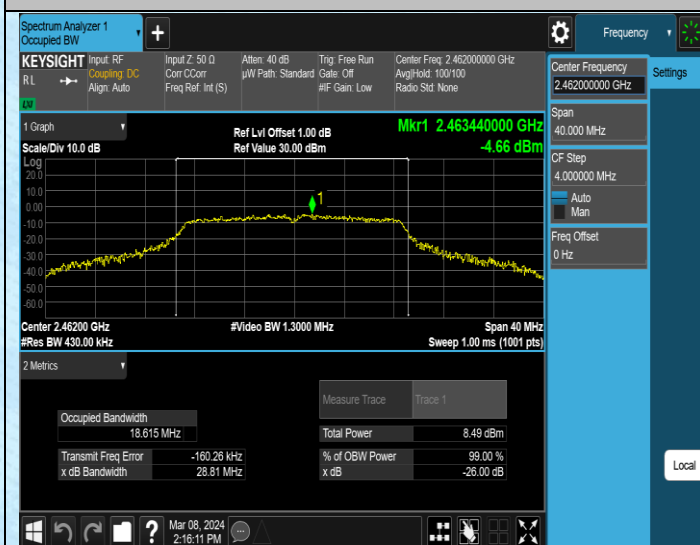
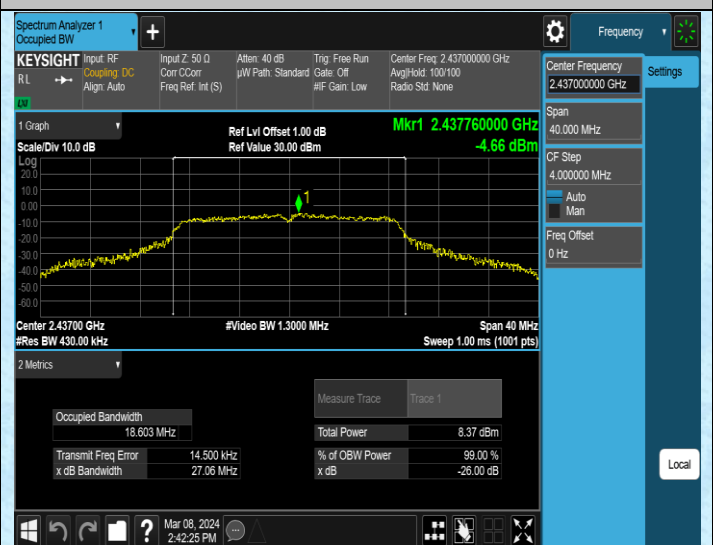
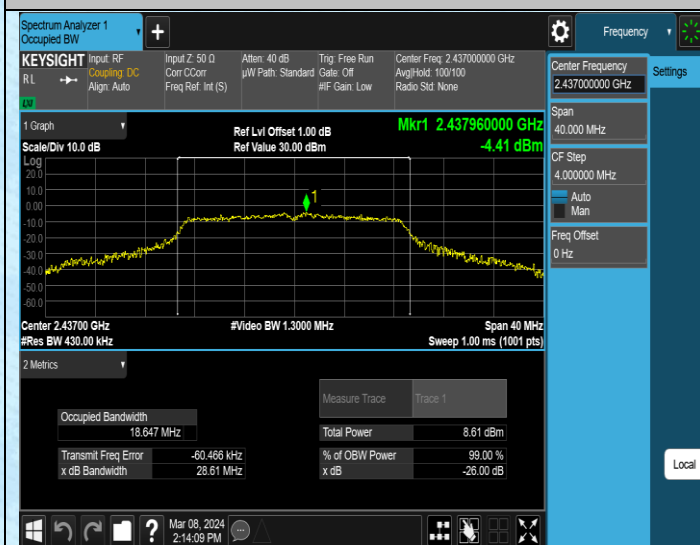
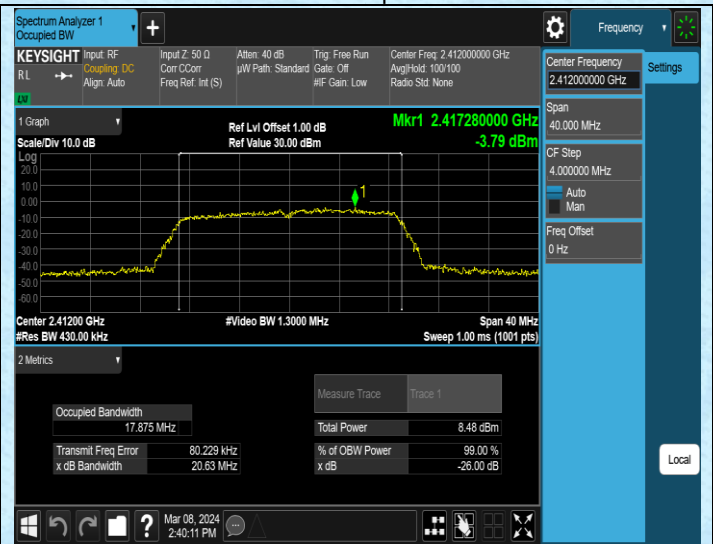
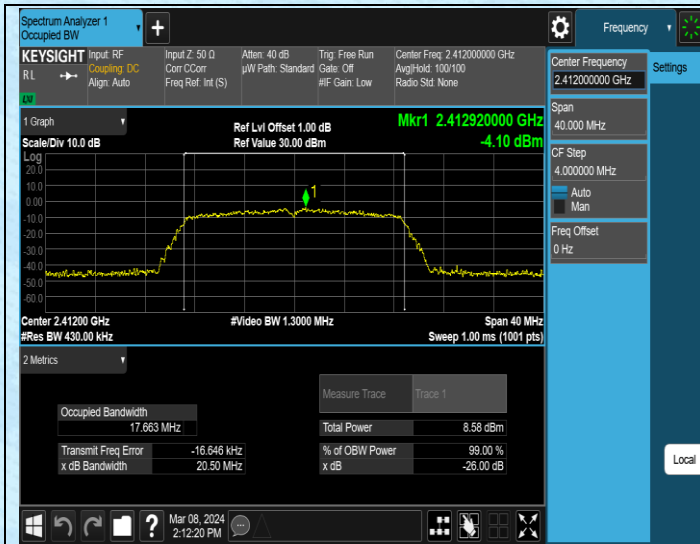
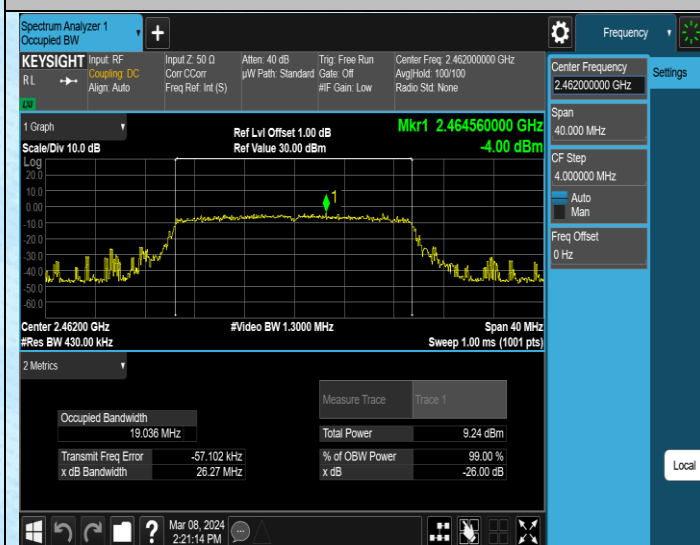
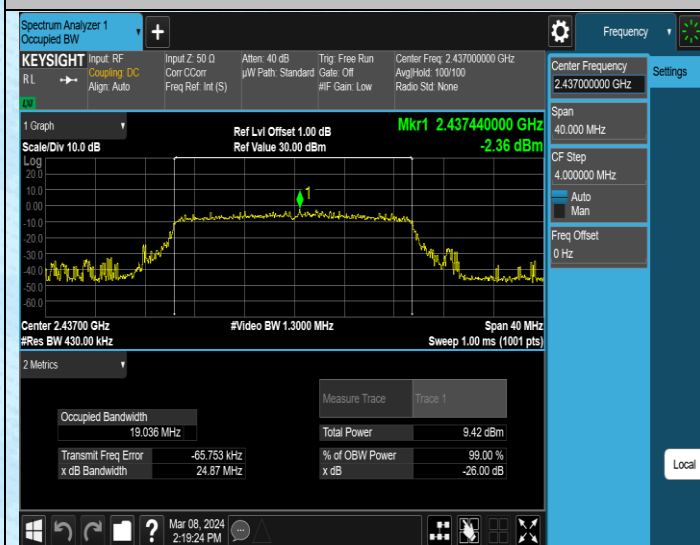
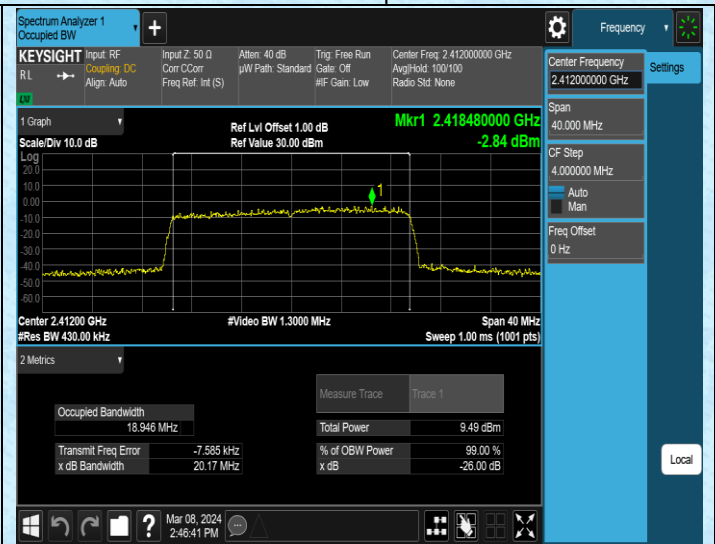
