

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

Product Name: Tablet PC

Trade Mark: **ZDK**

Test Model: T30

FCC ID: 2A97PT30

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | #Temp.    |
| Relative Humidity: | #Humidity |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

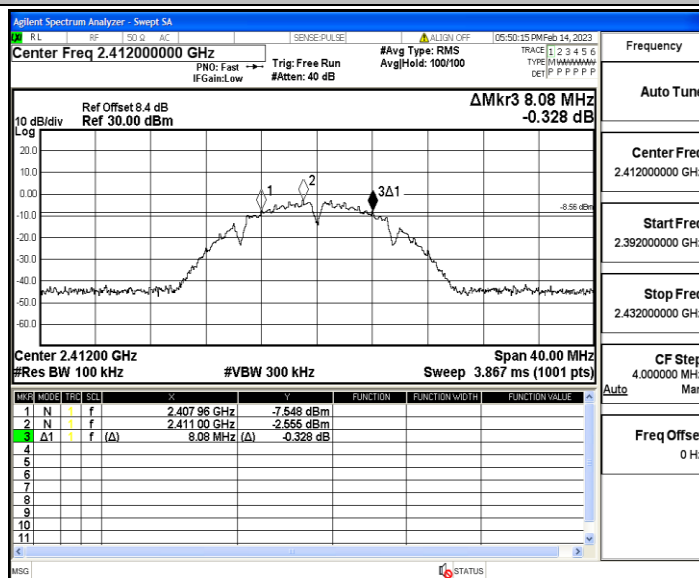
## Appendix A: DTS Bandwidth

### Test Result

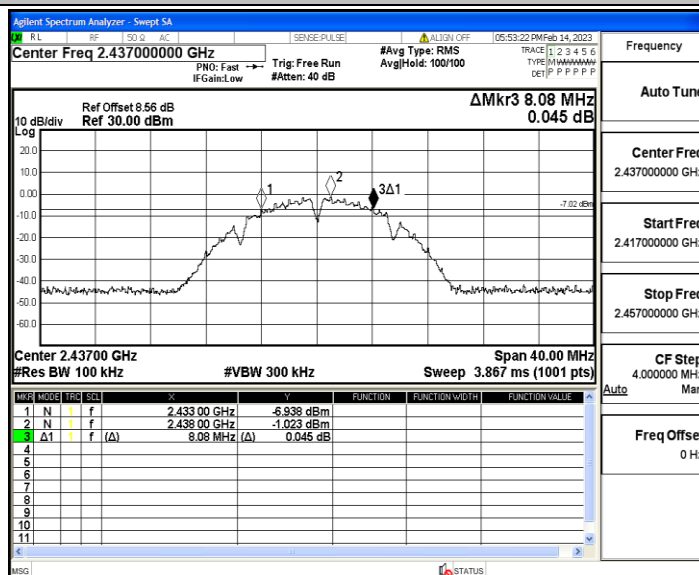
| TestMode  | Antenna | Channel | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 8.080           | 2407.960 | 2416.040 | 0.5        | PASS    |
|           |         | 2437    | 8.080           | 2433.000 | 2441.080 | 0.5        | PASS    |
|           |         | 2462    | 8.560           | 2457.960 | 2466.520 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 15.960          | 2403.840 | 2419.800 | 0.5        | PASS    |
|           |         | 2437    | 15.440          | 2429.720 | 2445.160 | 0.5        | PASS    |
|           |         | 2462    | 15.760          | 2454.440 | 2470.200 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412    | 15.920          | 2403.640 | 2419.560 | 0.5        | PASS    |
|           |         | 2437    | 15.840          | 2429.560 | 2445.400 | 0.5        | PASS    |
|           |         | 2462    | 16.360          | 2454.480 | 2470.840 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422    | 35.360          | 2404.480 | 2439.840 | 0.5        | PASS    |
|           |         | 2437    | 27.600          | 2421.960 | 2449.560 | 0.5        | PASS    |
|           |         | 2452    | 21.280          | 2434.480 | 2455.760 | 0.5        | PASS    |

