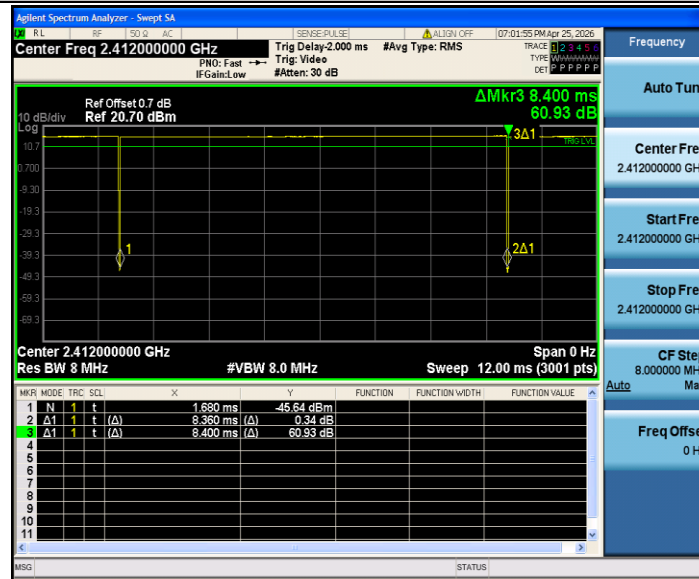
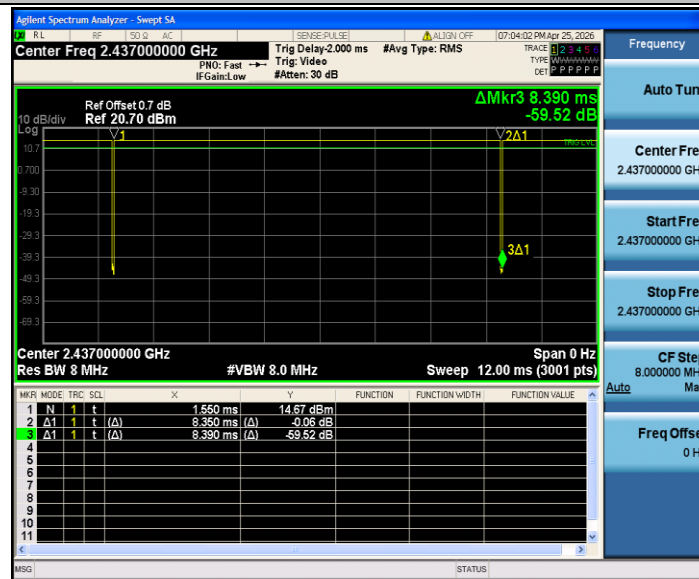


