

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

**Product Name: Smartphone**

**Trade Mark: YEZZ**

**Test Model: LIV 3S LTE**

**FCC ID: 2APW4LIV3SL**

### Environmental Conditions

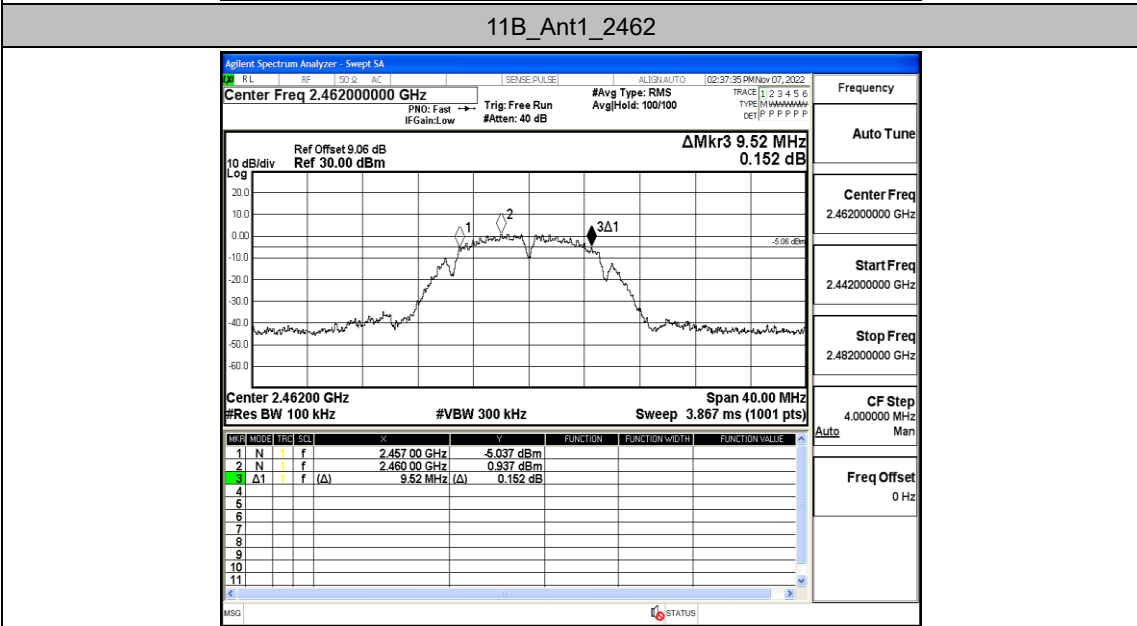
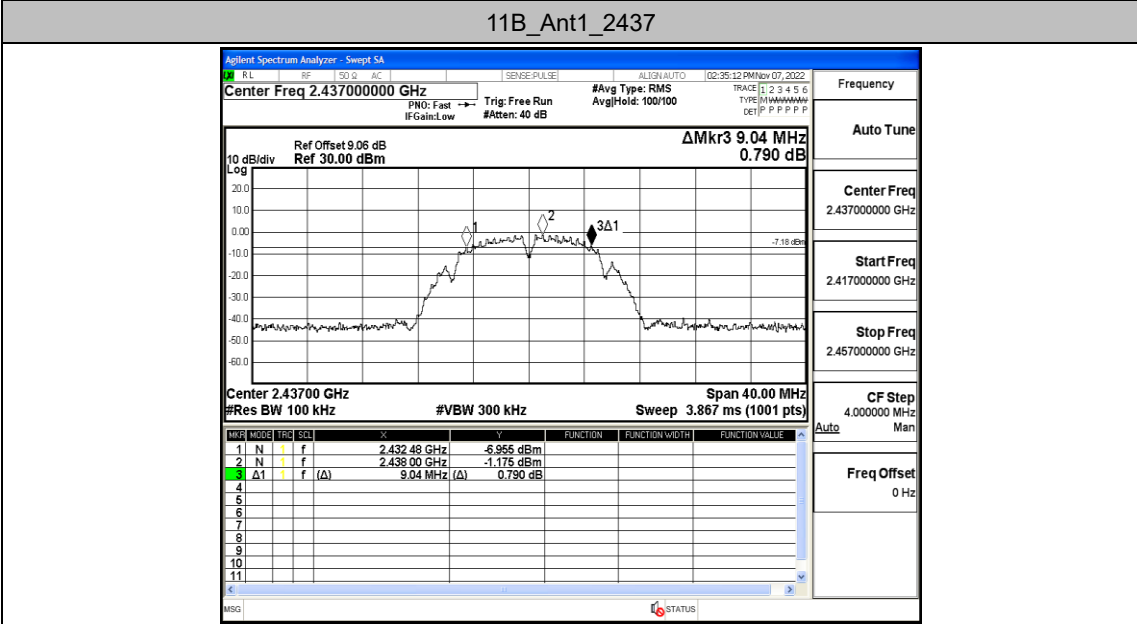
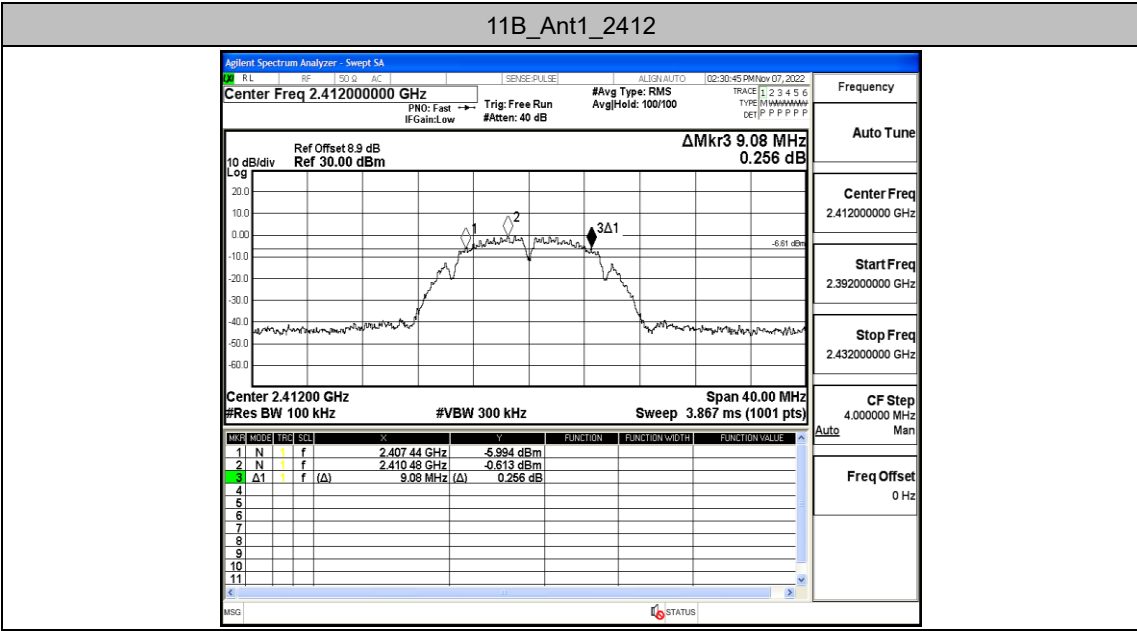
|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8℃     |
| Relative Humidity: | 58%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Anna Hu   |
| Supervised by:     | Hugo Chen |
| NOTE               | N/A       |

## Appendix A: DTS Bandwidth

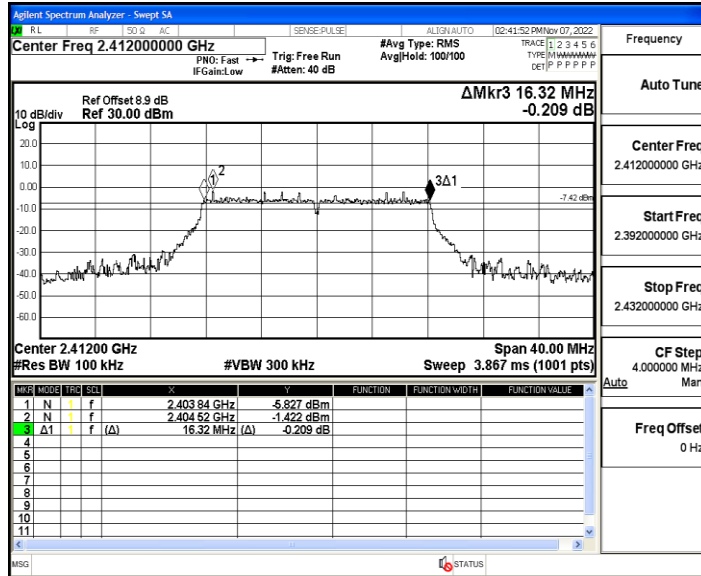
### Test Result

| TestMode  | Antenna | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412    | 9.080        | 2407.440 | 2416.520 | 0.5        | PASS    |
|           |         | 2437    | 9.040        | 2432.480 | 2441.520 | 0.5        | PASS    |
|           |         | 2462    | 9.520        | 2457.000 | 2466.520 | 0.5        | PASS    |
| 11G       | Ant1    | 2412    | 16.320       | 2403.840 | 2420.160 | 0.5        | PASS    |
|           |         | 2437    | 16.320       | 2428.840 | 2445.160 | 0.5        | PASS    |
|           |         | 2462    | 15.120       | 2453.760 | 2468.880 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412    | 17.600       | 2403.200 | 2420.800 | 0.5        | PASS    |
|           |         | 2437    | 17.320       | 2428.480 | 2445.800 | 0.5        | PASS    |
|           |         | 2462    | 16.320       | 2453.200 | 2469.520 | 0.5        | PASS    |