## Test Graphs

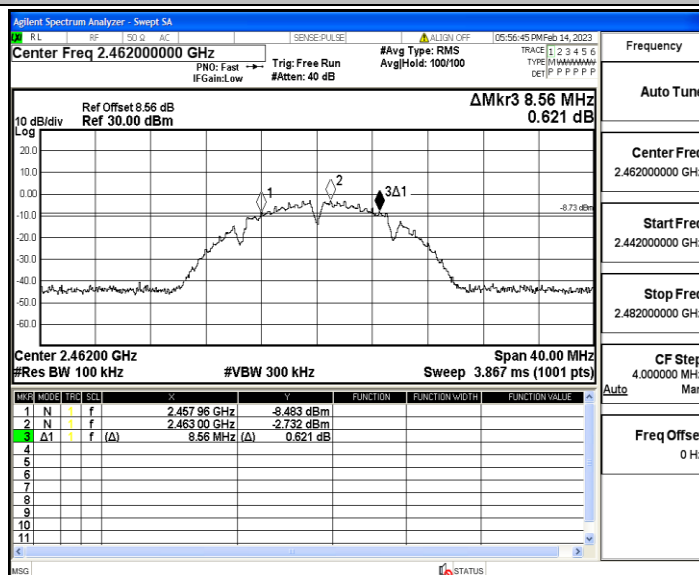
11B\_Ant1\_2412



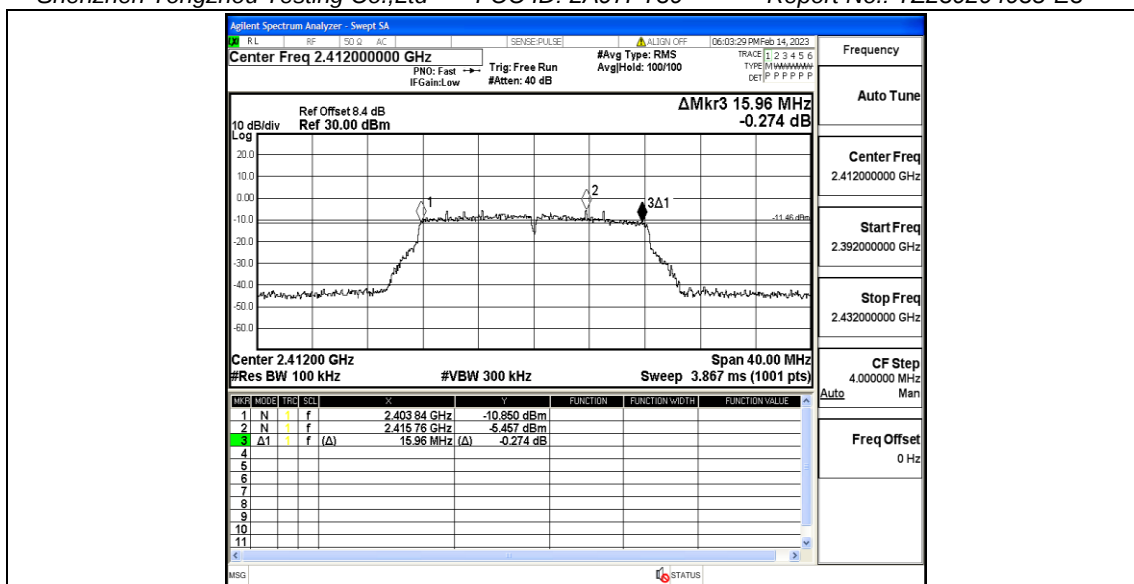
11B\_Ant1\_2437



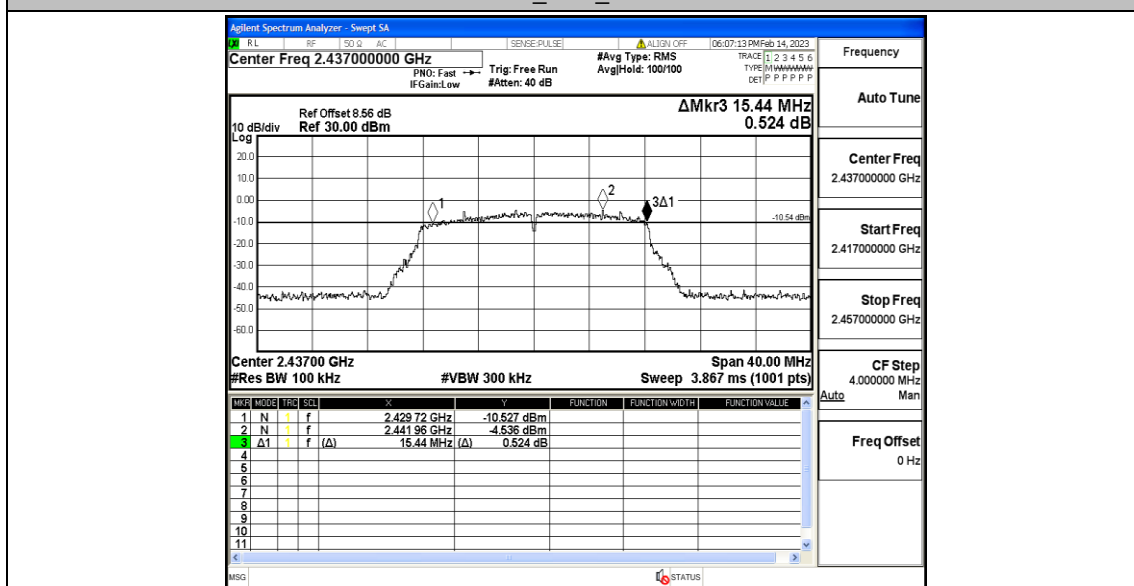
11B\_Ant1\_2462



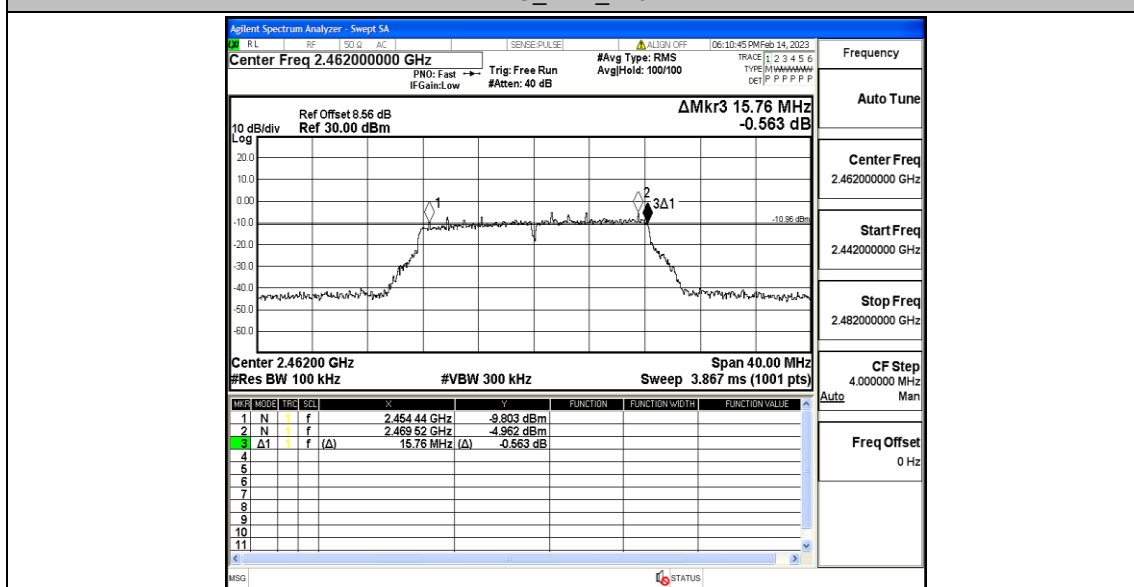
11G\_Ant1\_2412



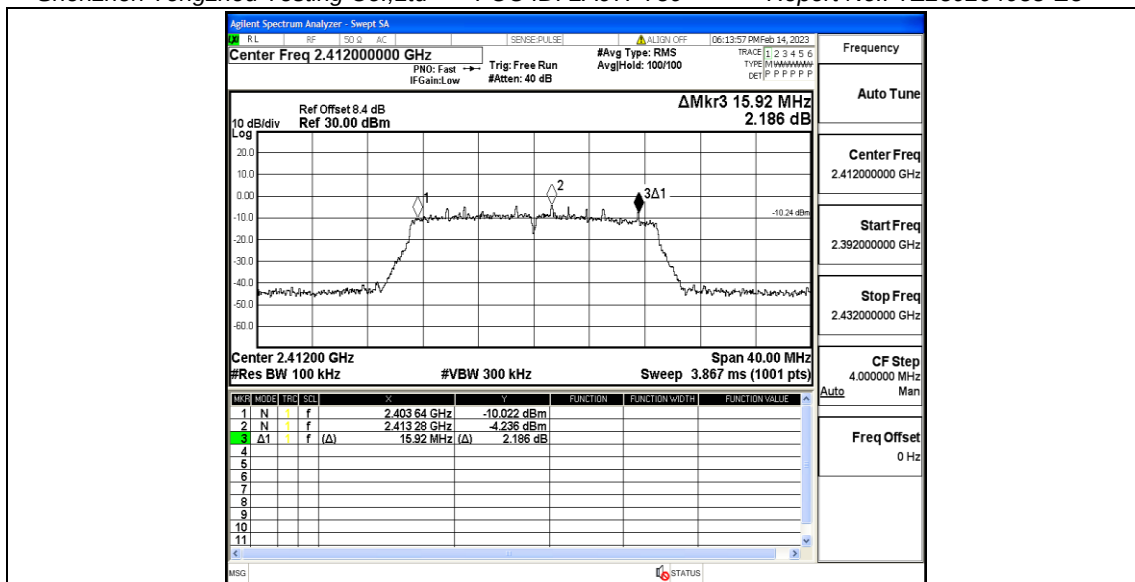
11G\_Ant1\_2437



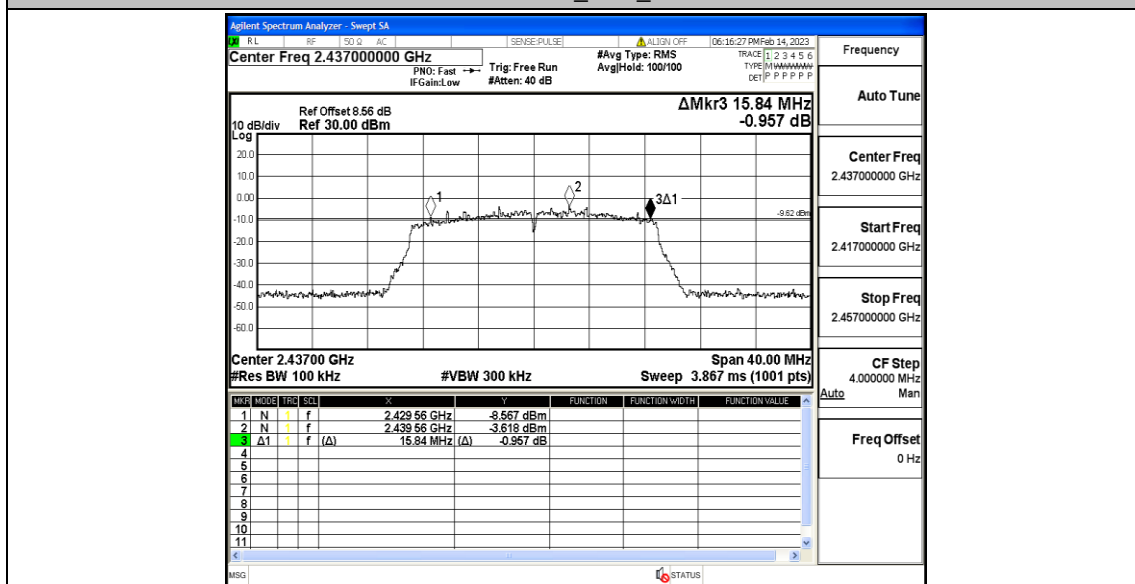
11G\_Ant1\_2462



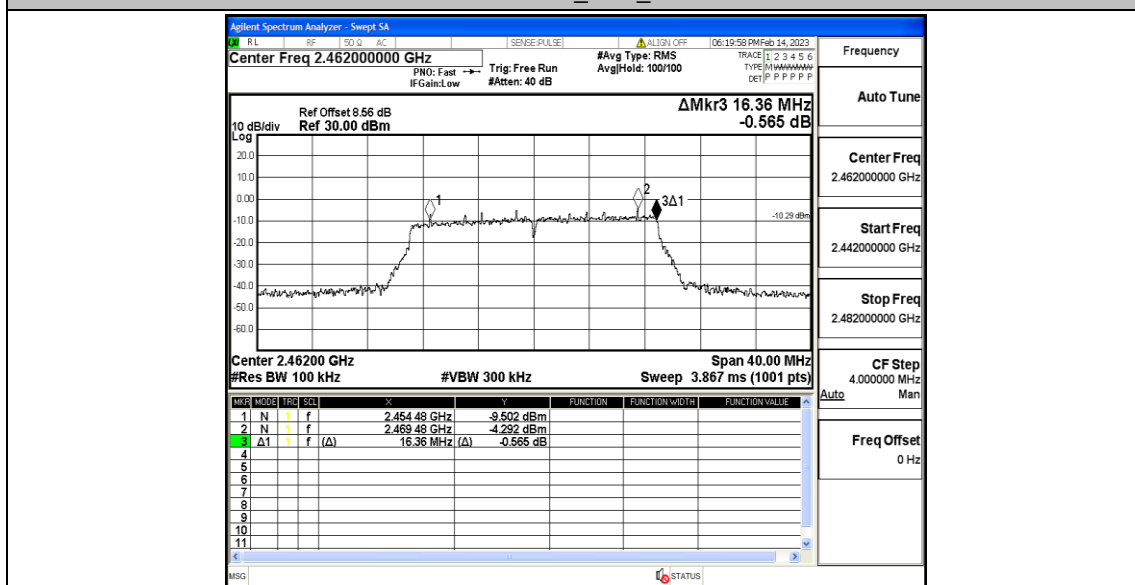
11N20SISO\_Ant1\_2412



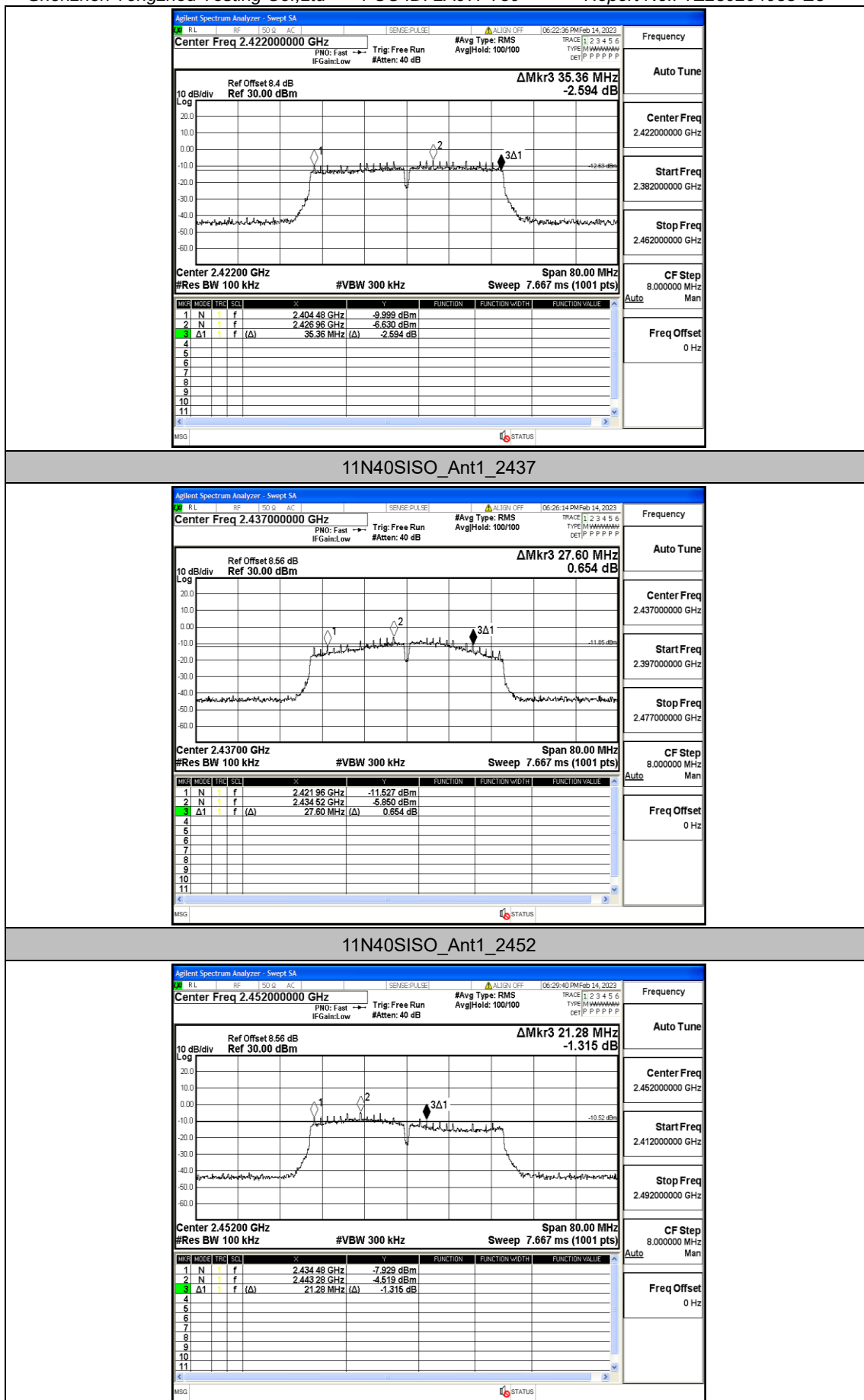
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



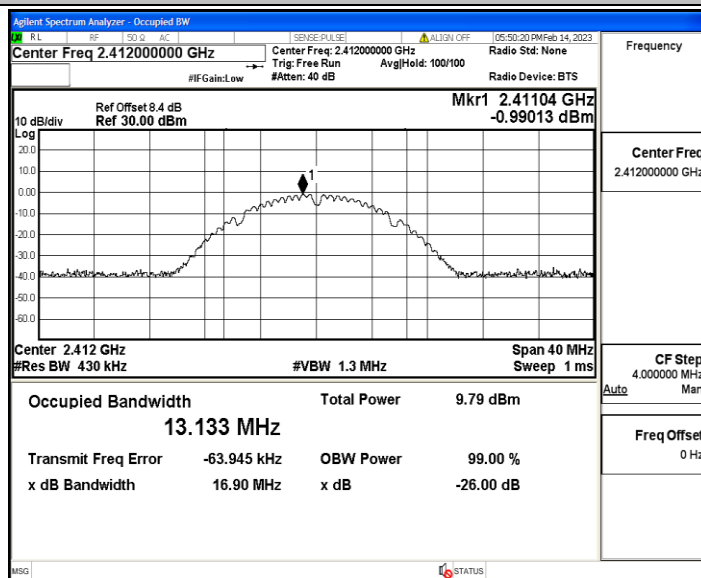
## Appendix B: Occupied Channel Bandwidth

### Test Result

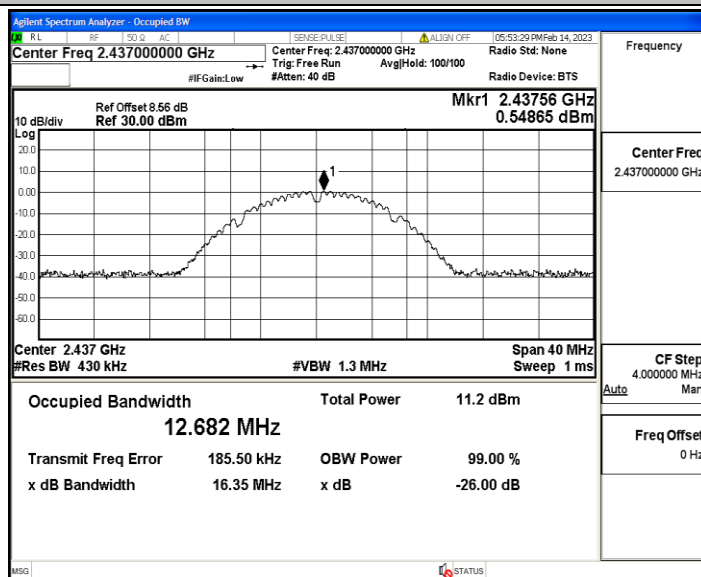
| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412    | 13.133    | 2405.3696 | 2418.5026 | ---        | ---     |
|           |         | 2437    | 12.682    | 2430.8445 | 2443.5265 | ---        | ---     |
|           |         | 2462    | 13.602    | 2455.4837 | 2469.0857 | ---        | ---     |
| 11G       | Ant1    | 2412    | 17.034    | 2403.3873 | 2420.4213 | ---        | ---     |
|           |         | 2437    | 16.599    | 2428.8111 | 2445.4101 | ---        | ---     |
|           |         | 2462    | 17.292    | 2453.5619 | 2470.8539 | ---        | ---     |
| 11N20SISO | Ant1    | 2412    | 17.895    | 2403.0362 | 2420.9312 | ---        | ---     |
|           |         | 2437    | 17.575    | 2428.3231 | 2445.8981 | ---        | ---     |
|           |         | 2462    | 18.171    | 2453.1202 | 2471.2912 | ---        | ---     |
| 11N40SISO | Ant1    | 2422    | 36.611    | 2403.9115 | 2440.5225 | ---        | ---     |
|           |         | 2437    | 35.275    | 2419.2982 | 2454.5732 | ---        | ---     |
|           |         | 2452    | 36.445    | 2433.8477 | 2470.2927 | ---        | ---     |

## Test Graphs

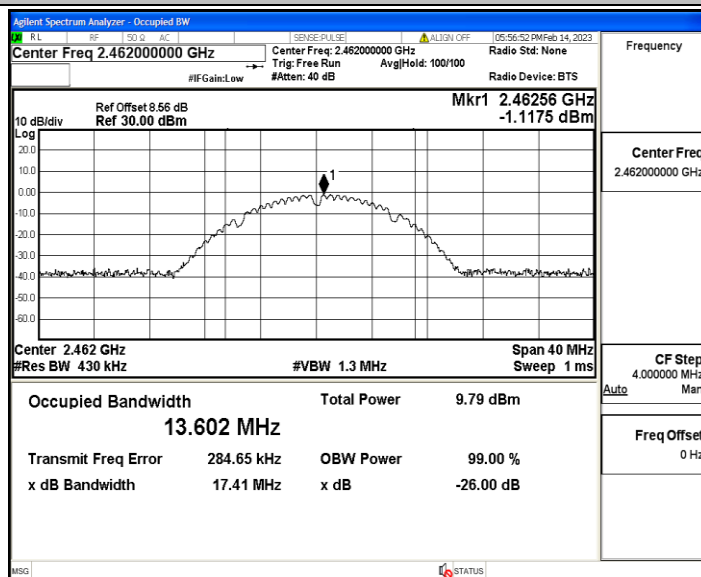
11B\_Ant1\_2412



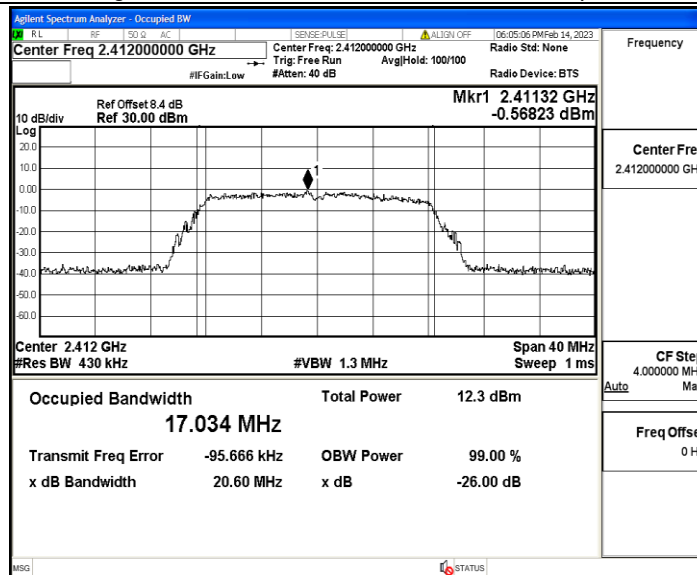
11B\_Ant1\_2437



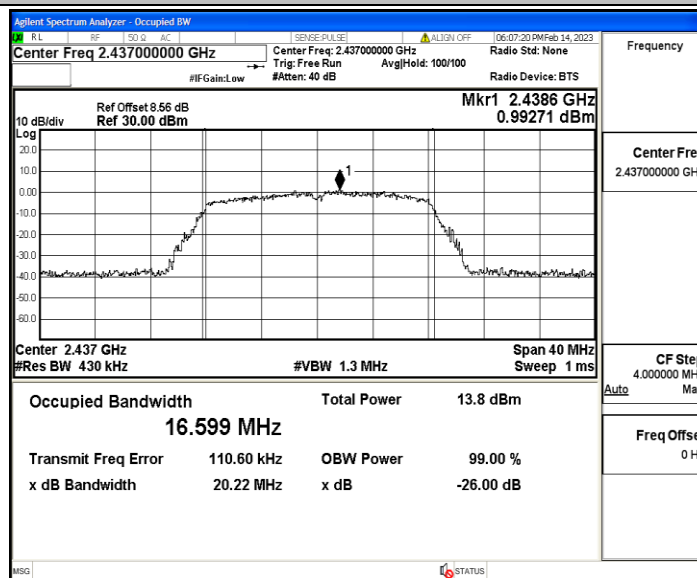
11B\_Ant1\_2462



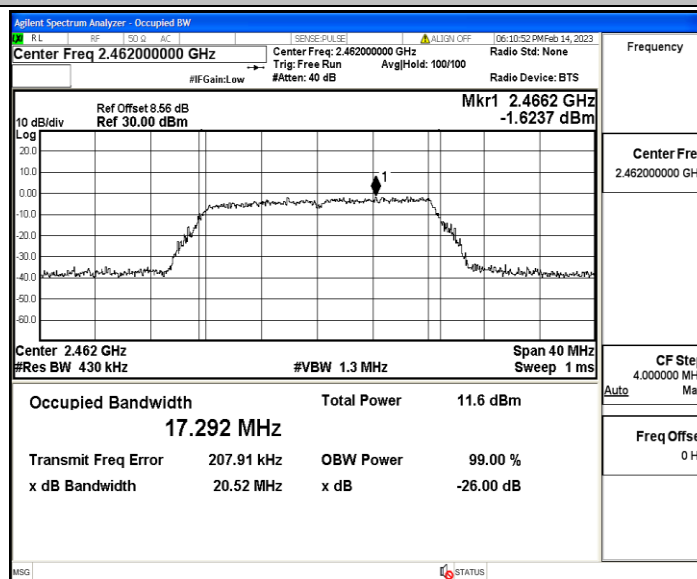
11G\_Ant1\_2412



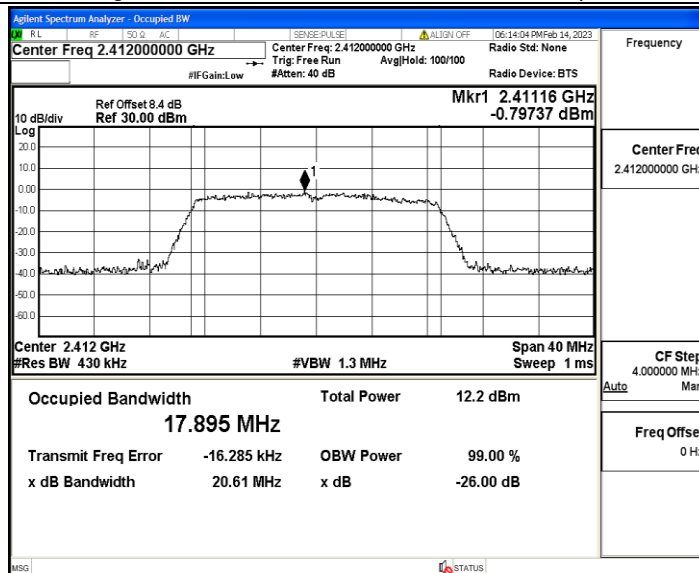
11G\_Ant1\_2437



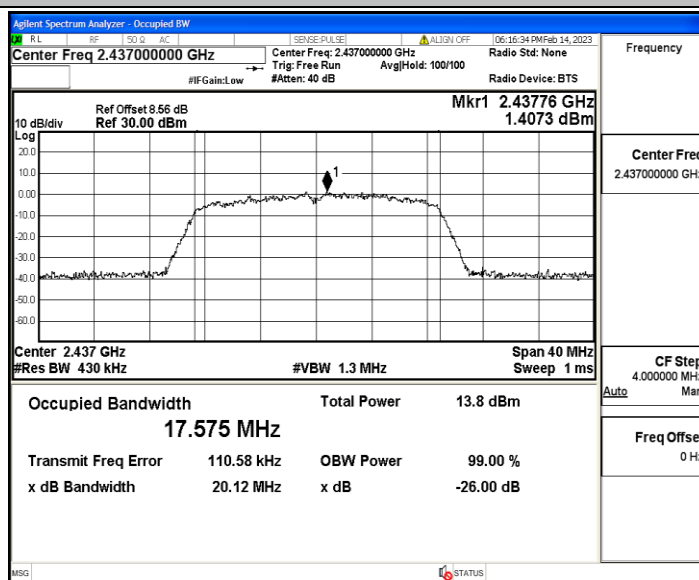
11G\_Ant1\_2462



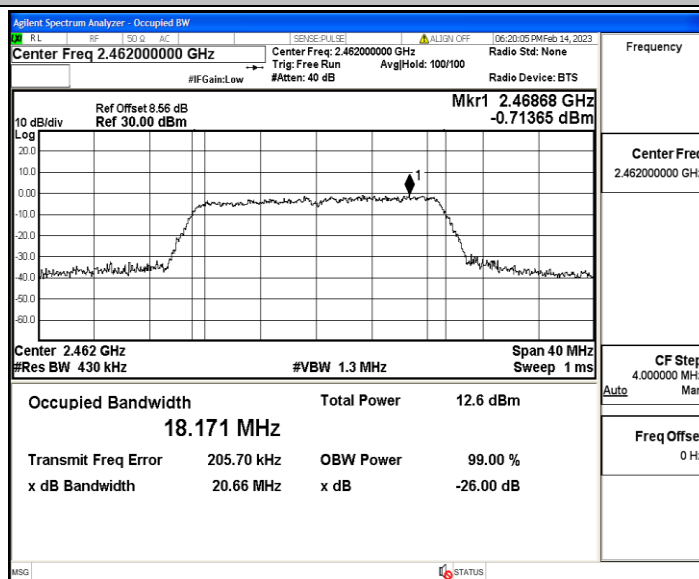
11N20SISO\_Ant1\_2412



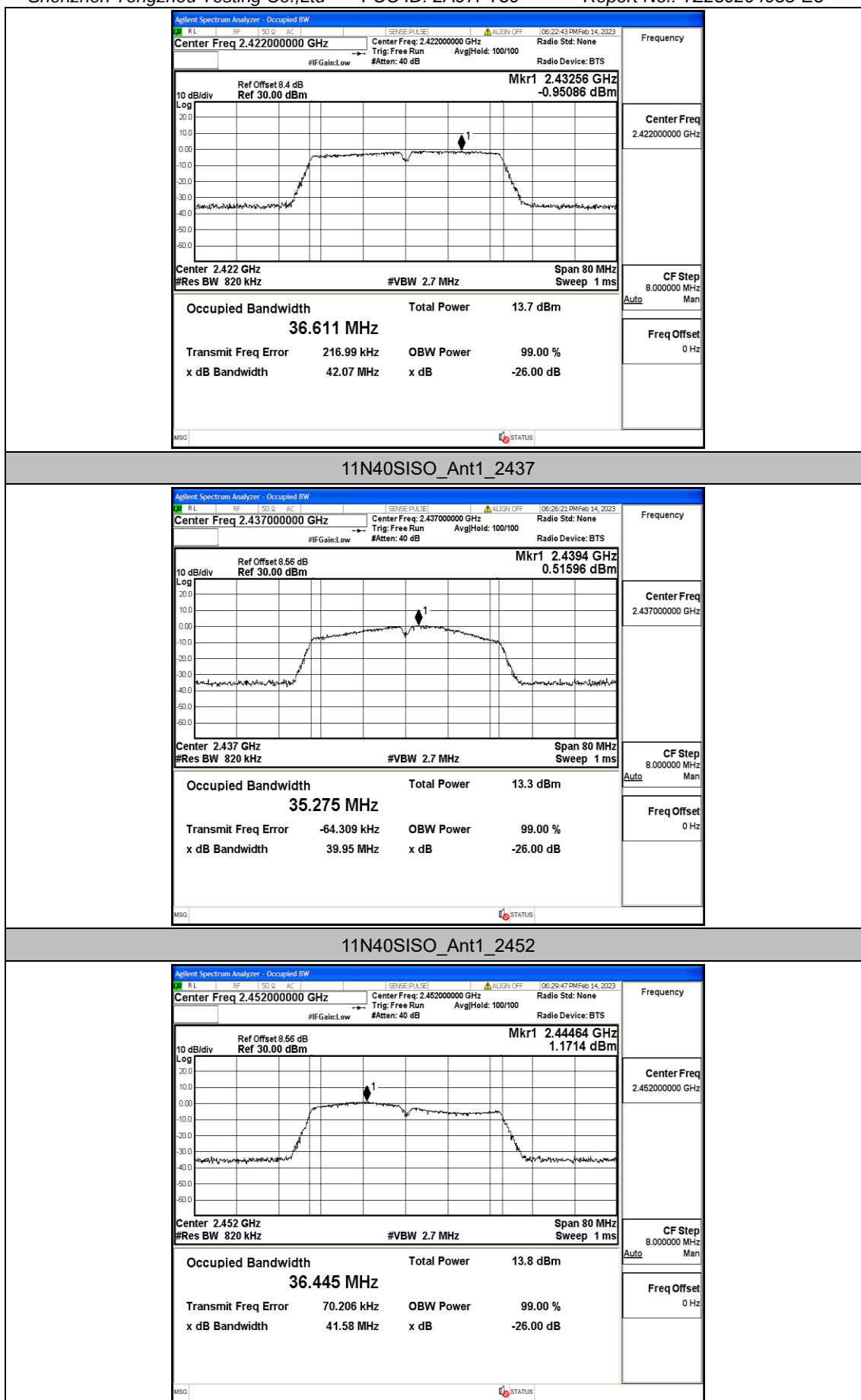
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



