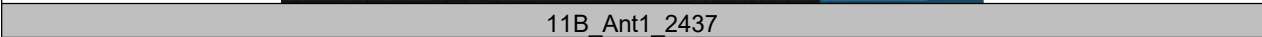
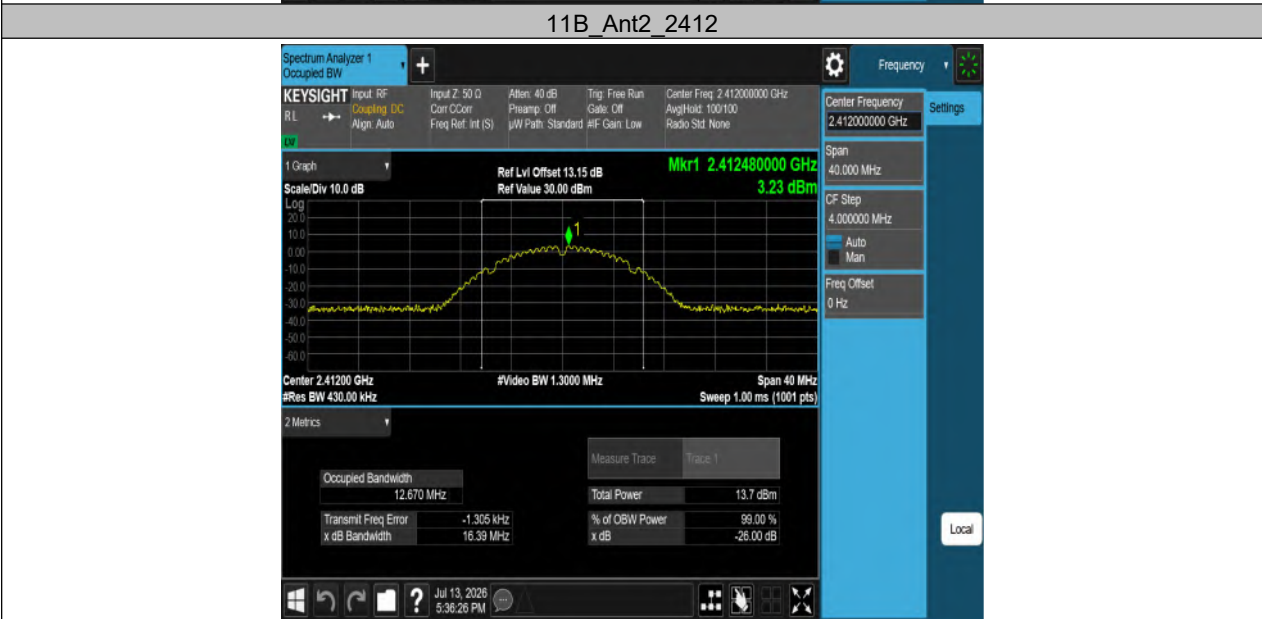
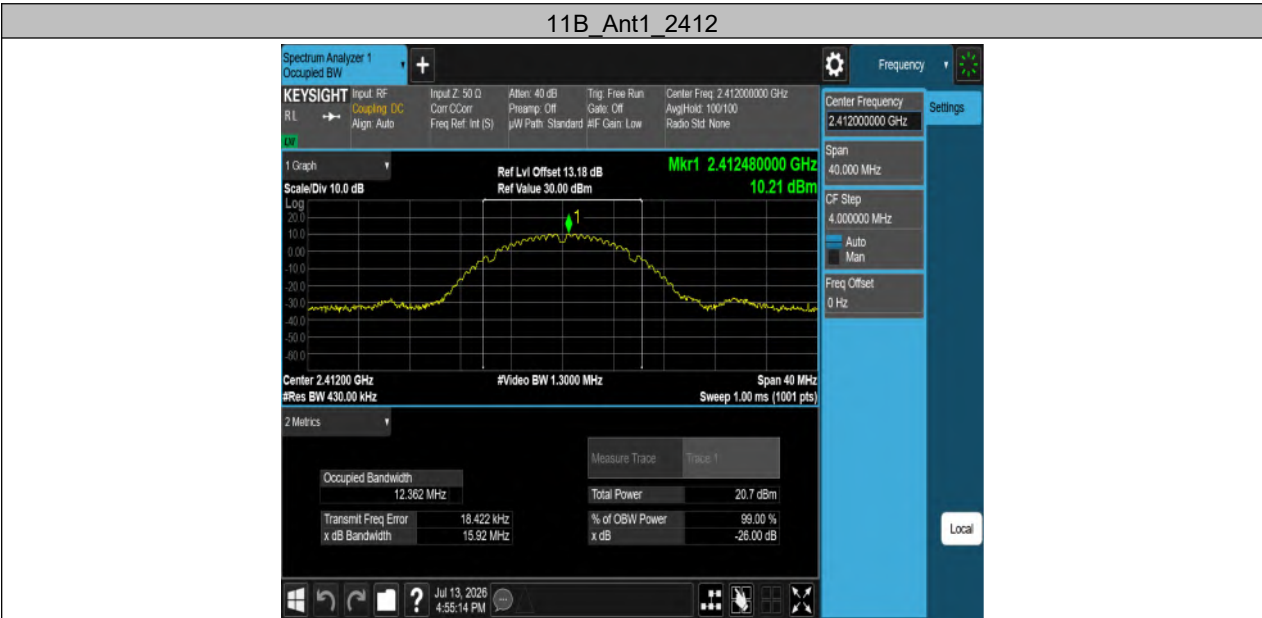
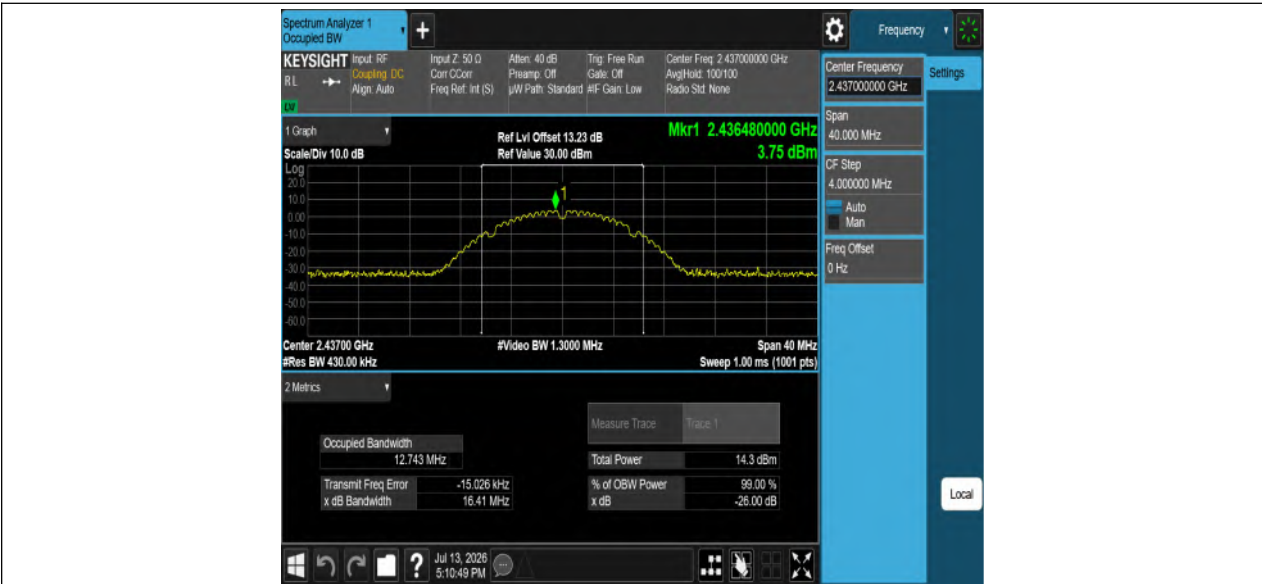


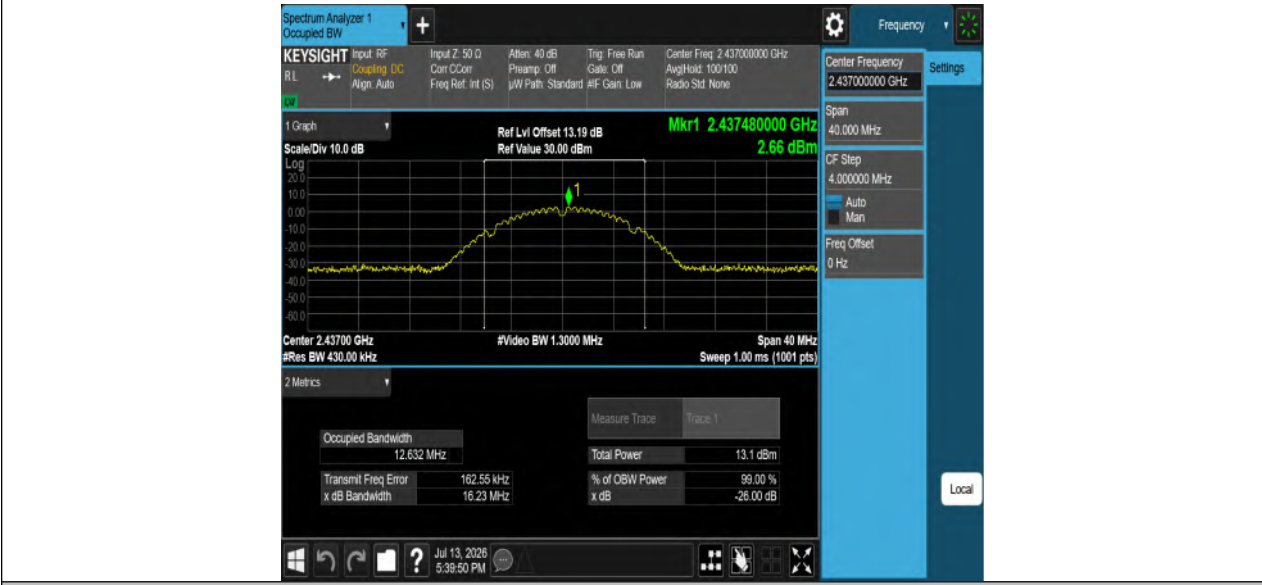


99 % bandwidth:





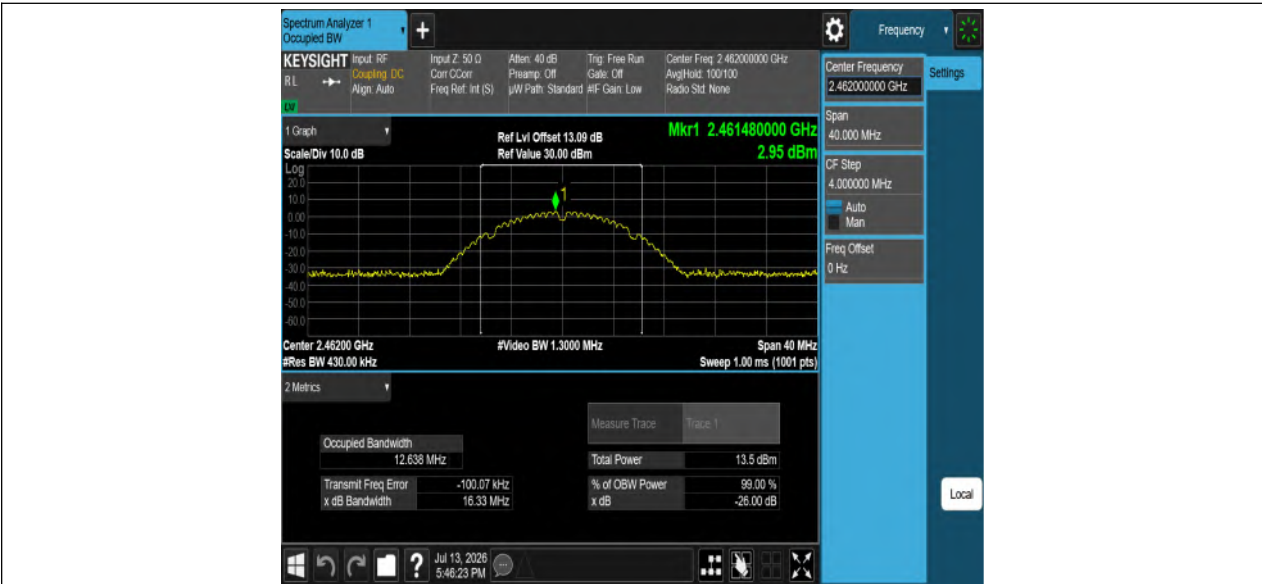
11B\_Ant2\_2437



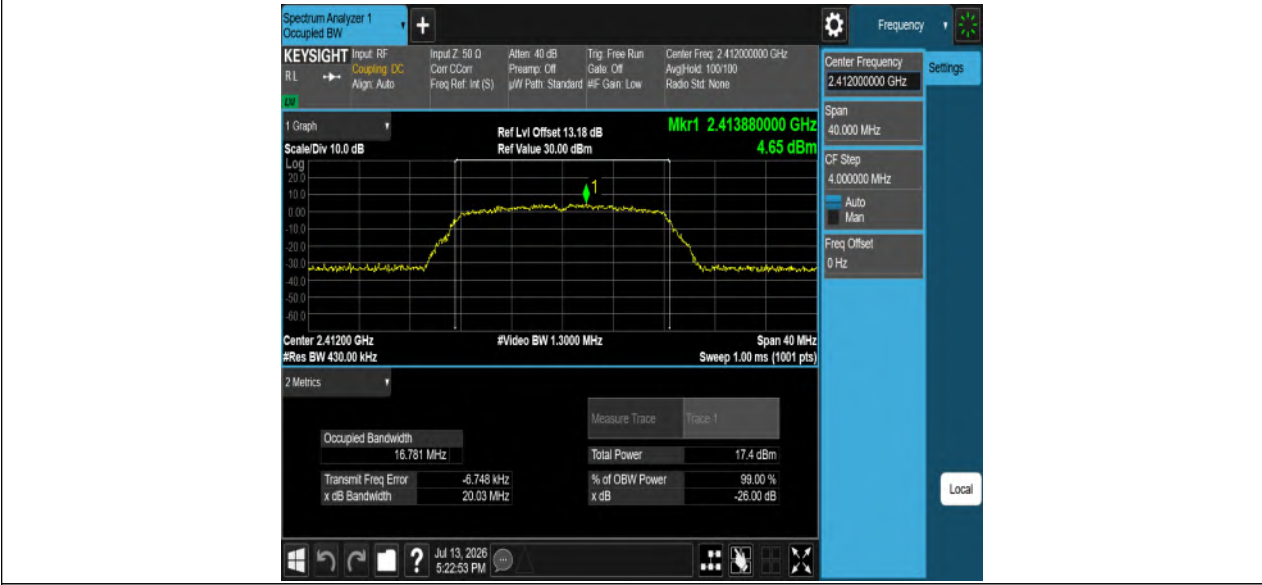
11B\_Ant1\_2462



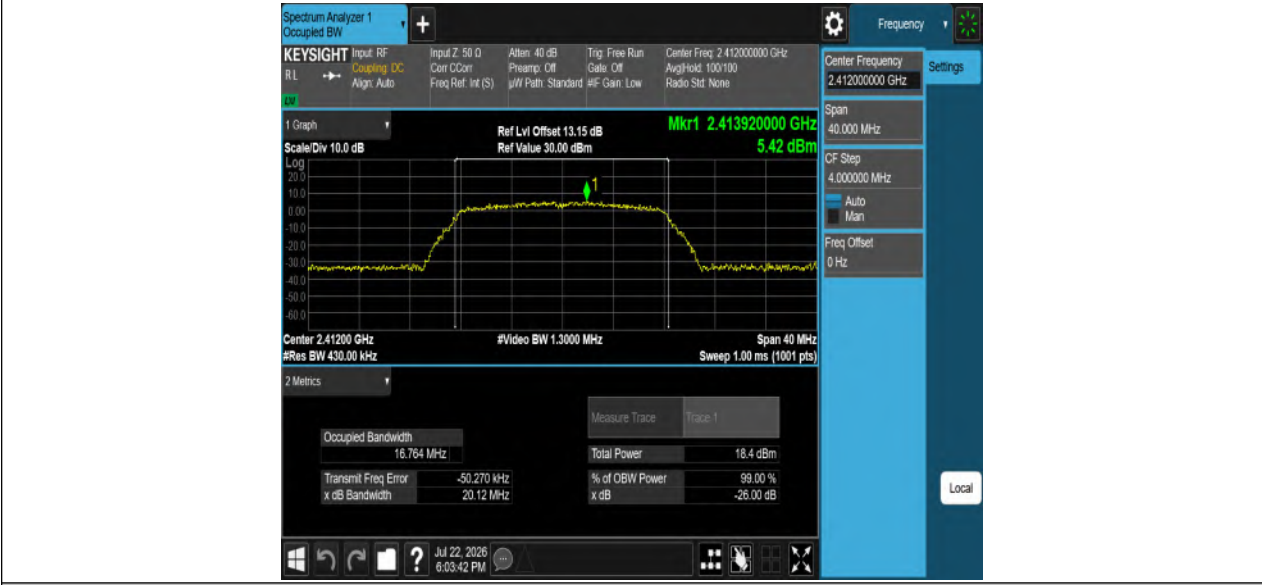
11B\_Ant2\_2462



11G\_Ant1\_2412



11G\_Ant2\_2412



11G\_Ant1\_2437



11G\_Ant2\_2437



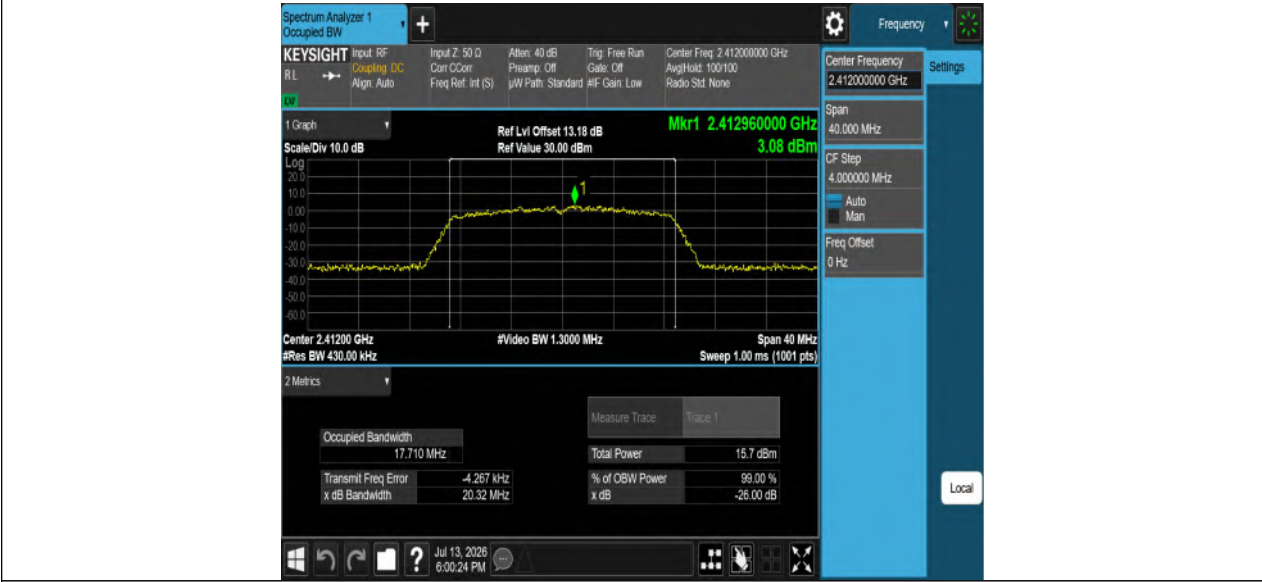
11G\_Ant1\_2462



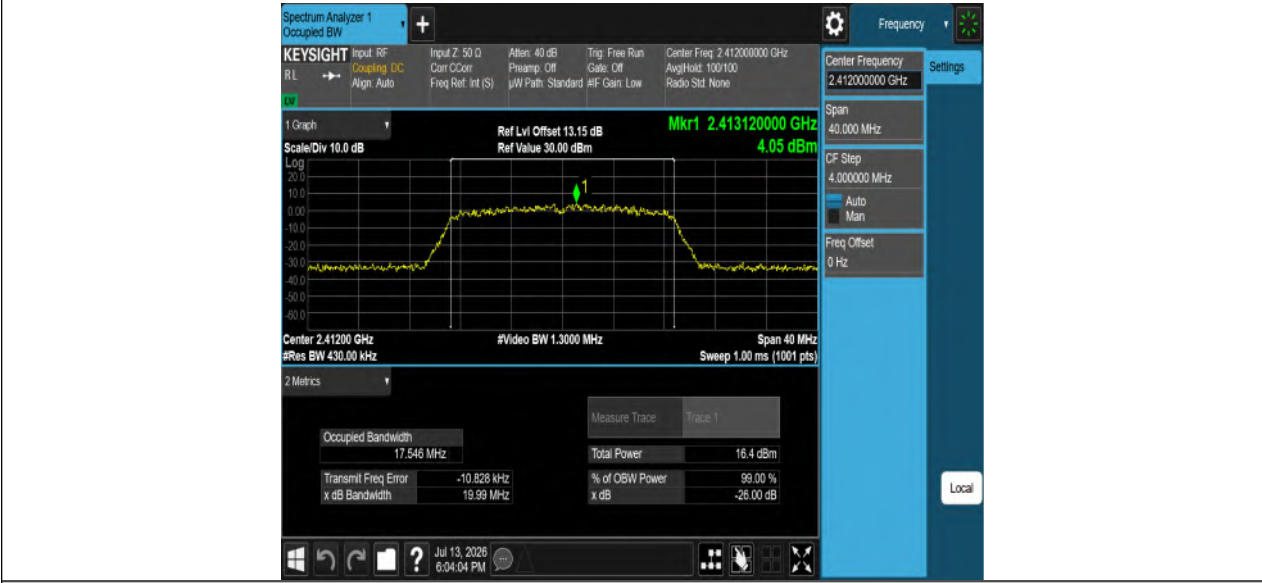
11G\_Ant2\_2462



11N20MIMO\_Ant1\_2412



11N20MIMO\_Ant2\_2412



11N20MIMO\_Ant1\_2437



11N20MIMO\_Ant2\_2437



11N20MIMO\_Ant1\_2462



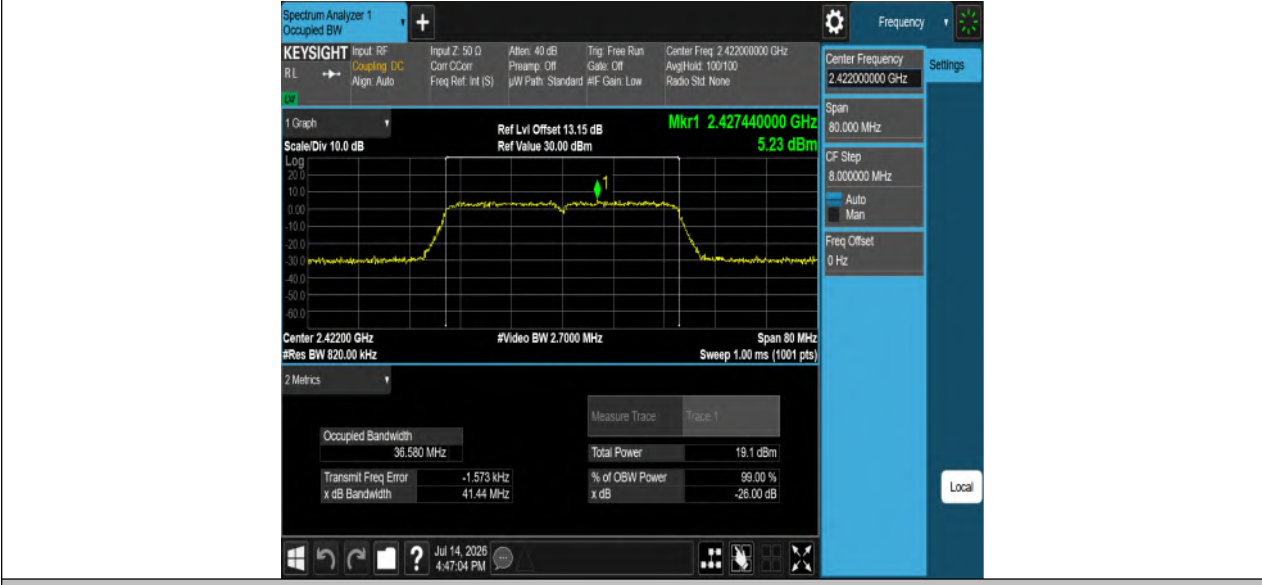
11N20MIMO\_Ant2\_2462



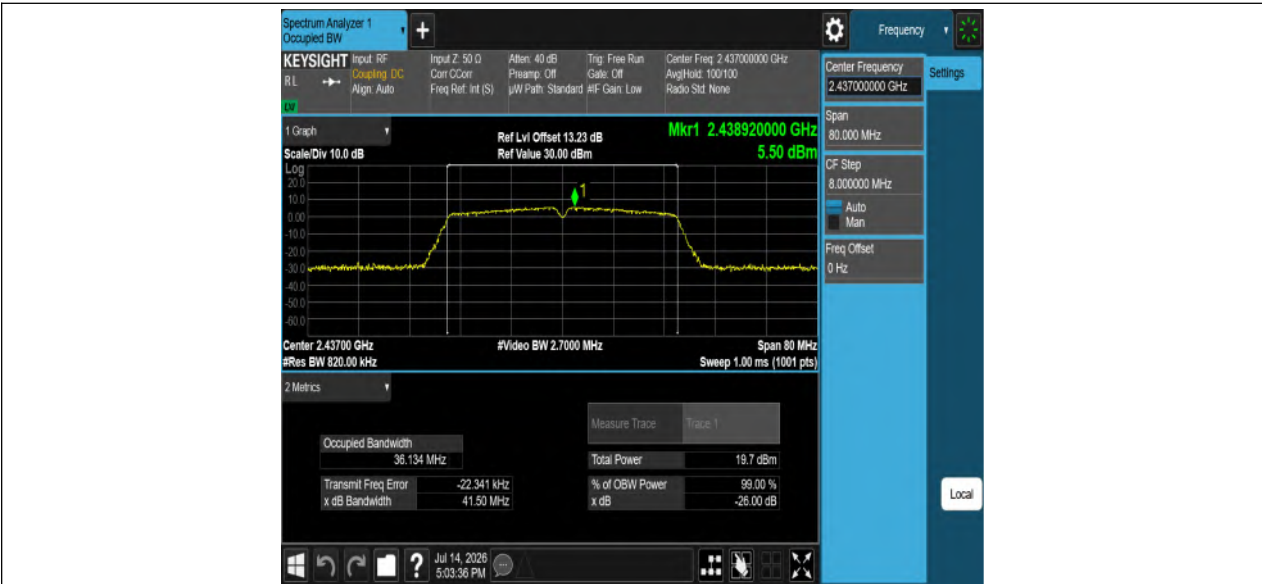
11N40MIMO\_Ant1\_2422



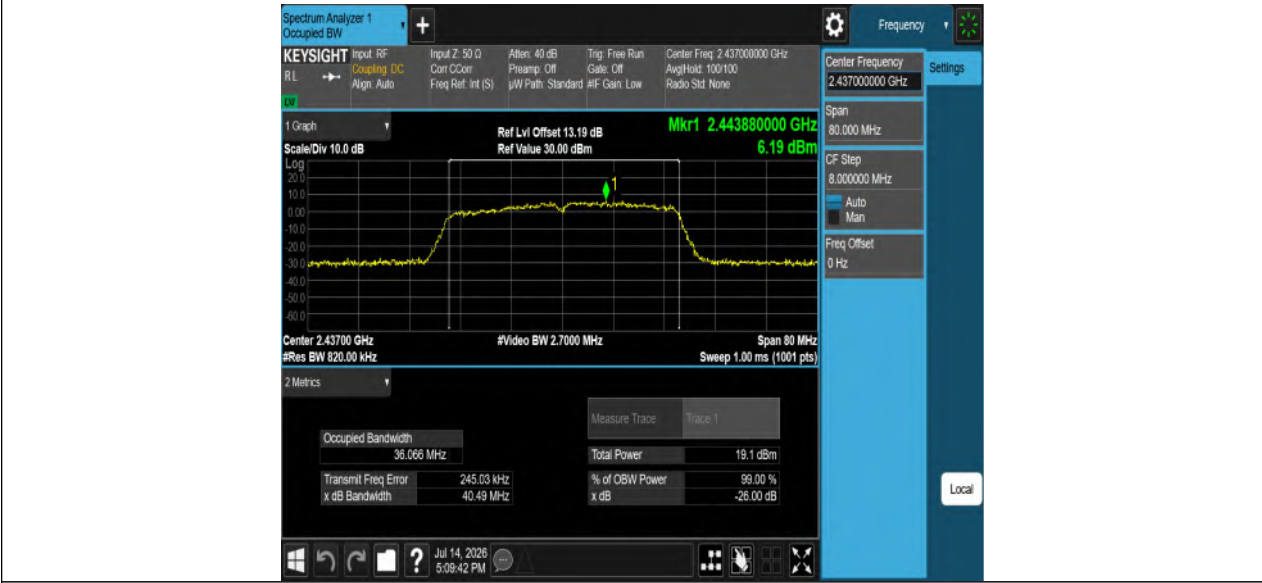
11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437



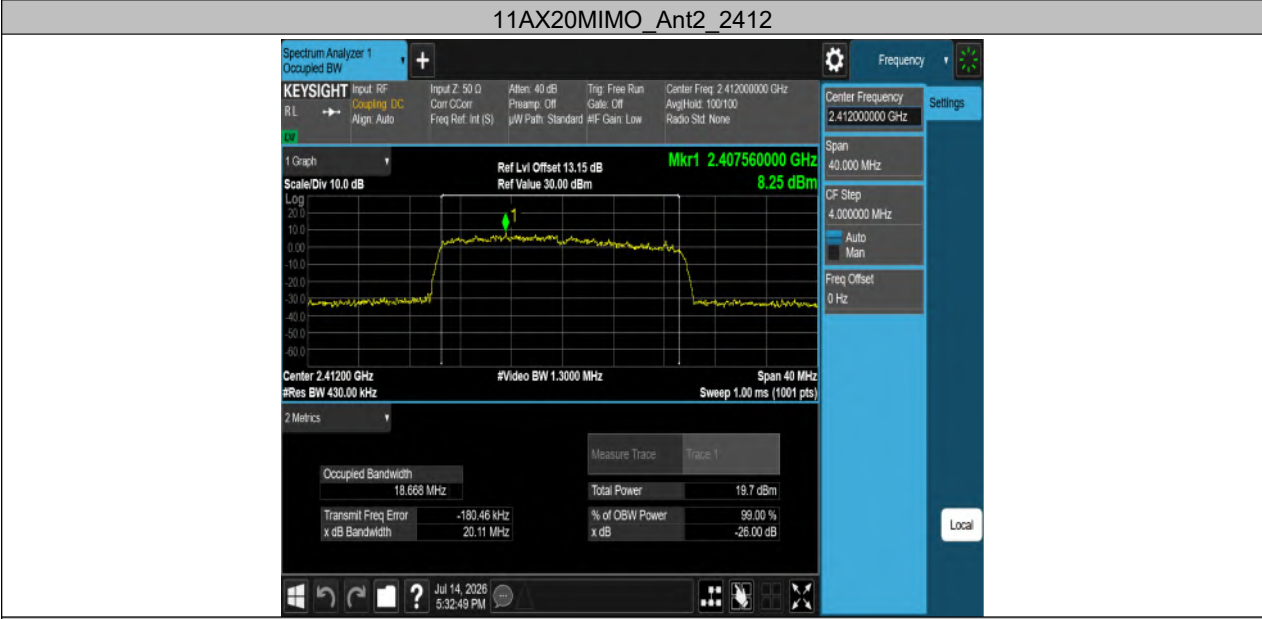
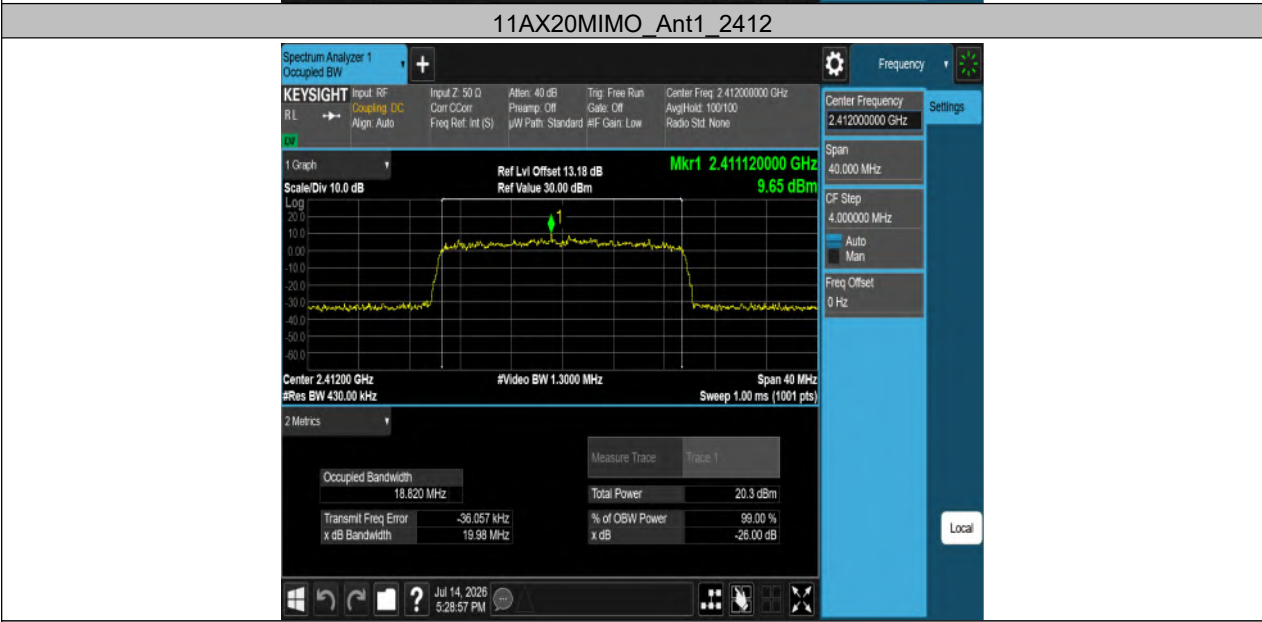
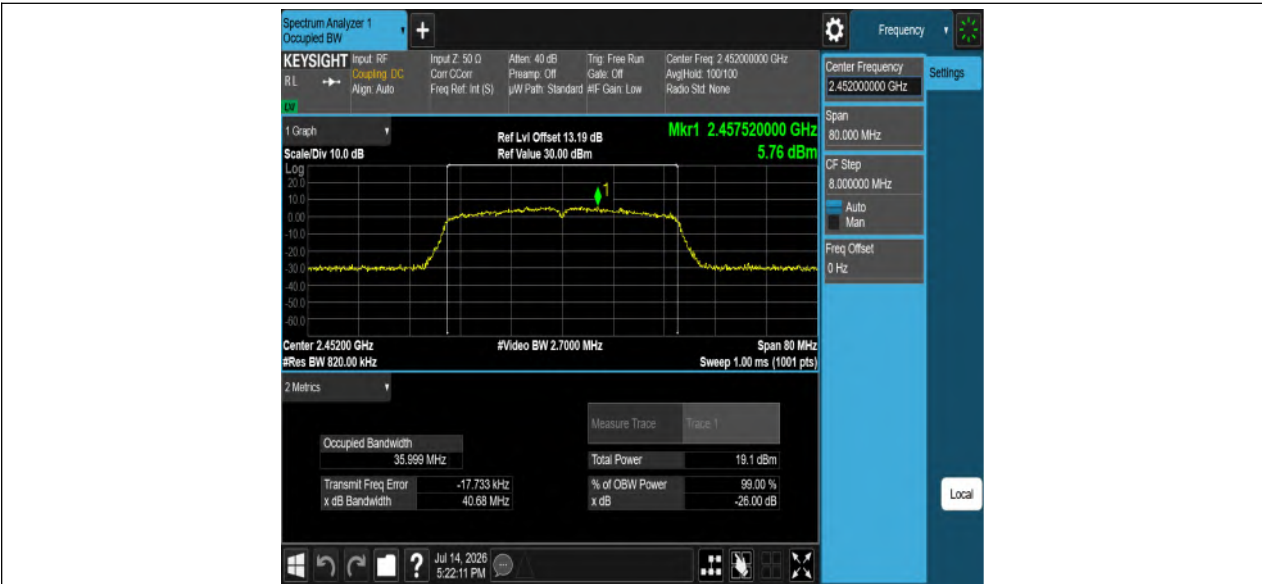
11N40MIMO\_Ant2\_2437