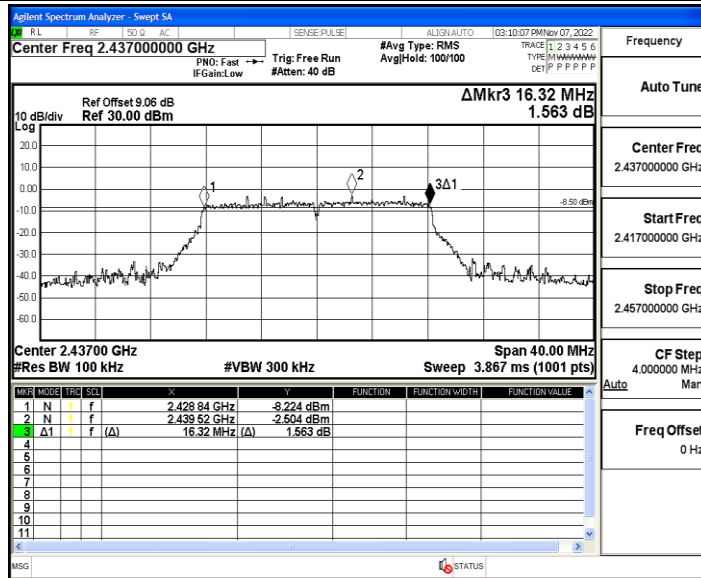
Test Graphs



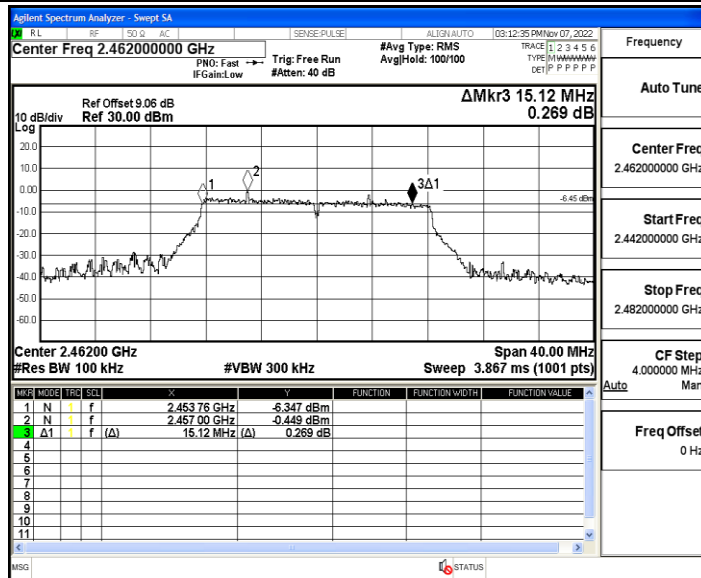
**11G\_Ant1\_2412**



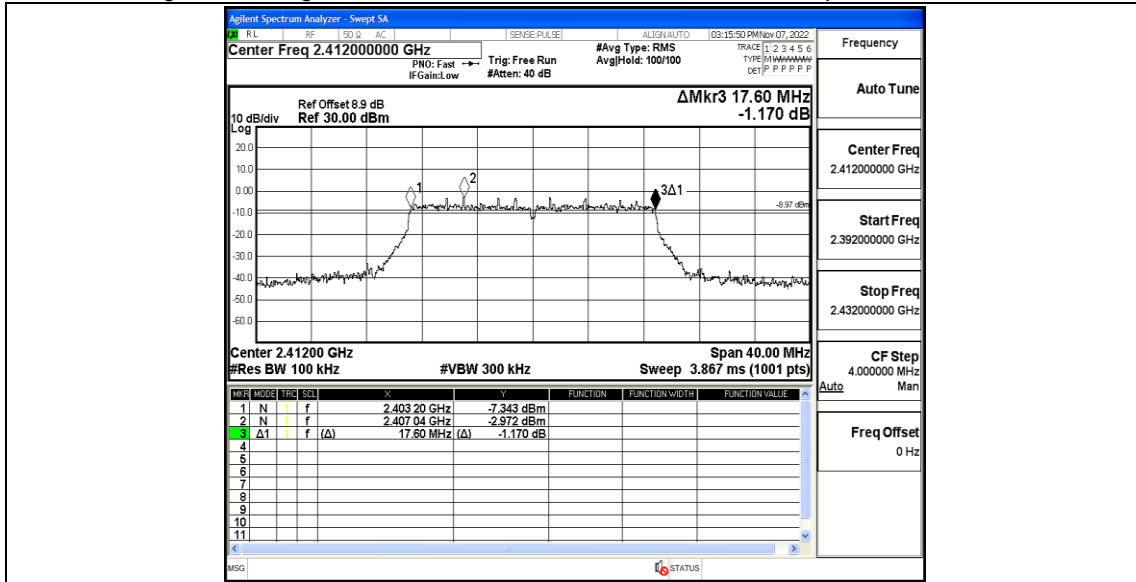
11G\_Ant1\_2437



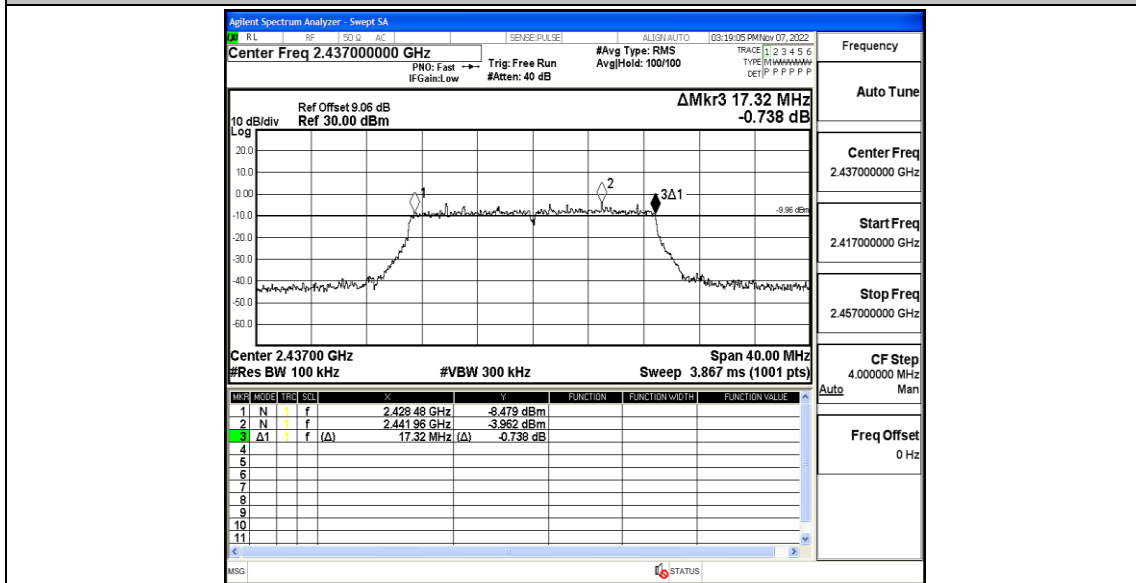
11G\_Ant1\_2462



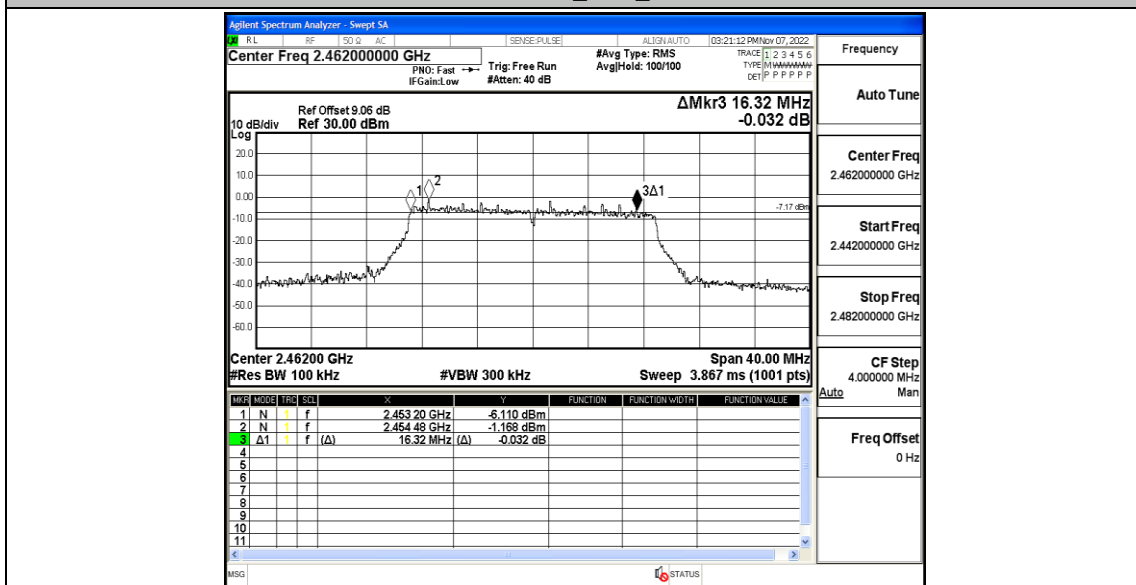
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

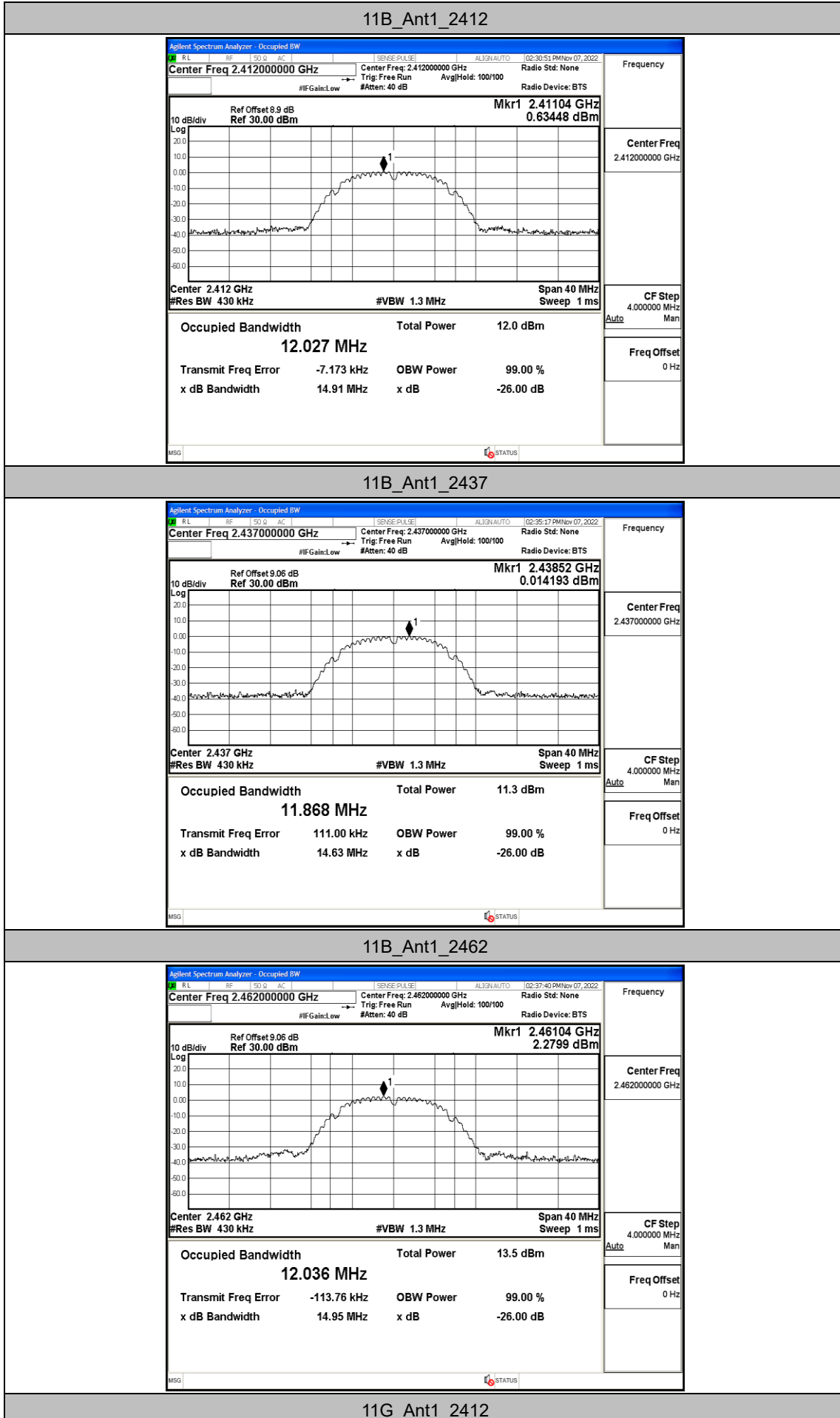


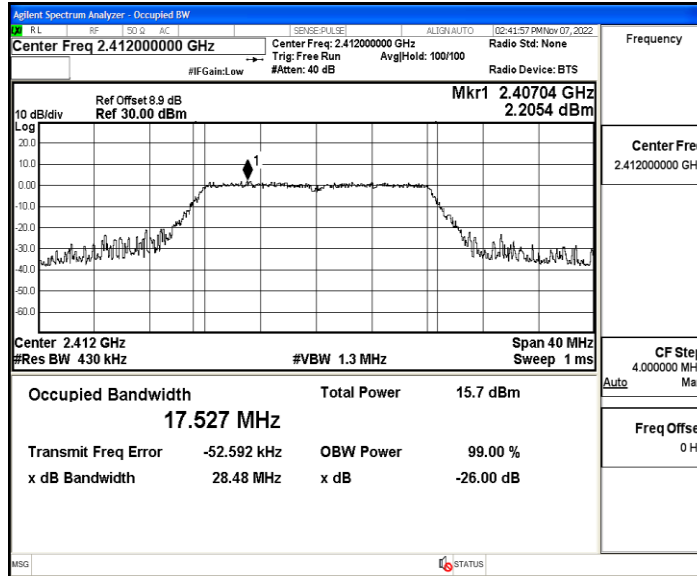
## Appendix B: Occupied Channel Bandwidth

### Test Result

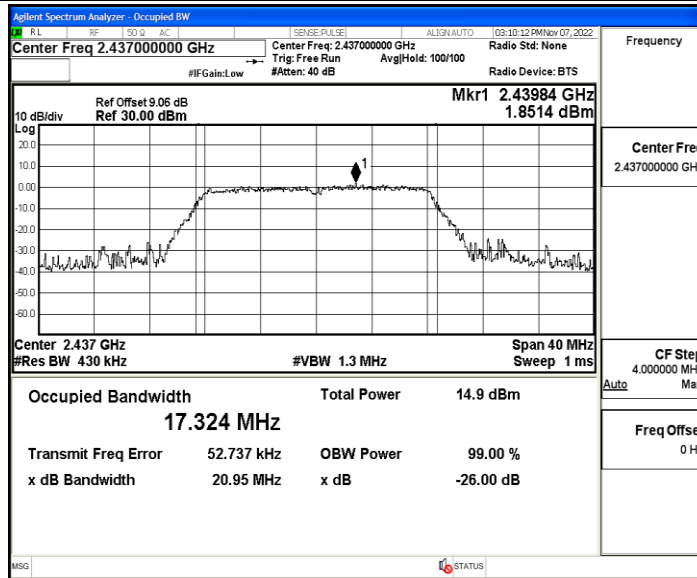
| TestMode  | Antenna | Channel | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412    | 12.027    | 2405.9793 | 2418.0063 | ---        | ---     |
|           |         | 2437    | 11.868    | 2431.1770 | 2443.0450 | ---        | ---     |
|           |         | 2462    | 12.036    | 2455.8682 | 2467.9042 | ---        | ---     |
| 11G       | Ant1    | 2412    | 17.527    | 2403.1839 | 2420.7109 | ---        | ---     |
|           |         | 2437    | 17.324    | 2428.3907 | 2445.7147 | ---        | ---     |
|           |         | 2462    | 17.422    | 2453.1139 | 2470.5359 | ---        | ---     |
| 11N20SISO | Ant1    | 2412    | 18.259    | 2402.8856 | 2421.1446 | ---        | ---     |
|           |         | 2437    | 18.065    | 2428.0522 | 2446.1172 | ---        | ---     |
|           |         | 2462    | 18.119    | 2452.8248 | 2470.9438 | ---        | ---     |

