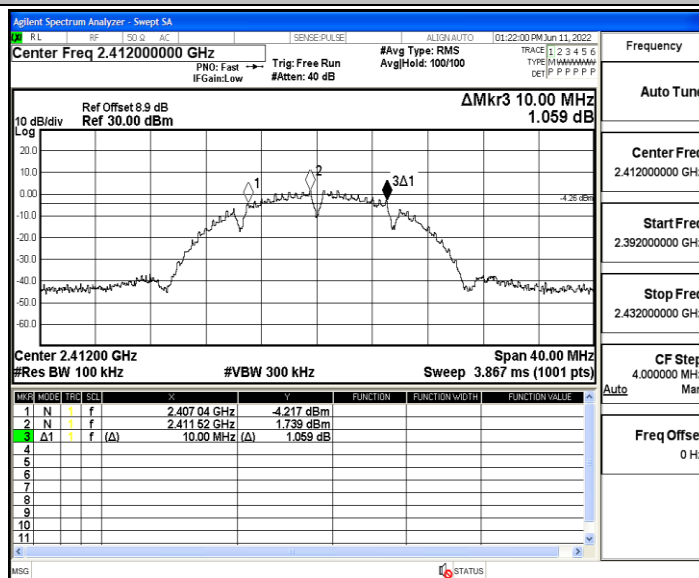
## Appendix A: DTS Bandwidth

### Test Result

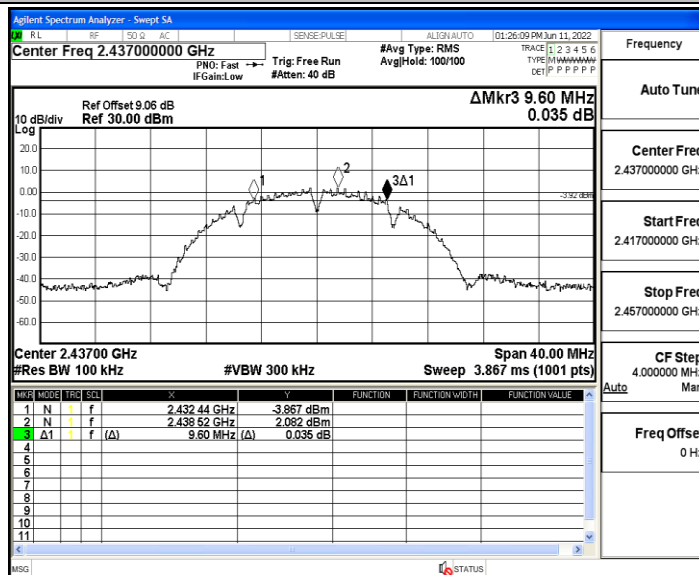
| TestMode  | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 10.000          | 2407.040 | 2417.040 | 0.5        | PASS    |
|           |         | 2437    | 9.600           | 2432.440 | 2442.040 | 0.5        | PASS    |
|           |         | 2462    | 9.000           | 2457.480 | 2466.480 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 16.280          | 2403.880 | 2420.160 | 0.5        | PASS    |
|           |         | 2437    | 16.320          | 2428.840 | 2445.160 | 0.5        | PASS    |
|           |         | 2462    | 16.320          | 2453.840 | 2470.160 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412    | 17.280          | 2403.520 | 2420.800 | 0.5        | PASS    |
|           |         | 2437    | 16.640          | 2428.520 | 2445.160 | 0.5        | PASS    |
|           |         | 2462    | 17.040          | 2453.480 | 2470.520 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422    | 35.040          | 2404.480 | 2439.520 | 0.5        | PASS    |
|           |         | 2437    | 35.040          | 2419.480 | 2454.520 | 0.5        | PASS    |
|           |         | 2452    | 35.280          | 2434.480 | 2469.760 | 0.5        | PASS    |

## Test Graphs

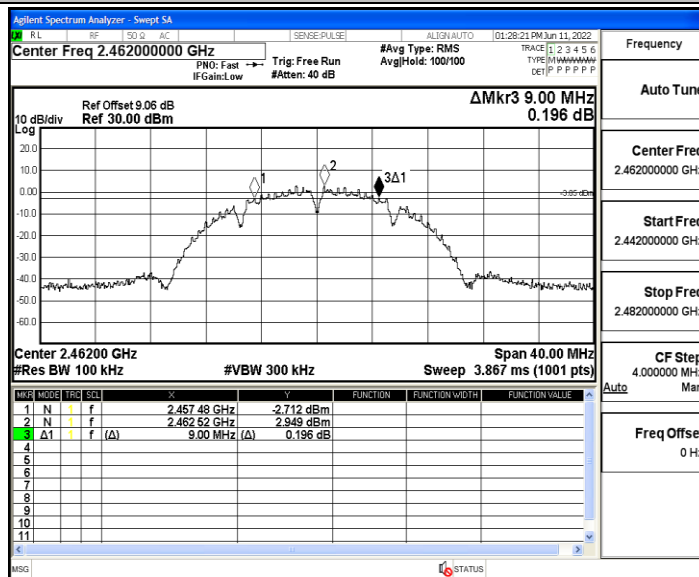
11B\_Ant1\_2412



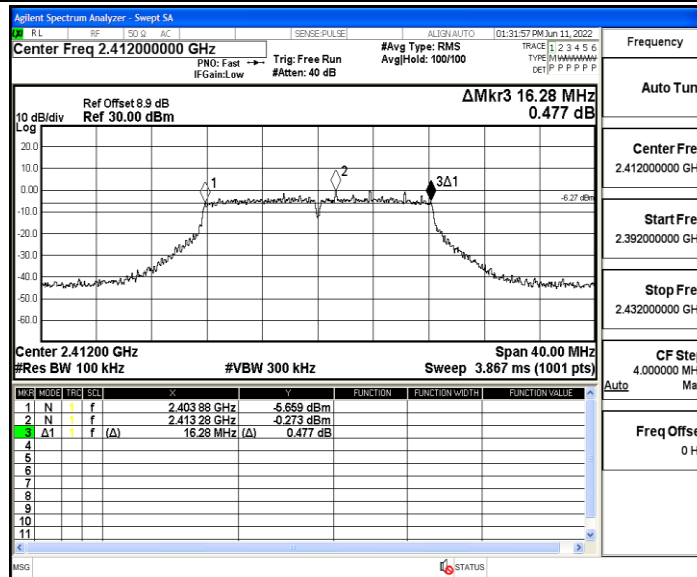
11B\_Ant1\_2437



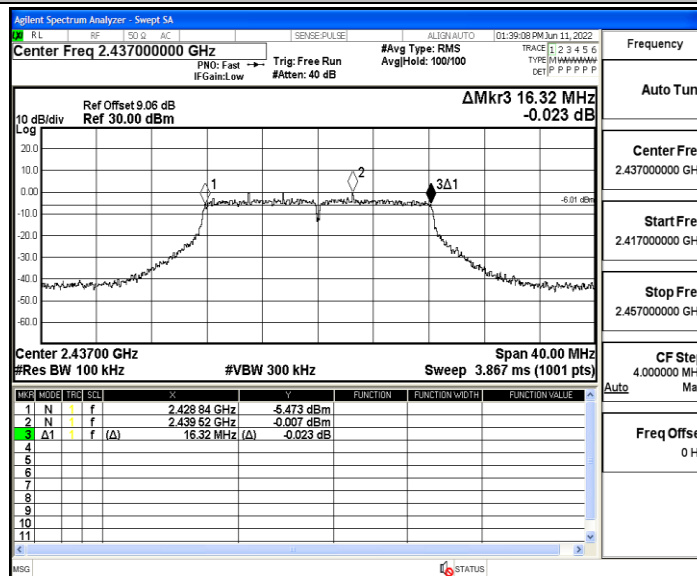
11B\_Ant1\_2462



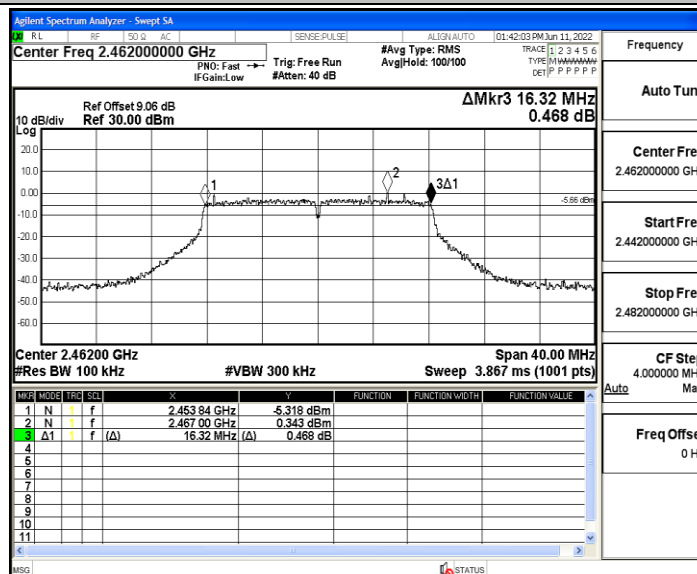
## 11G\_Ant1\_2412



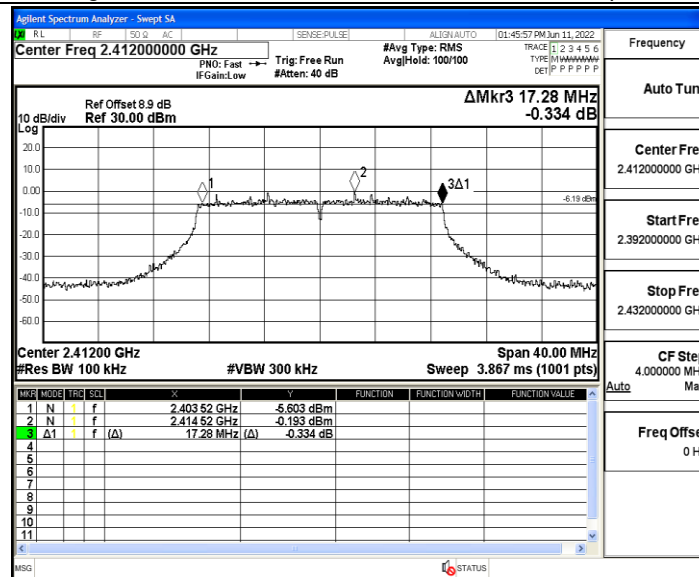
## 11G\_Ant1\_2437



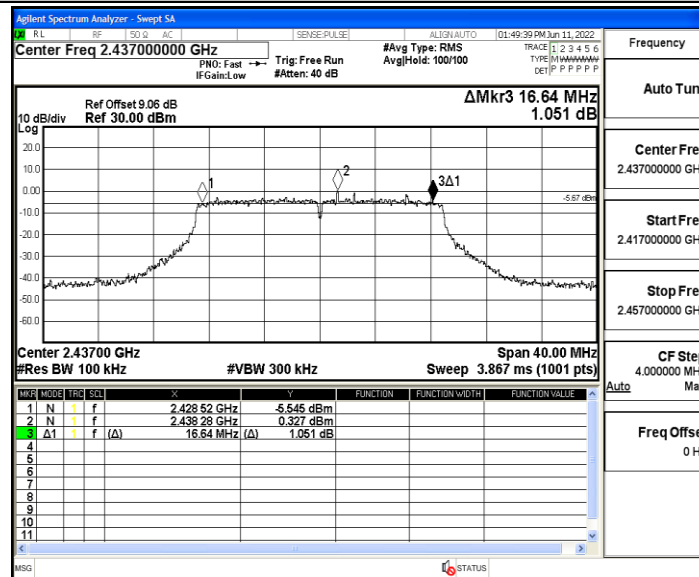
## 11G\_Ant1\_2462



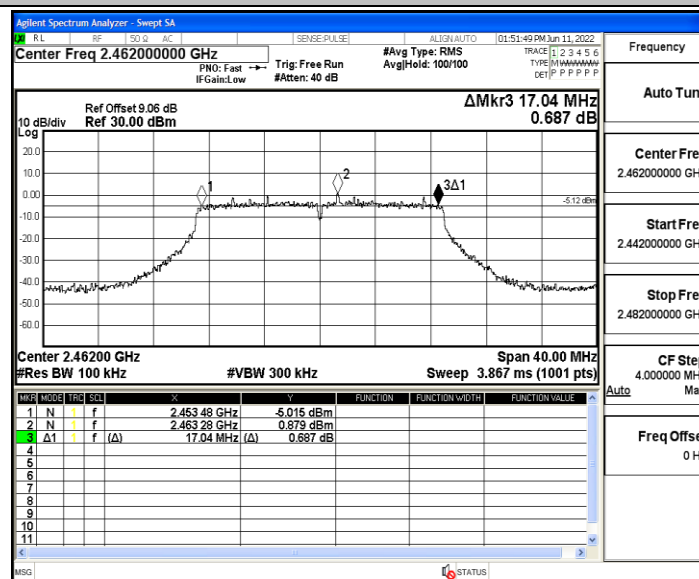
## 11N20SISO\_Ant1\_2412



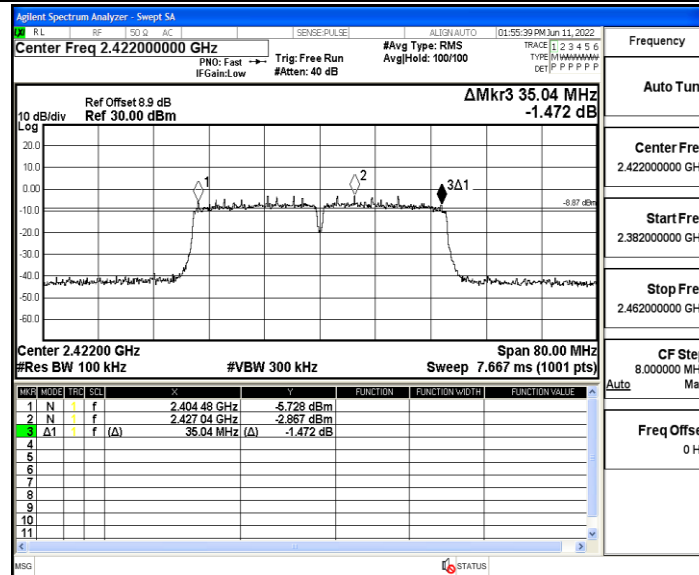
11N20SISO\_Ant1\_2437



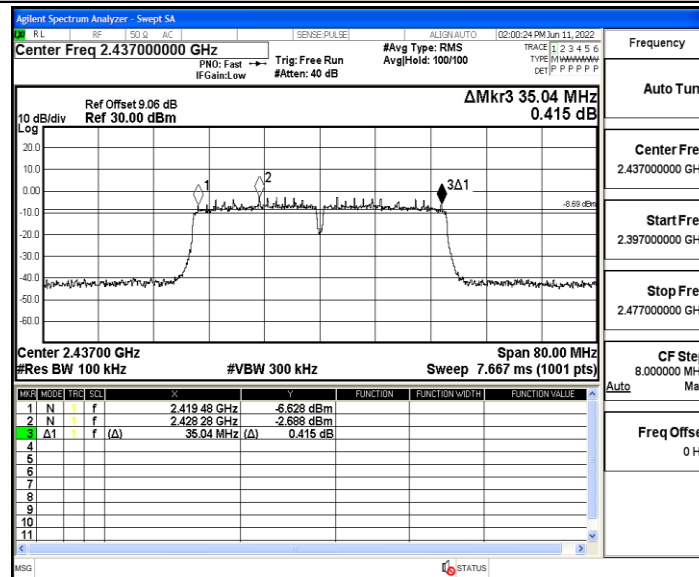
11N20SISO\_Ant1\_2462



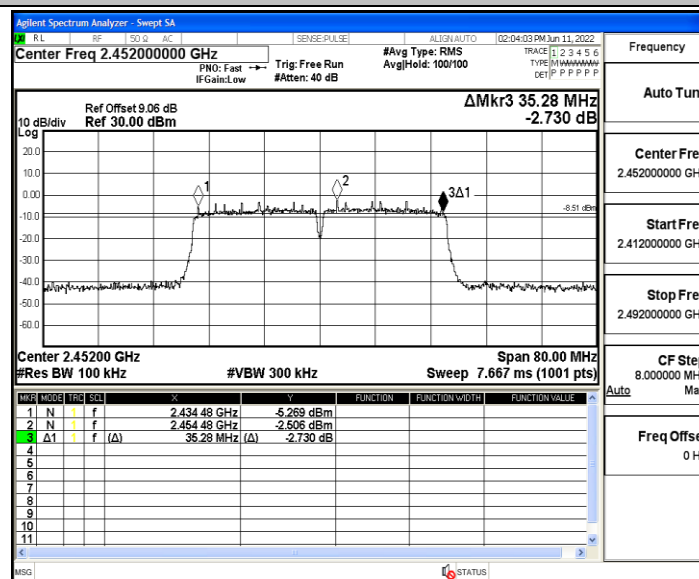
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

