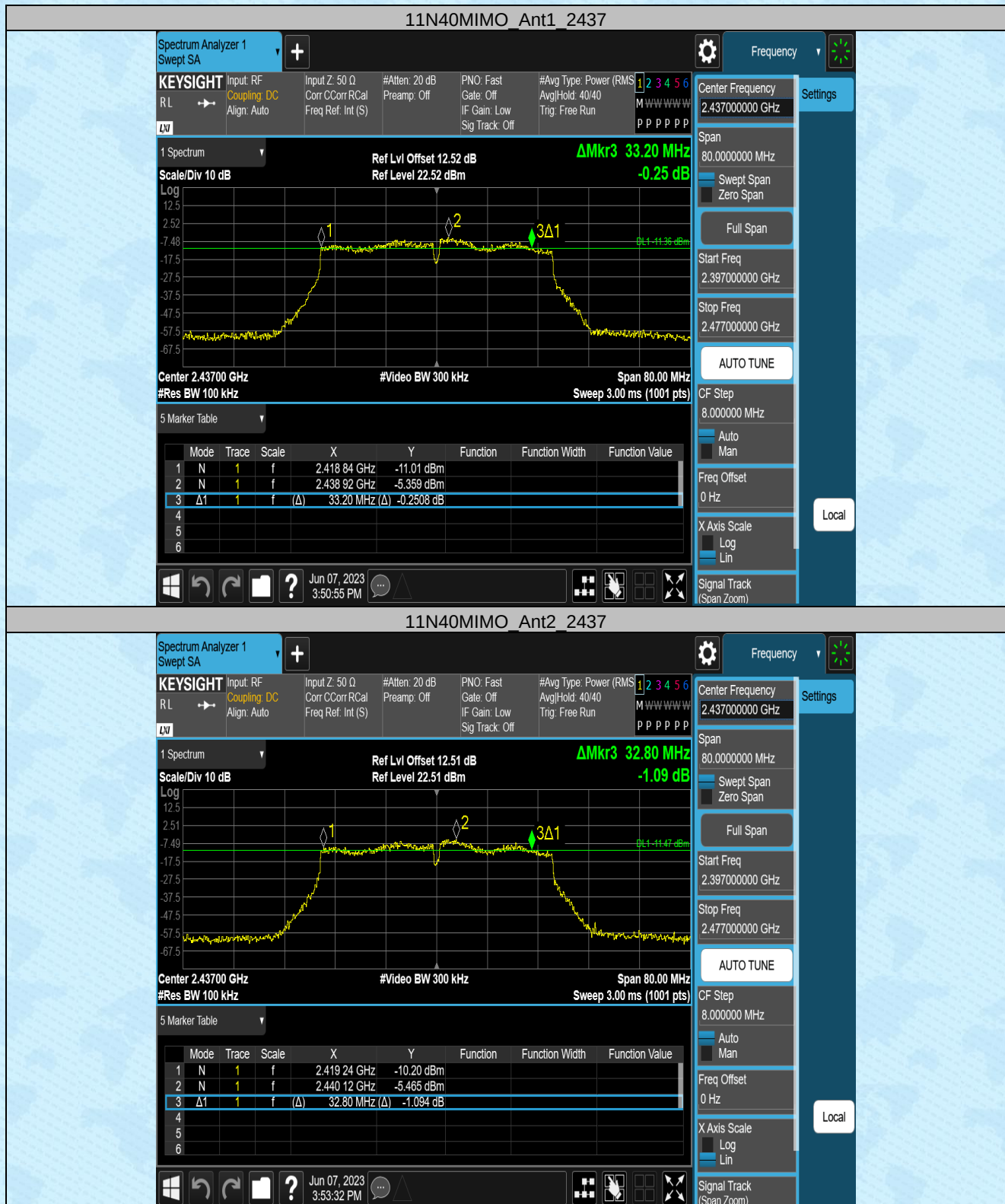
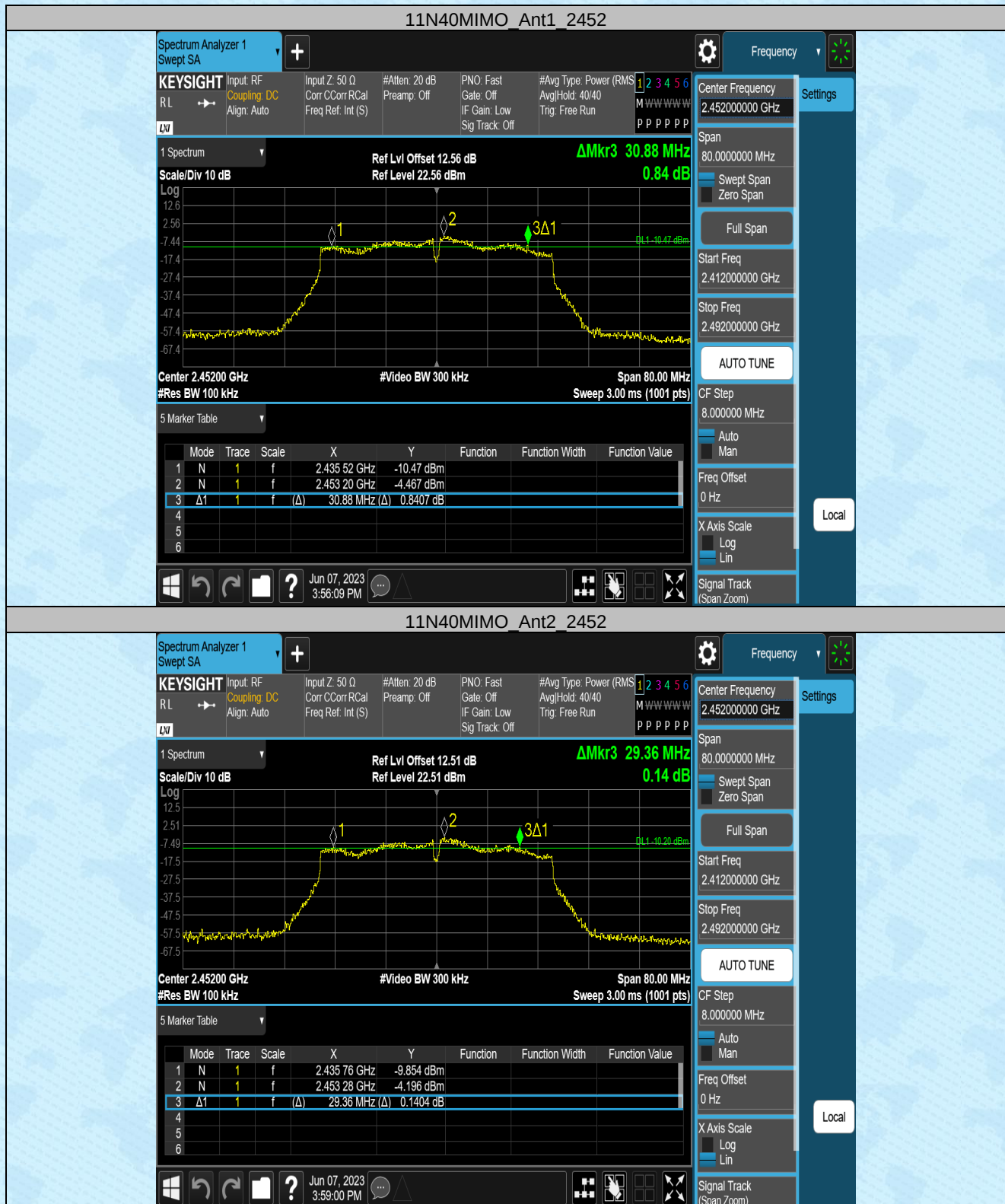




