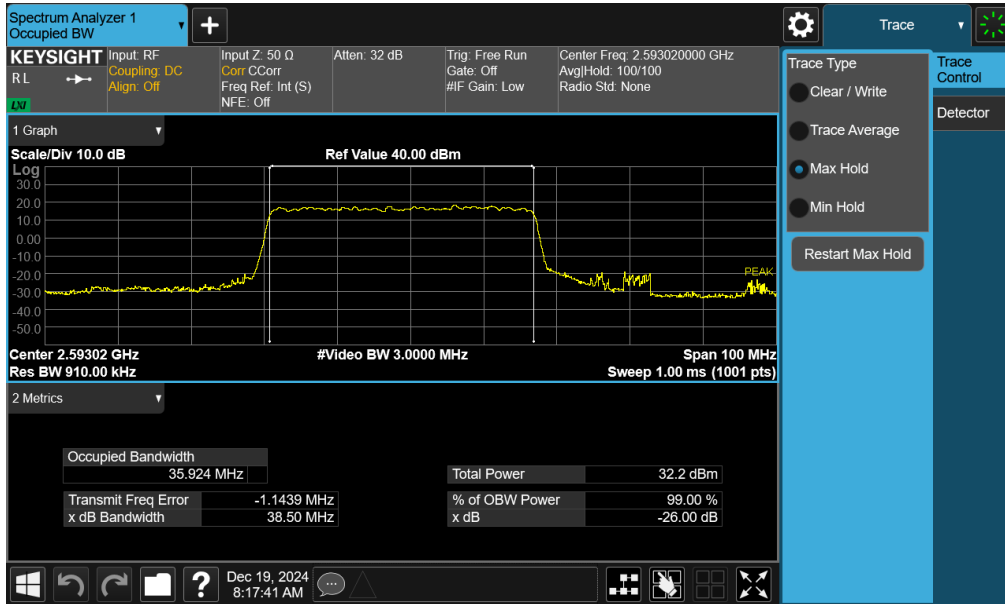
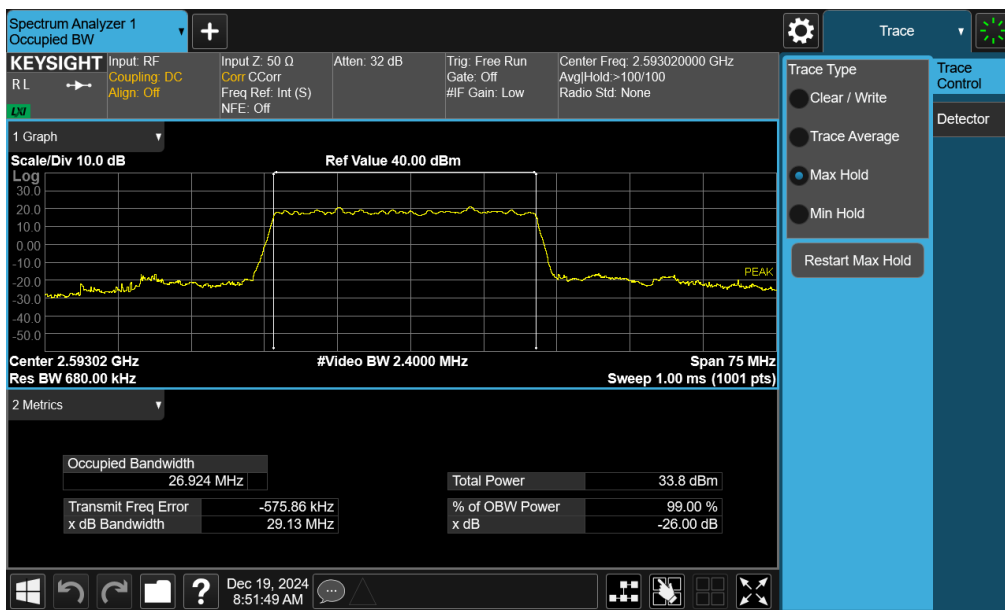


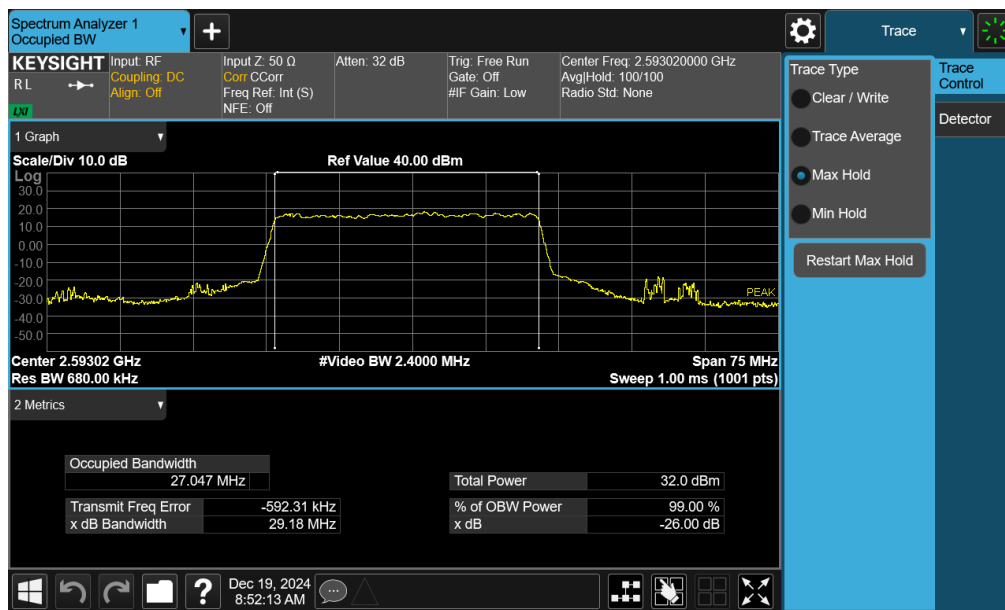
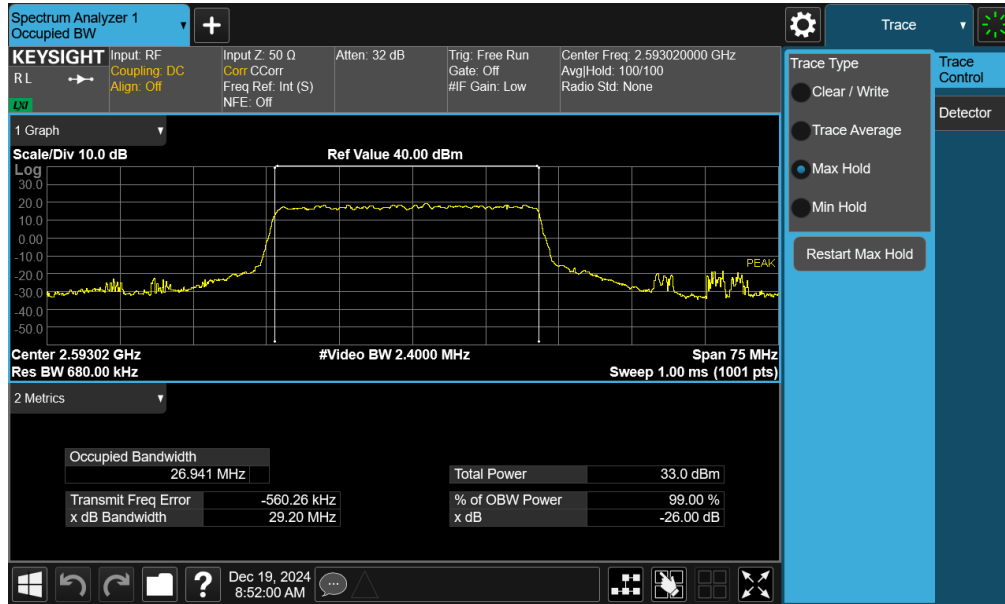


Plot 7-96. Occupied Bandwidth Plot (NR Band n41 - 40MHz 16-QAM - Full RB - Ant6)

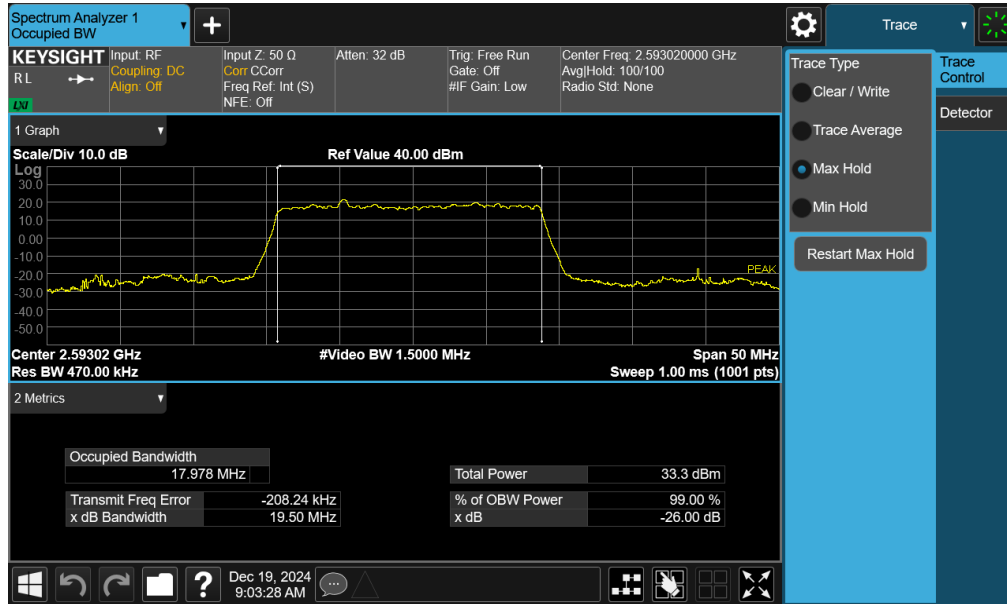


Plot 7-97. Occupied Bandwidth Plot (NR Band n41 - 30MHz  $\pi/2$  BPSK - Full RB - Ant6)

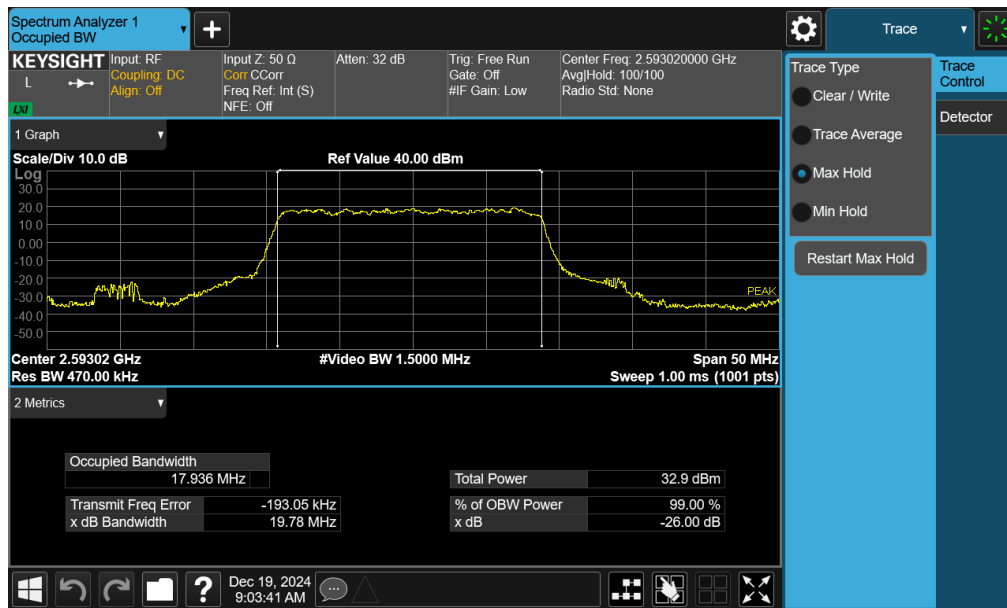
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 76 of 178                    |



|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 77 of 178                    |