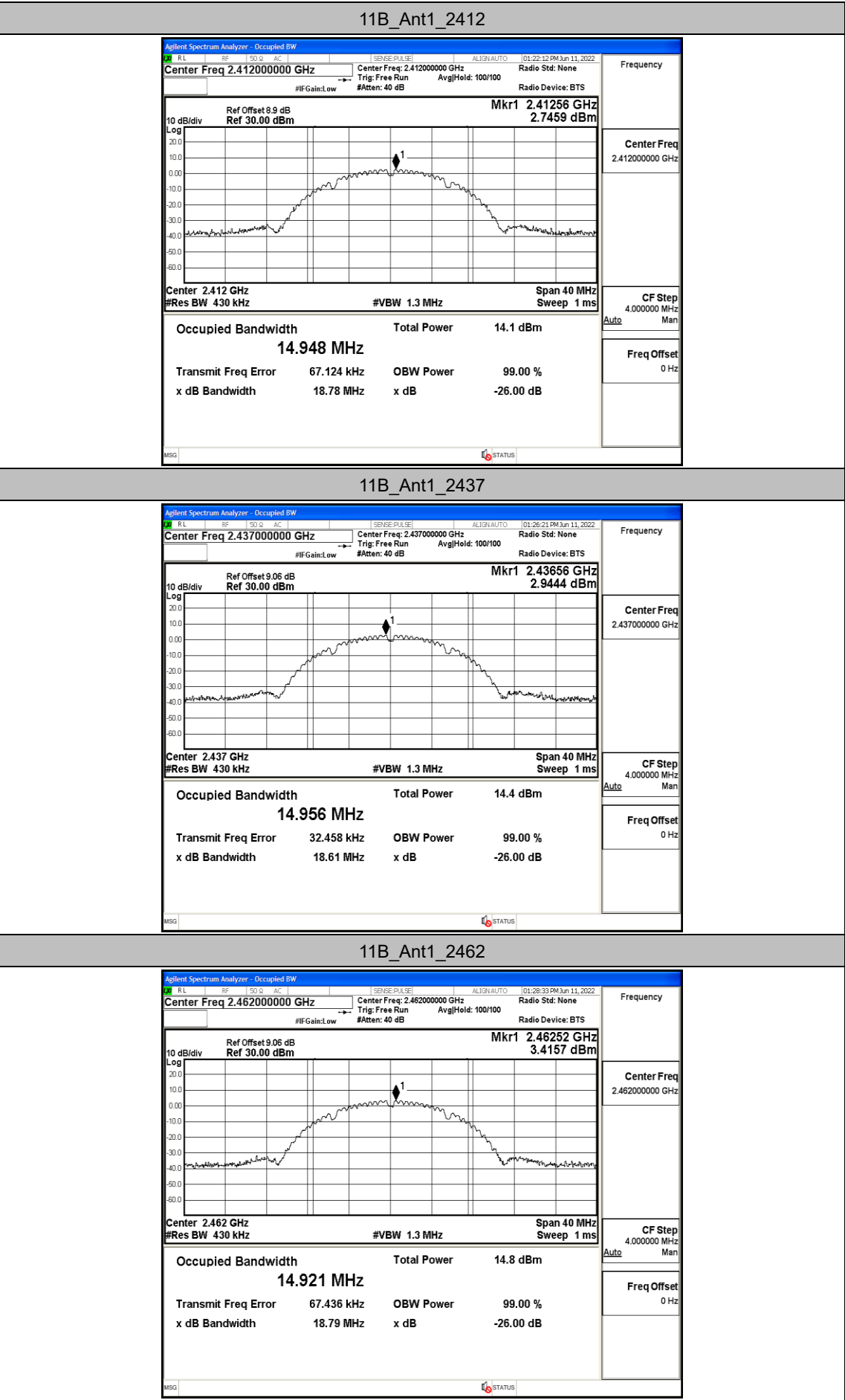


## Appendix B: Occupied Channel Bandwidth

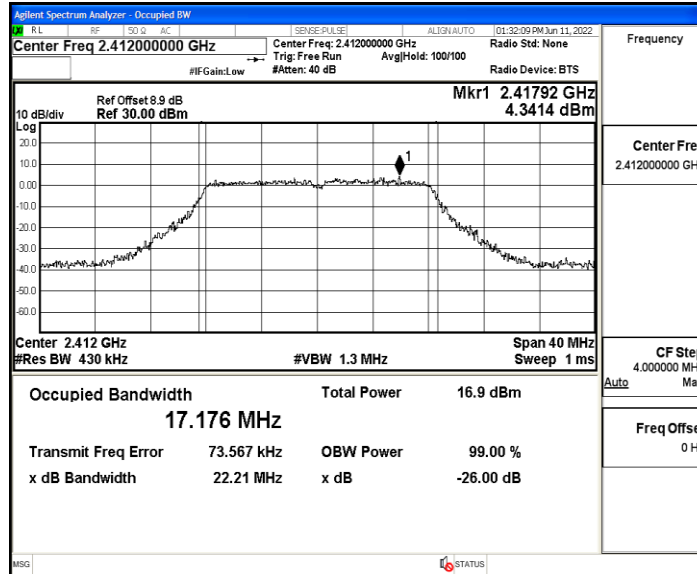
### Test Result

| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 14.948    | 2404.593 | 2419.541 | ---        | ---     |
|           |         | 2437    | 14.956    | 2429.554 | 2444.510 | ---        | ---     |
|           |         | 2462    | 14.921    | 2454.607 | 2469.528 | ---        | ---     |
| 11G       | Ant1    | 2412    | 17.176    | 2403.486 | 2420.662 | ---        | ---     |
|           |         | 2437    | 17.089    | 2428.448 | 2445.537 | ---        | ---     |
|           |         | 2462    | 17.045    | 2453.546 | 2470.591 | ---        | ---     |
| 11N20SISO | Ant1    | 2412    | 18.137    | 2402.987 | 2421.124 | ---        | ---     |
|           |         | 2437    | 18.260    | 2427.912 | 2446.172 | ---        | ---     |
|           |         | 2462    | 18.295    | 2452.929 | 2471.224 | ---        | ---     |
| 11N40SISO | Ant1    | 2422    | 35.961    | 2404.096 | 2440.057 | ---        | ---     |
|           |         | 2437    | 35.946    | 2419.141 | 2455.087 | ---        | ---     |
|           |         | 2452    | 35.950    | 2434.147 | 2470.097 | ---        | ---     |

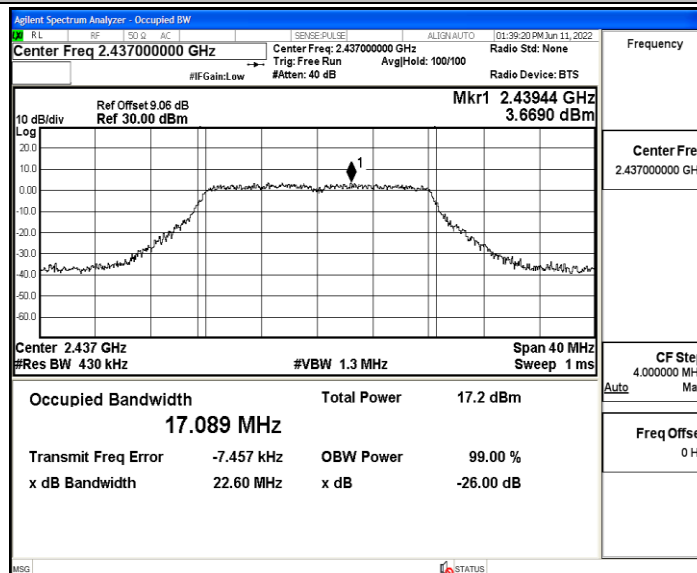
Test Graphs



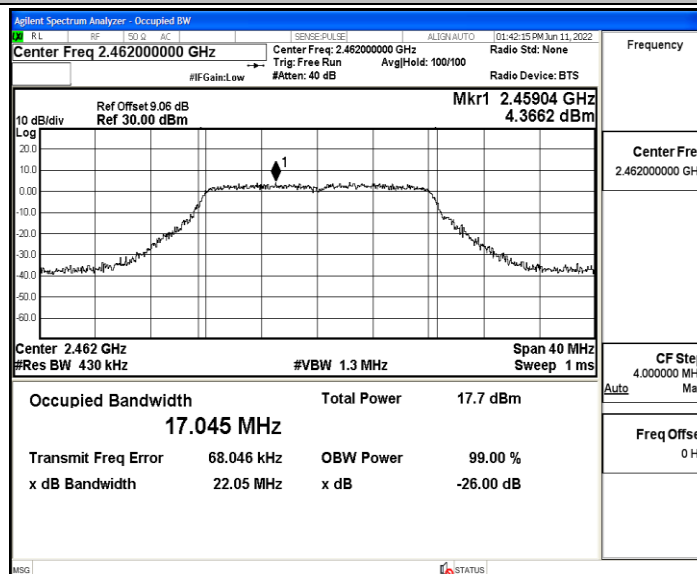
## 11G\_Ant1\_2412



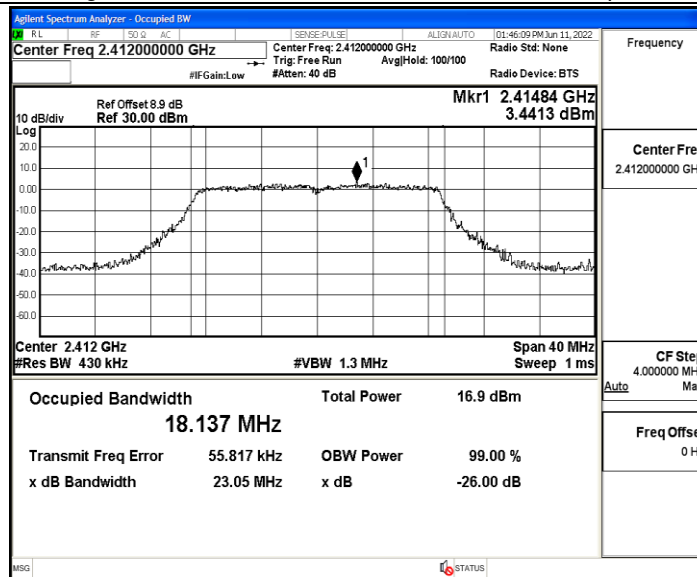
## 11G\_Ant1\_2437



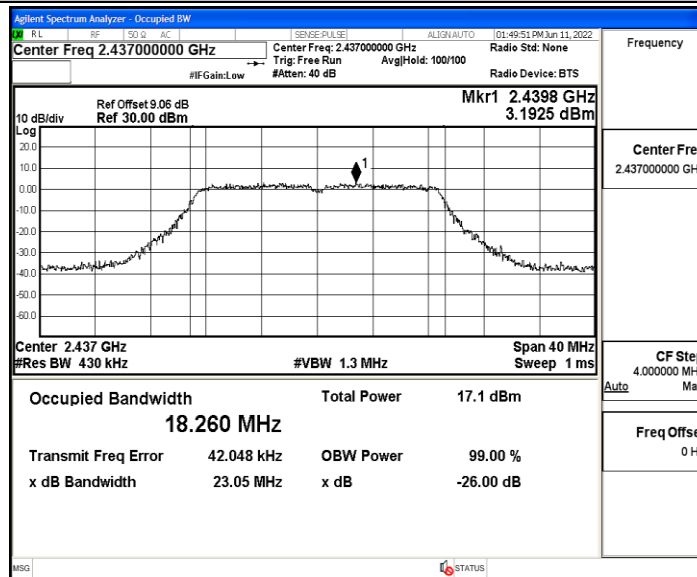
## 11G\_Ant1\_2462



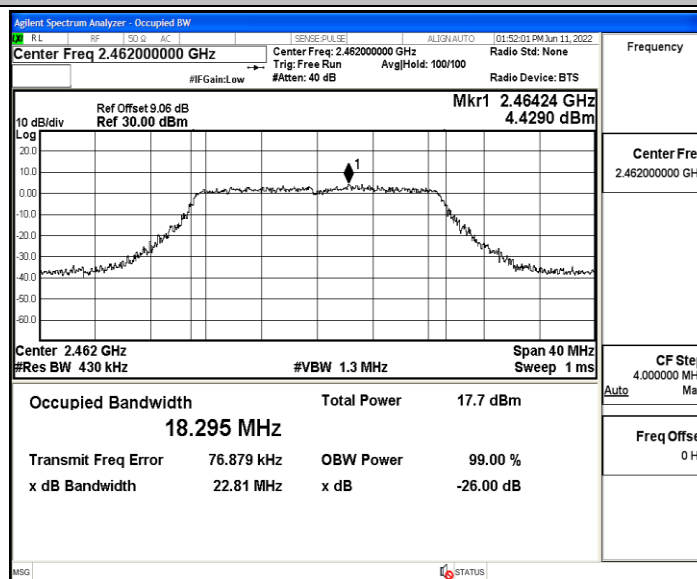
## 11N20SISO\_Ant1\_2412



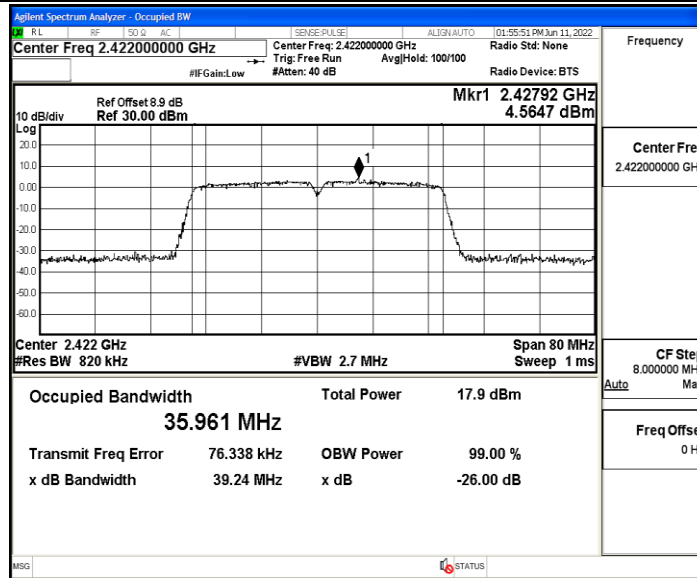
11N20SISO\_Ant1\_2437



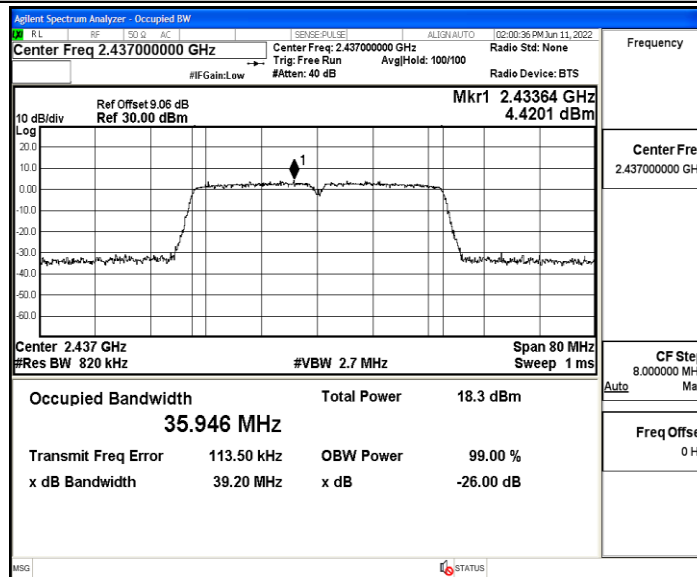
11N20SISO\_Ant1\_2462



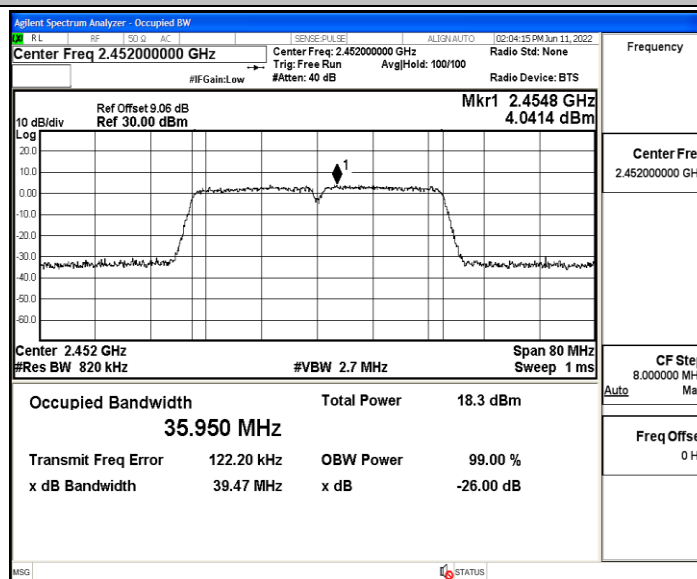
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



## Appendix C: Maximum conducted output power

### Test Result

| TestMode  | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 11.14       | ≤30.00     | PASS    |
|           |         | 2437    | 11.44       | ≤30.00     | PASS    |
|           |         | 2462    | 11.70       | ≤30.00     | PASS    |
| 11G       | Ant1    | 2412    | 10.96       | ≤30.00     | PASS    |
|           |         | 2437    | 11.28       | ≤30.00     | PASS    |
|           |         | 2462    | 11.82       | ≤30.00     | PASS    |
| 11N20SISO | Ant1    | 2412    | 10.94       | ≤30.00     | PASS    |
|           |         | 2437    | 11.33       | ≤30.00     | PASS    |
|           |         | 2462    | 11.86       | ≤30.00     | PASS    |
| 11N40SISO | Ant1    | 2422    | 11.23       | ≤30.00     | PASS    |
|           |         | 2437    | 11.36       | ≤30.00     | PASS    |
|           |         | 2452    | 11.77       | ≤30.00     | PASS    |

Note: The Duty Cycle Factor is compensated in the test result.