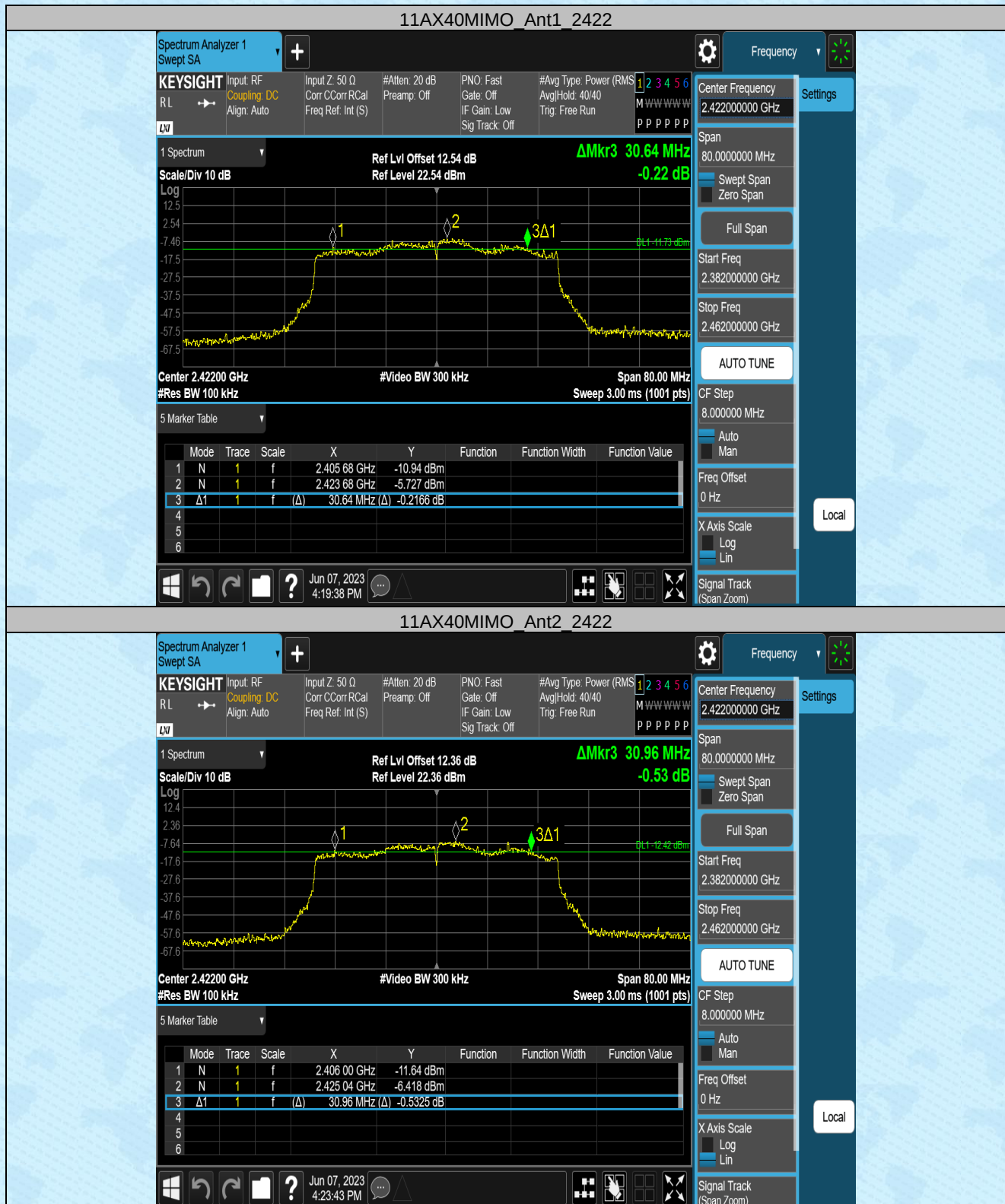




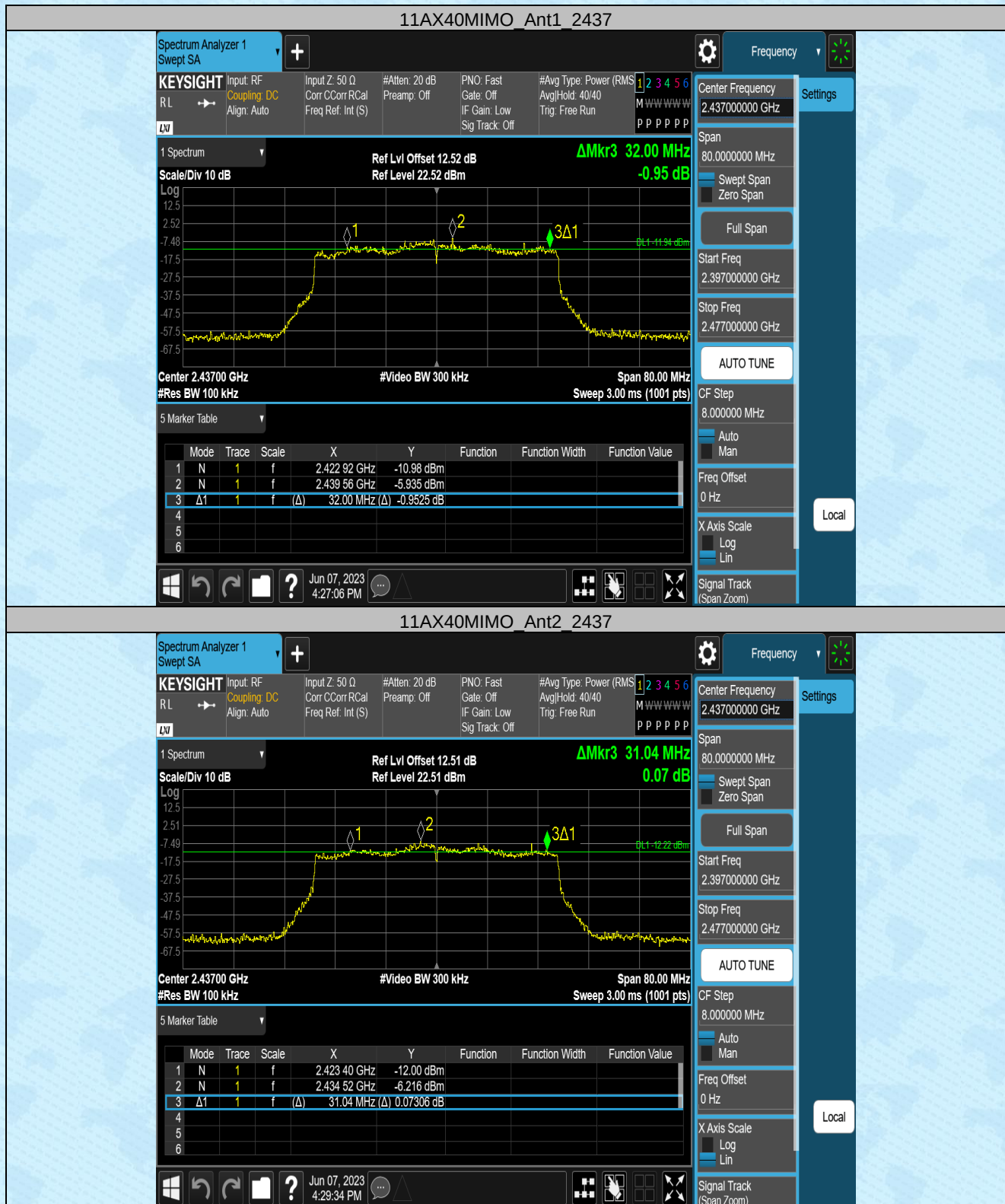


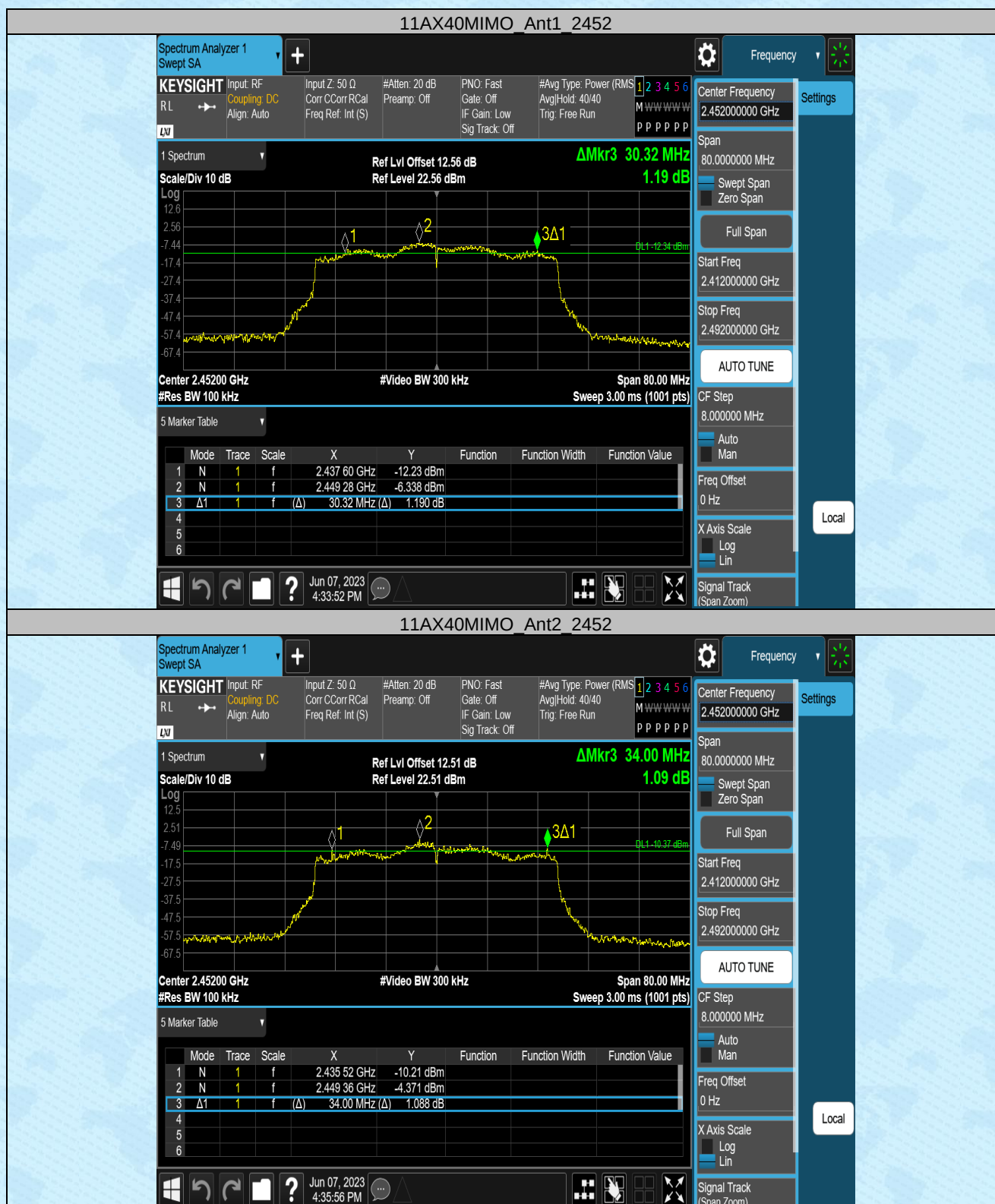














## Occupied Channel Bandwidth

| Test Mode  | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B-CDD    | Ant1    | 2412                   | 13.359    | 2405.4308 | 2418.7898 | ---        | ---     |
|            | Ant2    | 2412                   | 13.442    | 2405.5059 | 2418.9479 | ---        | ---     |
|            | Ant1    | 2437                   | 13.263    | 2430.2201 | 2443.4831 | ---        | ---     |
|            | Ant2    | 2437                   | 13.422    | 2430.4893 | 2443.9113 | ---        | ---     |
|            | Ant1    | 2462                   | 13.289    | 2455.1170 | 2468.4060 | ---        | ---     |
|            | Ant2    | 2462                   | 12.897    | 2455.4840 | 2468.3810 | ---        | ---     |
| 11G-CDD    | Ant1    | 2412                   | 16.332    | 2403.8742 | 2420.2062 | ---        | ---     |
|            | Ant2    | 2412                   | 16.248    | 2403.9894 | 2420.2374 | ---        | ---     |
|            | Ant1    | 2437                   | 16.168    | 2428.6897 | 2444.8577 | ---        | ---     |
|            | Ant2    | 2437                   | 16.308    | 2428.8994 | 2445.2074 | ---        | ---     |
|            | Ant1    | 2462                   | 16.357    | 2453.8199 | 2470.1769 | ---        | ---     |