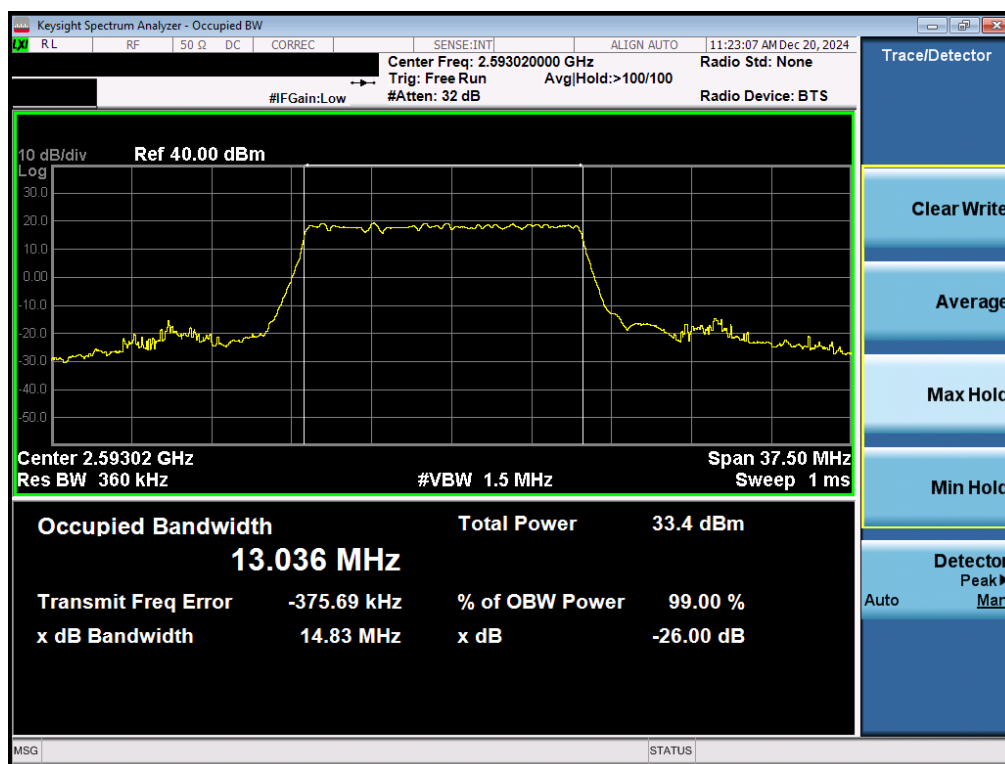
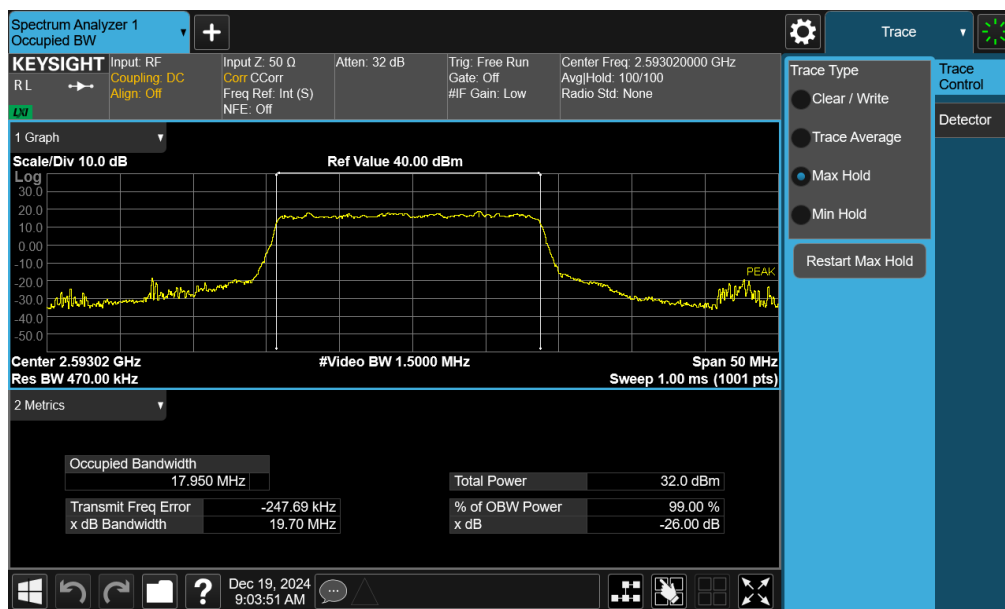


**Plot 7-100. Occupied Bandwidth Plot (NR Band n41 - 20MHz  $\pi/2$  BPSK - Full RB - Ant6)**

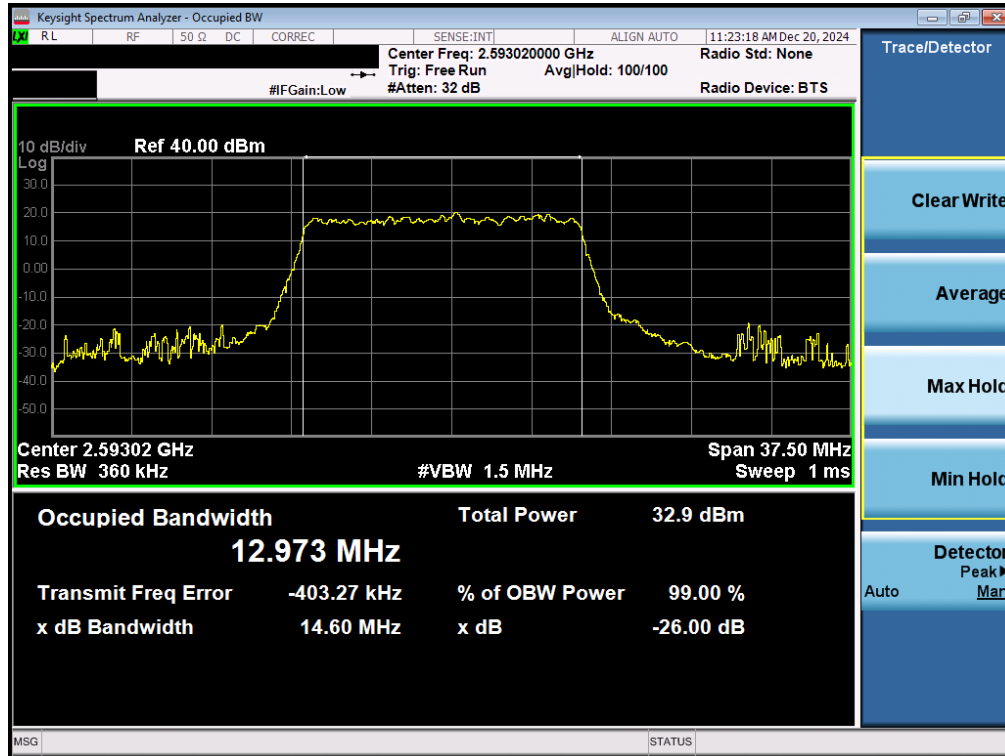


**Plot 7-101. Occupied Bandwidth Plot (NR Band n41 - 20MHz QPSK - Full RB - Ant6)**

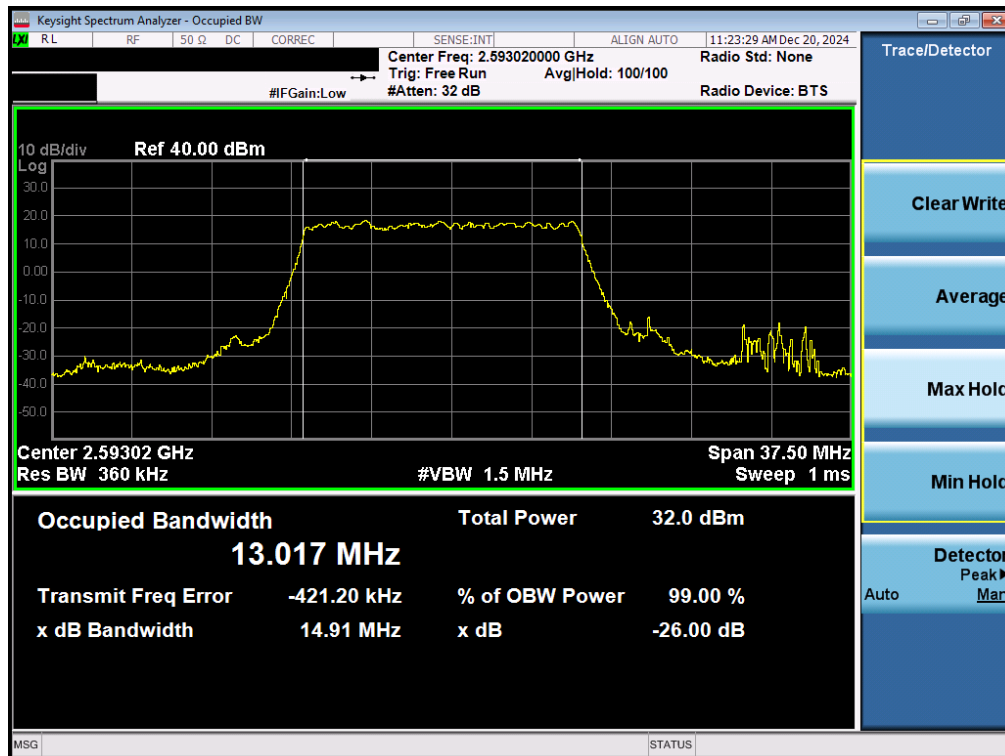
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 78 of 178                    |



|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 79 of 178                    |

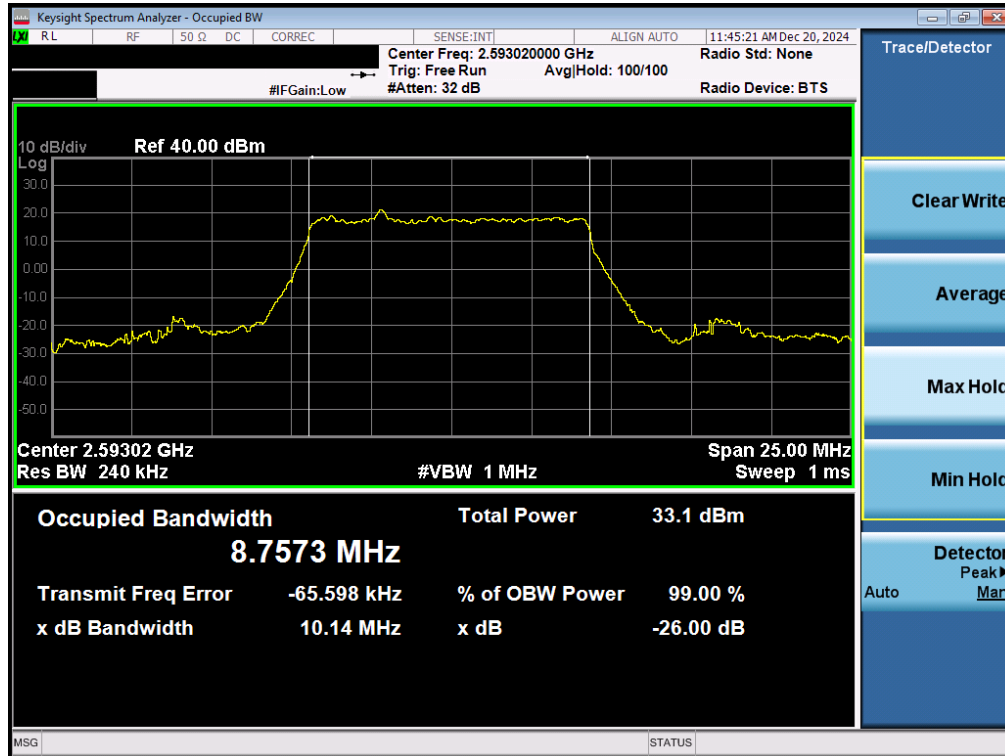


Plot 7-104. Occupied Bandwidth Plot (NR Band n41 - 15MHz QPSK - Full RB - Ant6)

