

## Appendix A

### RF Test Data for 2.4GWIFI (Conducted Measurement)

**Product Name: Dashcam**

**Test Model: C6 Pro**

#### Environmental Conditions

|                    |              |
|--------------------|--------------|
| Temperature:       | 24.1°C       |
| Relative Humidity: | 53.2%        |
| ATM Pressure:      | 100.0 kPa    |
| Test Engineer:     | Zhang Hai    |
| Supervised by:     | Fengliu Tang |

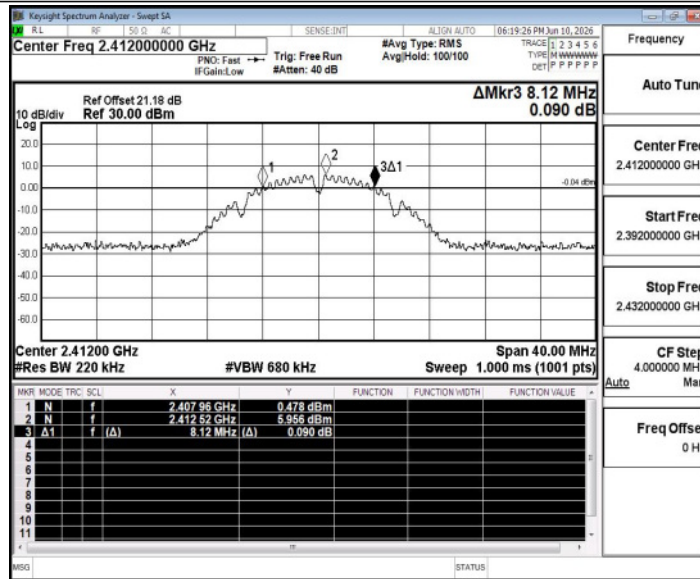
## A.1 6dB Bandwidth

### Test Result

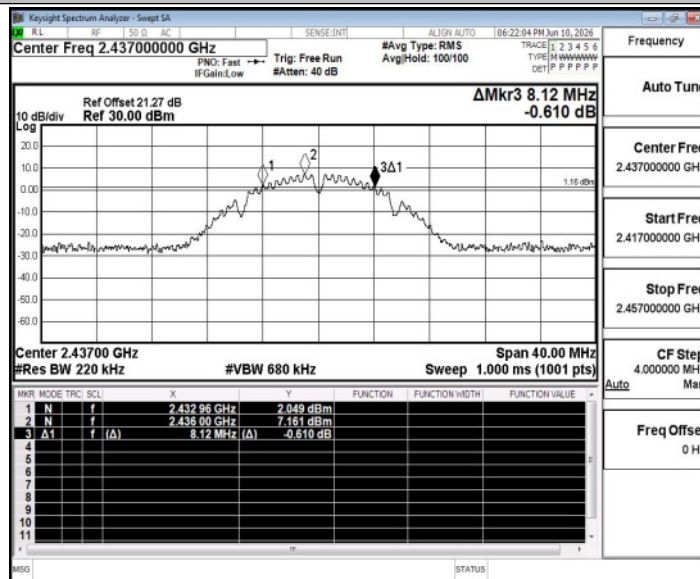
| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.120        | 2407.960 | 2416.080 | 0.5        | PASS    |
|           |         | 2437           | 8.120        | 2432.960 | 2441.080 | 0.5        | PASS    |
|           |         | 2462           | 8.120        | 2457.960 | 2466.080 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 16.080       | 2403.920 | 2420.000 | 0.5        | PASS    |
|           |         | 2437           | 15.880       | 2428.960 | 2444.840 | 0.5        | PASS    |
|           |         | 2462           | 16.080       | 2453.960 | 2470.040 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 16.960       | 2403.480 | 2420.440 | 0.5        | PASS    |
|           |         | 2437           | 17.120       | 2428.480 | 2445.600 | 0.5        | PASS    |
|           |         | 2462           | 16.960       | 2453.400 | 2470.360 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422           | 34.080       | 2405.040 | 2439.120 | 0.5        | PASS    |
|           |         | 2437           | 36.000       | 2418.840 | 2454.840 | 0.5        | PASS    |
|           |         | 2452           | 35.600       | 2434.000 | 2469.600 | 0.5        | PASS    |