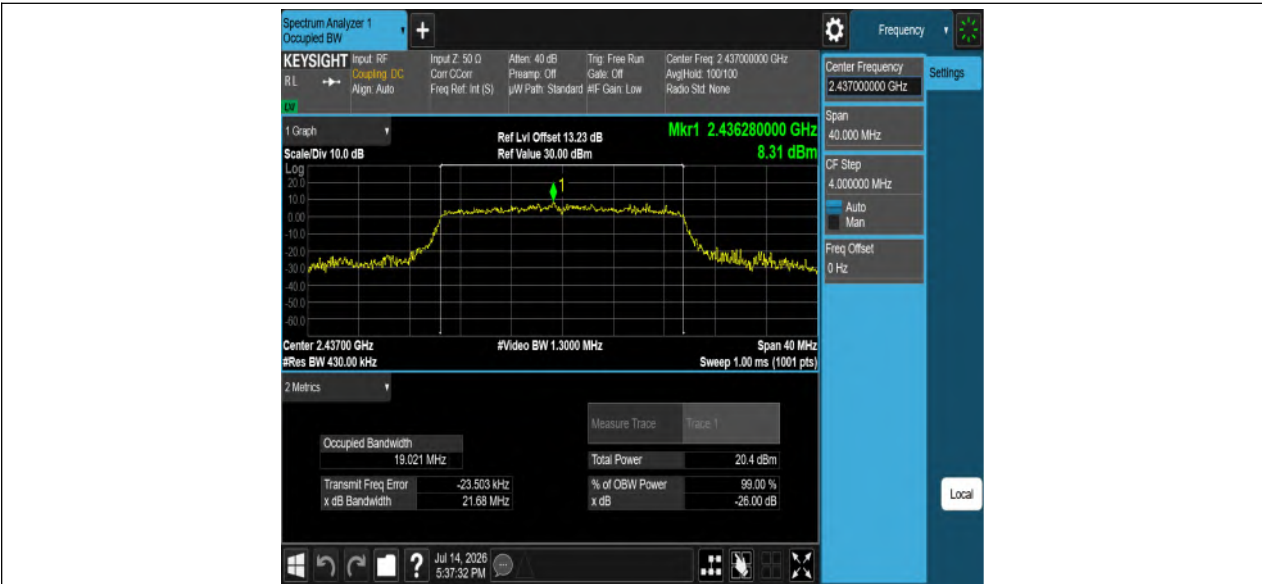


11N40MIMO\_Ant1\_2452

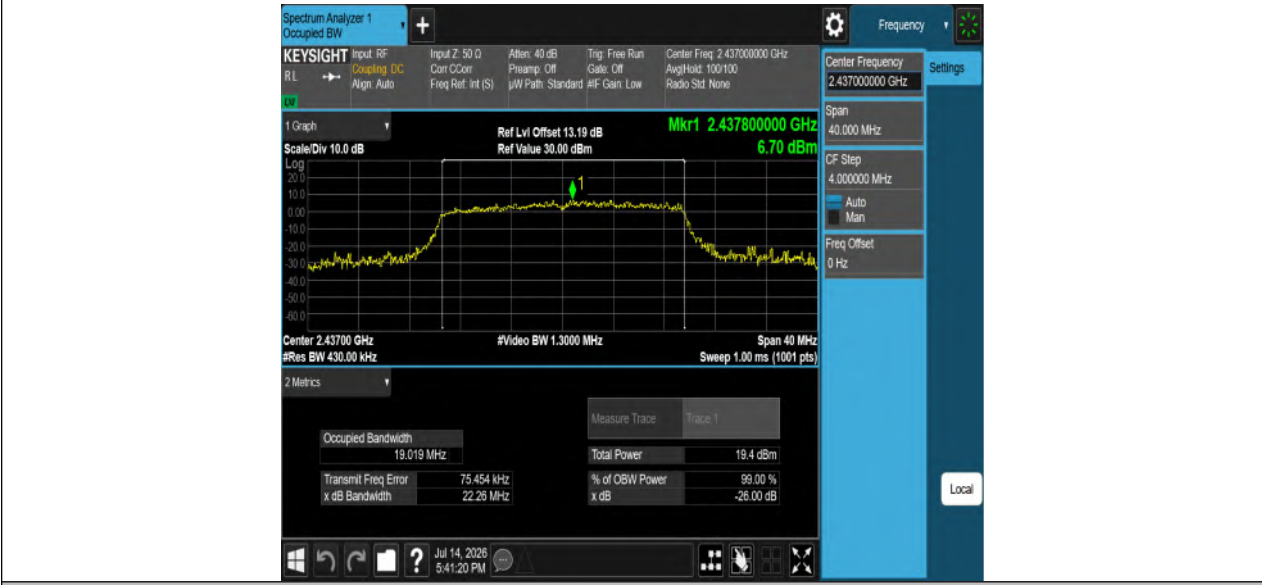


11N40MIMO\_Ant2\_2452





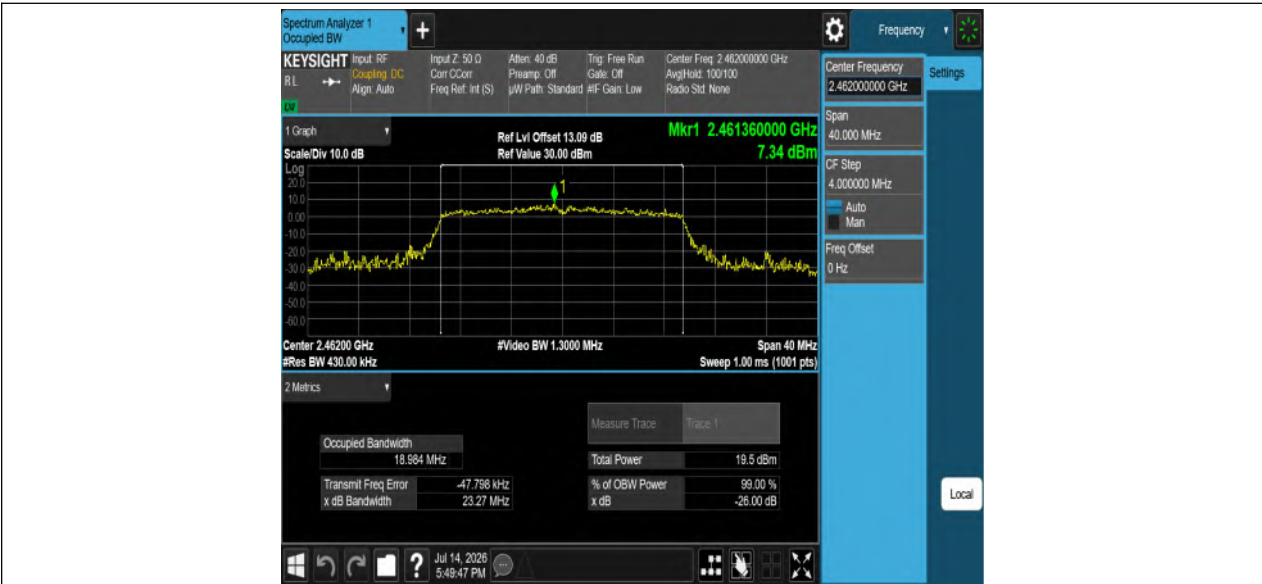
11AX20MIMO\_Ant2\_2437



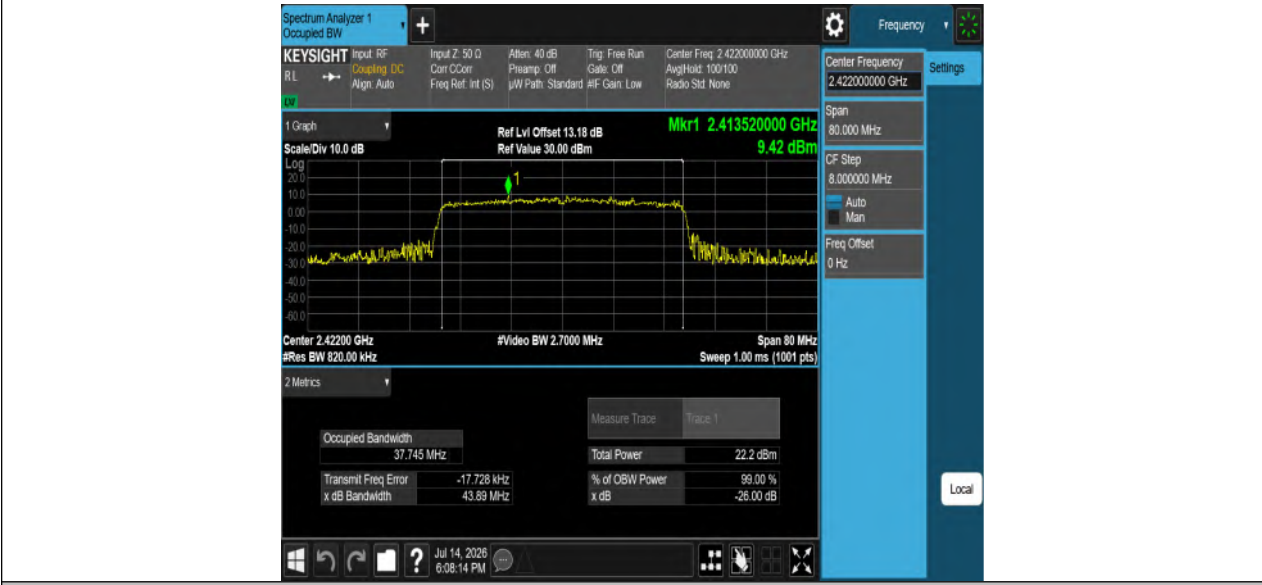
11AX20MIMO\_Ant1\_2462



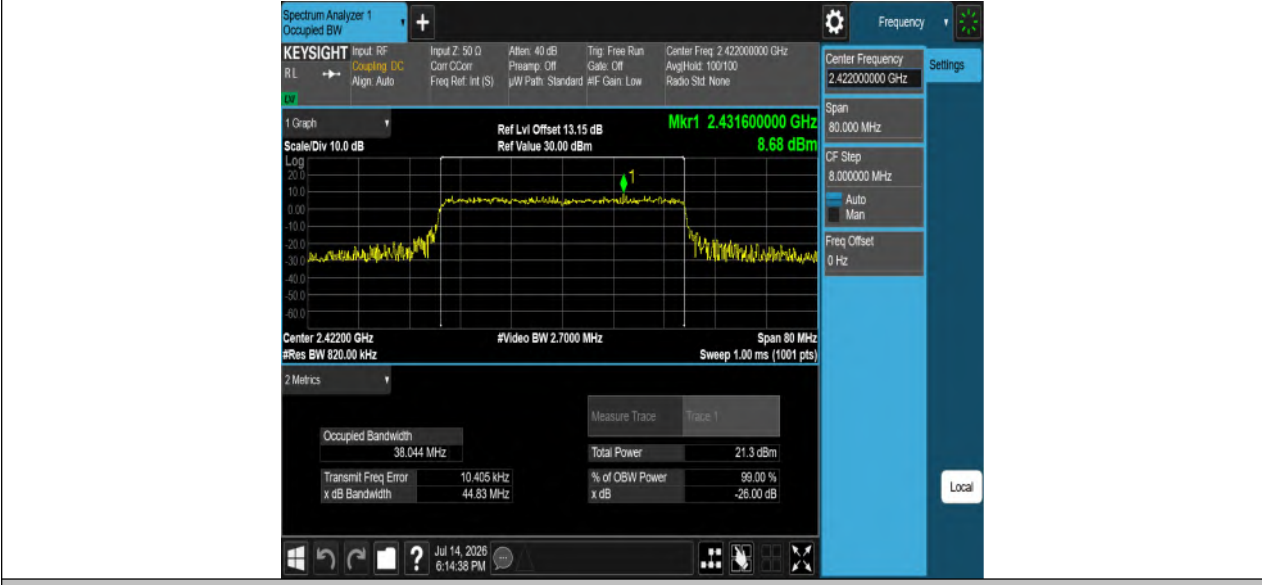
11AX20MIMO\_Ant2\_2462



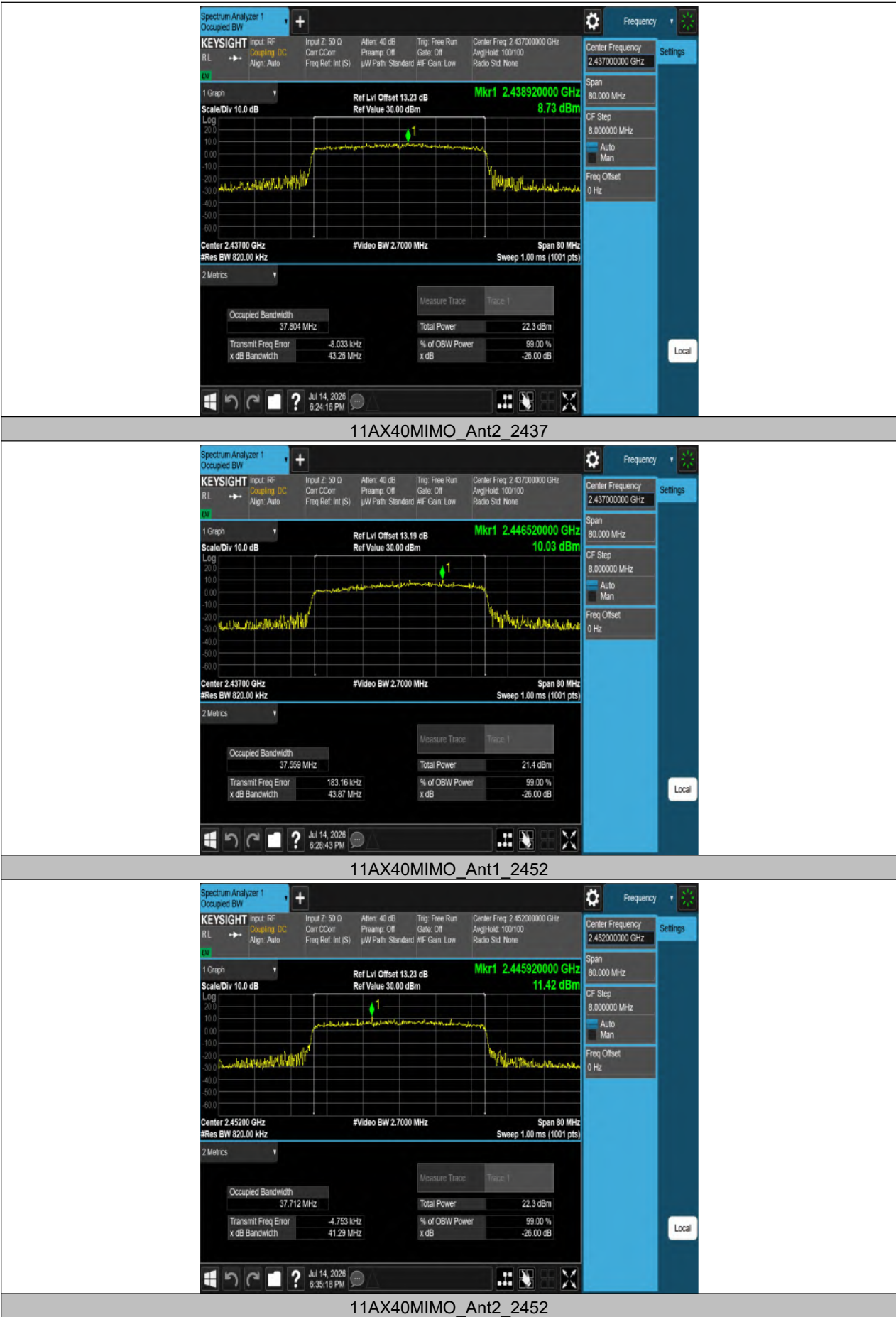
11AX40MIMO\_Ant1\_2422

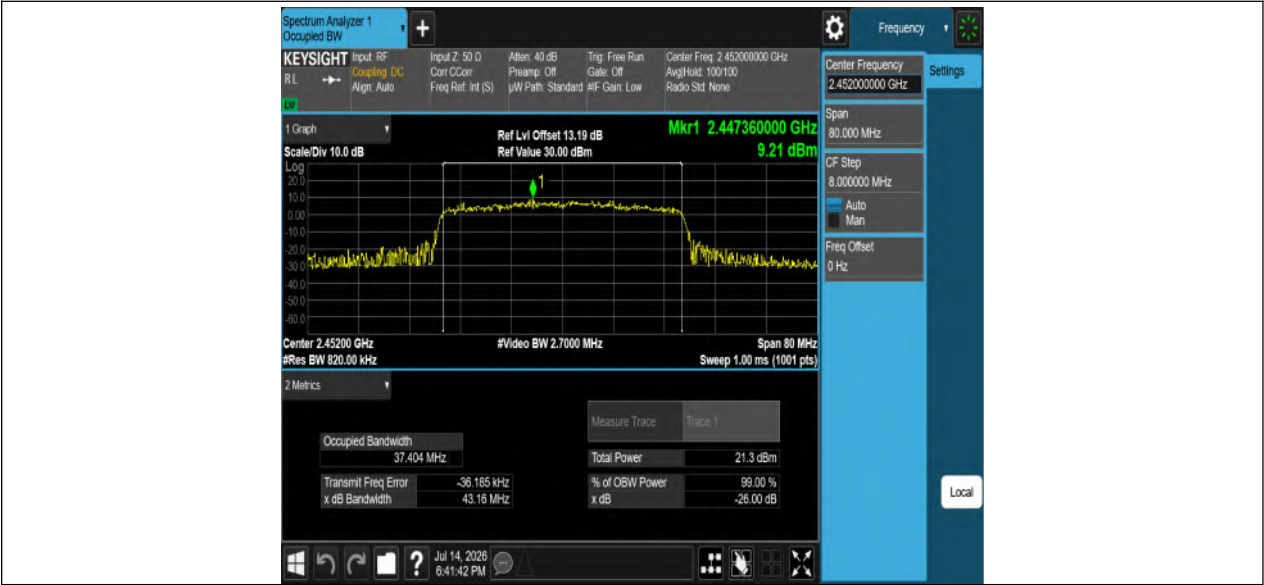


11AX40MIMO\_Ant2\_2422



11AX40MIMO\_Ant1\_2437





## 10. Conducted Output Power

### 10.1. Block diagram of test setup

Same as section 8.1

### 10.2. Limits

| CFR 47 FCC Part15 (15.247) Subpart C                                                                                                                                      |                      |                  |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-----------------------|
| Section                                                                                                                                                                   | Test Item            | Limit            | Frequency Range (MHz) |
| CFR 47 FCC 15.247(b)(3)                                                                                                                                                   | Average Output Power | 1 watt or 30 dBm | 2400-2483.5           |
| Note: For 802.11n/11ax , the EUT incorporates a MIMO function. The Antenna directional gain is 7.09 dBi.<br>The Conducted Output Power limit is the above limits-(7.09-6) |                      |                  |                       |

### 10.3. Test Procedure

- (1) The test according to ANSI C63.10 clause 11.9.2.3.
- (2) Connect EUT's antenna output to RF power meter by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
- (4) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- (5) Adjust the measurement in dBm by adding  $[10 \log (1/D)]$ , where D is the duty cycle.
- (6) Record the RF average power of each antenna port.

### 10.4. Results

| Test Mode | Ant.  | Freq. (MHz) | Average Power (dBm) | Conducted Limit (dBm) | Verdict |
|-----------|-------|-------------|---------------------|-----------------------|---------|
| 11B       | Ant1  | 2412        | 12.36               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2412        | 16.96               | $\leq 30.00$          | PASS    |
|           | Ant1  | 2437        | 17.38               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2437        | 16.33               | $\leq 30.00$          | PASS    |
|           | Ant1  | 2462        | 13.62               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2462        | 16.50               | $\leq 30.00$          | PASS    |
| 11G       | Ant1  | 2412        | 15.90               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2412        | 12.34               | $\leq 30.00$          | PASS    |
|           | Ant1  | 2437        | 15.25               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2437        | 11.18               | $\leq 30.00$          | PASS    |
|           | Ant1  | 2462        | 15.56               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2462        | 11.57               | $\leq 30.00$          | PASS    |
| 11N20MIMO | Ant1  | 2412        | 14.73               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2412        | 14.31               | $\leq 30.00$          | PASS    |
|           | total | 2412        | 17.54               | $\leq 28.91$          | PASS    |
|           | Ant1  | 2437        | 13.36               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2437        | 12.84               | $\leq 30.00$          | PASS    |
|           | total | 2437        | 16.12               | $\leq 28.91$          | PASS    |
|           | Ant1  | 2462        | 12.67               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2462        | 12.06               | $\leq 30.00$          | PASS    |
| 11N40MIMO | total | 2462        | 15.39               | $\leq 28.91$          | PASS    |
|           | Ant1  | 2422        | 12.78               | $\leq 30.00$          | PASS    |
|           | Ant2  | 2422        | 11.69               | $\leq 30.00$          | PASS    |
|           | total | 2422        | 15.28               | $\leq 28.91$          | PASS    |
|           | Ant1  | 2437        | 12.79               | $\leq 30.00$          | PASS    |
| 11N40MIMO | Ant2  | 2437        | 11.78               | $\leq 30.00$          | PASS    |

|            |       |      |       |              |      |
|------------|-------|------|-------|--------------|------|
|            | total | 2437 | 15.32 | $\leq 28.91$ | PASS |
|            | Ant1  | 2452 | 12.80 | $\leq 30.00$ | PASS |
|            | Ant2  | 2452 | 11.60 | $\leq 30.00$ | PASS |
|            | total | 2452 | 15.25 | $\leq 28.91$ | PASS |
| 11AX20MIMO | Ant1  | 2412 | 12.97 | $\leq 30.00$ | PASS |
|            | Ant2  | 2412 | 12.35 | $\leq 30.00$ | PASS |
|            | total | 2412 | 15.68 | $\leq 28.91$ | PASS |
|            | Ant1  | 2437 | 13.07 | $\leq 30.00$ | PASS |
|            | Ant2  | 2437 | 12.10 | $\leq 30.00$ | PASS |
|            | total | 2437 | 15.62 | $\leq 28.91$ | PASS |
|            | Ant1  | 2462 | 12.93 | $\leq 30.00$ | PASS |
|            | Ant2  | 2462 | 12.27 | $\leq 30.00$ | PASS |
|            | total | 2462 | 15.62 | $\leq 28.91$ | PASS |
|            | Ant1  | 2422 | 13.07 | $\leq 30.00$ | PASS |
| 11AX40MIMO | Ant2  | 2422 | 11.80 | $\leq 30.00$ | PASS |
|            | total | 2422 | 15.49 | $\leq 28.91$ | PASS |