## Test Graphs

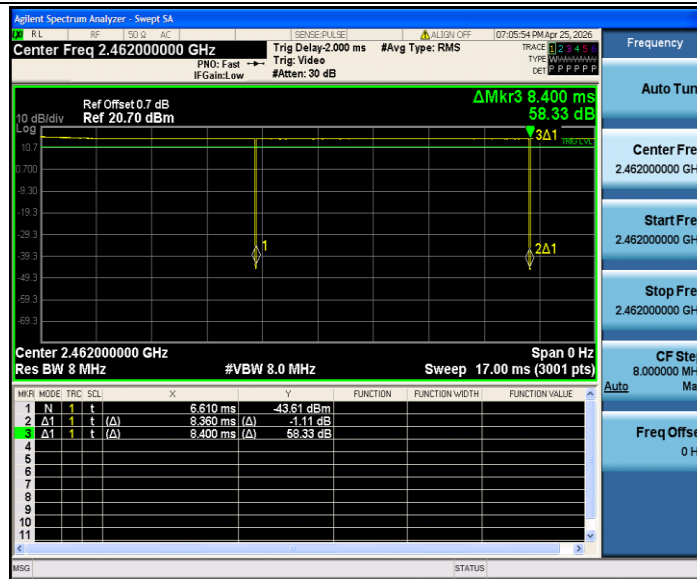
11B\_Ant1\_2412



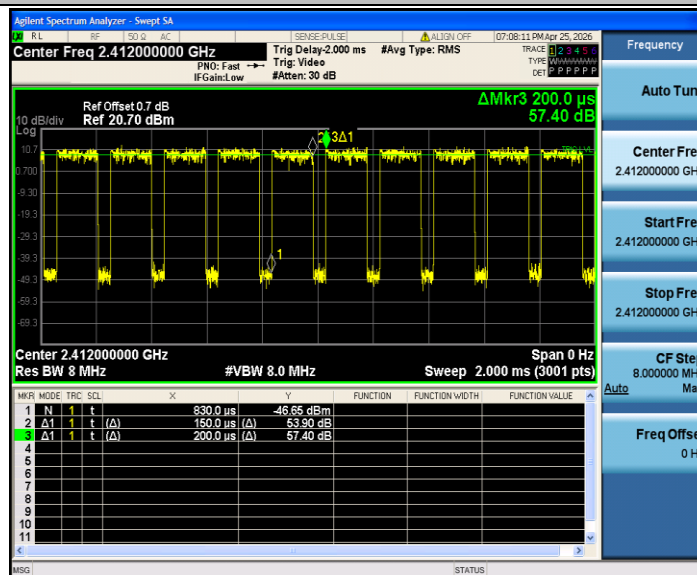
11B\_Ant1\_2437



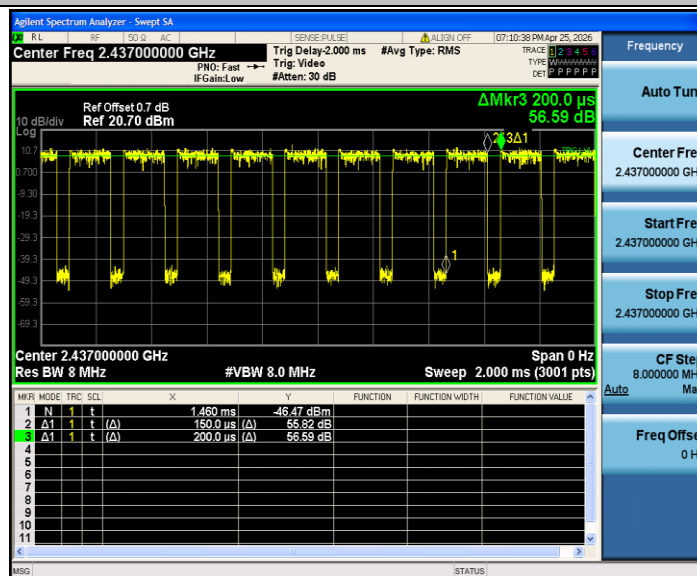
11B\_Ant1\_2462



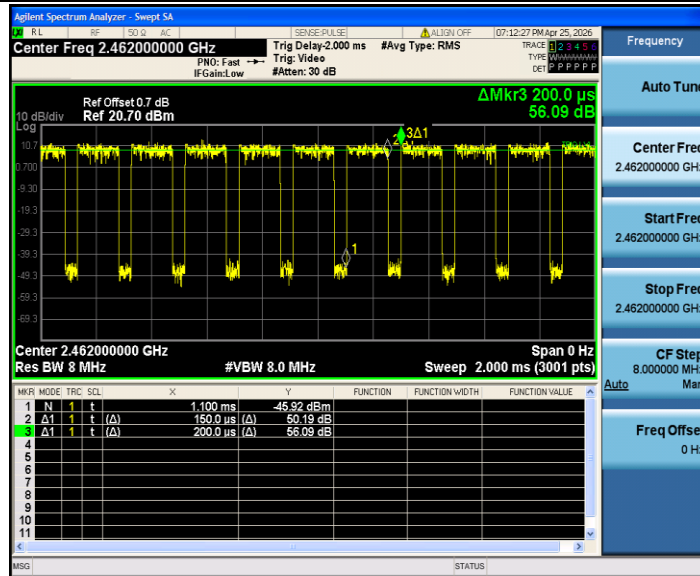
11G\_Ant1\_2412



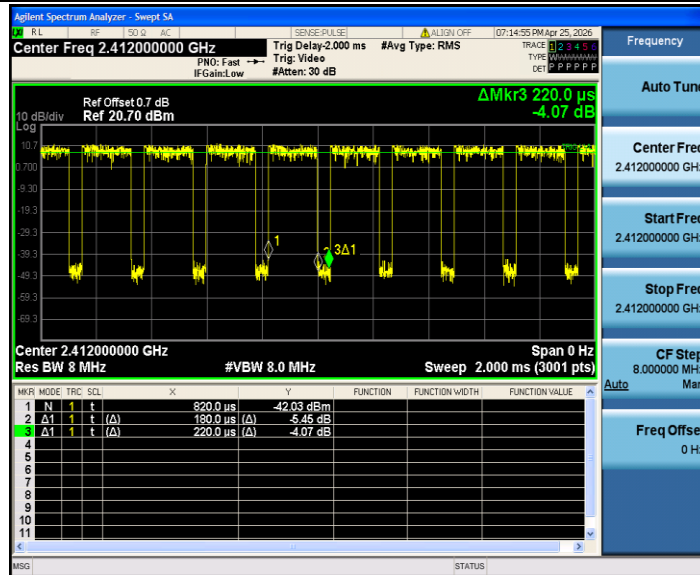
11G\_Ant1\_2437



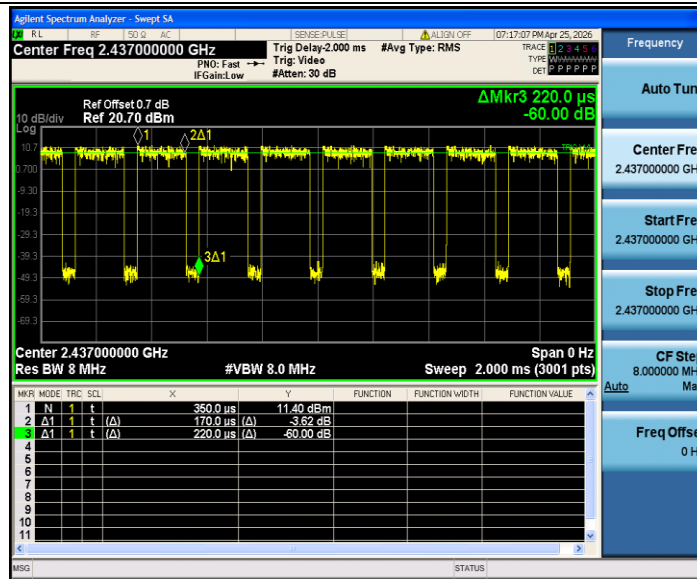
# 11G\_Ant1\_2462



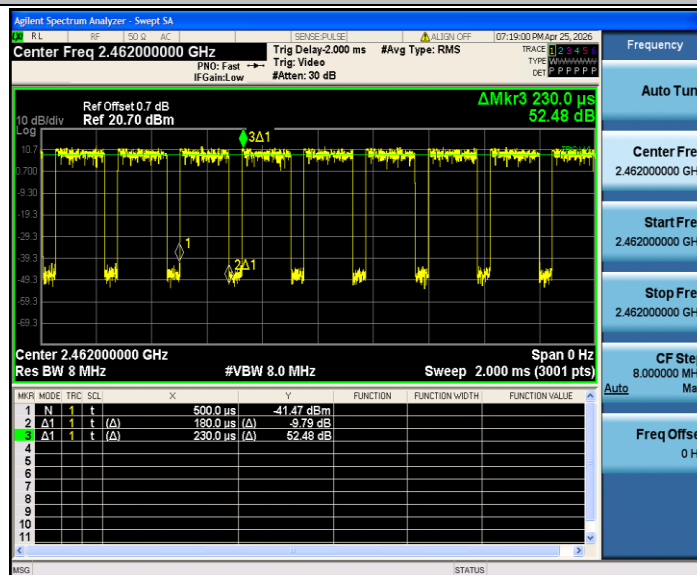
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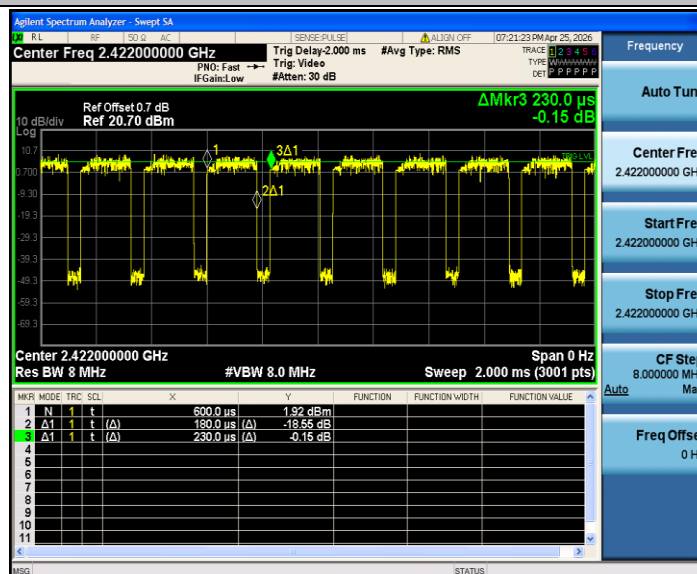
# 11N20SISO\_Ant1\_2437