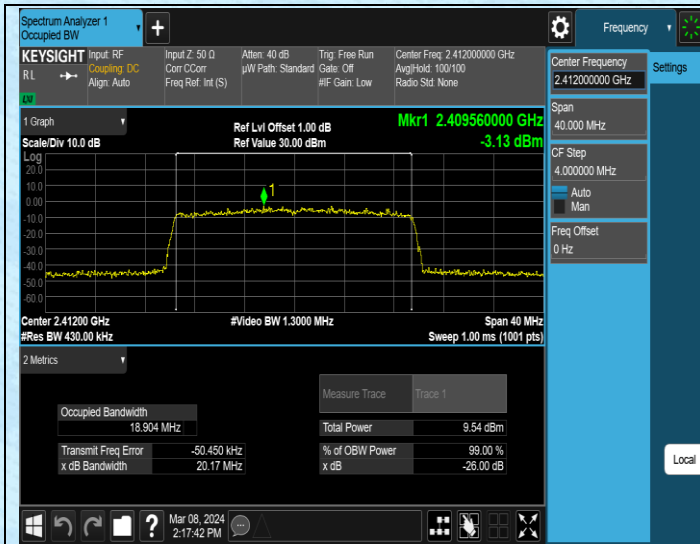
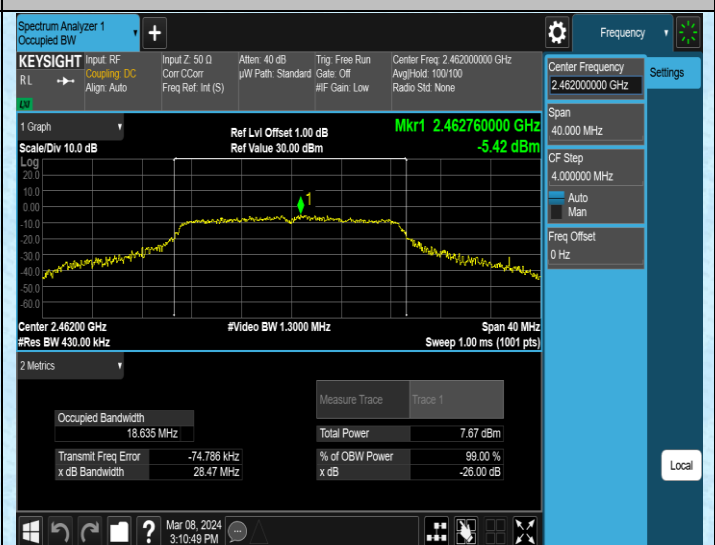
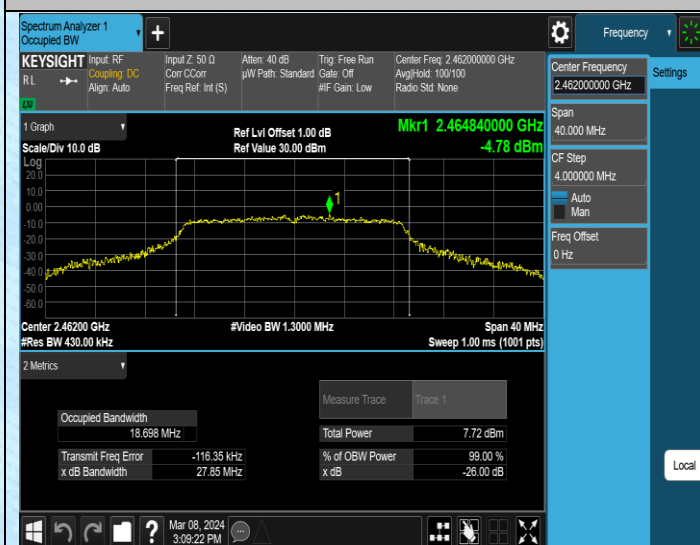
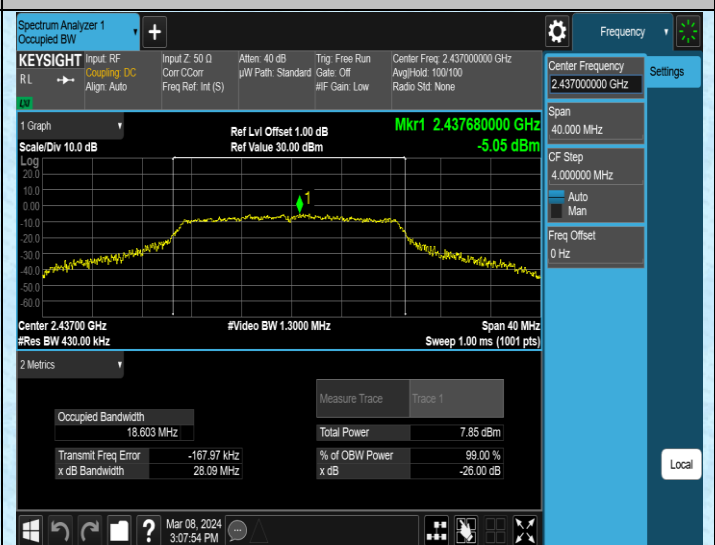
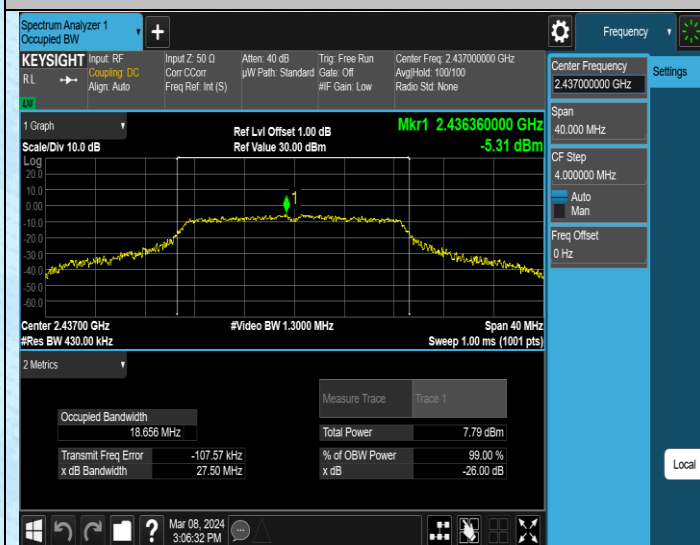
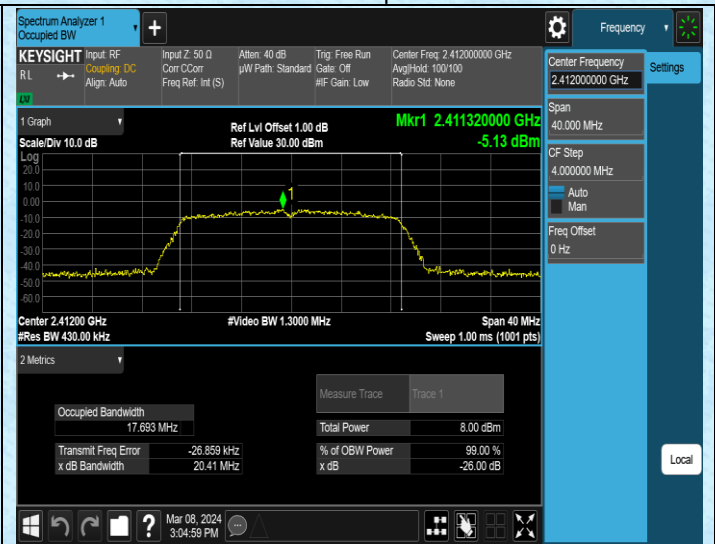
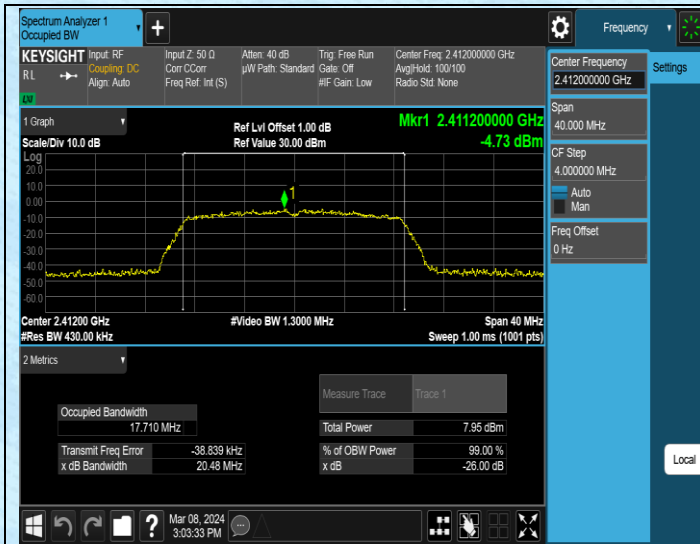
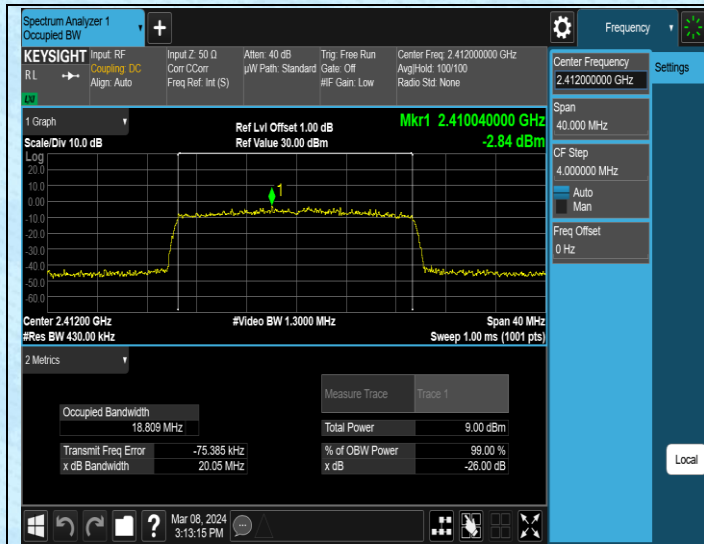