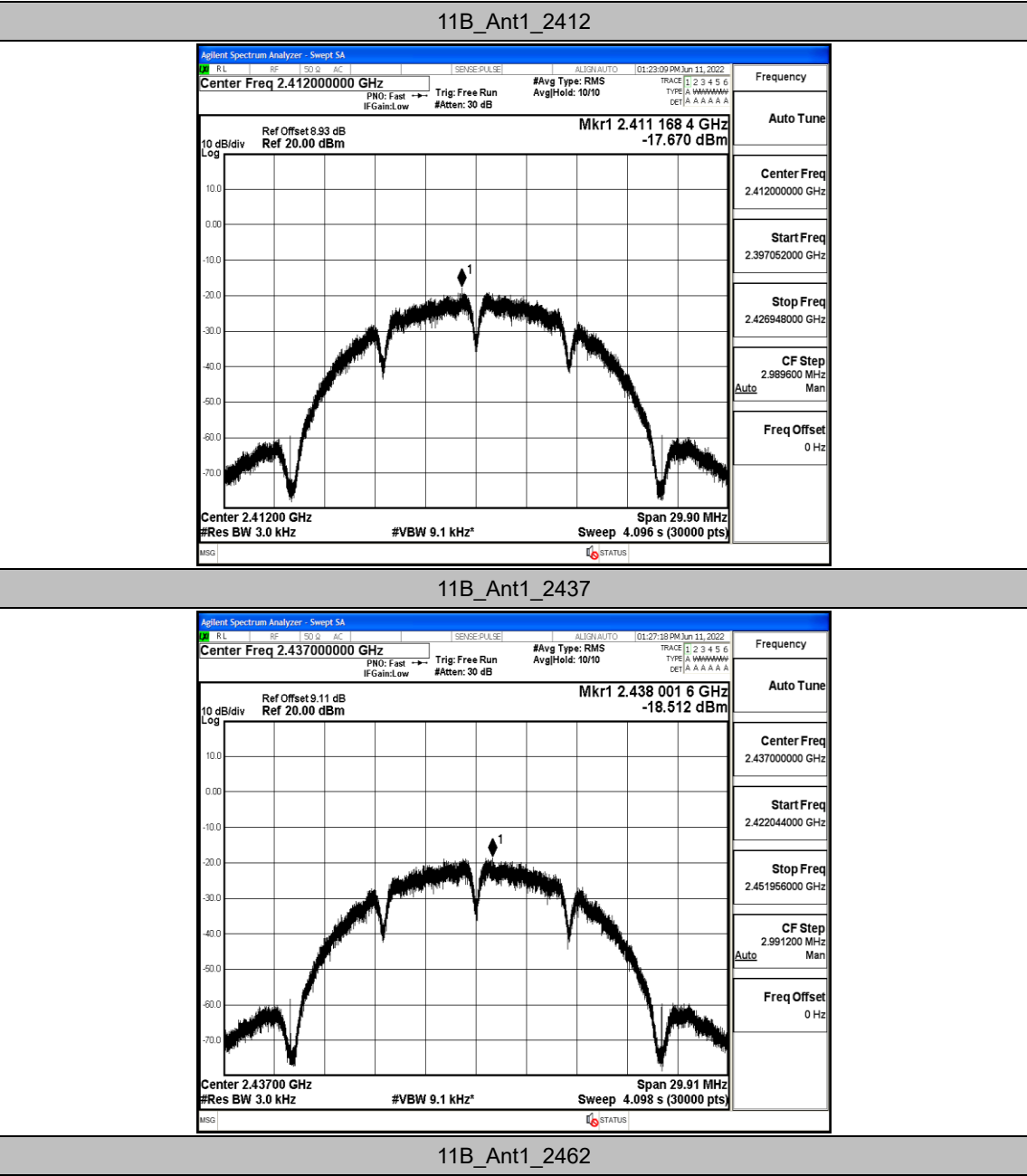
## Appendix D: Maximum power spectral density

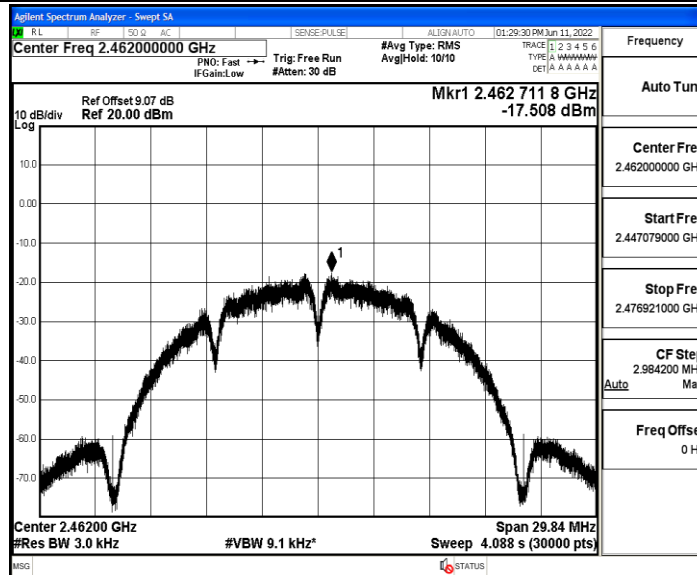
### Test Result

| TestMode  | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -17.67               | ≤8.00           | PASS    |
|           |         | 2437    | -18.51               | ≤8.00           | PASS    |
|           |         | 2462    | -17.51               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412    | -19.47               | ≤8.00           | PASS    |
|           |         | 2437    | -18.01               | ≤8.00           | PASS    |
|           |         | 2462    | -18.03               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412    | -19.29               | ≤8.00           | PASS    |
|           |         | 2437    | -18.36               | ≤8.00           | PASS    |
|           |         | 2462    | -19.22               | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422    | -19.91               | ≤8.00           | PASS    |
|           |         | 2437    | -20.93               | ≤8.00           | PASS    |
|           |         | 2452    | -21.24               | ≤8.00           | PASS    |

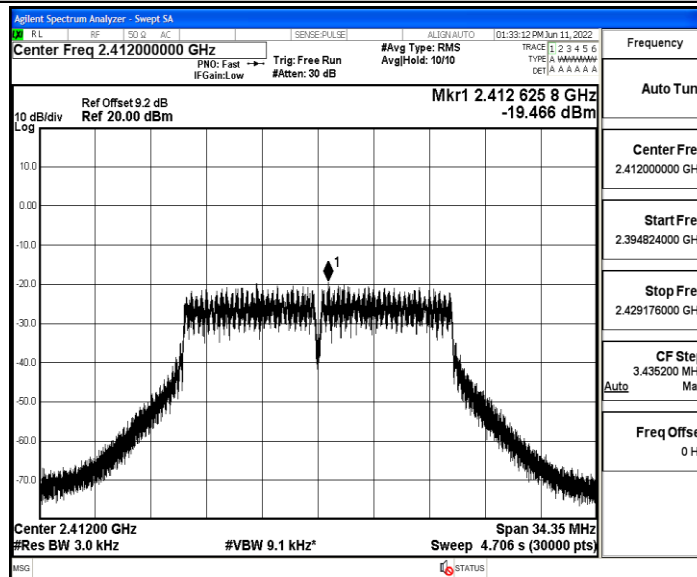
Note: The Duty Cycle Factor is compensated in the test result.