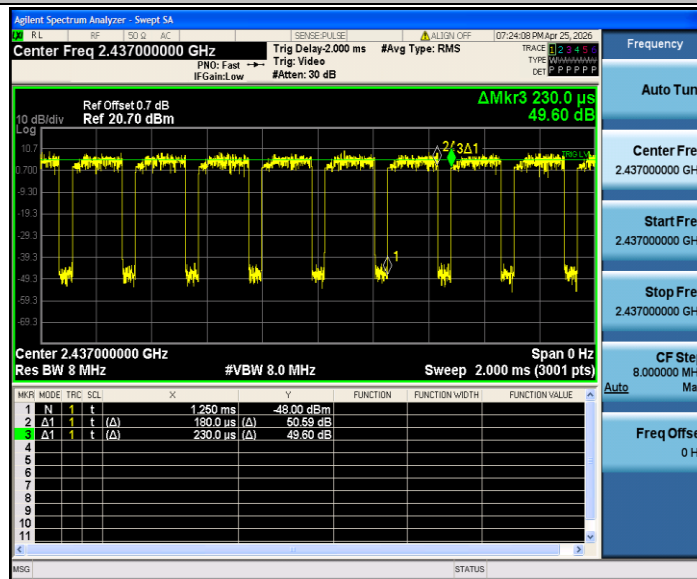
11N20SISO\_Ant1\_2462



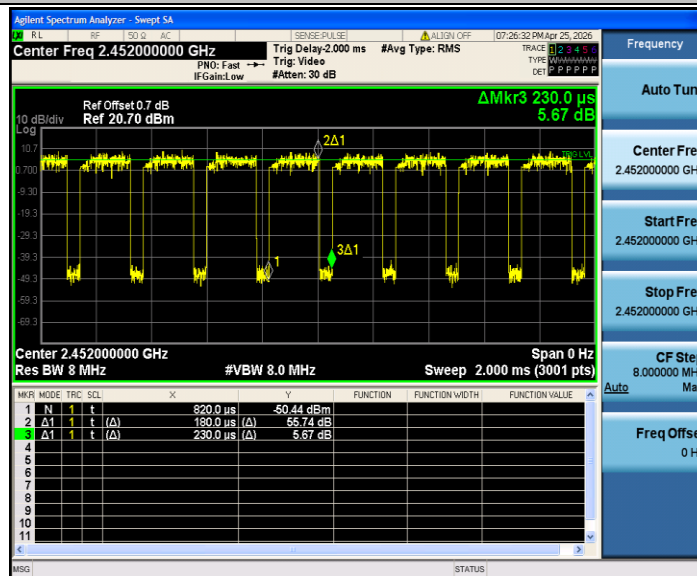
11N40SISO\_Ant1\_2422



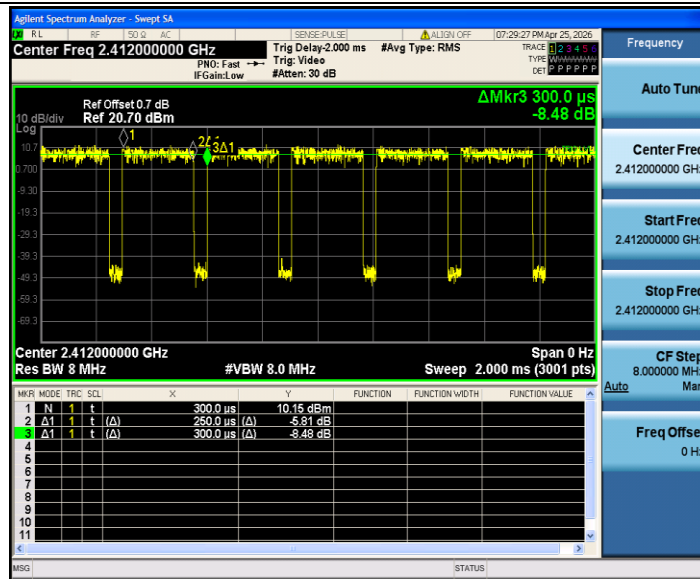
# 11N40SISO\_Ant1\_2437



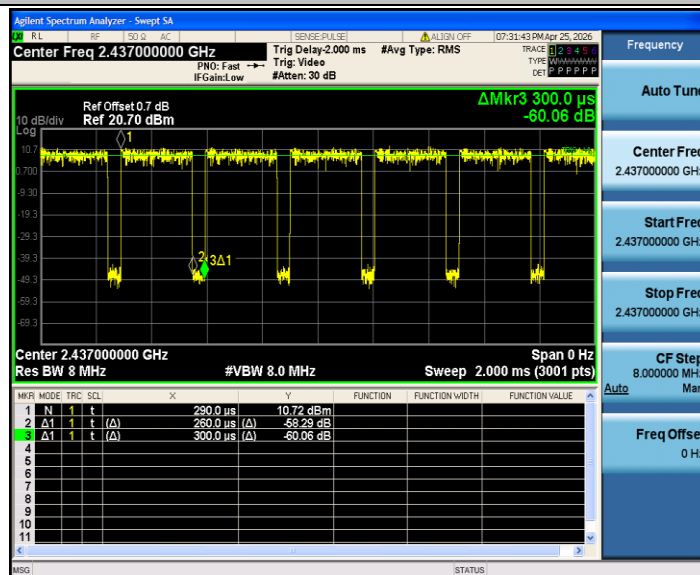
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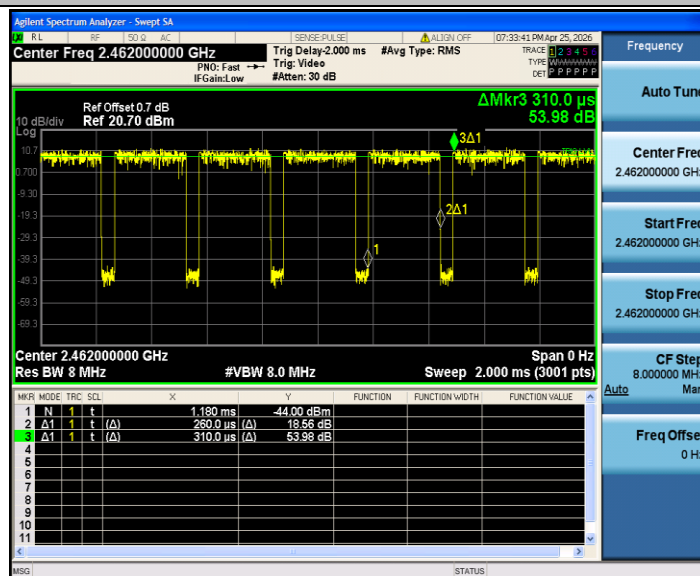
# 11AX20SISO\_Ant1\_2412