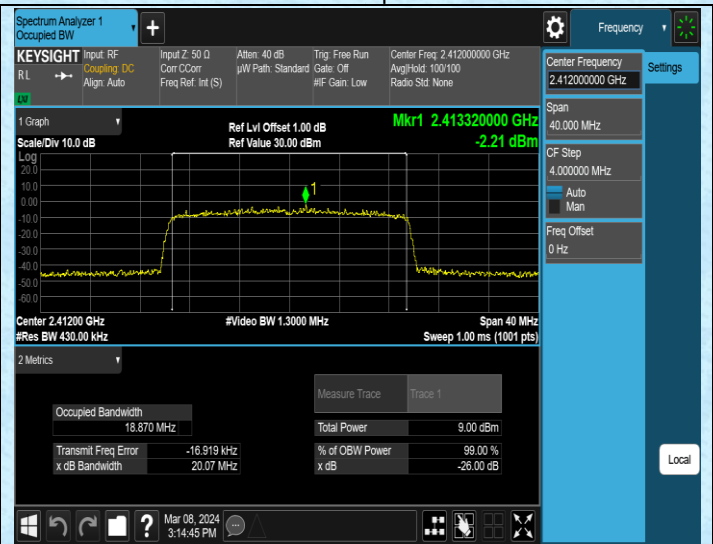




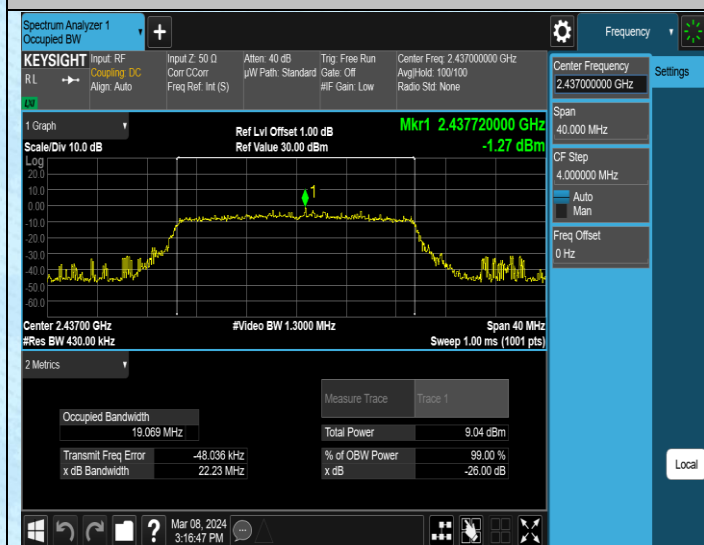




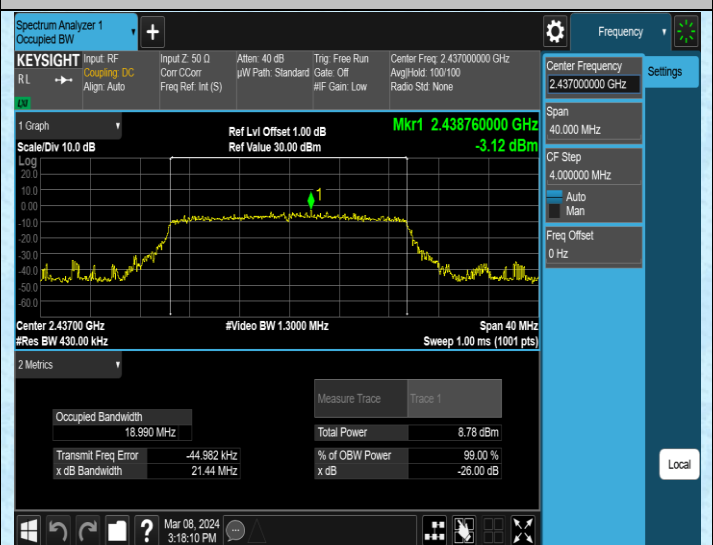
11AX20MIMO-Ant1-2412



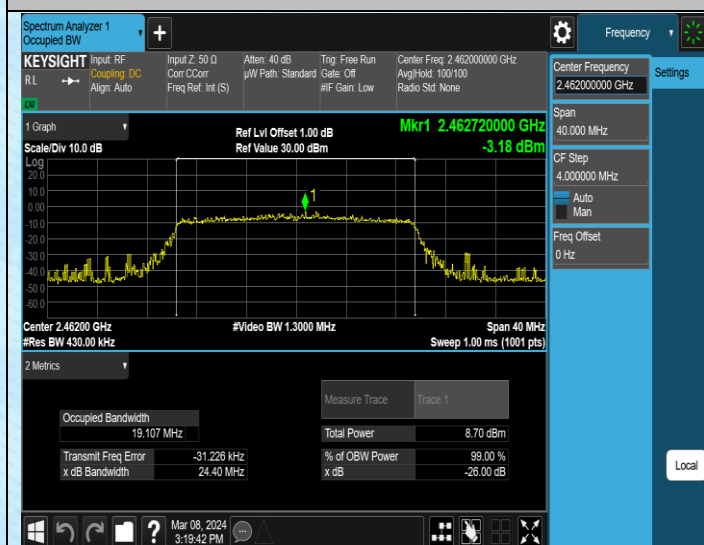
11AX20MIMO-Ant2-2412



11AX20MIMO-Ant1-2437



11AX20MIMO-Ant2-2437



11AX20MIMO-Ant1-2462



11AX20MIMO-Ant2-2462

## AppendixC: Maximum conducted output power

### Test Result Peak

| Test Mode  | Antenna | Frequency [MHz] | Rate  | Peak Power[dBm] | Conducted Limit[dBm] | Gain [dBi] | EIRP [dBm] | Verdict |
|------------|---------|-----------------|-------|-----------------|----------------------|------------|------------|---------|
| 11B        | Ant1    | 2412            | 1Mbps | 10.49           | ≤28.70               | 7.30       | 17.79      | PASS    |
| 11B        | Ant2    | 2412            | 1Mbps | 10.27           | ≤28.50               | 7.50       | 17.77      | PASS    |
| 11B        | Ant1    | 2437            | 1Mbps | 10.37           | ≤28.70               | 7.30       | 17.67      | PASS    |
| 11B        | Ant2    | 2437            | 1Mbps | 10.16           | ≤28.50               | 7.50       | 17.66      | PASS    |
| 11B        | Ant1    | 2462            | 1Mbps | 10.22           | ≤28.70               | 7.30       | 17.52      | PASS    |
| 11B        | Ant2    | 2462            | 1Mbps | 10.19           | ≤28.50               | 7.50       | 17.69      | PASS    |
| 11G        | Ant1    | 2412            | 6Mbps | 10.45           | ≤28.70               | 7.30       | 17.75      | PASS    |
| 11G        | Ant2    | 2412            | 6Mbps | 10.58           | ≤28.50               | 7.50       | 18.08      | PASS    |
| 11G        | Ant1    | 2437            | 6Mbps | 10.69           | ≤28.70               | 7.30       | 17.99      | PASS    |
| 11G        | Ant2    | 2437            | 6Mbps | 10.34           | ≤28.50               | 7.50       | 17.84      | PASS    |
| 11G        | Ant1    | 2462            | 6Mbps | 10.59           | ≤28.70               | 7.30       | 17.89      | PASS    |
| 11G        | Ant2    | 2462            | 6Mbps | 10.50           | ≤28.50               | 7.50       | 18.00      | PASS    |
| 11N20SISO  | Ant1    | 2412            | MCS0  | 9.91            | ≤28.70               | 7.30       | 17.21      | PASS    |
| 11N20SISO  | Ant2    | 2412            | MCS0  | 9.72            | ≤28.50               | 7.50       | 17.22      | PASS    |
| 11N20SISO  | Ant1    | 2437            | MCS0  | 9.50            | ≤28.70               | 7.30       | 16.80      | PASS    |
| 11N20SISO  | Ant2    | 2437            | MCS0  | 9.37            | ≤28.50               | 7.50       | 16.87      | PASS    |
| 11N20SISO  | Ant1    | 2462            | MCS0  | 9.91            | ≤28.70               | 7.30       | 17.21      | PASS    |
| 11N20SISO  | Ant2    | 2462            | MCS0  | 9.41            | ≤28.50               | 7.50       | 16.91      | PASS    |
| 11AX20SISO | Ant1    | 2412            | MCS0  | 9.95            | ≤28.70               | 7.30       | 17.25      | PASS    |