## Test Graphs

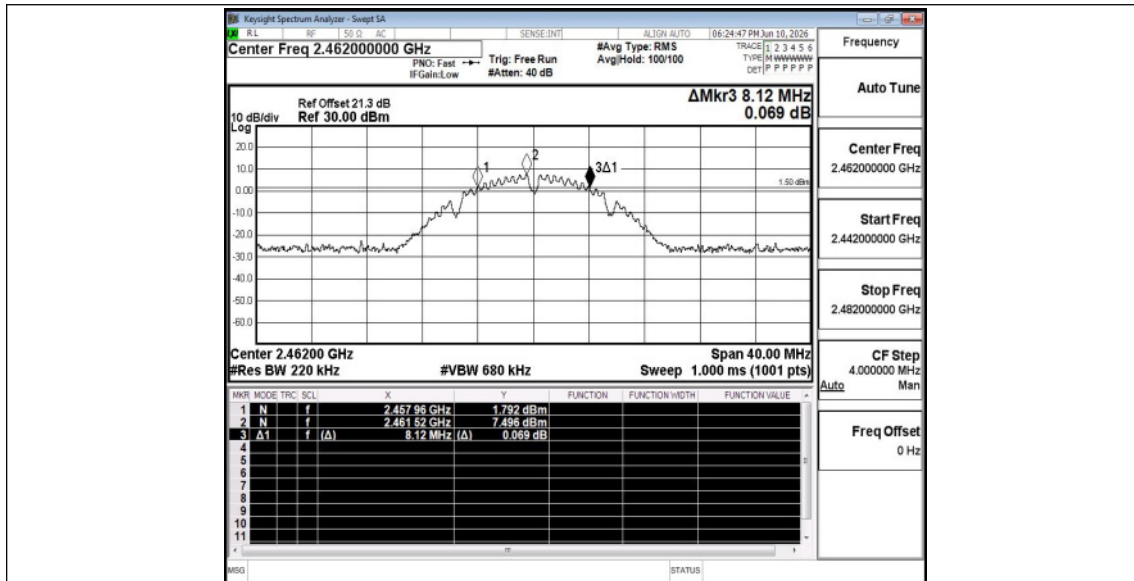
11B\_Ant1\_2412



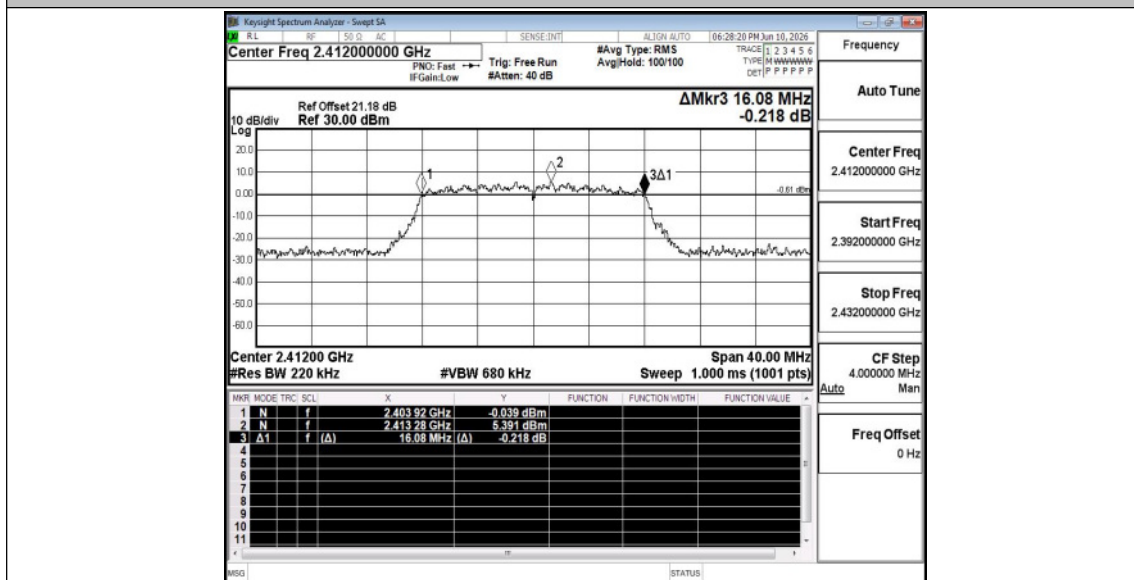
11B\_Ant1\_2437



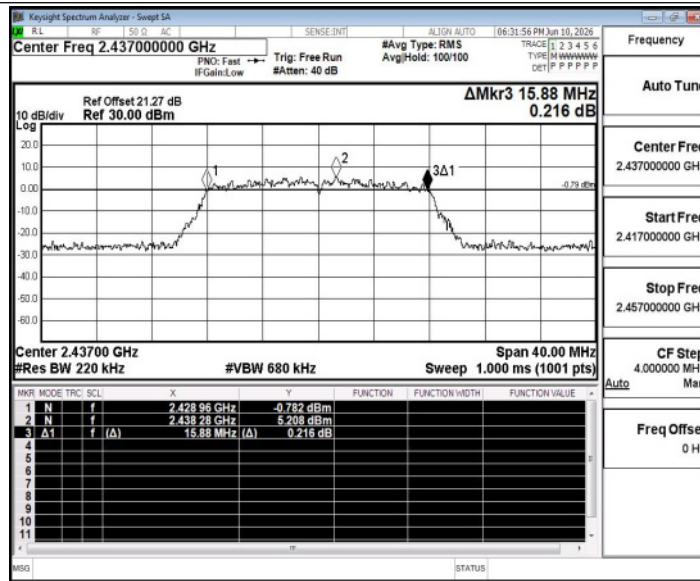
11B\_Ant1\_2462



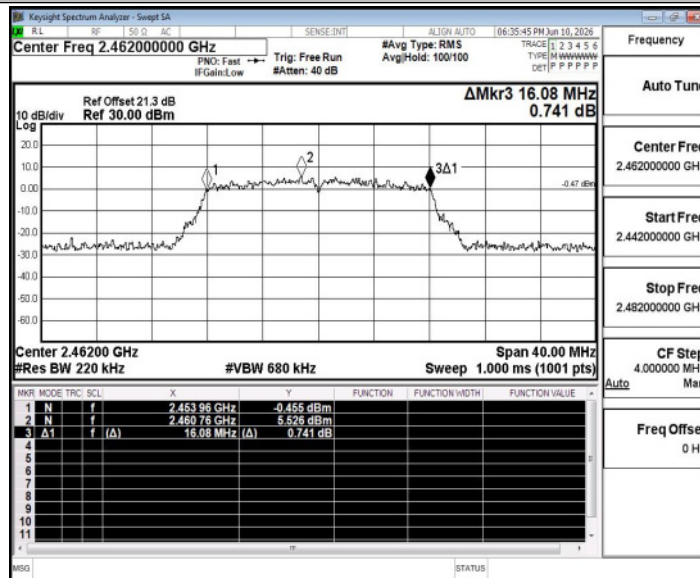
11G\_Ant1\_2412



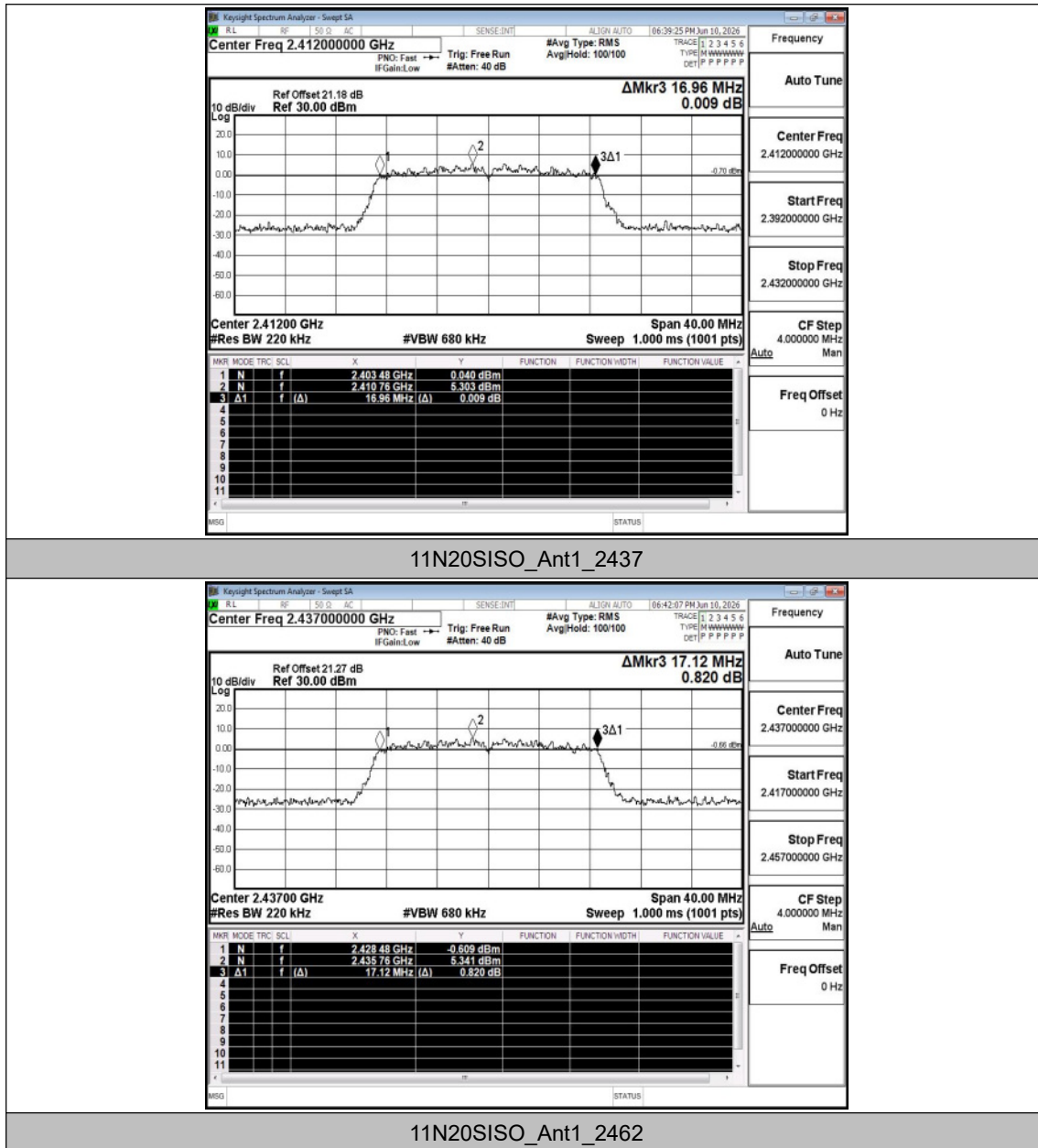
11G\_Ant1\_2437

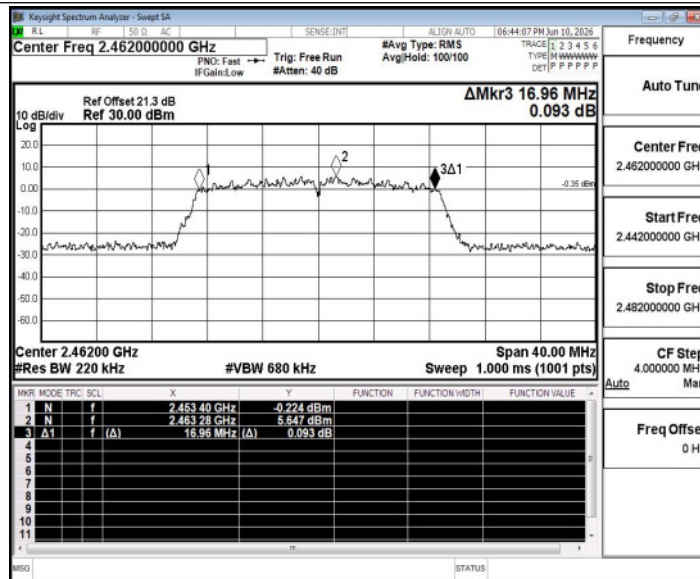


11G\_Ant1\_2462

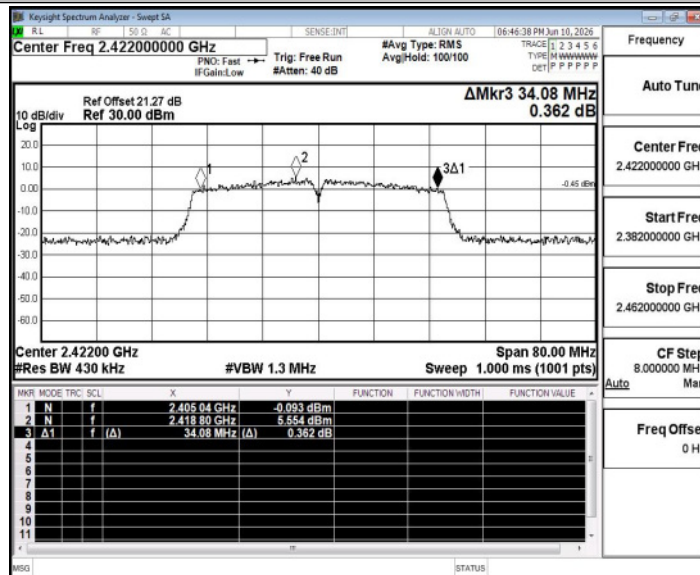


11N20SISO\_Ant1\_2412

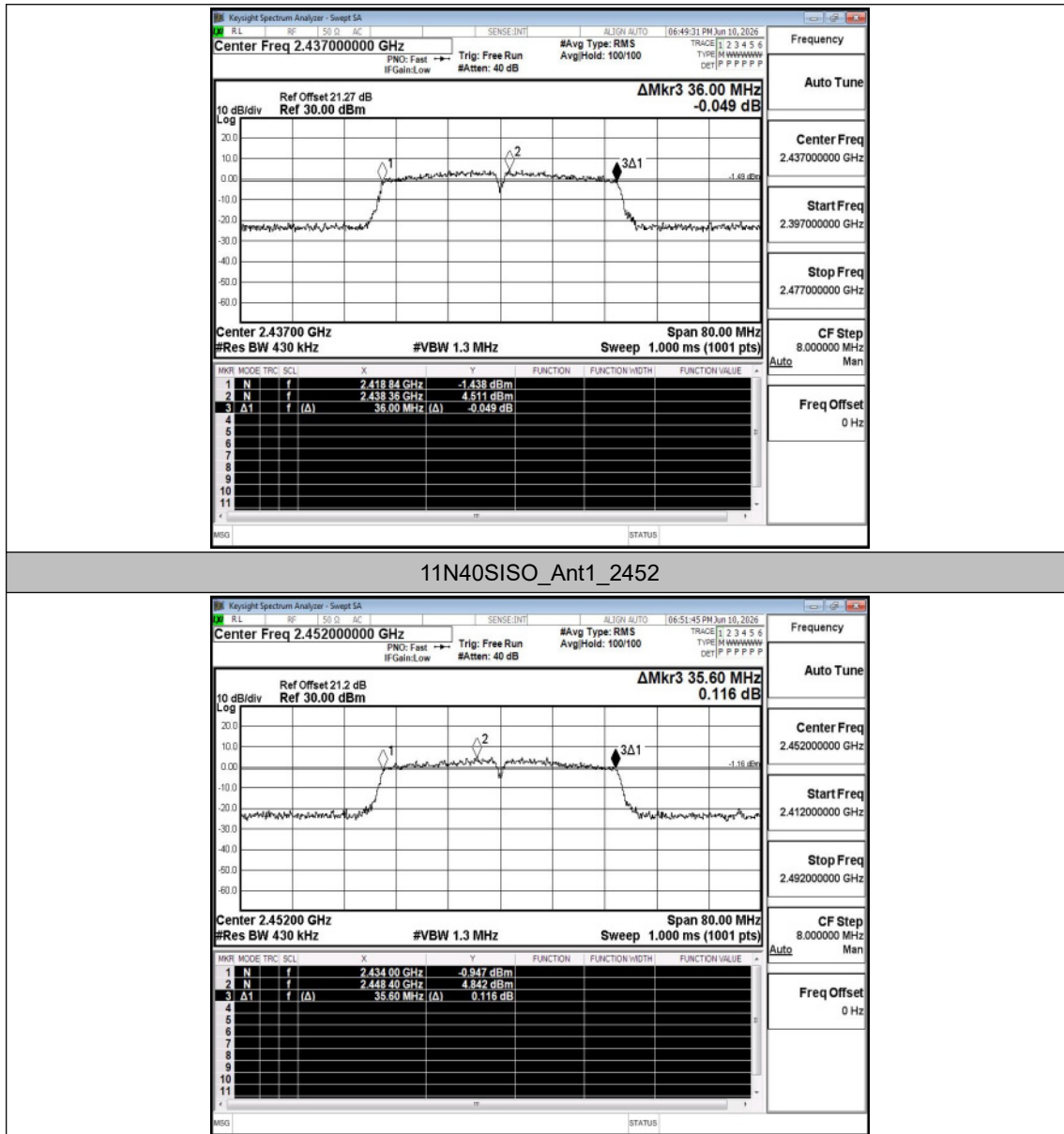




11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



## A.2 Maximum Average conducted output power

### Test Result Average

| TestMode  | Antenna | Frequency [MHz] | Measured Power | DC Factor [dB] | AV Power [dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|-----------------|----------------|----------------|----------------|----------------------|---------|
| 11B       | Ant1    | 2412            | 13.62          | 0.24           | 13.86          | ≤30.00               | PASS    |
|           |         | 2437            | 14.66          | 0.24           | 14.90          | ≤30.00               | PASS    |
|           |         | 2462            | 14.77          | 0.24           | 15.01          | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412            | 13.27          | 1.63           | 14.90          | ≤30.00               | PASS    |
|           |         | 2437            | 13.32          | 1.63           | 14.95          | ≤30.00               | PASS    |
|           |         | 2462            | 13.32          | 1.35           | 14.67          | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412            | 13.29          | 1.25           | 14.54          | ≤30.00               | PASS    |
|           |         | 2437            | 13.26          | 1.51           | 14.77          | ≤30.00               | PASS    |
|           |         | 2462            | 13.30          | 1.25           | 14.55          | ≤30.00               | PASS    |
| 11N40SISO | Ant1    | 2422            | 12.79          | 1.76           | 14.55          | ≤30.00               | PASS    |
|           |         | 2437            | 12.74          | 1.76           | 14.50          | ≤30.00               | PASS    |
|           |         | 2452            | 12.63          | 3.01           | 15.64          | ≤30.00               | PASS    |

Note :offset=System attenuation +cabel loss

## A.3 Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Measured<br>PSD<br>[dBm/30kHz] | DC<br>Factor<br>[dB] | Result<br>[dBm/30kHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|-----------|---------|----------------|--------------------------------|----------------------|-----------------------|----------------------|---------------------|---------|
| 11B       | Ant1    | 2412           | -7.34                          | 0.24                 | -7.10                 | -17.10               | ≤8.00               | PASS    |
|           |         | 2437           | -6.52                          | 0.24                 | -6.28                 | -16.28               | ≤8.00               | PASS    |
|           |         | 2462           | -6.27                          | 0.24                 | -6.03                 | -16.03               | ≤8.00               | PASS    |
| 11G       | Ant1    | 2412           | -8.14                          | 1.63                 | -6.51                 | -16.51               | ≤8.00               | PASS    |
|           |         | 2437           | -8.51                          | 1.63                 | -6.88                 | -16.88               | ≤8.00               | PASS    |
|           |         | 2462           | -7.54                          | 1.35                 | -6.19                 | -16.19               | ≤8.00               | PASS    |
| 11N20SISO | Ant1    | 2412           | -7.78                          | 1.25                 | -6.53                 | -16.53               | ≤8.00               | PASS    |
|           |         | 2437           | -7.7                           | 1.51                 | -6.19                 | -16.19               | ≤8.00               | PASS    |
|           |         | 2462           | -7.88                          | 1.25                 | -6.63                 | -16.63               | ≤8.00               | PASS    |
| 11N40SISO | Ant1    | 2422           | -10.24                         | 1.76                 | -8.48                 | -18.48               | ≤8.00               | PASS    |
|           |         | 2437           | -9.77                          | 1.76                 | -8.01                 | -18.01               | ≤8.00               | PASS    |
|           |         | 2452           | -10.23                         | 3.01                 | -7.22                 | -17.22               | ≤8.00               | PASS    |

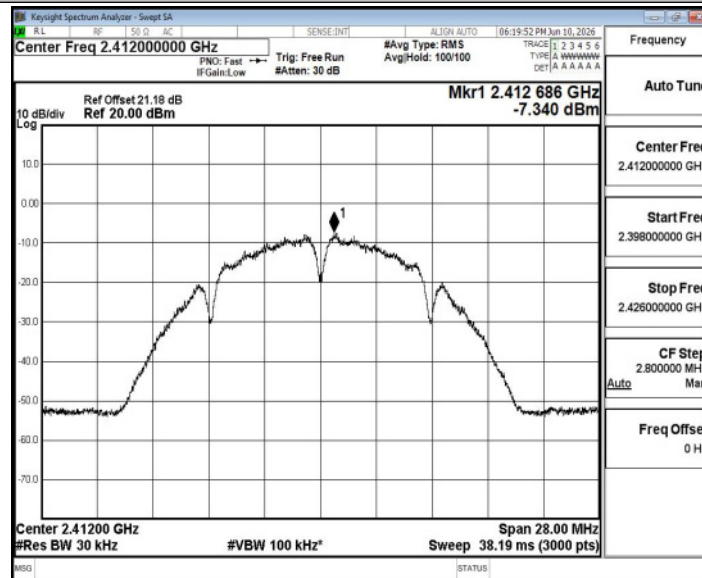
Note :offset=System attenuation +cabel loss