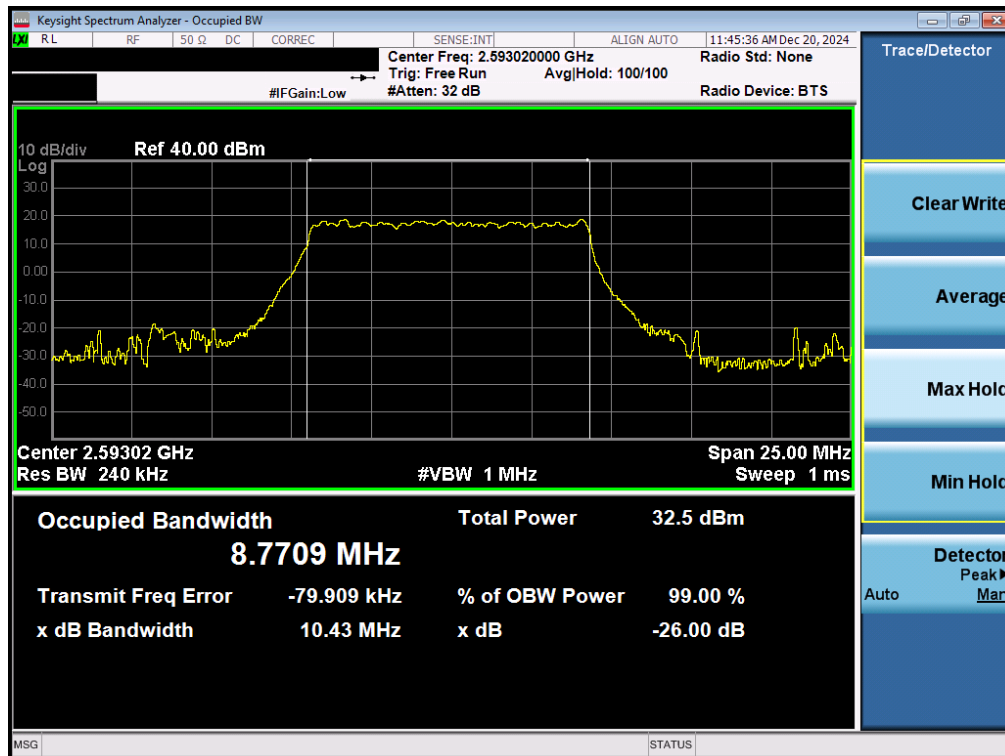


Plot 7-105. Occupied Bandwidth Plot (NR Band n41 - 15MHz 16-QAM - Full RB - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 80 of 178                    |

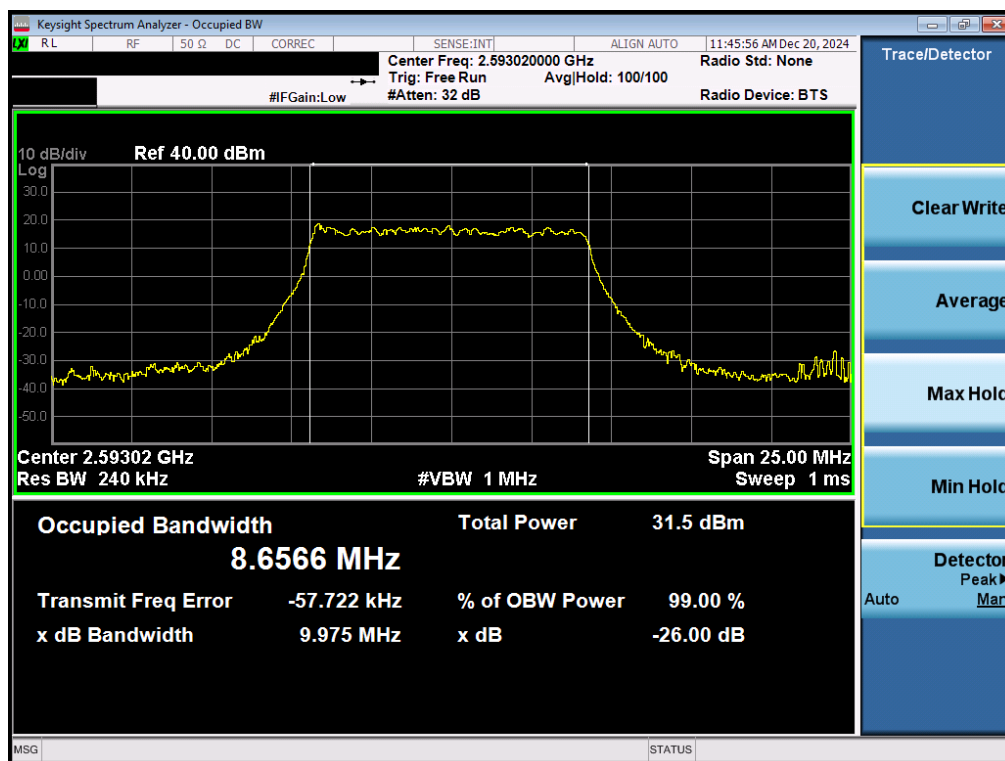


Plot 7-106. Occupied Bandwidth Plot (NR Band n41 - 10MHz  $\pi/2$  BPSK - Full RB - Ant6)



Plot 7-107. Occupied Bandwidth Plot (NR Band n41 - 10MHz QPSK - Full RB - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 81 of 178                    |



Plot 7-108. Occupied Bandwidth Plot (NR Band n41 - 10MHz 16-QAM - Full RB - Ant6)

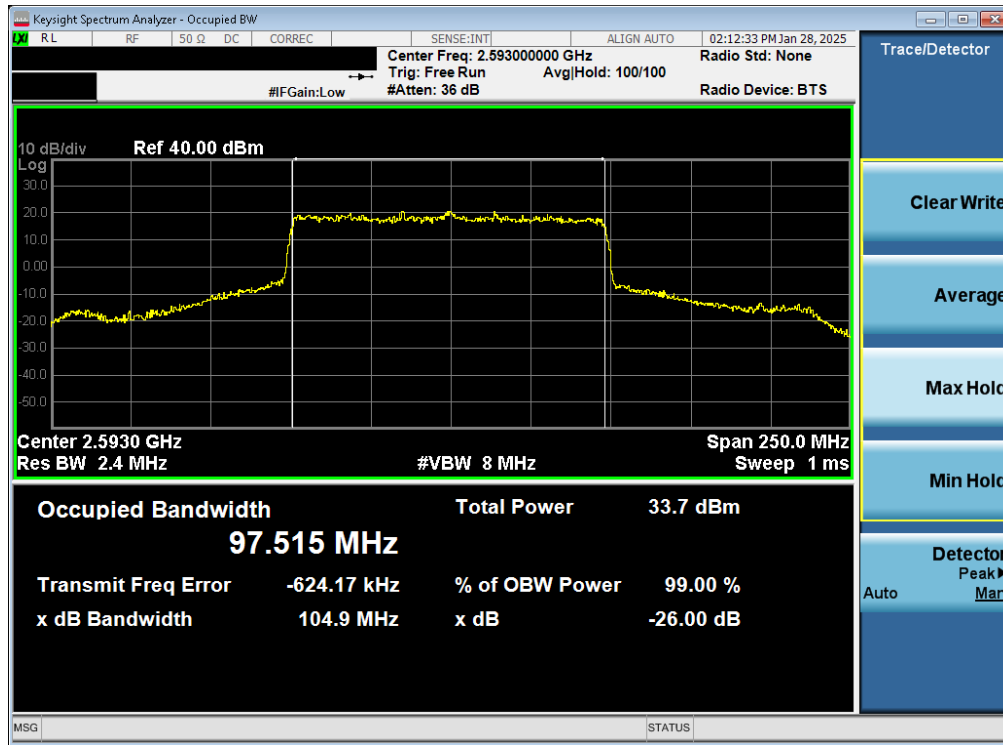
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 82 of 178                    |

| Mode        | Bandwidth | Modulation   | OBW [MHz] |
|-------------|-----------|--------------|-----------|
| NR-n41PC1.5 | 100MHz    | $\pi/2$ BPSK | 97.52     |
|             |           | QPSK         | 98.09     |
|             |           | 16QAM        | 98.17     |
|             | 90MHz     | $\pi/2$ BPSK | 87.57     |
|             |           | QPSK         | 87.81     |
|             |           | 16QAM        | 88.27     |
|             | 80MHz     | $\pi/2$ BPSK | 78.26     |
|             |           | QPSK         | 77.84     |
|             |           | 16QAM        | 77.80     |
|             | 70MHz     | $\pi/2$ BPSK | 64.94     |
|             |           | QPSK         | 67.76     |
|             |           | 16QAM        | 67.70     |
|             | 60MHz     | $\pi/2$ BPSK | 58.28     |
|             |           | QPSK         | 58.14     |
|             |           | 16QAM        | 58.04     |
|             | 50MHz     | $\pi/2$ BPSK | 45.94     |
|             |           | QPSK         | 47.73     |
|             |           | 16QAM        | 47.75     |
|             | 40MHz     | $\pi/2$ BPSK | 35.93     |
|             |           | QPSK         | 37.99     |
|             |           | 16QAM        | 37.94     |
|             | 30MHz     | $\pi/2$ BPSK | 26.97     |
|             |           | QPSK         | 28.03     |
|             |           | 16QAM        | 27.92     |
|             | 20MHz     | $\pi/2$ BPSK | 18.03     |
|             |           | QPSK         | 18.32     |
|             |           | 16QAM        | 18.32     |
|             | 15MHz     | $\pi/2$ BPSK | 13.02     |
|             |           | QPSK         | 13.68     |
|             |           | 16QAM        | 13.73     |
|             | 10MHz     | $\pi/2$ BPSK | 8.68      |
|             |           | QPSK         | 8.66      |
|             |           | 16QAM        | 8.67      |

**Table 7-20. Occupied Bandwidth Test Results – UL MIMO Ant1**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 83 of 178                    |

## NR Band n41 – UL MIMO Ant1



Plot 7-109. Occupied Bandwidth Plot (NR Band n41 - 100MHz  $\pi/2$  BPSK - Full RB – Ant1)



Plot 7-110. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 84 of 178                    |



Plot 7-111. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB - Ant1)