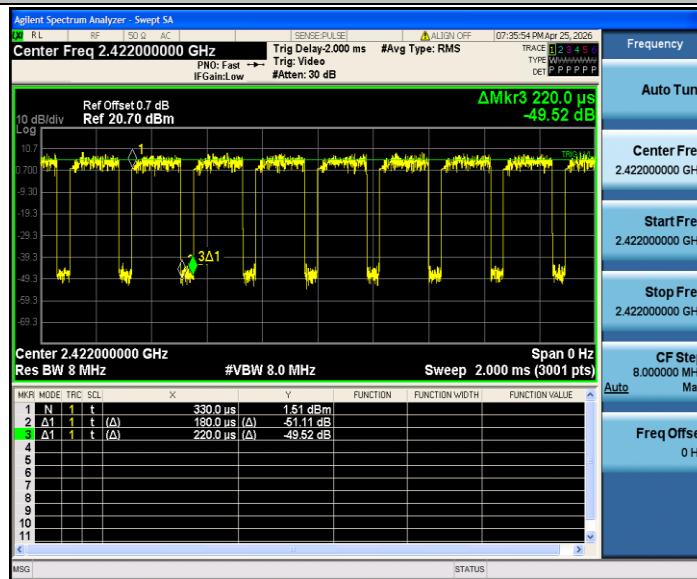
11AX20SISO\_Ant1\_2437



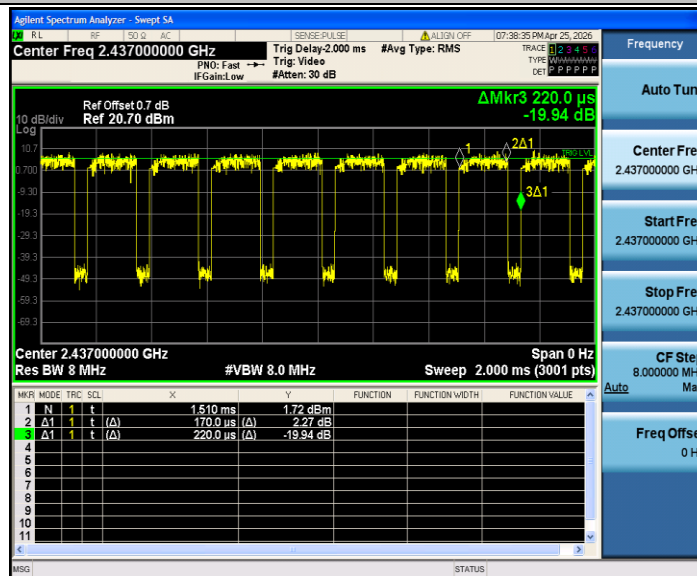
11AX20SISO\_Ant1\_2462



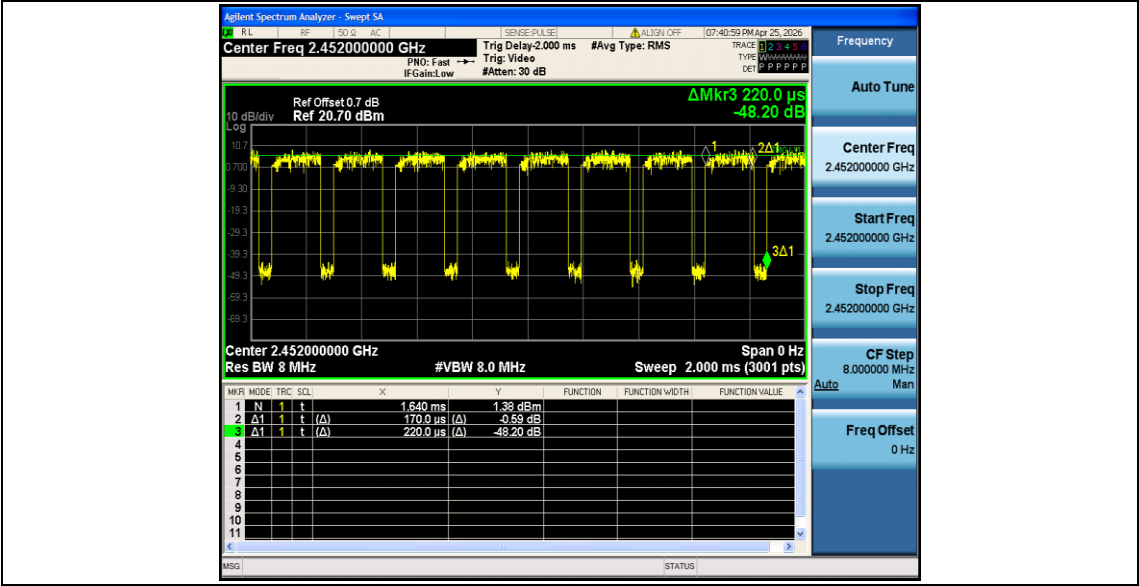
# 11AX40SISO\_Ant1\_2422



# 11AX40SISO\_Ant1\_2437



# 11AX40SISO\_Ant1\_2452



## Appendix H: Emissions in Restricted Bands

### Test Result

| TestMod<br>e  | Antenn<br>a | ChNam<br>e | Frequen<br>cy[MHz] | Detector | Freq<br>[MHz] | Result<br>[dBm] | Gain<br>[dB] | DC<br>Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Verdict |
|---------------|-------------|------------|--------------------|----------|---------------|-----------------|--------------|----------------------|--------------------|-------------------|---------|
| 11B           | Ant1        | Low        | 2412               | AV       | 2310.000      | -59.71          | 2.00         | 0.02                 | 37.51              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2386.190      | -52.32          | 2.00         | 0.02                 | 44.90              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2390.000      | -55.31          | 2.00         | 0.02                 | 41.91              | ≤54               | PASS    |
|               |             |            |                    | Peak     | 2310.000      | -52.49          | 2.00         | 0.00                 | 44.71              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2386.450      | -44.31          | 2.00         | 0.00                 | 52.89              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2390.000      | -44.73          | 2.00         | 0.00                 | 52.47              | ≤74               | PASS    |
|               |             | High       | 2462               | AV       | 2483.500      | -54.55          | 2.00         | 0.02                 | 42.67              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2487.960      | -53.49          | 2.00         | 0.02                 | 43.73              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2500.000      | -57.41          | 2.00         | 0.02                 | 39.81              | ≤54               | PASS    |
|               |             |            |                    | Peak     | 2483.500      | -47.76          | 2.00         | 0.00                 | 49.44              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2484.220      | -45.74          | 2.00         | 0.00                 | 51.46              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2500.000      | -49.79          | 2.00         | 0.00                 | 47.41              | ≤74               | PASS    |
| 11G           | Ant1        | Low        | 2412               | AV       | 2310.000      | -59.94          | 2.00         | 1.25                 | 38.51              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2388.400      | -58.16          | 2.00         | 1.25                 | 40.29              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2390.000      | -58.92          | 2.00         | 1.25                 | 39.53              | ≤54               | PASS    |
|               |             |            |                    | Peak     | 2310.000      | -52.59          | 2.00         | 0.00                 | 44.61              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2389.830      | -48.03          | 2.00         | 0.00                 | 49.17              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2390.000      | -50.84          | 2.00         | 0.00                 | 46.36              | ≤74               | PASS    |
|               |             | High       | 2462               | AV       | 2483.500      | -58.76          | 2.00         | 1.25                 | 39.69              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2486.090      | -57.81          | 2.00         | 1.25                 | 40.64              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2500.000      | -58.97          | 2.00         | 1.25                 | 39.48              | ≤54               | PASS    |
|               |             |            |                    | Peak     | 2483.500      | -49.01          | 2.00         | 0.00                 | 48.19              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2483.670      | -48.21          | 2.00         | 0.00                 | 48.99              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2500.000      | -50.77          | 2.00         | 0.00                 | 46.43              | ≤74               | PASS    |
| 11N20SI<br>SO | Ant1        | Low        | 2412               | AV       | 2310.000      | -59.87          | 2.00         | 0.87                 | 38.20              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2389.960      | -58.2           | 2.00         | 0.87                 | 39.87              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2390.000      | -58.21          | 2.00         | 0.87                 | 39.86              | ≤54               | PASS    |
|               |             |            |                    | Peak     | 2310.000      | -52.19          | 2.00         | 0.00                 | 45.01              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2386.190      | -48.12          | 2.00         | 0.00                 | 49.08              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2390.000      | -51.37          | 2.00         | 0.00                 | 45.83              | ≤74               | PASS    |
|               |             | High       | 2462               | AV       | 2483.500      | -58.44          | 2.00         | 1.06                 | 39.82              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2483.780      | -57.78          | 2.00         | 1.06                 | 40.48              | ≤54               | PASS    |
|               |             |            |                    | AV       | 2500.000      | -58.73          | 2.00         | 1.06                 | 39.53              | ≤54               | PASS    |
|               |             |            |                    | Peak     | 2483.500      | -49.98          | 2.00         | 0.00                 | 47.22              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2491.040      | -47.48          | 2.00         | 0.00                 | 49.72              | ≤74               | PASS    |
|               |             |            |                    | Peak     | 2500.000      | -51.26          | 2.00         | 0.00                 | 45.94              | ≤74               | PASS    |

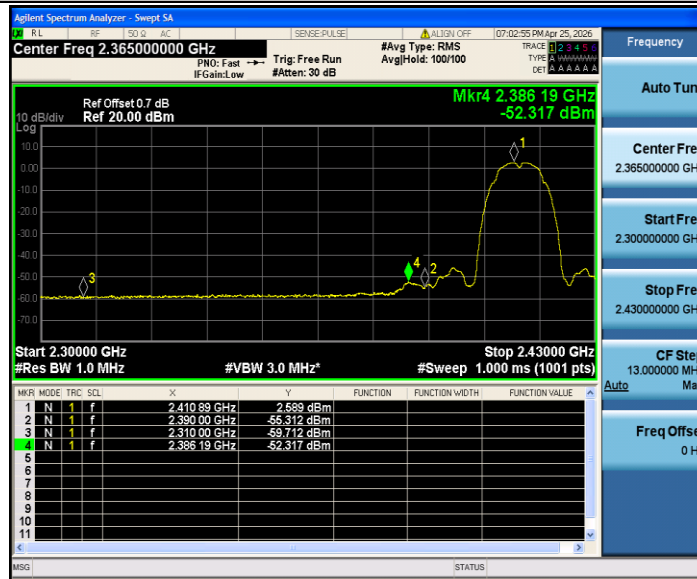
|                |      |      |      |      |          |        |      |      |       |     |      |
|----------------|------|------|------|------|----------|--------|------|------|-------|-----|------|
| 11N40SI<br>SO  | Ant1 | Low  | 2422 | AV   | 2310.000 | -59.39 | 2.00 | 1.06 | 38.87 | ≤54 | PASS |
|                |      |      |      | AV   | 2389.400 | -56.81 | 2.00 | 1.06 | 41.45 | ≤54 | PASS |
|                |      |      |      | AV   | 2390.000 | -57.47 | 2.00 | 1.06 | 40.79 | ≤54 | PASS |
|                |      |      |      | Peak | 2310.000 | -51.41 | 2.00 | 0.00 | 45.79 | ≤74 | PASS |
|                |      |      |      | Peak | 2385.050 | -47.01 | 2.00 | 0.00 | 50.19 | ≤74 | PASS |
|                |      |      |      | Peak | 2390.000 | -47.79 | 2.00 | 0.00 | 49.41 | ≤74 | PASS |
|                |      | High | 2452 | AV   | 2483.500 | -58.03 | 2.00 | 1.06 | 40.23 | ≤54 | PASS |
|                |      |      |      | AV   | 2484.000 | -57.67 | 2.00 | 1.06 | 40.59 | ≤54 | PASS |
|                |      |      |      | AV   | 2500.000 | -58.68 | 2.00 | 1.06 | 39.58 | ≤54 | PASS |
|                |      |      |      | Peak | 2483.500 | -50.28 | 2.00 | 0.00 | 46.92 | ≤74 | PASS |
|                |      |      |      | Peak | 2491.375 | -47.91 | 2.00 | 0.00 | 49.29 | ≤74 | PASS |
|                |      |      |      | Peak | 2500.000 | -49.38 | 2.00 | 0.00 | 47.82 | ≤74 | PASS |
| 11AX20<br>SISO | Ant1 | Low  | 2412 | AV   | 2310.000 | -59.6  | 2.00 | 0.79 | 38.39 | ≤54 | PASS |
|                |      |      |      | AV   | 2388.660 | -58.11 | 2.00 | 0.79 | 39.88 | ≤54 | PASS |
|                |      |      |      | AV   | 2390.000 | -58.79 | 2.00 | 0.79 | 39.20 | ≤54 | PASS |
|                |      |      |      | Peak | 2310.000 | -50.93 | 2.00 | 0.00 | 46.27 | ≤74 | PASS |
|                |      |      |      | Peak | 2373.970 | -48.28 | 2.00 | 0.00 | 48.92 | ≤74 | PASS |
|                |      |      |      | Peak | 2390.000 | -49.92 | 2.00 | 0.00 | 47.28 | ≤74 | PASS |
|                |      | High | 2462 | AV   | 2483.500 | -58.17 | 2.00 | 0.76 | 39.79 | ≤54 | PASS |
|                |      |      |      | AV   | 2483.670 | -57.94 | 2.00 | 0.76 | 40.02 | ≤54 | PASS |
|                |      |      |      | AV   | 2500.000 | -58.58 | 2.00 | 0.76 | 39.38 | ≤54 | PASS |
|                |      |      |      | Peak | 2483.500 | -50.86 | 2.00 | 0.00 | 46.34 | ≤74 | PASS |
|                |      |      |      | Peak | 2494.560 | -48.97 | 2.00 | 0.00 | 48.23 | ≤74 | PASS |
|                |      |      |      | Peak | 2500.000 | -50.54 | 2.00 | 0.00 | 46.66 | ≤74 | PASS |
| 11AX40<br>SISO | Ant1 | Low  | 2422 | AV   | 2310.000 | -59.66 | 2.00 | 0.87 | 38.41 | ≤54 | PASS |
|                |      |      |      | AV   | 2389.250 | -57.57 | 2.00 | 0.87 | 40.50 | ≤54 | PASS |
|                |      |      |      | AV   | 2390.000 | -57.83 | 2.00 | 0.87 | 40.24 | ≤54 | PASS |
|                |      |      |      | Peak | 2310.000 | -52.2  | 2.00 | 0.00 | 45.00 | ≤74 | PASS |
|                |      |      |      | Peak | 2389.850 | -47.31 | 2.00 | 0.00 | 49.89 | ≤74 | PASS |
|                |      |      |      | Peak | 2390.000 | -50.11 | 2.00 | 0.00 | 47.09 | ≤74 | PASS |
|                |      | High | 2452 | AV   | 2483.500 | -57.39 | 2.00 | 1.12 | 40.93 | ≤54 | PASS |
|                |      |      |      | AV   | 2484.500 | -57.63 | 2.00 | 1.12 | 40.69 | ≤54 | PASS |
|                |      |      |      | AV   | 2500.000 | -58.26 | 2.00 | 1.12 | 40.06 | ≤54 | PASS |
|                |      |      |      | Peak | 2483.500 | -50.1  | 2.00 | 0.00 | 47.10 | ≤74 | PASS |
|                |      |      |      | Peak | 2485.000 | -48.4  | 2.00 | 0.00 | 48.80 | ≤74 | PASS |
|                |      |      |      | Peak | 2500.000 | -50.59 | 2.00 | 0.00 | 46.61 | ≤74 | PASS |