|            | Ant1  | 2437 | 15.27 | $\leq 30.00$ | PASS |
|            | Ant2  | 2437 | 14.08 | $\leq 30.00$ | PASS |
|            | total | 2437 | 17.73 | $\leq 28.91$ | PASS |
|            | Ant1  | 2452 | 12.94 | $\leq 30.00$ | PASS |
|            | Ant2  | 2452 | 12.24 | $\leq 30.00$ | PASS |
|            | total | 2452 | 15.61 | $\leq 28.91$ | PASS |

## 11. Power Spectral Density

### 11.1. Block diagram of test setup

Same as section 8.1

### 11.2. Limits

| CFR 47 FCC Part15 (15.247) Subpart C |                        |             |                       |
|--------------------------------------|------------------------|-------------|-----------------------|
| Section                              | Test Item              | Limit       | Frequency Range (MHz) |
| CFR 47 FCC §15.247 (e)               | Power Spectral Density | 8 dBm/3 kHz | 2400-2483.5           |

### 11.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

|                  |                                                      |
|------------------|------------------------------------------------------|
| Center Frequency | The centre frequency of the channel under test       |
| Detector         | RMS                                                  |
| RBW              | $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ |
| VBW              | $\geq 3 \times \text{RBW}$                           |
| Span             | 1.5 x DTS bandwidth                                  |
| Trace            | Max hold                                             |
| Sweep time       | Auto couple.                                         |

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

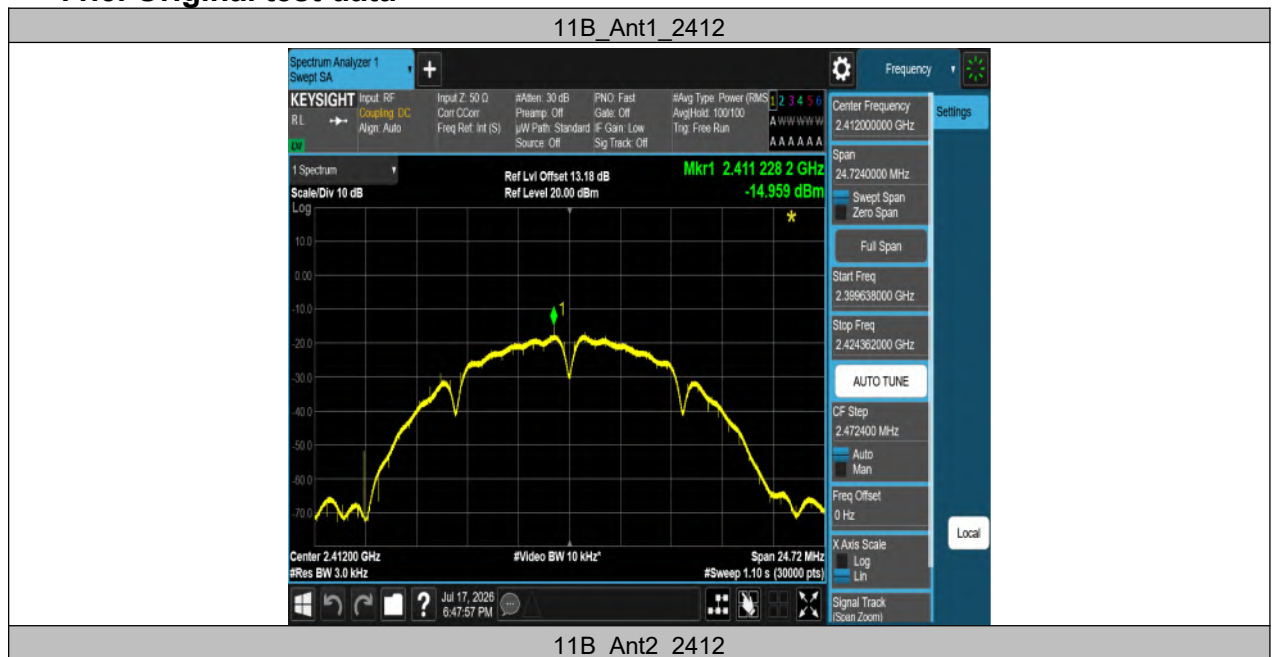
### 11.4. Results

| Test Mode | Ant.  | Freq. (MHz) | Result (dBm/3-100kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|-------|-------------|-----------------------|------------------|---------|
| 11B       | Ant1  | 2412        | -14.77                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2412        | -8.69                 | $\leq 8.00$      | PASS    |
|           | Ant1  | 2437        | -9.92                 | $\leq 8.00$      | PASS    |
|           | Ant2  | 2437        | -12.13                | $\leq 8.00$      | PASS    |
|           | Ant1  | 2462        | -14.07                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2462        | -10.52                | $\leq 8.00$      | PASS    |
| 11G       | Ant1  | 2412        | -15.82                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2412        | -19.70                | $\leq 8.00$      | PASS    |
|           | Ant1  | 2437        | -15.98                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2437        | -21.58                | $\leq 8.00$      | PASS    |
|           | Ant1  | 2462        | -15.62                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2462        | -21.39                | $\leq 8.00$      | PASS    |
| 11N20MIMO | Ant1  | 2412        | -16.98                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2412        | -17.10                | $\leq 8.00$      | PASS    |
|           | total | 2412        | -14.03                | $\leq 8.00$      | PASS    |
|           | Ant1  | 2437        | -18.59                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2437        | -19.32                | $\leq 8.00$      | PASS    |
|           | total | 2437        | -15.93                | $\leq 8.00$      | PASS    |
|           | Ant1  | 2462        | -19.38                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2462        | -19.82                | $\leq 8.00$      | PASS    |
|           | total | 2462        | -16.58                | $\leq 8.00$      | PASS    |
| 11N40MIMO | Ant1  | 2422        | -21.83                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2422        | -23.53                | $\leq 8.00$      | PASS    |
|           | total | 2422        | -19.59                | $\leq 8.00$      | PASS    |
|           | Ant1  | 2437        | -21.42                | $\leq 8.00$      | PASS    |
|           | Ant2  | 2437        | -22.02                | $\leq 8.00$      | PASS    |

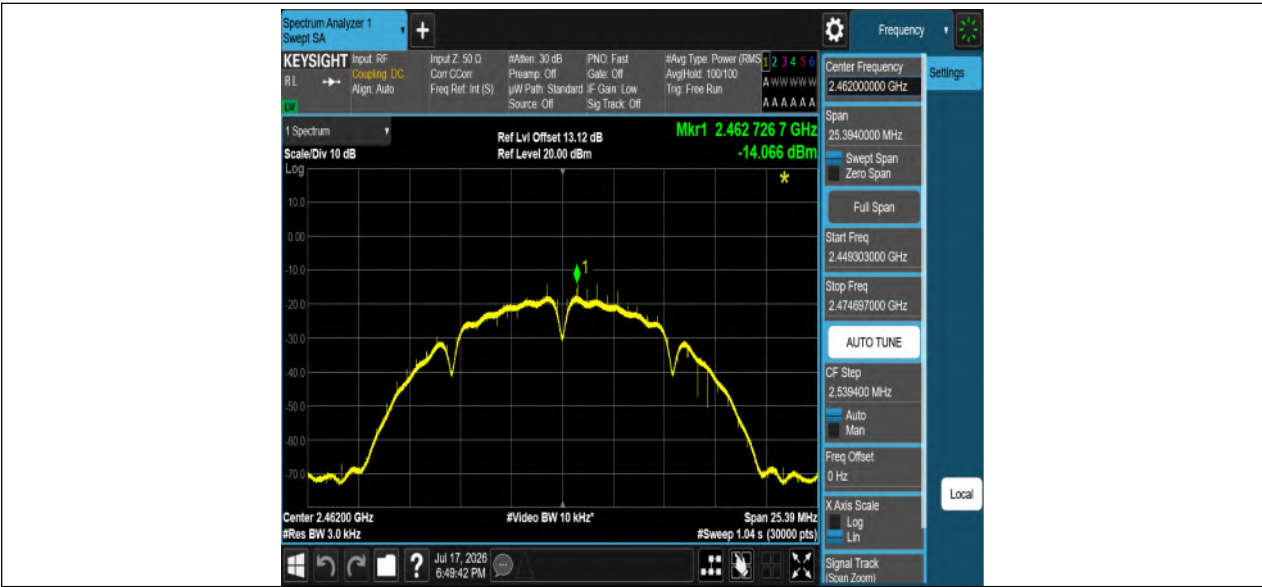
|            |       |      |        |       |      |
|------------|-------|------|--------|-------|------|
|            | total | 2437 | -18.70 | ≤8.00 | PASS |
|            | Ant1  | 2452 | -21.79 | ≤8.00 | PASS |
|            | Ant2  | 2452 | -22.66 | ≤8.00 | PASS |
|            | total | 2452 | -19.19 | ≤8.00 | PASS |
| 11AX20MIMO | Ant1  | 2412 | -19.53 | ≤8.00 | PASS |
|            | Ant2  | 2412 | -18.50 | ≤8.00 | PASS |
|            | total | 2412 | -15.97 | ≤8.00 | PASS |
|            | Ant1  | 2437 | -19.72 | ≤8.00 | PASS |
|            | Ant2  | 2437 | -20.20 | ≤8.00 | PASS |
|            | total | 2437 | -16.94 | ≤8.00 | PASS |
|            | Ant1  | 2462 | -19.42 | ≤8.00 | PASS |
|            | Ant2  | 2462 | -20.13 | ≤8.00 | PASS |
|            | total | 2462 | -16.75 | ≤8.00 | PASS |
|            | total | 2452 | -19.37 | ≤8.00 | PASS |
| 11AX40MIMO | Ant1  | 2422 | -22.12 | ≤8.00 | PASS |
|            | Ant2  | 2422 | -23.66 | ≤8.00 | PASS |
|            | total | 2422 | -19.81 | ≤8.00 | PASS |
|            | Ant1  | 2437 | -19.86 | ≤8.00 | PASS |
|            | Ant2  | 2437 | -10.44 | ≤8.00 | PASS |
|            | total | 2437 | -9.97  | ≤8.00 | PASS |
|            | Ant1  | 2452 | -22.18 | ≤8.00 | PASS |
|            | Ant2  | 2452 | -22.58 | ≤8.00 | PASS |
|            | total | 2452 | -19.37 | ≤8.00 | PASS |
|            | total | 2452 | -19.37 | ≤8.00 | PASS |