|            | Ant2    | 2462                   | 16.264    | 2453.7531 | 2470.0171 | ---        | ---     |
| 11N20MIMO  | Ant1    | 2412                   | 17.590    | 2403.2352 | 2420.8252 | ---        | ---     |
|            | Ant2    | 2412                   | 17.593    | 2403.2946 | 2420.8876 | ---        | ---     |
|            | Ant1    | 2437                   | 17.561    | 2428.2455 | 2445.8065 | ---        | ---     |
|            | Ant2    | 2437                   | 17.564    | 2428.2828 | 2445.8468 | ---        | ---     |
|            | Ant1    | 2462                   | 17.432    | 2453.3187 | 2470.7507 | ---        | ---     |
|            | Ant2    | 2462                   | 17.414    | 2453.3047 | 2470.7187 | ---        | ---     |
| 11N40MIMO  | Ant1    | 2422                   | 35.499    | 2404.1447 | 2439.6437 | ---        | ---     |
|            | Ant2    | 2422                   | 35.579    | 2404.1483 | 2439.7273 | ---        | ---     |
|            | Ant1    | 2437                   | 35.942    | 2418.9412 | 2454.8832 | ---        | ---     |
|            | Ant2    | 2437                   | 35.852    | 2418.9807 | 2454.8327 | ---        | ---     |
|            | Ant1    | 2452                   | 35.736    | 2433.9937 | 2469.7297 | ---        | ---     |