Test Graphs

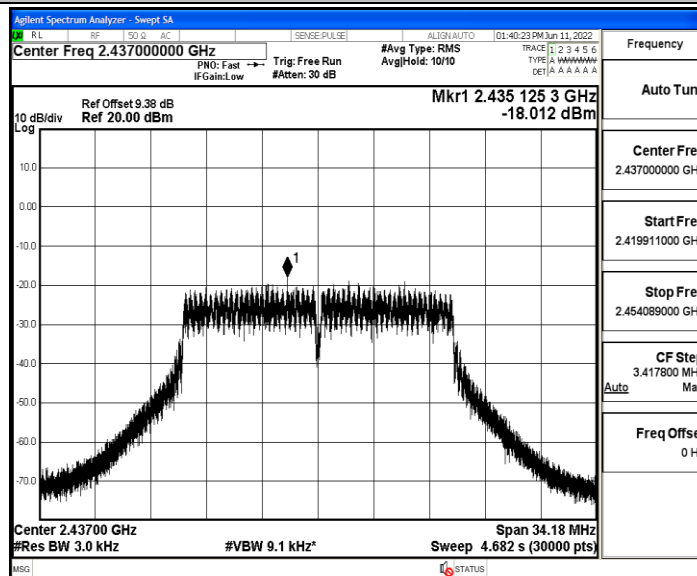




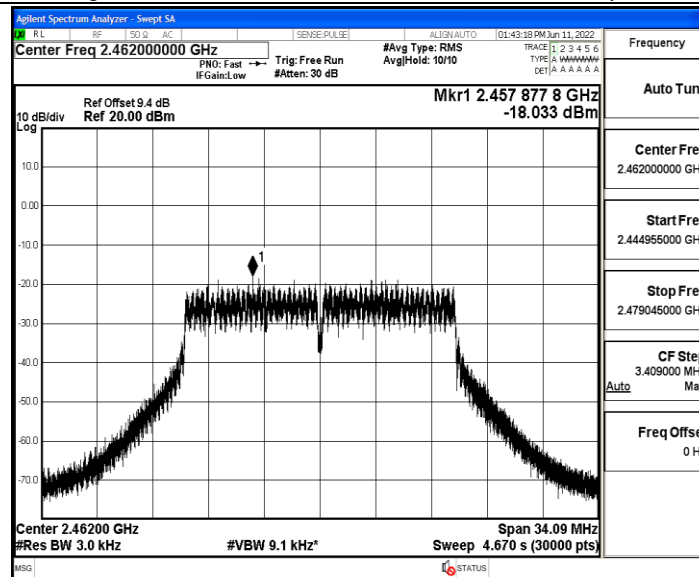
11G\_Ant1\_2412



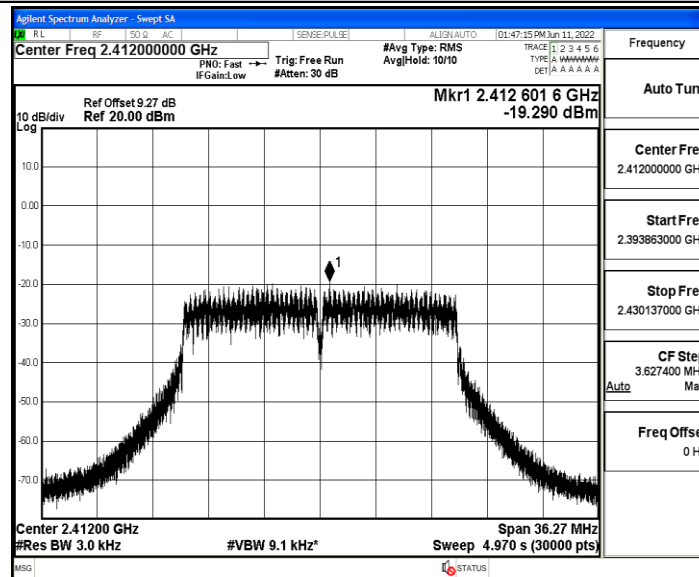
11G\_Ant1\_2437



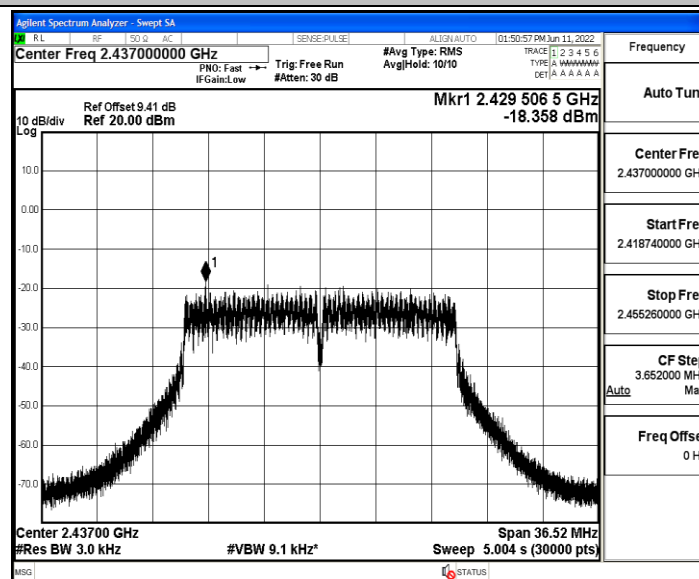
11G\_Ant1\_2462



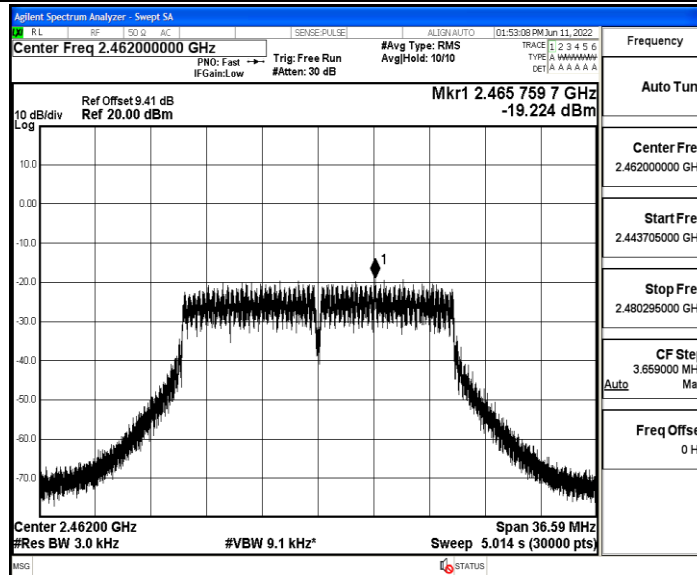
11N20SISO\_Ant1\_2412



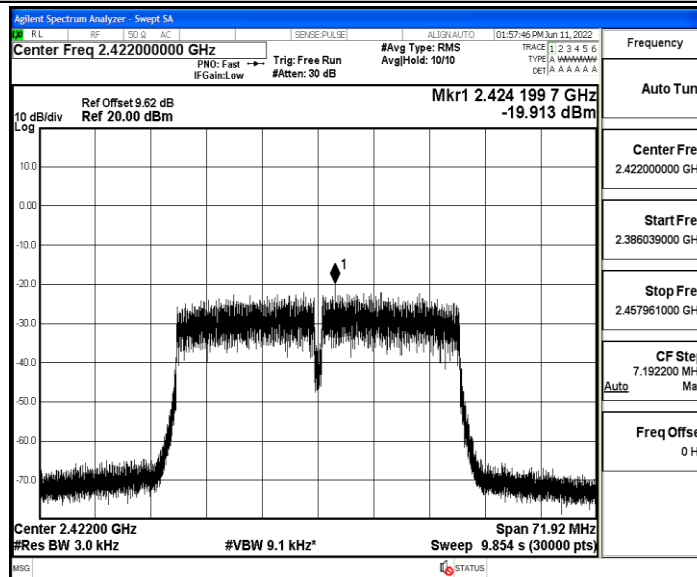
11N20SISO\_Ant1\_2437



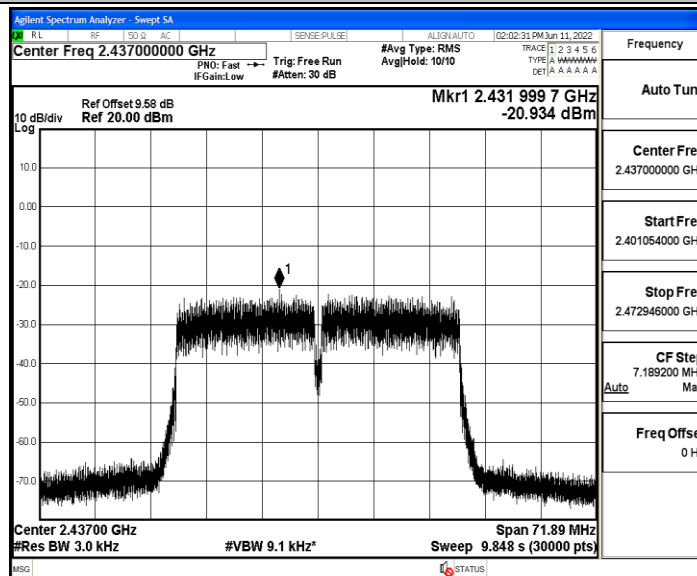
11N20SISO\_Ant1\_2462



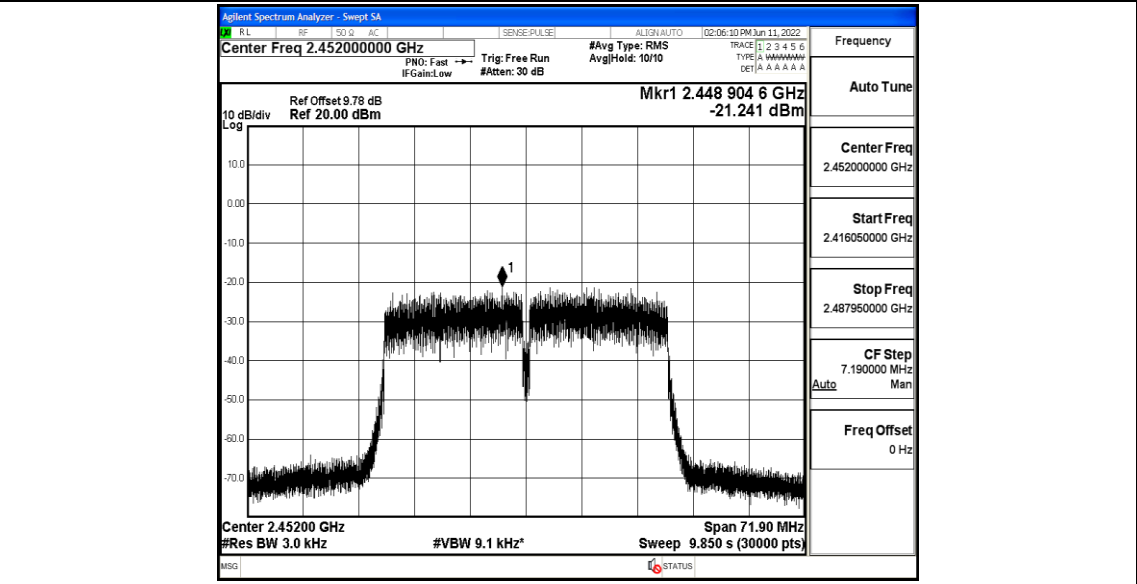
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



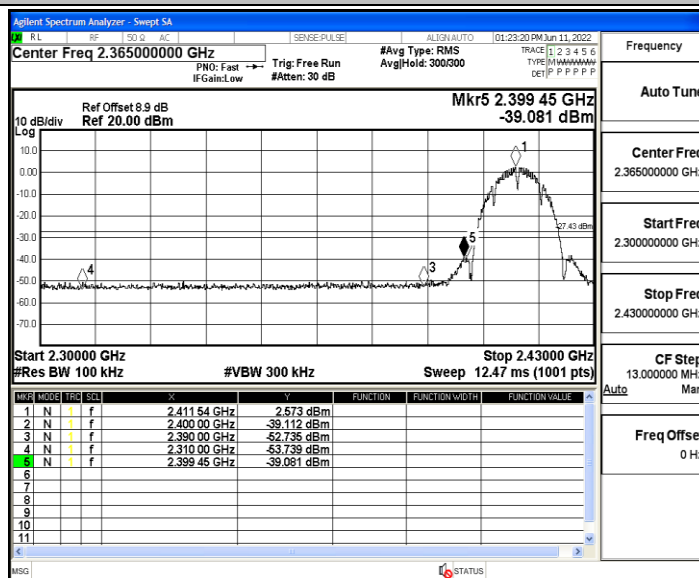
## Appendix E: Band edge measurements

### Test Result

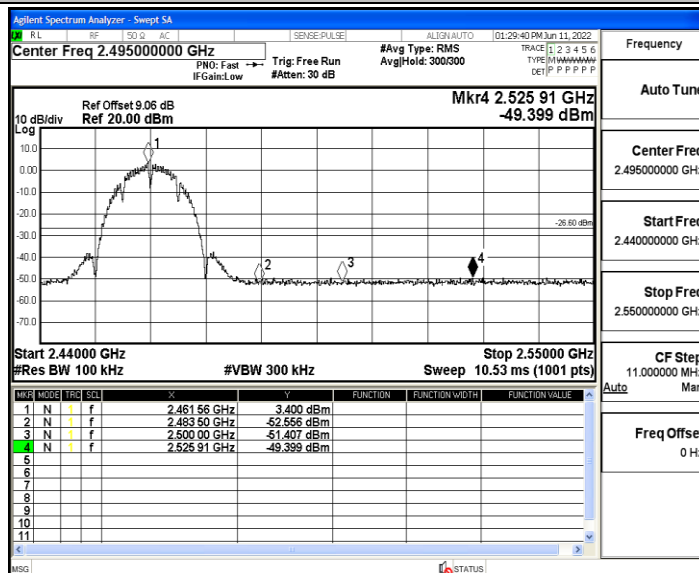
| TestMode  | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|---------|---------------|-------------|---------------|---------|
| 11B       | Ant1    | Low    | 2412    | 2.57          | -39.08      | $\leq -27.43$ | PASS    |
|           |         | High   | 2462    | 3.40          | -49.4       | $\leq -26.6$  | PASS    |
| 11G       | Ant1    | Low    | 2412    | -0.20         | -35.39      | $\leq -30.2$  | PASS    |
|           |         | High   | 2462    | 0.32          | -48.07      | $\leq -29.68$ | PASS    |
| 11N20SISO | Ant1    | Low    | 2412    | -0.21         | -36.1       | $\leq -30.21$ | PASS    |
|           |         | High   | 2462    | 0.71          | -48.34      | $\leq -29.29$ | PASS    |
| 11N40SISO | Ant1    | Low    | 2422    | -2.70         | -42.15      | $\leq -32.7$  | PASS    |
|           |         | High   | 2452    | -2.47         | -44.95      | $\leq -32.47$ | PASS    |