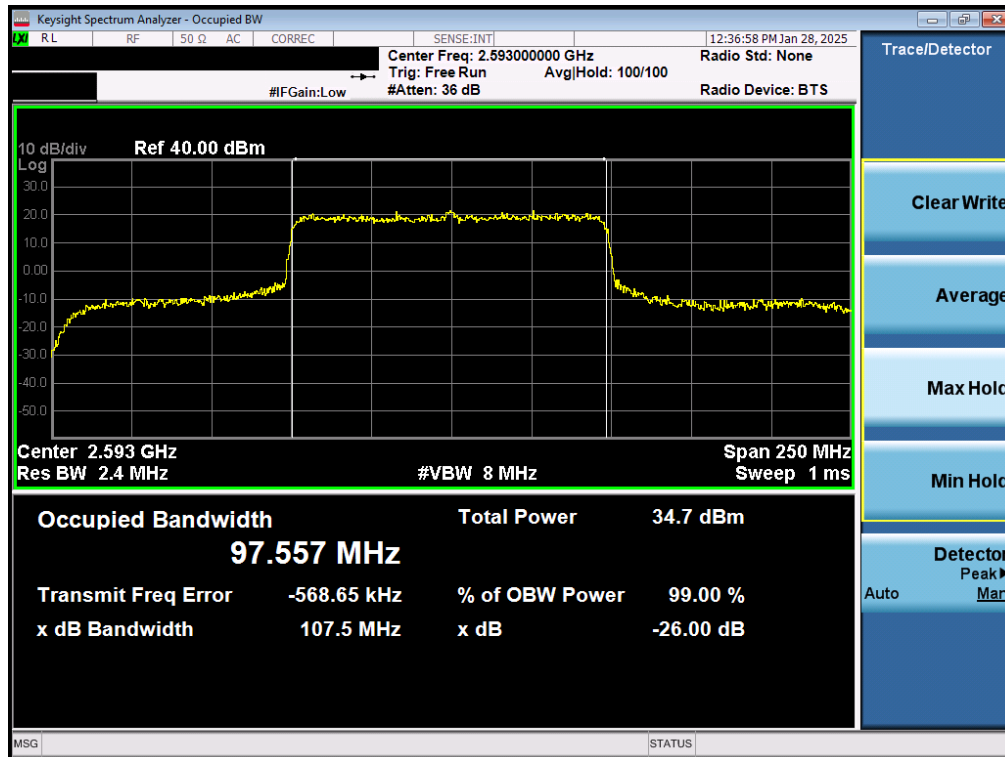
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 85 of 178                    |

| Mode      | Bandwidth | Modulation   | OBW [MHz] |
|-----------|-----------|--------------|-----------|
| NR-n41PC2 | 100MHz    | $\pi/2$ BPSK | 97.56     |
|           |           | QPSK         | 98.17     |
|           |           | 16QAM        | 98.00     |
|           | 90MHz     | $\pi/2$ BPSK | 87.57     |
|           |           | QPSK         | 88.01     |
|           |           | 16QAM        | 88.07     |
|           | 80MHz     | $\pi/2$ BPSK | 77.71     |
|           |           | QPSK         | 77.91     |
|           |           | 16QAM        | 77.88     |
|           | 70MHz     | $\pi/2$ BPSK | 64.95     |
|           |           | QPSK         | 67.81     |
|           |           | 16QAM        | 67.71     |
|           | 60MHz     | $\pi/2$ BPSK | 58.41     |
|           |           | QPSK         | 58.19     |
|           |           | 16QAM        | 58.04     |
|           | 50MHz     | $\pi/2$ BPSK | 45.93     |
|           |           | QPSK         | 47.61     |
|           |           | 16QAM        | 47.68     |
|           | 40MHz     | $\pi/2$ BPSK | 36.05     |
|           |           | QPSK         | 38.02     |
|           |           | 16QAM        | 37.99     |
|           | 30MHz     | $\pi/2$ BPSK | 27.05     |
|           |           | QPSK         | 27.92     |
|           |           | 16QAM        | 28.01     |
|           | 20MHz     | $\pi/2$ BPSK | 17.96     |
|           |           | QPSK         | 18.39     |
|           |           | 16QAM        | 18.41     |
|           | 15MHz     | $\pi/2$ BPSK | 13.06     |
|           |           | QPSK         | 13.69     |
|           |           | 16QAM        | 13.68     |
|           | 10MHz     | $\pi/2$ BPSK | 8.67      |
|           |           | QPSK         | 8.66      |
|           |           | 16QAM        | 8.67      |

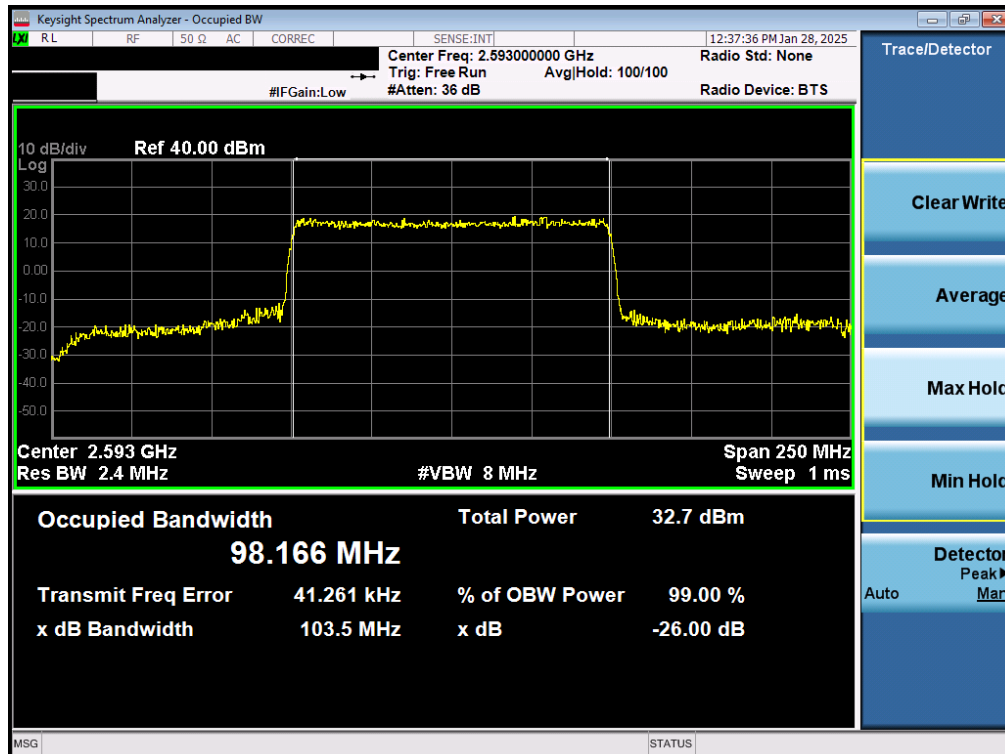
**Table 7-21. Occupied Bandwidth Test Results – UL MIMO Ant6**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 86 of 178                    |

## NR Band n41 – UL MIMO Ant6

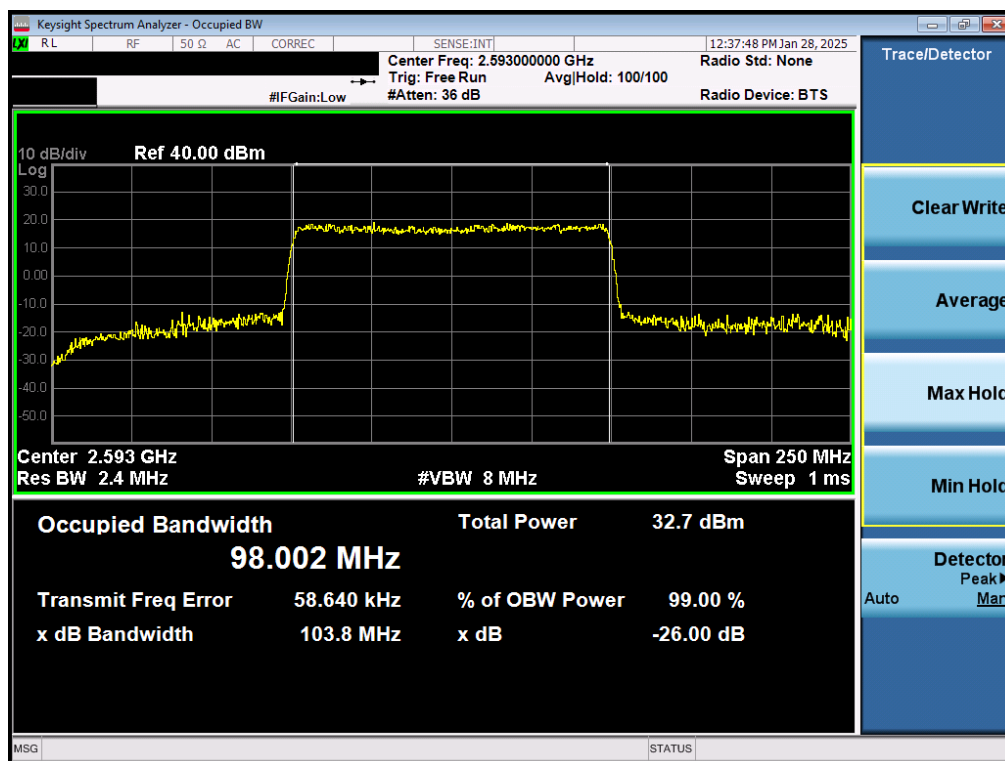


Plot 7-112. Occupied Bandwidth Plot (NR Band n41 - 100MHz  $\pi/2$  BPSK - Full RB – Ant6)



Plot 7-113. Occupied Bandwidth Plot (NR Band n41 - 100MHz QPSK - Full RB – Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 87 of 178                    |



Plot 7-114. Occupied Bandwidth Plot (NR Band n41 - 100MHz 16-QAM - Full RB – Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 88 of 178                    |

## 7.4 Spurious and Harmonic Emissions at Antenna Terminal

### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

***The minimum permissible attenuation level of any spurious emission is  $43 + 10 \log_{10}(P_{[Watts]})$ , where  $P$  is the transmitter power in Watts.***

***For Band 30, the minimum permissible attenuation level of any spurious emission <228MHz and >2365MHz is  $70 + 10 \log_{10}(P_{[Watts]})$ .***

***For Band 41, the minimum permissible attenuation level of any spurious emission is  $55 + 10 \log_{10}(P_{[Watts]})$ .***

### Test Procedure Used

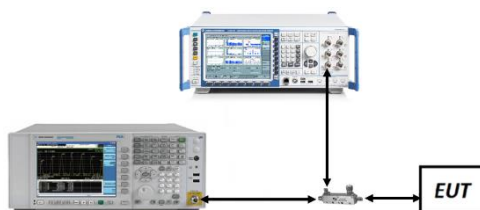
ANSI C63.26-2015 – Section 5.7.4

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 89 of 178                    |

## Test Notes

1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding  $10\log(2) = 3\text{dB}$  to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
| <b>FCC ID:</b> C3K2114                            | <b>PART 27 MEASUREMENT REPORT</b>           |                                  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2411190103-04-R3.C3K | <b>Test Dates:</b><br>12/3/2024 - 2/14/2025 | <b>EUT Type:</b><br>Full Modular | Page 90 of 178                           |

| Mode           | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B30        | 10MHz     | Mid     | 30.0 - 2288.0     | -60.14      | -40         | -20.13      |
|                |           | Mid     | 2365.0 - 15000.0  | -55.96      | -40         | -15.96      |
|                |           | Mid     | 15000.0 - 27000.0 | -54.02      | -40         | -14.01      |
| LTE-B41PC2     | 20MHz     | Low     | 30.0 - 2475.0     | -39.26      | -25         | -14.26      |
|                |           | Low     | 2690.0 - 15000.0  | -32.62      | -25         | -7.62       |
|                |           | Low     | 15000.0 - 27000.0 | -41.35      | -25         | -16.35      |
|                |           | Mid     | 30.0 - 2496.0     | -38.97      | -25         | -13.97      |
|                |           | Mid     | 2690.0 - 15000.0  | -33.10      | -25         | -8.10       |
|                |           | Mid     | 15000.0 - 27000.0 | -41.37      | -25         | -16.37      |
|                |           | High    | 30.0 - 2496.0     | -37.63      | -25         | -12.63      |
|                |           | High    | 2715.0 - 15000.0  | -32.42      | -25         | -7.42       |
|                |           | High    | 15000.0 - 27000.0 | -41.23      | -25         | -16.23      |
| LTE-B41/38 PC3 | 20MHz     | Low     | 30.0 - 2475.0     | -43.37      | -25         | -18.37      |
|                |           | Low     | 2690.0 - 15000.0  | -36.71      | -25         | -11.71      |
|                |           | Low     | 15000.0 - 27000.0 | -49.80      | -25         | -24.80      |
|                |           | Mid     | 30.0 - 2288.0     | -43.39      | -25         | -18.39      |
|                |           | Mid     | 2570.0 - 15000.0  | -37.08      | -25         | -12.08      |
|                |           | Mid     | 15000.0 - 27000.0 | -50.53      | -25         | -25.53      |
|                |           | High    | 30.0 - 2288.0     | -43.89      | -25         | -18.89      |
|                |           | High    | 2570.0 - 15000.0  | -37.21      | -25         | -12.21      |
|                |           | High    | 15000.0 - 27000.0 | -51.06      | -25         | -26.06      |