| 11AX20SISO | Ant2    | 2412            | MCS0  | 10.03           | ≤28.50               | 7.50       | 17.53      | PASS    |
| 11AX20SISO | Ant1    | 2437            | MCS0  | 9.82            | ≤28.70               | 7.30       | 17.12      | PASS    |
| 11AX20SISO | Ant2    | 2437            | MCS0  | 9.87            | ≤28.50               | 7.50       | 17.37      | PASS    |
| 11AX20SISO | Ant1    | 2462            | MCS0  | 9.92            | ≤28.70               | 7.30       | 17.22      | PASS    |
| 11AX20SISO | Ant2    | 2462            | MCS0  | 9.60            | ≤28.50               | 7.50       | 17.10      | PASS    |
| 11N20MIMO  | Ant1    | 2412            | MCS0  | 9.07            | ≤28.70               | 7.30       | 16.37      | PASS    |
| 11N20MIMO  | Ant2    | 2412            | MCS0  | 9.05            | ≤28.50               | 7.50       | 16.55      | PASS    |
| 11N20MIMO  | total   | 2412            | MCS0  | 12.07           | ≤25.59               | 10.41      | 22.48      | PASS    |
| 11N20MIMO  | Ant1    | 2437            | MCS0  | 8.87            | ≤28.70               | 7.30       | 16.17      | PASS    |
| 11N20MIMO  | Ant2    | 2437            | MCS0  | 8.63            | ≤28.50               | 7.50       | 16.13      | PASS    |
| 11N20MIMO  | total   | 2437            | MCS0  | 11.76           | ≤25.59               | 10.41      | 22.17      | PASS    |
| 11N20MIMO  | Ant1    | 2462            | MCS0  | 8.99            | ≤28.70               | 7.30       | 16.29      | PASS    |
| 11N20MIMO  | Ant2    | 2462            | MCS0  | 8.99            | ≤28.50               | 7.50       | 16.49      | PASS    |
| 11N20MIMO  | total   | 2462            | MCS0  | 12.00           | ≤25.59               | 10.41      | 22.41      | PASS    |
| 11AX20MIMO | Ant1    | 2412            | MCS0  | 9.45            | ≤28.70               | 7.30       | 16.75      | PASS    |
| 11AX20MIMO | Ant2    | 2412            | MCS0  | 9.21            | ≤28.50               | 7.50       | 16.71      | PASS    |
| 11AX20MIMO | total   | 2412            | MCS0  | 12.34           | ≤25.59               | 10.41      | 22.75      | PASS    |
| 11AX20MIMO | Ant1    | 2437            | MCS0  | 9.00            | ≤28.70               | 7.30       | 16.30      | PASS    |

|            |       |      |      |       |        |       |       |      |
|------------|-------|------|------|-------|--------|-------|-------|------|
| 11AX20MIMO | Ant2  | 2437 | MCS0 | 9.00  | ≤28.50 | 7.50  | 16.50 | PASS |
| 11AX20MIMO | total | 2437 | MCS0 | 12.01 | ≤25.59 | 10.41 | 22.42 | PASS |
| 11AX20MIMO | Ant1  | 2462 | MCS0 | 9.20  | ≤28.70 | 7.30  | 16.50 | PASS |
| 11AX20MIMO | Ant2  | 2462 | MCS0 | 8.67  | ≤28.50 | 7.50  | 16.17 | PASS |
| 11AX20MIMO | total | 2462 | MCS0 | 11.95 | ≤25.59 | 10.41 | 22.36 | PASS |

\*FCC CFR Title 47 Part 15 Subpart C Section 15.247(b)(4):

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

So MIMO limit:  $30 - (10.41 - 6) = 25.59 \text{ dBm}$

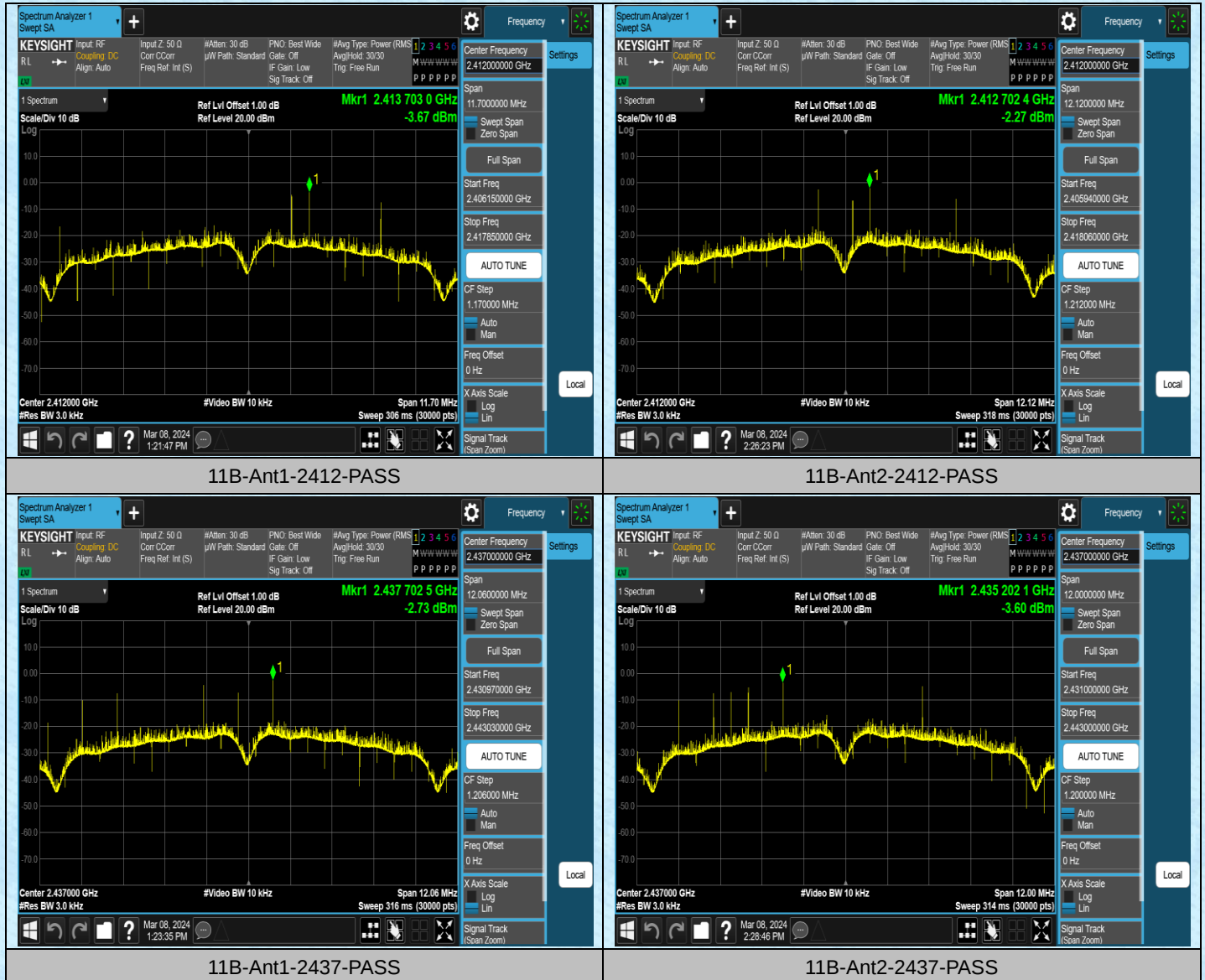
## AppendixD: Maximum power spectral density