|            | Ant2    | 2452                   | 35.710    | 2433.9614 | 2469.6714 | ---        | ---     |
| 11AX20MIMO | Ant1    | 2412                   | 18.668    | 2402.6915 | 2421.3595 | ---        | ---     |
|            | Ant2    | 2412                   | 18.759    | 2402.6242 | 2421.3832 | ---        | ---     |
|            | Ant1    | 2437                   | 18.822    | 2427.5934 | 2446.4154 | ---        | ---     |
|            | Ant2    | 2437                   | 18.841    | 2427.5813 | 2446.4223 | ---        | ---     |
|            | Ant1    | 2462                   | 18.710    | 2452.5843 | 2471.2943 | ---        | ---     |
|            | Ant2    | 2462                   | 18.725    | 2452.5894 | 2471.3144 | ---        | ---     |
| 11AX40MIMO | Ant1    | 2422                   | 37.220    | 2403.3916 | 2440.6116 | ---        | ---     |
|            | Ant2    | 2422                   | 37.231    | 2403.3858 | 2440.6168 | ---        | ---     |
|            | Ant1    | 2437                   | 37.684    | 2418.1869 | 2455.8709 | ---        | ---     |
|            | Ant2    | 2437                   | 37.531    | 2418.2656 | 2455.7966 | ---        | ---     |
|            | Ant1    | 2452                   | 37.178    | 2433.4288 | 2470.6068 | ---        | ---     |
|            | Ant2    | 2452                   | 37.302    | 2433.3463 | 2470.6483 | ---        | ---     |

