Note: Offset=cable loss + Test system insertion loss

## 11.5. Original test data



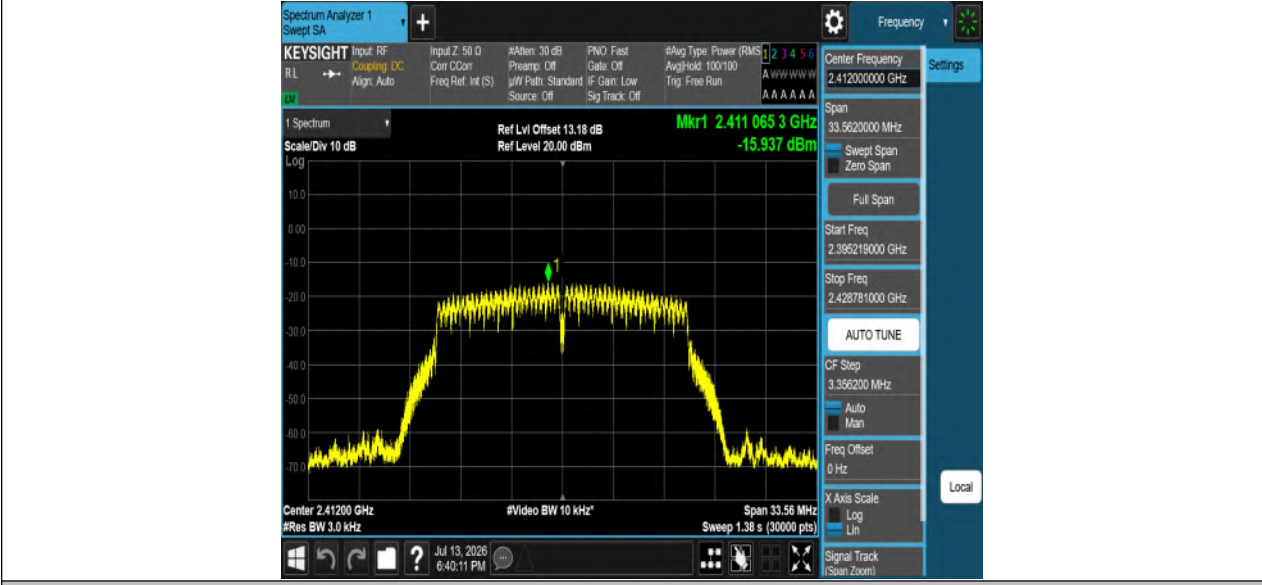




11B\_Ant2\_2462



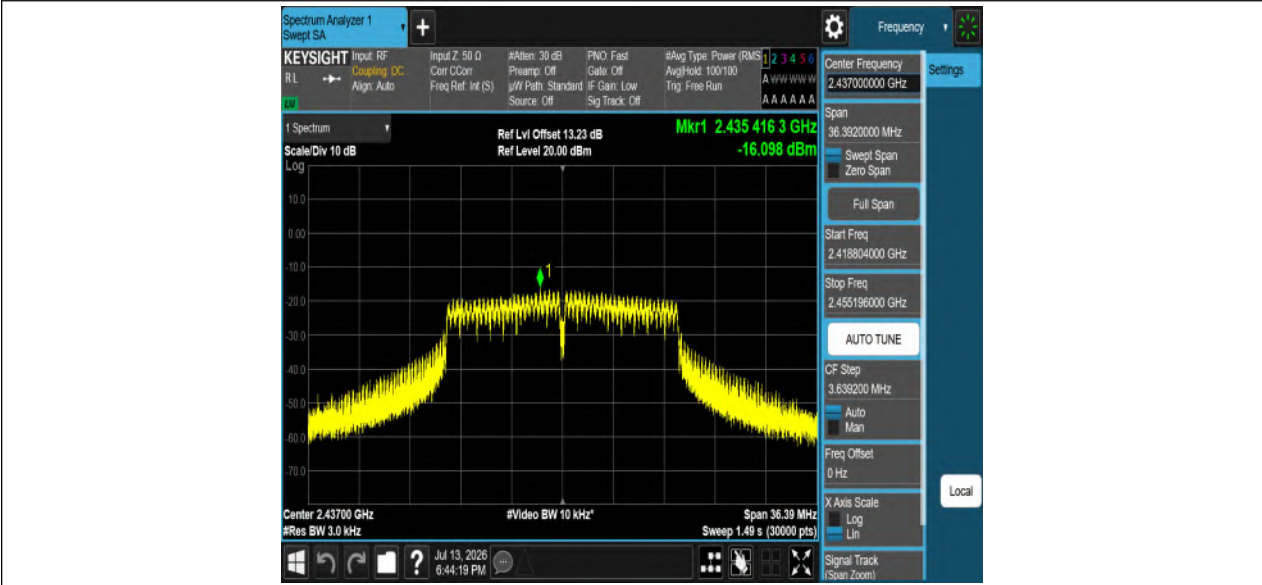
11G\_Ant1\_2412



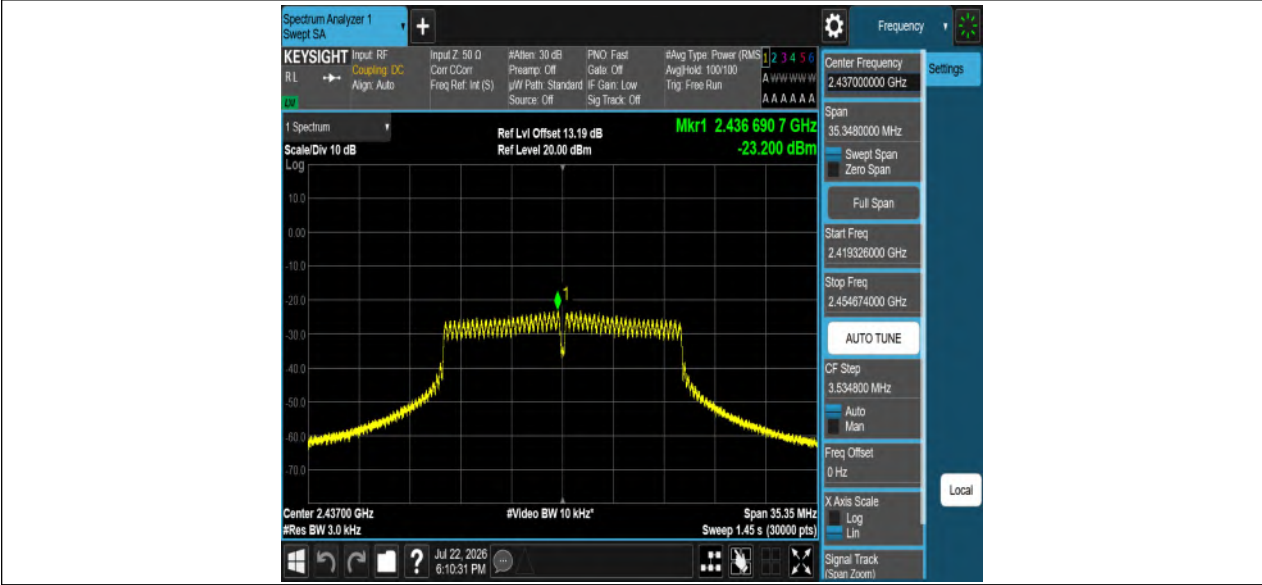
11G\_Ant2\_2412



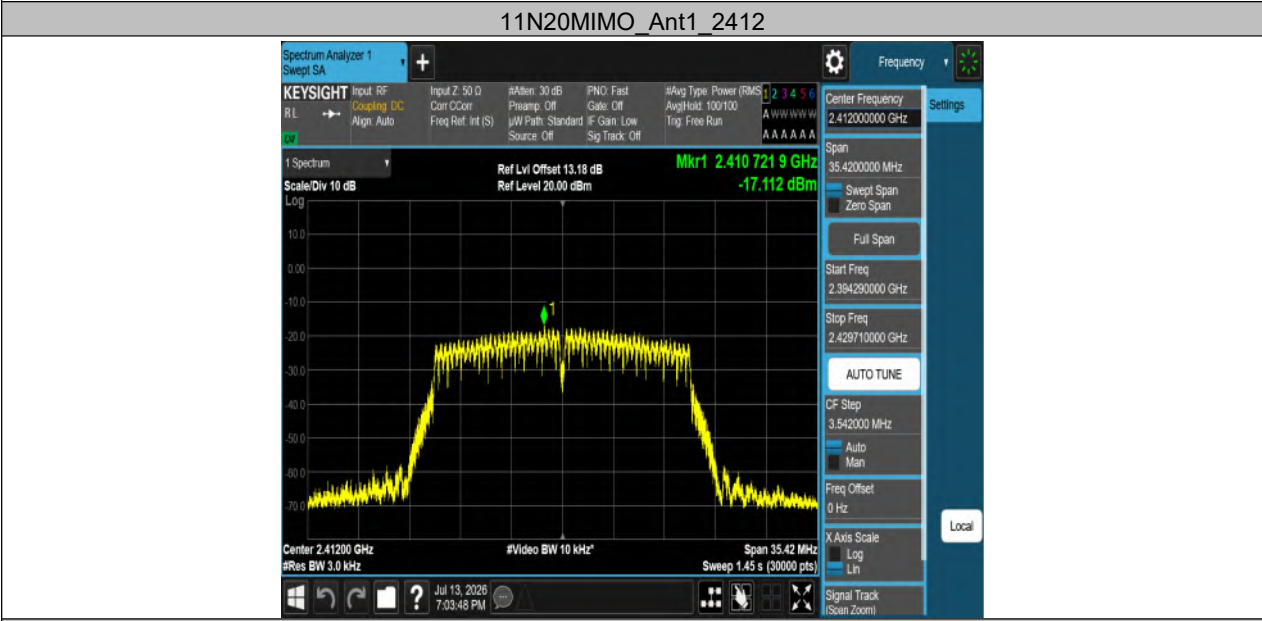
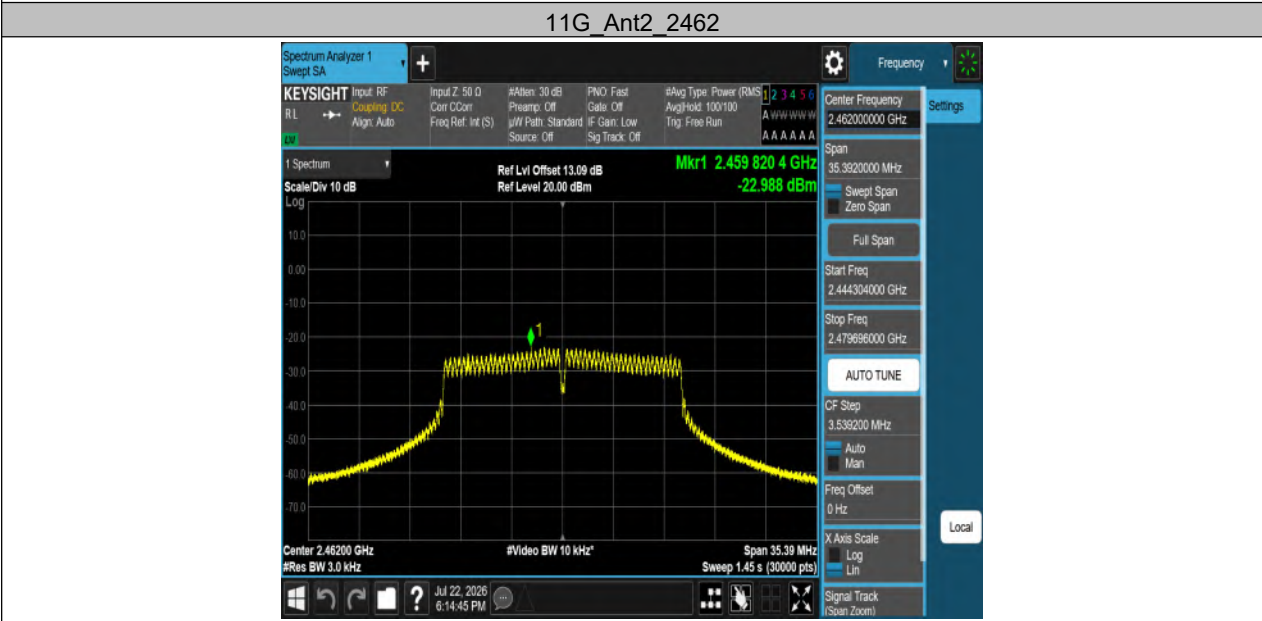
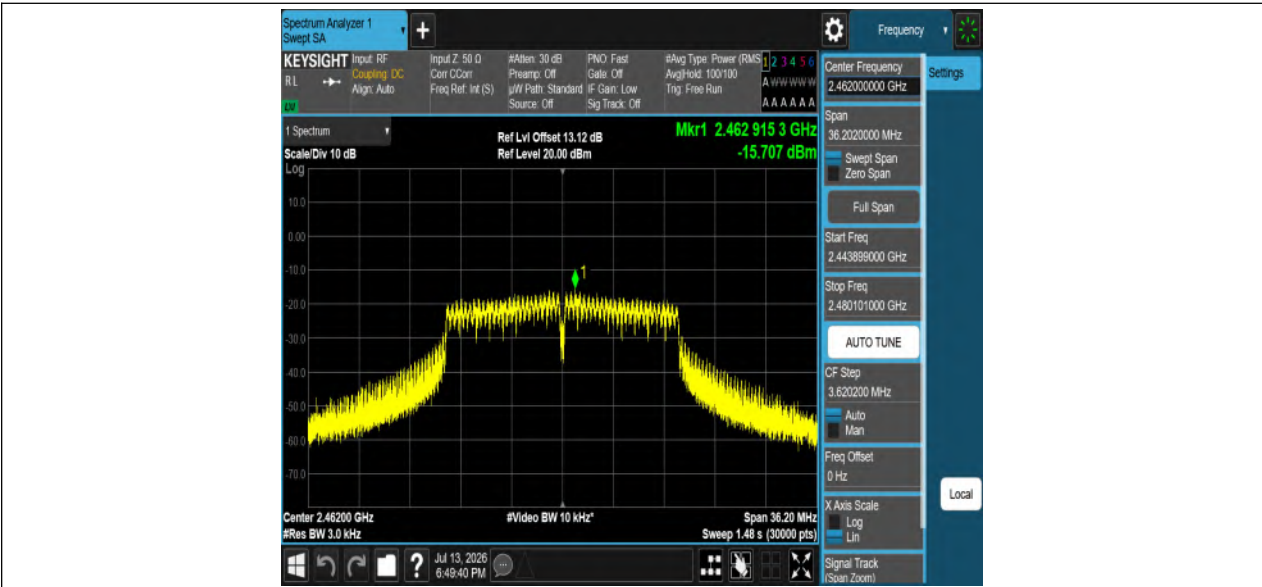
11G\_Ant1\_2437