### Test Result

| Test Mode  | Antenna | Frequency[MHz] | Rate  | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|----------------|-------|----------------------|-----------------|---------|
| 11B        | Ant1    | 2412           | 1Mbps | -3.67                | ≤6.70           | PASS    |
| 11B        | Ant2    | 2412           | 1Mbps | -2.27                | ≤6.50           | PASS    |
| 11B        | Ant1    | 2437           | 1Mbps | -2.73                | ≤6.70           | PASS    |
| 11B        | Ant2    | 2437           | 1Mbps | -3.6                 | ≤6.50           | PASS    |
| 11B        | Ant1    | 2462           | 1Mbps | -4.03                | ≤6.70           | PASS    |
| 11B        | Ant2    | 2462           | 1Mbps | -4.87                | ≤6.50           | PASS    |
| 11G        | Ant1    | 2412           | 6Mbps | -22.47               | ≤6.70           | PASS    |
| 11G        | Ant2    | 2412           | 6Mbps | -23.6                | ≤6.50           | PASS    |
| 11G        | Ant1    | 2437           | 6Mbps | -22.84               | ≤6.70           | PASS    |
| 11G        | Ant2    | 2437           | 6Mbps | -23.68               | ≤6.50           | PASS    |
| 11G        | Ant1    | 2462           | 6Mbps | -23.4                | ≤6.70           | PASS    |
| 11G        | Ant2    | 2462           | 6Mbps | -22.36               | ≤6.50           | PASS    |
| 11N20SISO  | Ant1    | 2412           | MCS0  | -23.03               | ≤6.70           | PASS    |
| 11N20SISO  | Ant2    | 2412           | MCS0  | -23.87               | ≤6.50           | PASS    |
| 11N20SISO  | Ant1    | 2437           | MCS0  | -23.77               | ≤6.70           | PASS    |
| 11N20SISO  | Ant2    | 2437           | MCS0  | -24.16               | ≤6.50           | PASS    |
| 11N20SISO  | Ant1    | 2462           | MCS0  | -24.17               | ≤6.70           | PASS    |
| 11N20SISO  | Ant2    | 2462           | MCS0  | -24.06               | ≤6.50           | PASS    |
| 11AX20SISO | Ant1    | 2412           | MCS0  | -23.45               | ≤6.70           | PASS    |
| 11AX20SISO | Ant2    | 2412           | MCS0  | -22.57               | ≤6.50           | PASS    |
| 11AX20SISO | Ant1    | 2437           | MCS0  | -22.46               | ≤6.70           | PASS    |
| 11AX20SISO | Ant2    | 2437           | MCS0  | -23.62               | ≤6.50           | PASS    |
| 11AX20SISO | Ant1    | 2462           | MCS0  | -23.26               | ≤6.70           | PASS    |
| 11AX20SISO | Ant2    | 2462           | MCS0  | -23.06               | ≤6.50           | PASS    |
| 11N20MIMO  | Ant1    | 2412           | MCS0  | -22.24               | ≤6.70           | PASS    |
| 11N20MIMO  | Ant2    | 2412           | MCS0  | -24.64               | ≤6.50           | PASS    |
| 11N20MIMO  | total   | 2412           | MCS0  | -20.27               | ≤3.59           | PASS    |
| 11N20MIMO  | Ant1    | 2437           | MCS0  | -24.54               | ≤6.70           | PASS    |
| 11N20MIMO  | Ant2    | 2437           | MCS0  | -24.14               | ≤6.50           | PASS    |
| 11N20MIMO  | total   | 2437           | MCS0  | -21.33               | ≤3.59           | PASS    |
| 11N20MIMO  | Ant1    | 2462           | MCS0  | -24.59               | ≤6.70           | PASS    |
| 11N20MIMO  | Ant2    | 2462           | MCS0  | -23.66               | ≤6.50           | PASS    |
| 11N20MIMO  | total   | 2462           | MCS0  | -21.09               | ≤3.59           | PASS    |
| 11AX20MIMO | Ant1    | 2412           | MCS0  | -24.34               | ≤6.70           | PASS    |
| 11AX20MIMO | Ant2    | 2412           | MCS0  | -22.13               | ≤6.50           | PASS    |
| 11AX20MIMO | total   | 2412           | MCS0  | -20.09               | ≤3.59           | PASS    |
| 11AX20MIMO | Ant1    | 2437           | MCS0  | -23.76               | ≤6.70           | PASS    |

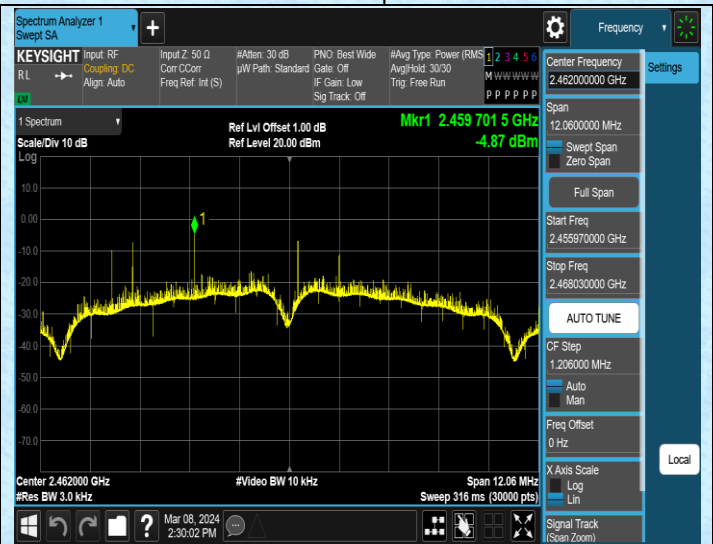
|            |       |      |      |        |       |      |
|------------|-------|------|------|--------|-------|------|
| 11AX20MIMO | Ant2  | 2437 | MCS0 | -23.3  | ≤6.50 | PASS |
| 11AX20MIMO | total | 2437 | MCS0 | -20.51 | ≤3.59 | PASS |
| 11AX20MIMO | Ant1  | 2462 | MCS0 | -24.77 | ≤6.70 | PASS |
| 11AX20MIMO | Ant2  | 2462 | MCS0 | -24.24 | ≤6.50 | PASS |
| 11AX20MIMO | total | 2462 | MCS0 | -21.49 | ≤3.59 | PASS |