Result[dBm/3kHz]=Result[dBm/30kHz]+10\*Log(3/30)

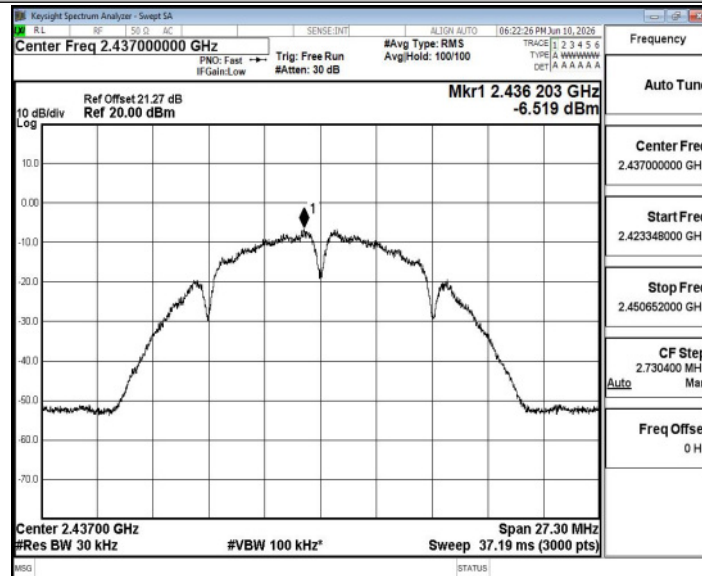
Note :offset=System attenuation +cabal loss

## Test Graphs

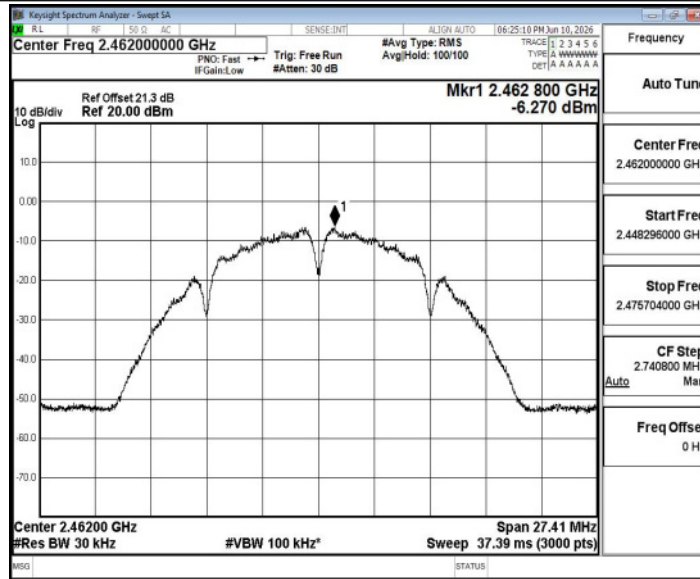
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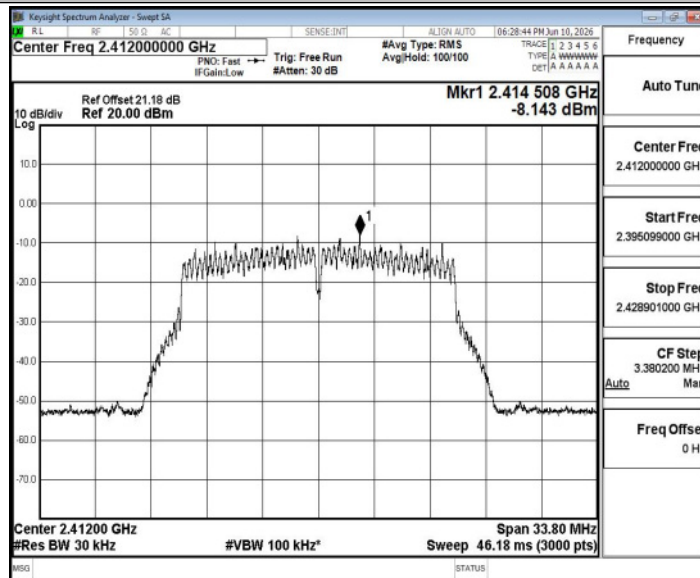
11B\_Ant1\_2437