## Appendix C: Maximum conducted output power

### Test Result

| TestMode  | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 6.86        | ≤30.00     | PASS    |
|           |         | 2437    | 7.19        | ≤30.00     | PASS    |
|           |         | 2462    | 6.83        | ≤30.00     | PASS    |
| 11G       | Ant1    | 2412    | 6.26        | ≤30.00     | PASS    |
|           |         | 2437    | 6.82        | ≤30.00     | PASS    |
|           |         | 2462    | 6.52        | ≤30.00     | PASS    |
| 11N20SISO | Ant1    | 2412    | 6.13        | ≤30.00     | PASS    |
|           |         | 2437    | 6.68        | ≤30.00     | PASS    |
|           |         | 2462    | 6.50        | ≤30.00     | PASS    |
| 11N40SISO | Ant1    | 2422    | 6.90        | ≤30.00     | PASS    |
|           |         | 2437    | 6.57        | ≤30.00     | PASS    |
|           |         | 2452    | 6.09        | ≤30.00     | PASS    |

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

## Appendix D: Maximum power spectral density

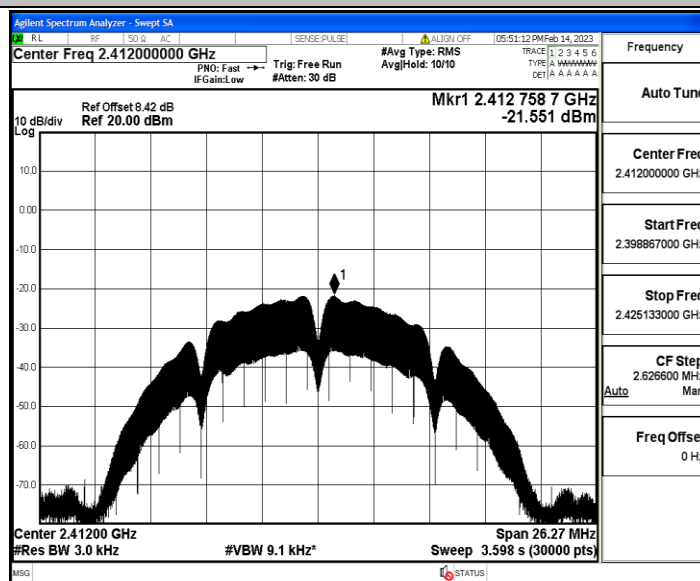
### Test Result

| TestMode  | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -21.55               | ≤8.00           | PASS    |
|           |         | 2437    | -21.17               | ≤8.00           | PASS    |
|           |         | 2462    | -21.71               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412    | -25.89               | ≤8.00           | PASS    |
|           |         | 2437    | -23.83               | ≤8.00           | PASS    |
|           |         | 2462    | -24.88               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412    | -24.66               | ≤8.00           | PASS    |
|           |         | 2437    | -24.17               | ≤8.00           | PASS    |
|           |         | 2462    | -24.98               | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422    | -26.71               | ≤8.00           | PASS    |
|           |         | 2437    | -25.85               | ≤8.00           | PASS    |
|           |         | 2452    | -26.01               | ≤8.00           | PASS    |

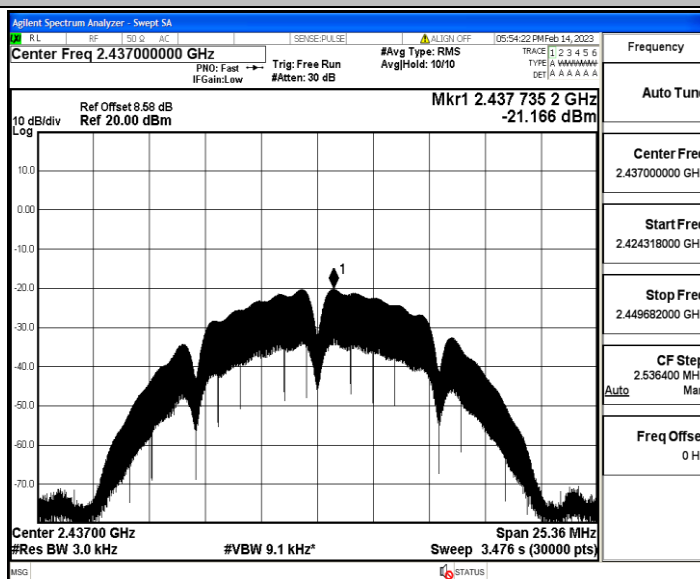
Note: The Duty Cycle Factor is compensated in the test result.