Test Graphs

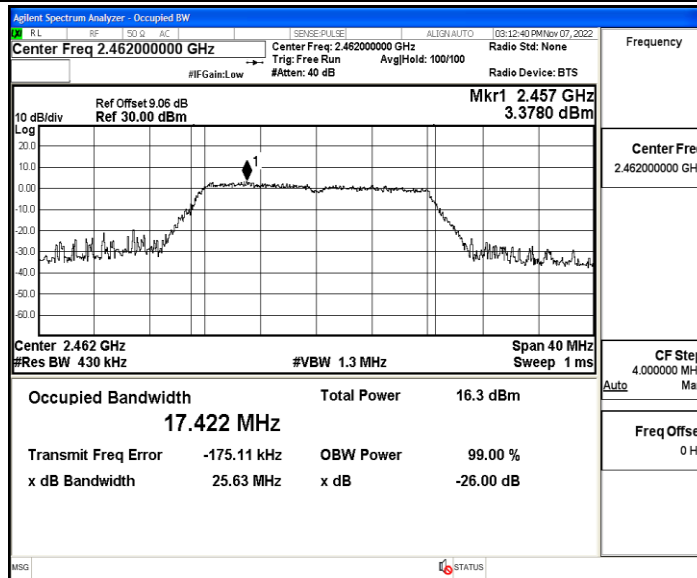




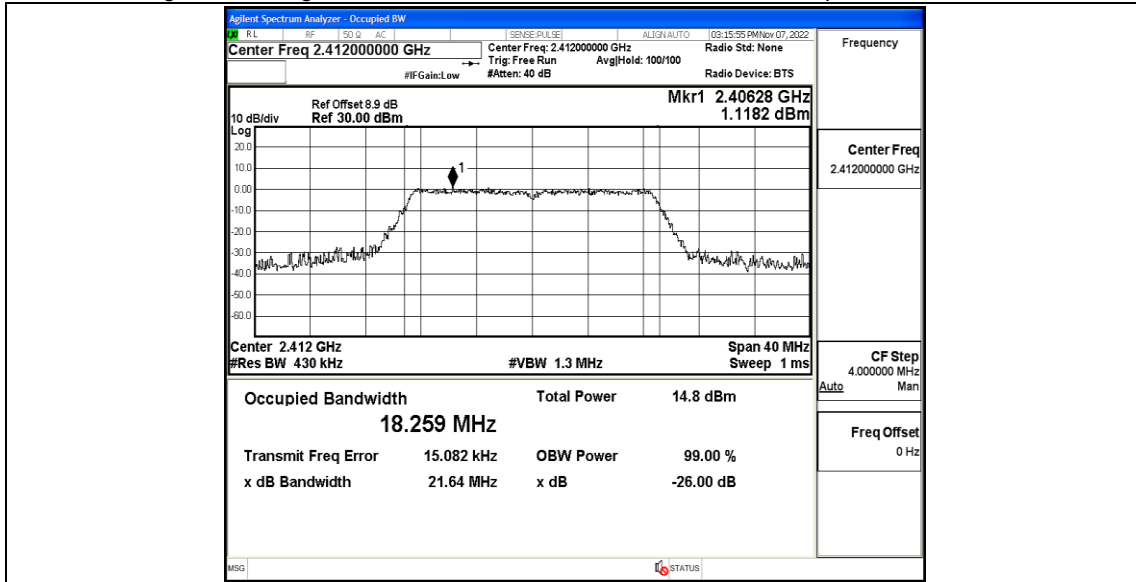
11G\_Ant1\_2437



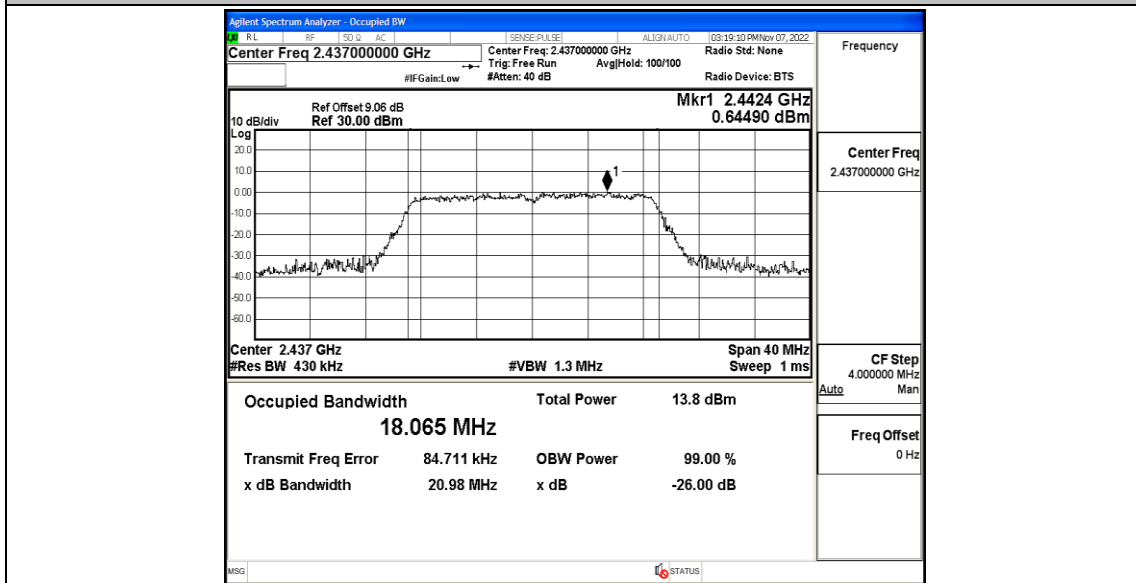
11G\_Ant1\_2462



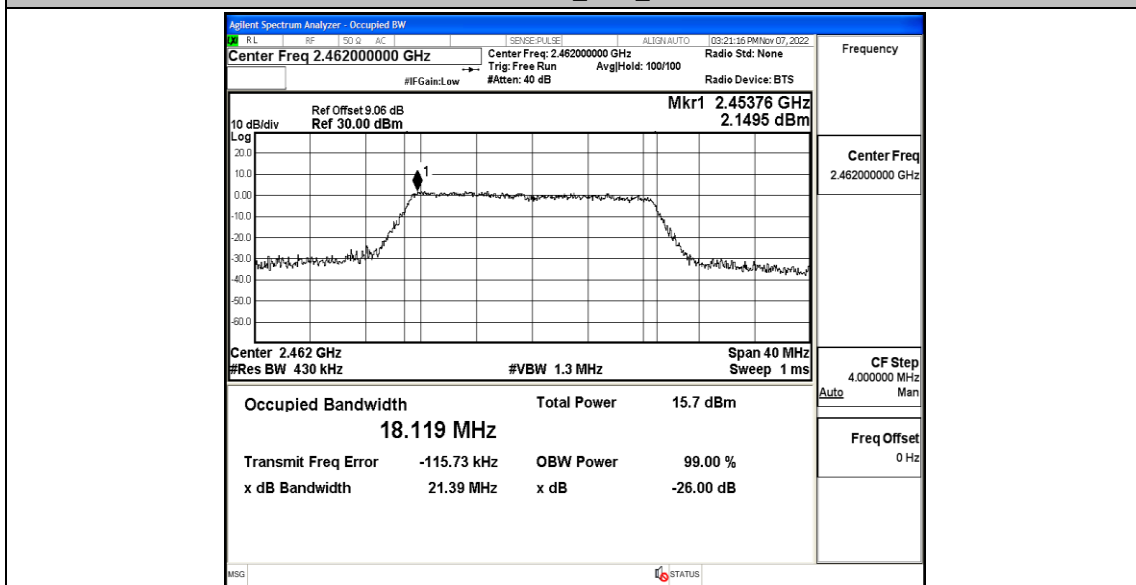
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462





## Appendix C: Maximum conducted output power

### Test Result

| TestMode  | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| 11B       | Ant1    | 2412    | 9.04        | ≤30.00     | PASS    |
|           |         | 2437    | 8.29        | ≤30.00     | PASS    |
|           |         | 2462    | 10.55       | ≤30.00     | PASS    |
| 11G       | Ant1    | 2412    | 9.65        | ≤30.00     | PASS    |
|           |         | 2437    | 9.01        | ≤30.00     | PASS    |
|           |         | 2462    | 10.37       | ≤30.00     | PASS    |
| 11N20SISO | Ant1    | 2412    | 8.75        | ≤30.00     | PASS    |
|           |         | 2437    | 7.76        | ≤30.00     | PASS    |
|           |         | 2462    | 9.53        | ≤30.00     | PASS    |

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

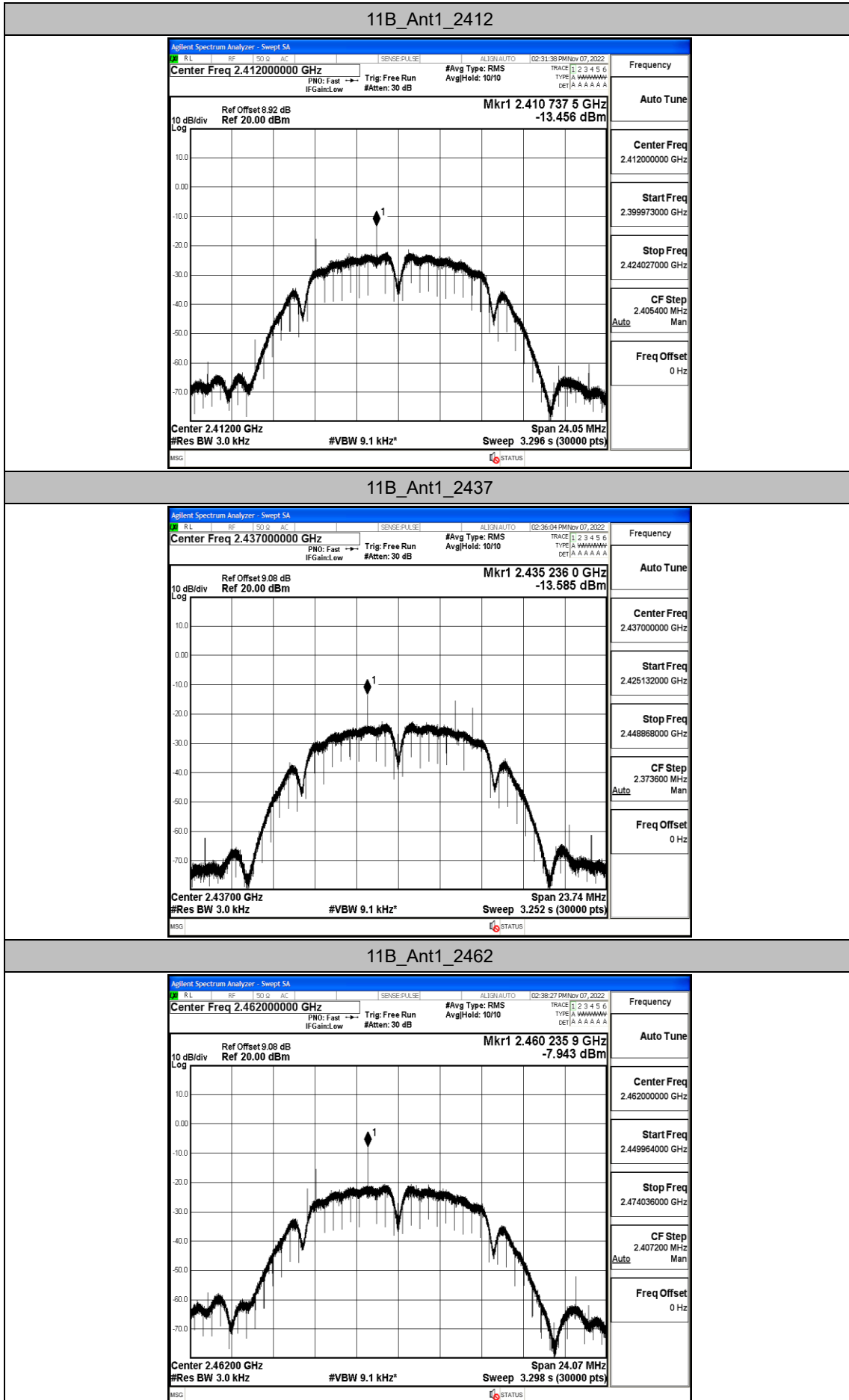
## Appendix D: Maximum power spectral density

### Test Result

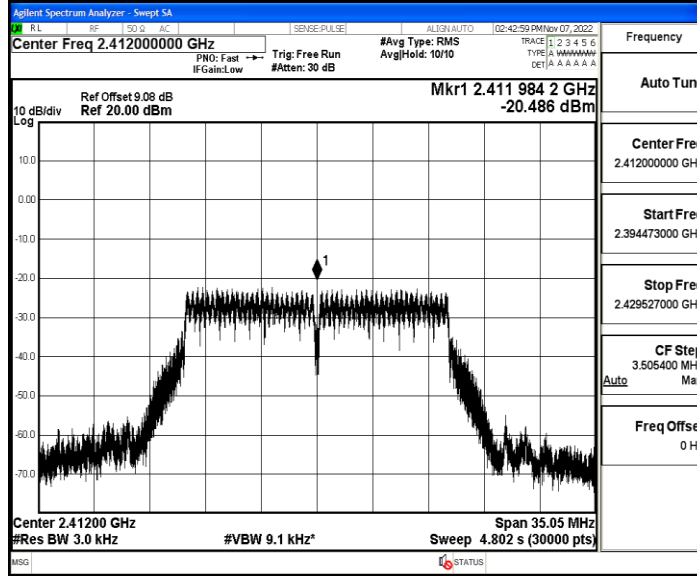
| TestMode  | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412    | -13.46               | ≤8.00           | PASS    |
|           |         | 2437    | -13.59               | ≤8.00           | PASS    |
|           |         | 2462    | -7.94                | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412    | -20.49               | ≤8.00           | PASS    |
|           |         | 2437    | -22.14               | ≤8.00           | PASS    |
|           |         | 2462    | -20.24               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412    | -21.65               | ≤8.00           | PASS    |
|           |         | 2437    | -20.67               | ≤8.00           | PASS    |
|           |         | 2462    | -20.5                | ≤8.00           | PASS    |