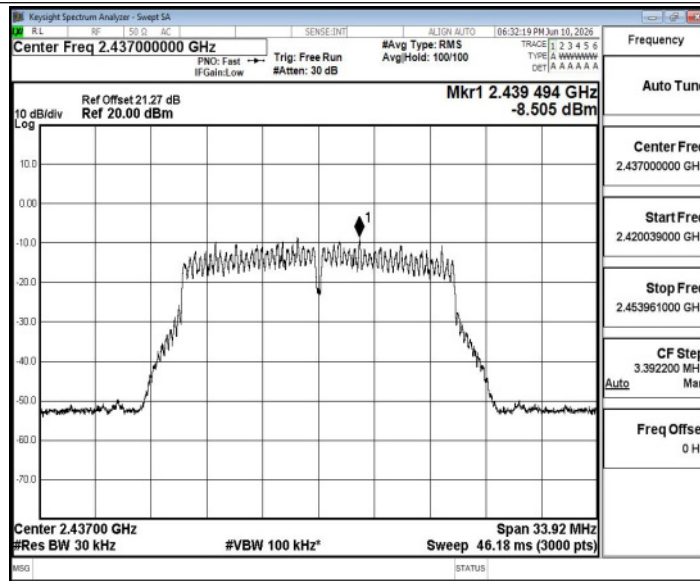
11B\_Ant1\_2462



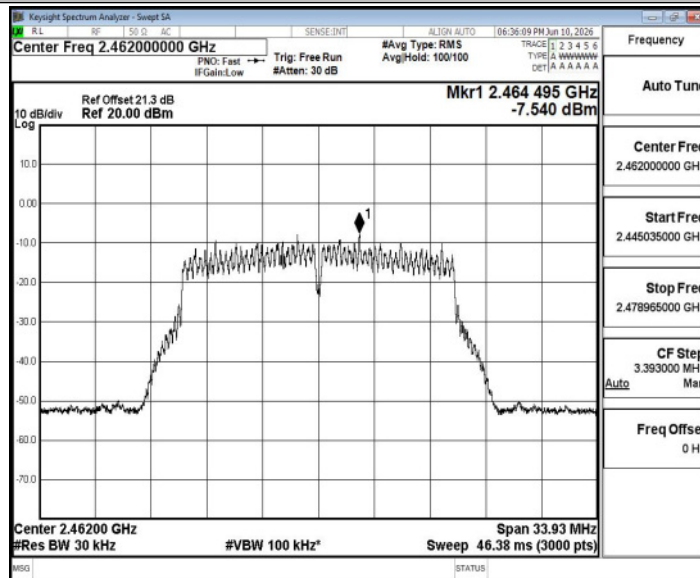
11G\_Ant1\_2412



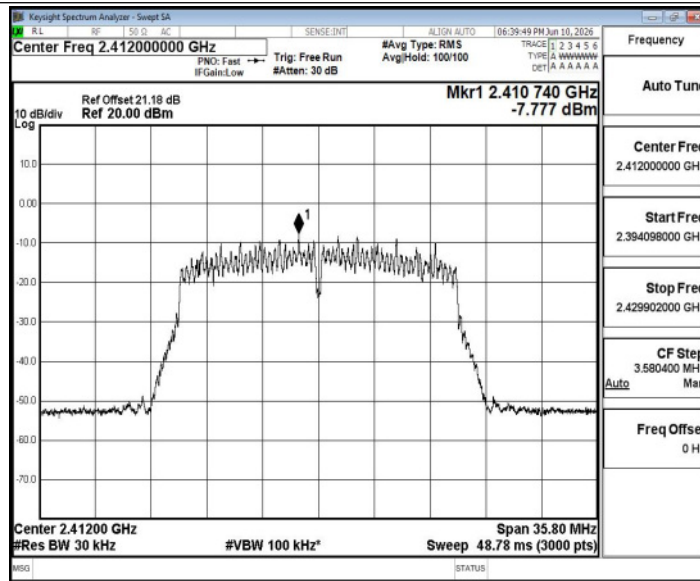
11G\_Ant1\_2437



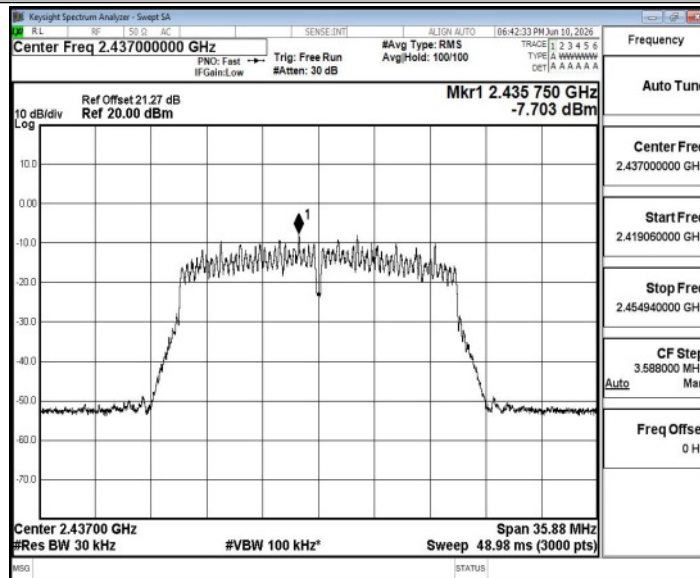
11G\_Ant1\_2462



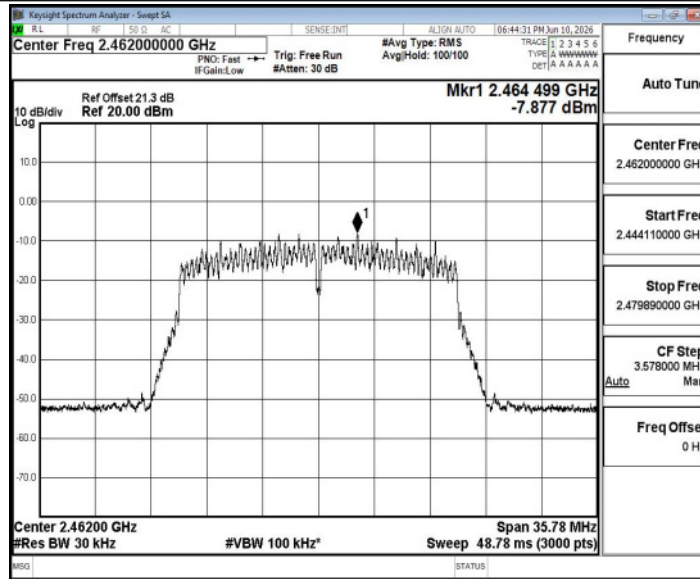
11N20SISO\_Ant1\_2412



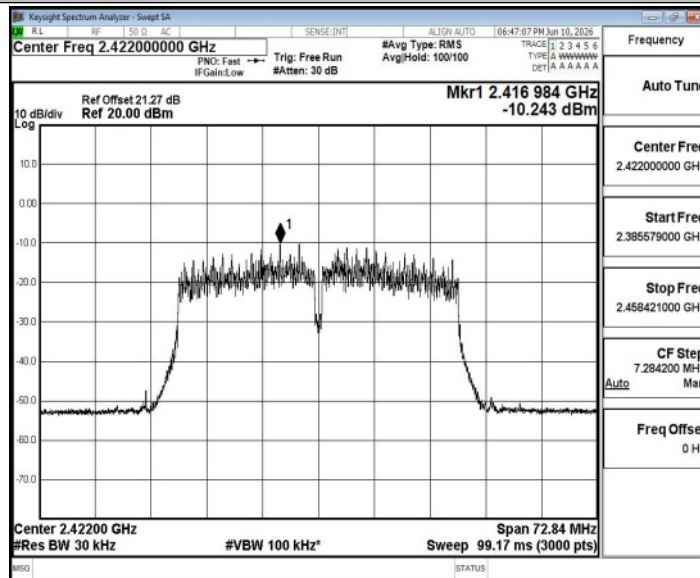
11N20SISO\_Ant1\_2437



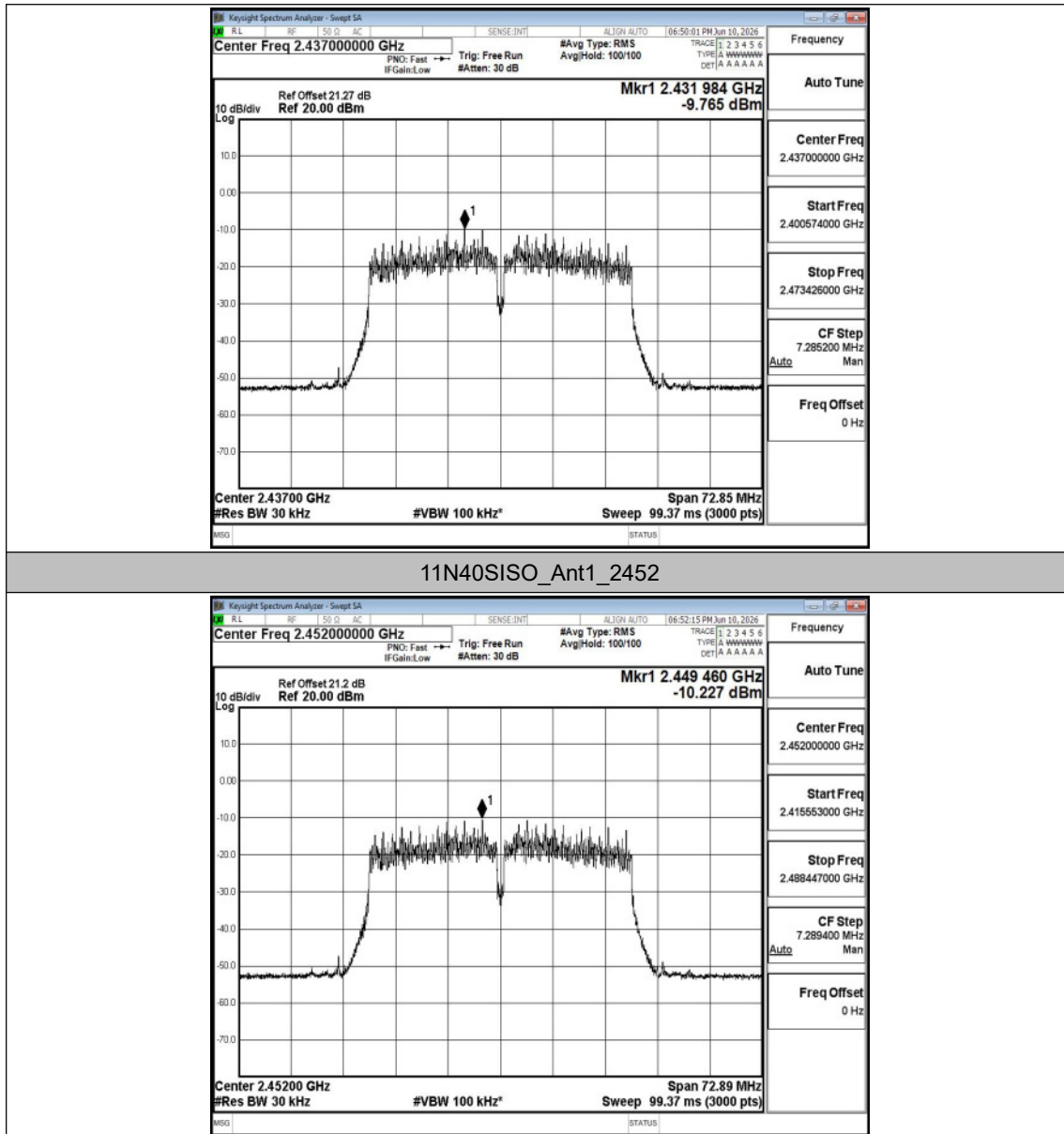
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



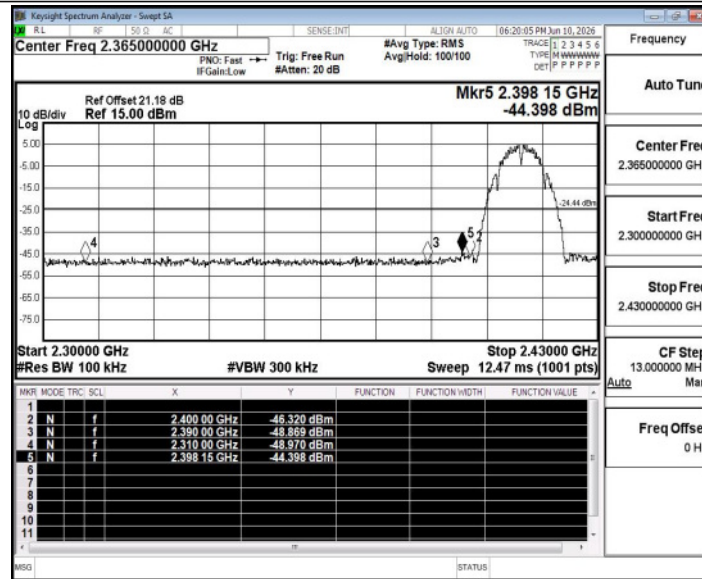
## A.4 Band edge measurements

### Test Result

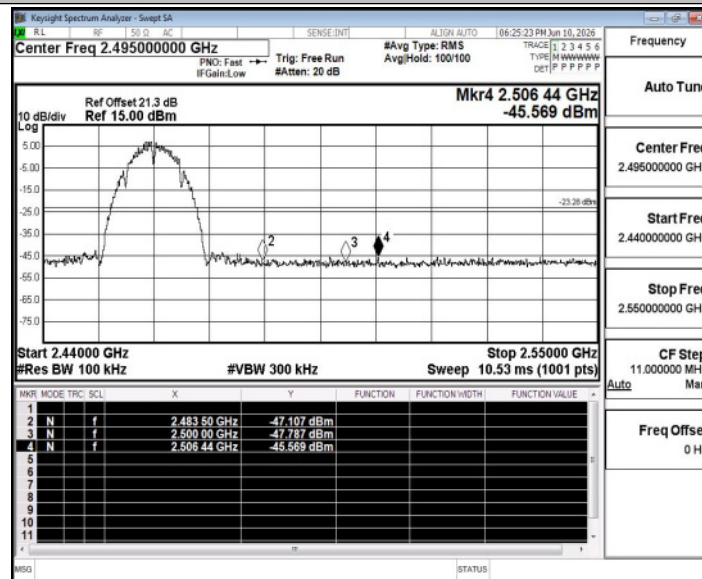
| TestMode  | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low          | 2412           | 5.56          | -44.4       | ≤-24.44    | PASS    |
|           |         | High         | 2462           | 6.72          | -45.57      | ≤-23.28    | PASS    |
| 11G       | Ant1    | Low          | 2412           | 4.68          | -40.48      | ≤-25.32    | PASS    |
|           |         | High         | 2462           | 4.89          | -43.39      | ≤-25.11    | PASS    |
| 11N20SISO | Ant1    | Low          | 2412           | 4.11          | -40.19      | ≤-25.89    | PASS    |
|           |         | High         | 2462           | 4.74          | -45.25      | ≤-25.26    | PASS    |
| 11N40SISO | Ant1    | Low          | 2422           | 1.91          | -35.96      | ≤-28.09    | PASS    |
|           |         | High         | 2452           | 1.79          | -44.79      | ≤-28.21    | PASS    |