## Test Graphs

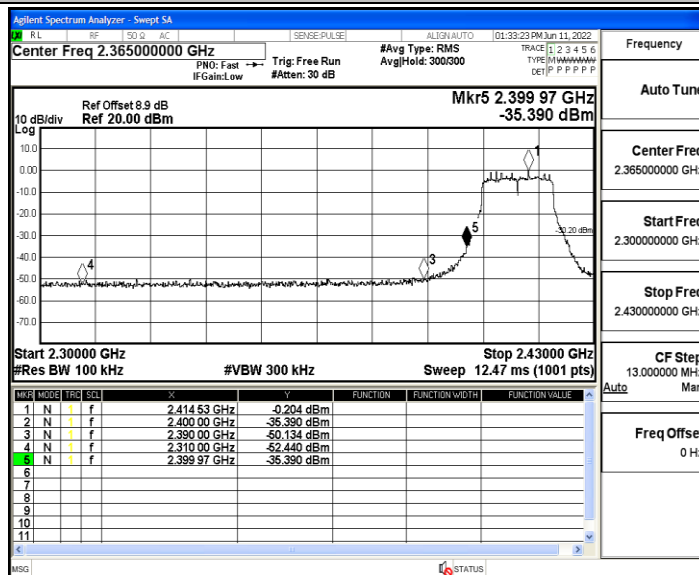
11B\_Ant1\_Low\_2412



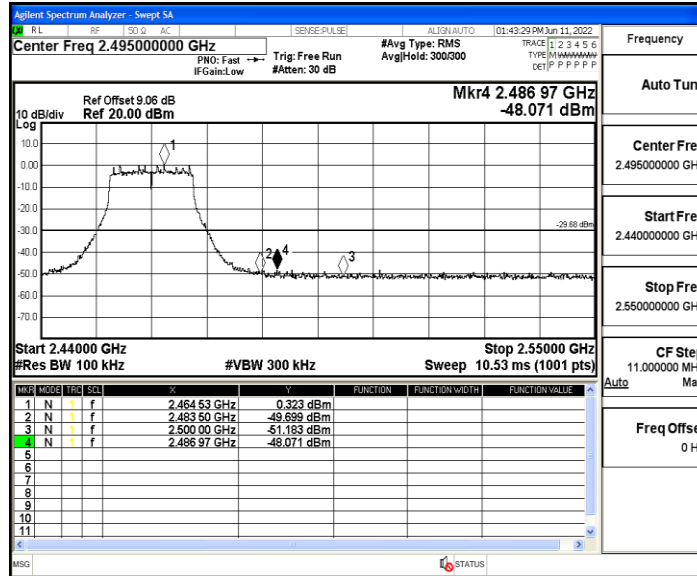
11B\_Ant1\_High\_2462



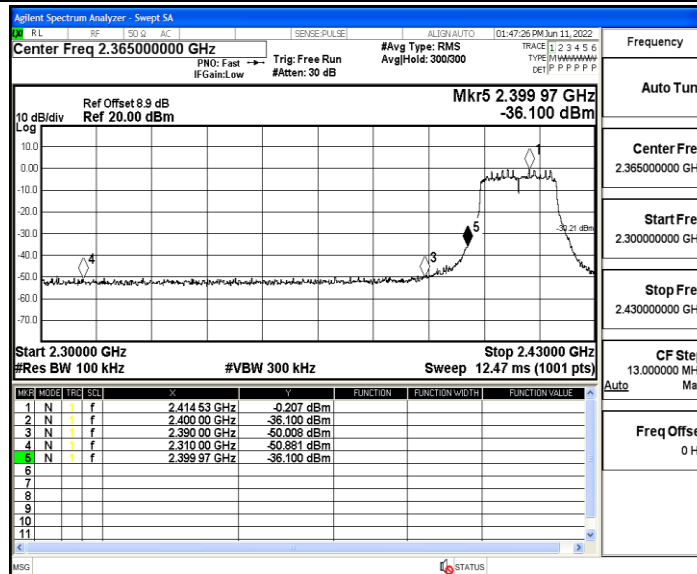
11G\_Ant1\_Low\_2412



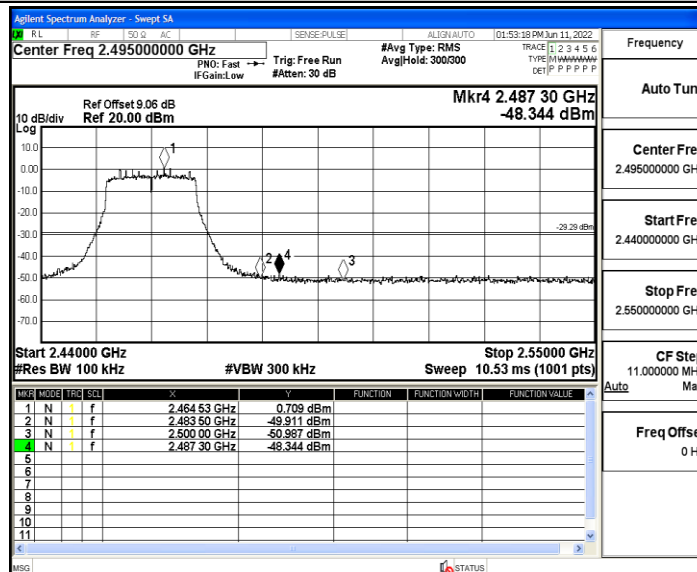
## 11G\_Ant1\_High\_2462



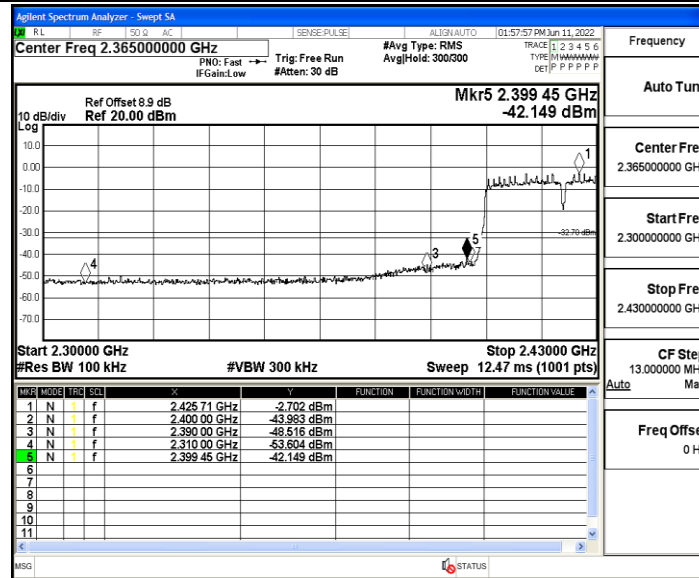
## 11N20SISO\_Ant1\_Low\_2412



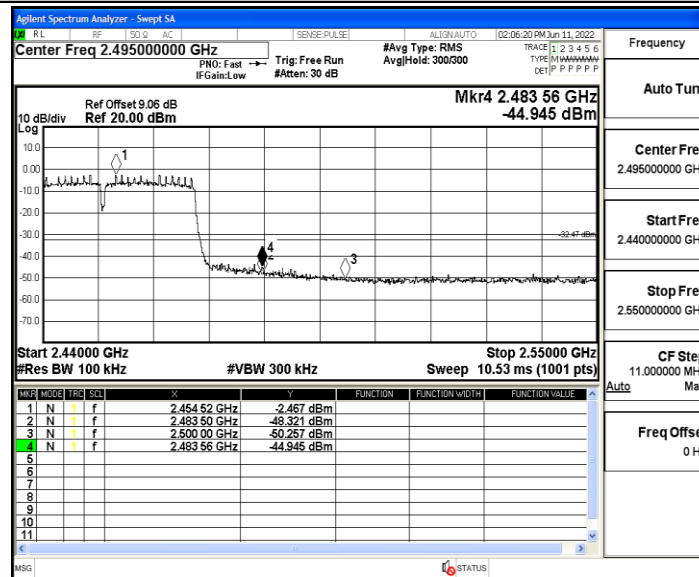
## 11N20SISO\_Ant1\_High\_2462



## 11N40SISO\_Ant1\_Low\_2422



## 11N40SISO\_Ant1\_High\_2452

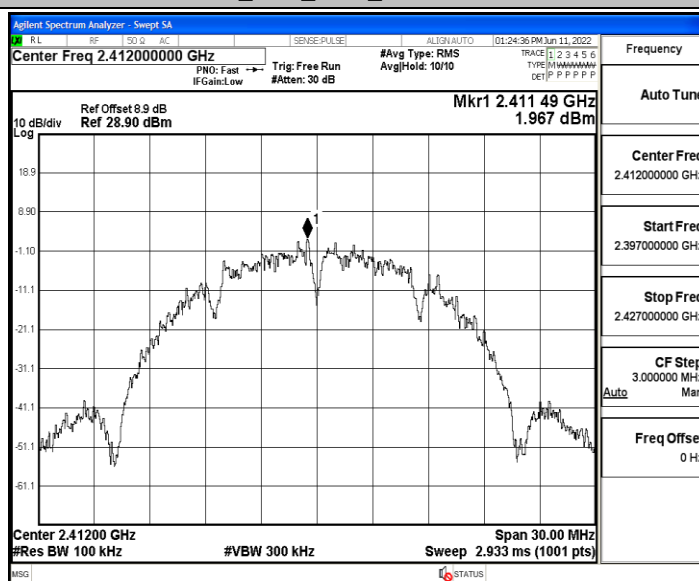


## Appendix F: Conducted Spurious Emission

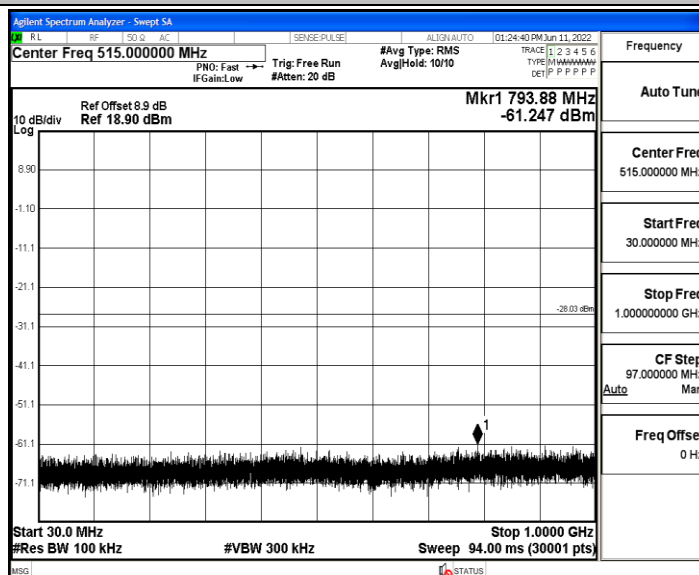
### Test Result

| TestMode  | Antenna | Channel | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | Ant1    | 2412    | Reference          | 1.97              | 1.97            | ---            | PASS    |
|           |         |         | 30~1000            | 1.97              | -61.25          | ≤-28.03        | PASS    |
|           |         |         | 1000~26500         | 1.97              | -51.24          | ≤-28.03        | PASS    |
|           |         | 2437    | Reference          | 0.21              | 0.21            | ---            | PASS    |
|           |         |         | 30~1000            | 0.21              | -61.2           | ≤-29.79        | PASS    |
|           |         |         | 1000~26500         | 0.21              | -50.82          | ≤-29.79        | PASS    |
|           |         | 2462    | Reference          | 2.25              | 2.25            | ---            | PASS    |
|           |         |         | 30~1000            | 2.25              | -60.93          | ≤-27.75        | PASS    |
|           |         |         | 1000~26500         | 2.25              | -51.41          | ≤-27.75        | PASS    |
| 11G       | Ant1    | 2412    | Reference          | -2.69             | -2.69           | ---            | PASS    |
|           |         |         | 30~1000            | -2.69             | -61.62          | ≤-32.69        | PASS    |
|           |         |         | 1000~26500         | -2.69             | -50.78          | ≤-32.69        | PASS    |
|           |         | 2437    | Reference          | -3.20             | -3.20           | ---            | PASS    |
|           |         |         | 30~1000            | -3.20             | -61.46          | ≤-33.2         | PASS    |
|           |         |         | 1000~26500         | -3.20             | -51.48          | ≤-33.2         | PASS    |
|           |         | 2462    | Reference          | 0.47              | 0.47            | ---            | PASS    |
|           |         |         | 30~1000            | 0.47              | -61.09          | ≤-29.53        | PASS    |
|           |         |         | 1000~26500         | 0.47              | -50.43          | ≤-29.53        | PASS    |
| 11N20SISO | Ant1    | 2412    | Reference          | -1.17             | -1.17           | ---            | PASS    |
|           |         |         | 30~1000            | -1.17             | -61.81          | ≤-31.17        | PASS    |
|           |         |         | 1000~26500         | -1.17             | -51.37          | ≤-31.17        | PASS    |
|           |         | 2437    | Reference          | -0.56             | -0.56           | ---            | PASS    |
|           |         |         | 30~1000            | -0.56             | -61.73          | ≤-30.56        | PASS    |
|           |         |         | 1000~26500         | -0.56             | -50.47          | ≤-30.56        | PASS    |
|           |         | 2462    | Reference          | -1.18             | -1.18           | ---            | PASS    |
|           |         |         | 30~1000            | -1.18             | -61.29          | ≤-31.18        | PASS    |
|           |         |         | 1000~26500         | -1.18             | -50.45          | ≤-31.18        | PASS    |
| 11N40SISO | Ant1    | 2422    | Reference          | -2.94             | -2.94           | ---            | PASS    |
|           |         |         | 30~1000            | -2.94             | -61.47          | ≤-32.94        | PASS    |
|           |         |         | 1000~26500         | -2.94             | -50.74          | ≤-32.94        | PASS    |
|           |         | 2437    | Reference          | -3.79             | -3.79           | ---            | PASS    |
|           |         |         | 30~1000            | -3.79             | -61.12          | ≤-33.79        | PASS    |
|           |         |         | 1000~26500         | -3.79             | -50.57          | ≤-33.79        | PASS    |
|           |         | 2452    | Reference          | -2.60             | -2.60           | ---            | PASS    |
|           |         |         | 30~1000            | -2.60             | -61.7           | ≤-32.6         | PASS    |
|           |         |         | 1000~26500         | -2.60             | -50.61          | ≤-32.6         | PASS    |