## Test Graphs

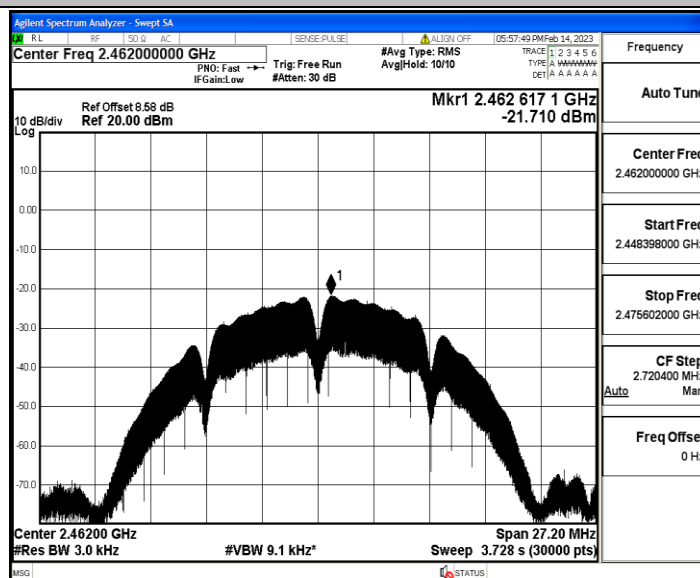
11B\_Ant1\_2412



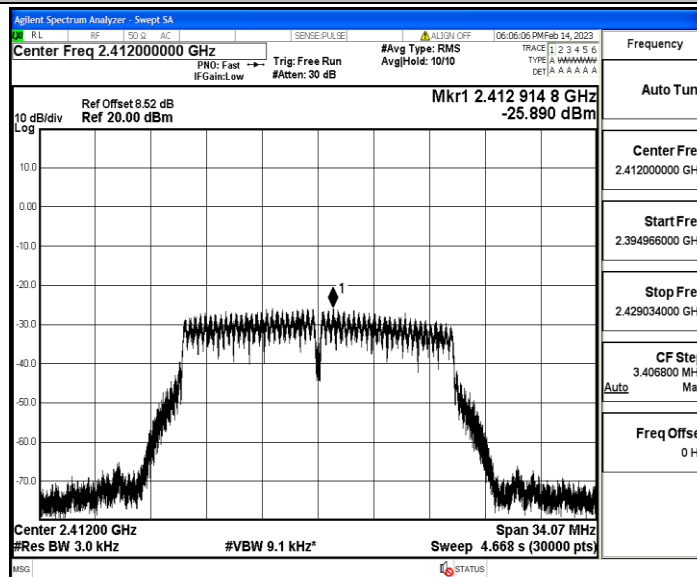
11B\_Ant1\_2437



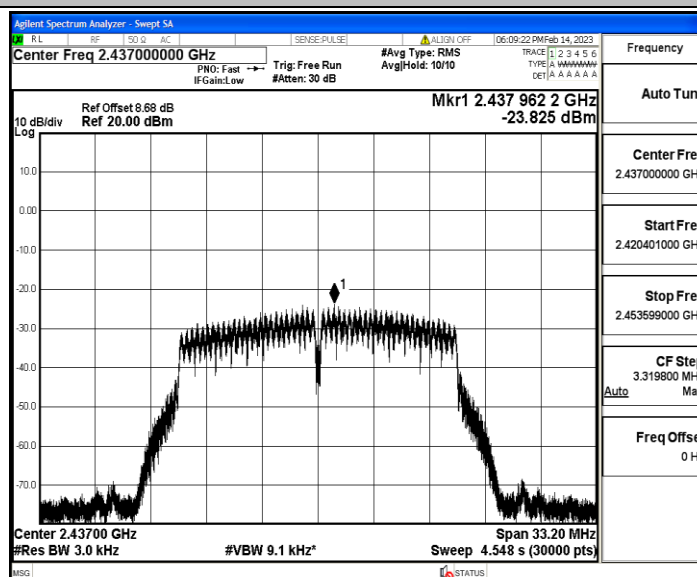
11B\_Ant1\_2462



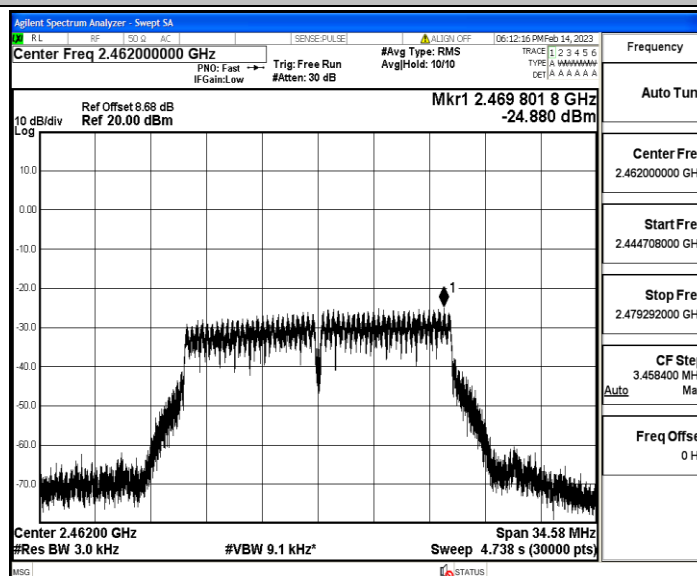
## 11G\_Ant1\_2412



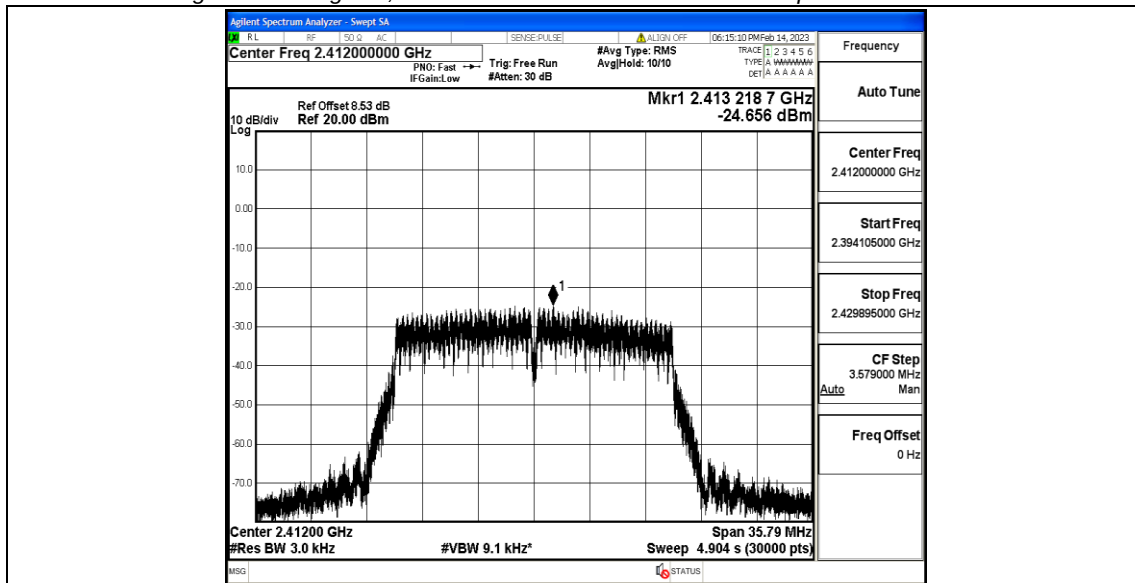
## 11G\_Ant1\_2437



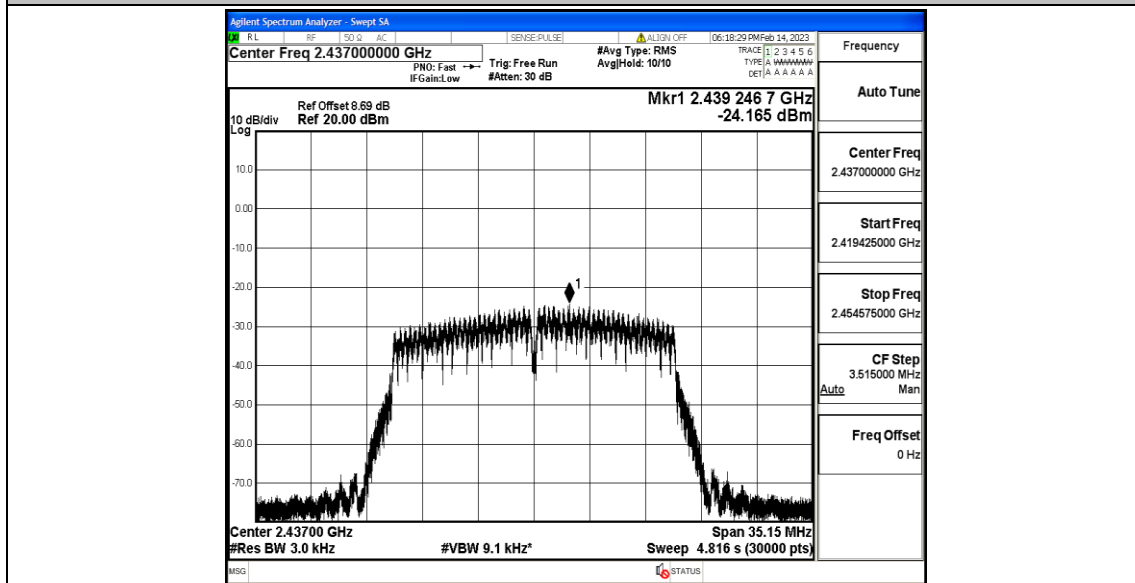
## 11G\_Ant1\_2462



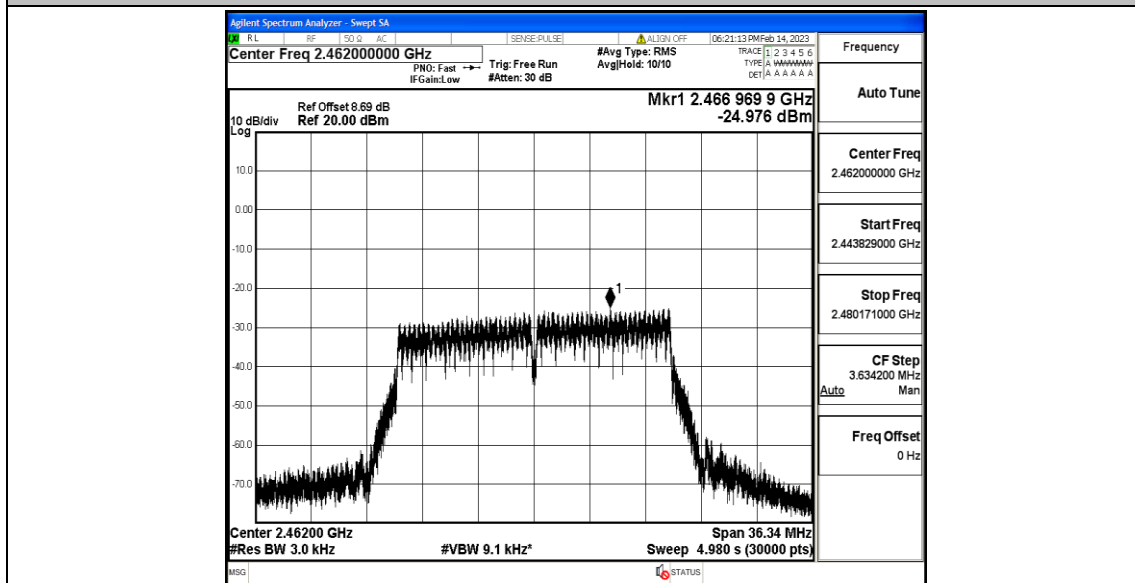
## 11N20SISO\_Ant1\_2412



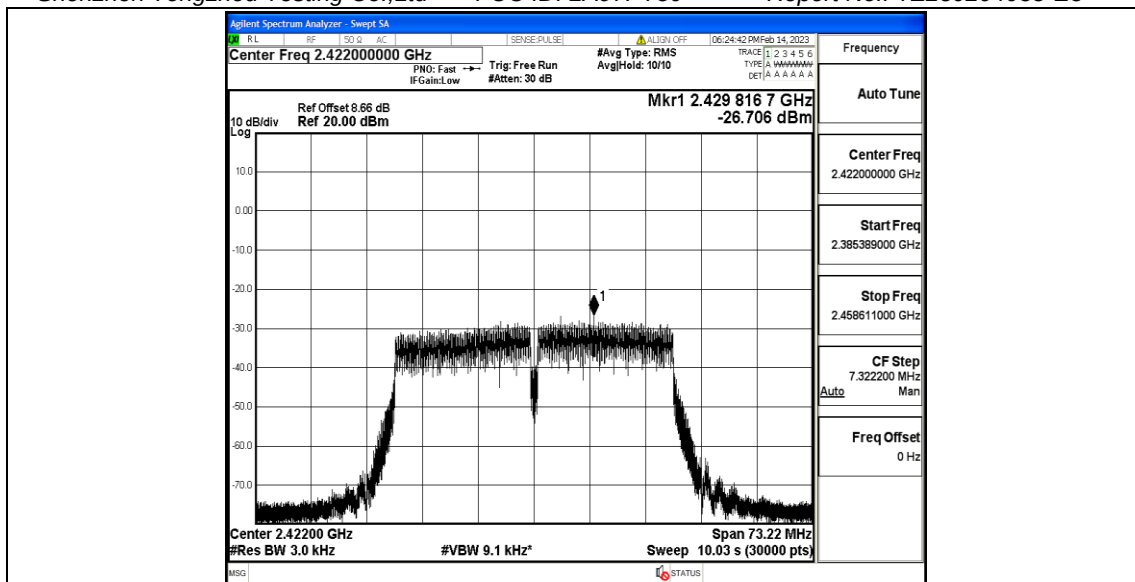
11N20SISO\_Ant1\_2437



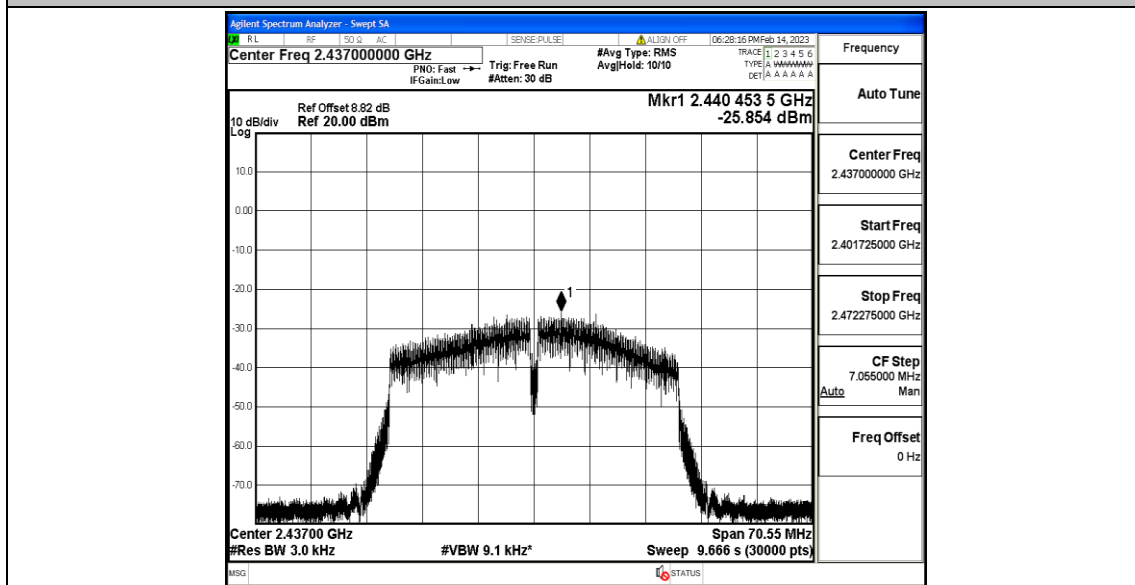
11N20SISO\_Ant1\_2462



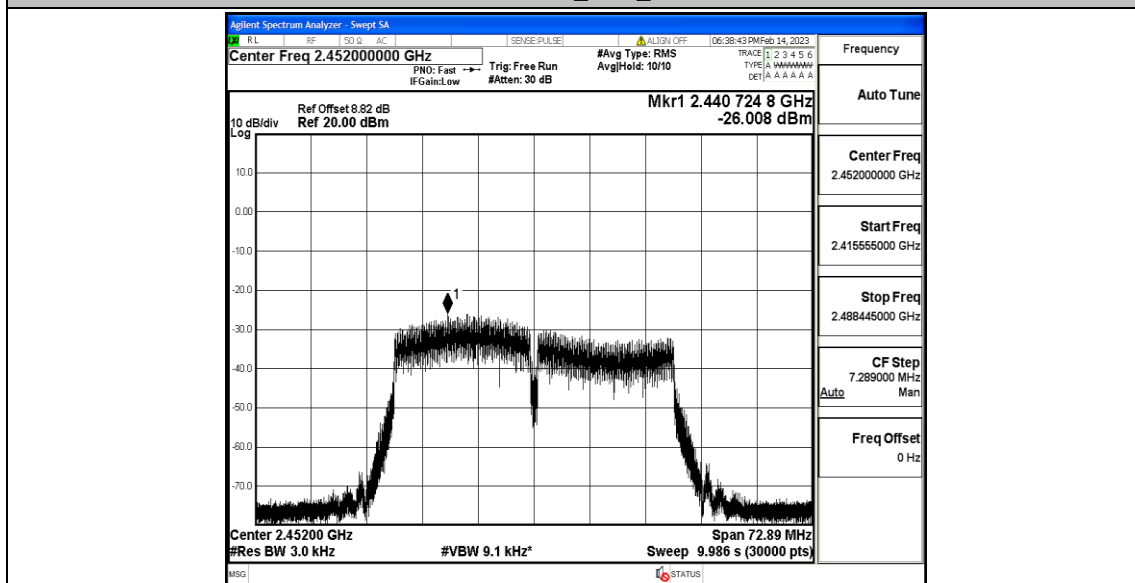
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



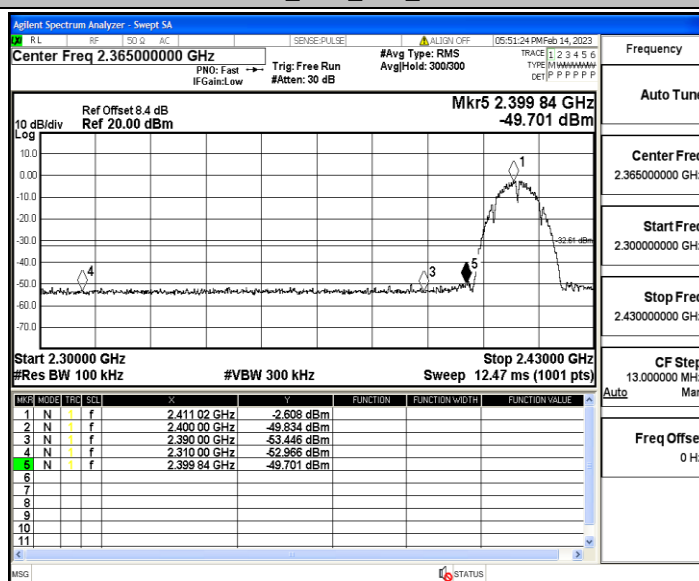
## Appendix E: Band edge measurements

### Test Result

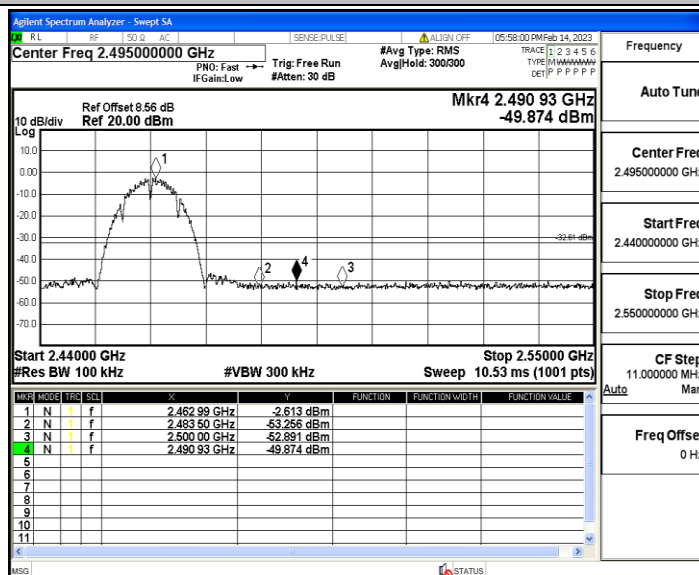
| TestMode  | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|---------|---------------|-------------|---------------|---------|
| 11B       | Ant1    | Low    | 2412    | -2.61         | -49.7       | $\leq -32.61$ | PASS    |
|           |         | High   | 2462    | -2.61         | -49.87      | $\leq -32.61$ | PASS    |
| 11G       | Ant1    | Low    | 2412    | -3.88         | -44.52      | $\leq -33.88$ | PASS    |
|           |         | High   | 2462    | -4.04         | -49.52      | $\leq -34.04$ | PASS    |
| 11N20SISO | Ant1    | Low    | 2412    | -4.31         | -44.6       | $\leq -34.31$ | PASS    |
|           |         | High   | 2462    | -3.65         | -49.89      | $\leq -33.65$ | PASS    |
| 11N40SISO | Ant1    | Low    | 2422    | -6.58         | -44.03      | $\leq -36.58$ | PASS    |
|           |         | High   | 2452    | -5.22         | -49.54      | $\leq -35.22$ | PASS    |

## Test Graphs

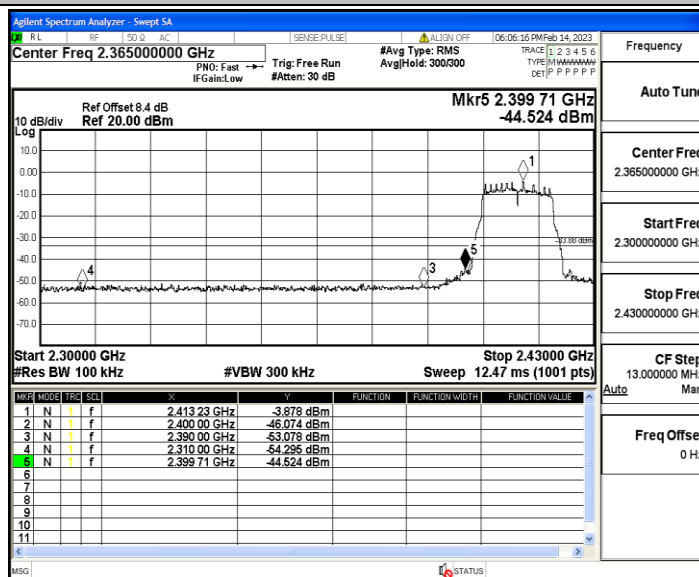
11B\_Ant1\_Low\_2412



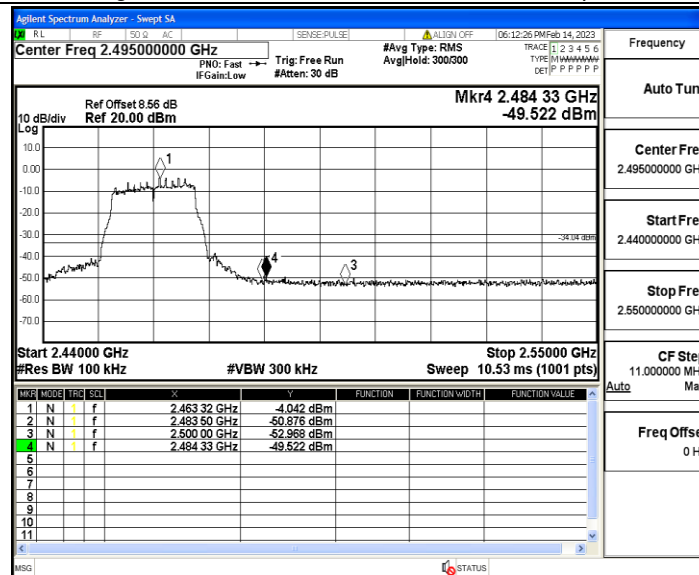
11B\_Ant1\_High\_2462



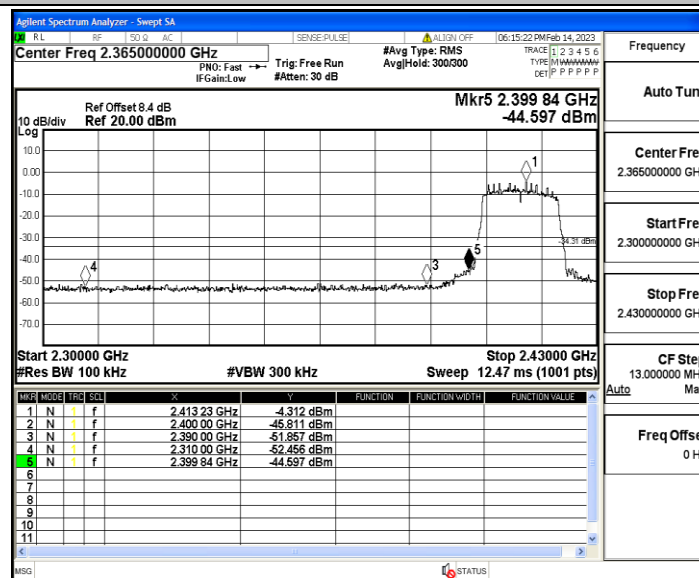
11G\_Ant1\_Low\_2412



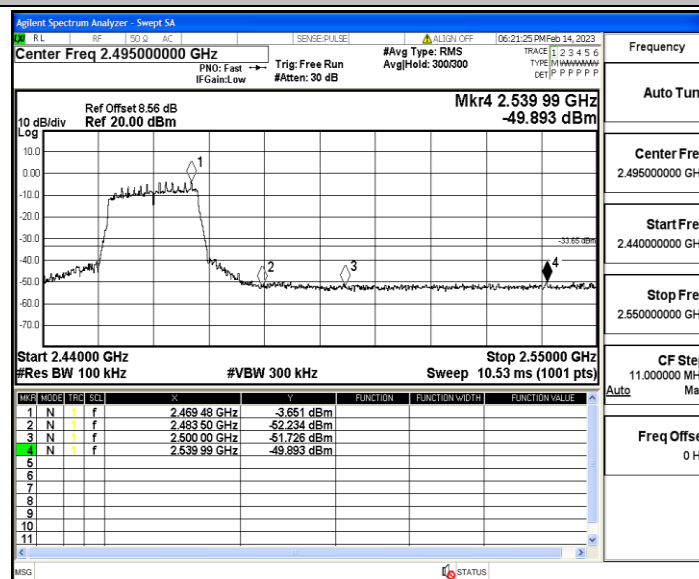
11G\_Ant1\_High\_2462



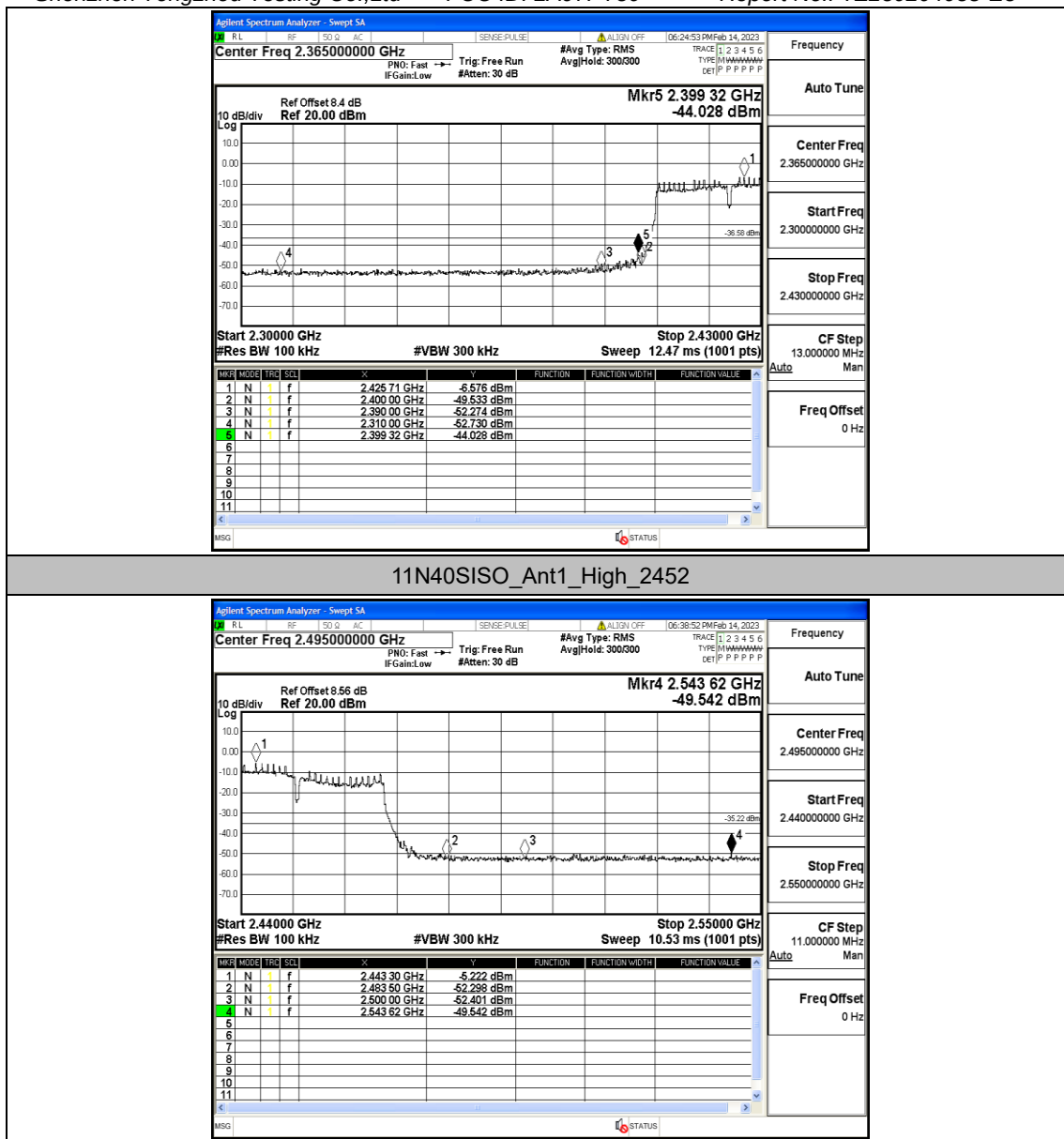
11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_High\_2462