Note:

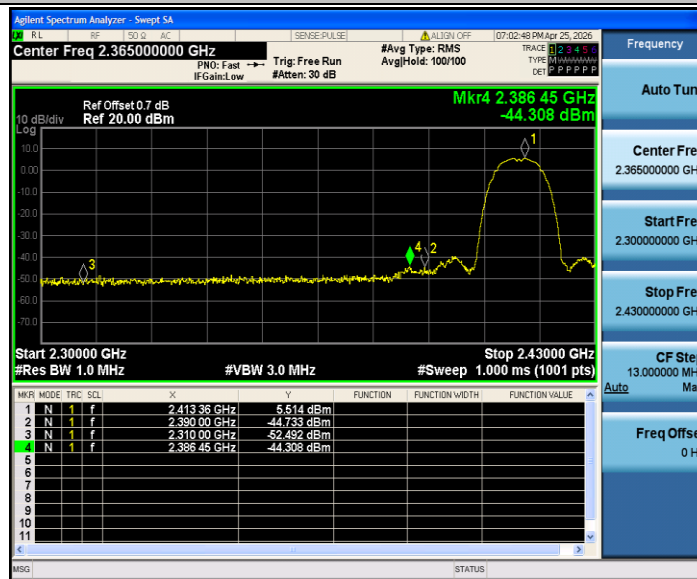
The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