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

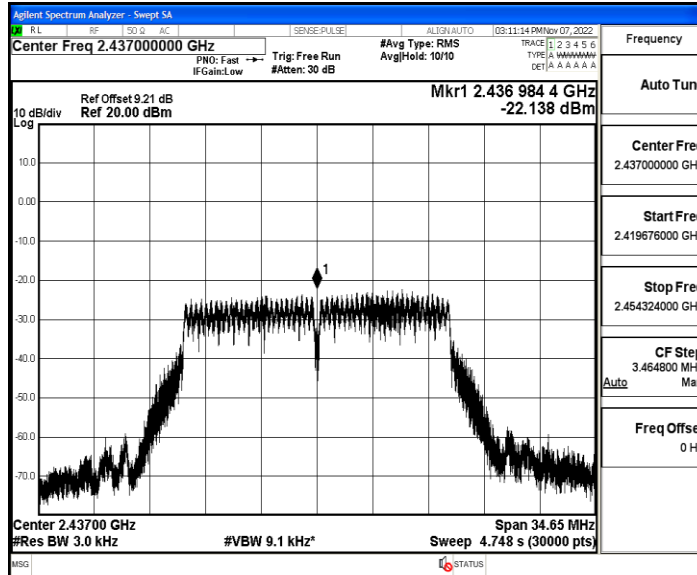
### Test Graphs



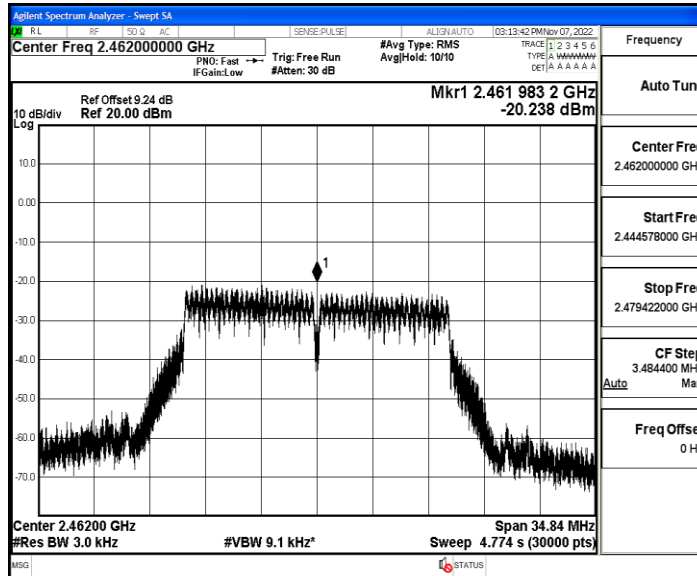
11G\_Ant1\_2412



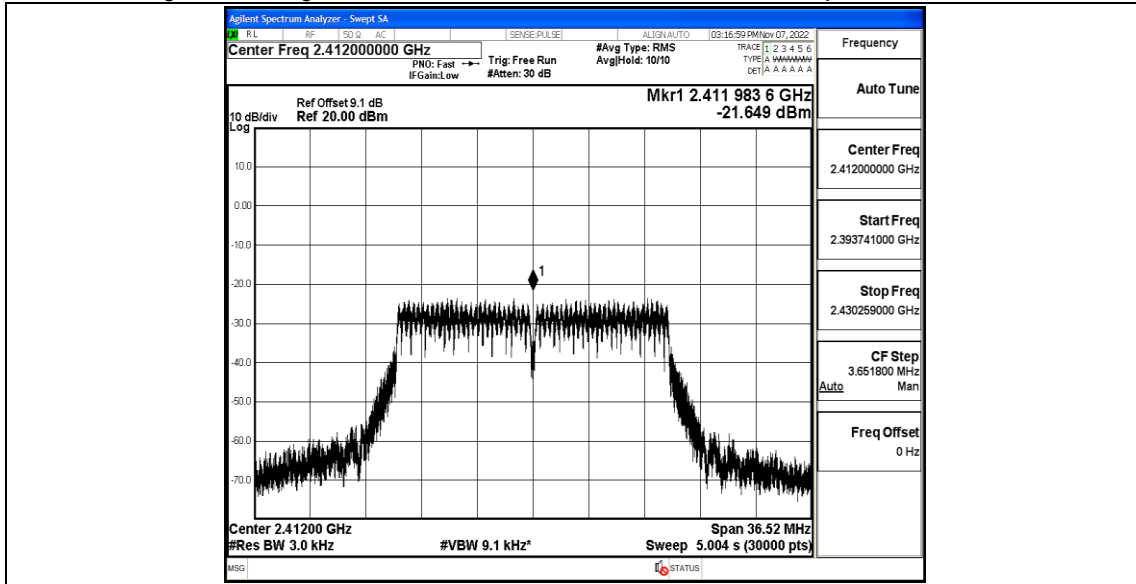
11G\_Ant1\_2437



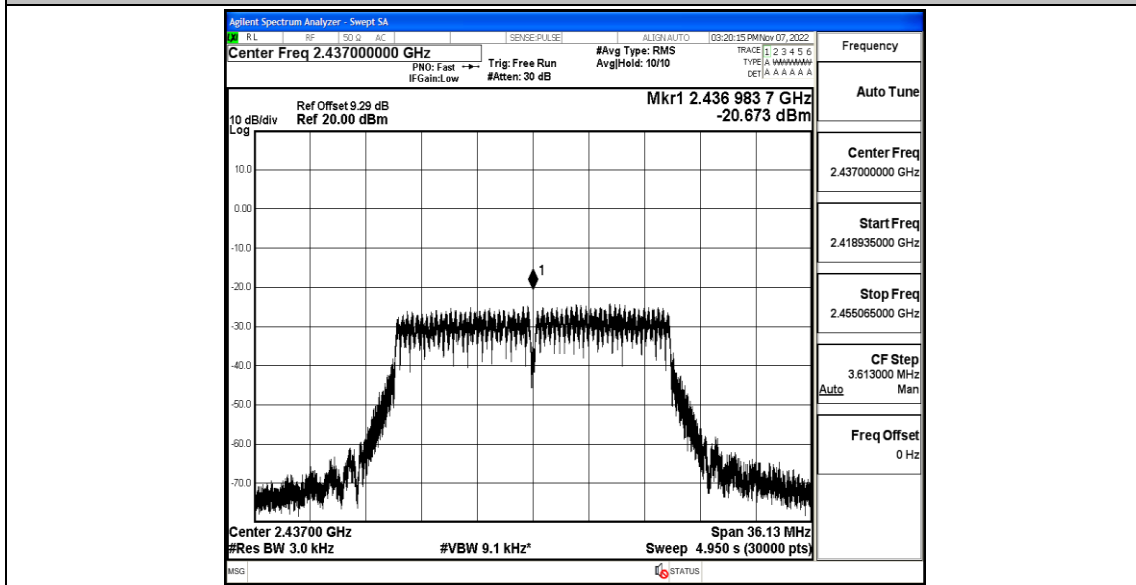
11G\_Ant1\_2462



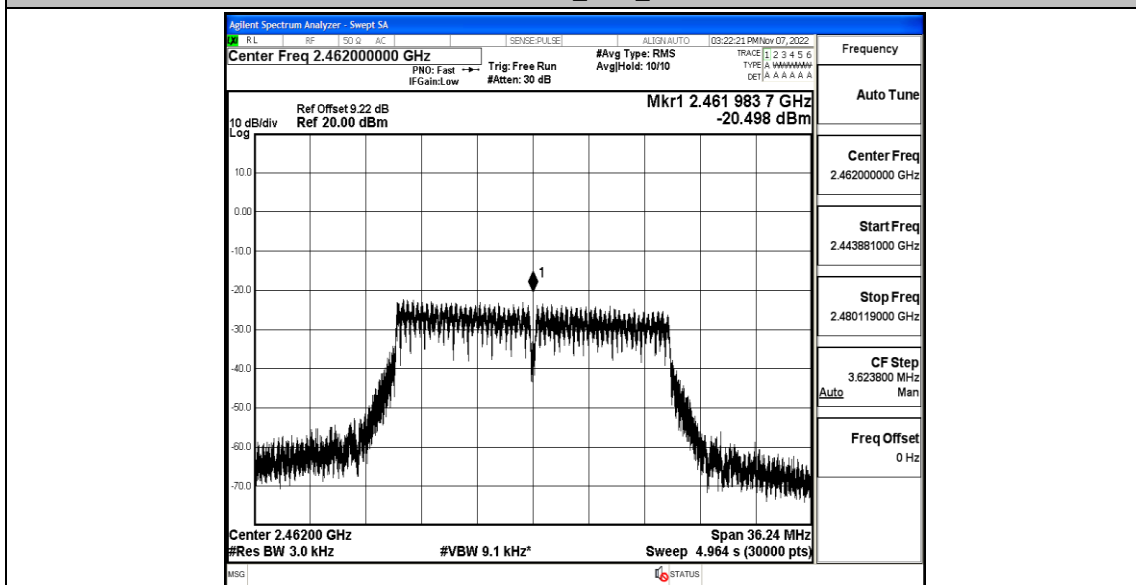
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



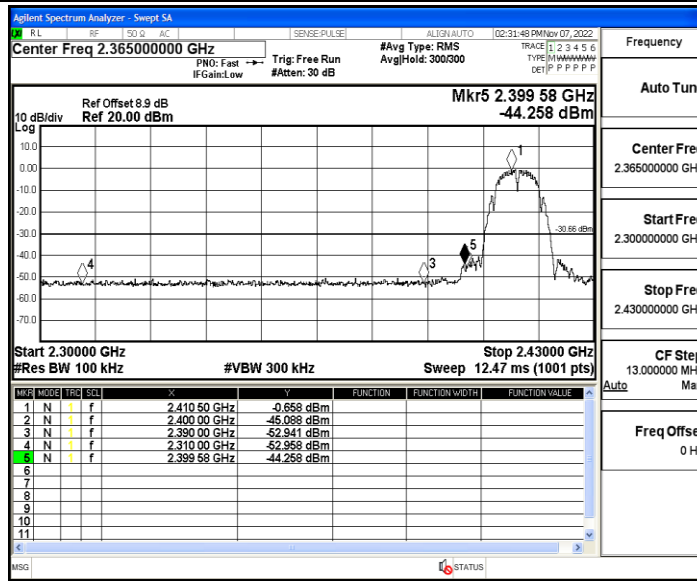
## Appendix E: Band edge measurements

### Test Result

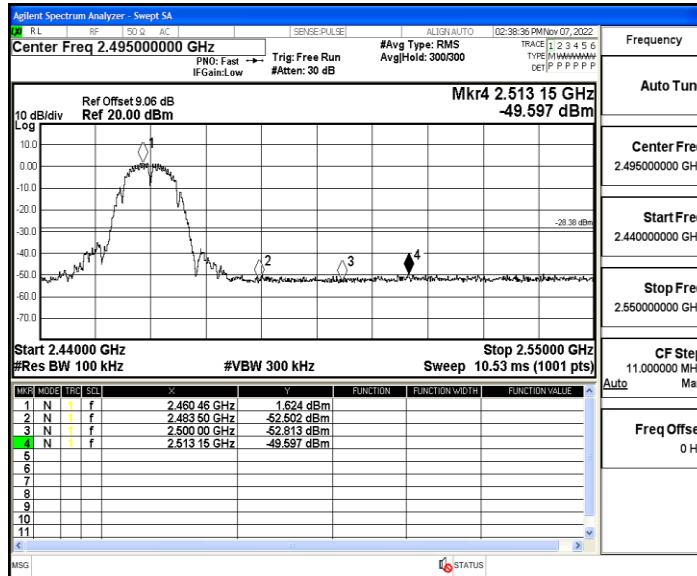
| TestMode  | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|---------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412    | -0.66         | -44.26      | ≤-30.66    | PASS    |
|           |         | High   | 2462    | 1.62          | -49.6       | ≤-28.38    | PASS    |
| 11G       | Ant1    | Low    | 2412    | -1.21         | -30.44      | ≤-31.21    | FAIL    |
|           |         | High   | 2462    | -0.07         | -42.84      | ≤-30.07    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412    | -2.53         | -36.25      | ≤-32.53    | PASS    |
|           |         | High   | 2462    | -0.82         | -44.6       | ≤-30.82    | PASS    |