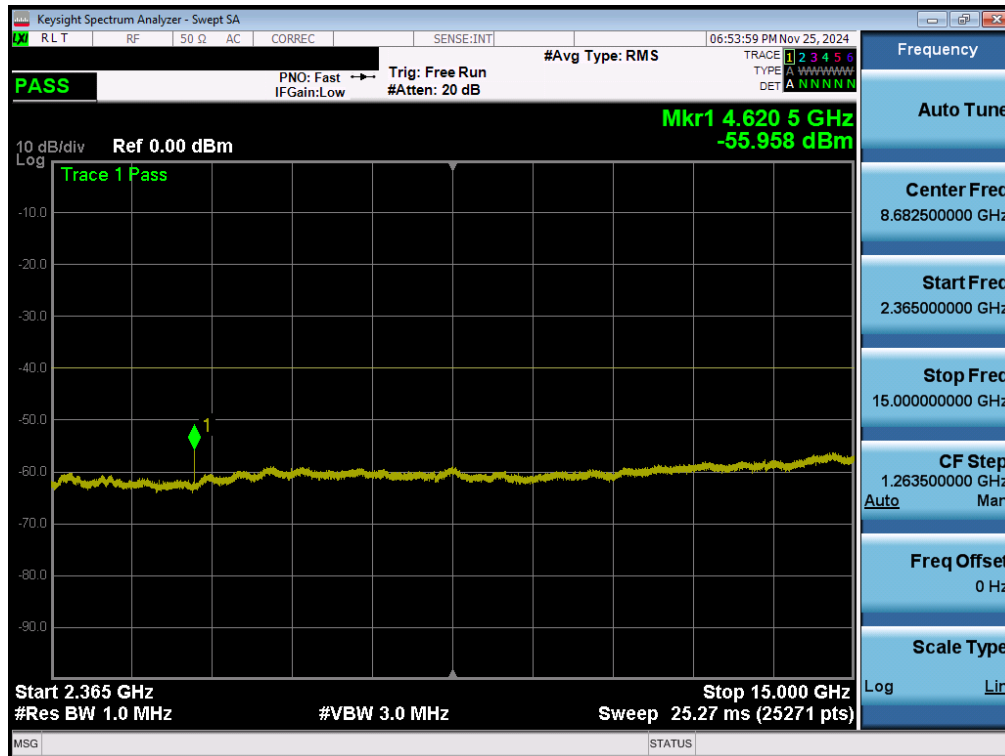
**Table 7-22. Conducted Spurious Emission Test Results – Ant1**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 91 of 178                    |

## LTE Band 30 – Ant1



Plot 7-115. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 25 - Ant1)



Plot 7-116. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 25 - Ant1)

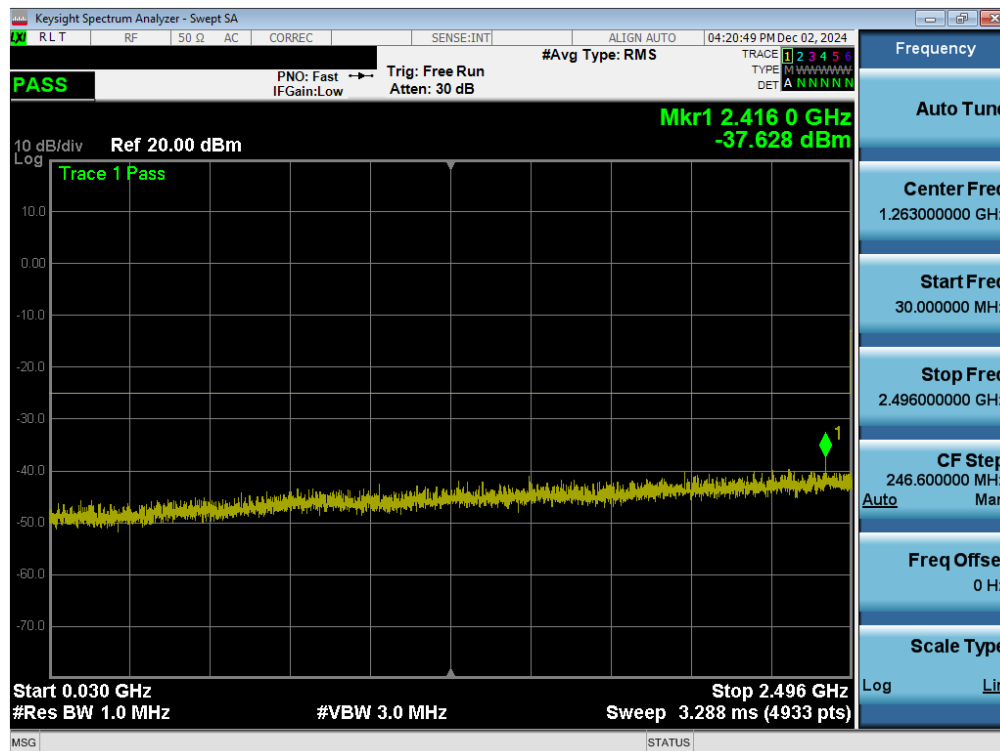
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 92 of 178                    |



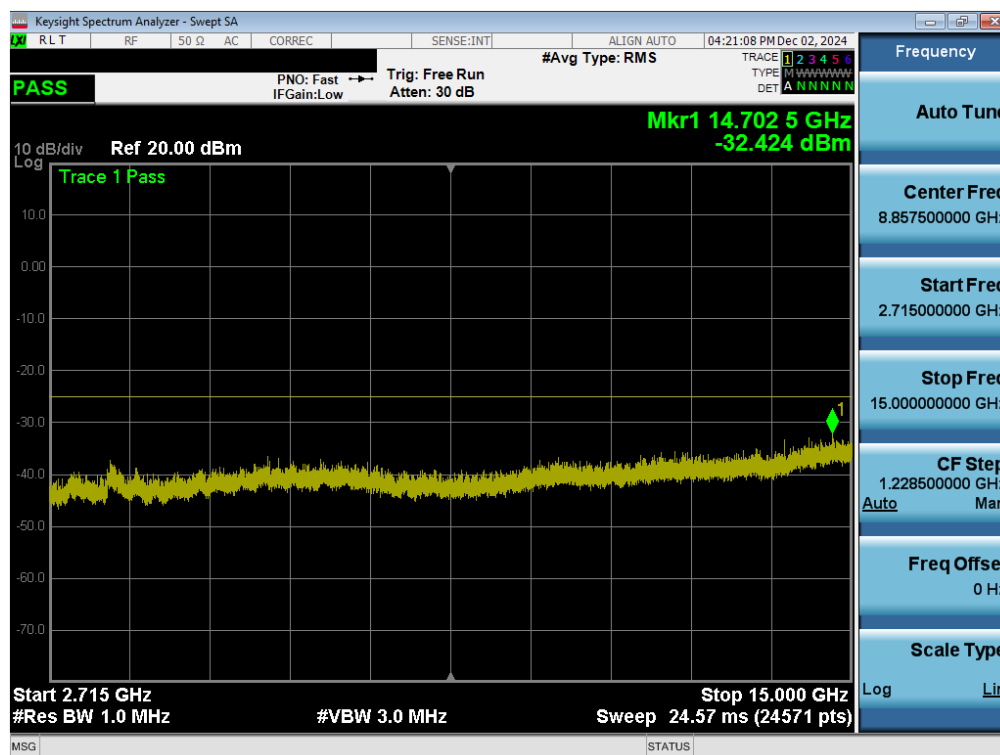
Plot 7-117. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 25 - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 93 of 178                    |

## LTE Band 41(PC2) – Ant1



Plot 7-118. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant1)

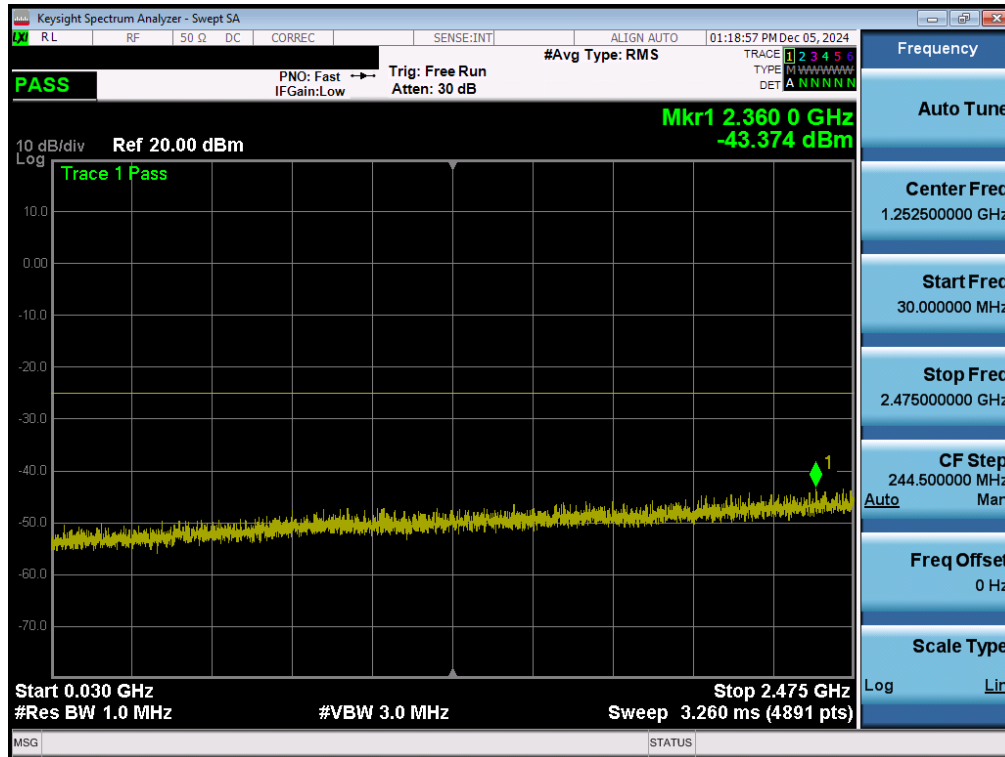


Plot 7-119. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant1)