## Test Graphs

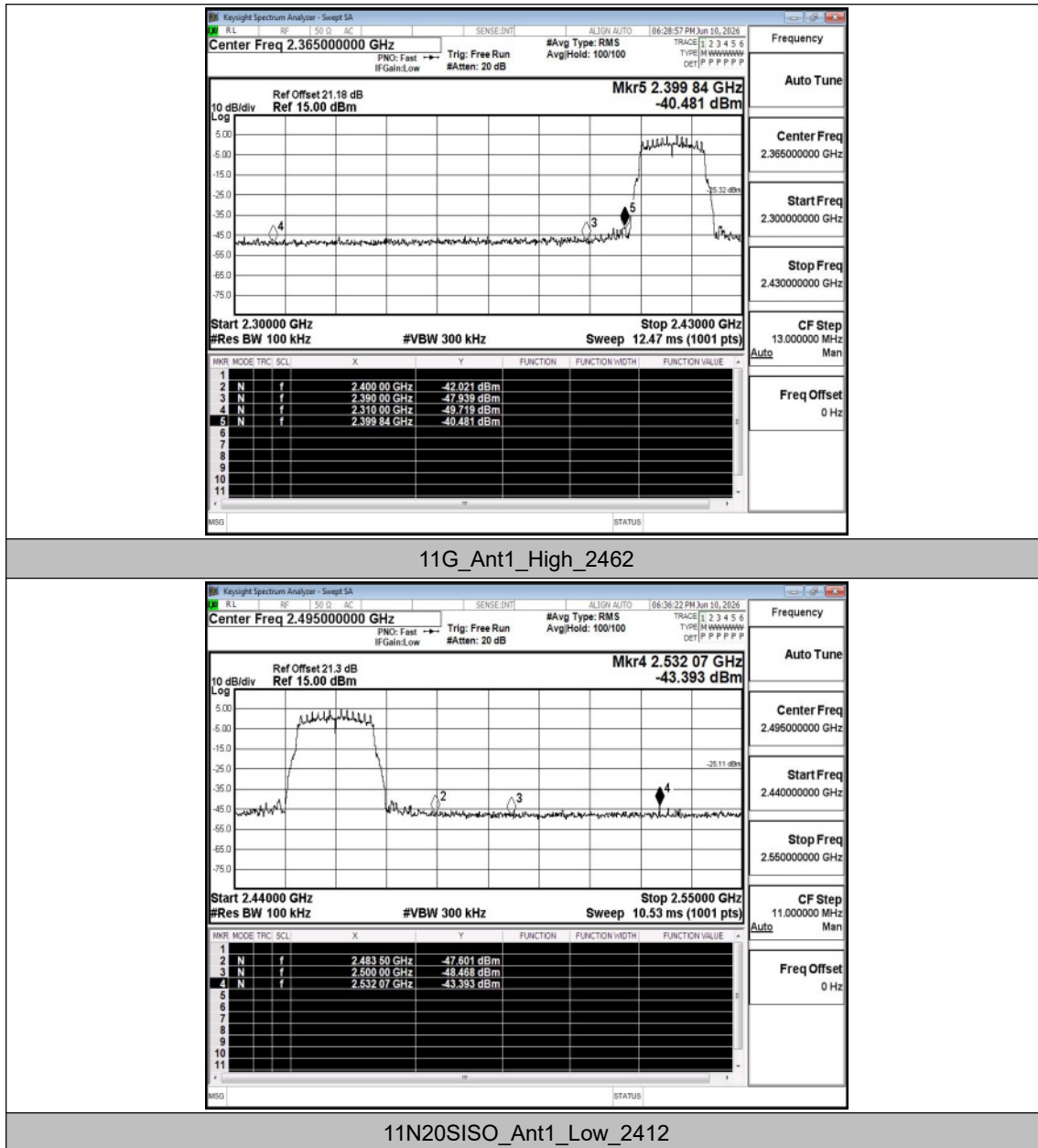
11B\_Ant1\_Low\_2412

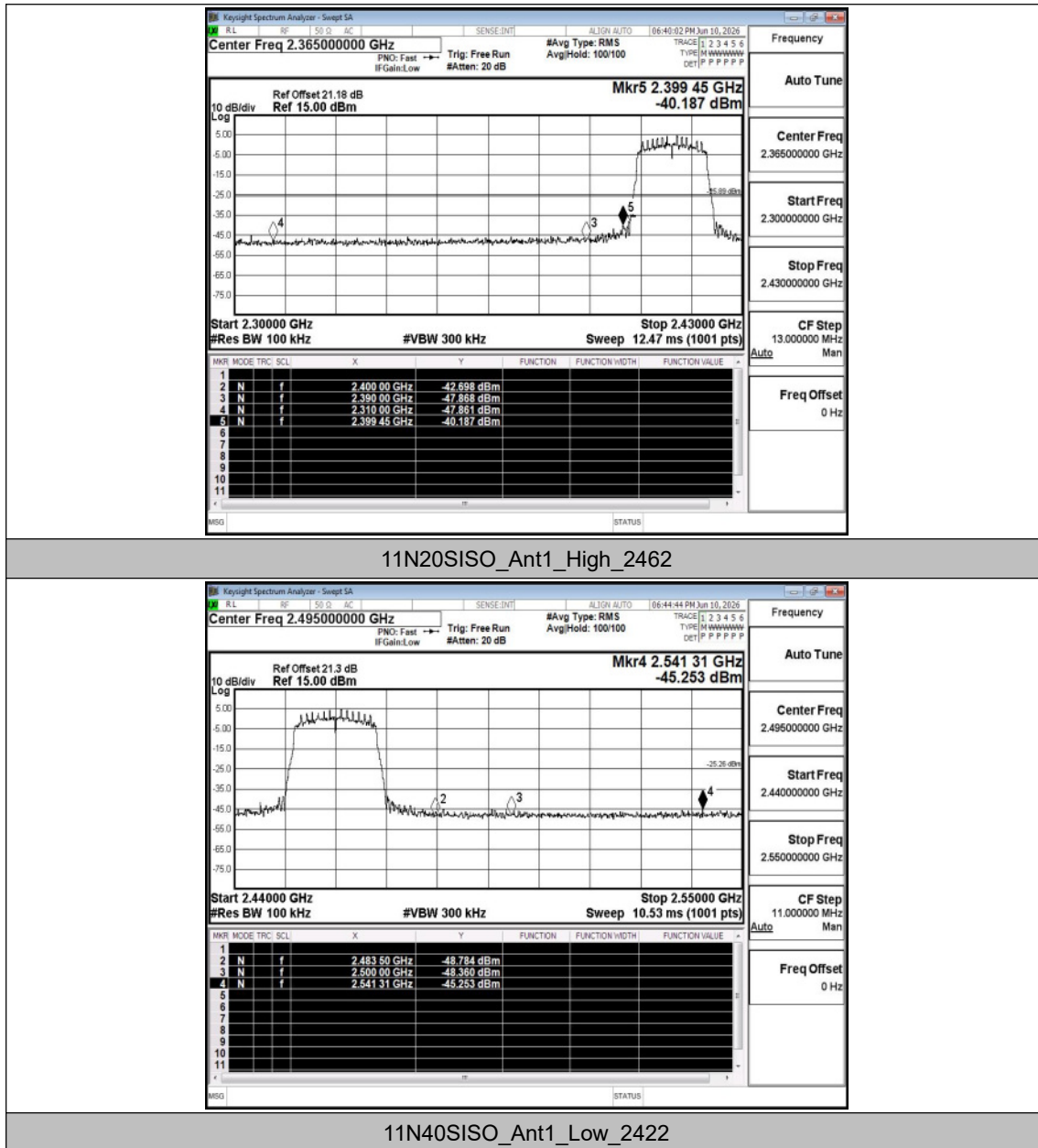


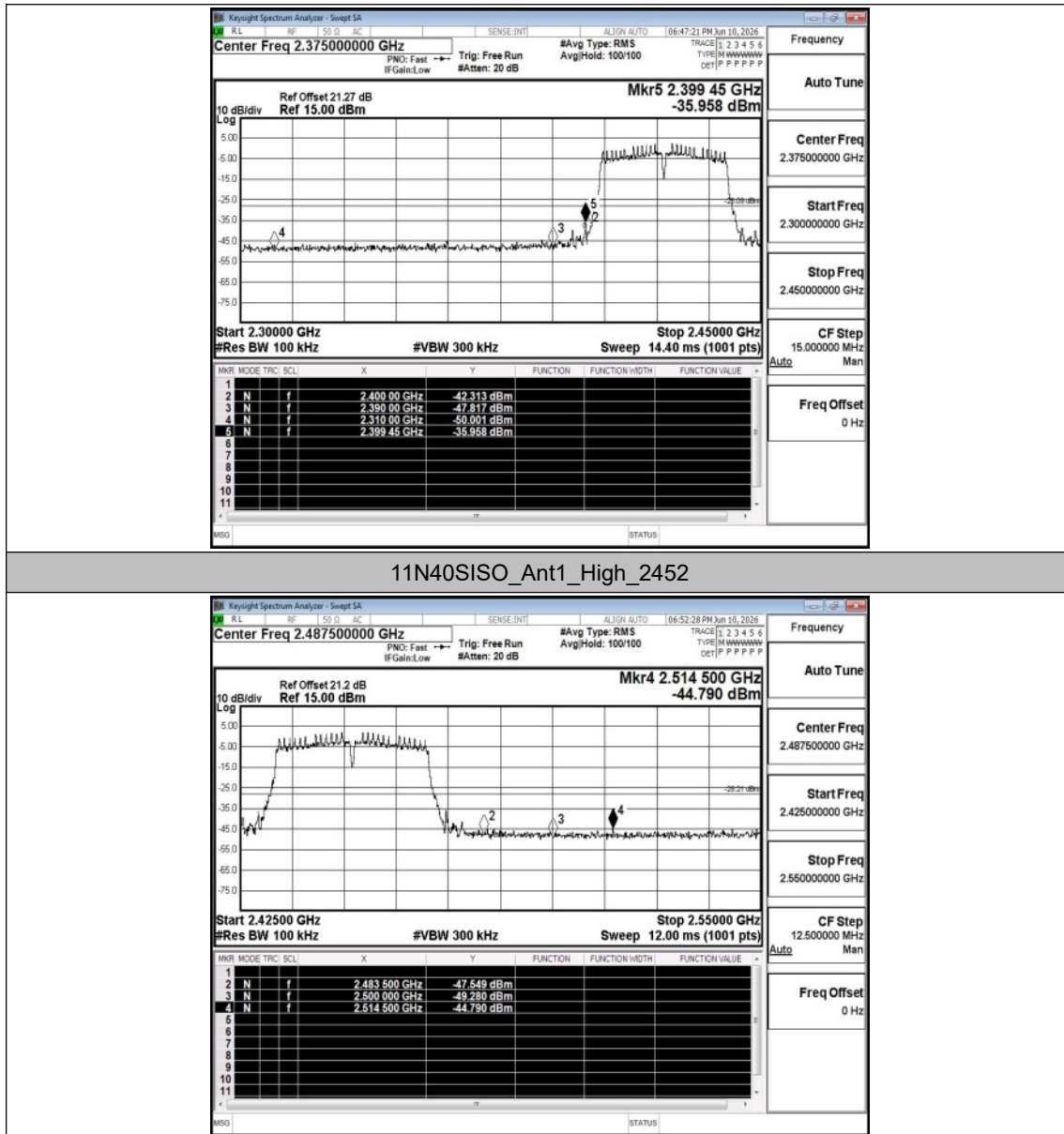
11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412







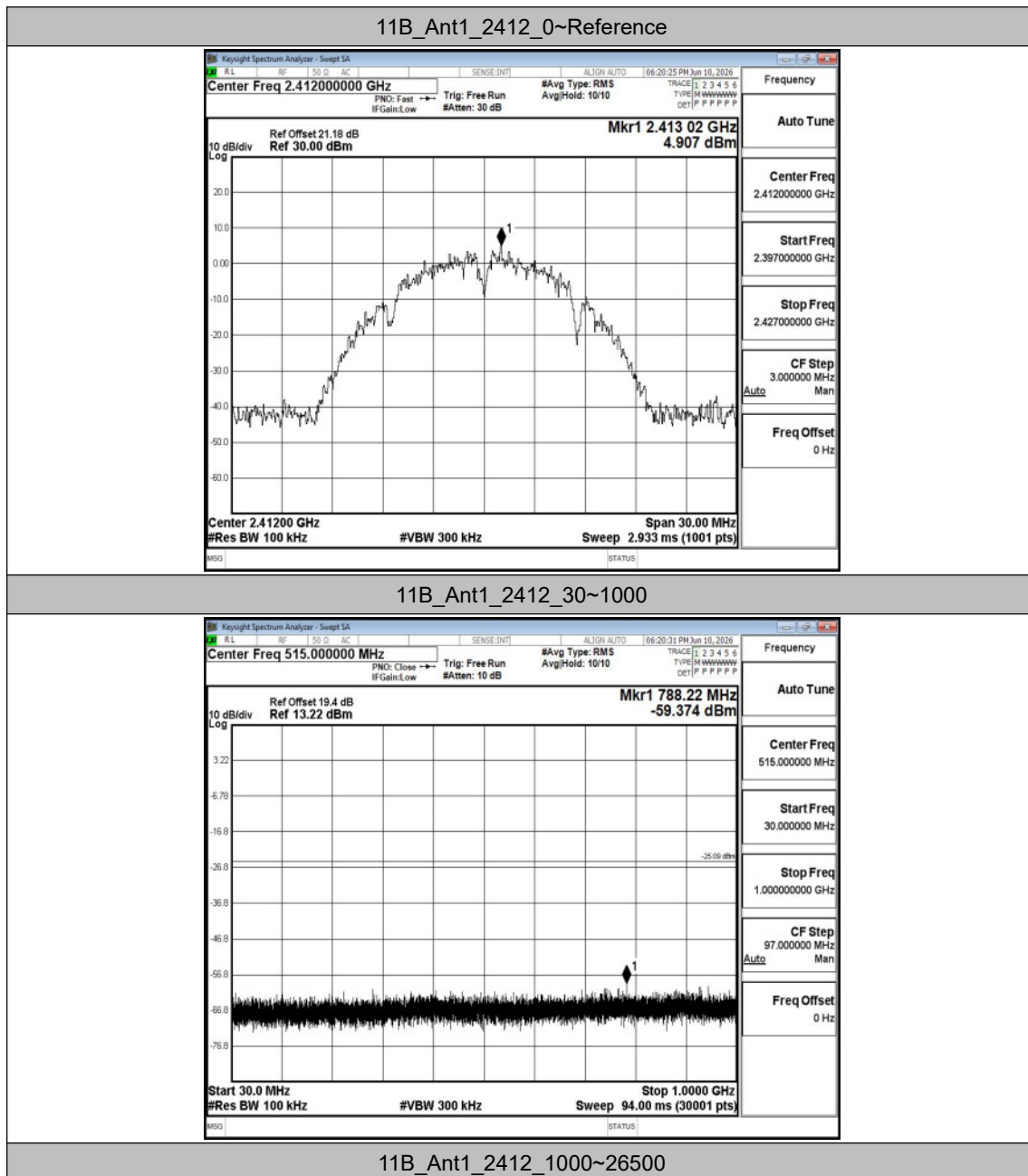
## A.5 Conducted Spurious Emission

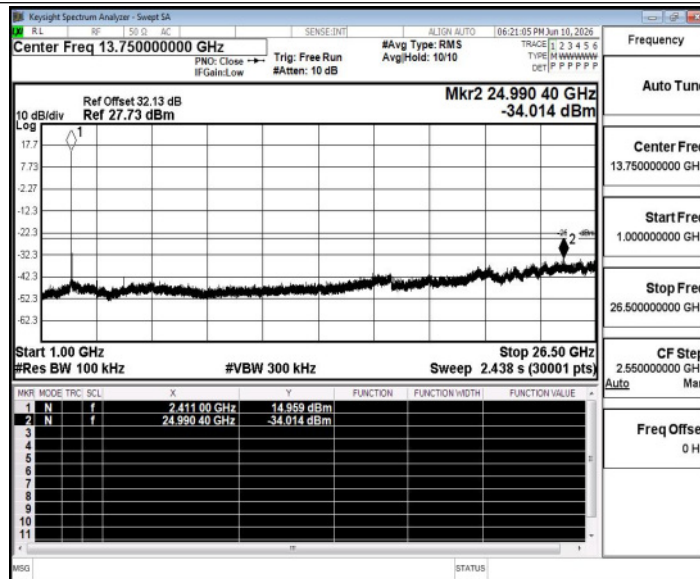
### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 4.91           | 4.91         | ---         | PASS    |
|           |         |                | 30~1000         | 4.91           | -59.37       | ≤-25.09     | PASS    |
|           |         |                | 1000~26500      | 4.91           | -34.01       | ≤-25.09     | PASS    |
|           |         | 2437           | Reference       | 4.55           | 4.55         | ---         | PASS    |
|           |         |                | 30~1000         | 4.55           | -59.6        | ≤-25.45     | PASS    |
|           |         |                | 1000~26500      | 4.55           | -34.37       | ≤-25.45     | PASS    |
|           |         | 2462           | Reference       | 6.51           | 6.51         | ---         | PASS    |
|           |         |                | 30~1000         | 6.51           | -59.73       | ≤-23.49     | PASS    |
|           |         |                | 1000~26500      | 6.51           | -34.19       | ≤-23.49     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 4.45           | 4.45         | ---         | PASS    |
|           |         |                | 30~1000         | 4.45           | -60.77       | ≤-25.55     | PASS    |
|           |         |                | 1000~26500      | 4.45           | -34.41       | ≤-25.55     | PASS    |
|           |         | 2437           | Reference       | 3.85           | 3.85         | ---         | PASS    |
|           |         |                | 30~1000         | 3.85           | -59.51       | ≤-26.15     | PASS    |
|           |         |                | 1000~26500      | 3.85           | -34.7        | ≤-26.15     | PASS    |
|           |         | 2462           | Reference       | 4.07           | 4.07         | ---         | PASS    |
|           |         |                | 30~1000         | 4.07           | -59.66       | ≤-25.93     | PASS    |
|           |         |                | 1000~26500      | 4.07           | -34.54       | ≤-25.93     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | 3.51           | 3.51         | ---         | PASS    |
|           |         |                | 30~1000         | 3.51           | -59.7        | ≤-26.49     | PASS    |
|           |         |                | 1000~26500      | 3.51           | -34.36       | ≤-26.49     | PASS    |
|           |         | 2437           | Reference       | 4.37           | 4.37         | ---         | PASS    |
|           |         |                | 30~1000         | 4.37           | -60.54       | ≤-25.63     | PASS    |
|           |         |                | 1000~26500      | 4.37           | -33.94       | ≤-25.63     | PASS    |
|           |         | 2462           | Reference       | 3.26           | 3.26         | ---         | PASS    |
|           |         |                | 30~1000         | 3.26           | -59.85       | ≤-26.74     | PASS    |
|           |         |                | 1000~26500      | 3.26           | -34.31       | ≤-26.74     | PASS    |
| 11N40SISO | Ant1    | 2422           | Reference       | 1.84           | 1.84         | ---         | PASS    |
|           |         |                | 30~1000         | 1.84           | -60.43       | ≤-28.16     | PASS    |
|           |         |                | 1000~26500      | 1.84           | -34.98       | ≤-28.16     | PASS    |
|           |         | 2437           | Reference       | -1.52          | -1.52        | ---         | PASS    |
|           |         |                | 30~1000         | -1.52          | -60.7        | ≤-31.52     | PASS    |
|           |         |                | 1000~26500      | -1.52          | -34.67       | ≤-31.52     | PASS    |
|           |         | 2452           | Reference       | 1.26           | 1.26         | ---         | PASS    |
|           |         |                | 30~1000         | 1.26           | -59.75       | ≤-28.74     | PASS    |