## Test Graphs

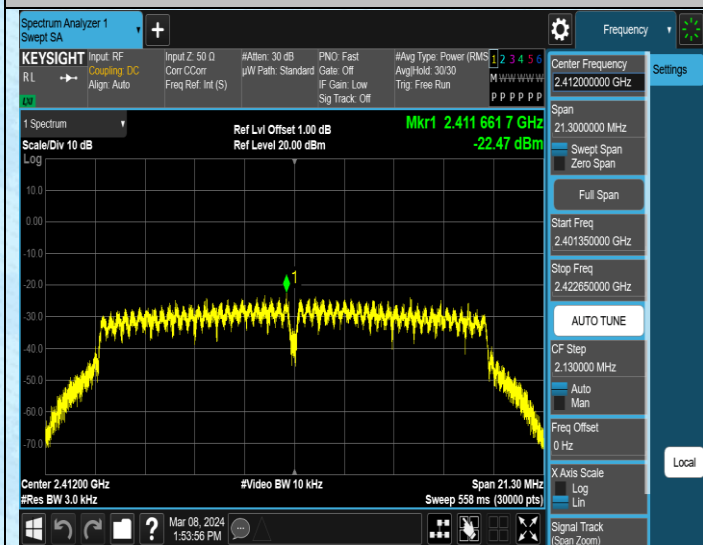




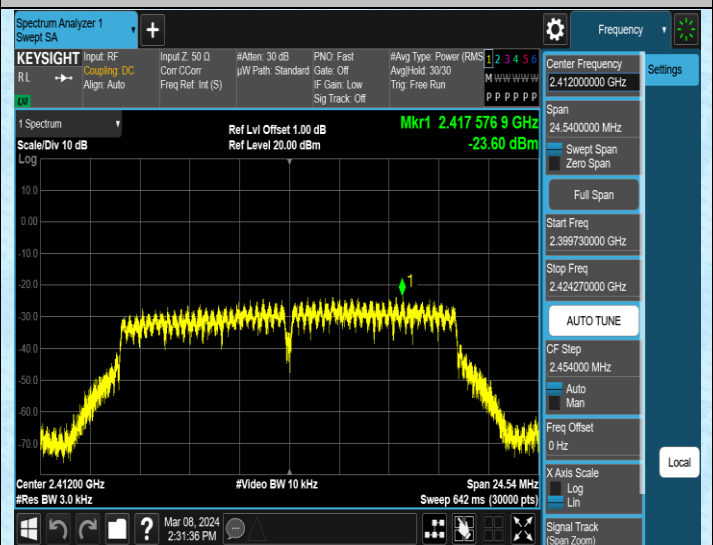
11B-Ant1-2462-PASS



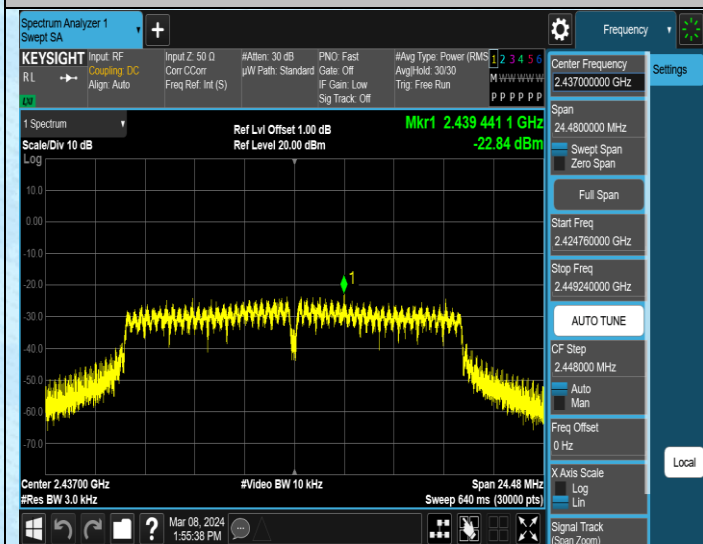
11B-Ant2-2462-PASS



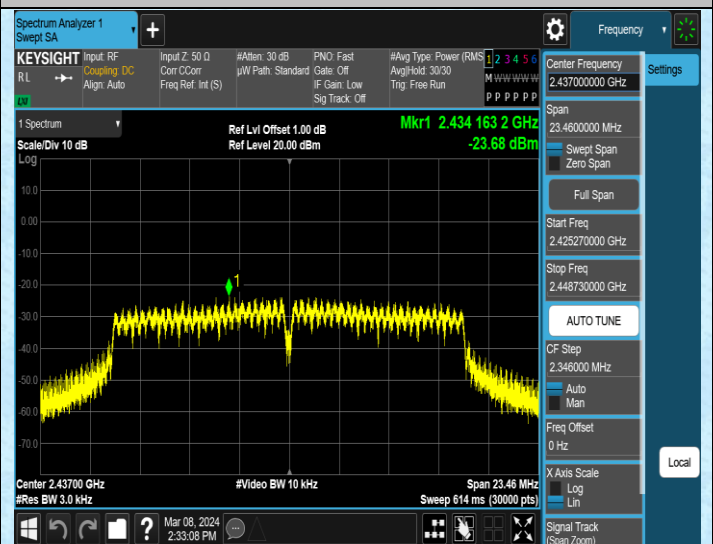
11G-Ant1-2412-PASS



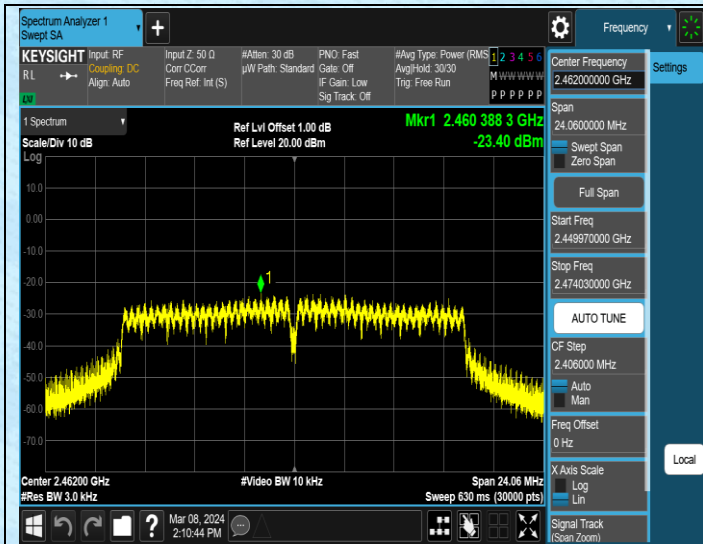
11G-Ant2-2412-PASS



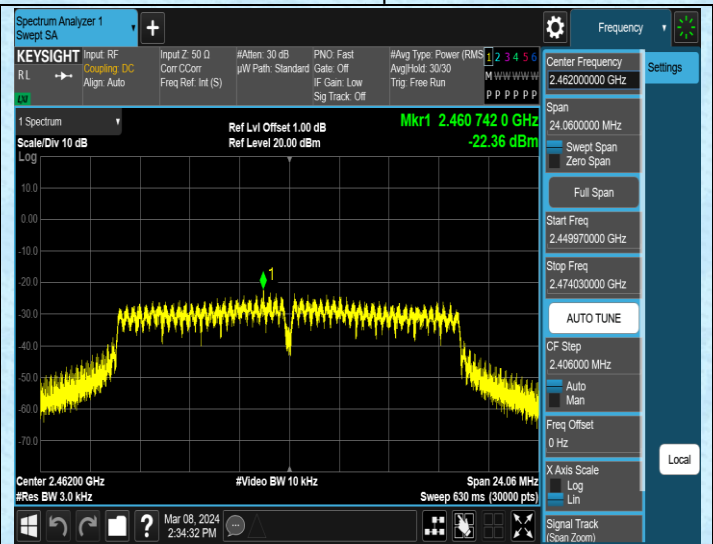
11G-Ant1-2437-PASS



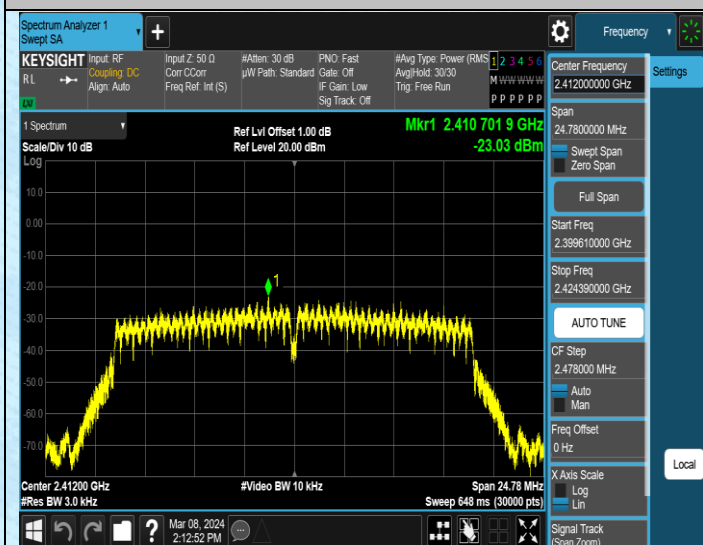
11G-Ant2-2437-PASS



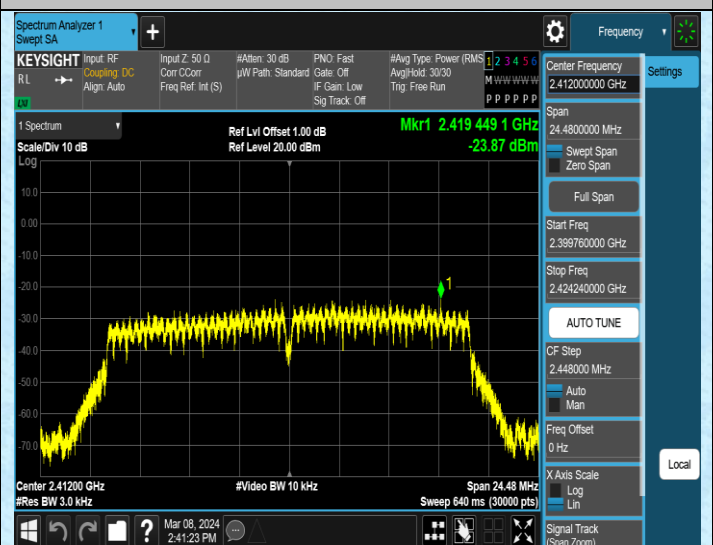