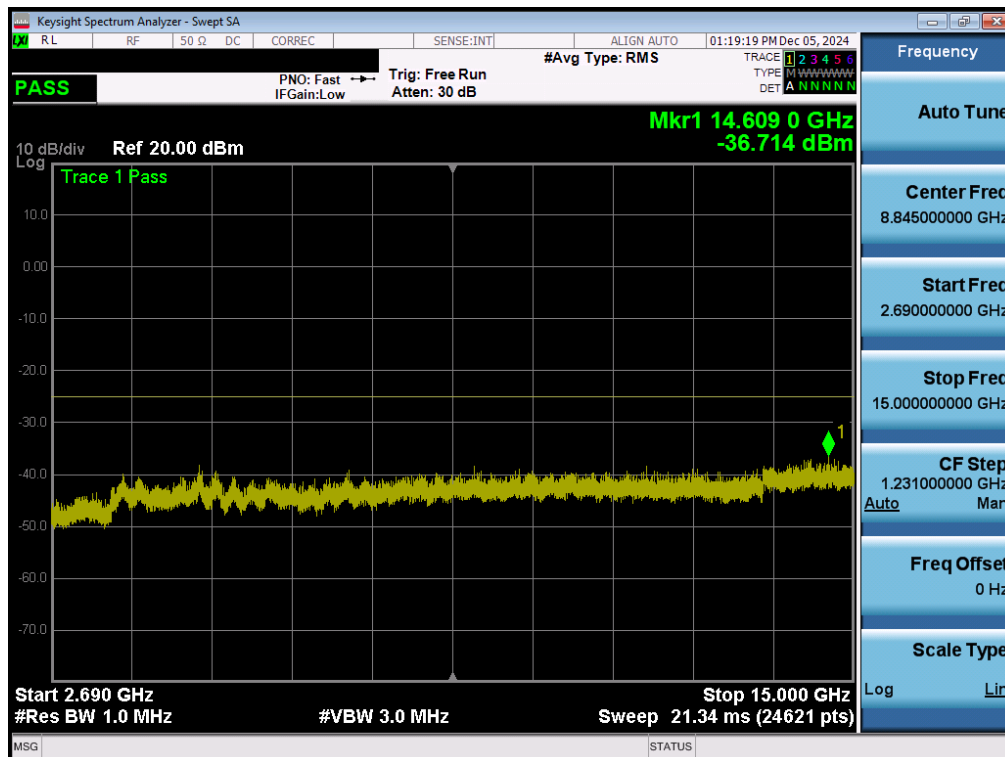
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 94 of 178                    |



## LTE Band 41(PC3)/38 – Ant1

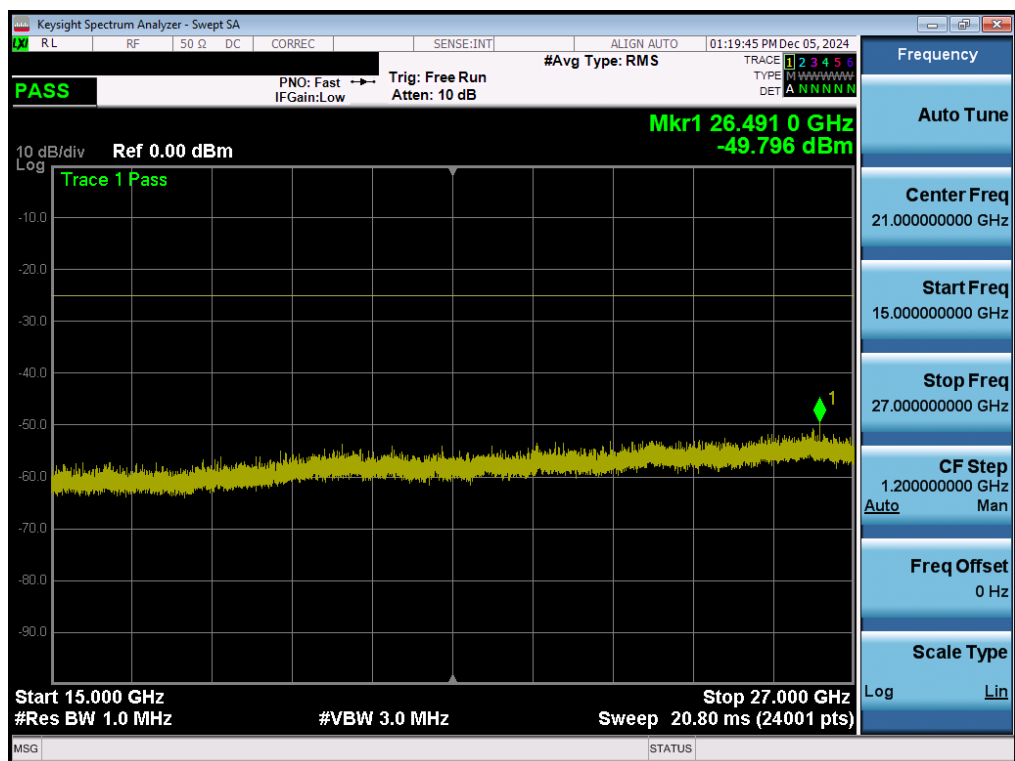


Plot 7-121. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel - Ant1)



Plot 7-122. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 96 of 178                    |



Plot 7-123. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 97 of 178                    |

| Mode      | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n30    | 10MHz     | Mid     | 30.0 - 2288.0     | -52.20      | -40         | -12.20      |
|           |           | Mid     | 2365.0 - 15000.0  | -51.08      | -40         | -11.08      |
|           |           | Mid     | 15000.0 - 27000.0 | -56.69      | -40         | -16.69      |
| NR-n41PC2 | 100MHz    | Low     | 30.0 - 2470.0     | -37.43      | -25         | -12.43      |
|           |           | Low     | 2690.0 - 15000.0  | -32.44      | -25         | -7.44       |
|           |           | Low     | 15000.0 - 27000.0 | -46.35      | -25         | -21.35      |
|           |           | Mid     | 30.0 - 2470.0     | -34.73      | -25         | -9.73       |
|           |           | Mid     | 2690.0 - 15000.0  | -33.11      | -25         | -8.11       |
|           |           | Mid     | 15000.0 - 27000.0 | -46.52      | -25         | -21.52      |
|           |           | High    | 30.0 - 2470.0     | -37.02      | -25         | -12.02      |
|           |           | High    | 2690.0 - 15000.0  | -32.60      | -25         | -7.60       |
|           |           | High    | 15000.0 - 27000.0 | -45.97      | -25         | -20.97      |
| NR-n41PC3 | 100MHz    | Low     | 30.0 - 2288.0     | -39.70      | -25         | -14.70      |
|           |           | Low     | 2365.0 - 15000.0  | -34.19      | -25         | -9.19       |
|           |           | Low     | 15000.0 - 27000.0 | -48.43      | -25         | -23.43      |
|           |           | Mid     | 30.0 - 2288.0     | -39.60      | -25         | -14.60      |
|           |           | Mid     | 2570.0 - 15000.0  | -34.50      | -25         | -9.50       |
|           |           | Mid     | 15000.0 - 27000.0 | -48.17      | -25         | -23.17      |
|           |           | High    | 30.0 - 2496.0     | -40.20      | -25         | -15.20      |
|           |           | High    | 2715.0 - 15000.0  | -33.62      | -25         | -8.62       |
|           |           | High    | 15000.0 - 27000.0 | -48.05      | -25         | -23.05      |

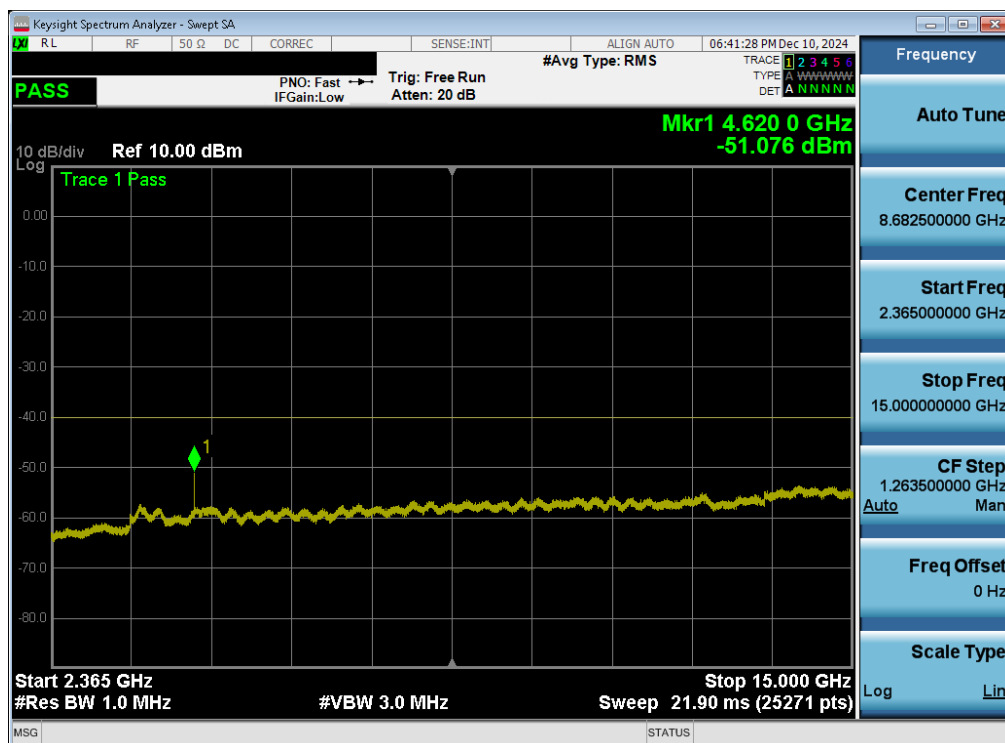
**Table 7-23. Conducted Spurious Emission Test Results – Ant1**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 98 of 178                    |

## NR Band n30 – Ant1

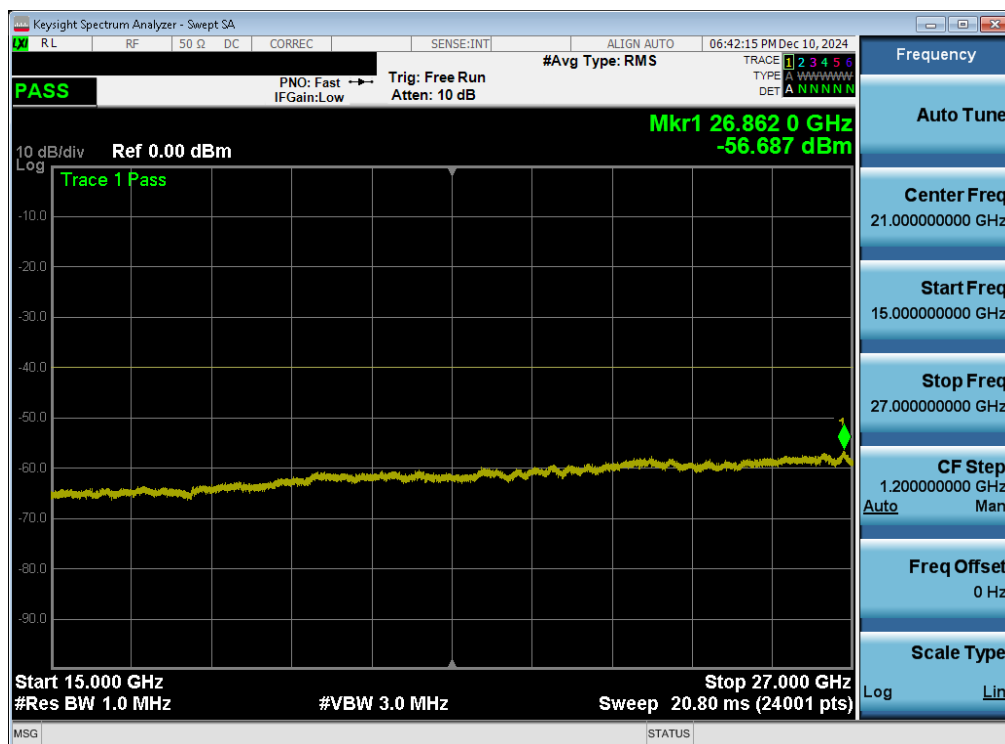


Plot 7-124. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 25 – Ant1)