Test Graphs

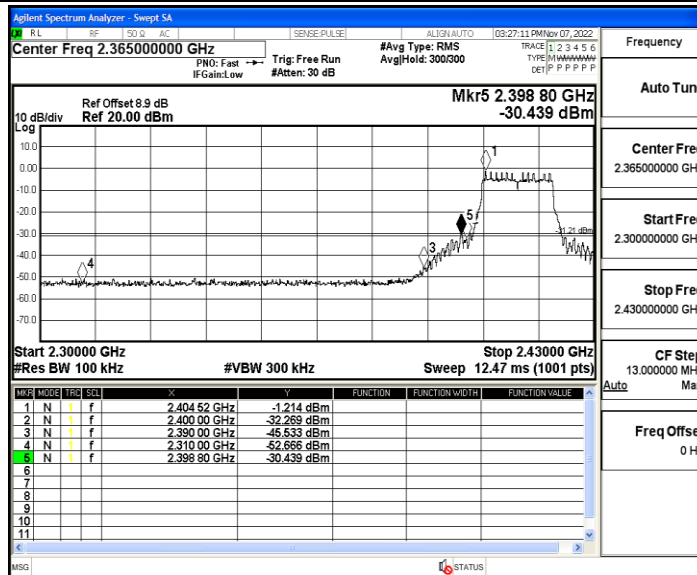
11B\_Ant1\_Low\_2412



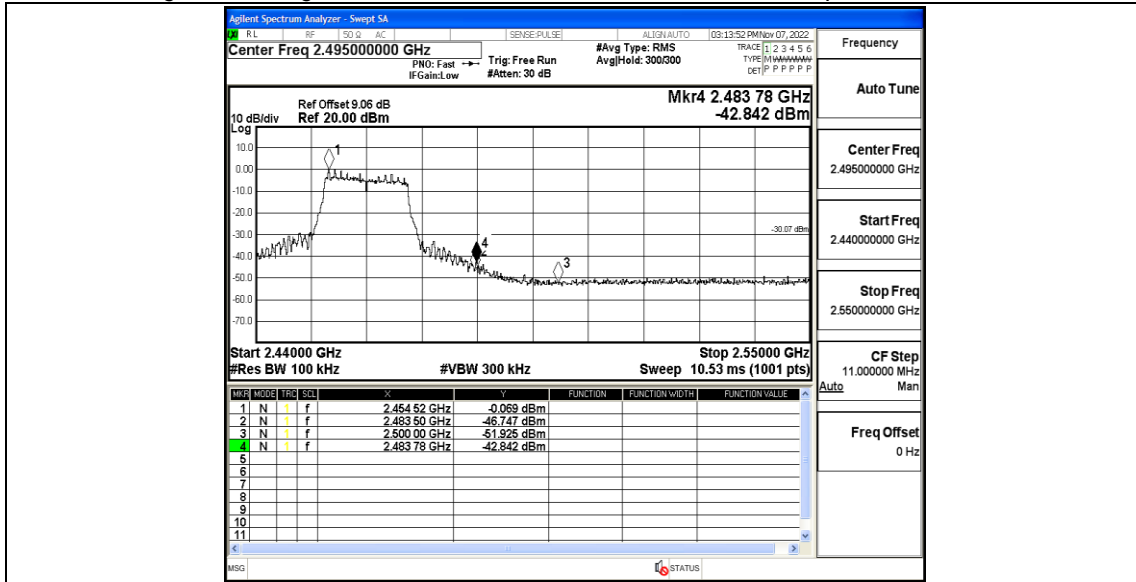
11B\_Ant1\_High\_2462



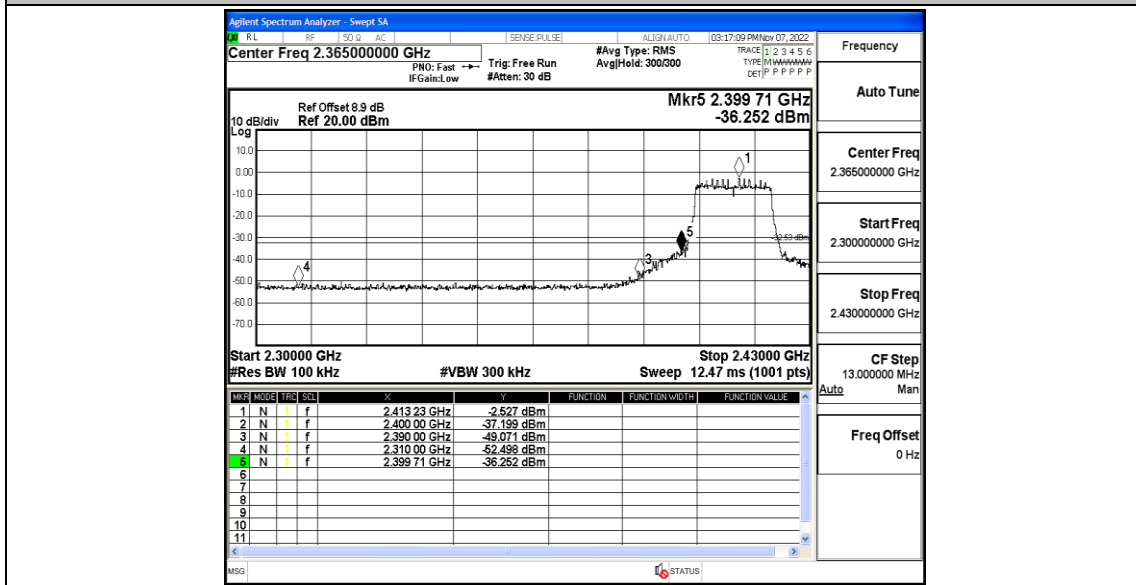
11G\_Ant1\_Low\_2412



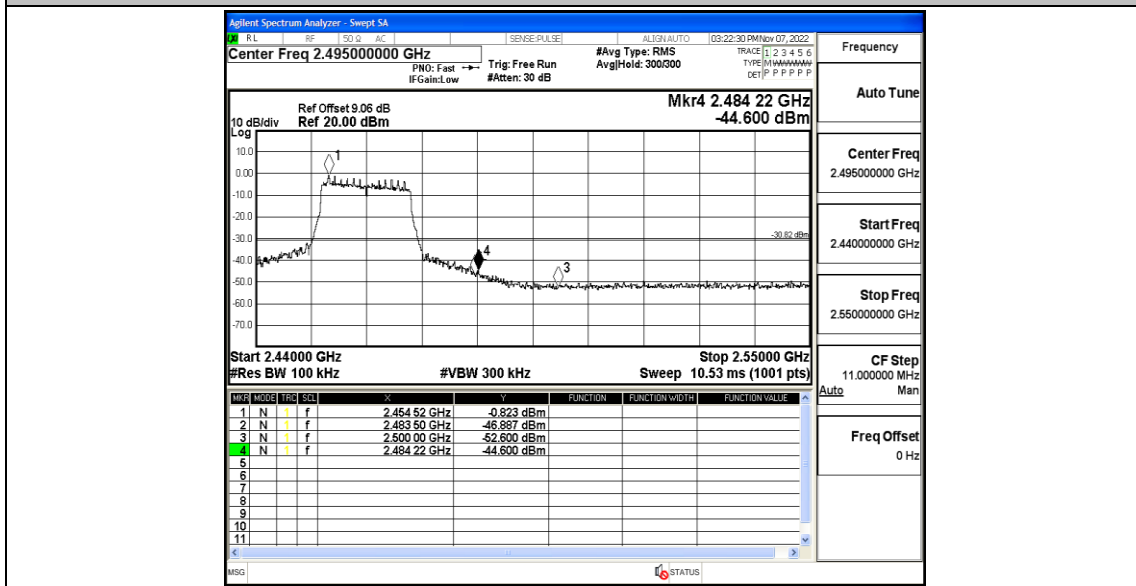
11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_High\_2462





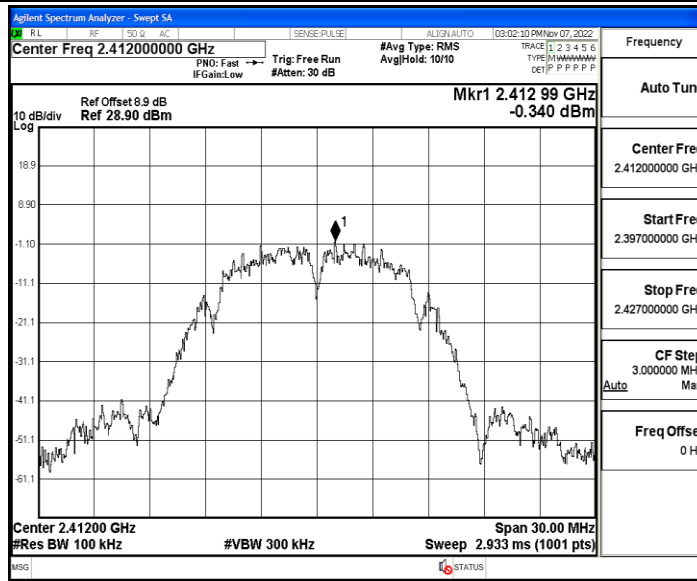
## Appendix F: Conducted Spurious Emission

### Test Result

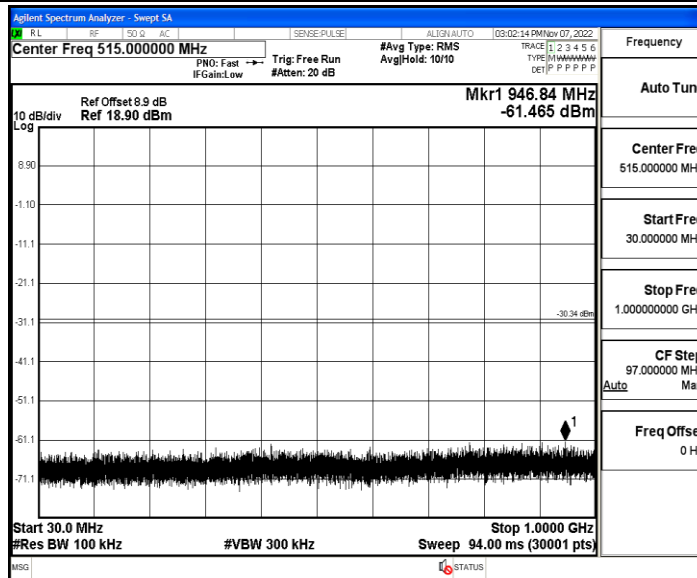
| TestMode  | Antenna | Channel | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412    | Reference       | -0.34          | -0.34        | ---         | PASS    |
|           |         |         | 30~1000         | -0.34          | -61.47       | ≤-30.34     | PASS    |
|           |         |         | 1000~26500      | -0.34          | -51.41       | ≤-30.34     | PASS    |
|           |         | 2437    | Reference       | -0.86          | -0.86        | ---         | PASS    |
|           |         |         | 30~1000         | -0.86          | -61.96       | ≤-30.86     | PASS    |
|           |         |         | 1000~26500      | -0.86          | -51.4        | ≤-30.86     | PASS    |
|           |         | 2462    | Reference       | 1.48           | 1.48         | ---         | PASS    |
|           |         |         | 30~1000         | 1.48           | -60.51       | ≤-28.52     | PASS    |
|           |         |         | 1000~26500      | 1.48           | -51.41       | ≤-28.52     | PASS    |
| 11G       | Ant1    | 2412    | Reference       | -2.53          | -2.53        | ---         | PASS    |
|           |         |         | 30~1000         | -2.53          | -60.91       | ≤-32.53     | PASS    |
|           |         |         | 1000~26500      | -2.53          | -51.26       | ≤-32.53     | PASS    |
|           |         | 2437    | Reference       | -5.42          | -5.42        | ---         | PASS    |
|           |         |         | 30~1000         | -5.42          | -61.21       | ≤-35.42     | PASS    |
|           |         |         | 1000~26500      | -5.42          | -51.31       | ≤-35.42     | PASS    |
|           |         | 2462    | Reference       | -3.27          | -3.27        | ---         | PASS    |
|           |         |         | 30~1000         | -3.27          | -61.22       | ≤-33.27     | PASS    |
|           |         |         | 1000~26500      | -3.27          | -50.18       | ≤-33.27     | PASS    |
| 11N20SISO | Ant1    | 2412    | Reference       | -3.31          | -3.31        | ---         | PASS    |
|           |         |         | 30~1000         | -3.31          | -61.17       | ≤-33.31     | PASS    |
|           |         |         | 1000~26500      | -3.31          | -51.25       | ≤-33.31     | PASS    |
|           |         | 2437    | Reference       | -4.46          | -4.46        | ---         | PASS    |
|           |         |         | 30~1000         | -4.46          | -61.32       | ≤-34.46     | PASS    |
|           |         |         | 1000~26500      | -4.46          | -51.72       | ≤-34.46     | PASS    |
|           |         | 2462    | Reference       | -2.04          | -2.04        | ---         | PASS    |
|           |         |         | 30~1000         | -2.04          | -61.89       | ≤-32.04     | PASS    |
|           |         |         | 1000~26500      | -2.04          | -51.93       | ≤-32.04     | PASS    |