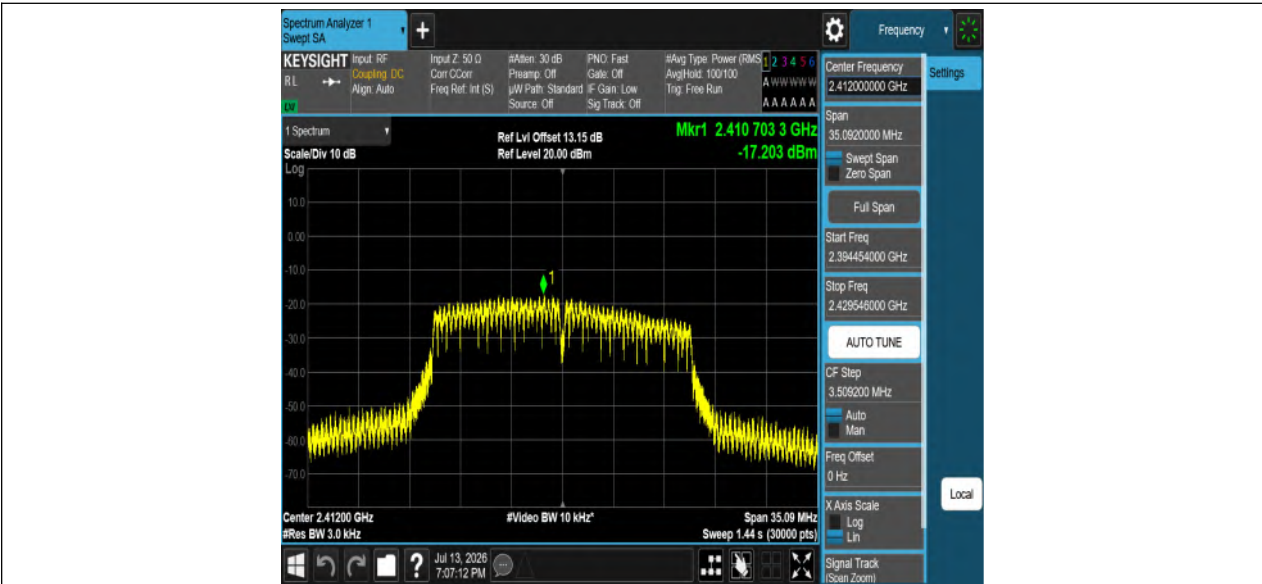


11G\_Ant2\_2437

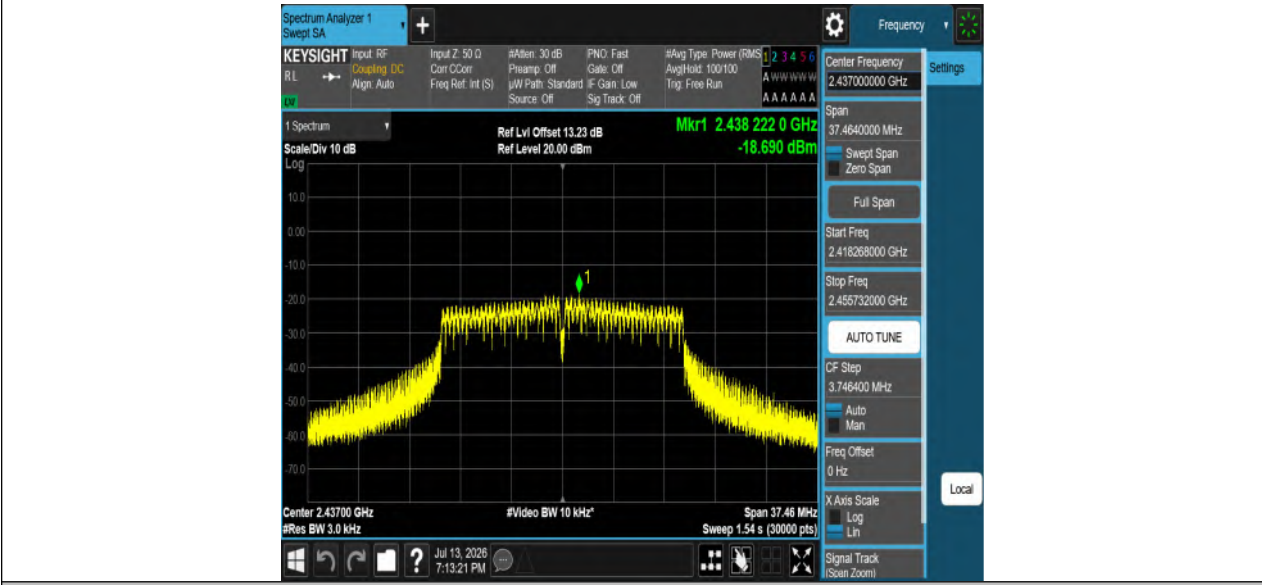


11G\_Ant1\_2462

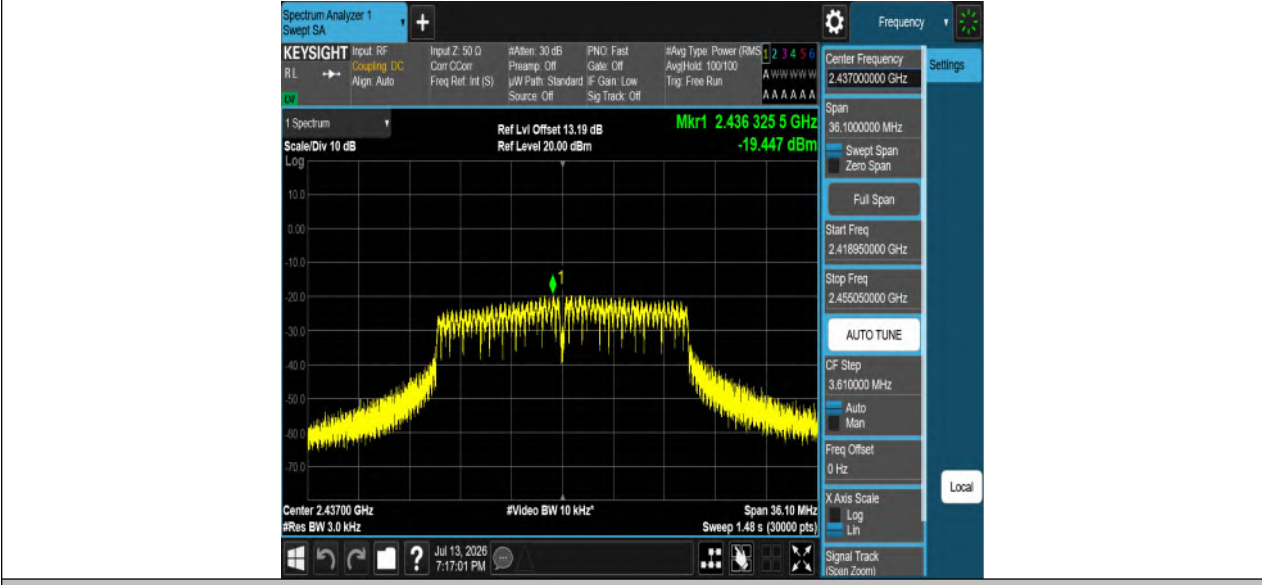




11N20MIMO\_Ant1\_2437



11N20MIMO\_Ant2\_2437



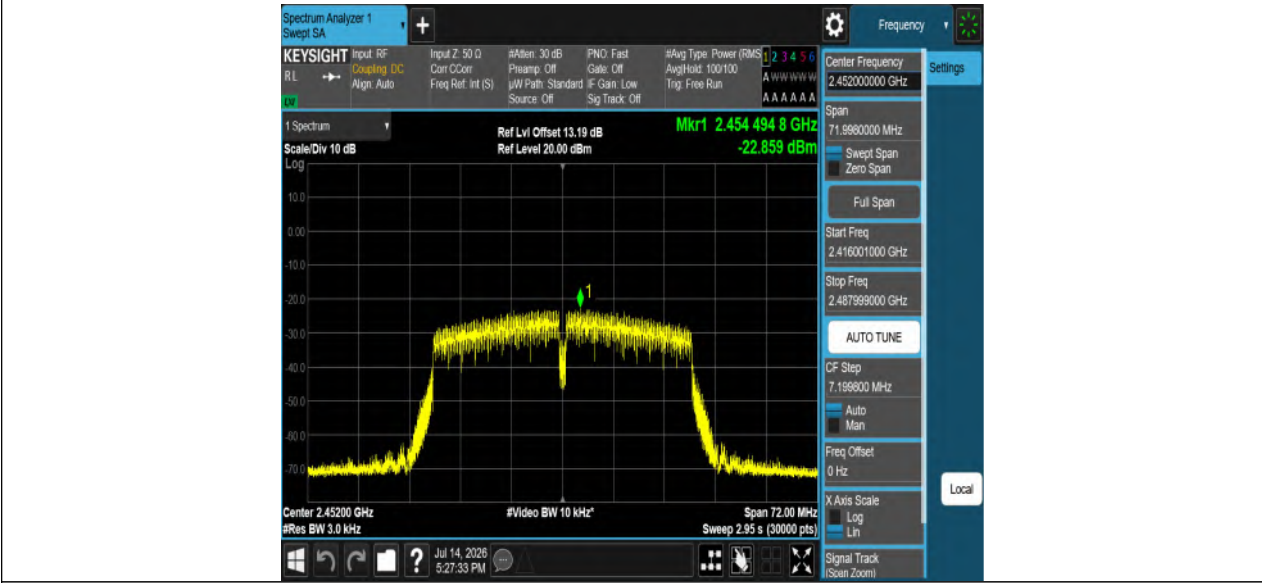
11N20MIMO\_Ant1\_2462



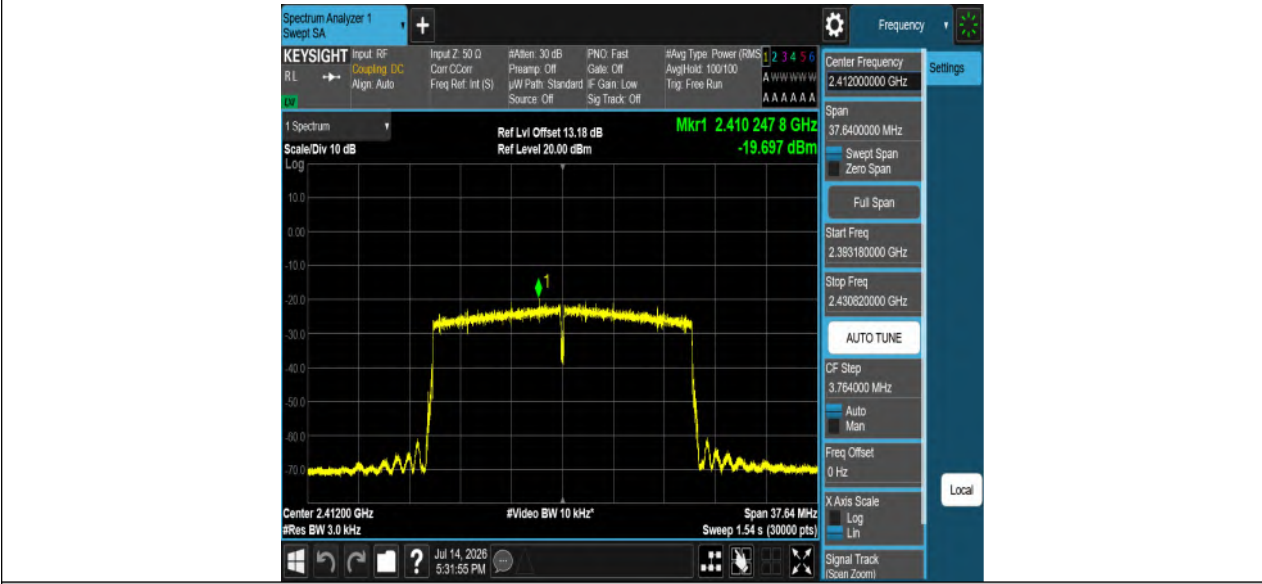




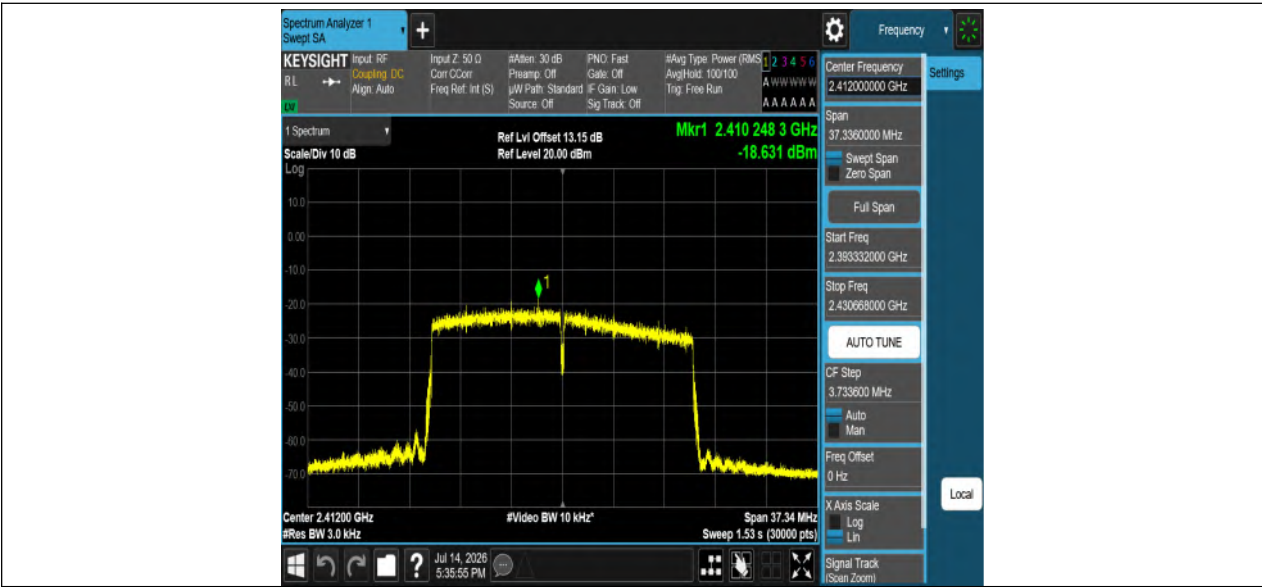
11N40MIMO\_Ant2\_2452



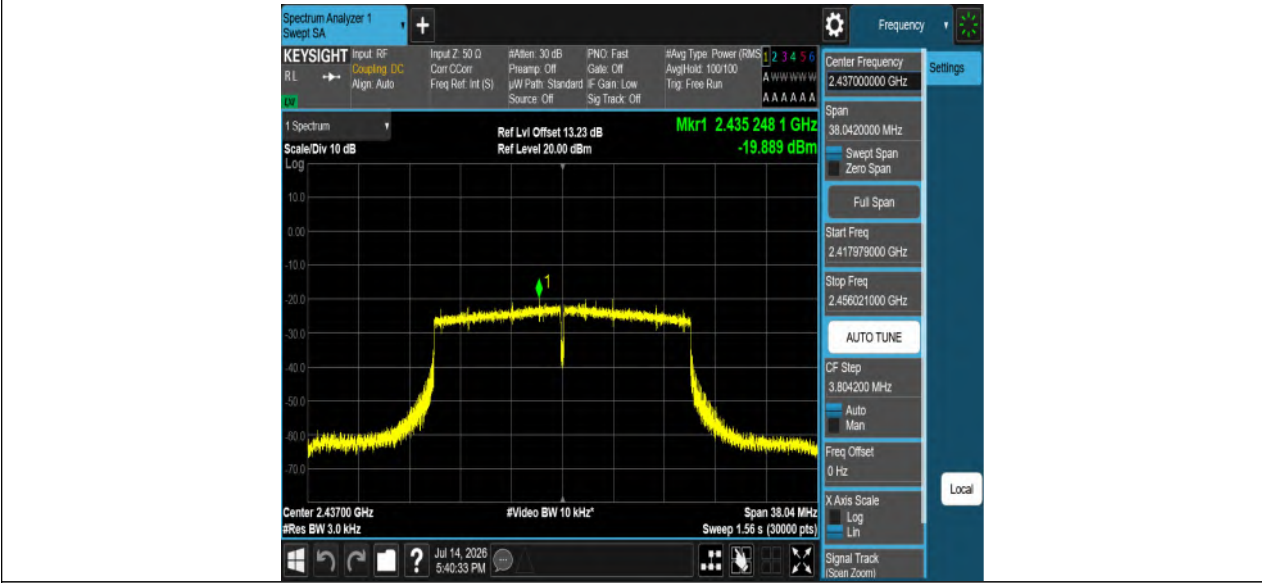
11AX20MIMO\_Ant1\_2412



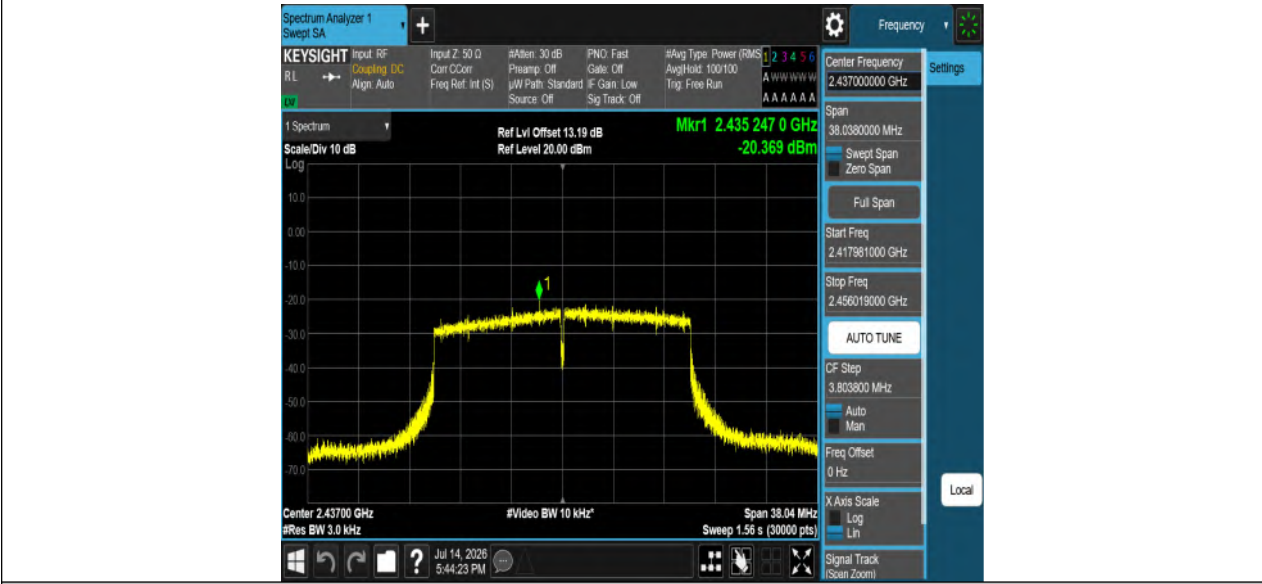
11AX20MIMO\_Ant2\_2412



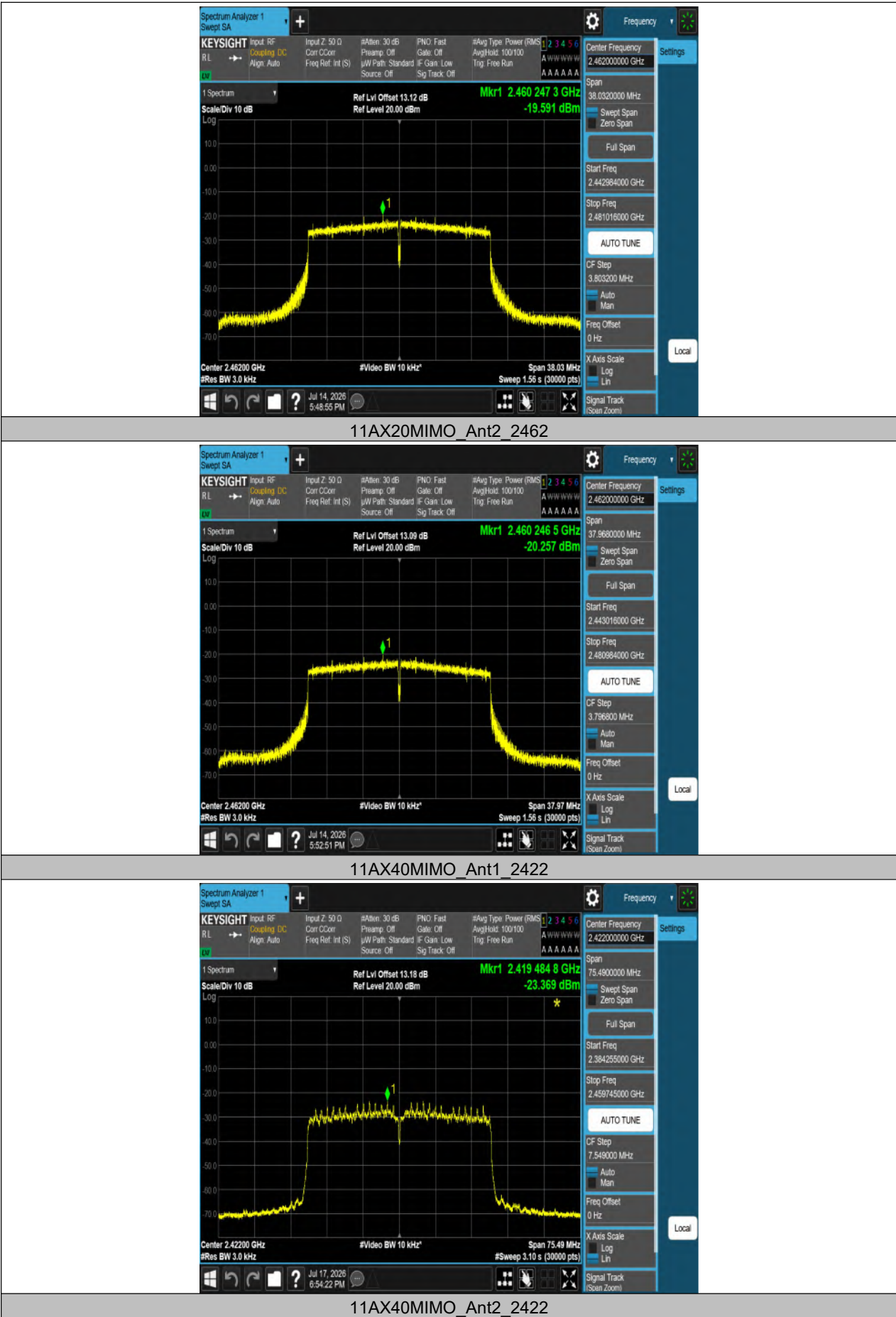
11AX20MIMO\_Ant1\_2437

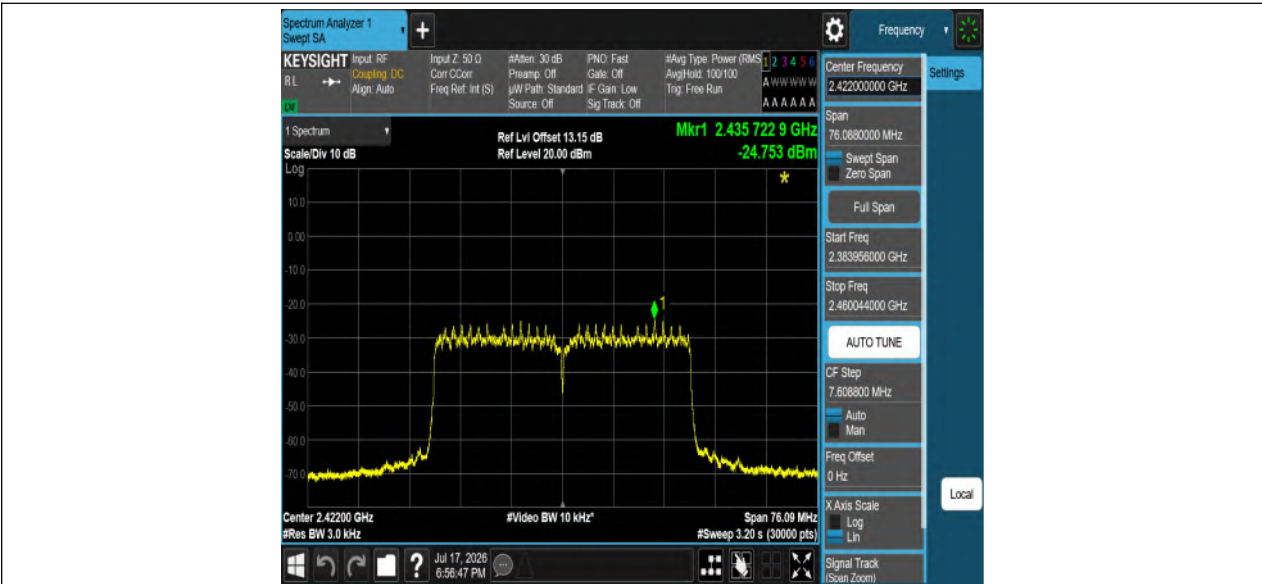


11AX20MIMO\_Ant2\_2437



11AX20MIMO\_Ant1\_2462

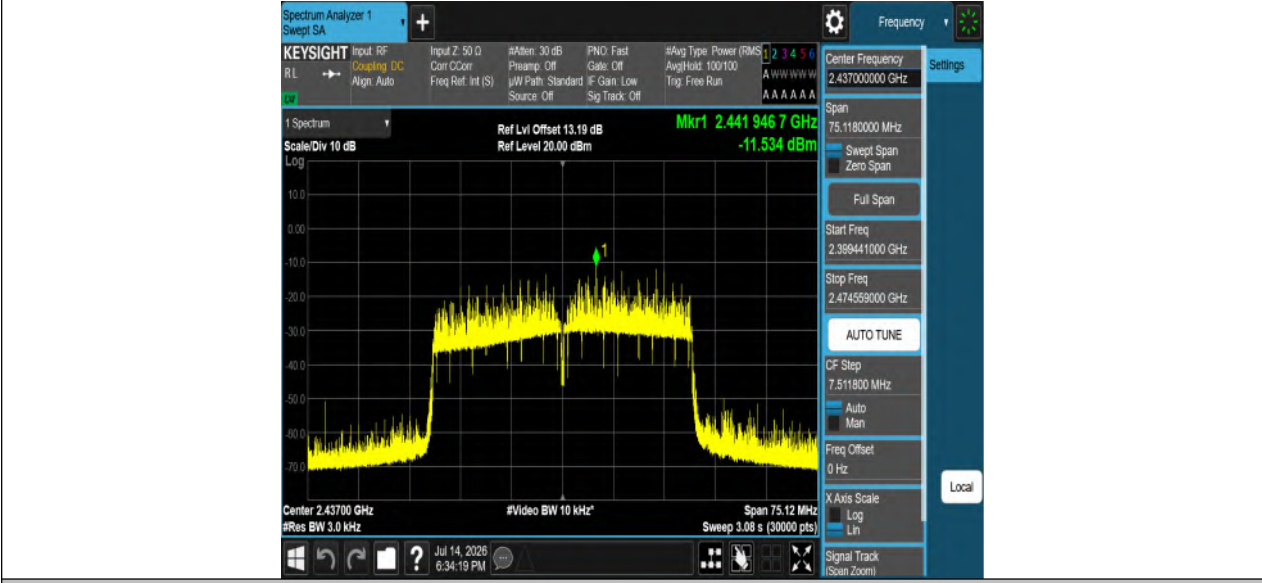




11AX40MIMO\_Ant1\_2437



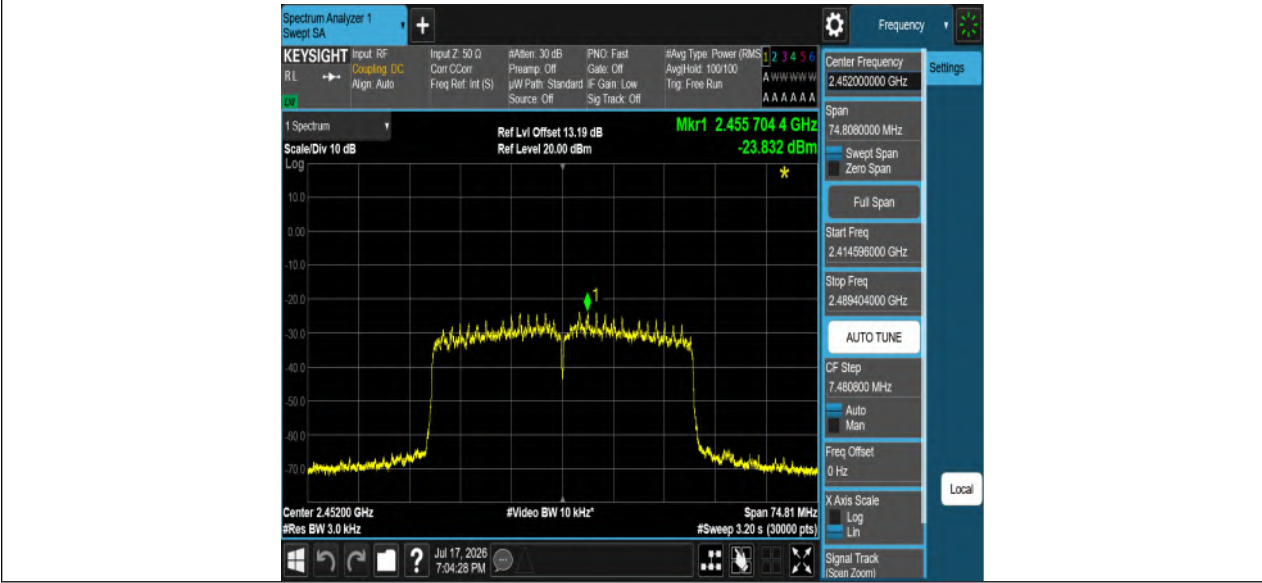
11AX40MIMO\_Ant2\_2437



11AX40MIMO\_Ant1\_2452



11AX40MIMO\_Ant2\_2452



## 12. Conducted Band edge and Spurious Emissions

### 12.1. Block diagram of test setup

Same as section 8.1

### 12.2. Limits

| CFR 47 FCC Part15 (15.247) Subpart C |                                           |                                                                                                                         |
|--------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Section                              | Test Item                                 | Limit                                                                                                                   |
| CFR 47 FCC §15.247 (d)               | Conducted Bandedge and Spurious Emissions | at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power |

### 12.3. Test Procedure

|                  |                                                |
|------------------|------------------------------------------------|
| Center Frequency | The centre frequency of the channel under test |
| Detector         | Peak                                           |
| RBW              | 100 kHz                                        |
| VBW              | $\geq 3 \times \text{RBW}$                     |
| Span             | 1.5 x DTS bandwidth                            |
| Trace            | Max hold                                       |
| Sweep time       | Auto couple.                                   |

Connect the UUT to the spectrum analyzer and use the following settings:

Use the peak marker function to determine the maximum PSD level.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Span               | Set the center frequency and span to encompass frequency range to be measured |
| Detector           | Peak                                                                          |
| RBW                | 100 kHz                                                                       |
| VBW                | $\geq 3 \times \text{RBW}$                                                    |
| measurement points | $\geq \text{span/RBW}$                                                        |
| Trace              | Max hold                                                                      |
| Sweep time         | Auto couple.                                                                  |

Use the peak marker function to determine the maximum amplitude level.

### 12.4. Test result

| Test Mode | Ant. | Ch Name | Freq. (MHz) | Ref Level (dBm) | Result (dBm) | Limit (dBm)   | Verdict |
|-----------|------|---------|-------------|-----------------|--------------|---------------|---------|
| 11B       | Ant1 | Low     | 2412        | 8.44            | -34.28       | $\leq -21.56$ | PASS    |
|           | Ant2 | Low     | 2412        | 7.64            | -32.33       | $\leq -22.37$ | PASS    |
|           | Ant1 | High    | 2462        | 8.21            | -46.17       | $\leq -21.79$ | PASS    |
|           | Ant2 | High    | 2462        | 7.31            | -46.48       | $\leq -22.69$ | PASS    |
| 11G       | Ant1 | Low     | 2412        | 4.10            | -38.43       | $\leq -25.9$  | PASS    |
|           | Ant2 | Low     | 2412        | 1.14            | -43.52       | $\leq -28.87$ | PASS    |
|           | Ant1 | High    | 2462        | 4.21            | -44.55       | $\leq -25.8$  | PASS    |
|           | Ant2 | High    | 2462        | -0.76           | -45.11       | $\leq -30.76$ | PASS    |
| 11N20MIMO | Ant1 | Low     | 2412        | 3.35            | -38.17       | $\leq -26.65$ | PASS    |
|           | Ant2 | Low     | 2412        | 3.31            | -27.74       | $\leq -26.69$ | PASS    |
|           | Ant1 | High    | 2462        | 0.25            | -45.78       | $\leq -29.75$ | PASS    |
|           | Ant2 | High    | 2462        | 0.69            | -45.01       | $\leq -29.31$ | PASS    |
| 11N40MIMO | Ant1 | Low     | 2422        | -0.09           | -41.61       | $\leq -30.09$ | PASS    |

|            |      |      |      |       |        |               |      |
|------------|------|------|------|-------|--------|---------------|------|
|            | Ant2 | Low  | 2422 | -2.60 | -36.3  | $\leq -32.6$  | PASS |
|            | Ant1 | High | 2452 | -0.26 | -45.11 | $\leq -30.26$ | PASS |
|            | Ant2 | High | 2452 | -1.54 | -45.71 | $\leq -31.54$ | PASS |
| 11AX20MIMO | Ant1 | Low  | 2412 | 1.95  | -44.01 | $\leq -28.05$ | PASS |