Plot 7-125. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 25 – Ant1)

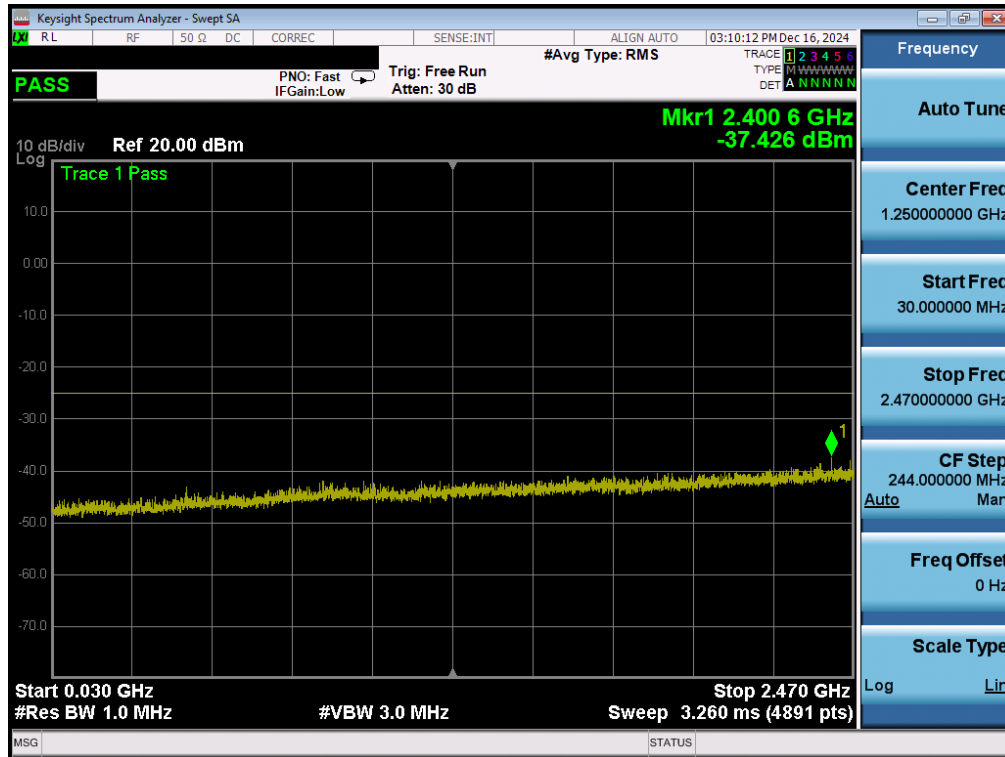
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 99 of 178                    |



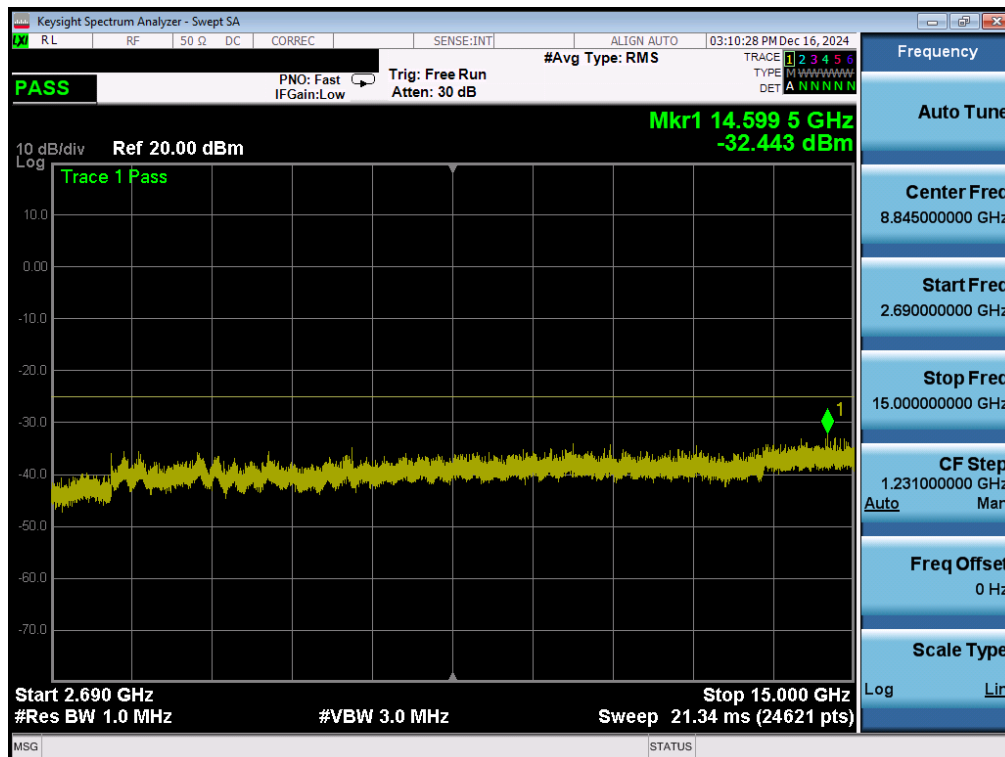
Plot 7-126. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 25 – Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 100 of 178                   |

## NR Band n41(PC2) – Ant1

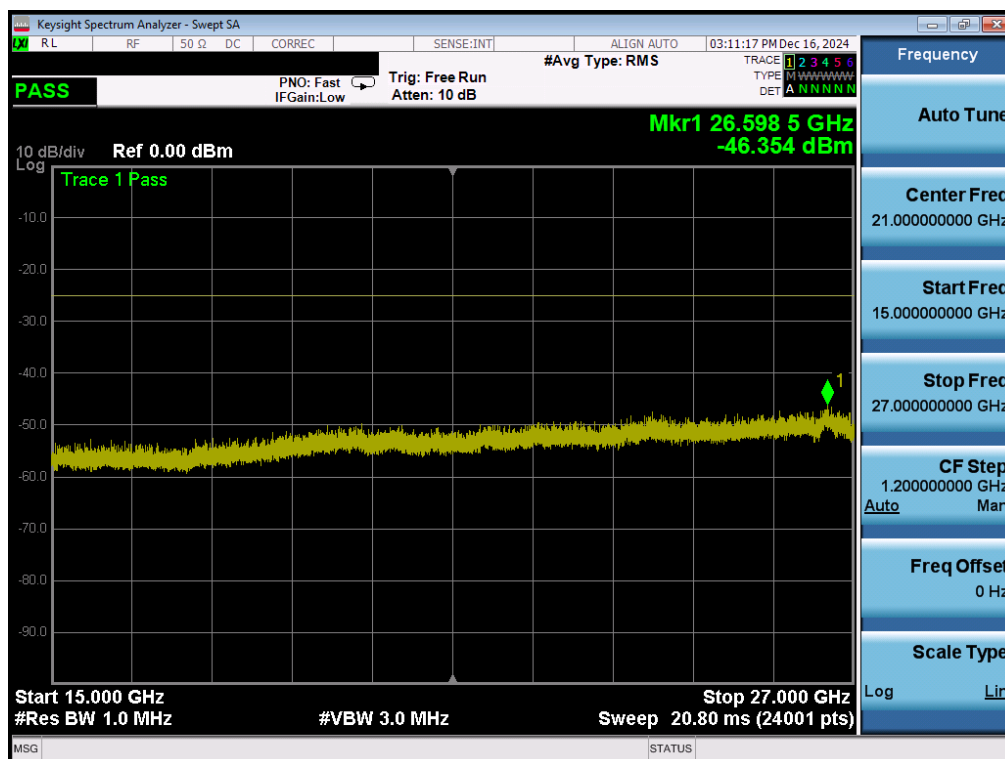


Plot 7-127. Conducted Spurious Plot (NR Band n41(PC2) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant1)



Plot 7-128. Conducted Spurious Plot (NR Band n41(PC2) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant1)

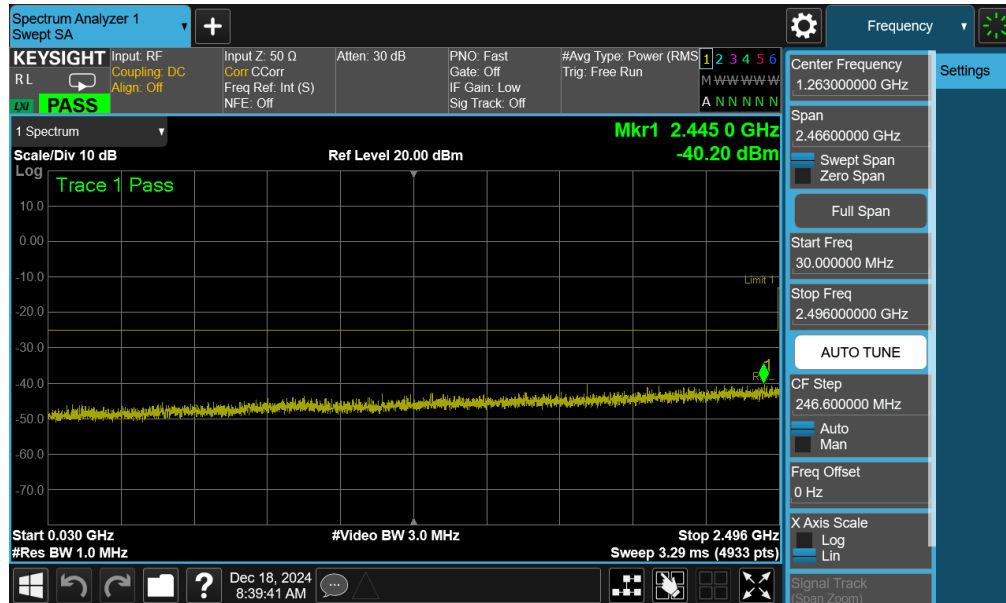
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 101 of 178                   |



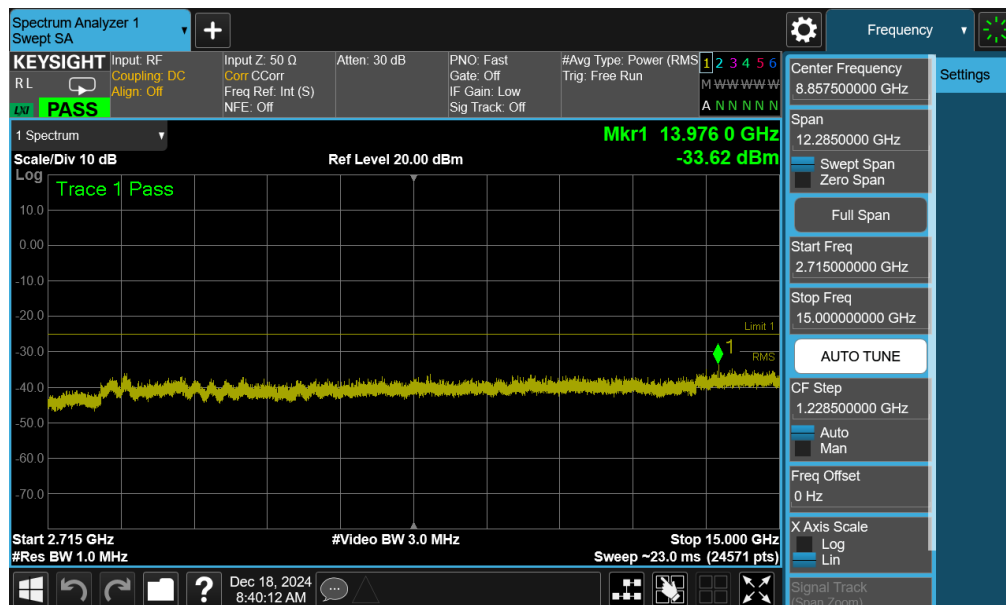
Plot 7-129. Conducted Spurious Plot (NR Band n41(PC2) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 102 of 178                   |