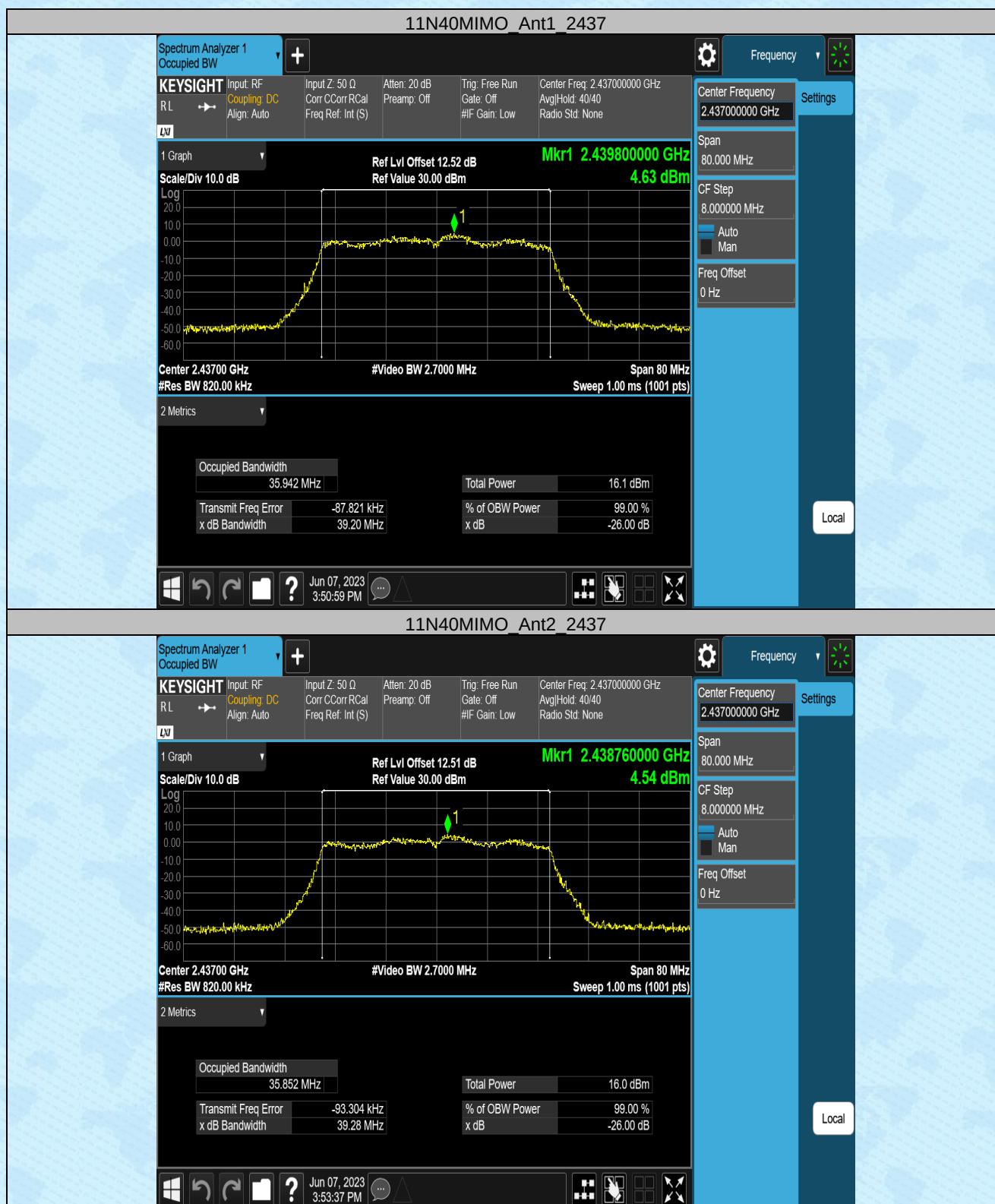














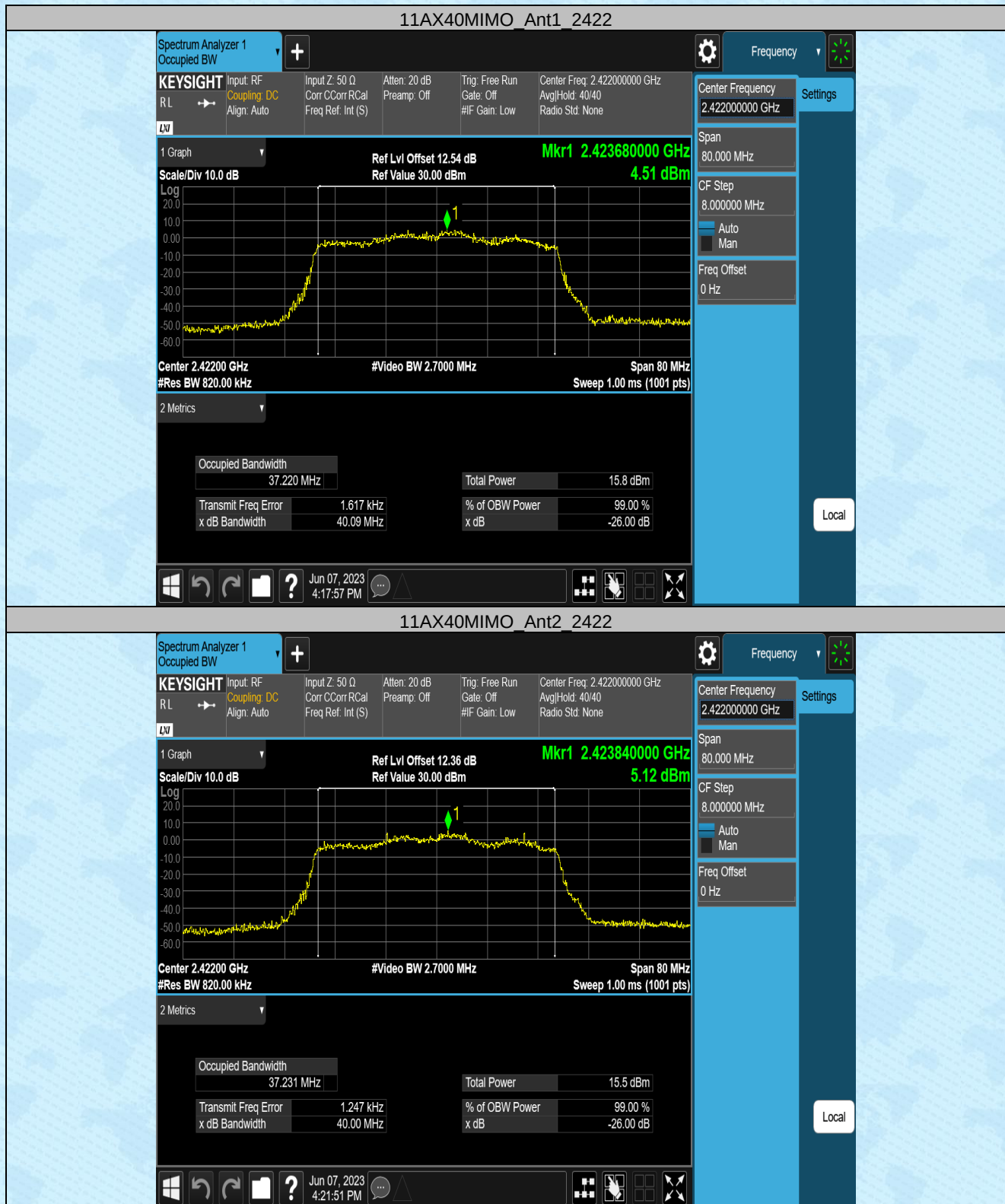


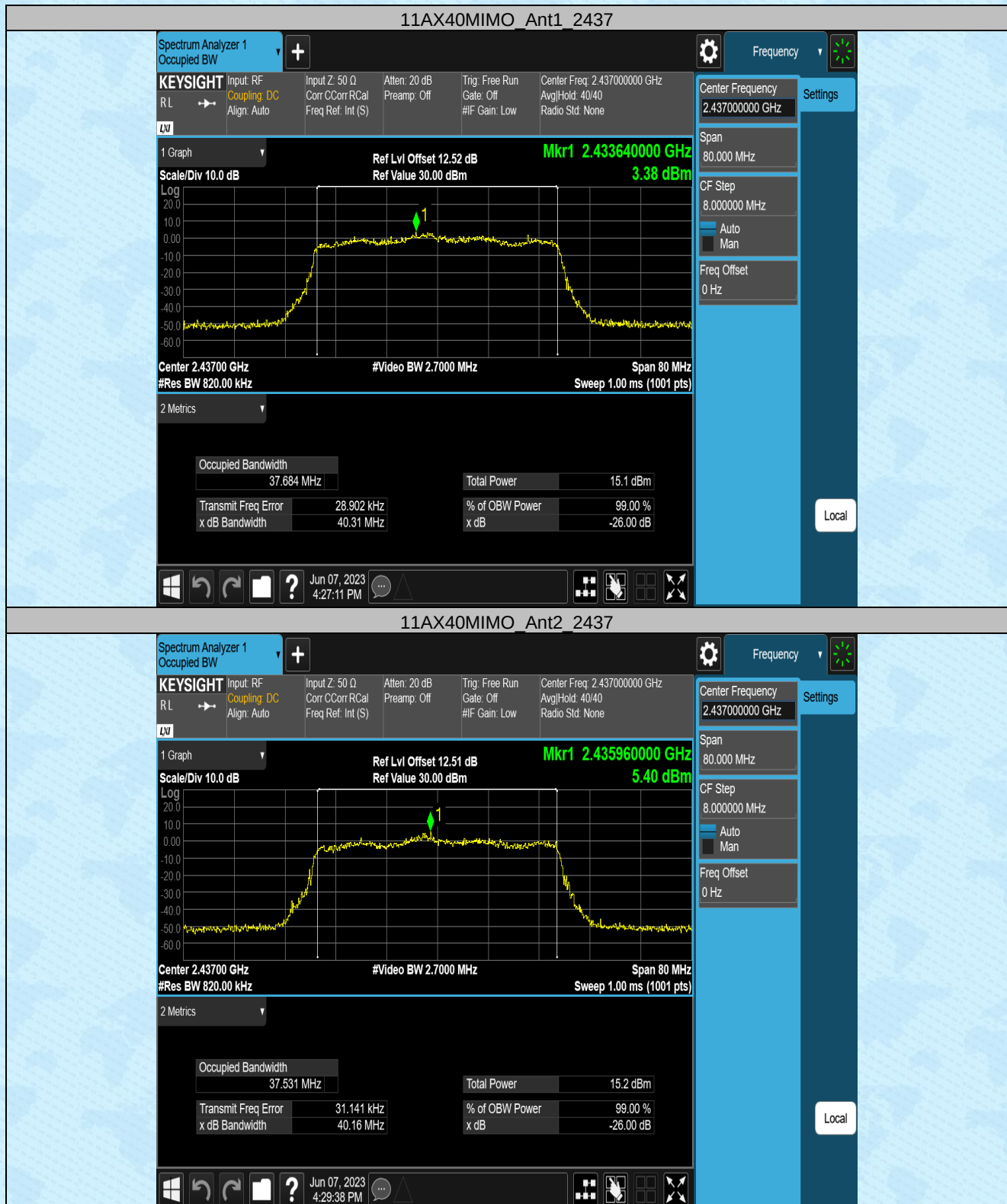


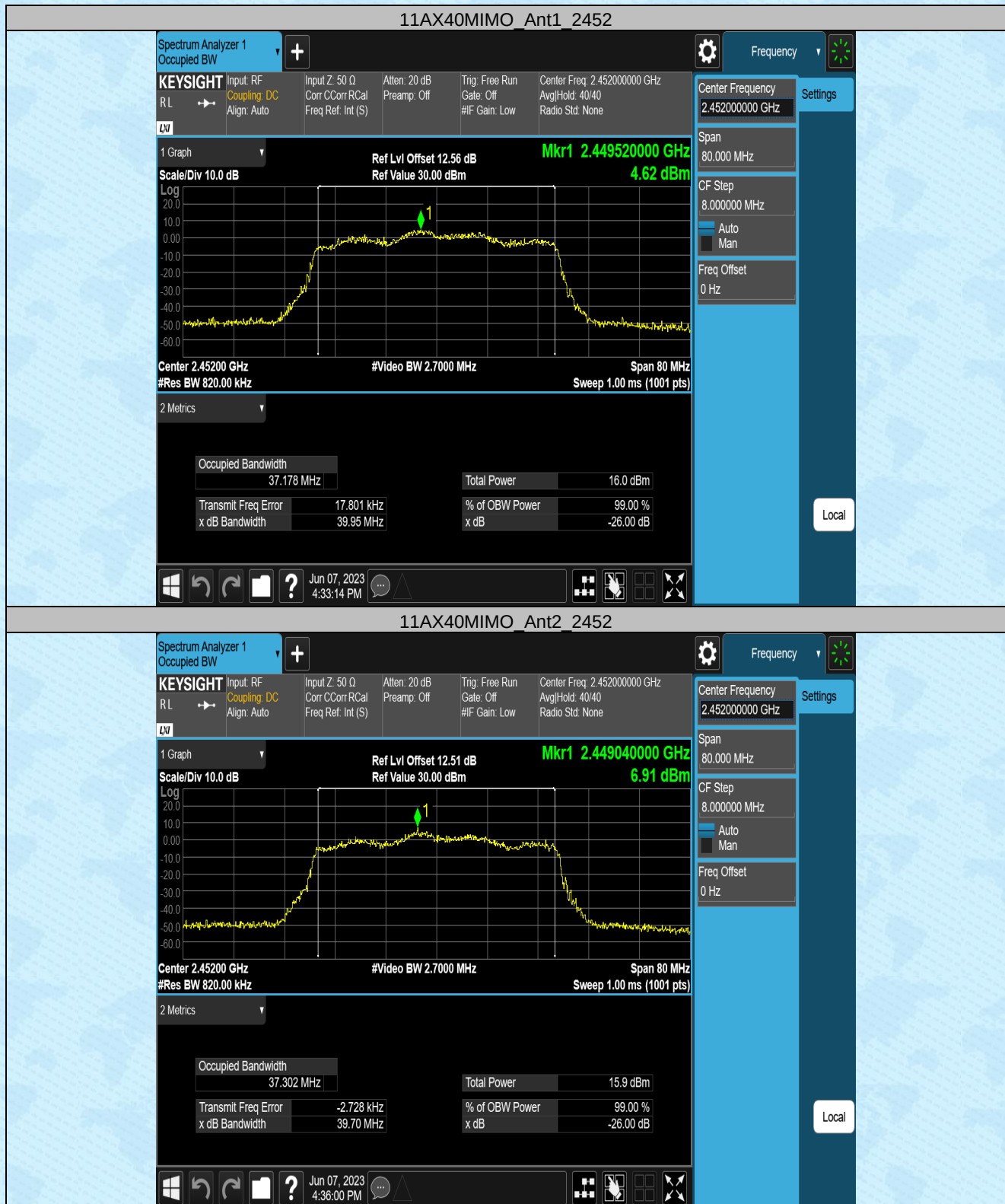






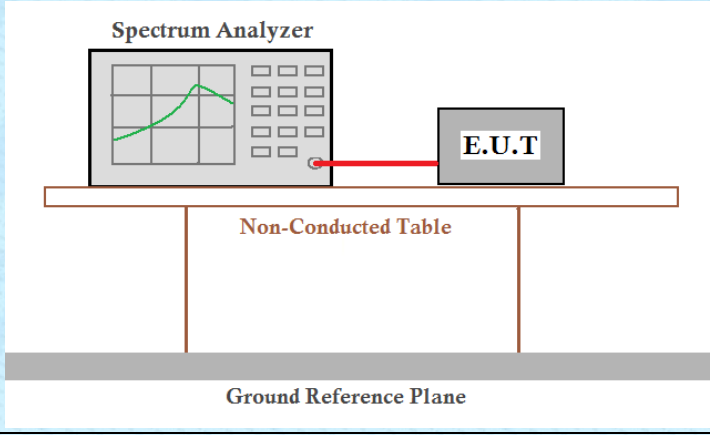








## 7.5 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247 (e)                                                                                                                                                                                                                                                                                |
| Test Method:      | KDB558074 D01 15.247 Meas Guidance v05r02<br>FCC KDB 662911 D01 Multiple Transmitter Output v02r01                                                                                                                                                                                                             |
| Limit:            | 8dBm/3kHz                                                                                                                                                                                                                                                                                                      |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                               |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                               |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                           |