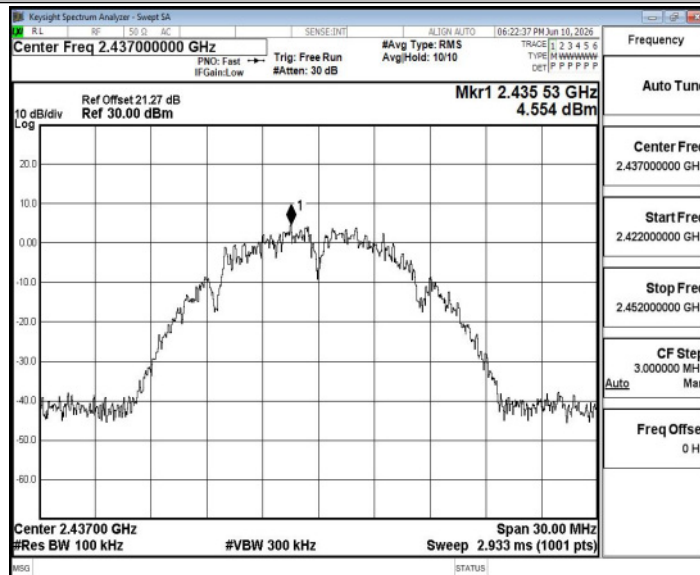
|  |  |  |            |      |        |         |      |
|--|--|--|------------|------|--------|---------|------|
|  |  |  | 1000~26500 | 1.26 | -34.76 | ≤-28.74 | PASS |
|--|--|--|------------|------|--------|---------|------|