11N40SISO\_Ant1\_Low\_2422



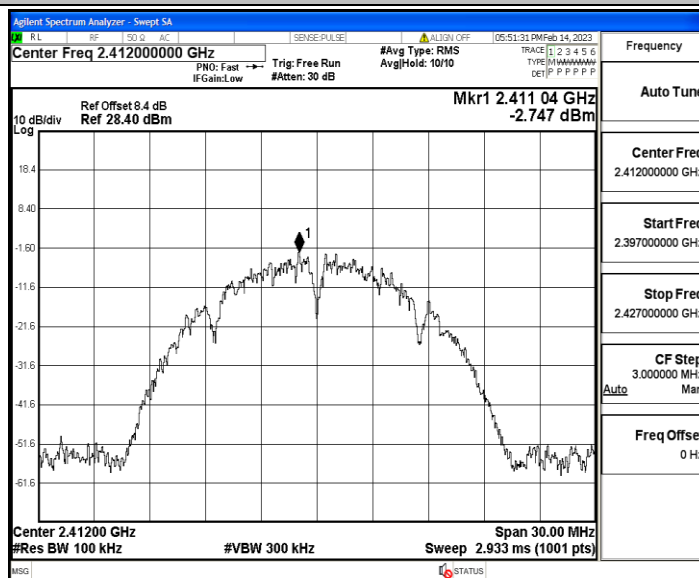
## Appendix F: Conducted Spurious Emission

### Test Result

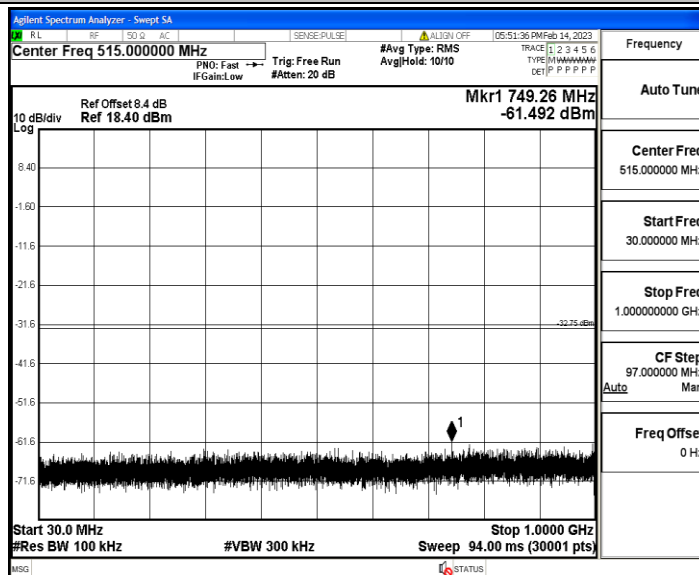
| TestMode  | Antenna | Channel | FreqRange<br>[Mhz] | RefLevel<br>[dBm] | Result<br>[dBm] | Limit<br>[dBm] | Verdict |
|-----------|---------|---------|--------------------|-------------------|-----------------|----------------|---------|
| 11B       | Ant1    | 2412    | Reference          | -2.75             | -2.75           | ---            | PASS    |
|           |         |         | 30~1000            | -2.75             | -61.49          | ≤-32.75        | PASS    |
|           |         |         | 1000~26500         | -2.75             | -52.84          | ≤-32.75        | PASS    |
|           |         | 2437    | Reference          | -1.22             | -1.22           | ---            | PASS    |
|           |         |         | 30~1000            | -1.22             | -62.12          | ≤-31.22        | PASS    |
|           |         |         | 1000~26500         | -1.22             | -51.96          | ≤-31.22        | PASS    |
|           |         | 2462    | Reference          | -3.38             | -3.38           | ---            | PASS    |
|           |         |         | 30~1000            | -3.38             | -61.86          | ≤-33.38        | PASS    |
|           |         |         | 1000~26500         | -3.38             | -52.66          | ≤-33.38        | PASS    |
| 11G       | Ant1    | 2412    | Reference          | -8.08             | -8.08           | ---            | PASS    |
|           |         |         | 30~1000            | -8.08             | -61.9           | ≤-38.08        | PASS    |
|           |         |         | 1000~26500         | -8.08             | -52.86          | ≤-38.08        | PASS    |
|           |         | 2437    | Reference          | -6.06             | -6.06           | ---            | PASS    |
|           |         |         | 30~1000            | -6.06             | -62.04          | ≤-36.06        | PASS    |
|           |         |         | 1000~26500         | -6.06             | -52.54          | ≤-36.06        | PASS    |
|           |         | 2462    | Reference          | -5.32             | -5.32           | ---            | PASS    |
|           |         |         | 30~1000            | -5.32             | -61.84          | ≤-35.32        | PASS    |
|           |         |         | 1000~26500         | -5.32             | -50.05          | ≤-35.32        | PASS    |
| 11N20SISO | Ant1    | 2412    | Reference          | -7.95             | -7.95           | ---            | PASS    |
|           |         |         | 30~1000            | -7.95             | -62.64          | ≤-37.95        | PASS    |
|           |         |         | 1000~26500         | -7.95             | -52.56          | ≤-37.95        | PASS    |
|           |         | 2437    | Reference          | -7.22             | -7.22           | ---            | PASS    |
|           |         |         | 30~1000            | -7.22             | -61.93          | ≤-37.22        | PASS    |
|           |         |         | 1000~26500         | -7.22             | -50.46          | ≤-37.22        | PASS    |
|           |         | 2462    | Reference          | -7.74             | -7.74           | ---            | PASS    |
|           |         |         | 30~1000            | -7.74             | -61.42          | ≤-37.74        | PASS    |
|           |         |         | 1000~26500         | -7.74             | -51.68          | ≤-37.74        | PASS    |
| 11N40SISO | Ant1    | 2422    | Reference          | -6.80             | -6.80           | ---            | PASS    |
|           |         |         | 30~1000            | -6.80             | -61.48          | ≤-36.8         | PASS    |
|           |         |         | 1000~26500         | -6.80             | -51.48          | ≤-36.8         | PASS    |
|           |         | 2437    | Reference          | -6.60             | -6.60           | ---            | PASS    |
|           |         |         | 30~1000            | -6.60             | -61.69          | ≤-36.6         | PASS    |
|           |         |         | 1000~26500         | -6.60             | -51.55          | ≤-36.6         | PASS    |
|           |         | 2452    | Reference          | -8.54             | -8.54           | ---            | PASS    |
|           |         |         | 30~1000            | -8.54             | -61.31          | ≤-38.54        | PASS    |
|           |         |         | 1000~26500         | -8.54             | -51.71          | ≤-38.54        | PASS    |

## Test Graphs

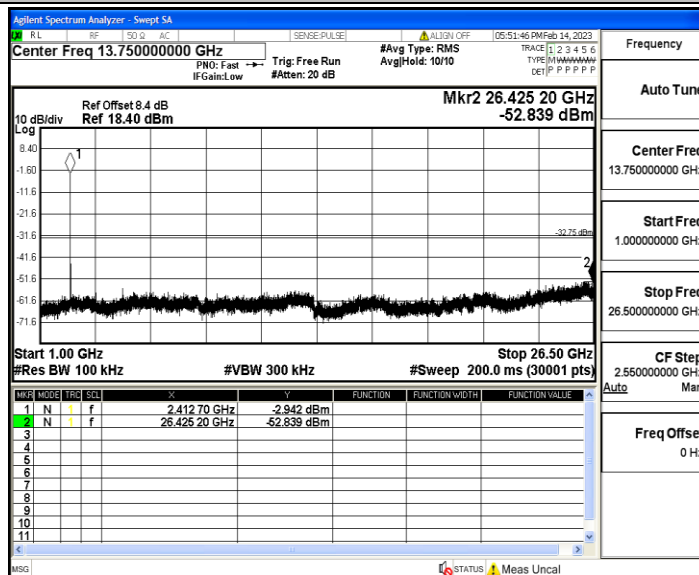
11B\_Ant1\_2412\_0~Reference



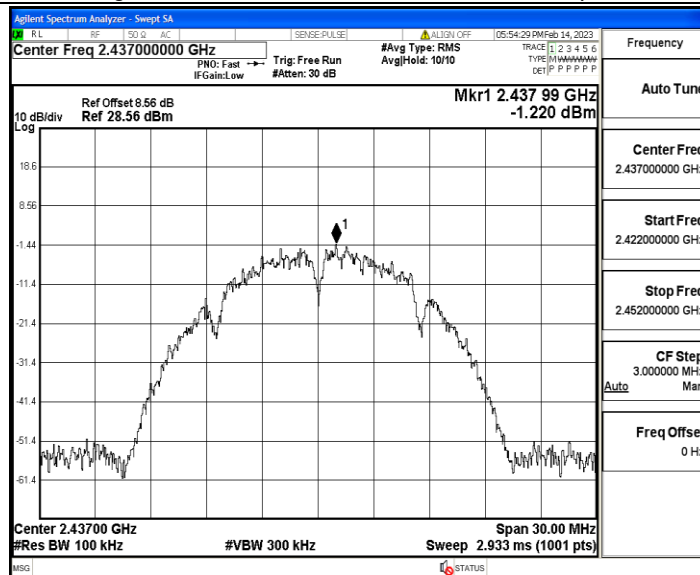
11B\_Ant1\_2412\_30~1000



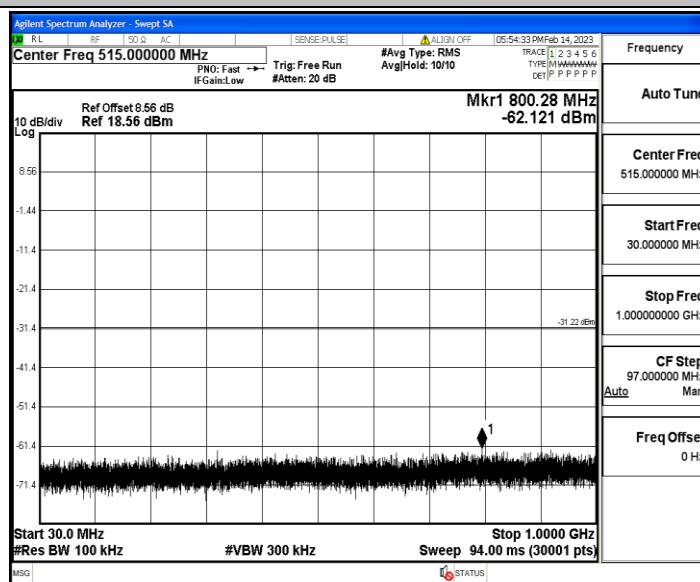
11B\_Ant1\_2412\_1000~26500



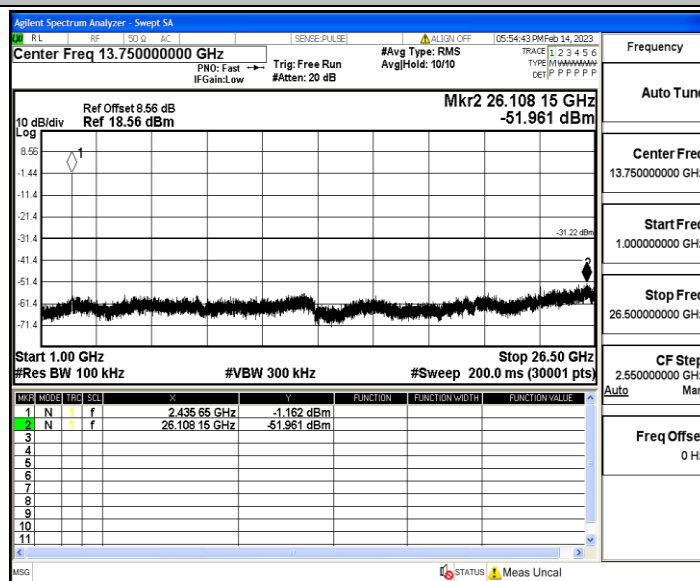
11B\_Ant1\_2437\_0~Reference



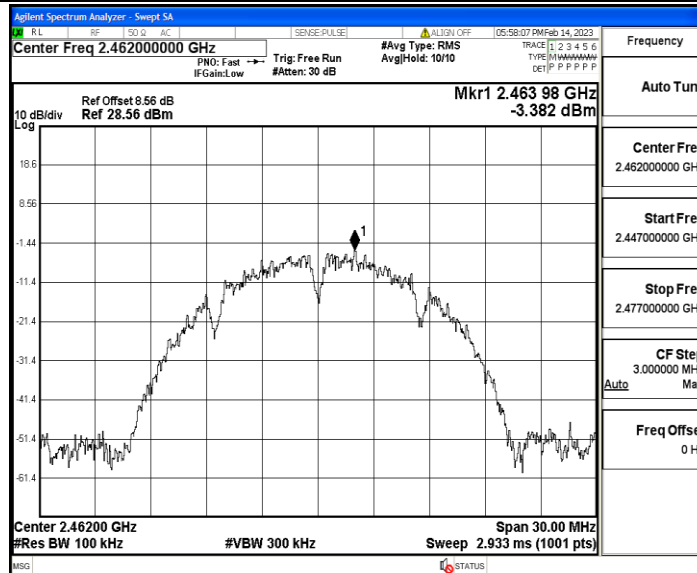
11B\_Ant1\_2437\_30~1000



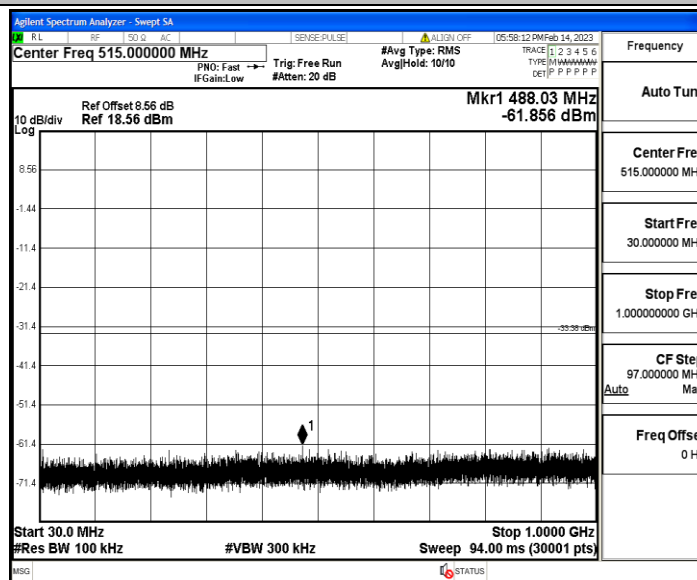
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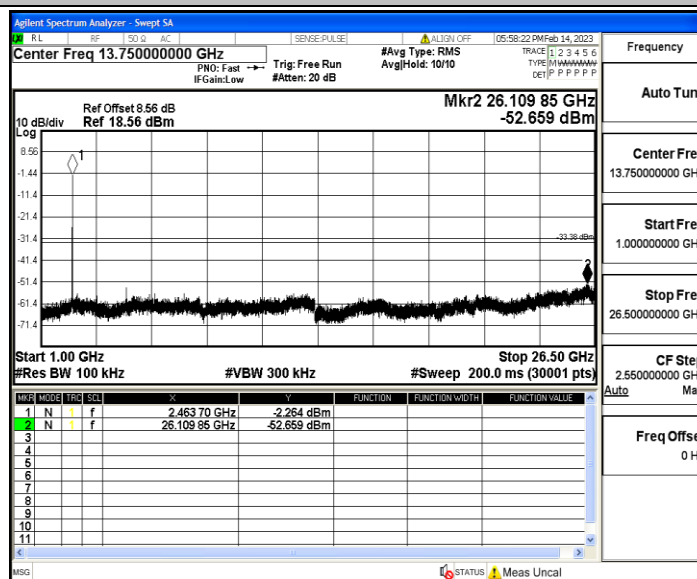
11B\_Ant1\_2462\_0~Reference