11G-Ant1-2462-PASS



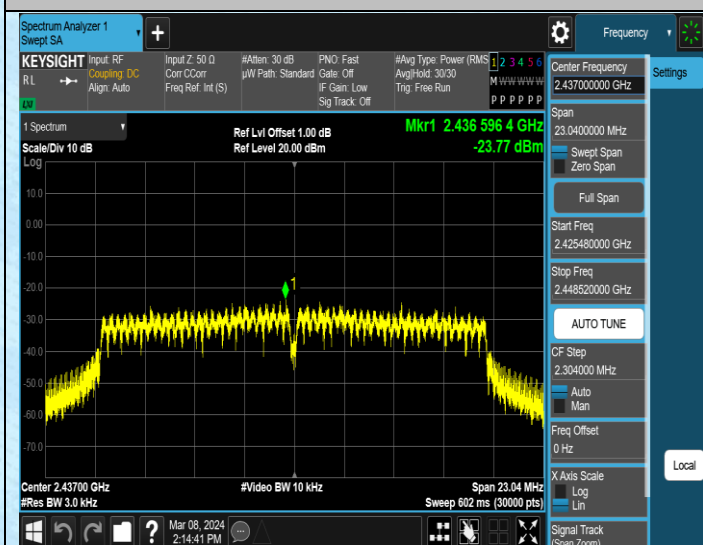
11G-Ant2-2462-PASS



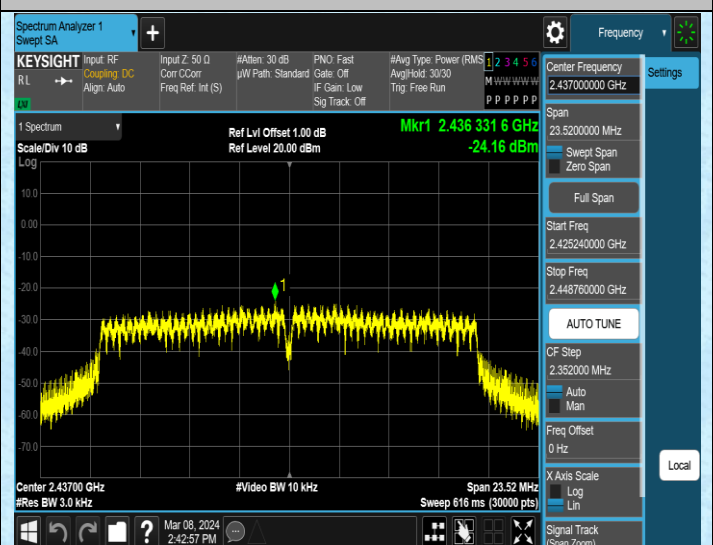
11N20SISO-Ant1-2412-PASS



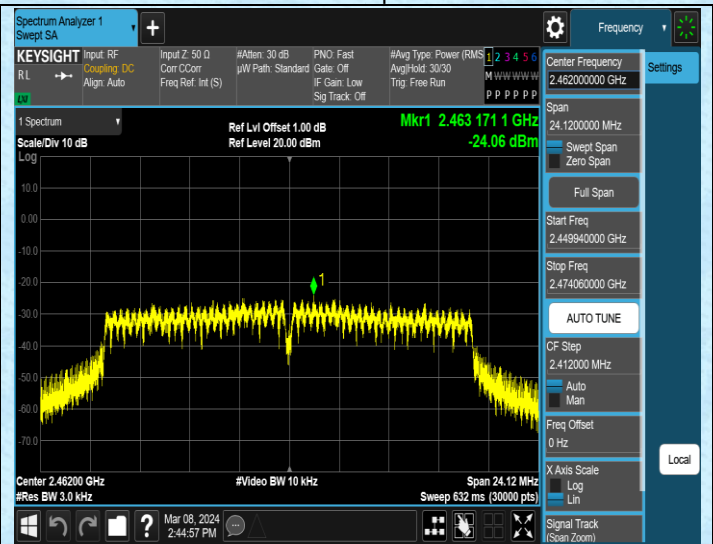
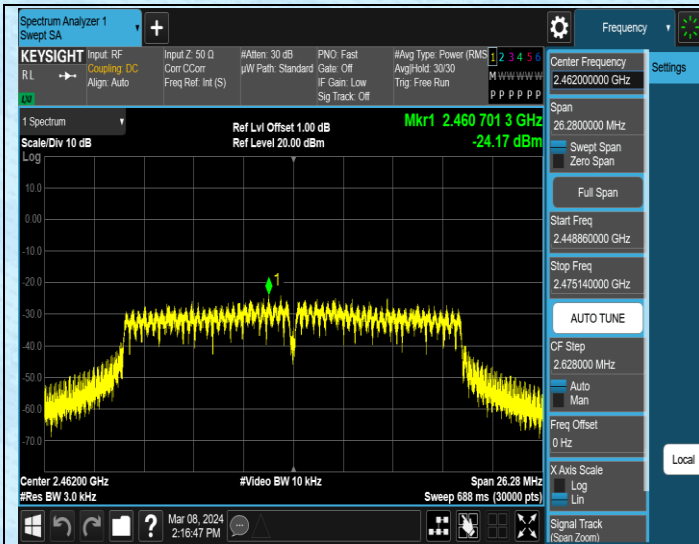
11N20SISO-Ant2-2412-PASS



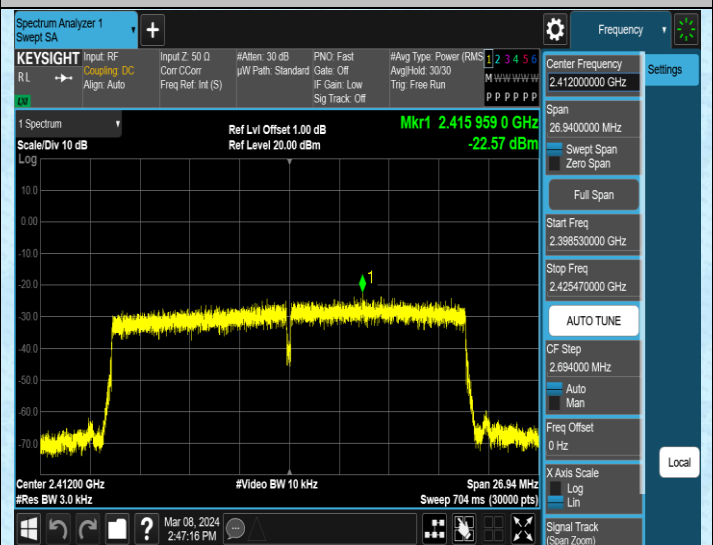
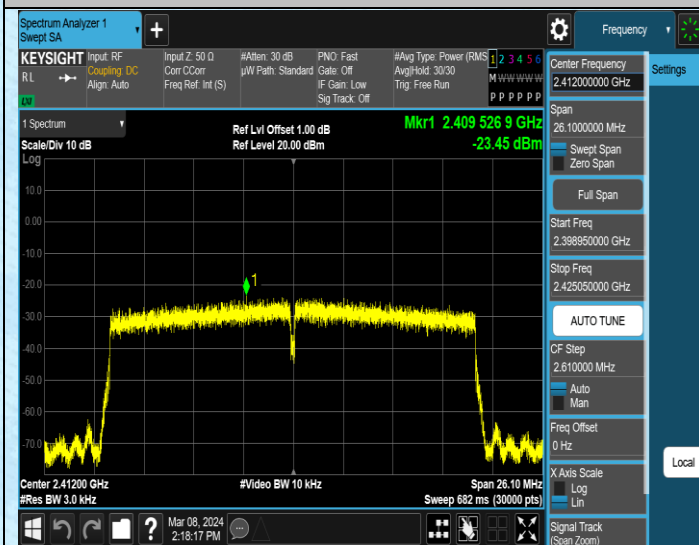
11N20SISO-Ant1-2437-PASS



11N20SISO-Ant2-2437-PASS

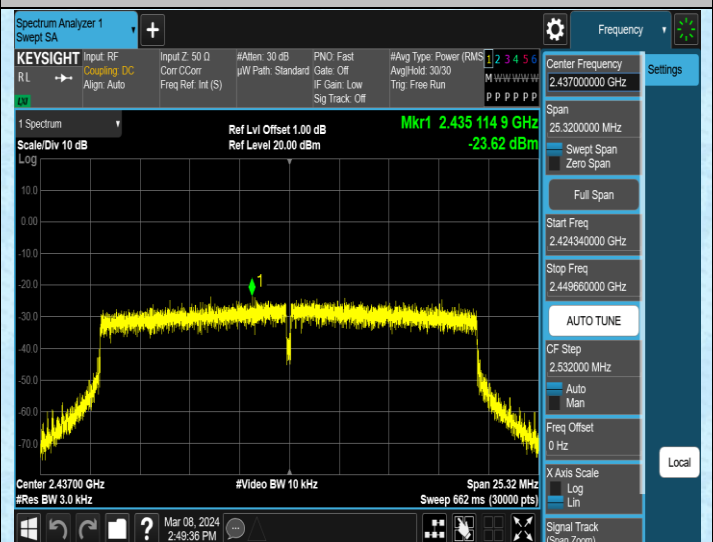
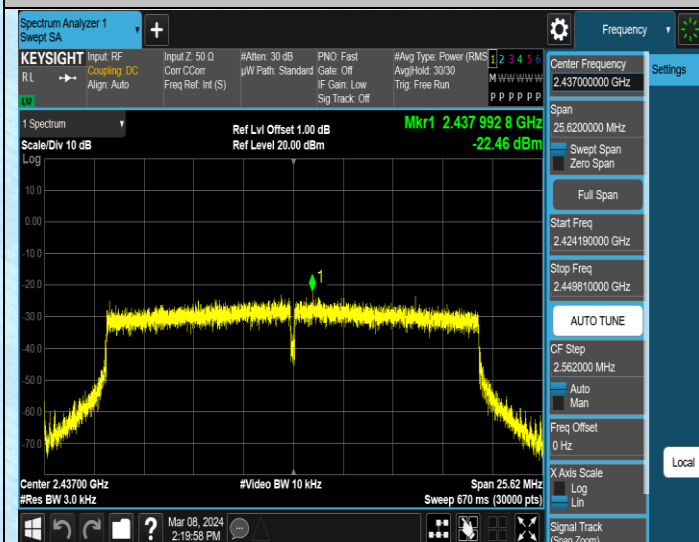