## Test Graphs

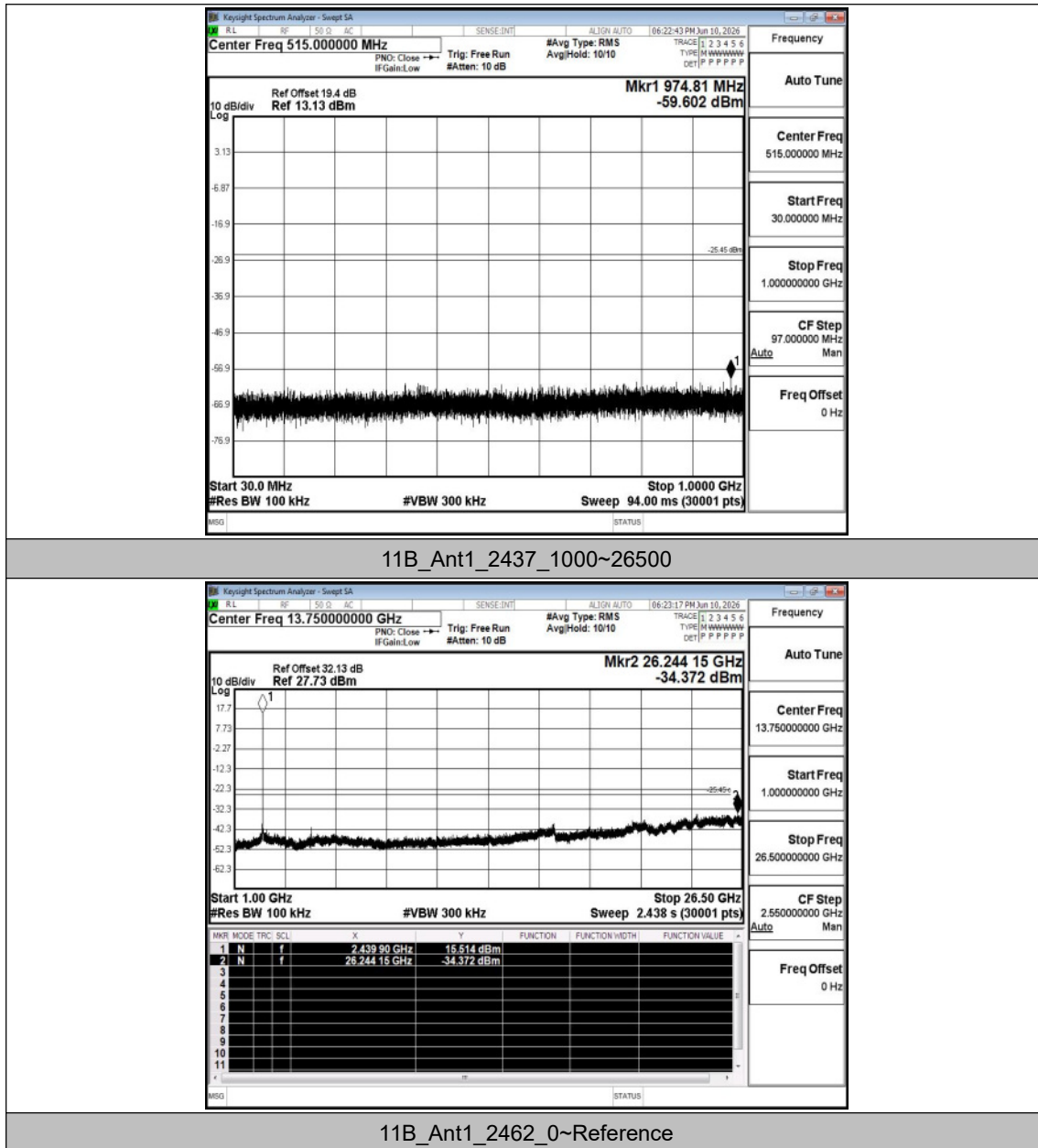


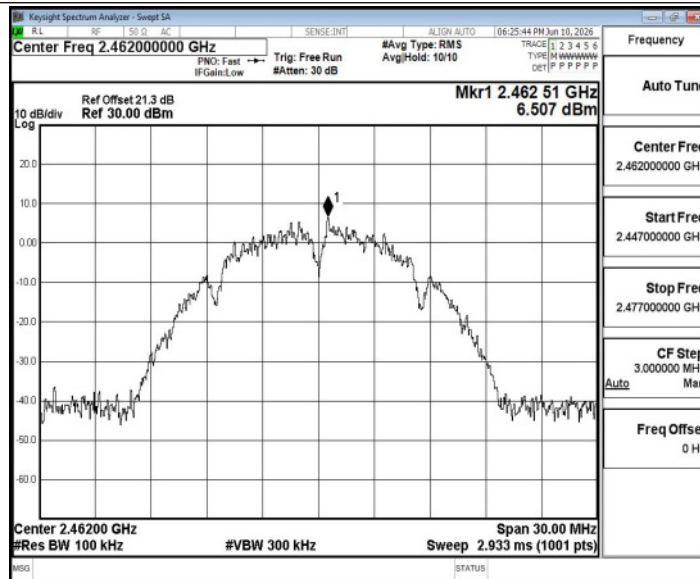


11B\_Ant1\_2437\_0~Reference

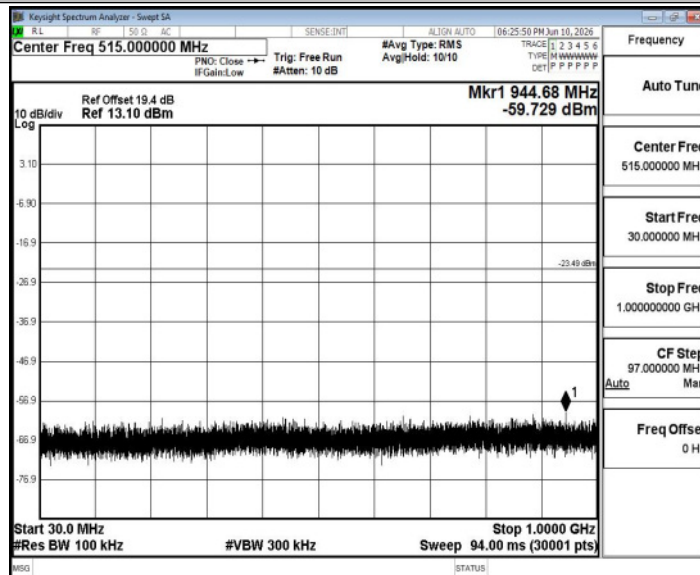


11B\_Ant1\_2437\_30~1000

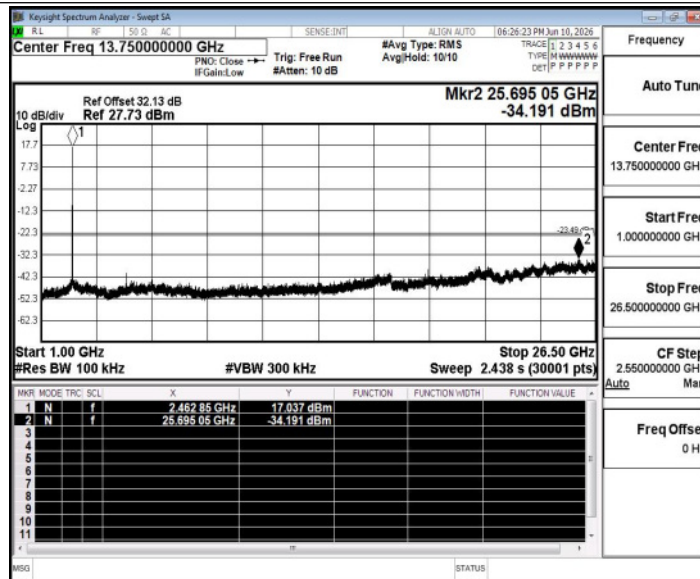




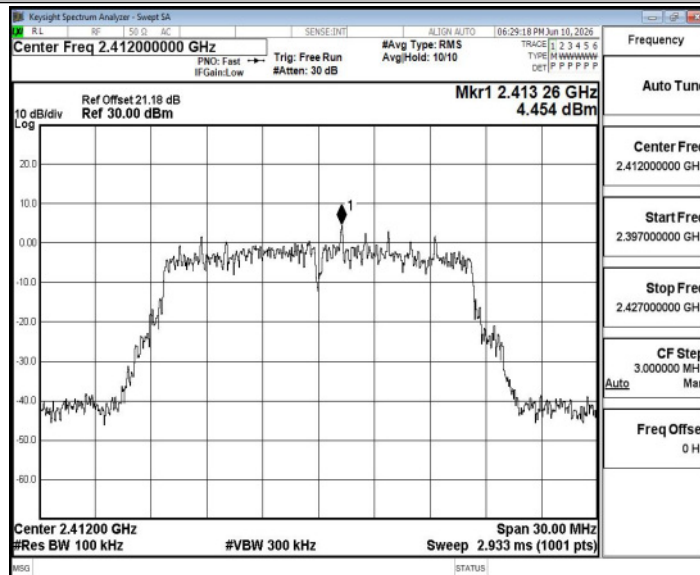
11B\_Ant1\_2462\_30~1000



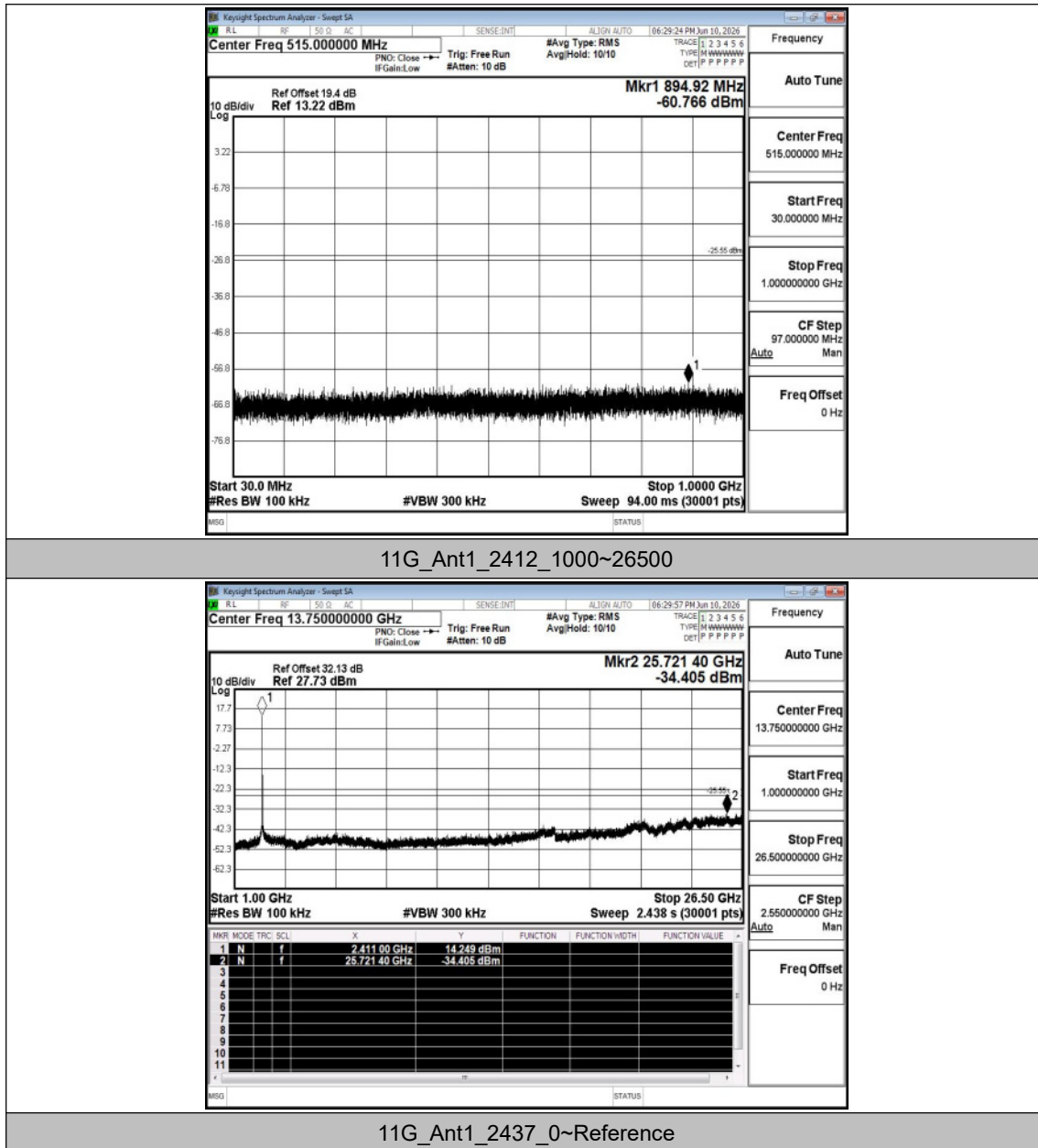
11B\_Ant1\_2462\_1000~26500

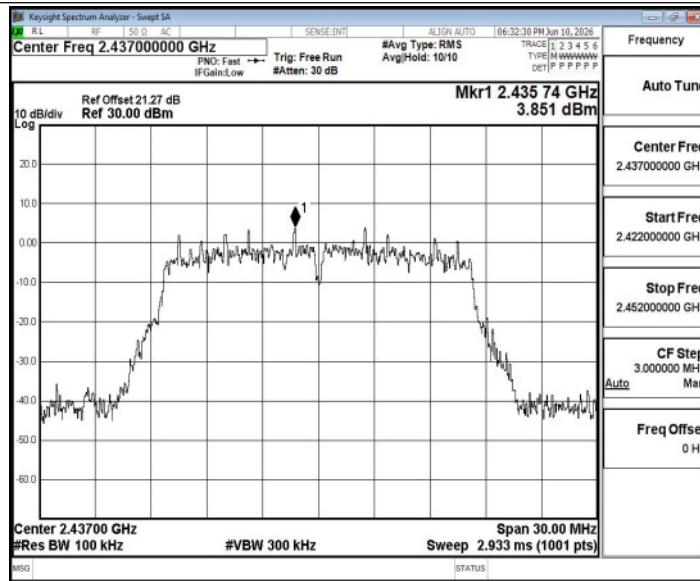


11G\_Ant1\_2412\_0~Reference

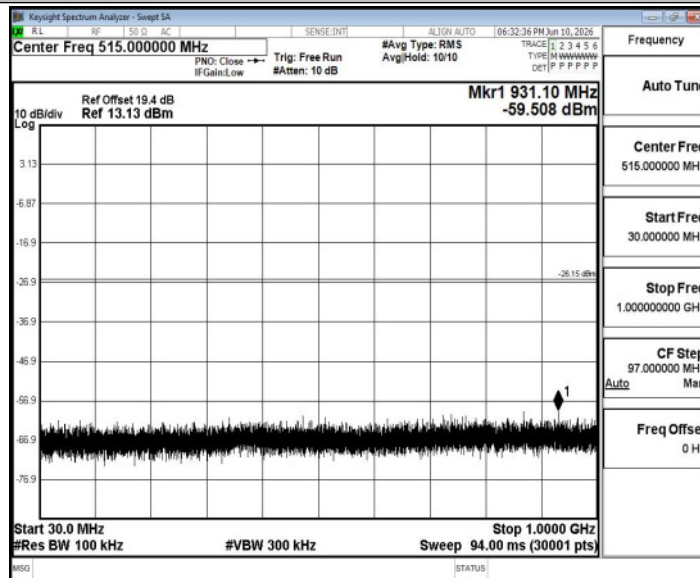


11G\_Ant1\_2412\_30~1000

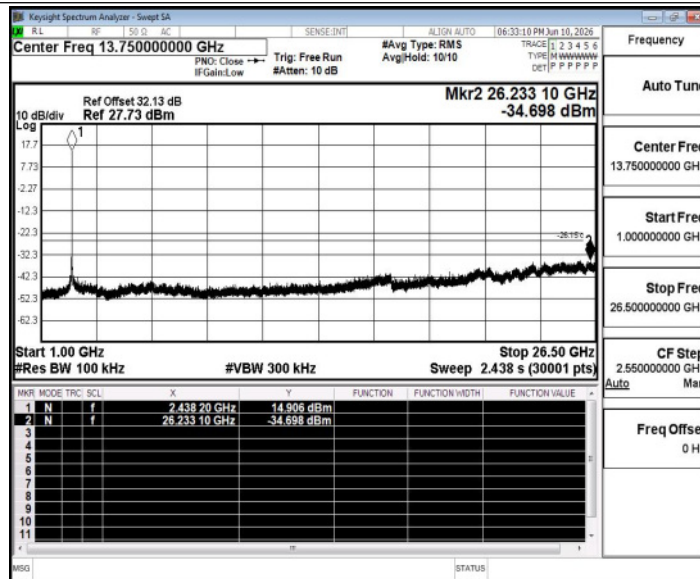




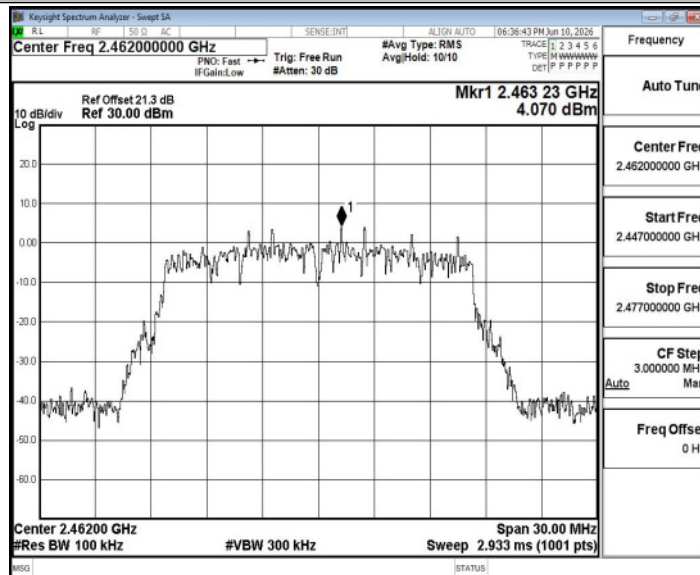
11G\_Ant1\_2437\_30~1000



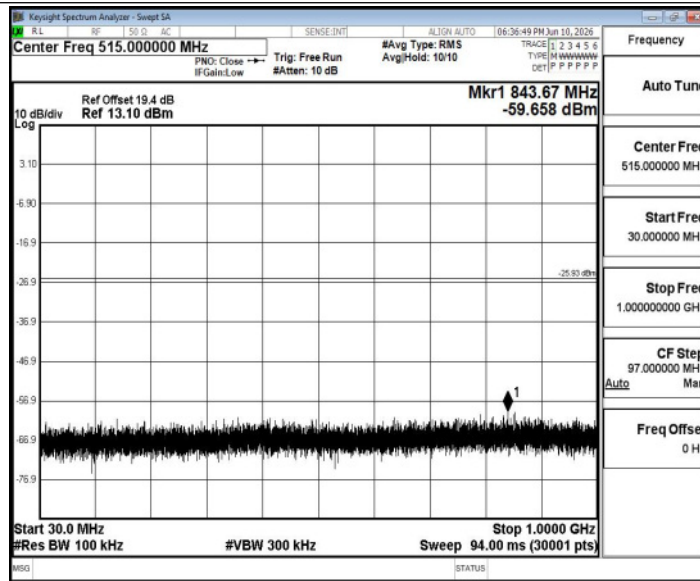
11G\_Ant1\_2437\_1000~26500



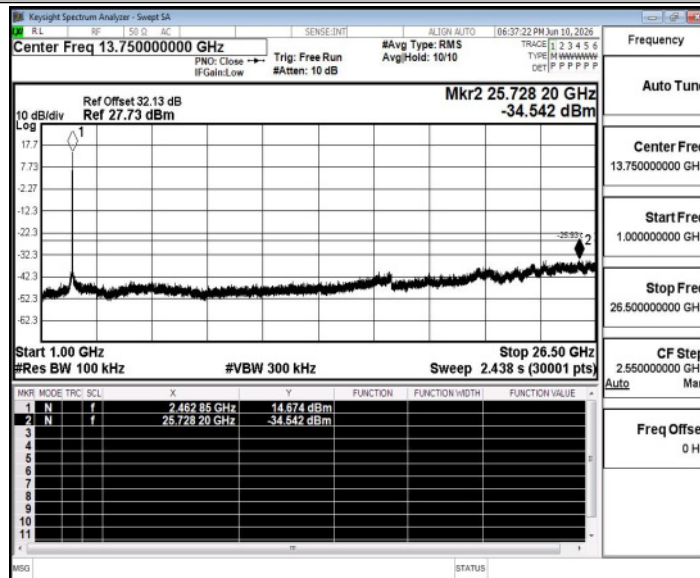