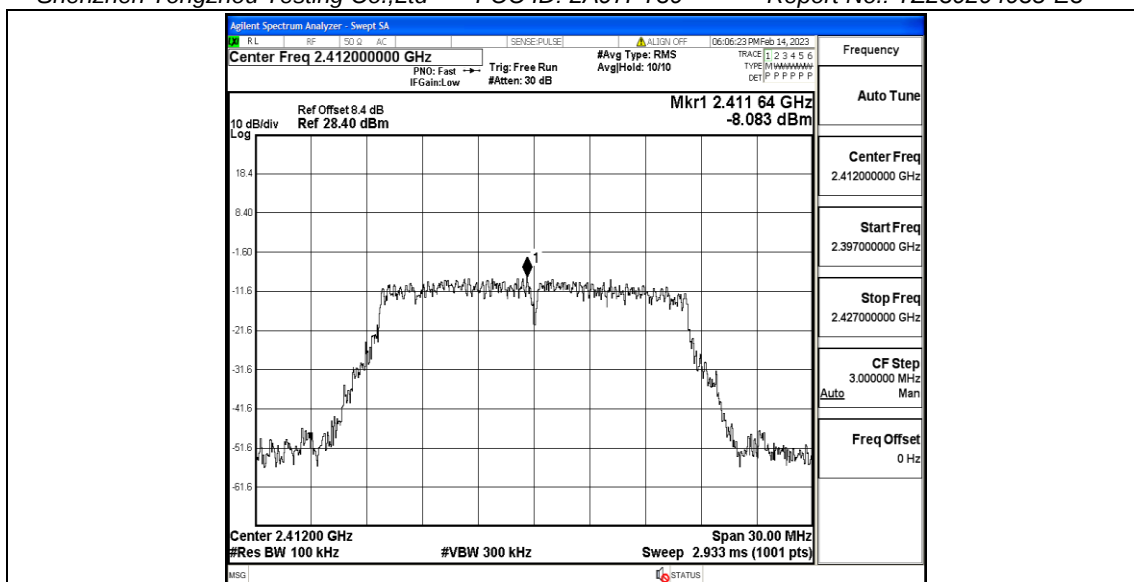
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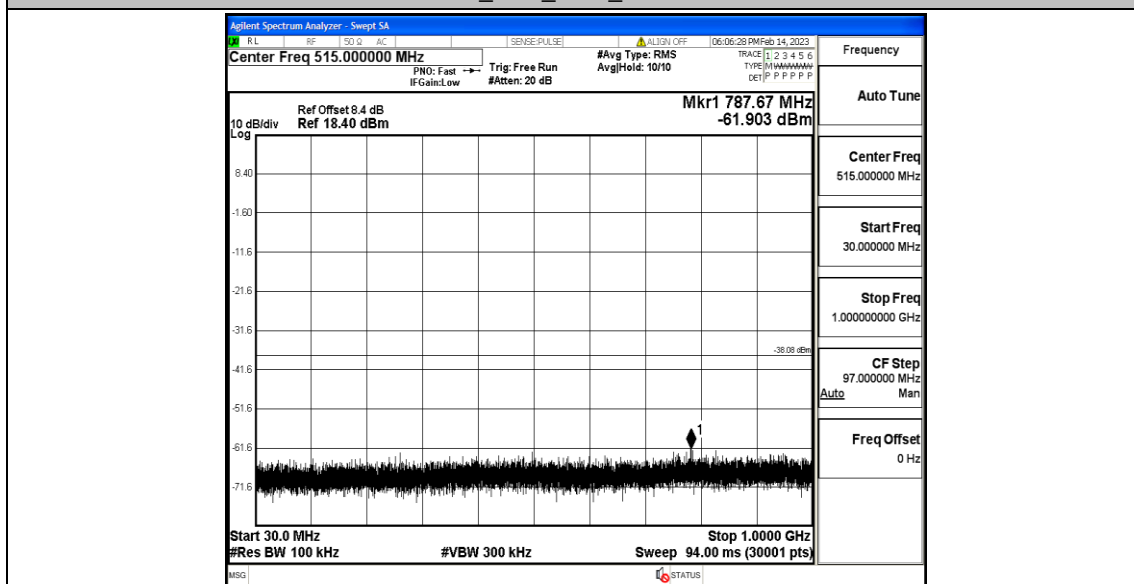
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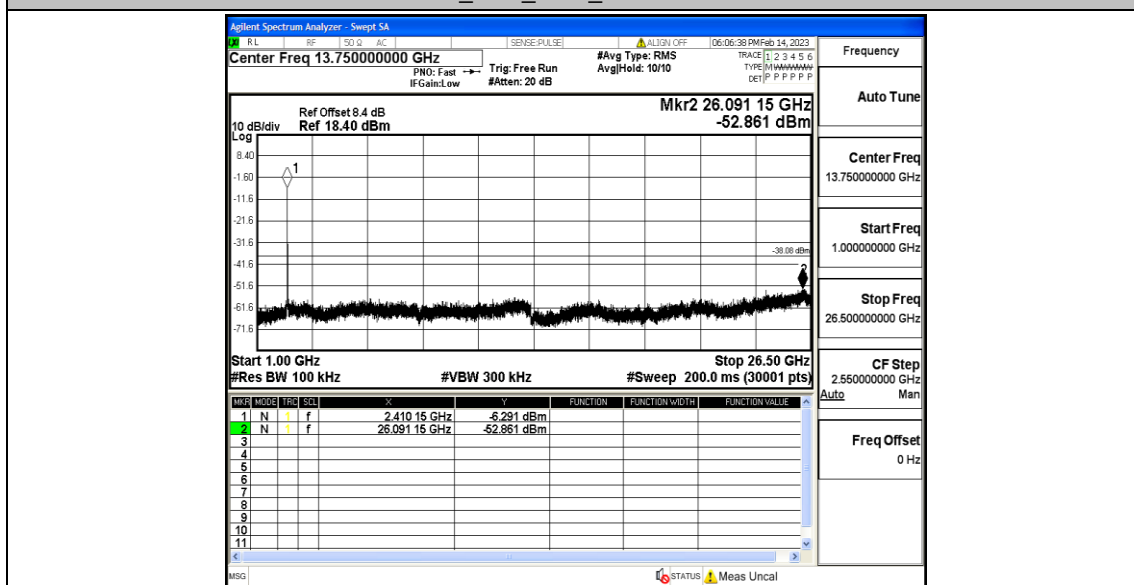
11G\_Ant1\_2412\_0~Reference



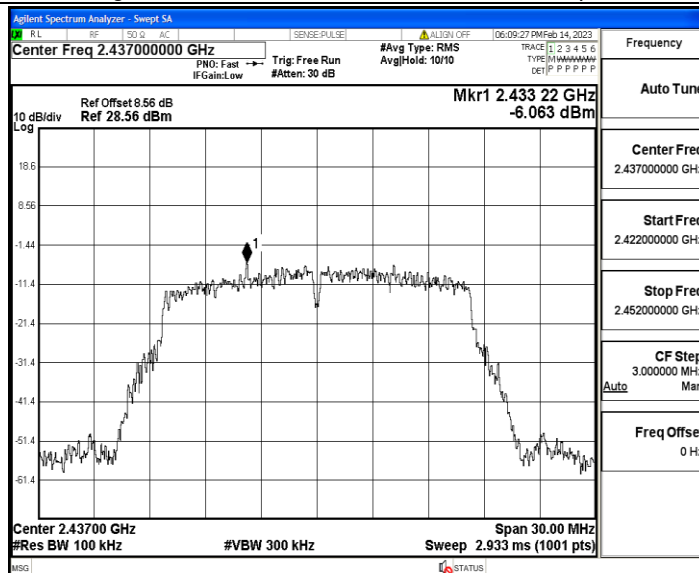
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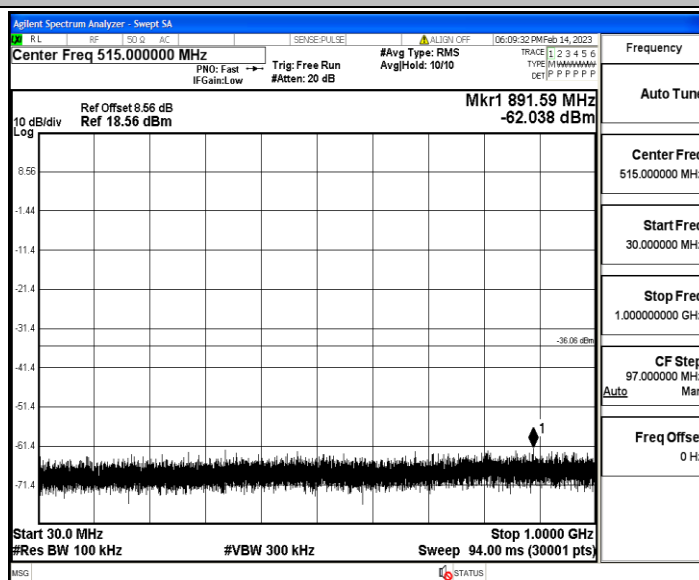
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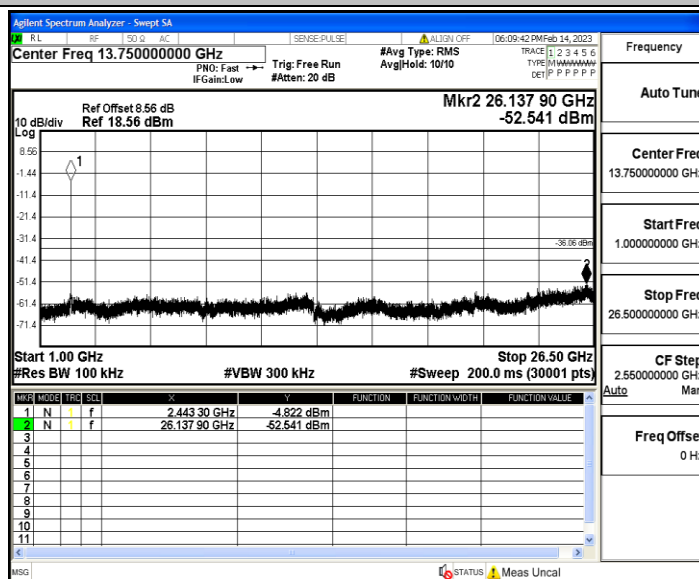
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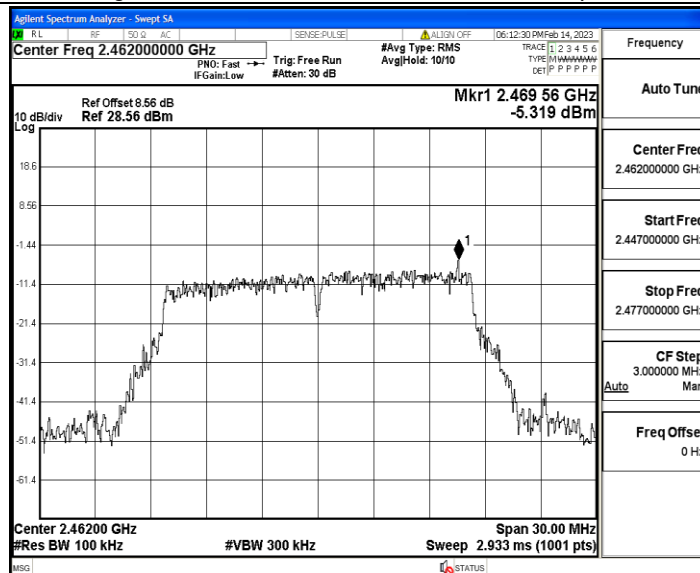
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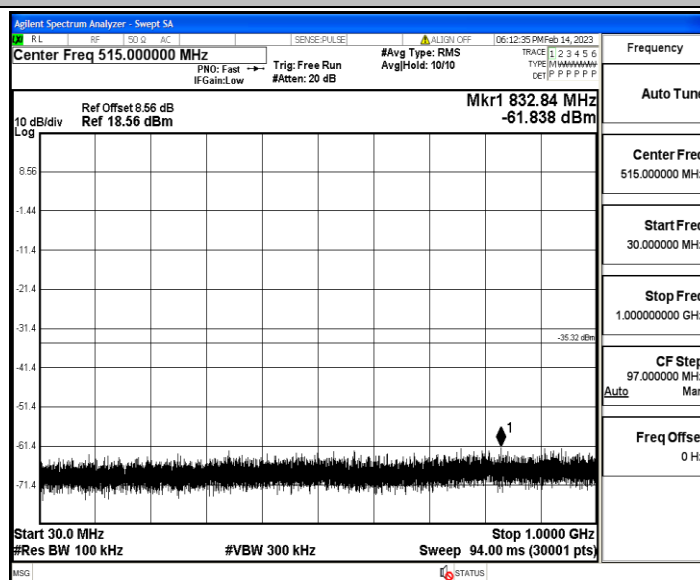
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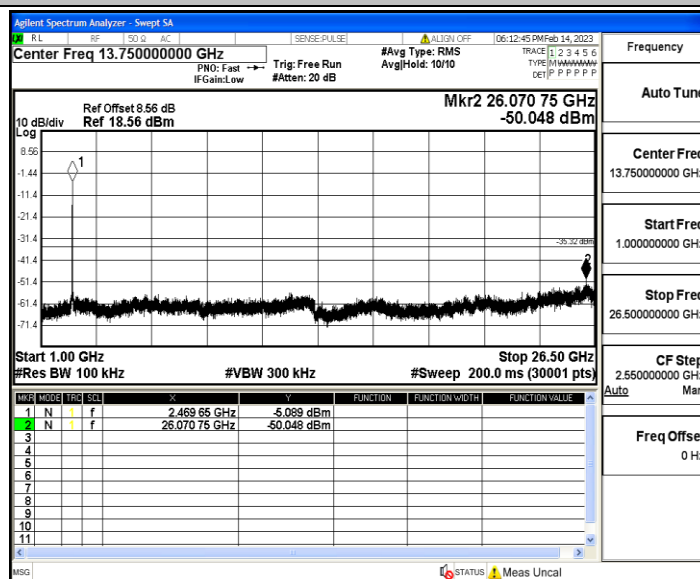
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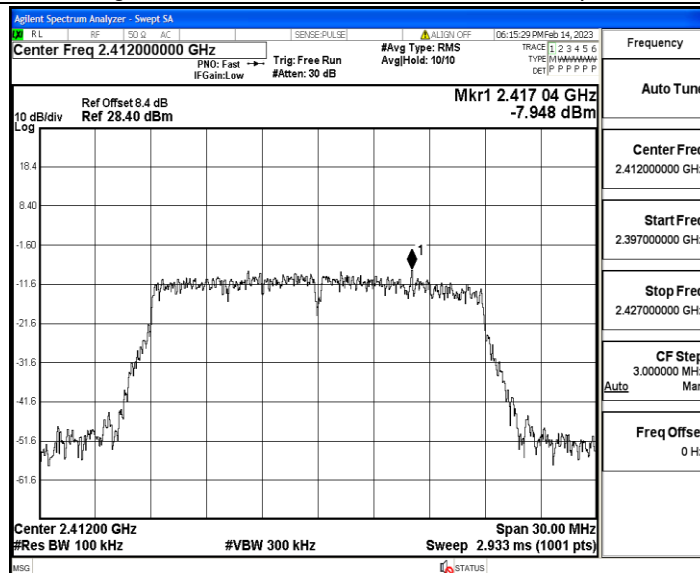
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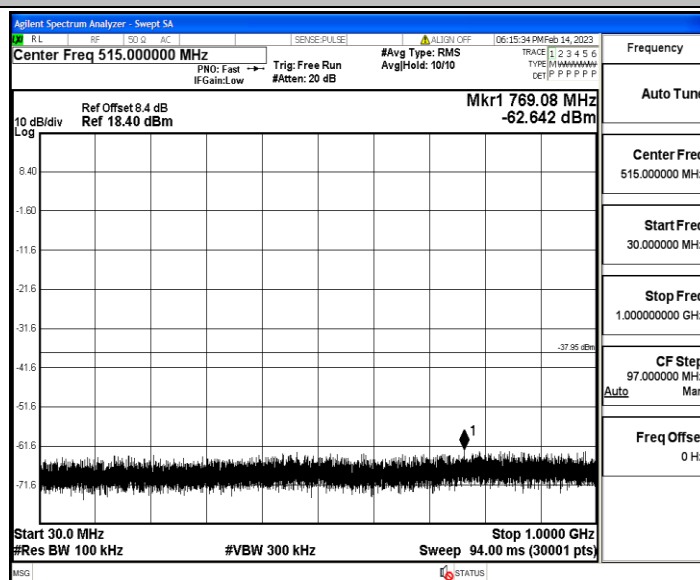
11G\_Ant1\_2462\_1000~26500