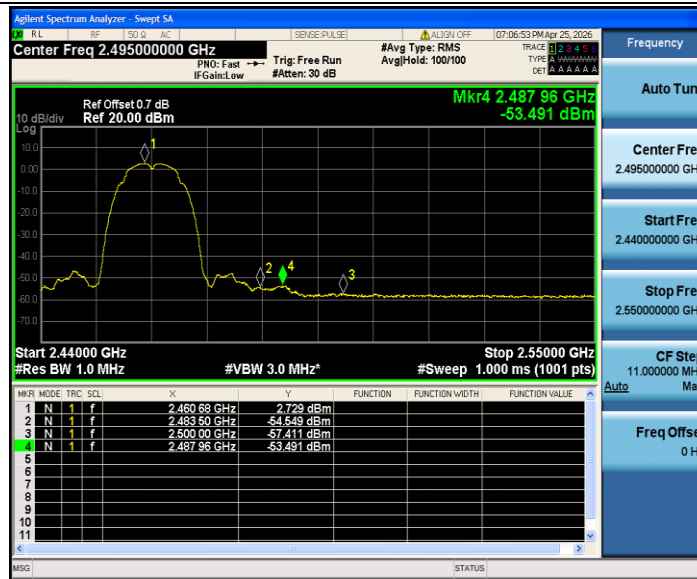
11B\_Ant1\_Low\_2412\_AV



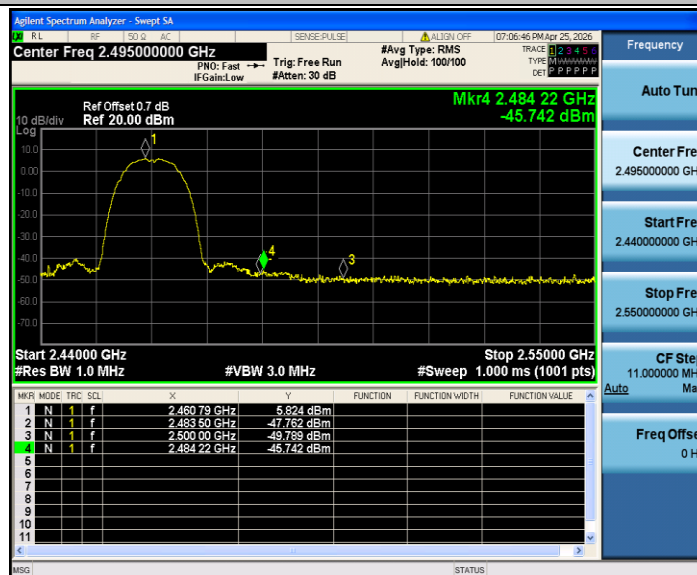
11B\_Ant1\_Low\_2412\_Peak



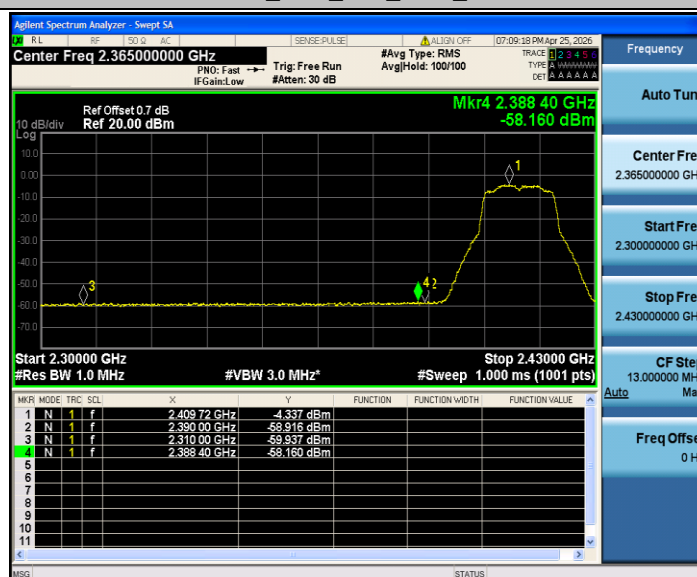
11B\_Ant1\_High\_2462\_AV



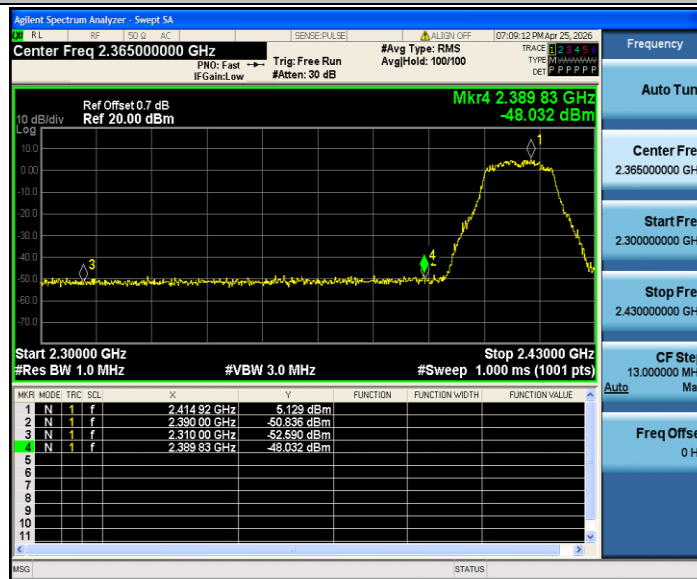
11B\_Ant1\_High\_2462\_Peak



11G\_Ant1\_Low\_2412\_AV



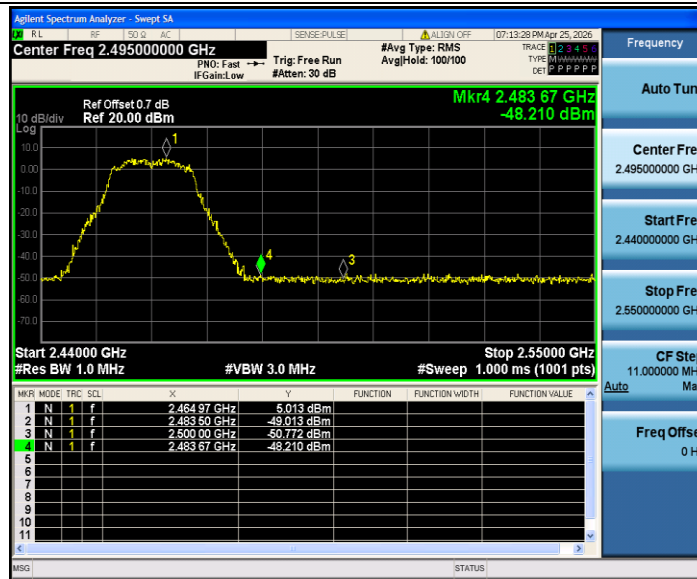
# 11G\_Ant1\_Low\_2412\_Peak



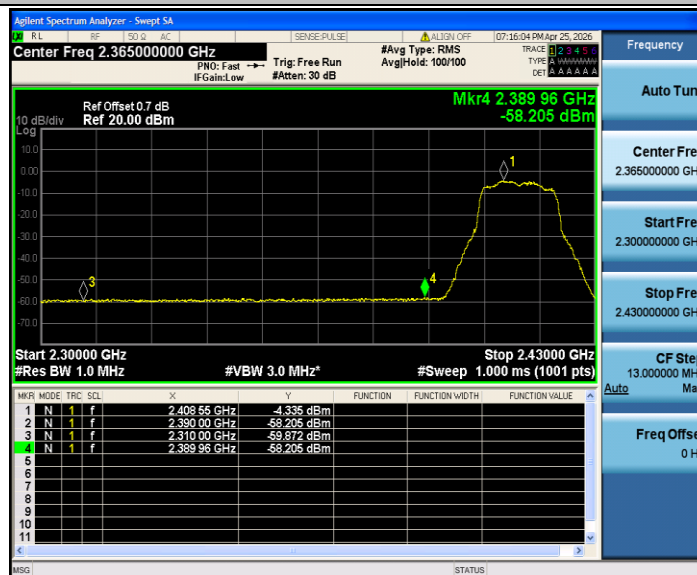
# 11G\_Ant1\_High\_2462\_AV



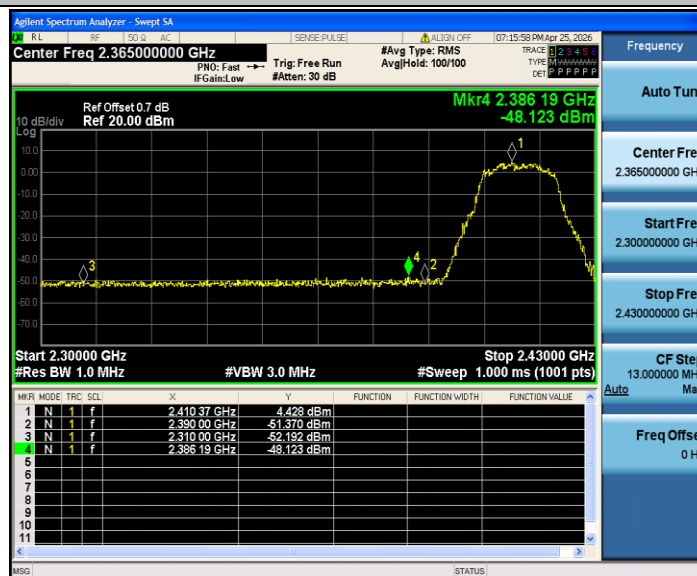
# 11G\_Ant1\_High\_2462\_Peak



11N20SISO\_Ant1\_Low\_2412\_AV



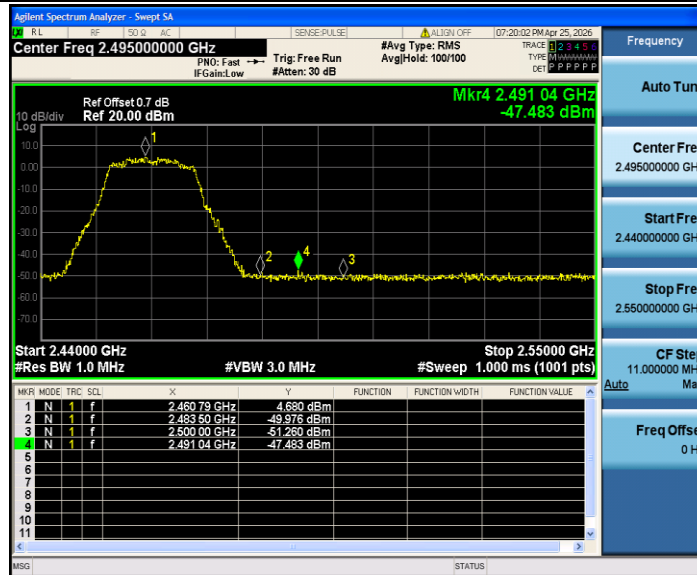
11N20SISO\_Ant1\_Low\_2412\_Peak



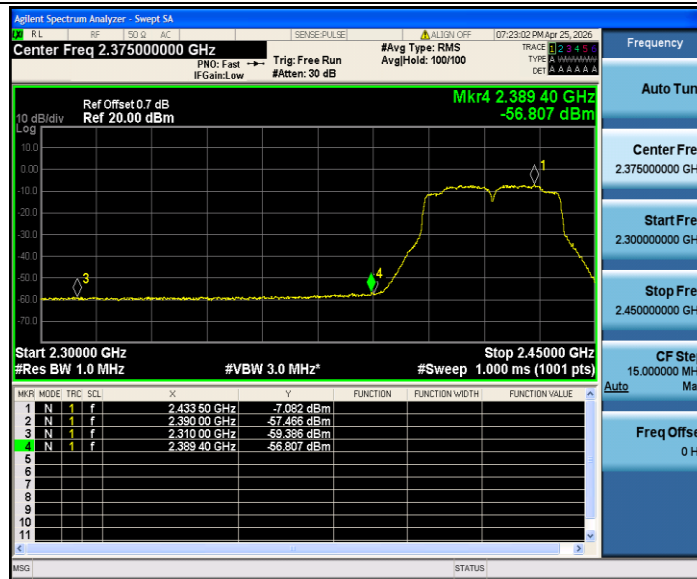
# 11N20SISO\_Ant1\_High\_2462\_AV



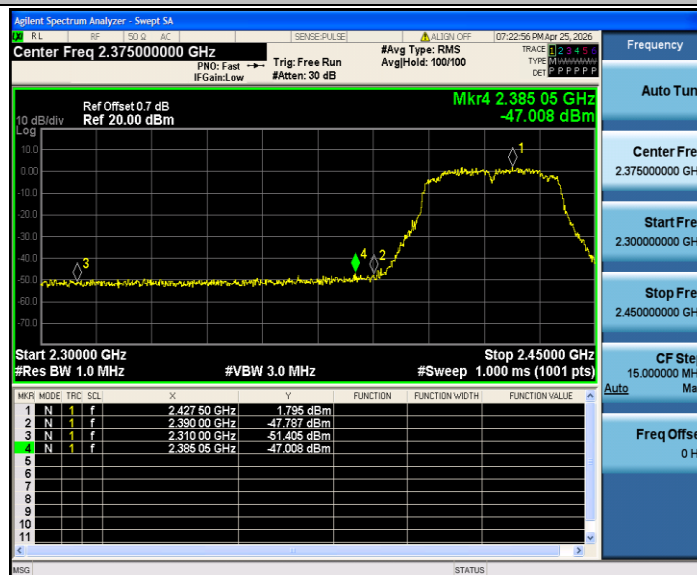