11G\_Ant1\_2462\_0~Reference



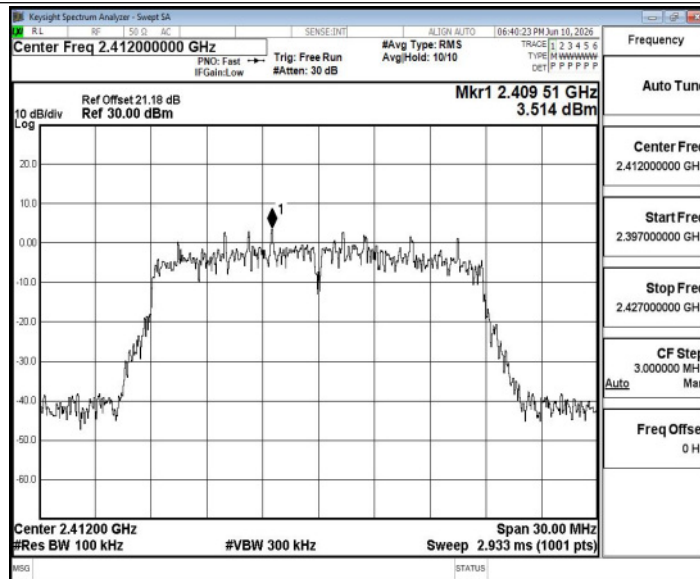
11G\_Ant1\_2462\_30~1000



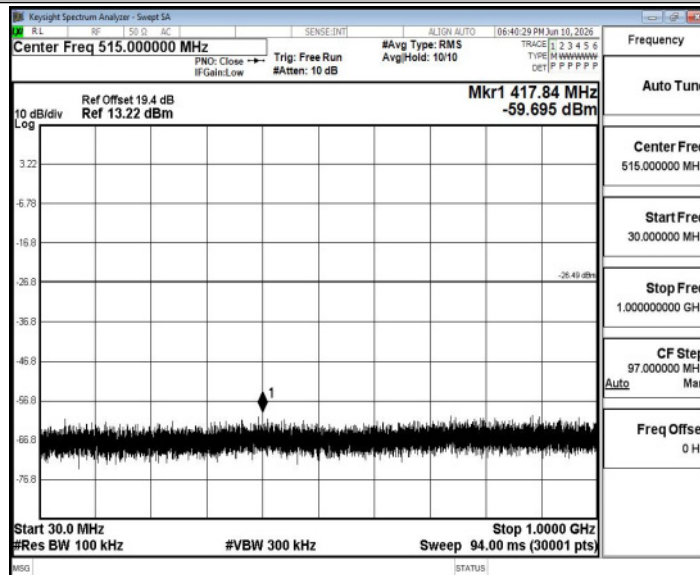
11G\_Ant1\_2462\_1000~26500



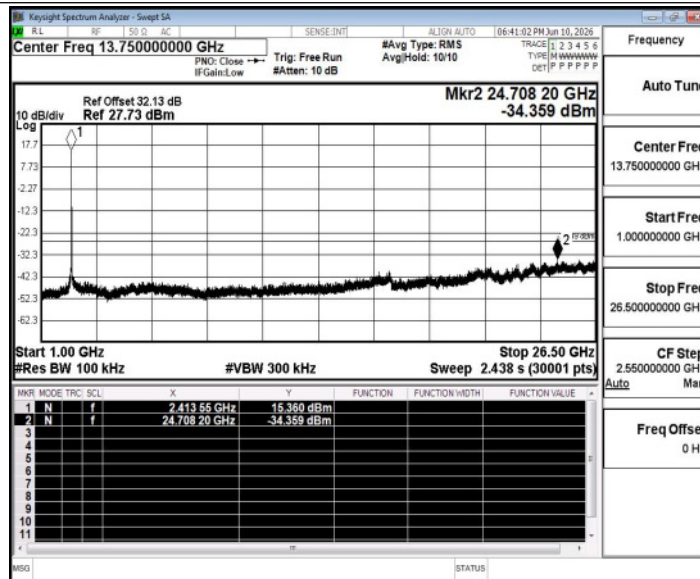
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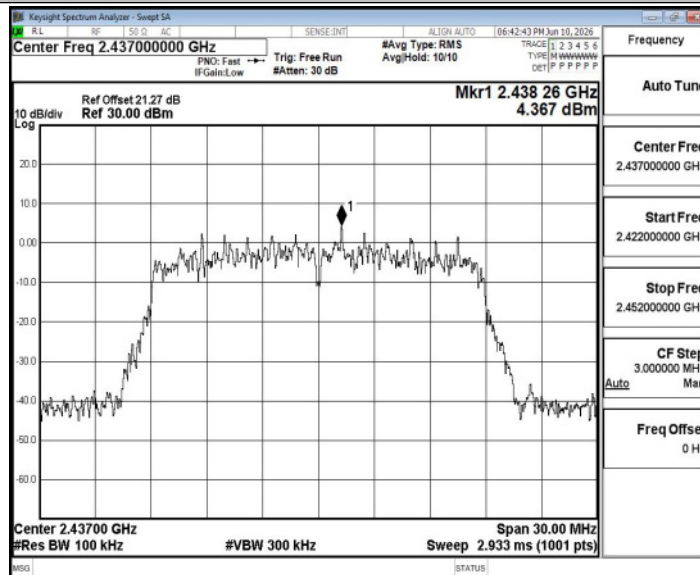
11N20SISO\_Ant1\_2412\_30~1000



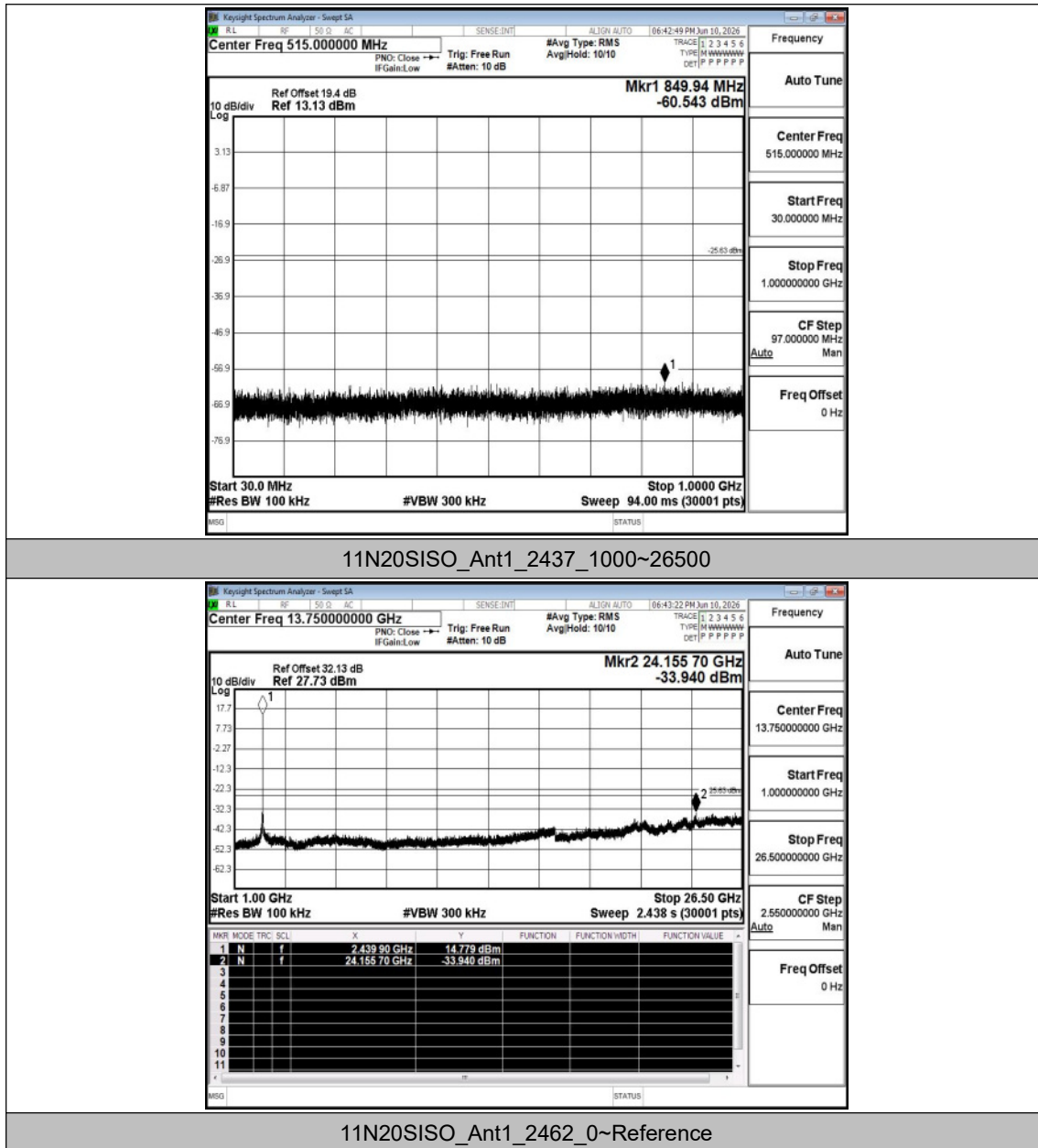
11N20SISO\_Ant1\_2412\_1000~26500

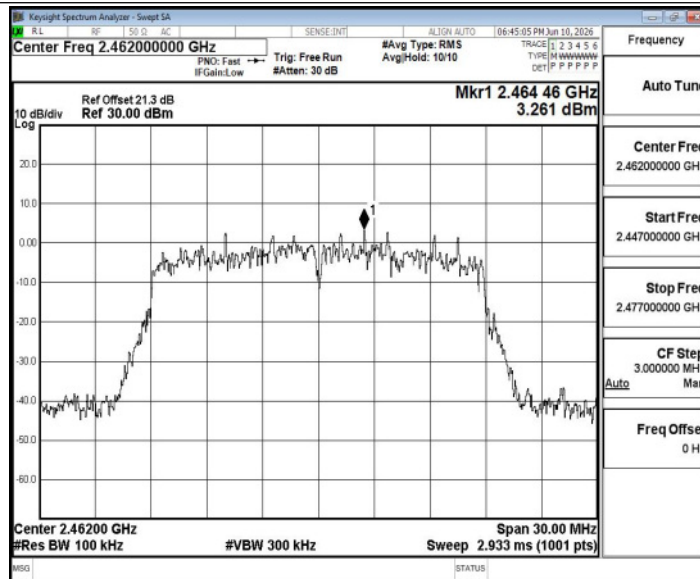


11N20SISO\_Ant1\_2437\_0~Reference

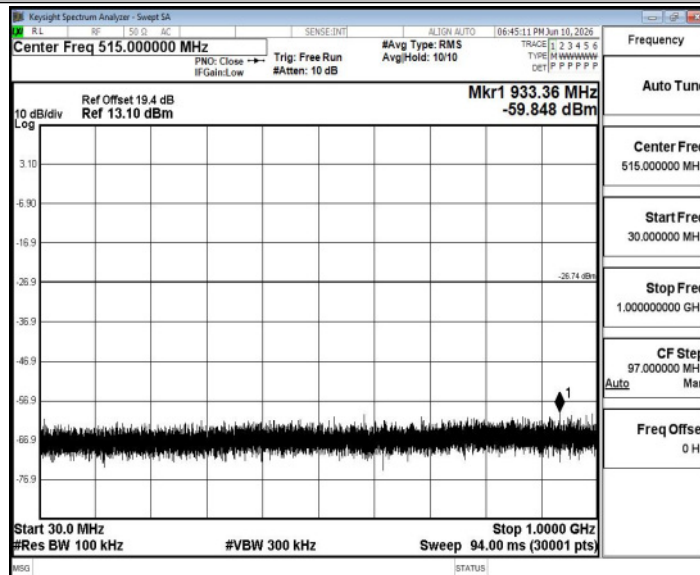


11N20SISO\_Ant1\_2437\_30~1000

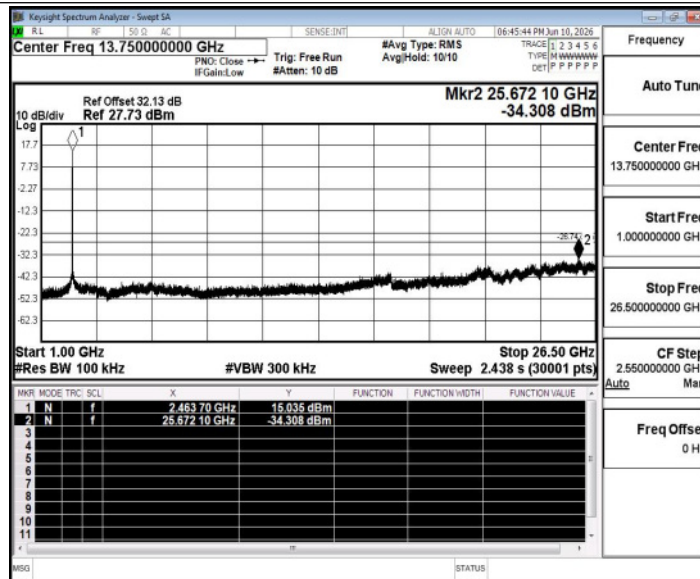




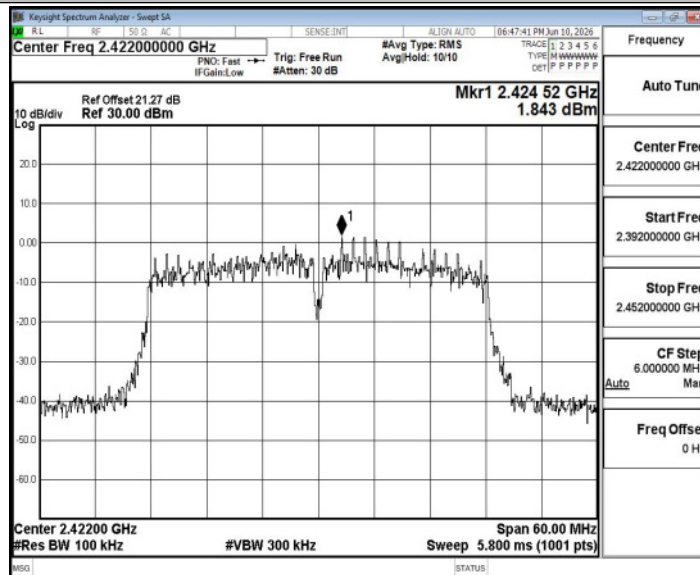
11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference



11N40SISO\_Ant1\_2422\_30~1000