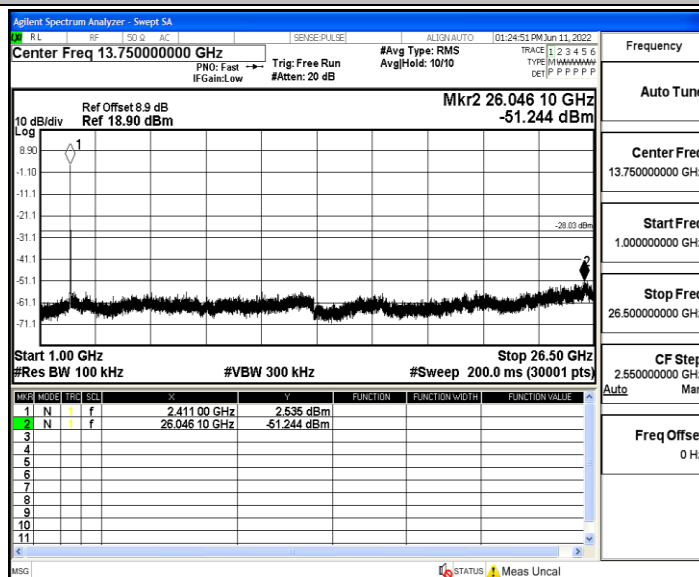
## 11B Ant1 2412 0~Reference



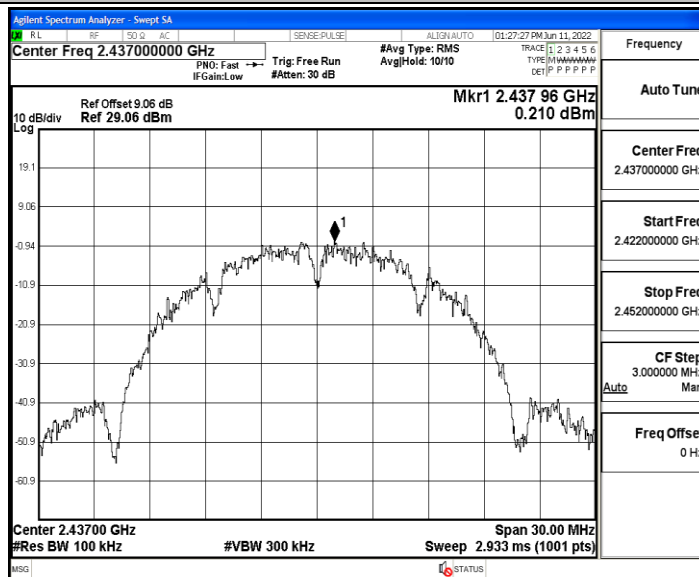
11B Ant1 2412 30~1000



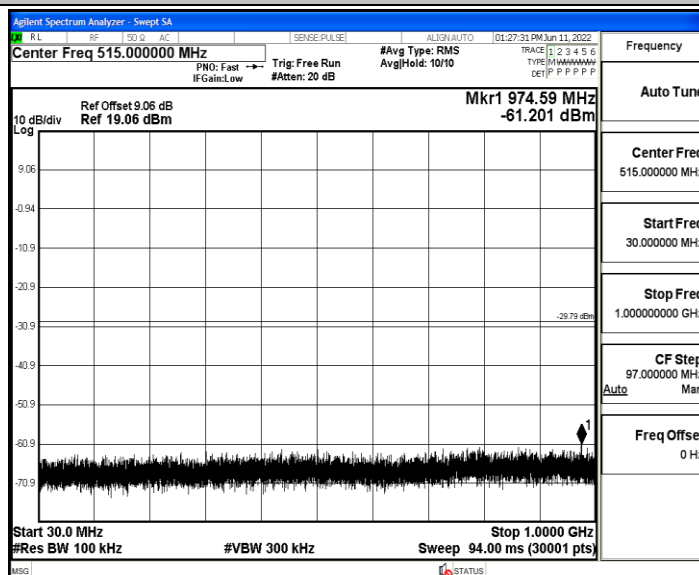
11B Ant1 2412 1000~26500



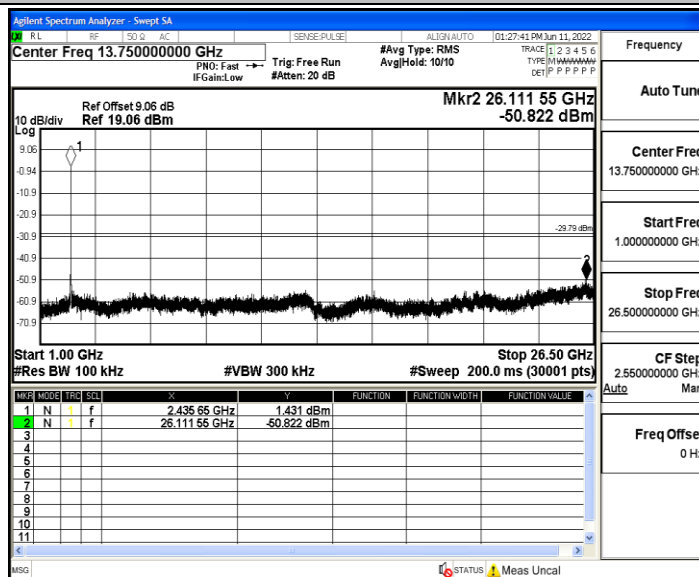
## 11B\_Ant1\_2437\_0~Reference



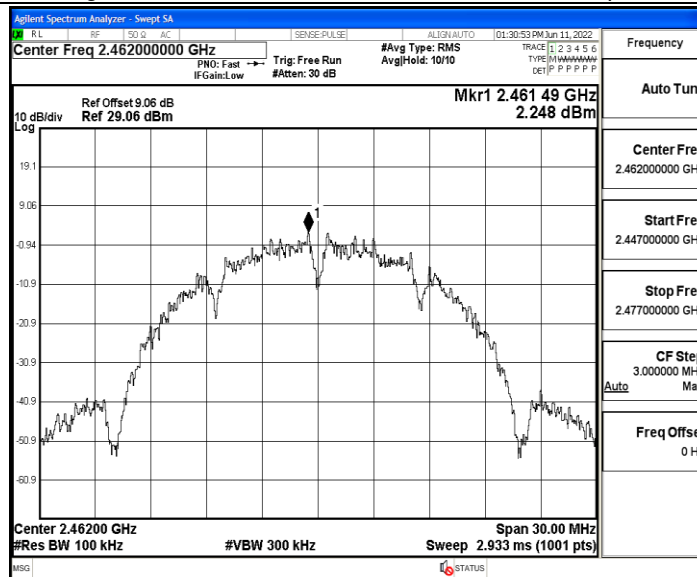
## 11B\_Ant1\_2437\_30~1000



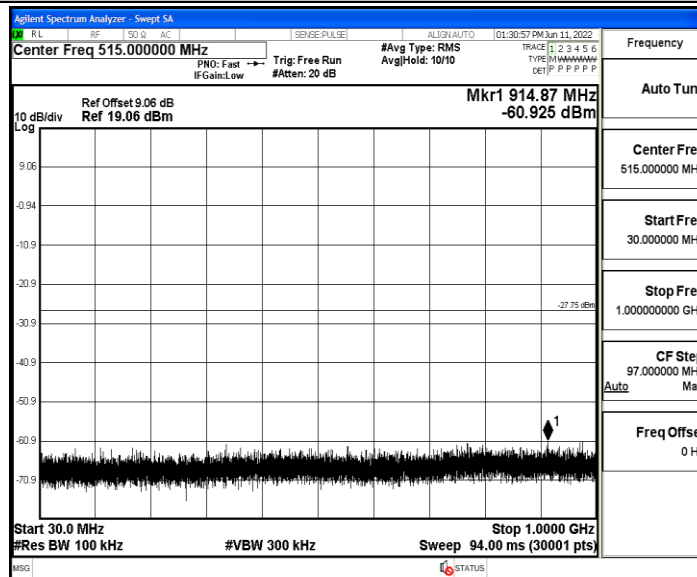
## 11B\_Ant1\_2437\_1000~26500



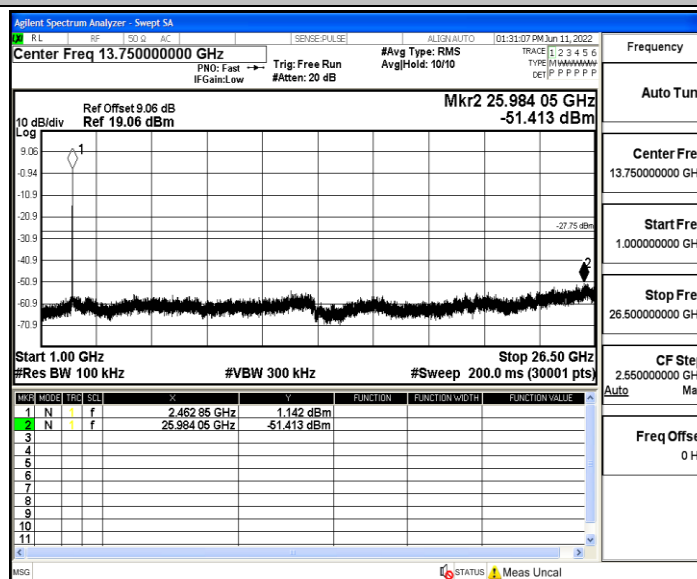
## 11B\_Ant1\_2462\_0~Reference



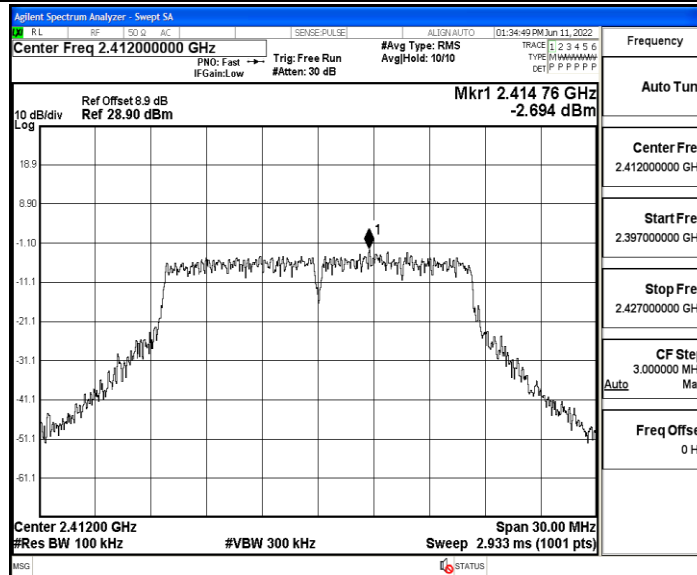
11B\_Ant1\_2462\_30~1000



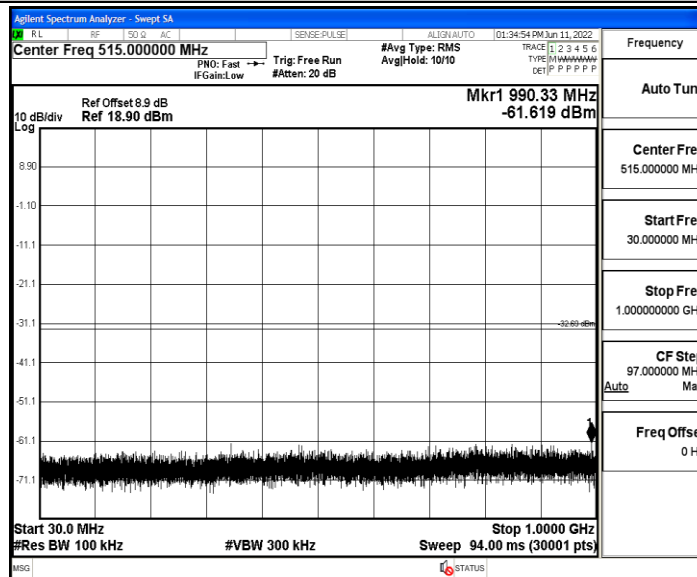
11B\_Ant1\_2462\_1000~26500



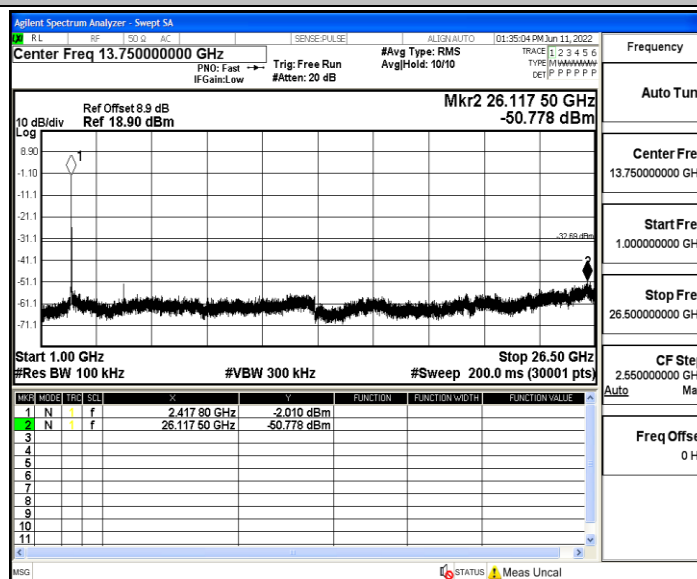
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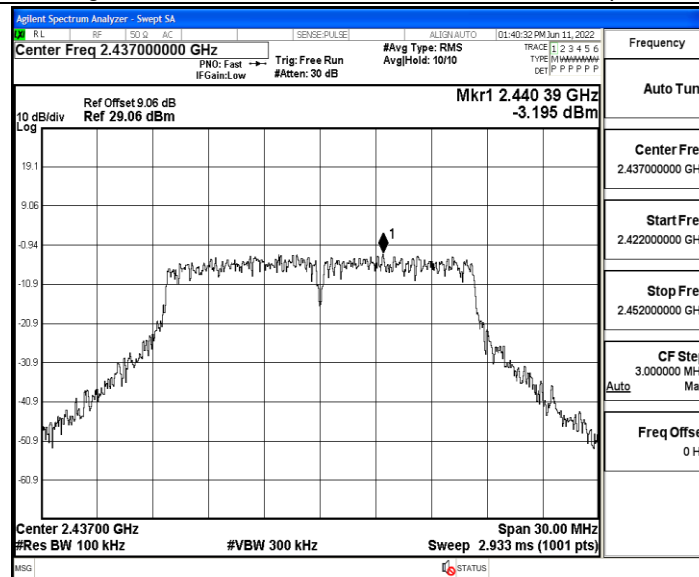
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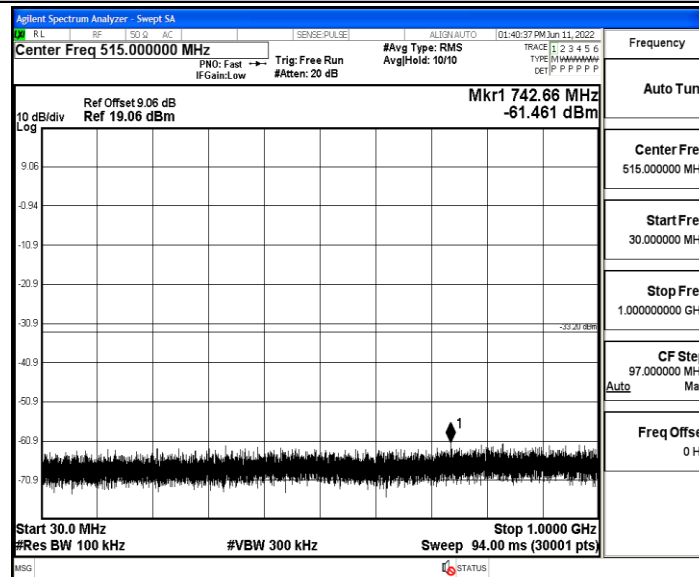
11G\_Ant1\_2412\_1000~26500



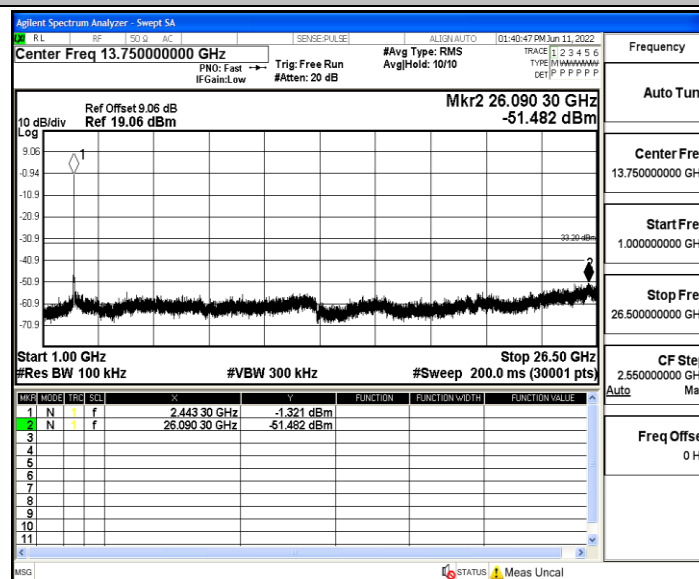
11G\_Ant1\_2437\_0~Reference



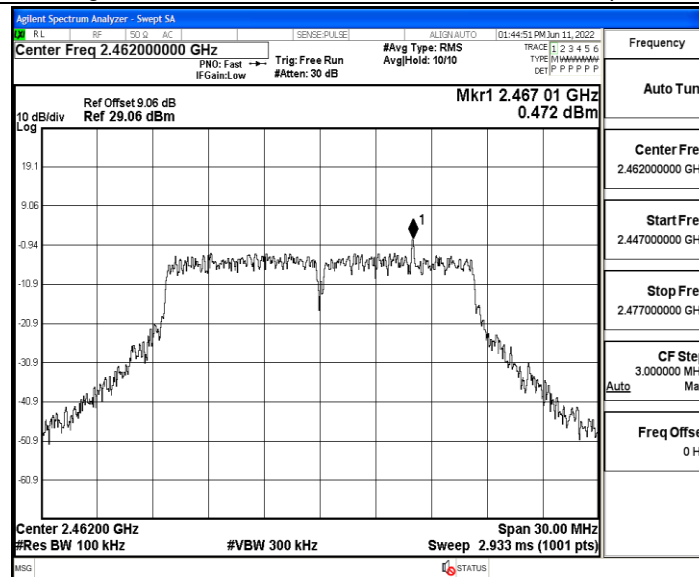
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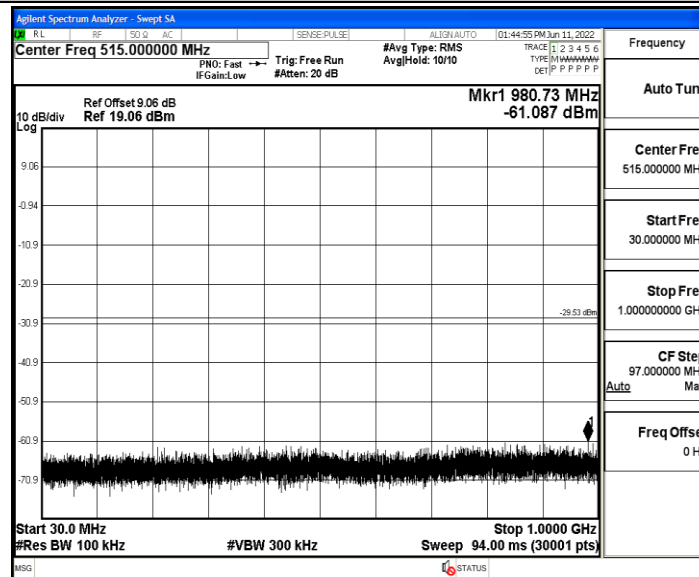
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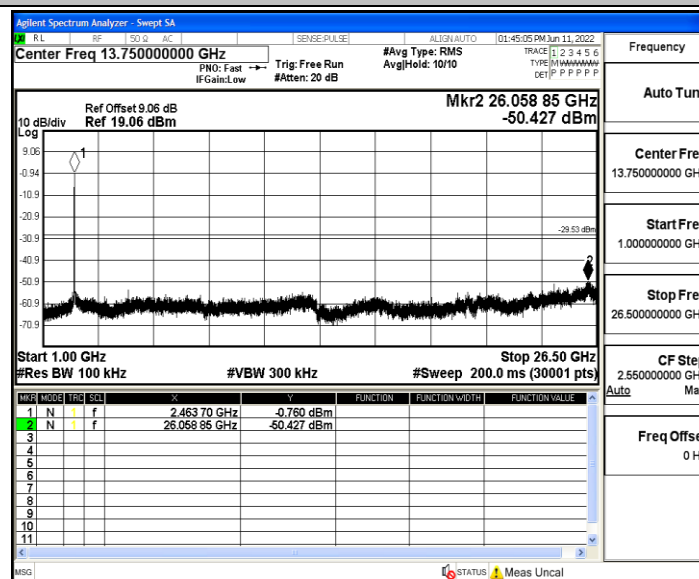
11G\_Ant1\_2462\_0~Reference