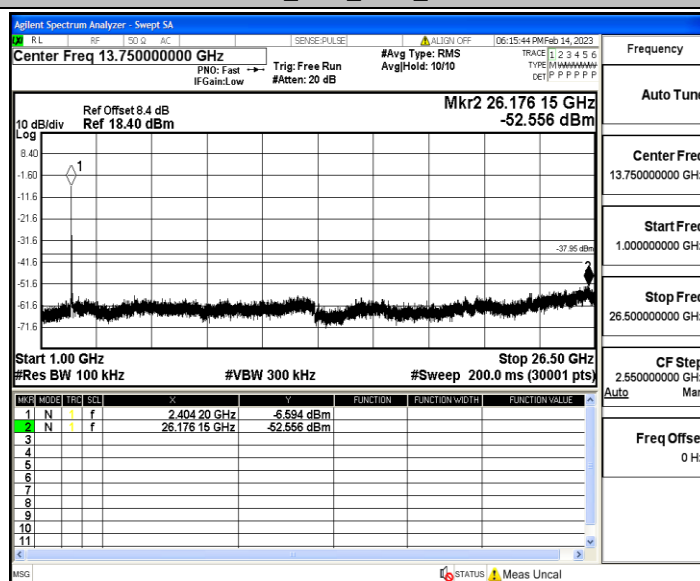
11N20SISO\_Ant1\_2412\_0~Reference



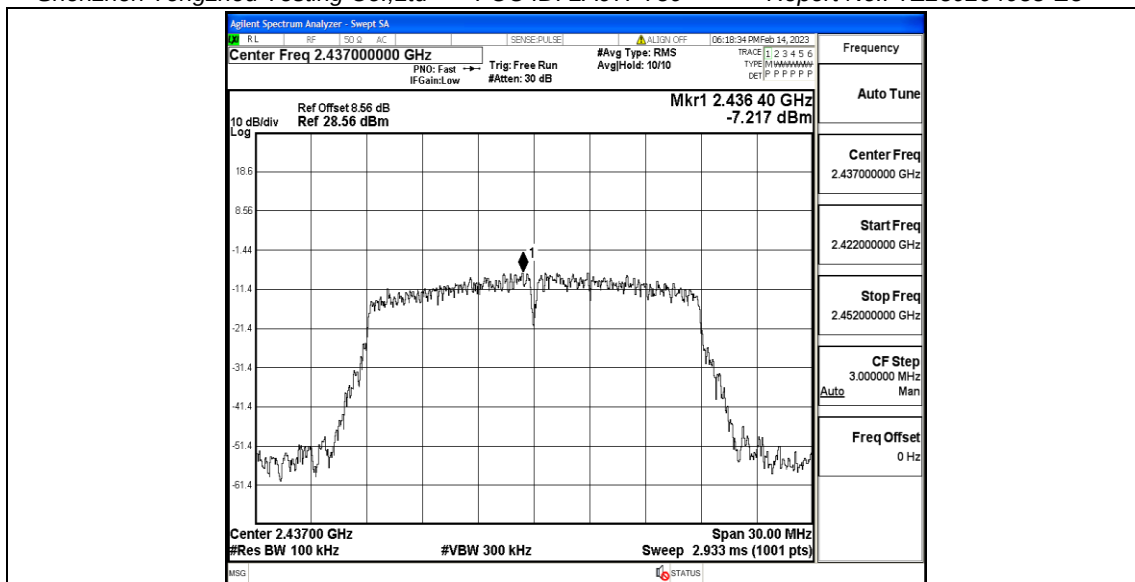
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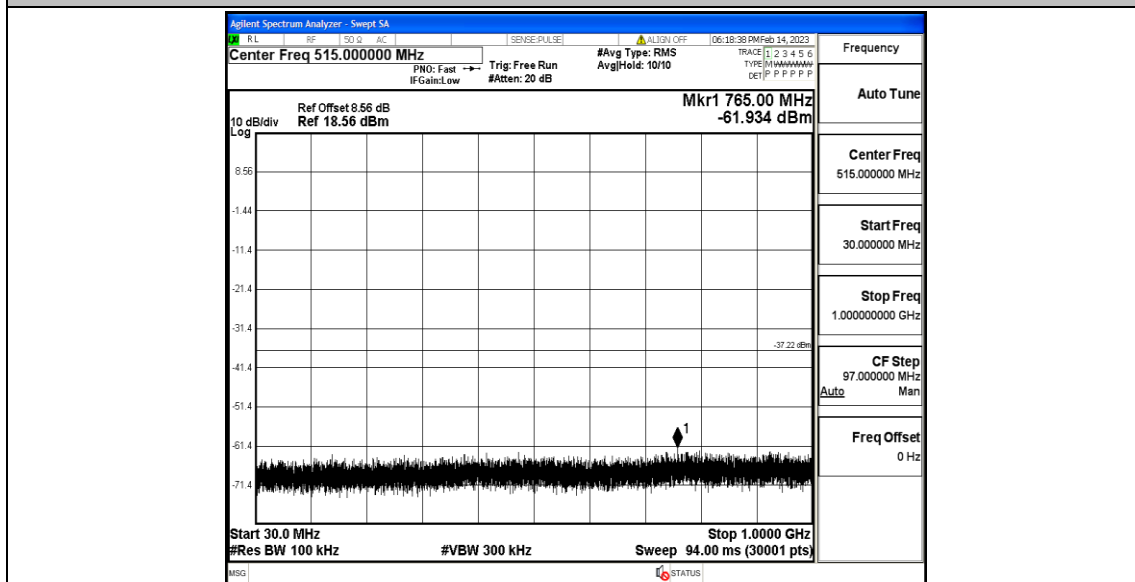
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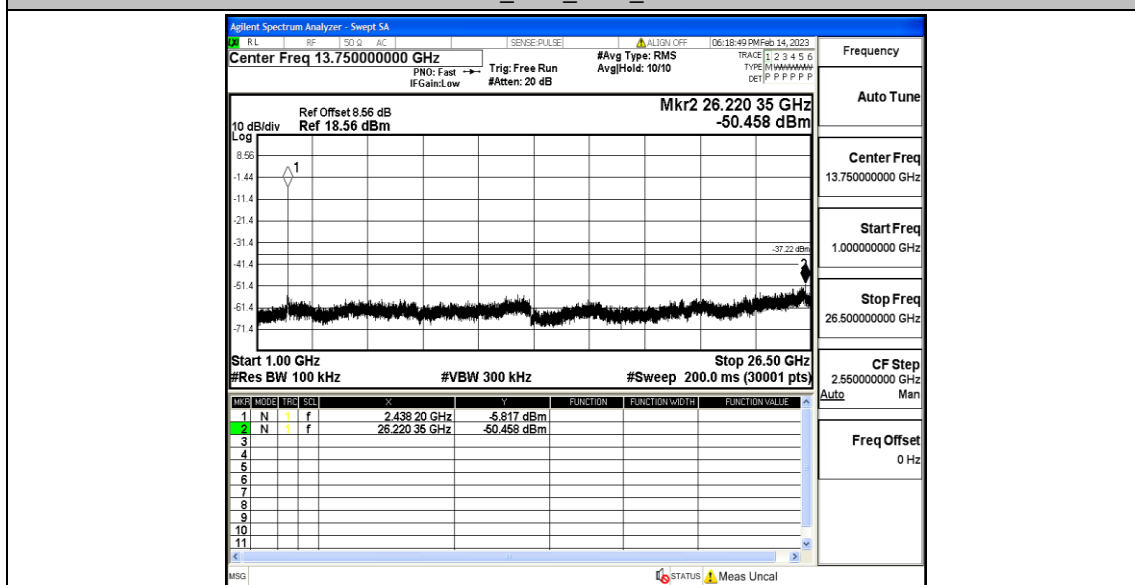
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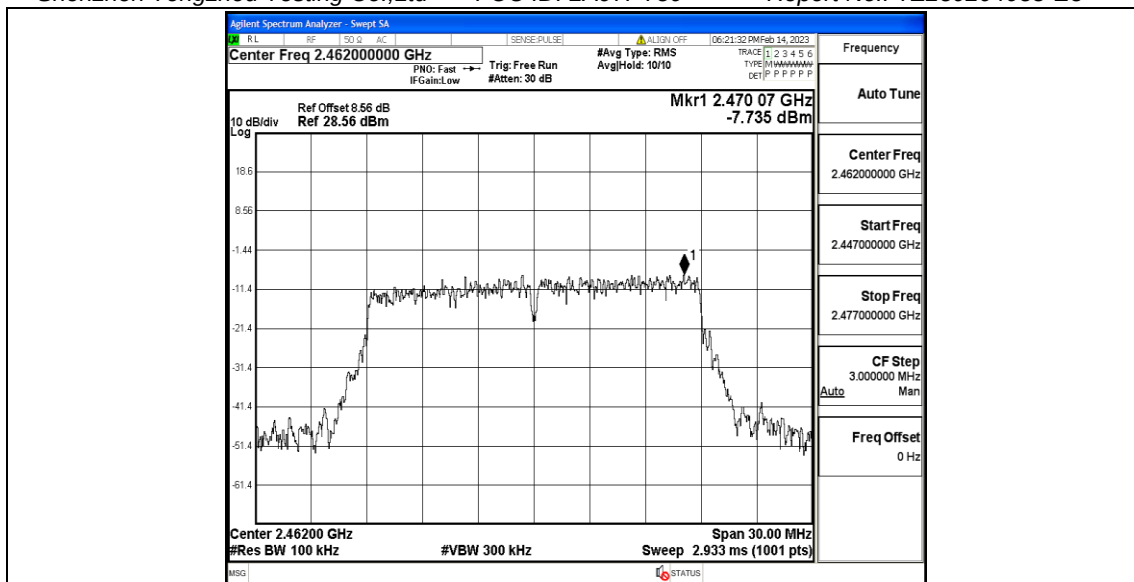
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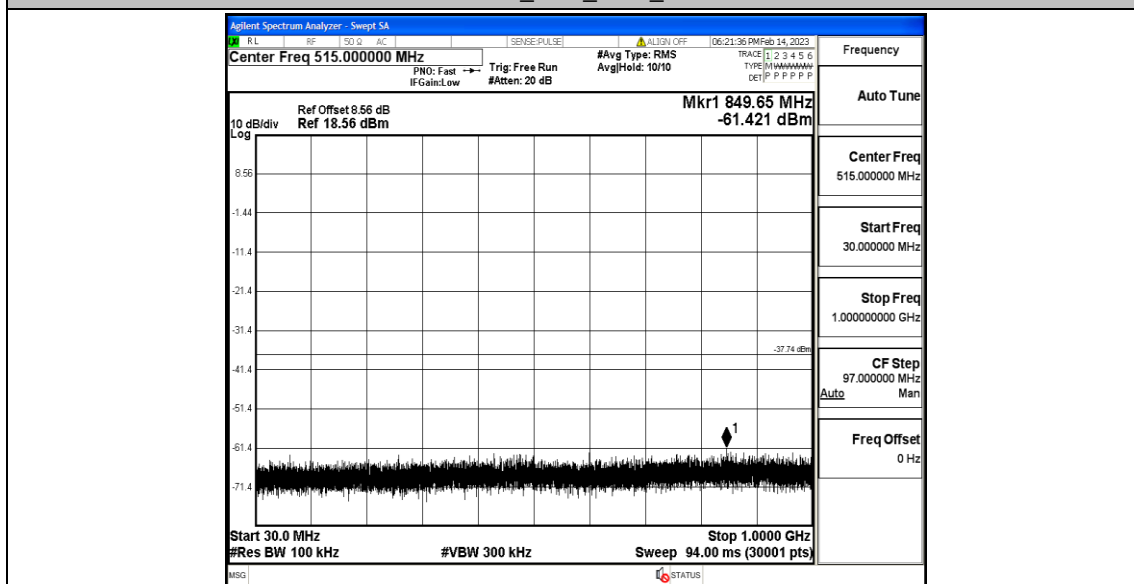
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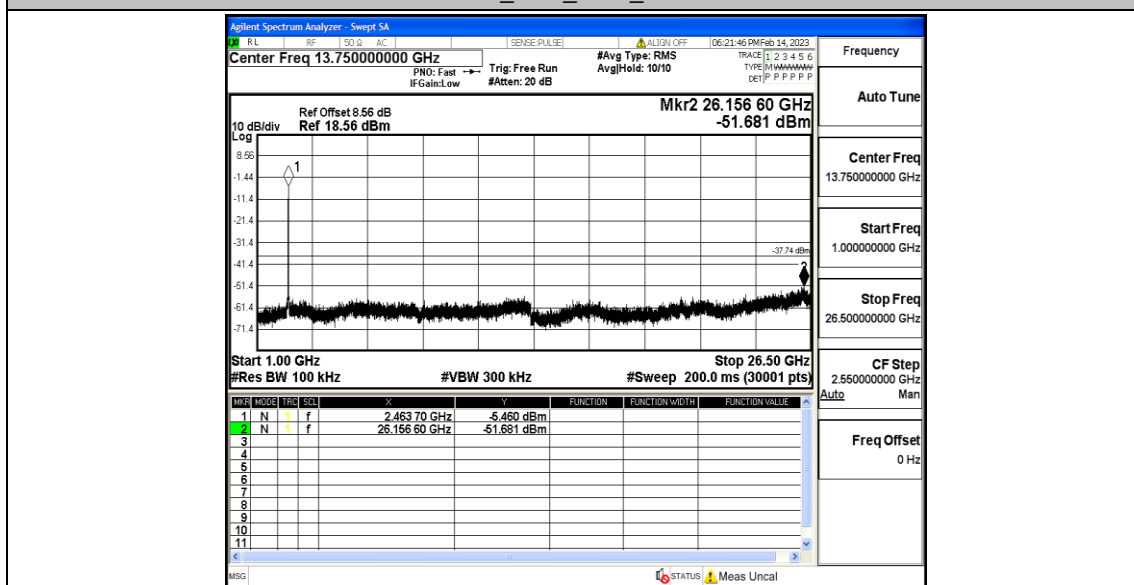
11N20SISO\_Ant1\_2462\_0~Reference



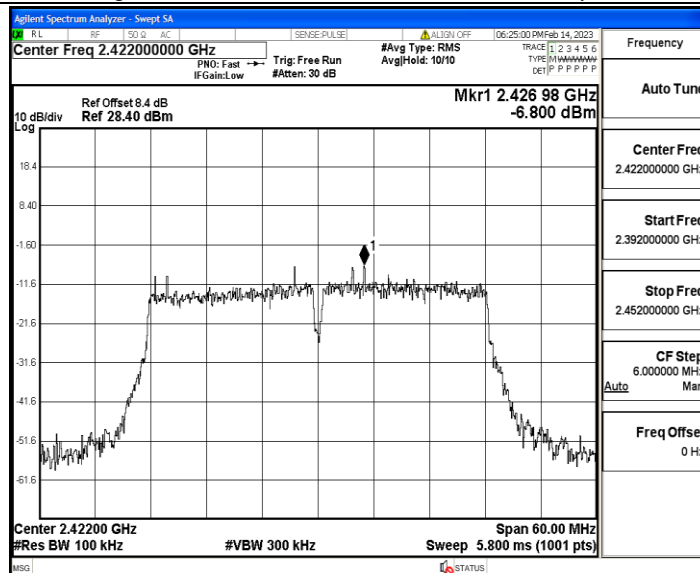
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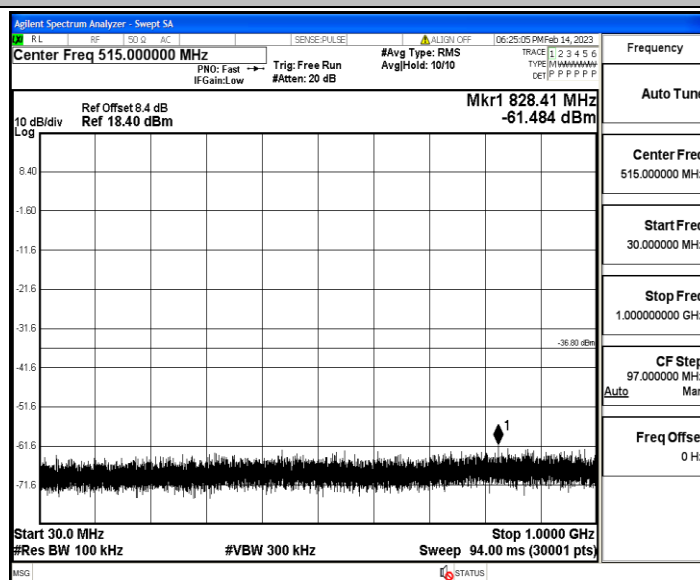
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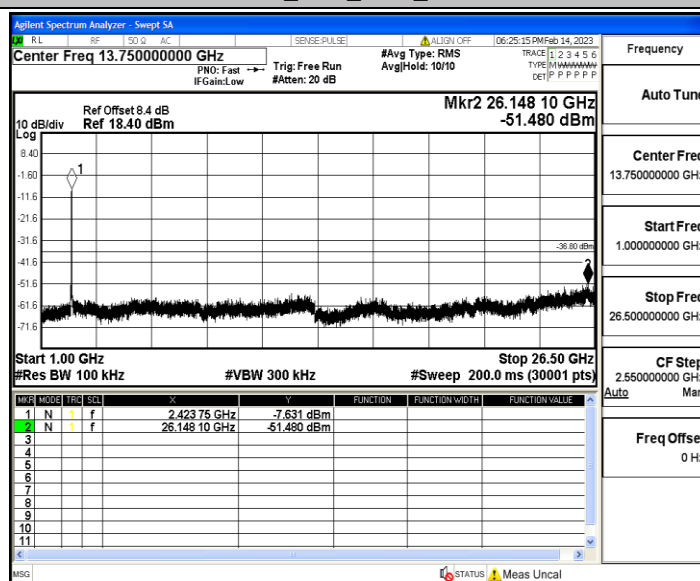
11N40SISO\_Ant1\_2422\_0~Reference