# 11N20SISO\_Ant1\_High\_2462\_Peak



# 11N40SISO\_Ant1\_Low\_2422\_AV



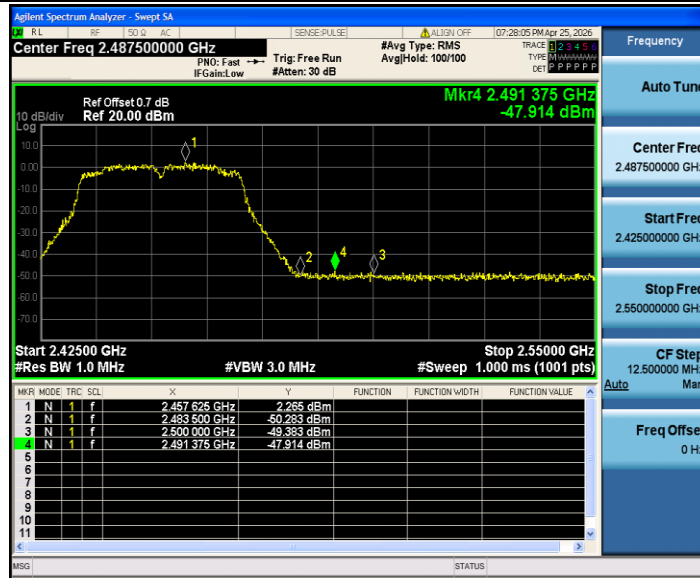
11N40SISO\_Ant1\_Low\_2422\_Peak



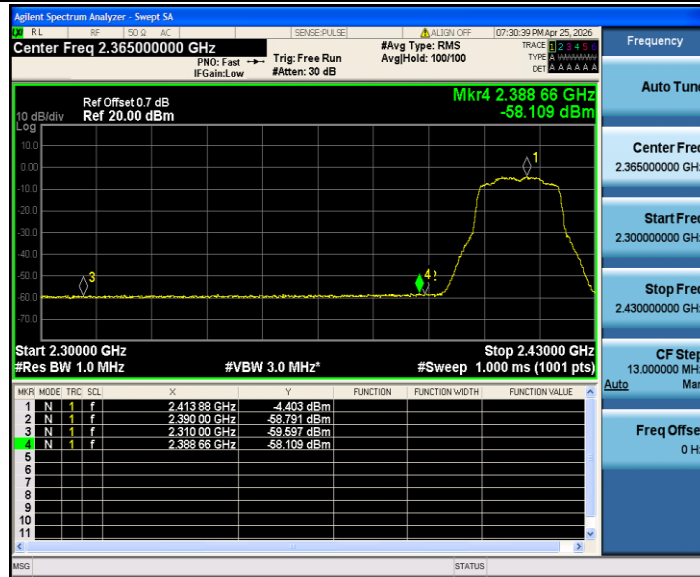
11N40SISO\_Ant1\_High\_2452\_AV



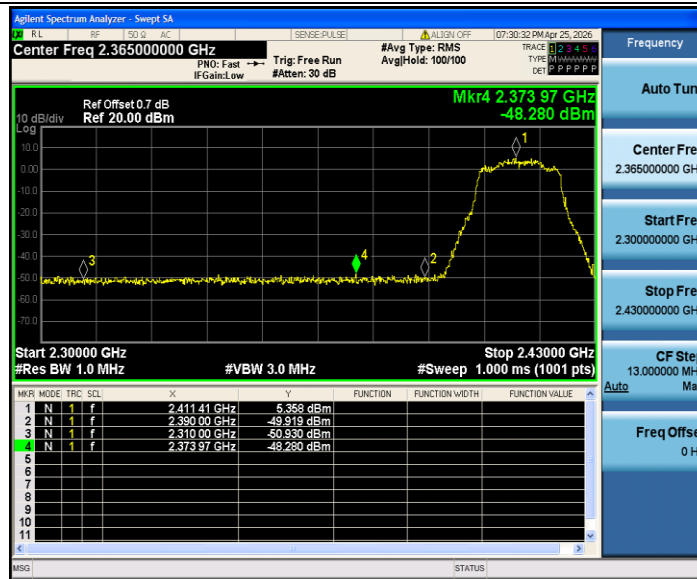
# 11N40SISO\_Ant1\_High\_2452\_Peak



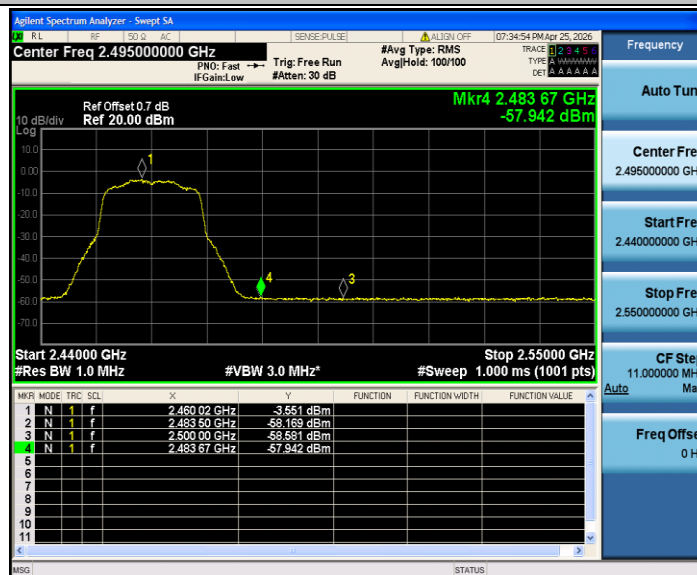
# 11AX20SISO\_Ant1\_Low\_2412\_AV



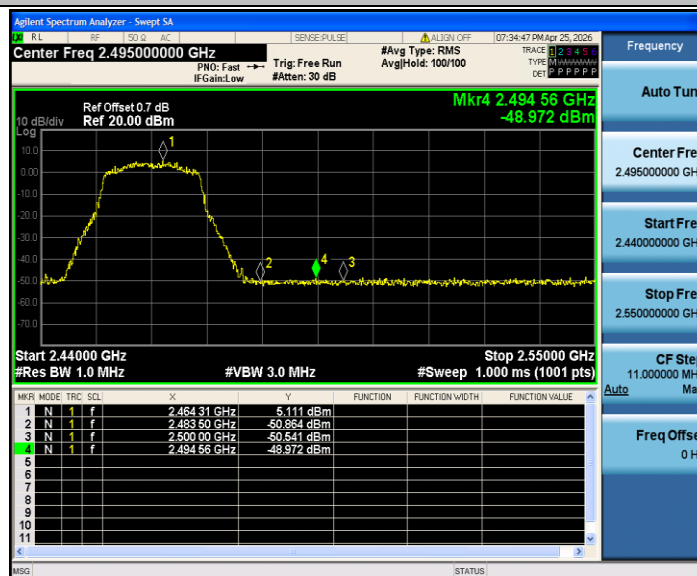
# 11AX20SISO\_Ant1\_Low\_2412\_Peak



11AX20SISO\_Ant1\_High\_2462\_AV



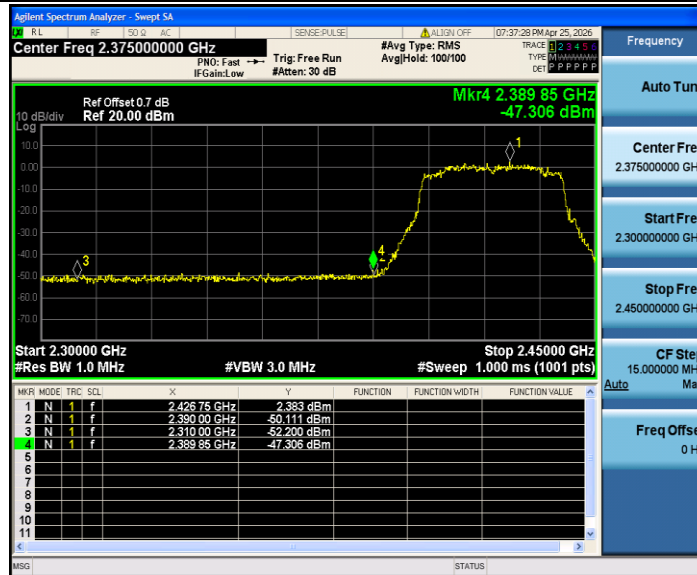
11AX20SISO\_Ant1\_High\_2462\_Peak



# 11AX40SISO\_Ant1\_Low\_2422\_AV



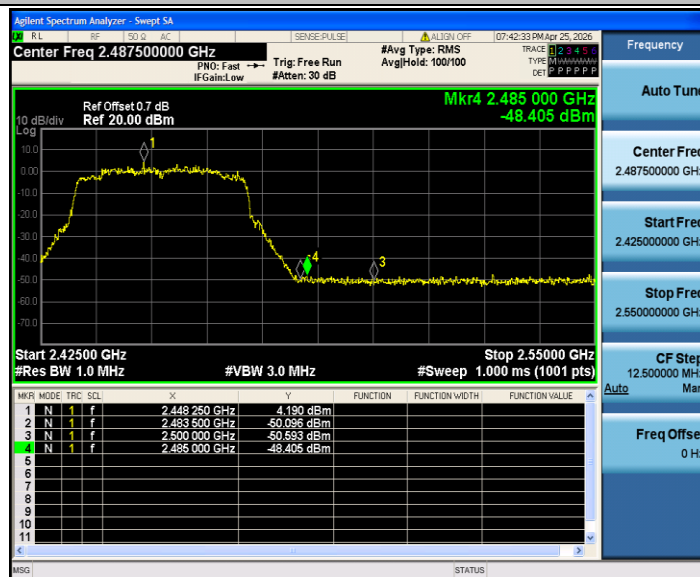
# 11AX40SISO\_Ant1\_Low\_2422\_Peak



# 11AX40SISO\_Ant1\_High\_2452\_AV



11AX40ISO\_Ant1\_High\_2452\_Peak



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## FCC Appendix RF Test Data for 2.4GWIFI Ant 2