Test Graphs

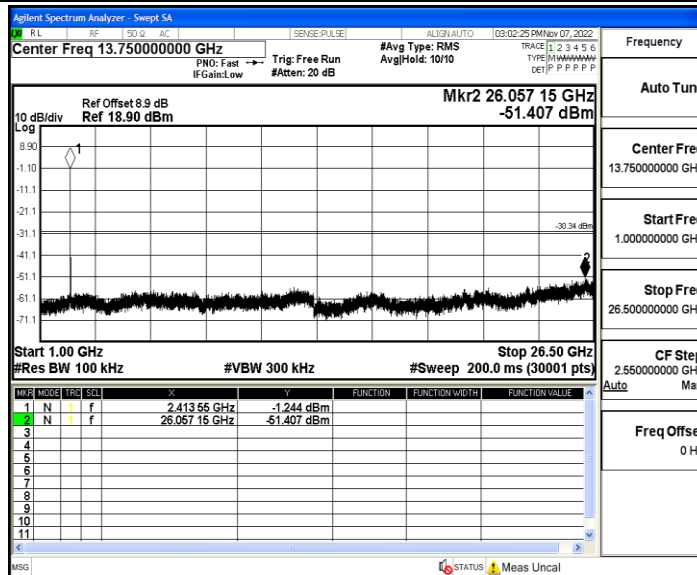
11B\_Ant1\_2412\_0~Reference



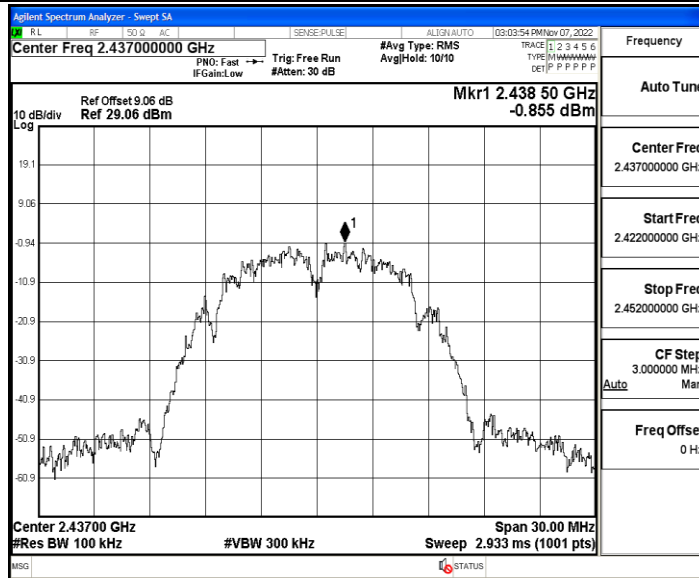
11B\_Ant1\_2412\_30~1000



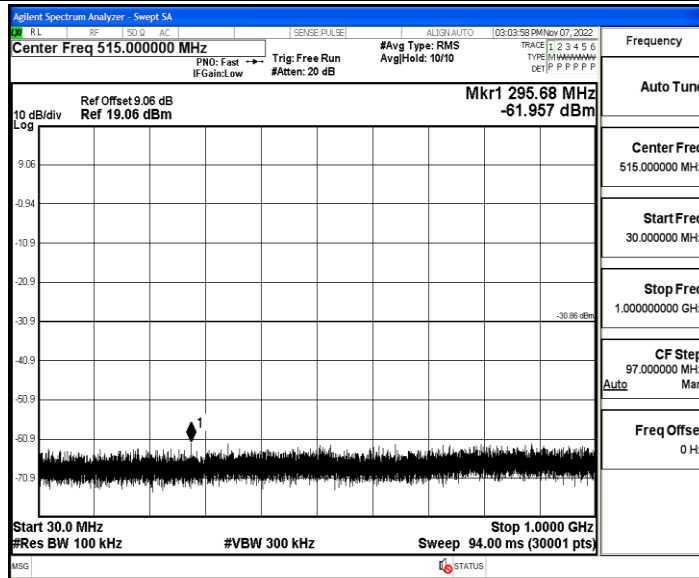
11B\_Ant1\_2412\_1000~26500



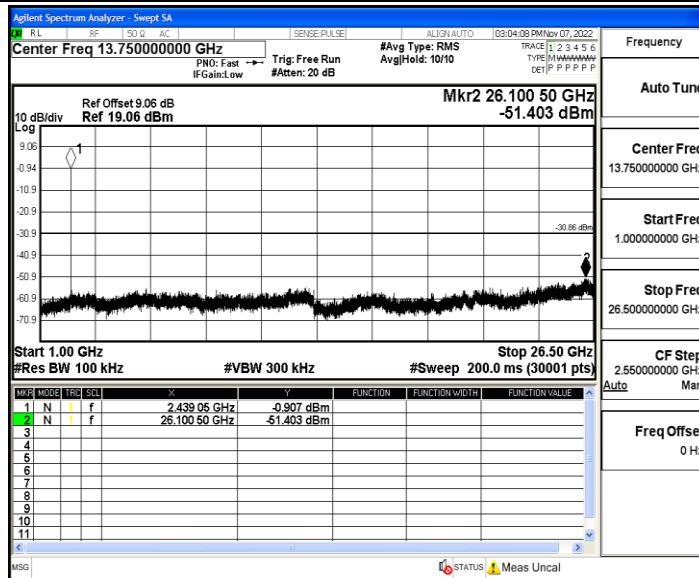
11B\_Ant1\_2437\_0~Reference



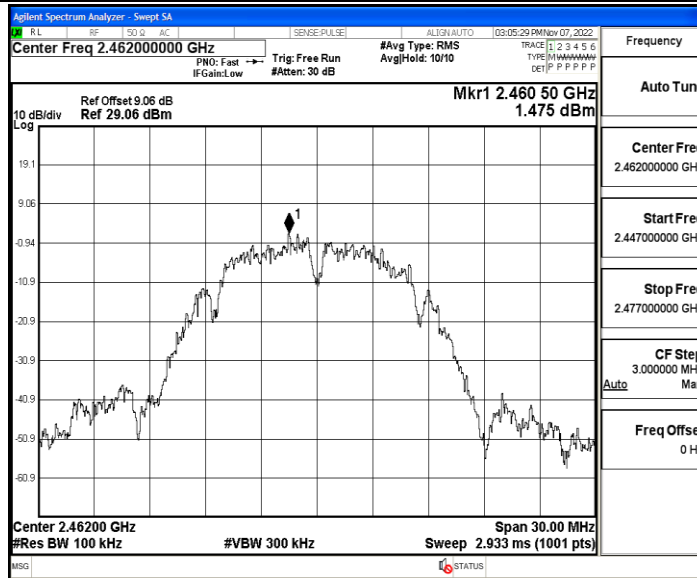
11B\_Ant1\_2437\_30~1000



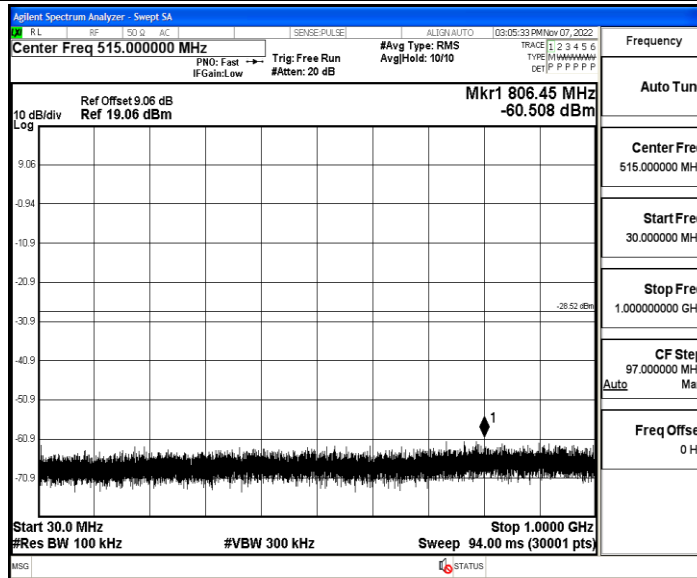
11B\_Ant1\_2437\_1000~26500



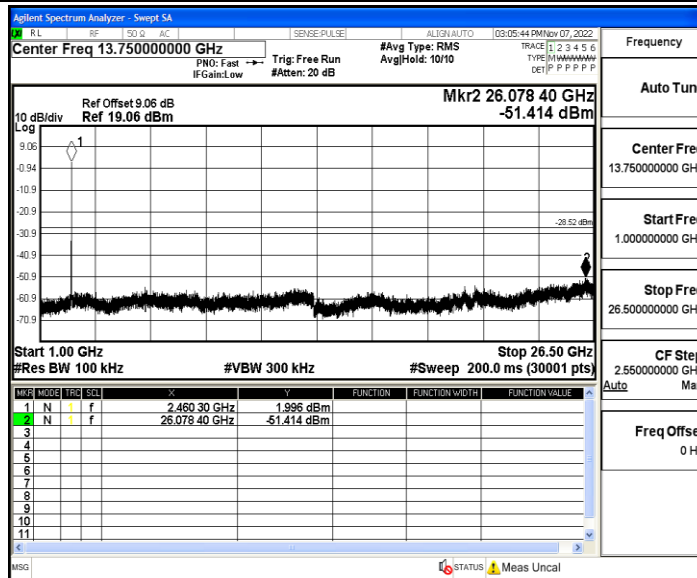
11B\_Ant1\_2462\_0~Reference



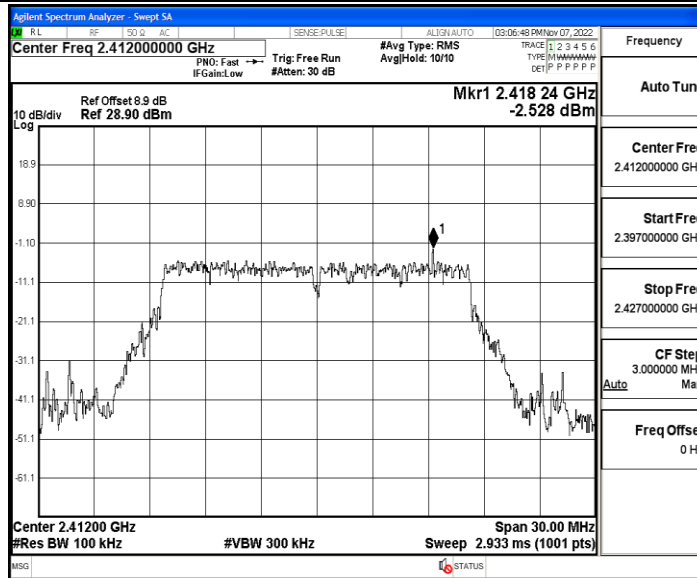
11B\_Ant1\_2462\_30~1000



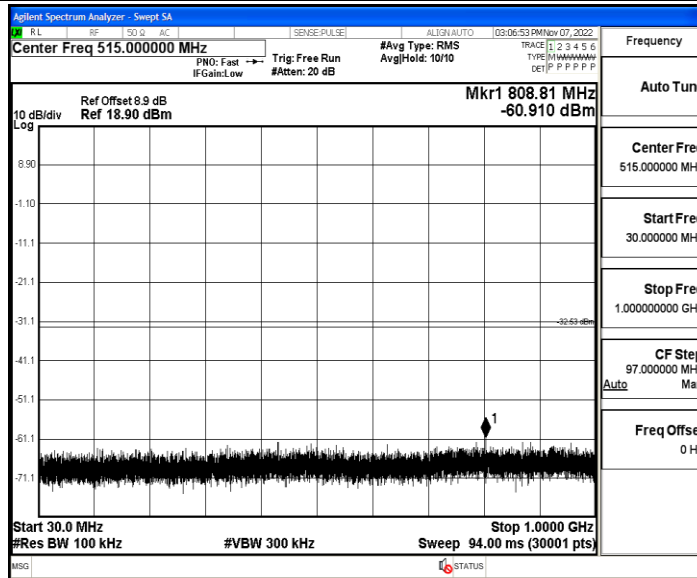
11B\_Ant1\_2462\_1000~26500



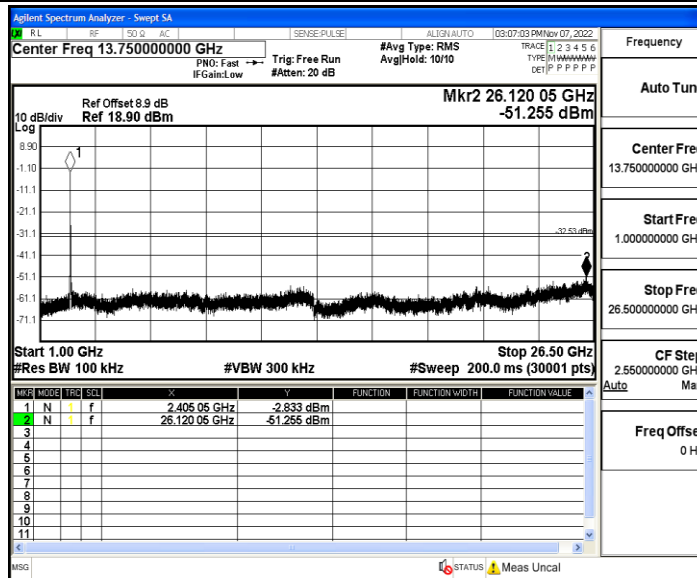