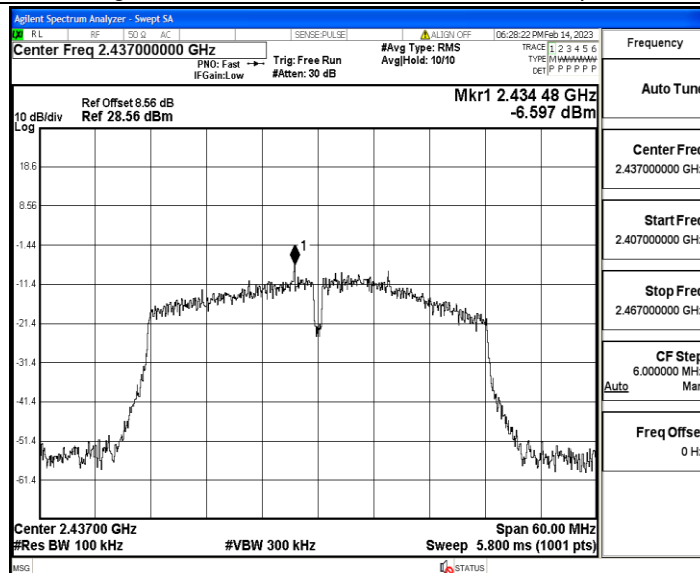
11N40SISO\_Ant1\_2422\_30~1000



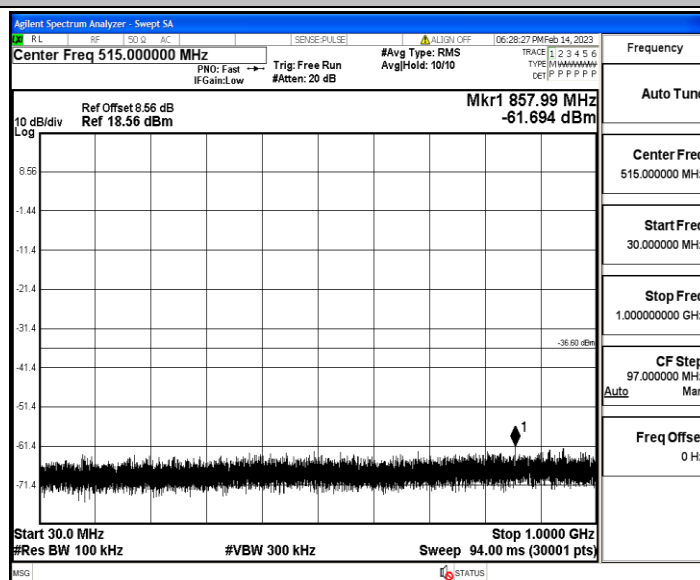
11N40SISO\_Ant1\_2422\_1000~26500



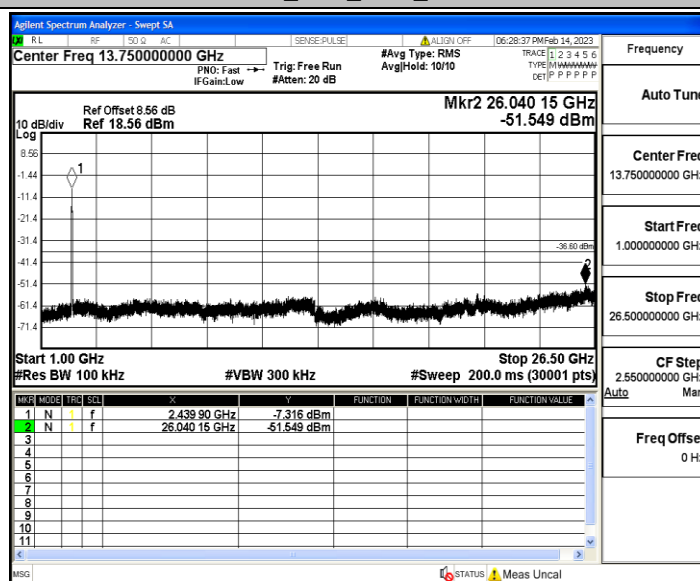
11N40SISO\_Ant1\_2437\_0~Reference



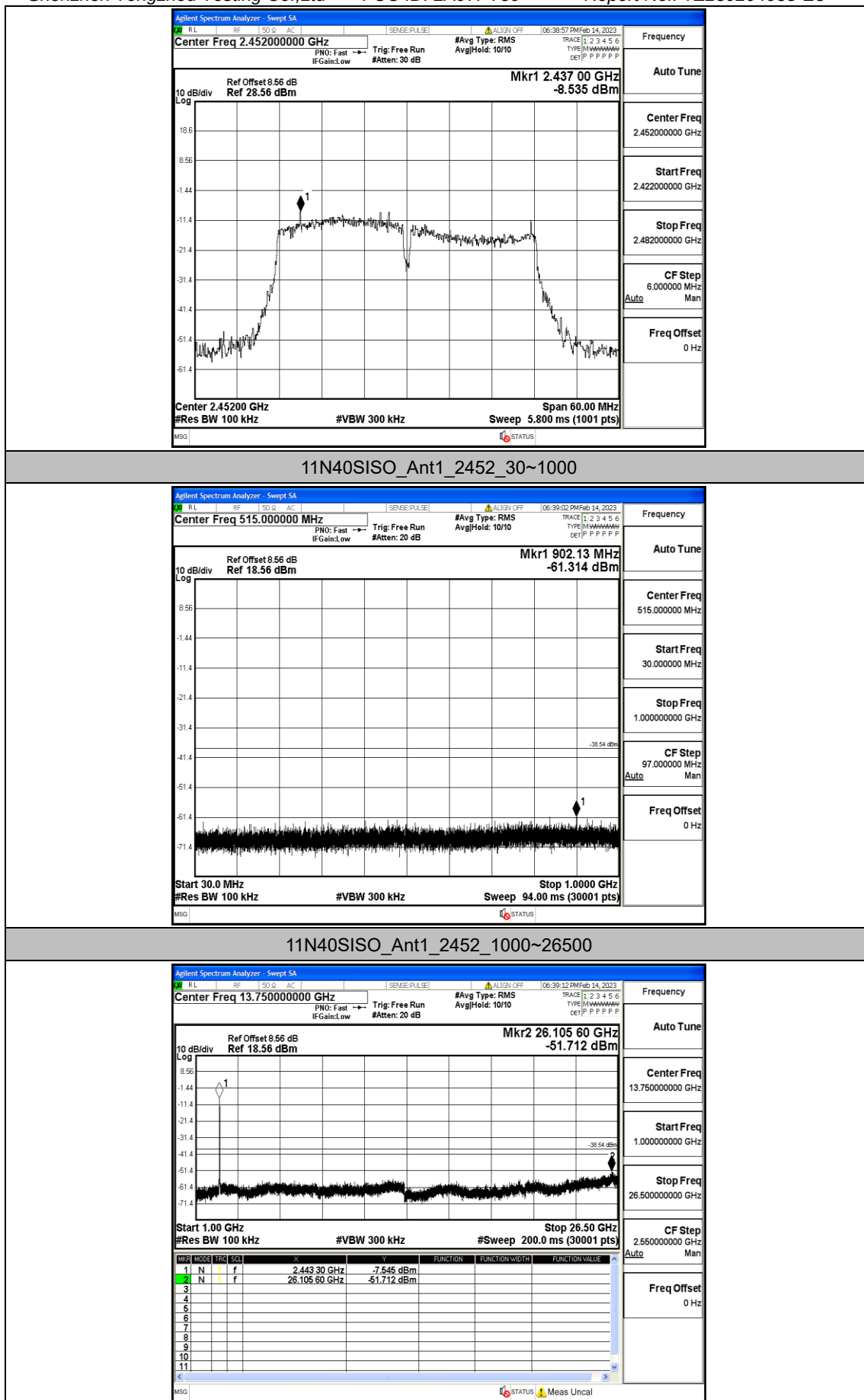
11N40SISO\_Ant1\_2437\_30~1000



11N40SISO\_Ant1\_2437\_1000~26500



11N40SISO\_Ant1\_2452\_0~Reference



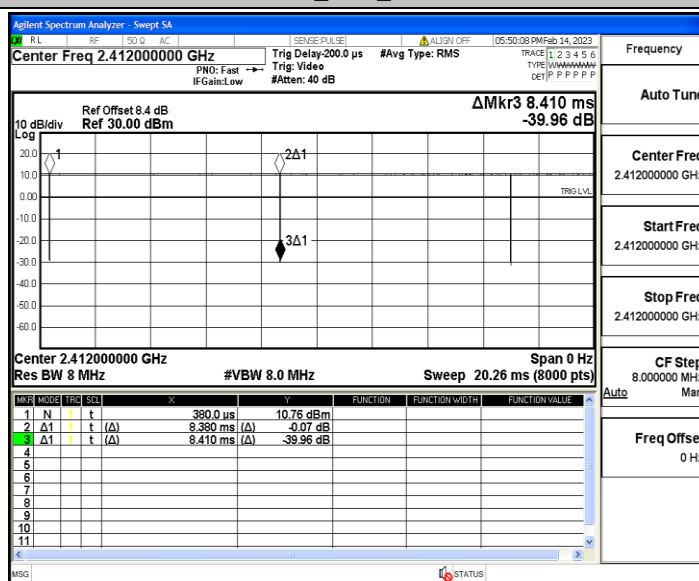
## Appendix G: Duty Cycle

### Test Result

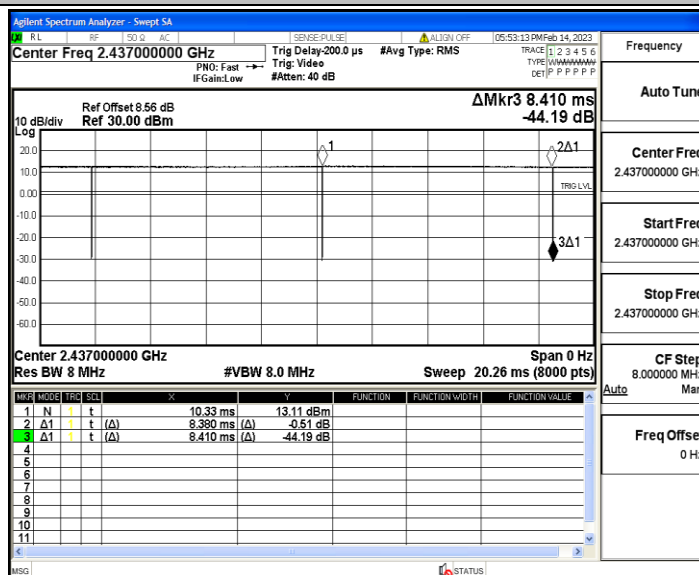
| TestMode  | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T  |
|-----------|---------|---------|----------------------------|--------------------------|----------------|------|
| 11B       | Ant1    | 2412    | 8.38                       | 8.41                     | 99.64          | 0.12 |
|           |         | 2437    | 8.38                       | 8.41                     | 99.64          | 0.12 |
|           |         | 2462    | 8.38                       | 8.41                     | 99.64          | 0.12 |
| 11G       | Ant1    | 2412    | 1.39                       | 1.43                     | 97.20          | 0.72 |
|           |         | 2437    | 1.39                       | 1.43                     | 97.20          | 0.72 |
|           |         | 2462    | 1.39                       | 1.43                     | 97.20          | 0.72 |
| 11N20SISO | Ant1    | 2412    | 1.30                       | 1.34                     | 97.01          | 0.77 |
|           |         | 2437    | 1.30                       | 1.34                     | 97.01          | 0.77 |
|           |         | 2462    | 1.30                       | 1.34                     | 97.01          | 0.77 |
| 11N40SISO | Ant1    | 2422    | 0.64                       | 0.68                     | 94.12          | 1.56 |
|           |         | 2437    | 0.64                       | 0.68                     | 94.12          | 1.56 |
|           |         | 2452    | 0.64                       | 0.68                     | 94.12          | 1.56 |

## Test Graphs

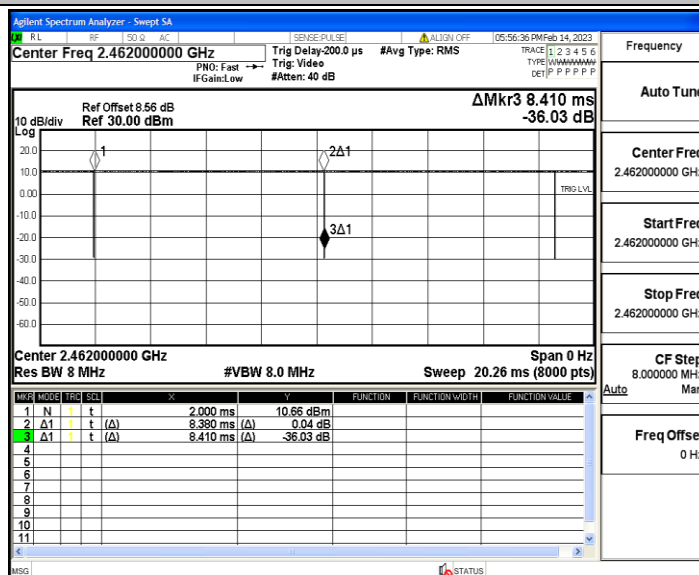
11B\_Ant1\_2412



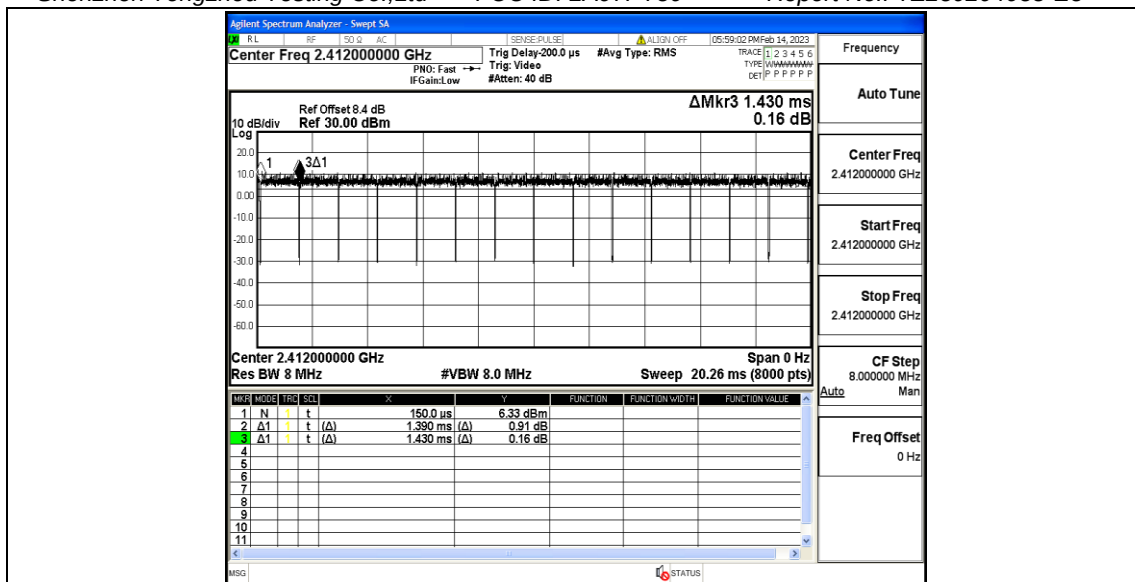
11B\_Ant1\_2437



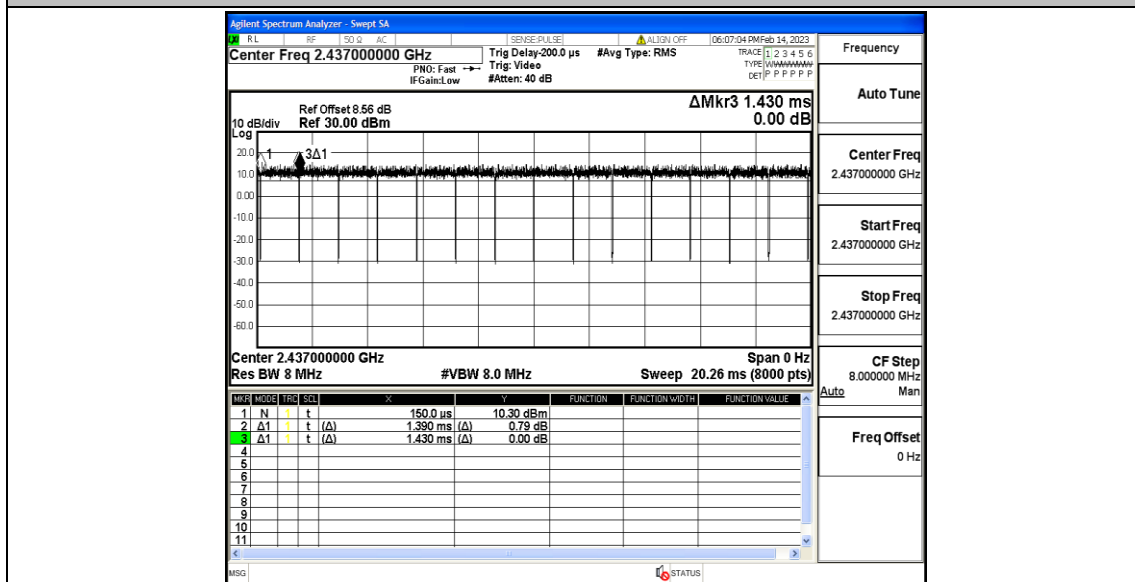
11B\_Ant1\_2462



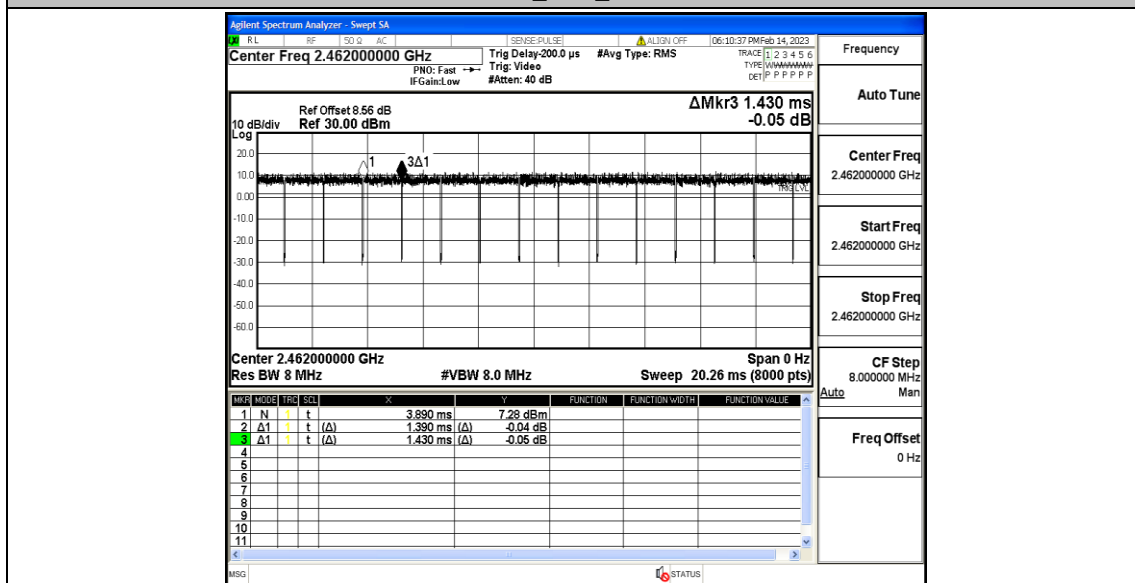
11G\_Ant1\_2412



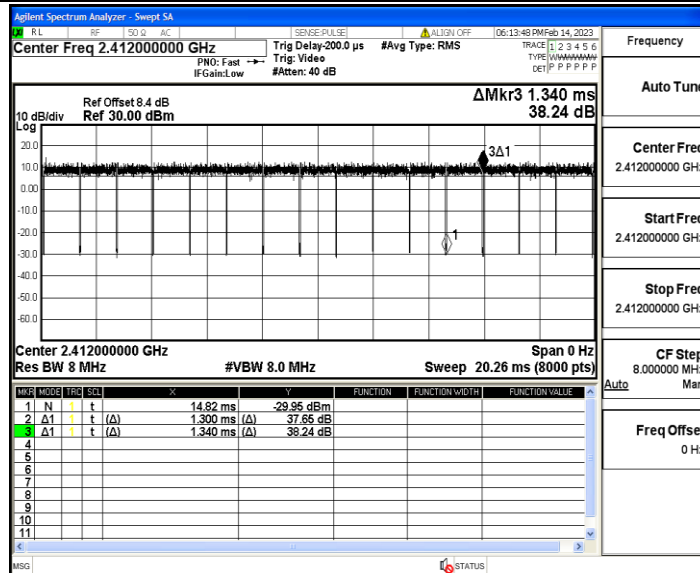
11G\_Ant1\_2437



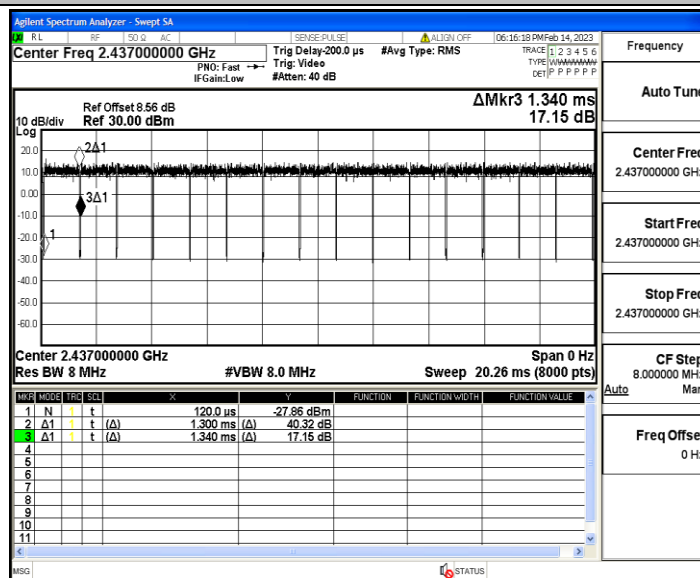
11G\_Ant1\_2462



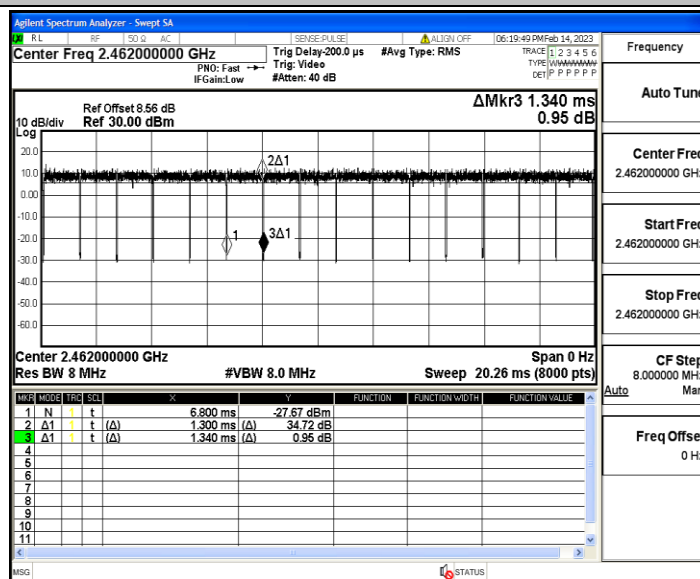
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422