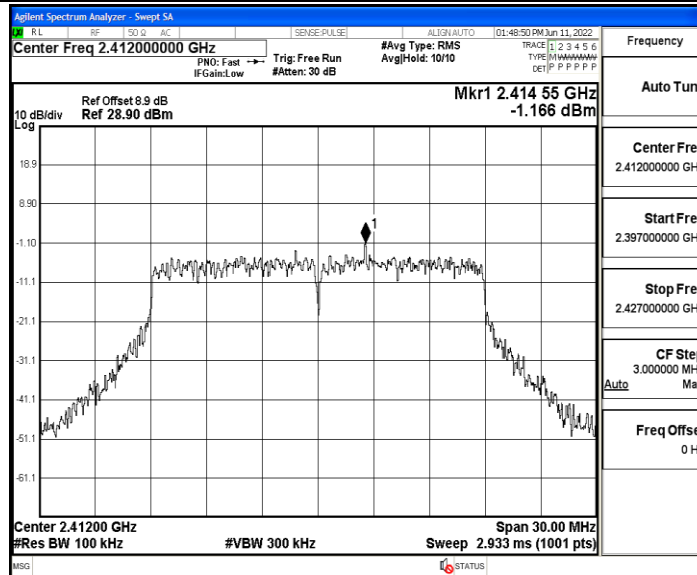
11G\_Ant1\_2462\_30~1000



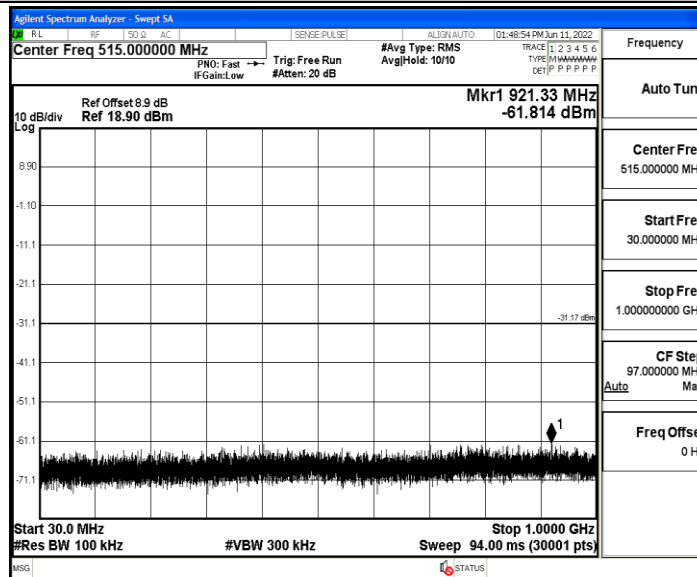
11G\_Ant1\_2462\_1000~26500



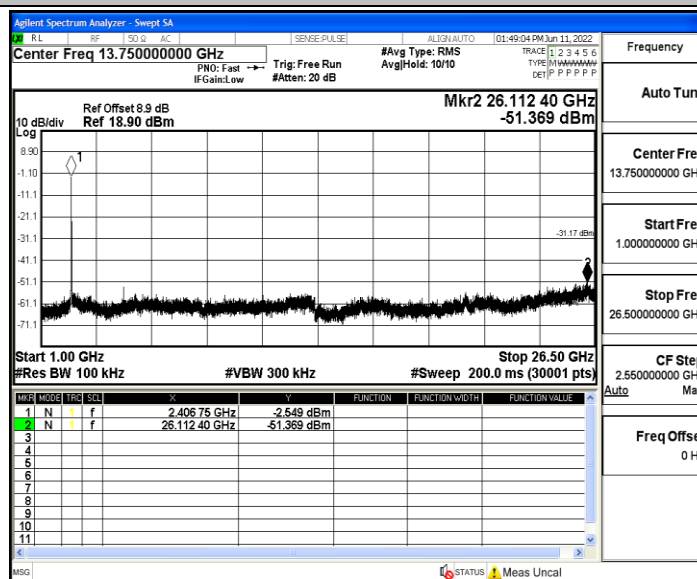
11N20SISO\_Ant1\_2412\_0~Reference



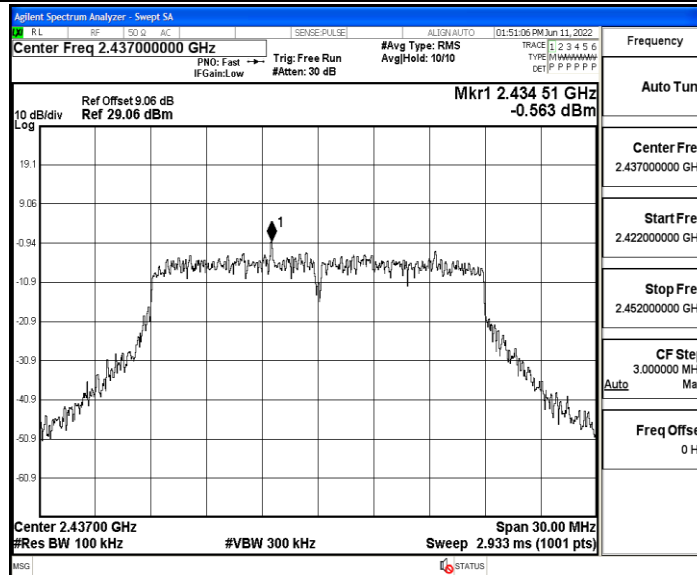
11N20SISO\_Ant1\_2412\_30~1000



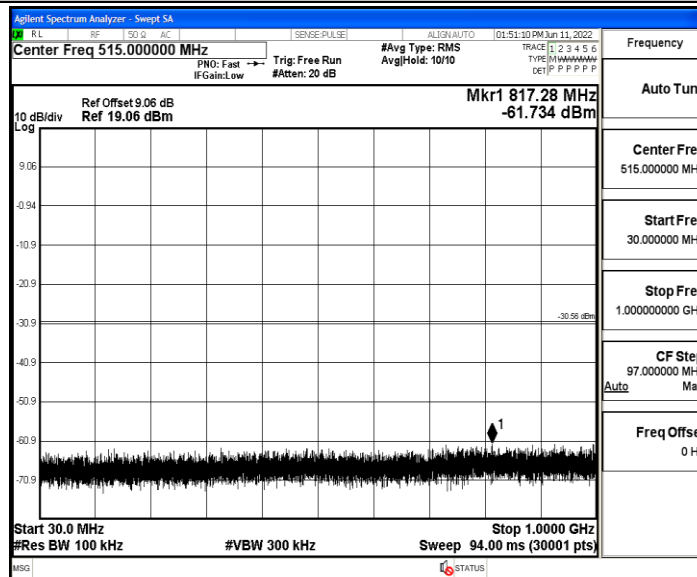
11N20SISO\_Ant1\_2412\_1000~26500



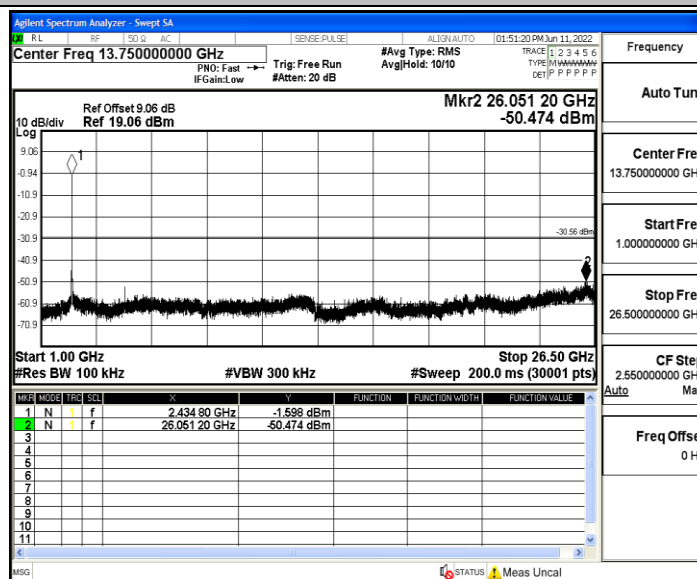
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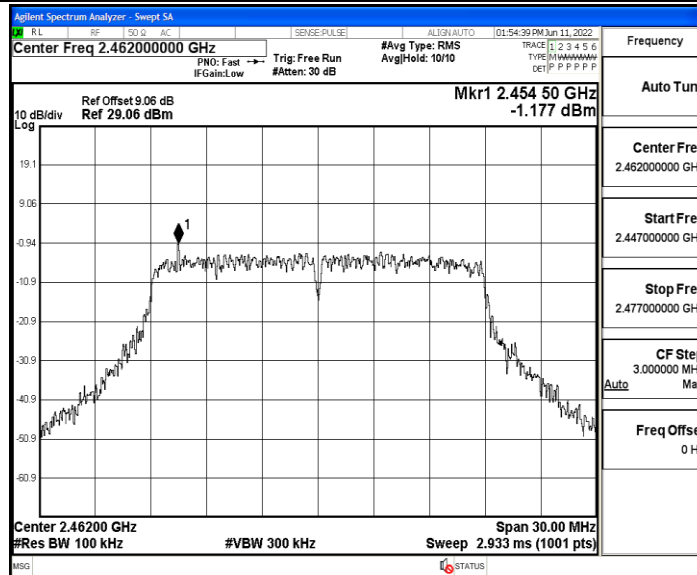
11N20SISO\_Ant1\_2437\_30~1000



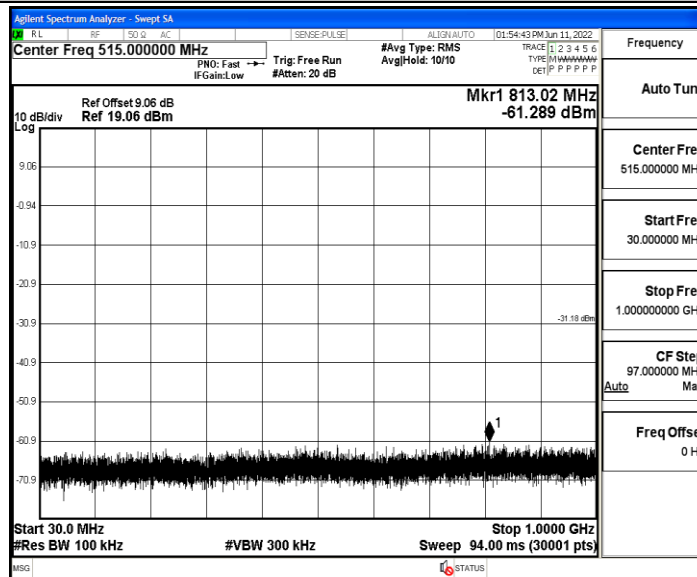
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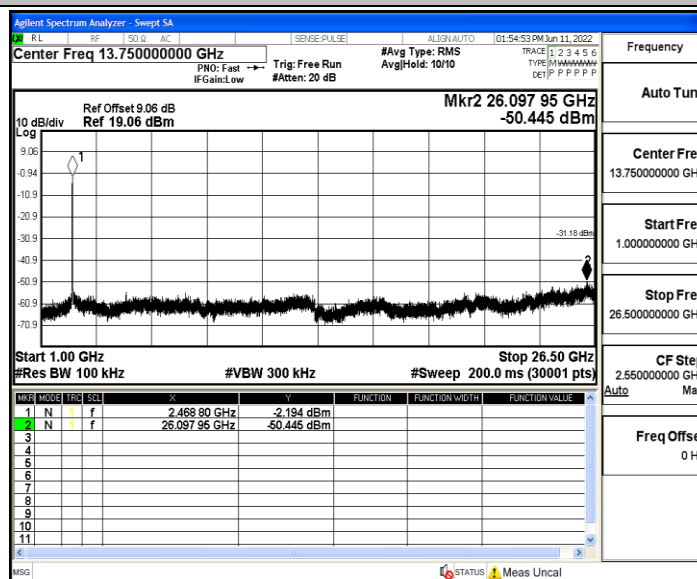
11N20SISO\_Ant1\_2462\_0~Reference



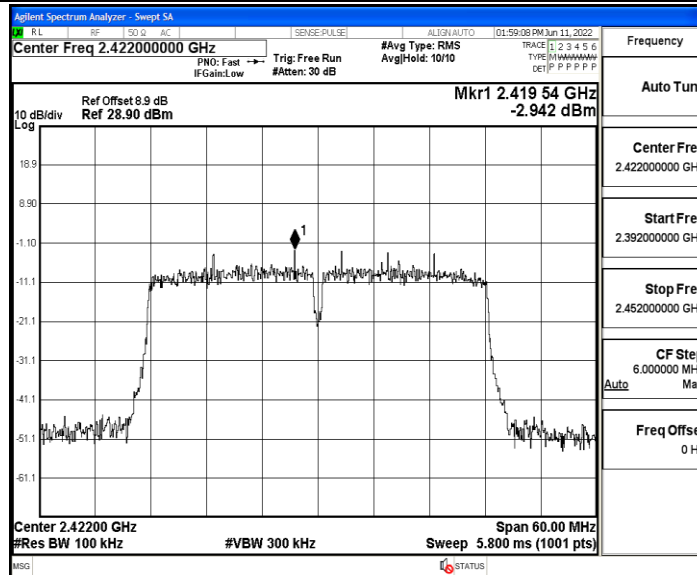
11N20SISO\_Ant1\_2462\_30~1000



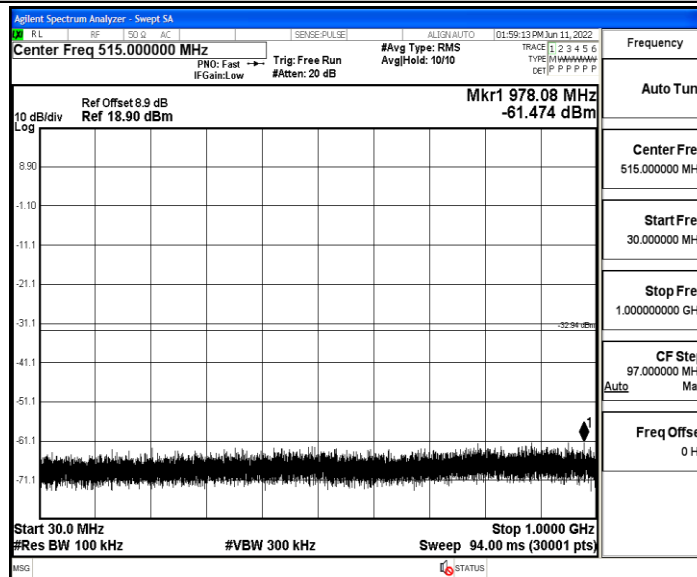
11N20SISO\_Ant1\_2462\_1000~26500



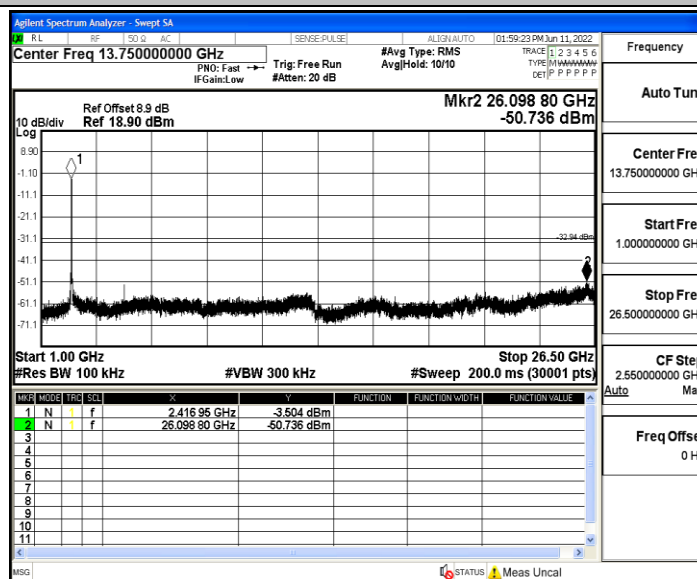
11N40SISO\_Ant1\_2422\_0~Reference



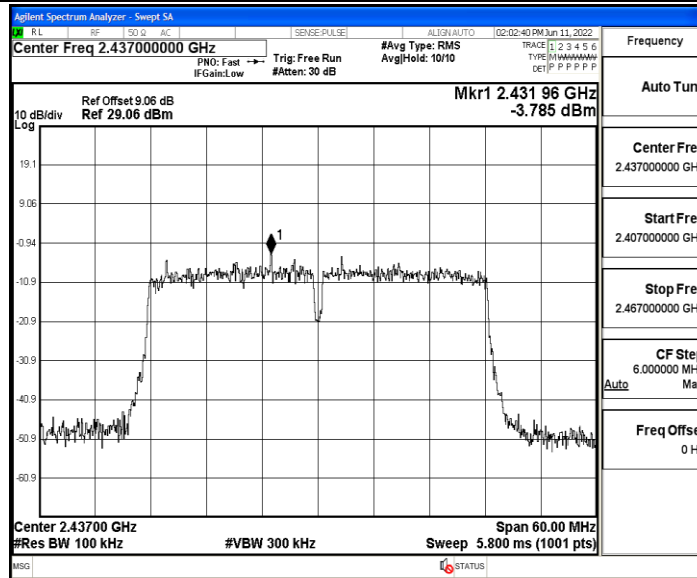
11N40SISO\_Ant1\_2422\_30~1000



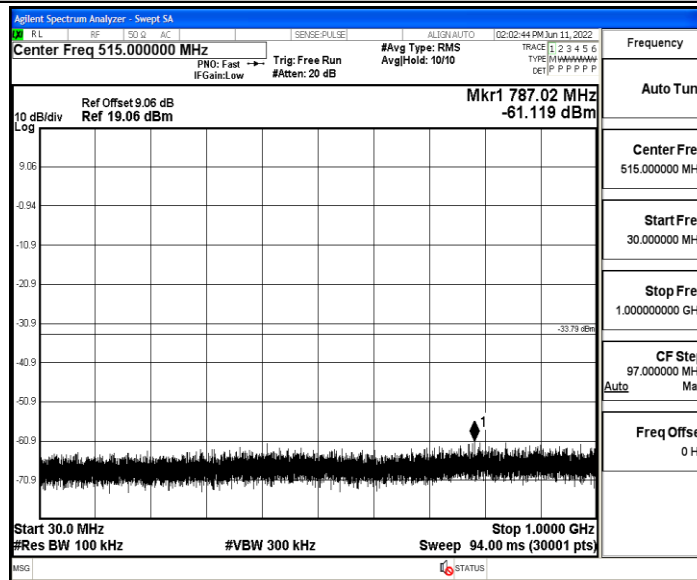
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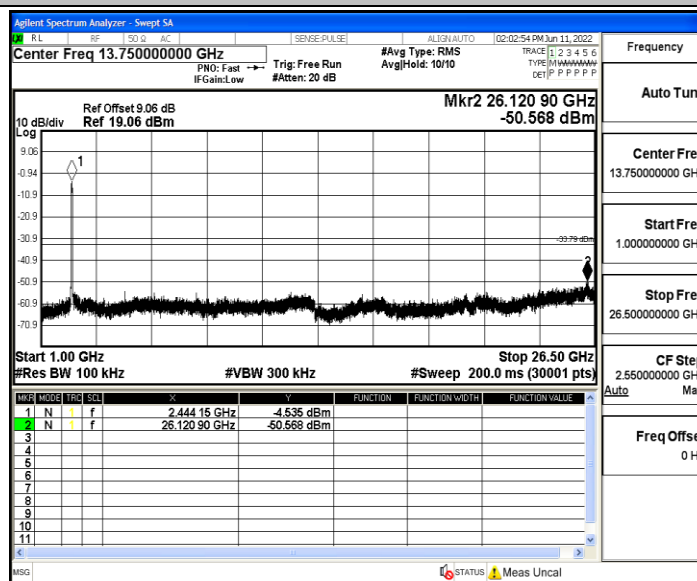
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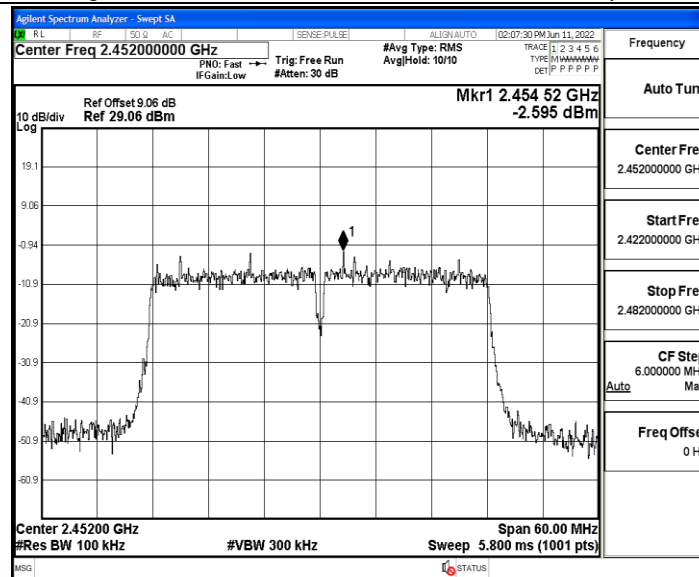
11N40SISO\_Ant1\_2437\_30~1000



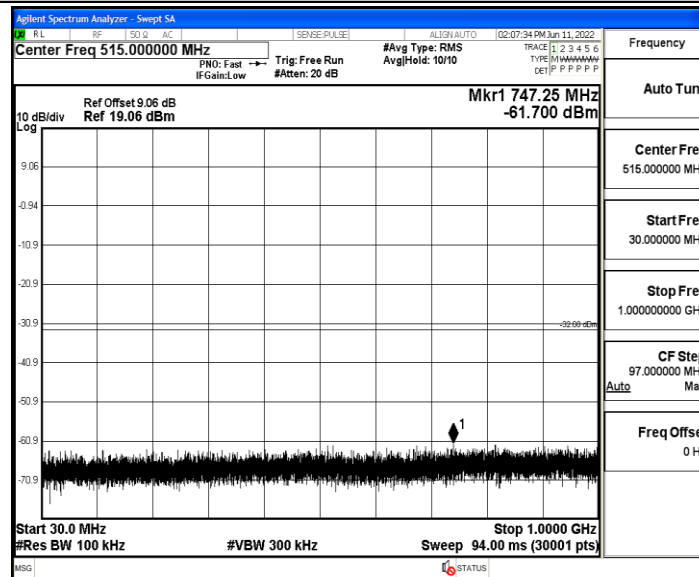
11N40SISO\_Ant1\_2437\_1000~26500



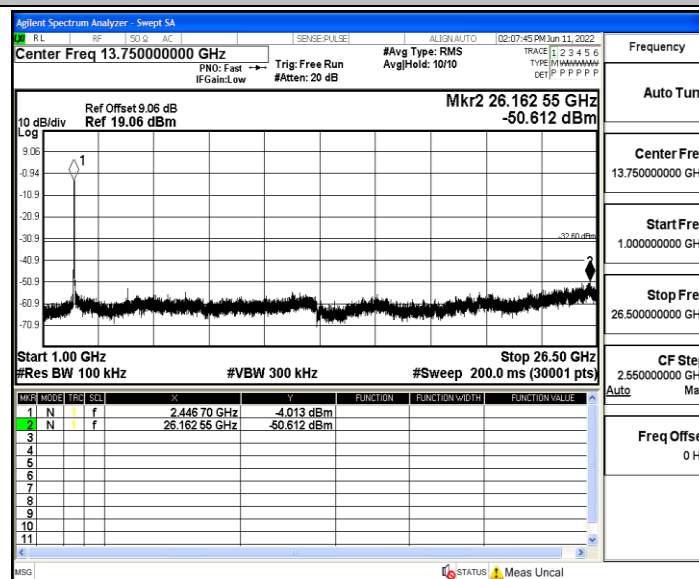
11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_30~1000