11G\_Ant1\_2412\_0~Reference



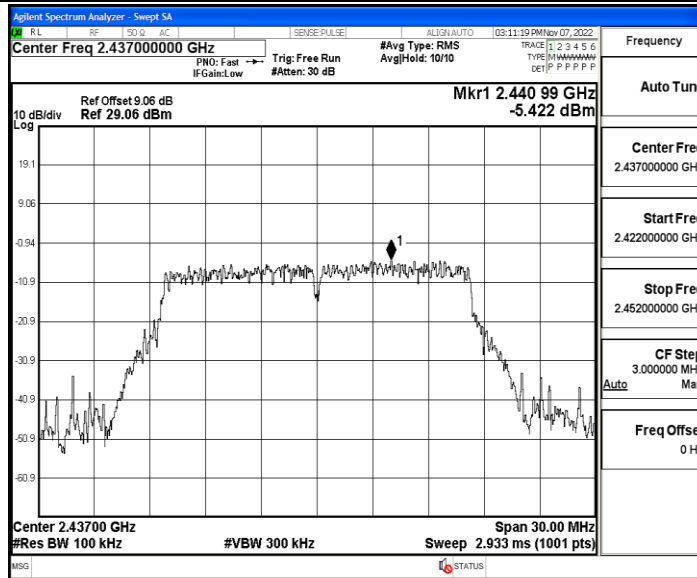
11G\_Ant1\_2412\_30~1000



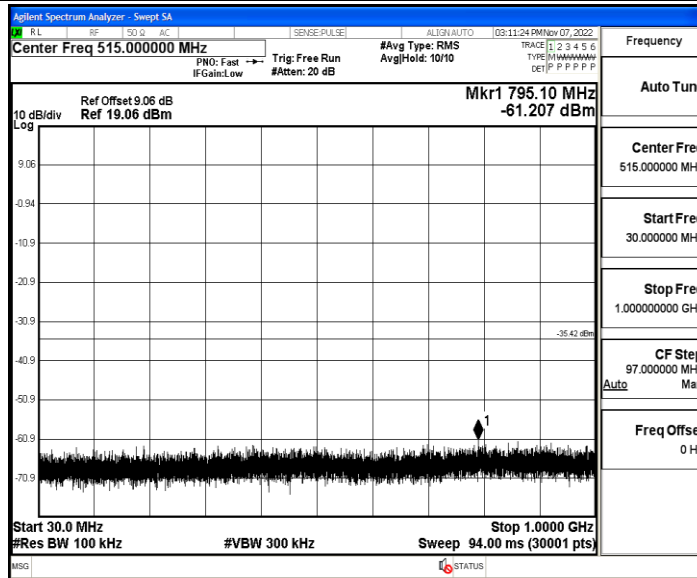
11G\_Ant1\_2412\_1000~26500



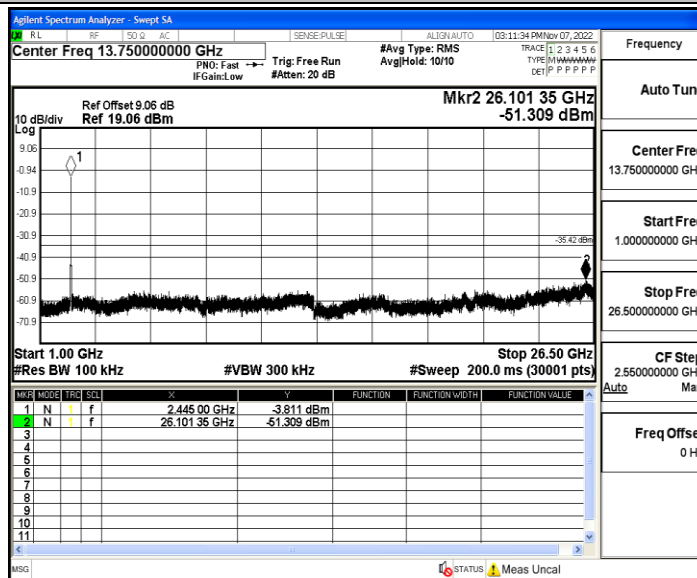
11G\_Ant1\_2437\_0~Reference



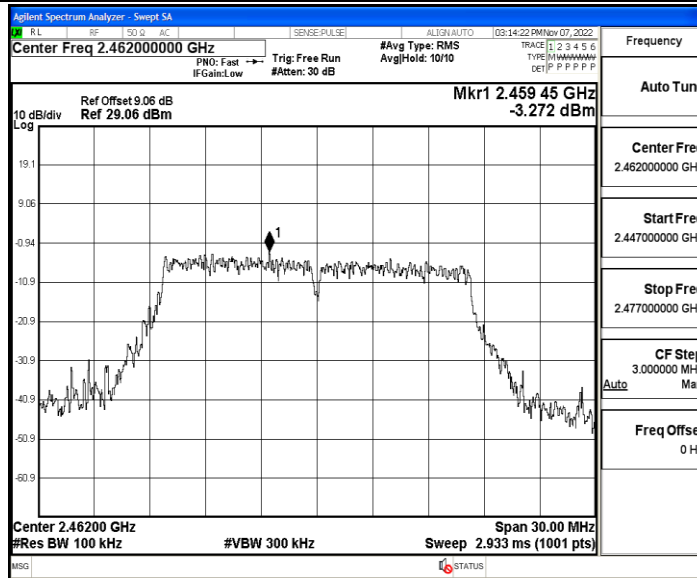
11G\_Ant1\_2437\_30~1000



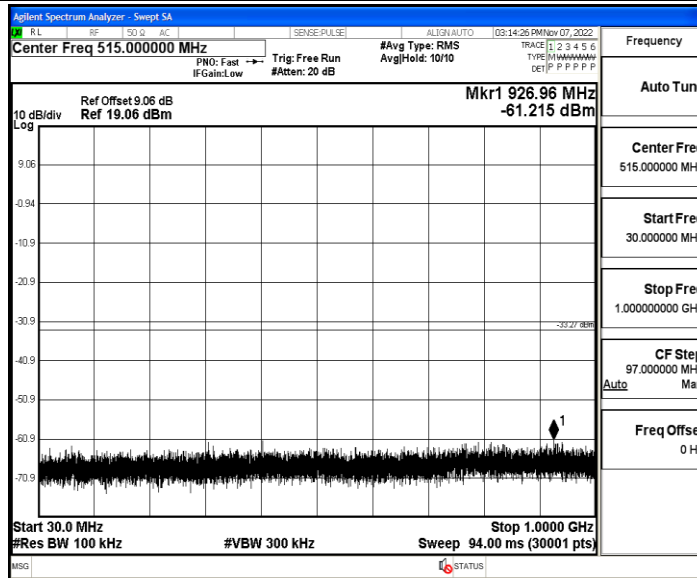
11G\_Ant1\_2437\_1000~26500



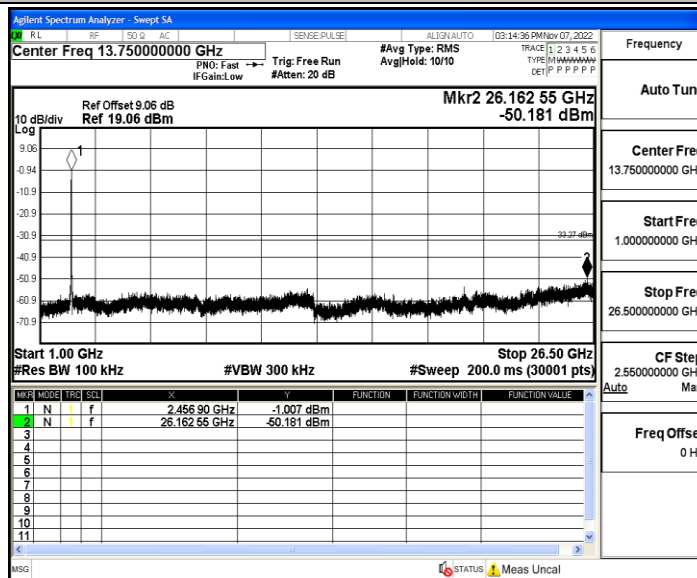
11G\_Ant1\_2462\_0~Reference



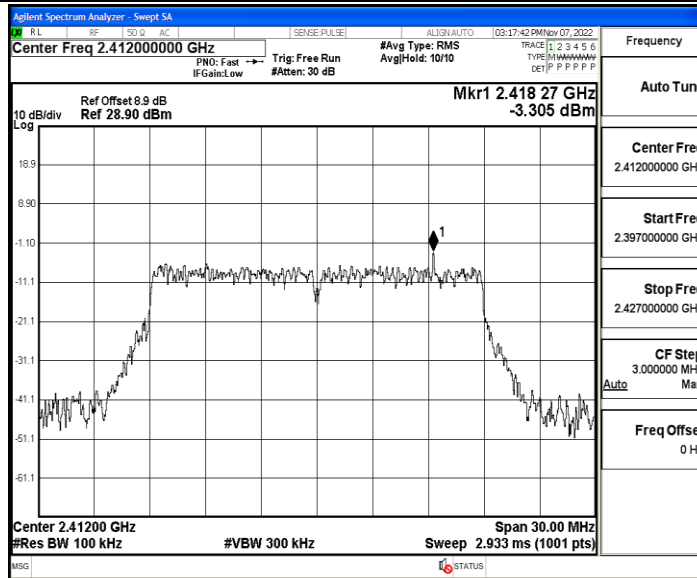
11G\_Ant1\_2462\_30~1000



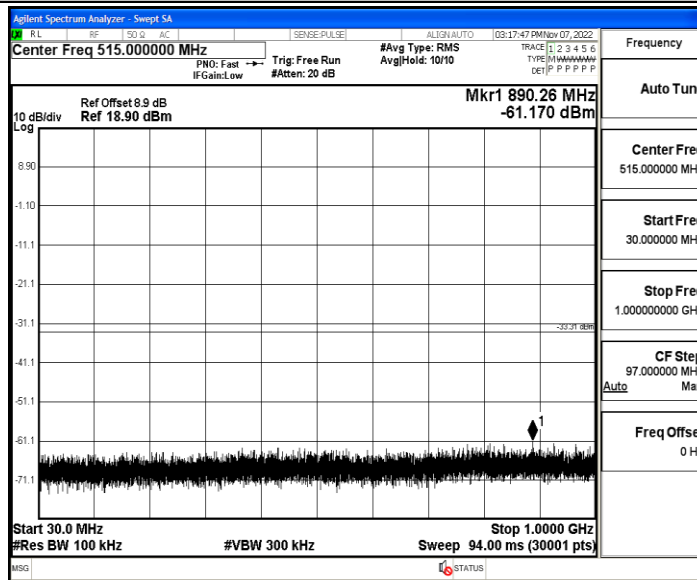
11G\_Ant1\_2462\_1000~26500



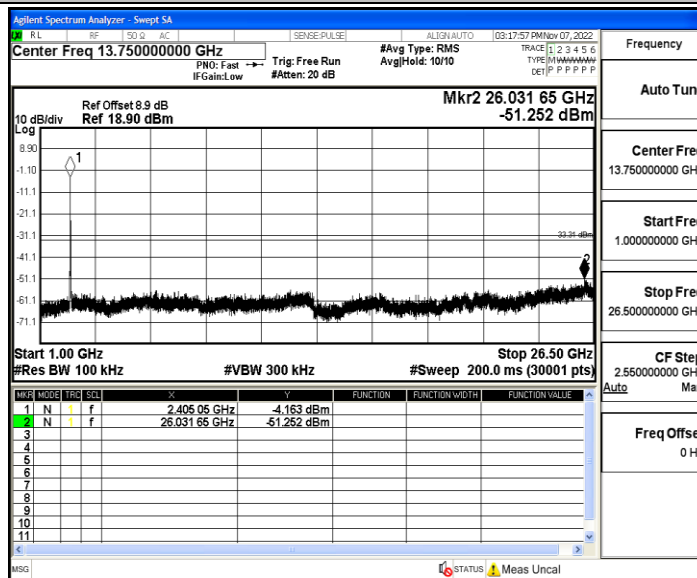
11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000