### Measurement Data:

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B-CDD   | Ant1    | 2412           | -9.18            | $\leq 7.34$     | PASS    |
|           | Ant2    | 2412           | -7.31            | $\leq 7.34$     | PASS    |
|           | total   | 2412           | -5.13            | $\leq 7.34$     | PASS    |
|           | Ant1    | 2437           | -8.9             | $\leq 7.34$     | PASS    |
|           | Ant2    | 2437           | -8.56            | $\leq 7.34$     | PASS    |
|           | total   | 2437           | -5.72            | $\leq 7.34$     | PASS    |
|           | Ant1    | 2462           | -7.63            | $\leq 7.34$     | PASS    |
|           | Ant2    | 2462           | -6.3             | $\leq 7.34$     | PASS    |
|           | total   | 2462           | -3.90            | $\leq 7.34$     | PASS    |
| 11G-CDD   | Ant1    | 2412           | -16.7            | $\leq 7.34$     | PASS    |
|           | Ant2    | 2412           | -15.83           | $\leq 7.34$     | PASS    |
|           | total   | 2412           | -13.23           | $\leq 7.34$     | PASS    |
|           | Ant1    | 2437           | -15.11           | $\leq 7.34$     | PASS    |
|           | Ant2    | 2437           | -14.61           | $\leq 7.34$     | PASS    |
|           | total   | 2437           | -11.84           | $\leq 7.34$     | PASS    |
|           | Ant1    | 2462           | -15.68           | $\leq 7.34$     | PASS    |
|           | Ant2    | 2462           | -16.77           | $\leq 7.34$     | PASS    |
|           | total   | 2462           | -13.18           | $\leq 7.34$     | PASS    |
| 11N20MIMO | Ant1    | 2412           | -15.99           | $\leq 7.34$     | PASS    |
|           | Ant2    | 2412           | -15.59           | $\leq 7.34$     | PASS    |
|           | total   | 2412           | -12.78           | $\leq 7.34$     | PASS    |
|           | Ant1    | 2437           | -15.39           | $\leq 7.34$     | PASS    |
|           | Ant2    | 2437           | -15.09           | $\leq 7.34$     | PASS    |

|            |       |      |        |             |      |
|------------|-------|------|--------|-------------|------|
|            | total | 2437 | -12.23 | $\leq 7.34$ | PASS |
|            | Ant1  | 2462 | -15.63 | $\leq 7.34$ | PASS |
|            | Ant2  | 2462 | -15.79 | $\leq 7.34$ | PASS |
|            | total | 2462 | -12.70 | $\leq 7.34$ | PASS |
| 11N40MIMO  | Ant1  | 2422 | -17.03 | $\leq 7.34$ | PASS |
|            | Ant2  | 2422 | -17.05 | $\leq 7.34$ | PASS |
|            | total | 2422 | -14.03 | $\leq 7.34$ | PASS |
|            | Ant1  | 2437 | -17.3  | $\leq 7.34$ | PASS |
|            | Ant2  | 2437 | -18.1  | $\leq 7.34$ | PASS |
|            | total | 2437 | -14.67 | $\leq 7.34$ | PASS |
|            | Ant1  | 2452 | -15.37 | $\leq 7.34$ | PASS |
|            | Ant2  | 2452 | -15.74 | $\leq 7.34$ | PASS |
|            | total | 2452 | -12.54 | $\leq 7.34$ | PASS |
|            | Ant1  | 2412 | -17.03 | $\leq 7.34$ | PASS |
| 11AX20MIMO | Ant2  | 2412 | -15.79 | $\leq 7.34$ | PASS |
|            | total | 2412 | -13.36 | $\leq 7.34$ | PASS |
|            | Ant1  | 2437 | -16.44 | $\leq 7.34$ | PASS |
|            | Ant2  | 2437 | -16.42 | $\leq 7.34$ | PASS |
|            | total | 2437 | -13.42 | $\leq 7.34$ | PASS |
|            | Ant1  | 2462 | -16.91 | $\leq 7.34$ | PASS |
|            | Ant2  | 2462 | -16.32 | $\leq 7.34$ | PASS |
|            | total | 2462 | -13.59 | $\leq 7.34$ | PASS |
|            | Ant1  | 2422 | -17.42 | $\leq 7.34$ | PASS |
| 11AX40MIMO | Ant2  | 2422 | -16.93 | $\leq 7.34$ | PASS |
|            | total | 2422 | -14.16 | $\leq 7.34$ | PASS |
|            | Ant1  | 2437 | -18.58 | $\leq 7.34$ | PASS |
|            | Ant2  | 2437 | -18.98 | $\leq 7.34$ | PASS |
|            | total | 2437 | -15.77 | $\leq 7.34$ | PASS |
|            | Ant1  | 2452 | -16.47 | $\leq 7.34$ | PASS |
|            | Ant2  | 2452 | -16.31 | $\leq 7.34$ | PASS |
|            | total | 2452 | -13.38 | $\leq 7.34$ | PASS |

| Frequency[MHz]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANT 1 Antenna Gain (dBi) | ANT 2 Antenna Gain (dBi) | Correlated chains directional gain (dBi) | Peak Power Limit (dBm) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------------------------|------------------------|
| 2412-2462                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.39                     | 2.75                     | 6.66                                     | 7.34                   |
| Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi<br>If transmit signals are correlated, then Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi<br>[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]<br>2412-2462: Directional gain = $10 \log[(10^{4.39/20} + 10^{2.75/20})^2 / N_{ANT}]$ dBi=6.66 |                          |                          |                                          |                        |

Note: Beamforming conducted power less than no beamforming conducted power, so only no beamforming conducted power spectral density was recorded.