|            | Ant2 | Low  | 2412 | 1.52  | -39.84 | $\leq -28.48$ | PASS |
|            | Ant1 | High | 2462 | 2.11  | -45.97 | $\leq -27.89$ | PASS |
|            | Ant2 | High | 2462 | 0.24  | -45.98 | $\leq -29.76$ | PASS |
| 11AX40MIMO | Ant1 | Low  | 2422 | 1.59  | -35.11 | $\leq -28.41$ | PASS |
|            | Ant2 | Low  | 2422 | -0.25 | -31.95 | $\leq -30.25$ | PASS |
|            | Ant1 | High | 2452 | 1.43  | -40.76 | $\leq -28.57$ | PASS |
|            | Ant2 | High | 2452 | 1.02  | -39.56 | $\leq -28.98$ | PASS |

Note: Offset=cable loss + Test system insertion loss

| Test Mode | Ant. | Freq. (MHz) | Freq Range (Mhz) | Ref Level (dBm) | Result (dBm) | Limit (dBm)   | Verdict |
|-----------|------|-------------|------------------|-----------------|--------------|---------------|---------|
| 11B       | Ant1 | 2412        | Reference        | 4.45            | 4.45         | ---           | PASS    |
|           |      |             | 30~1000          | 4.45            | -60.77       | $\leq -25.55$ | PASS    |
|           |      |             | 1000~26500       | 4.45            | -46          | $\leq -25.55$ | PASS    |
|           | Ant2 | 2412        | Reference        | 5.99            | 5.99         | ---           | PASS    |
|           |      |             | 30~1000          | 5.99            | -60.94       | $\leq -24.01$ | PASS    |
|           |      |             | 1000~26500       | 5.99            | -46.77       | $\leq -24.01$ | PASS    |
|           | Ant1 | 2437        | Reference        | 8.24            | 8.24         | ---           | PASS    |
|           |      |             | 30~1000          | 8.24            | -60.71       | $\leq -21.76$ | PASS    |
|           |      |             | 1000~26500       | 8.24            | -46.29       | $\leq -21.76$ | PASS    |
|           | Ant2 | 2437        | Reference        | 5.58            | 5.58         | ---           | PASS    |
|           |      |             | 30~1000          | 5.58            | -60.36       | $\leq -24.42$ | PASS    |
|           |      |             | 1000~26500       | 5.58            | -46.51       | $\leq -24.42$ | PASS    |
|           | Ant1 | 2462        | Reference        | 4.15            | 4.15         | ---           | PASS    |
|           |      |             | 30~1000          | 4.15            | -60.5        | $\leq -25.85$ | PASS    |
|           |      |             | 1000~26500       | 4.15            | -46.24       | $\leq -25.85$ | PASS    |
|           | Ant2 | 2462        | Reference        | 6.76            | 6.76         | ---           | PASS    |
|           |      |             | 30~1000          | 6.76            | -60.75       | $\leq -23.24$ | PASS    |
|           |      |             | 1000~26500       | 6.76            | -46.71       | $\leq -23.24$ | PASS    |
| 11G       | Ant1 | 2412        | Reference        | 4.65            | 4.65         | ---           | PASS    |
|           |      |             | 30~1000          | 4.65            | -60.62       | $\leq -25.35$ | PASS    |
|           |      |             | 1000~26500       | 4.65            | -46.88       | $\leq -25.35$ | PASS    |
|           | Ant2 | 2412        | Reference        | -1.42           | -1.42        | ---           | PASS    |
|           |      |             | 30~1000          | -1.42           | -61.1        | $\leq -31.42$ | PASS    |
|           |      |             | 1000~26500       | -1.42           | -46.21       | $\leq -31.42$ | PASS    |
|           | Ant1 | 2437        | Reference        | 0.87            | 0.87         | ---           | PASS    |
|           |      |             | 30~1000          | 0.87            | -61.02       | $\leq -29.13$ | PASS    |
|           |      |             | 1000~26500       | 0.87            | -46.69       | $\leq -29.13$ | PASS    |
|           | Ant2 | 2437        | Reference        | -1.86           | -1.86        | ---           | PASS    |
|           |      |             | 30~1000          | -1.86           | -61.14       | $\leq -31.86$ | PASS    |
|           |      |             | 1000~26500       | -1.86           | -46.37       | $\leq -31.86$ | PASS    |
|           | Ant1 | 2462        | Reference        | 2.38            | 2.38         | ---           | PASS    |
|           |      |             | 30~1000          | 2.38            | -61.31       | $\leq -27.62$ | PASS    |
|           |      |             | 1000~26500       | 2.38            | -46.71       | $\leq -27.62$ | PASS    |
|           | Ant2 | 2462        | Reference        | -2.77           | -2.77        | ---           | PASS    |
|           |      |             | 30~1000          | -2.77           | -60.68       | $\leq -32.77$ | PASS    |
|           |      |             | 1000~26500       | -2.77           | -46.13       | $\leq -32.77$ | PASS    |
| 11N20MIMO | Ant1 | 2412        | Reference        | 0.40            | 0.40         | ---           | PASS    |
|           |      |             | 30~1000          | 0.40            | -61.08       | $\leq -29.6$  | PASS    |
|           |      |             | 1000~26500       | 0.40            | -46.03       | $\leq -29.6$  | PASS    |
|           | Ant2 | 2412        | Reference        | 1.01            | 1.01         | ---           | PASS    |