11N40SISO\_Ant1\_2452\_1000~26500



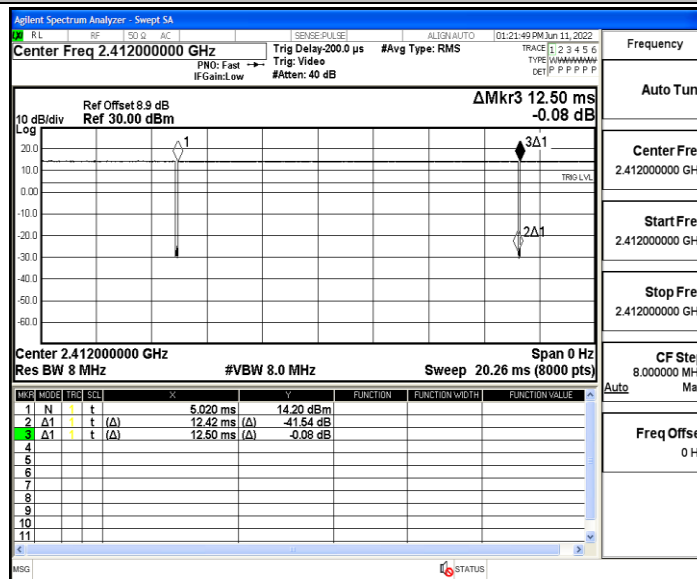
## Appendix G: Duty Cycle

### Test Result

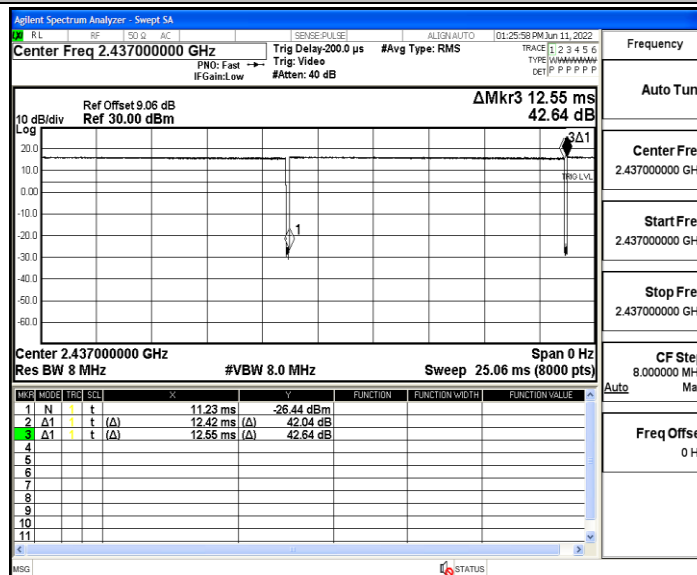
| TestMode  | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T[kHz] |
|-----------|---------|---------|----------------------------|--------------------------|----------------|----------|
| 11B       | Ant1    | 2412    | 12.42                      | 12.50                    | 99.36          | 0.08     |
|           |         | 2437    | 12.42                      | 12.55                    | 98.96          | 0.08     |
|           |         | 2462    | 12.42                      | 12.45                    | 99.76          | 0.08     |
| 11G       | Ant1    | 2412    | 2.07                       | 2.22                     | 93.24          | 0.48     |
|           |         | 2437    | 2.07                       | 2.23                     | 92.83          | 0.48     |
|           |         | 2462    | 2.06                       | 2.23                     | 92.38          | 0.49     |
| 11N20SISO | Ant1    | 2412    | 1.92                       | 2.09                     | 91.87          | 0.52     |
|           |         | 2437    | 1.93                       | 2.09                     | 92.34          | 0.52     |
|           |         | 2462    | 1.92                       | 2.08                     | 92.31          | 0.52     |
| 11N40SISO | Ant1    | 2422    | 0.95                       | 1.12                     | 84.82          | 1.05     |
|           |         | 2437    | 0.95                       | 1.07                     | 88.79          | 1.05     |
|           |         | 2452    | 0.95                       | 1.12                     | 84.82          | 1.05     |

## Test Graphs

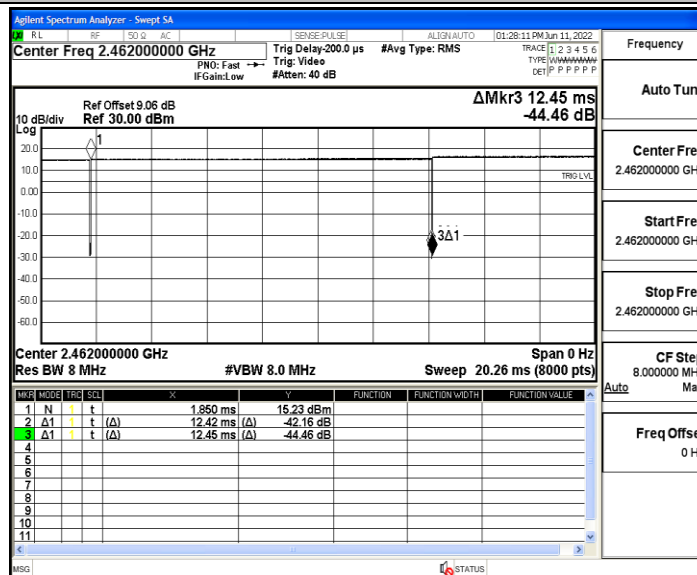
11B\_Ant1\_2412



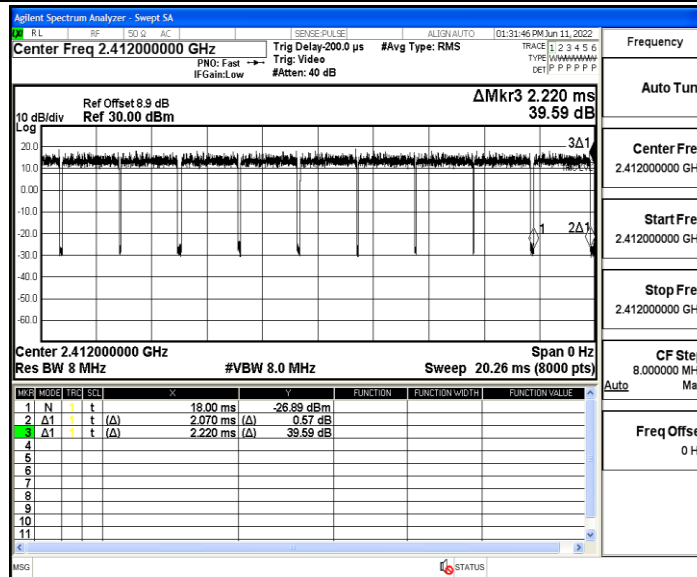
11B\_Ant1\_2437



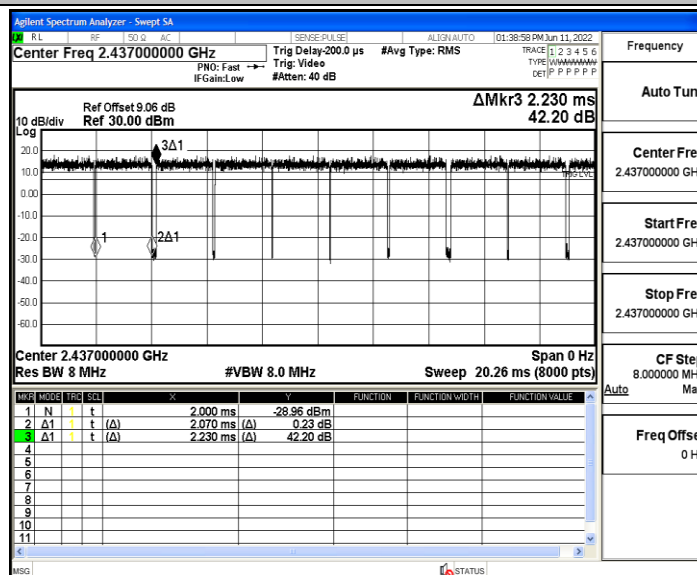
11B\_Ant1\_2462



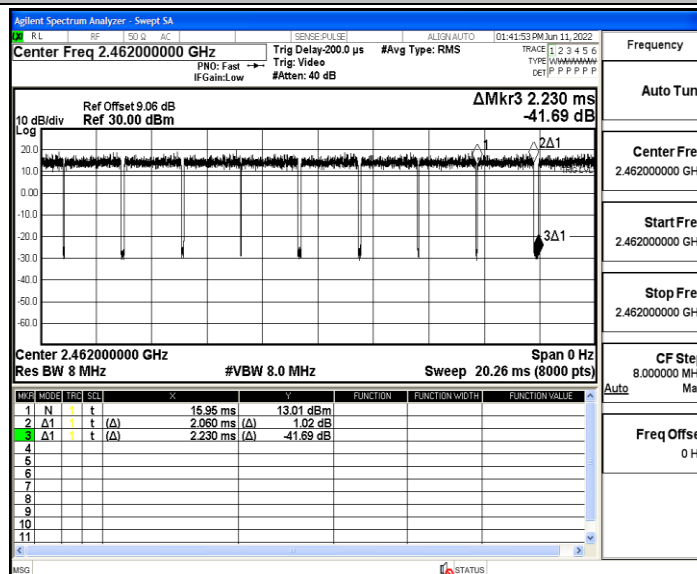
## 11G\_Ant1\_2412



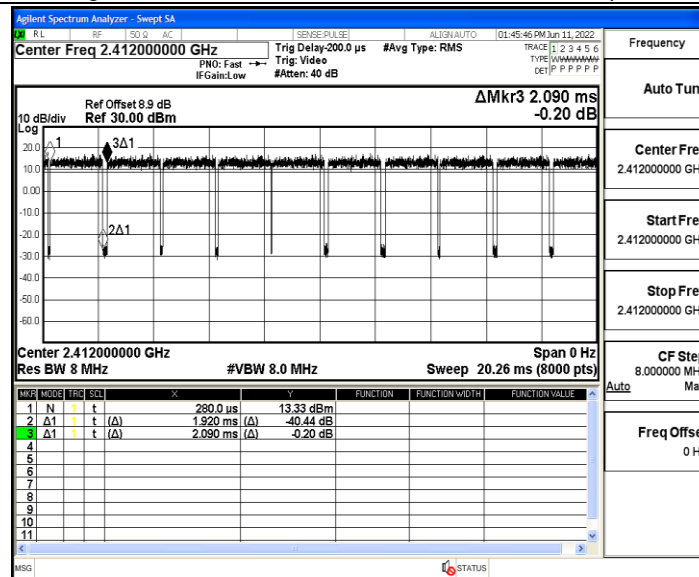
## 11G\_Ant1\_2437



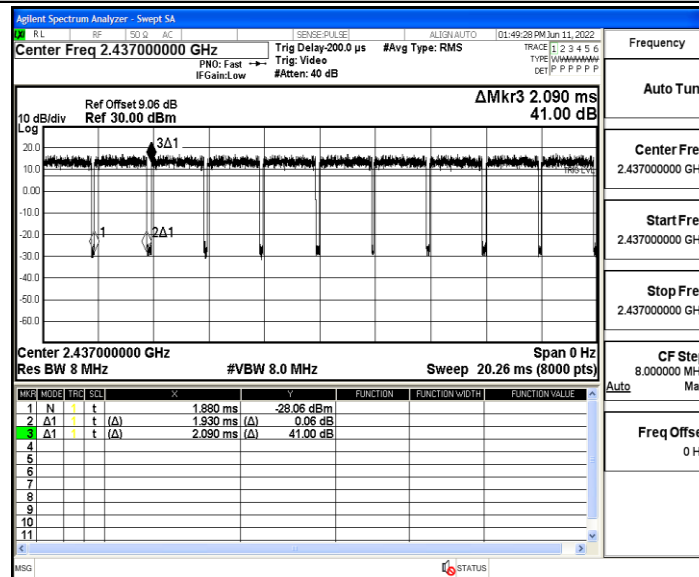
## 11G\_Ant1\_2462



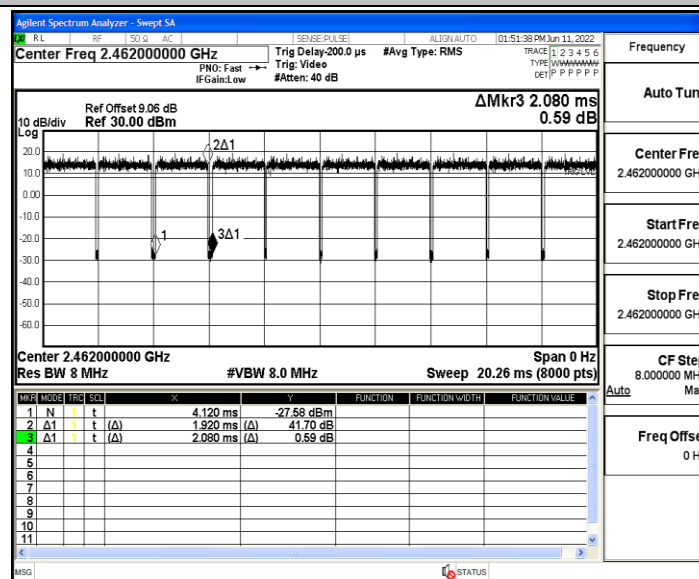
## 11N20SISO\_Ant1\_2412



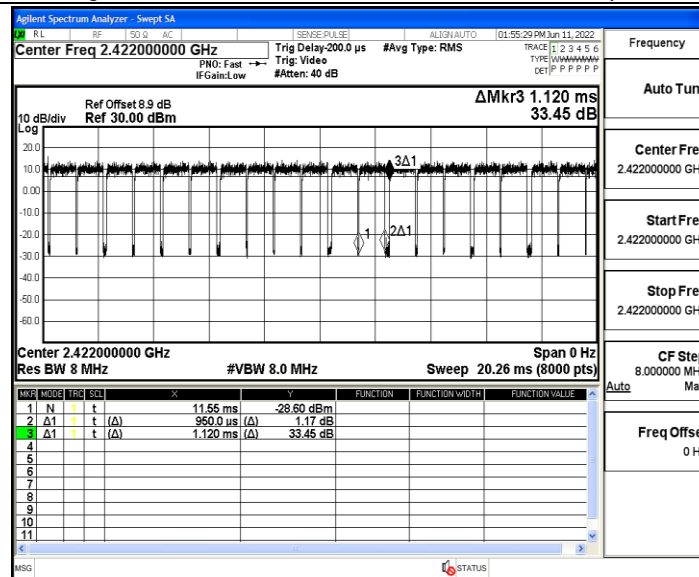
11N20SISO\_Ant1\_2437



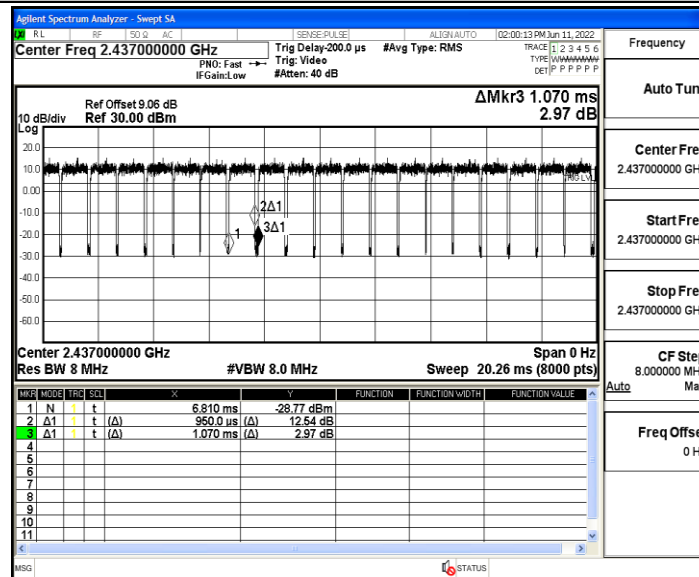
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