11N20SISO-Ant1-2462-PASS



11N20SISO-Ant2-2462-PASS

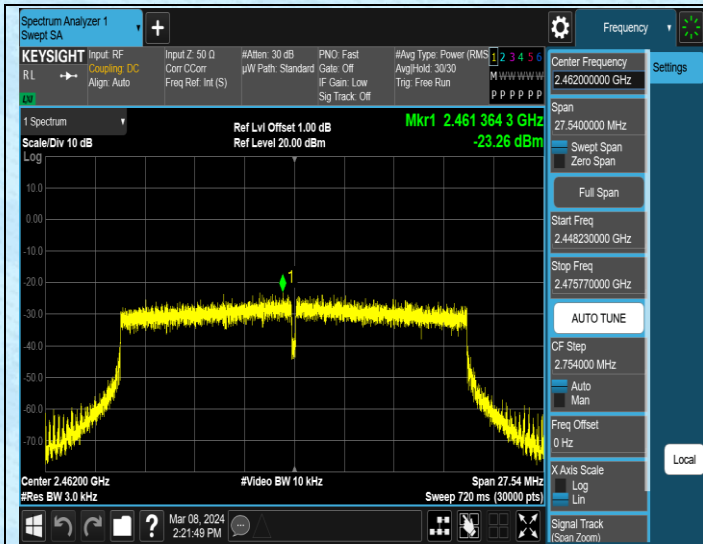
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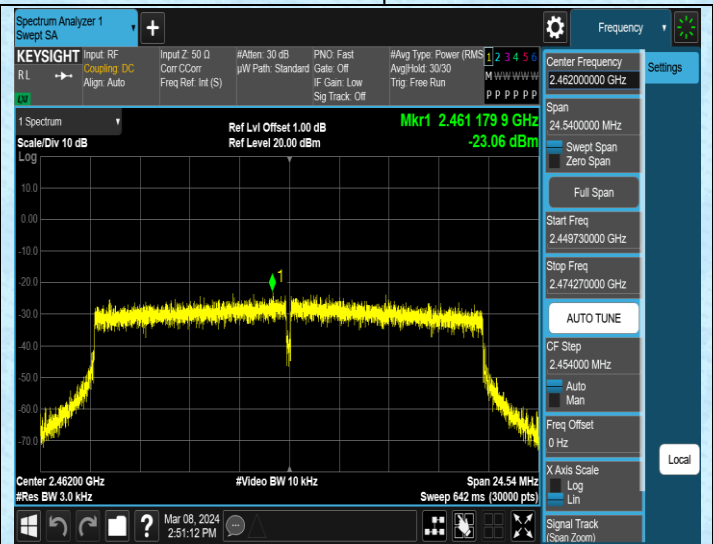
11AX20SISO-Ant2-2412-PASS

11AX20SISO-Ant1-2437-PASS

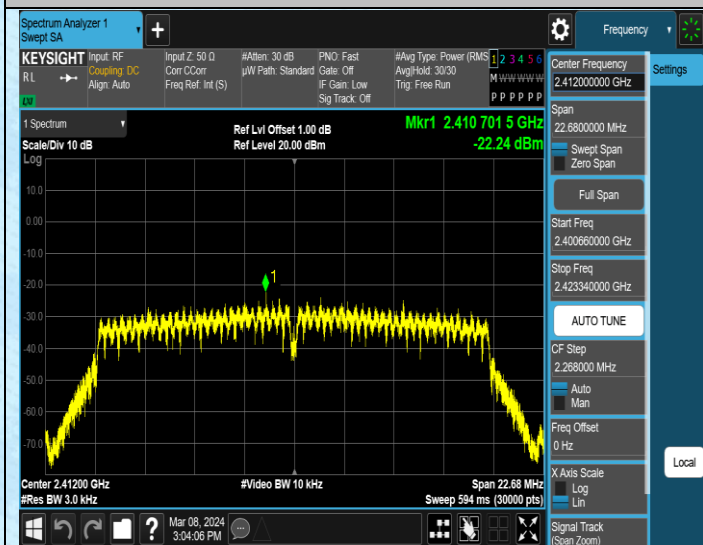
11AX20SISO-Ant2-2437-PASS



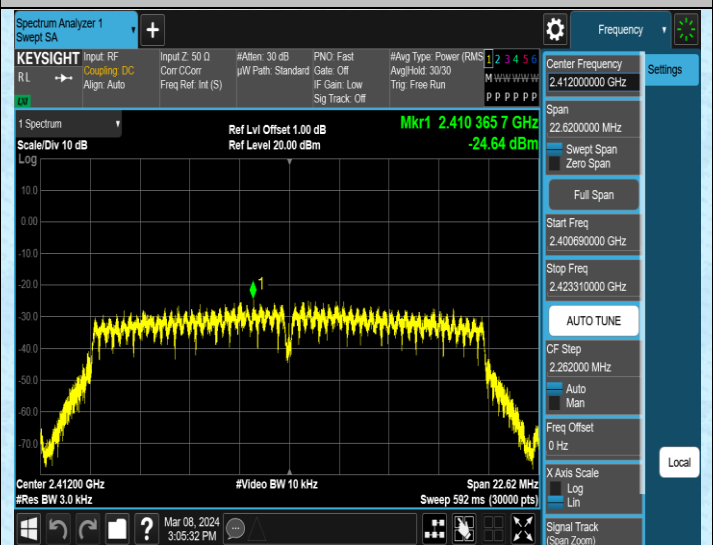
11AX20SISO-Ant1-2462-PASS



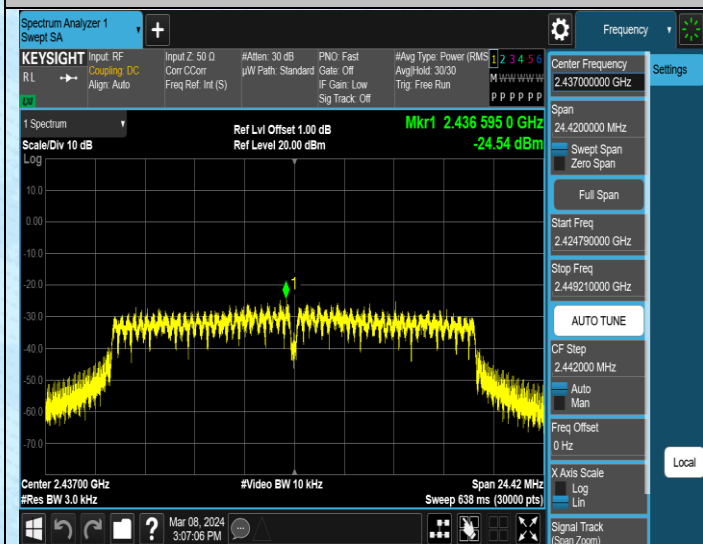
11AX20SISO-Ant2-2462-PASS



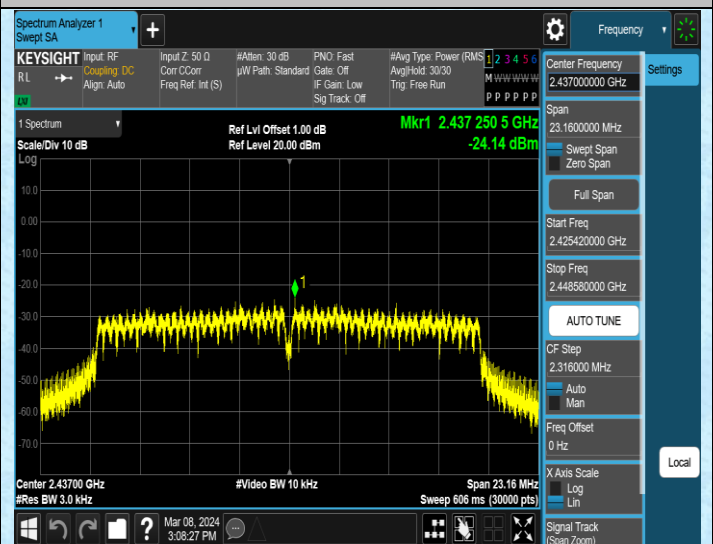
11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2437-PASS



11N20MIMO-Ant2-2437-PASS