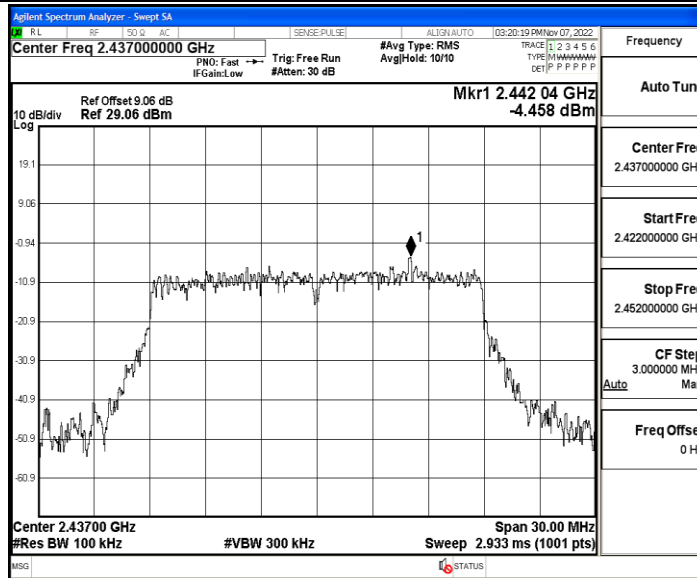


11N20SISO\_Ant1\_2412\_1000~26500

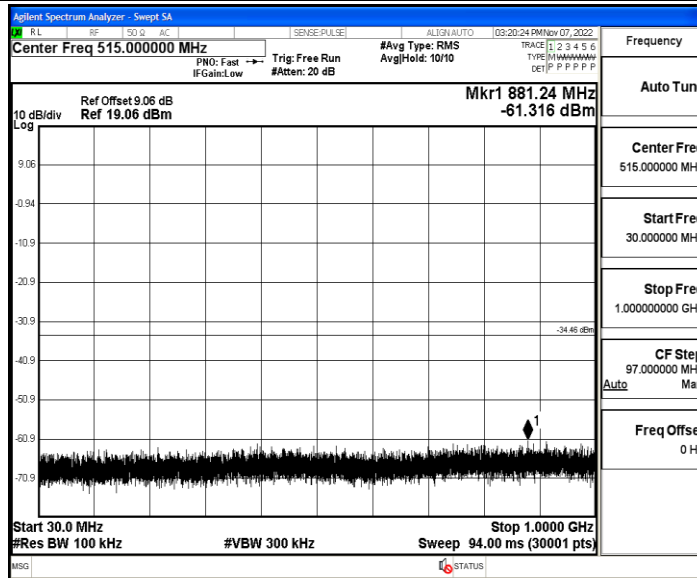


11N20SISO\_Ant1\_2437\_0~Reference

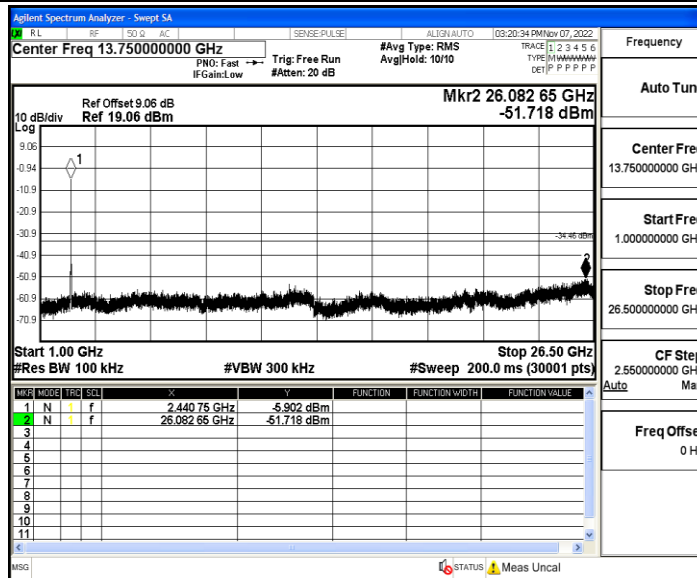




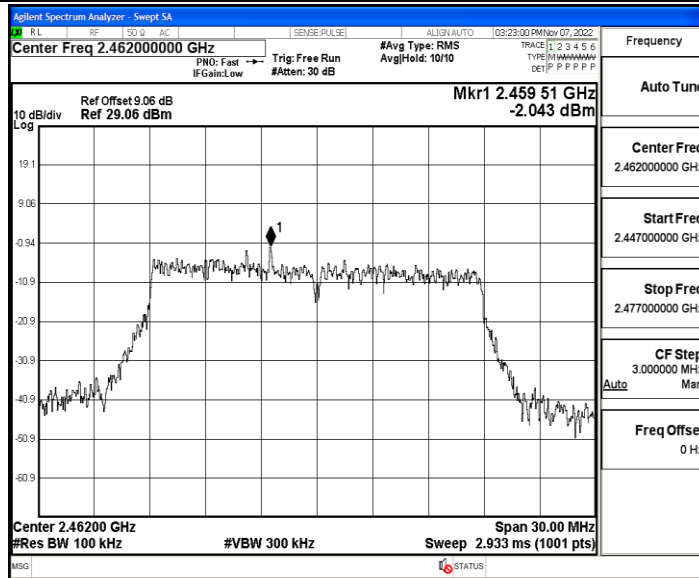
11N20SISO\_Ant1\_2437\_30~1000



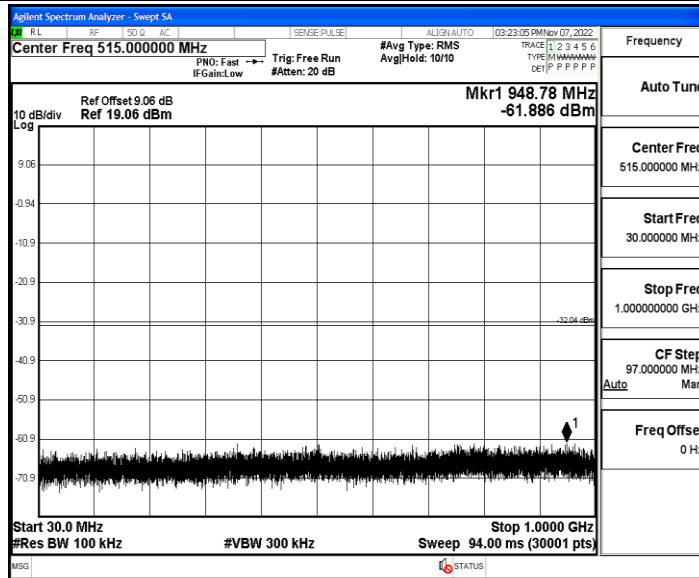
11N20SISO\_Ant1\_2437\_1000~26500



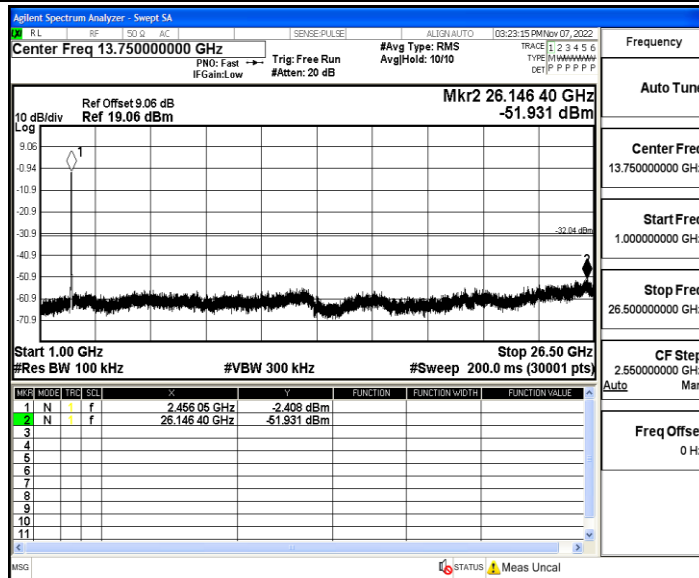
11N20SISO\_Ant1\_2462\_0~Reference



11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500

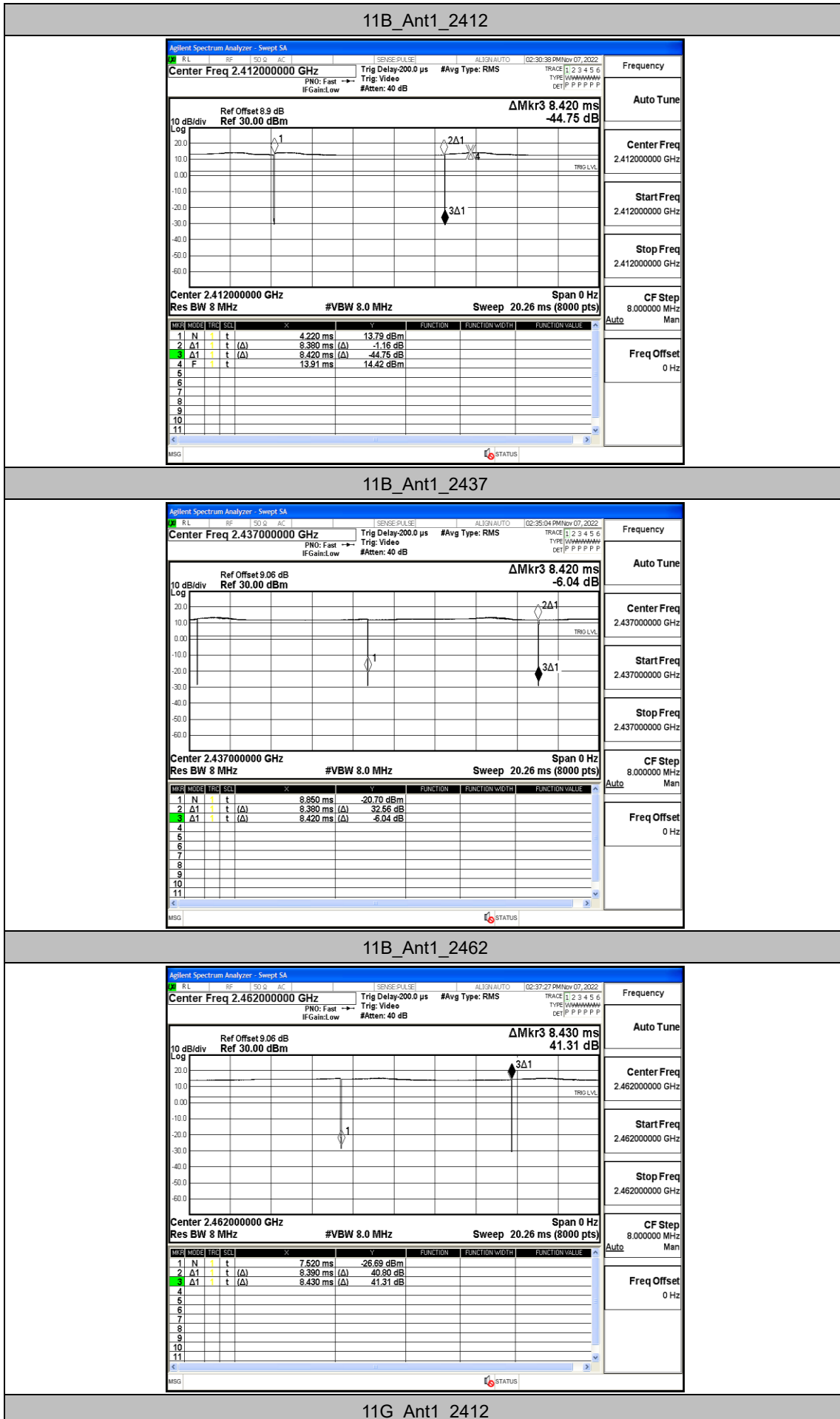


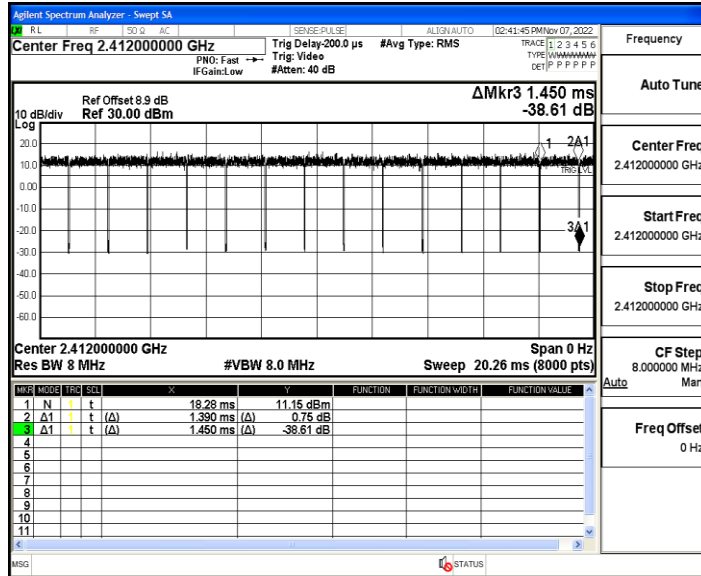
## Appendix G: Duty Cycle

### Test Result

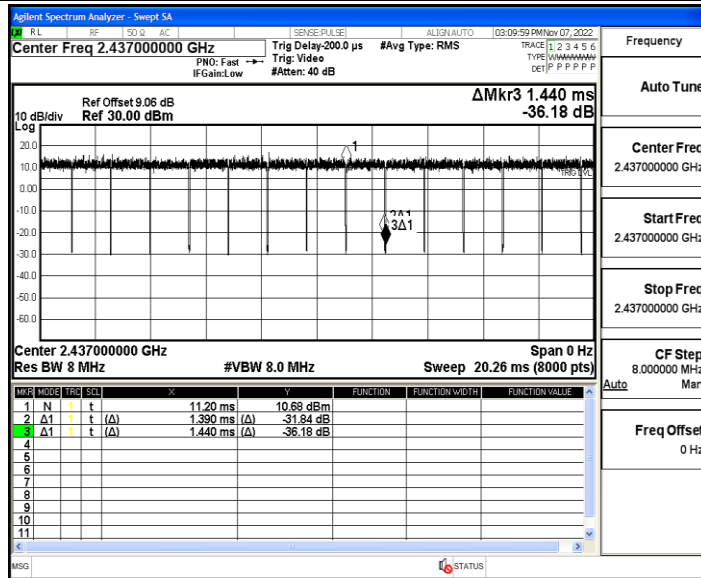
| TestMode  | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T  |
|-----------|---------|---------|----------------------------|--------------------------|----------------|------|
| 11B       | Ant1    | 2412    | 8.38                       | 8.42                     | 99.52          | 0.12 |
|           |         | 2437    | 8.38                       | 8.42                     | 99.52          | 0.12 |
|           |         | 2462    | 8.39                       | 8.43                     | 99.53          | 0.12 |
| 11G       | Ant1    | 2412    | 1.39                       | 1.45                     | 95.86          | 0.72 |
|           |         | 2437    | 1.39                       | 1.44                     | 96.53          | 0.72 |
|           |         | 2462    | 1.39                       | 1.45                     | 95.86          | 0.72 |
| 11N20SISO | Ant1    | 2412    | 1.30                       | 1.36                     | 95.59          | 0.77 |
|           |         | 2437    | 1.29                       | 1.36                     | 94.85          | 0.78 |
|           |         | 2462    | 1.30                       | 1.35                     | 96.30          | 0.77 |

Test Graphs

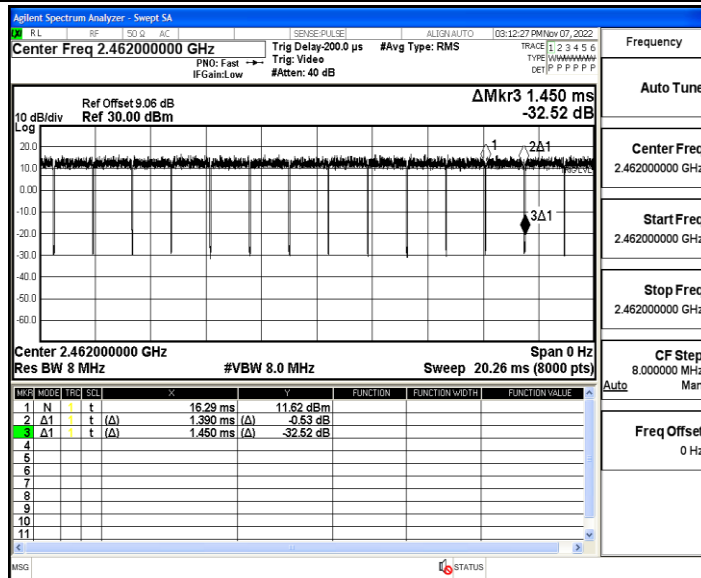




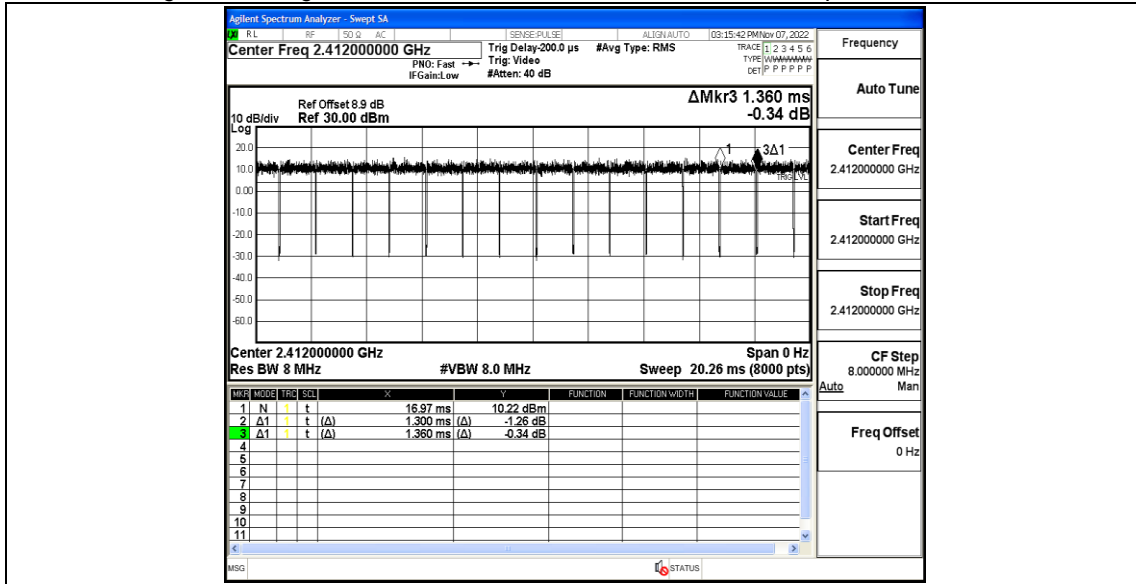
11G\_Ant1\_2437



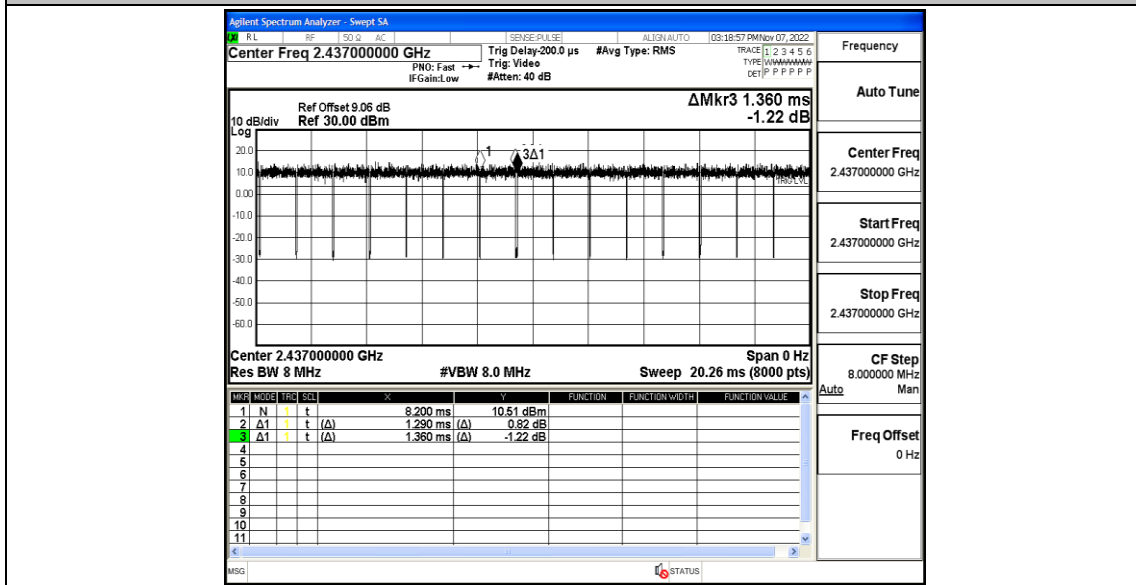
11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