### Appendix A: DTS Bandwidth

#### Test Result

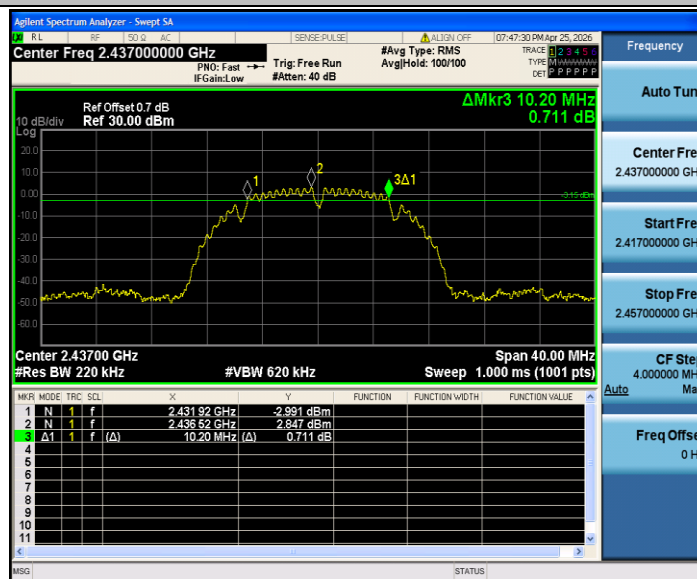
| TestMode   | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B        | Ant2    | 2412           | 10.240       | 2406.920 | 2417.160 | 0.5        | PASS    |
|            |         | 2437           | 10.200       | 2431.920 | 2442.120 | 0.5        | PASS    |
|            |         | 2462           | 10.200       | 2456.920 | 2467.120 | 0.5        | PASS    |
| 11G        | Ant2    | 2412           | 15.880       | 2403.960 | 2419.840 | 0.5        | PASS    |
|            |         | 2437           | 15.760       | 2429.240 | 2445.000 | 0.5        | PASS    |
|            |         | 2462           | 15.560       | 2454.320 | 2469.880 | 0.5        | PASS    |
| 11N20SISO  | Ant2    | 2412           | 16.360       | 2404.040 | 2420.400 | 0.5        | PASS    |
|            |         | 2437           | 15.360       | 2429.440 | 2444.800 | 0.5        | PASS    |
|            |         | 2462           | 16.880       | 2453.560 | 2470.440 | 0.5        | PASS    |
| 11N40SISO  | Ant2    | 2422           | 35.280       | 2404.800 | 2440.080 | 0.5        | PASS    |
|            |         | 2437           | 36.000       | 2419.080 | 2455.080 | 0.5        | PASS    |
|            |         | 2452           | 36.160       | 2433.920 | 2470.080 | 0.5        | PASS    |
| 11AX20SISO | Ant2    | 2412           | 18.520       | 2402.600 | 2421.120 | 0.5        | PASS    |
|            |         | 2437           | 18.640       | 2427.640 | 2446.280 | 0.5        | PASS    |
|            |         | 2462           | 18.520       | 2452.840 | 2471.360 | 0.5        | PASS    |
| 11AX40SISO | Ant2    | 2422           | 36.800       | 2404.160 | 2440.960 | 0.5        | PASS    |
|            |         | 2437           | 36.720       | 2418.200 | 2454.920 | 0.5        | PASS    |
|            |         | 2452           | 35.840       | 2434.400 | 2470.240 | 0.5        | PASS    |

## Test Graphs

11B\_Ant2\_2412



11B\_Ant2\_2437



11B\_Ant2\_2462



11G\_Ant2\_2412



11G\_Ant2\_2437



# 11G\_Ant2\_2462



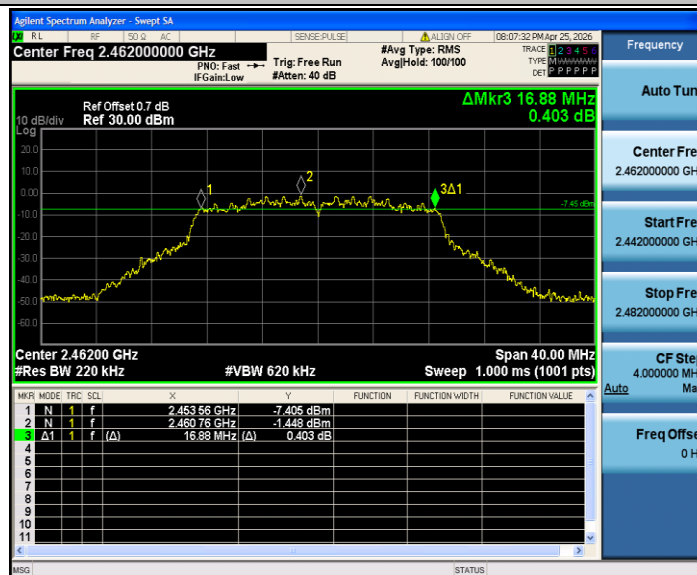
# 11N20SISO\_Ant2\_2412



# 11N20SISO\_Ant2\_2437



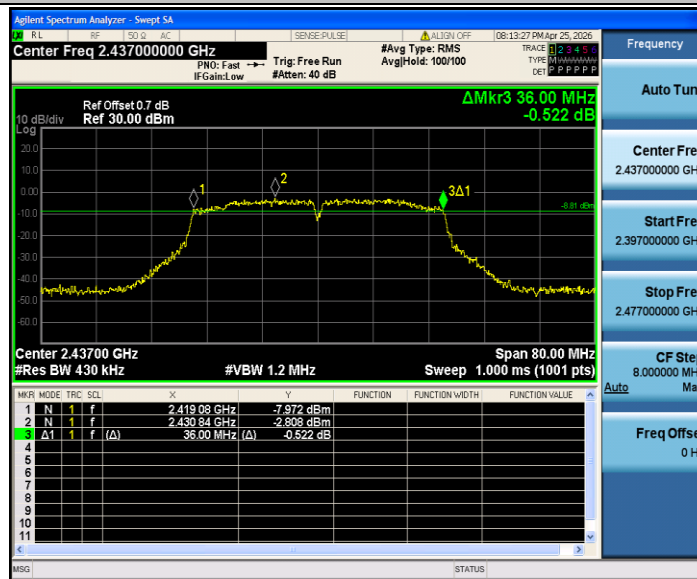
11N20SISO\_Ant2\_2462



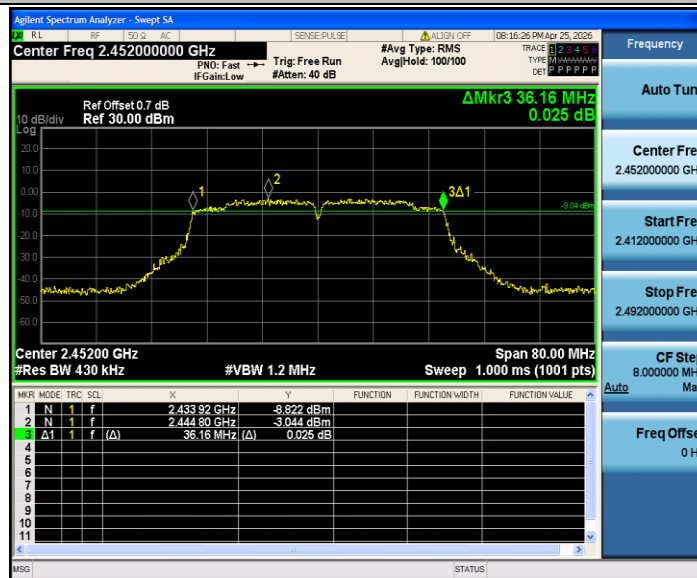
11N40SISO\_Ant2\_2422



# 11N40SISO\_Ant2\_2437



# 11N40SISO\_Ant2\_2452



# 11AX20SISO\_Ant2\_2412