|            |      |      |            |            |        |               |      |
|------------|------|------|------------|------------|--------|---------------|------|
|            |      |      | 30~1000    | 1.01       | -60.3  | $\leq -28.99$ | PASS |
|            |      |      | 1000~26500 | 1.01       | -46.75 | $\leq -28.99$ | PASS |
|            |      | Ant1 | 2437       | Reference  | 2.16   | ---           | PASS |
|            |      |      |            | 30~1000    | 2.16   | $\leq -27.84$ | PASS |
|            |      |      |            | 1000~26500 | 2.16   | $\leq -27.84$ | PASS |
|            |      | Ant2 | 2437       | Reference  | 0.77   | ---           | PASS |
|            |      |      |            | 30~1000    | 0.77   | $\leq -29.23$ | PASS |
|            |      |      |            | 1000~26500 | 0.77   | $\leq -29.23$ | PASS |
|            |      | Ant1 | 2462       | Reference  | 0.56   | ---           | PASS |
|            |      |      |            | 30~1000    | 0.56   | $\leq -29.44$ | PASS |
|            |      |      |            | 1000~26500 | 0.56   | $\leq -29.44$ | PASS |
|            |      | Ant2 | 2462       | Reference  | 0.66   | ---           | PASS |
|            |      |      |            | 30~1000    | 0.66   | $\leq -29.34$ | PASS |
|            |      |      |            | 1000~26500 | 0.66   | $\leq -29.34$ | PASS |
| 11N40MIMO  | Ant1 | 2422 | Reference  | -1.04      | -1.04  | ---           | PASS |
|            |      |      | 30~1000    | -1.04      | -61.54 | $\leq -31.04$ | PASS |
|            |      |      | 1000~26500 | -1.04      | -46.91 | $\leq -31.04$ | PASS |
|            | Ant2 | 2422 | Reference  | -3.88      | -3.88  | ---           | PASS |
|            |      |      | 30~1000    | -3.88      | -60.01 | $\leq -33.88$ | PASS |
|            |      |      | 1000~26500 | -3.88      | -46.79 | $\leq -33.88$ | PASS |
|            | Ant1 | 2437 | Reference  | -3.79      | -3.79  | ---           | PASS |
|            |      |      | 30~1000    | -3.79      | -61.11 | $\leq -33.79$ | PASS |
|            |      |      | 1000~26500 | -3.79      | -46.76 | $\leq -33.79$ | PASS |
|            | Ant2 | 2437 | Reference  | -1.06      | -1.06  | ---           | PASS |
|            |      |      | 30~1000    | -1.06      | -59.89 | $\leq -31.06$ | PASS |
|            |      |      | 1000~26500 | -1.06      | -46.63 | $\leq -31.06$ | PASS |
|            | Ant1 | 2452 | Reference  | -0.56      | -0.56  | ---           | PASS |
|            |      |      | 30~1000    | -0.56      | -61.18 | $\leq -30.56$ | PASS |
|            |      |      | 1000~26500 | -0.56      | -46.57 | $\leq -30.56$ | PASS |
|            | Ant2 | 2452 | Reference  | -4.43      | -4.43  | ---           | PASS |
|            |      |      | 30~1000    | -4.43      | -61.24 | $\leq -34.43$ | PASS |
|            |      |      | 1000~26500 | -4.43      | -46.32 | $\leq -34.43$ | PASS |
| 11AX20MIMO | Ant1 | 2412 | Reference  | -1.89      | -1.89  | ---           | PASS |
|            |      |      | 30~1000    | -1.89      | -60.77 | $\leq -31.89$ | PASS |
|            |      |      | 1000~26500 | -1.89      | -46.83 | $\leq -31.89$ | PASS |
|            | Ant2 | 2412 | Reference  | -1.32      | -1.32  | ---           | PASS |
|            |      |      | 30~1000    | -1.32      | -60.89 | $\leq -31.32$ | PASS |
|            |      |      | 1000~26500 | -1.32      | -45.87 | $\leq -31.32$ | PASS |
|            | Ant1 | 2437 | Reference  | -0.43      | -0.43  | ---           | PASS |
|            |      |      | 30~1000    | -0.43      | -61.2  | $\leq -30.43$ | PASS |
|            |      |      | 1000~26500 | -0.43      | -46.33 | $\leq -30.43$ | PASS |
|            | Ant2 | 2437 | Reference  | -2.13      | -2.13  | ---           | PASS |
|            |      |      | 30~1000    | -2.13      | -60.55 | $\leq -32.13$ | PASS |
|            |      |      | 1000~26500 | -2.13      | -46.78 | $\leq -32.13$ | PASS |
|            | Ant1 | 2462 | Reference  | 0.77       | 0.77   | ---           | PASS |
|            |      |      | 30~1000    | 0.77       | -61.28 | $\leq -29.23$ | PASS |
|            |      |      | 1000~26500 | 0.77       | -46.9  | $\leq -29.23$ | PASS |
|            | Ant2 | 2462 | Reference  | 0.04       | 0.04   | ---           | PASS |
|            |      |      | 30~1000    | 0.04       | -61.38 | $\leq -29.96$ | PASS |
|            |      |      | 1000~26500 | 0.04       | -46.28 | $\leq -29.96$ | PASS |
| 11AX40MIMO | Ant1 | 2422 | Reference  | -0.81      | -0.81  | ---           | PASS |
|            |      |      | 30~1000    | -0.81      | -60.64 | $\leq -30.81$ | PASS |
|            |      |      | 1000~26500 | -0.81      | -46.29 | $\leq -30.81$ | PASS |
|            | Ant2 | 2422 | Reference  | -2.37      | -2.37  | ---           | PASS |
|            |      |      | 30~1000    | -2.37      | -61.05 | $\leq -32.37$ | PASS |
|            |      |      | 1000~26500 | -2.37      | -46.16 | $\leq -32.37$ | PASS |

|  |      |      |            |       |        |               |      |
|--|------|------|------------|-------|--------|---------------|------|
|  | Ant1 | 2437 | Reference  | 1.38  | 1.38   | ---           | PASS |
|  |      |      | 30~1000    | 1.38  | -60.98 | $\leq -28.62$ | PASS |
|  |      |      | 1000~26500 | 1.38  | -46.56 | $\leq -28.62$ | PASS |
|  | Ant2 | 2437 | Reference  | 0.64  | 0.64   | ---           | PASS |
|  |      |      | 30~1000    | 0.64  | -61.31 | $\leq -29.36$ | PASS |
|  |      |      | 1000~26500 | 0.64  | -46.19 | $\leq -29.36$ | PASS |
|  | Ant1 | 2452 | Reference  | -0.88 | -0.88  | ---           | PASS |
|  |      |      | 30~1000    | -0.88 | -60.79 | $\leq -30.88$ | PASS |
|  |      |      | 1000~26500 | -0.88 | -46.38 | $\leq -30.88$ | PASS |
|  | Ant2 | 2452 | Reference  | -0.77 | -0.77  | ---           | PASS |
|  |      |      | 30~1000    | -0.77 | -60.43 | $\leq -30.77$ | PASS |
|  |      |      | 1000~26500 | -0.77 | -46.29 | $\leq -30.77$ | PASS |

Note: Offset=cable loss + Test system insertion loss

12.5. Original test data

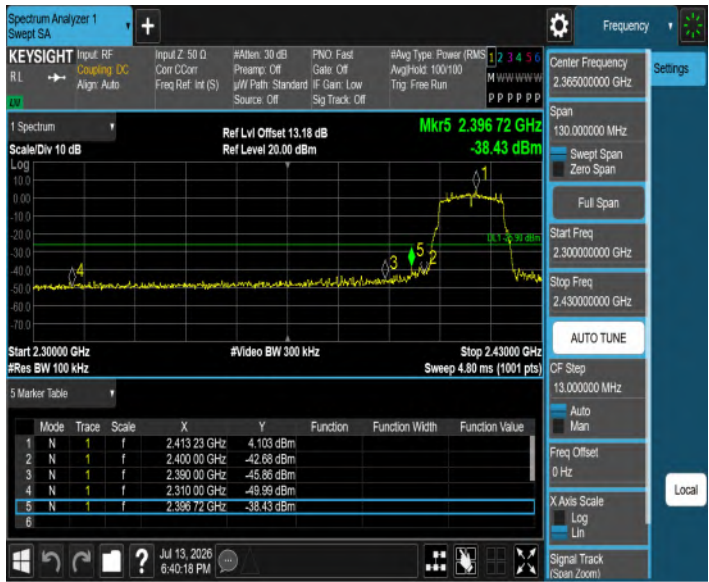
Band edge:



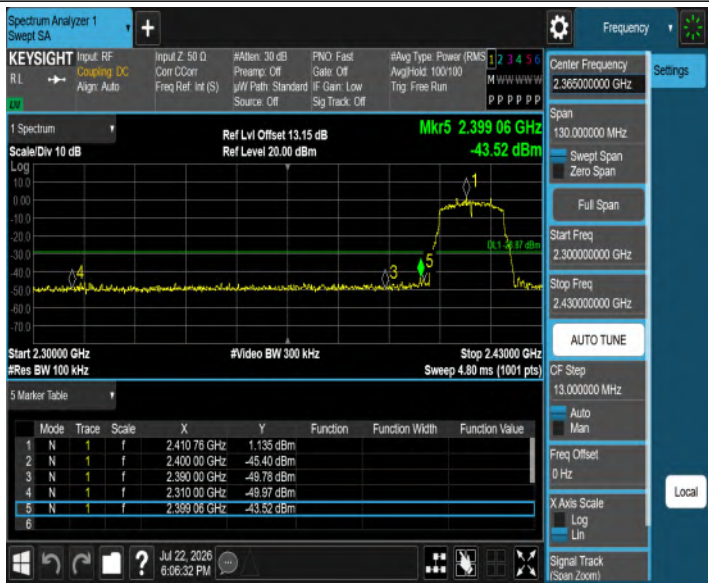
11B\_Ant2\_High\_2462



11G\_Ant1\_Low\_2412



11G\_Ant2\_Low\_2412



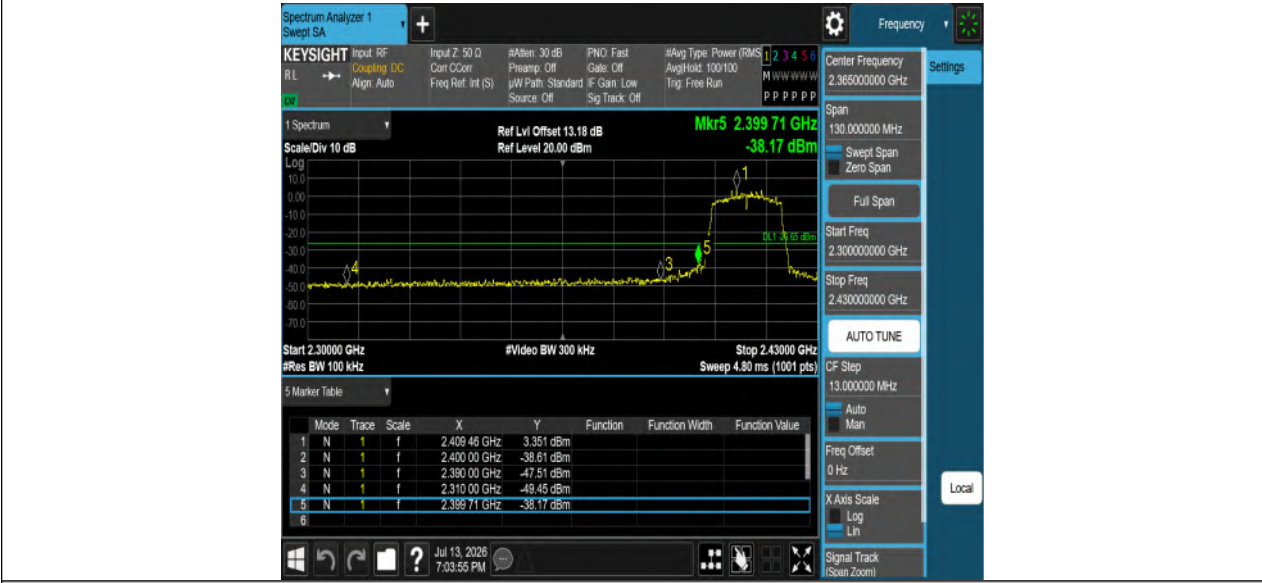
11G\_Ant1\_High\_2462



11G\_Ant2\_High\_2462

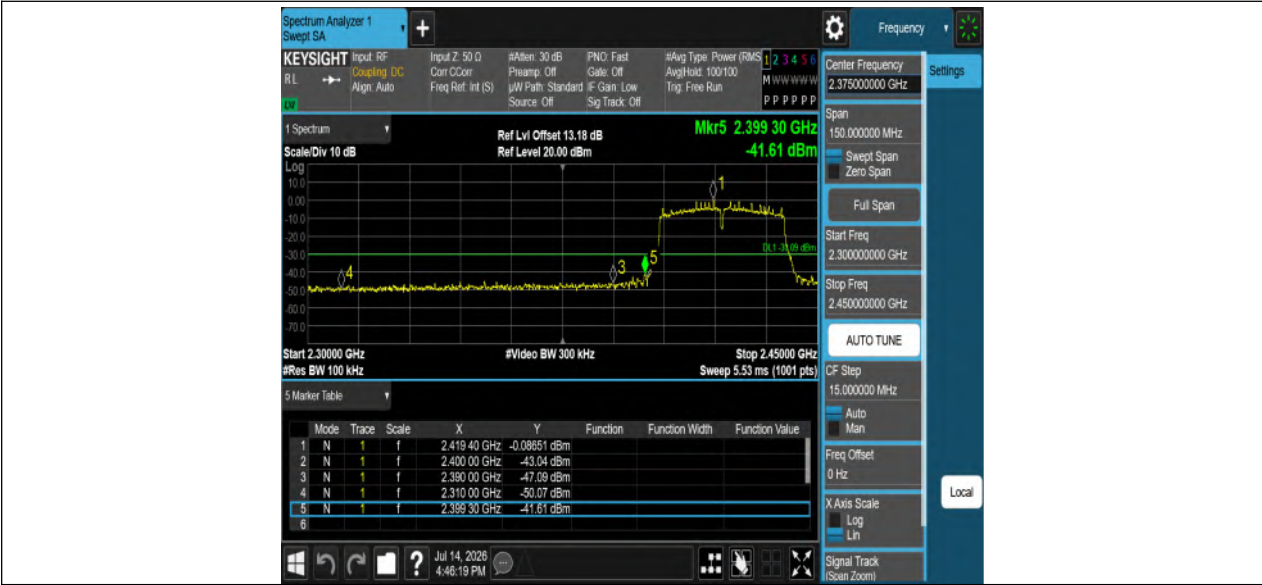


11N20MIMO\_Ant1\_Low\_2412

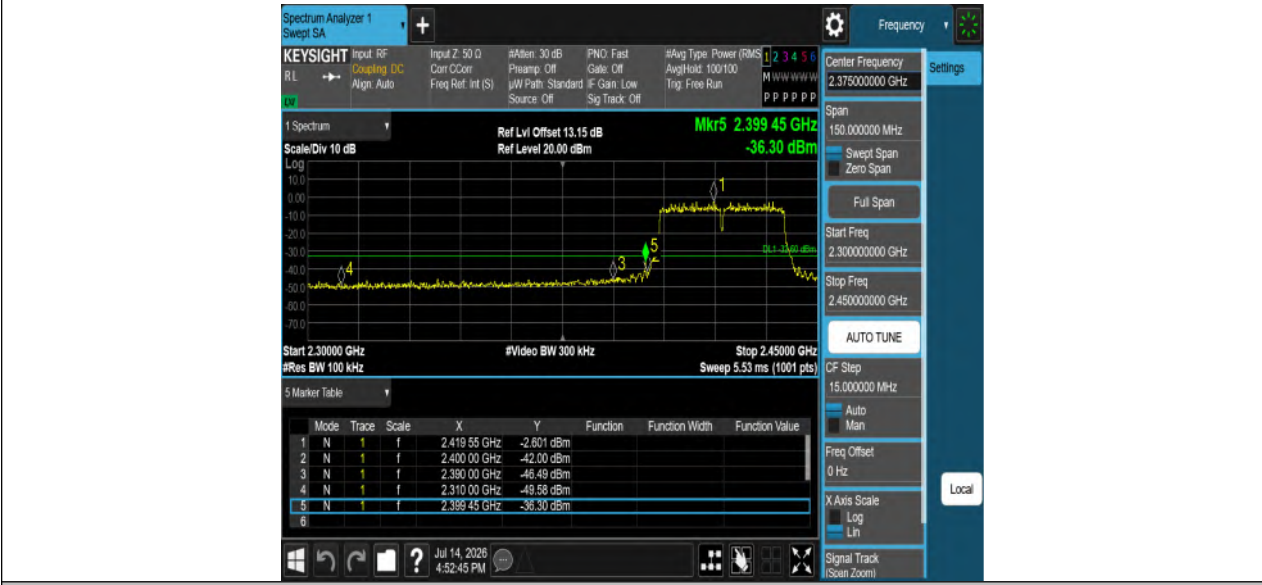


11N20MIMO\_Ant2\_Low\_2412





11N40MIMO\_Ant2\_Low\_2422



11N40MIMO\_Ant1\_High\_2452



11N40MIMO\_Ant2\_High\_2452