## NR Band n41(PC3) – Ant1

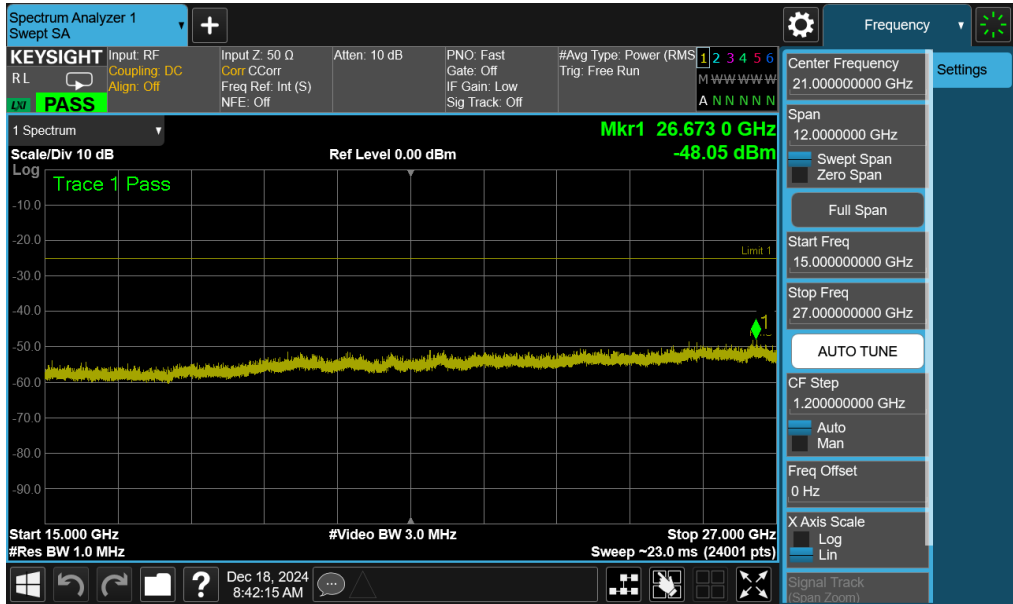


Plot 7-130. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - High Channel - Ant1)



Plot 7-131. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - High Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 103 of 178                   |



Plot 7-132. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - High Channel - Ant1)

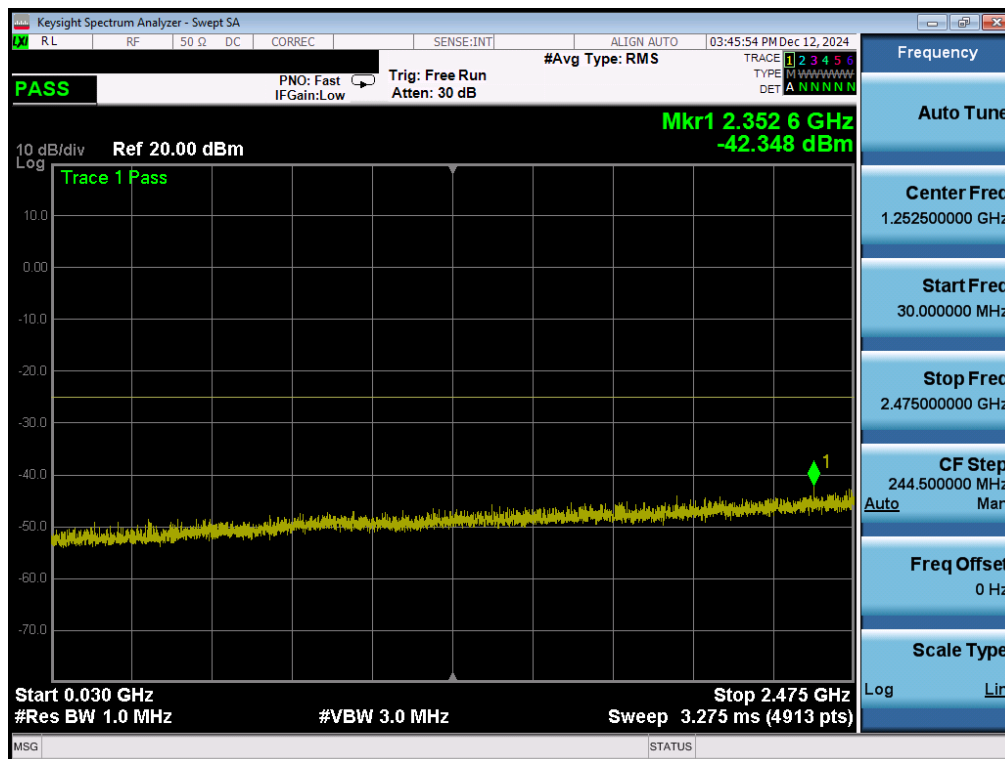
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 104 of 178                   |

| Mode       | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B41PC3 | 20+20MHz  | Low     | 30.0 - 2475.0     | -42.35      | -25         | -17.35      |
|            |           | Low     | 2496.0 - 2690.0   | 16.49       | -           | -           |
|            |           | Low     | 2690.0 - 15000.0  | -36.28      | -25         | -11.28      |
|            |           | Low     | 15000.0 - 27000.0 | -50.99      | -25         | -25.99      |
|            |           | Mid     | 30.0 - 2496.0     | -43.36      | -25         | -18.36      |
|            |           | Mid     | 2496.0 - 2690.0   | 16.60       | -           | -           |
|            |           | Mid     | 2690.0 - 15000.0  | -36.46      | -25         | -11.46      |
|            |           | Mid     | 15000.0 - 27000.0 | -50.88      | -25         | -25.88      |
|            |           | High    | 30.0 - 2496.0     | -42.81      | -25         | -17.81      |
|            |           | High    | 2496.0 - 2690.0   | 15.84       | -           | -           |
|            |           | High    | 2690.0 - 15000.0  | -37.33      | -25         | -12.33      |
|            |           | High    | 15000.0 - 27000.0 | -50.41      | -25         | -25.41      |

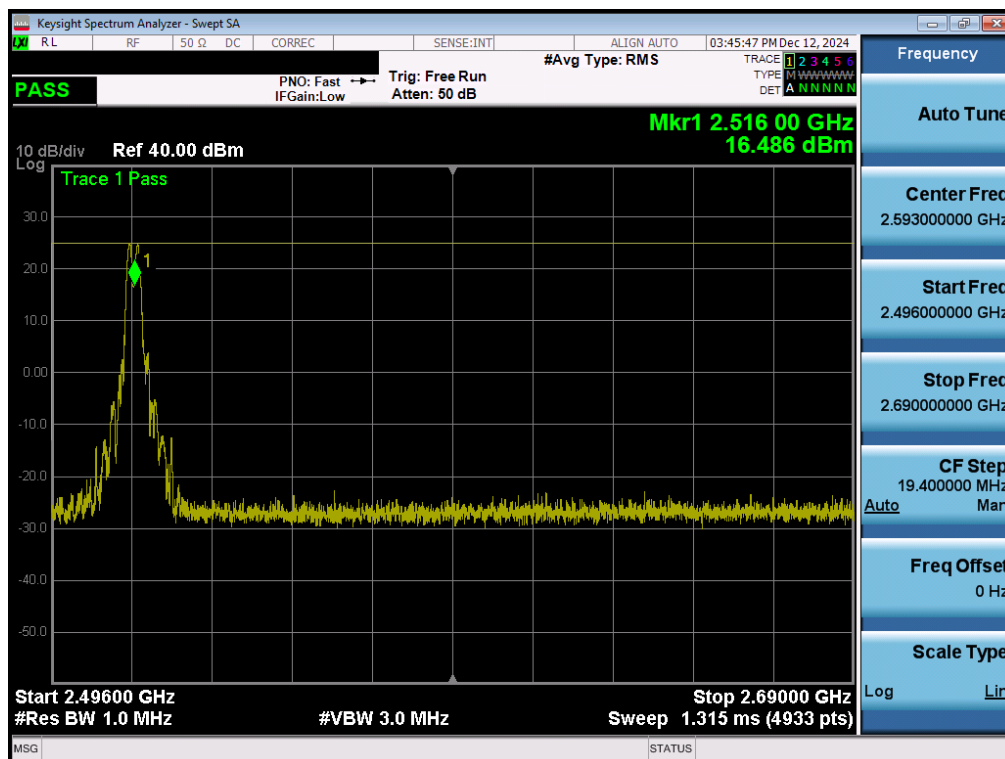
**Table 7-24. Conducted Spurious Emission Test Results – Ant1**

|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
| <b>FCC ID:</b> C3K2114                            | <b>PART 27 MEASUREMENT REPORT</b>           |                                  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2411190103-04-R3.C3K | <b>Test Dates:</b><br>12/3/2024 - 2/14/2025 | <b>EUT Type:</b><br>Full Modular | Page 105 of 178                          |

## ULCA - LTE B41(PC3) – Ant1

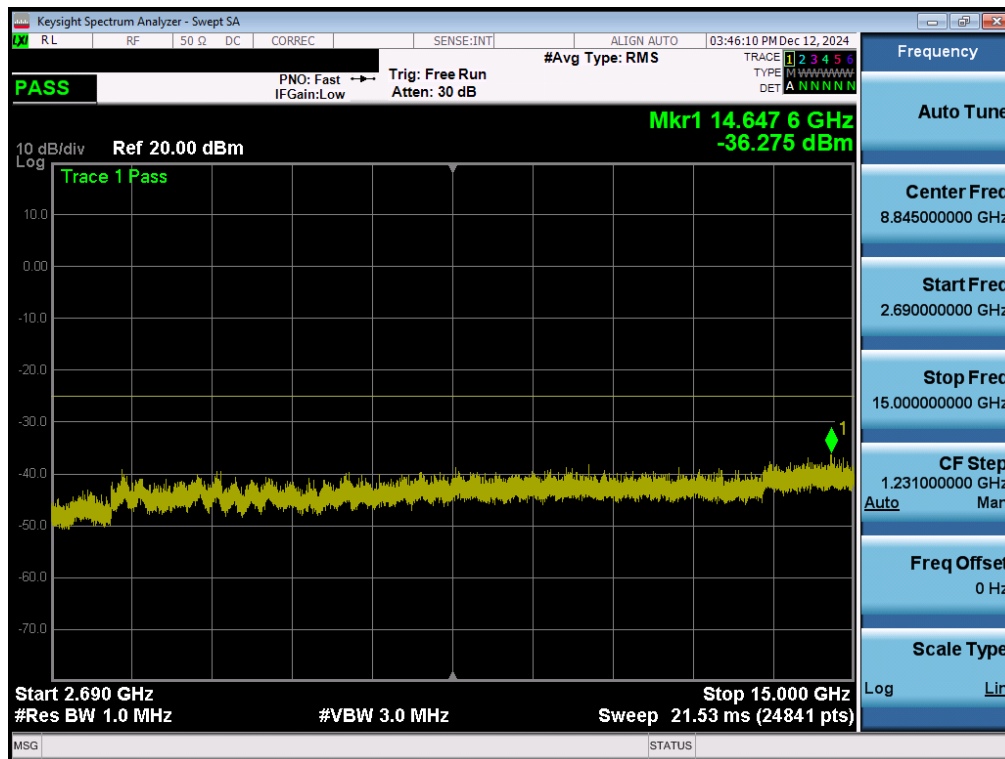


Plot 7-133. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

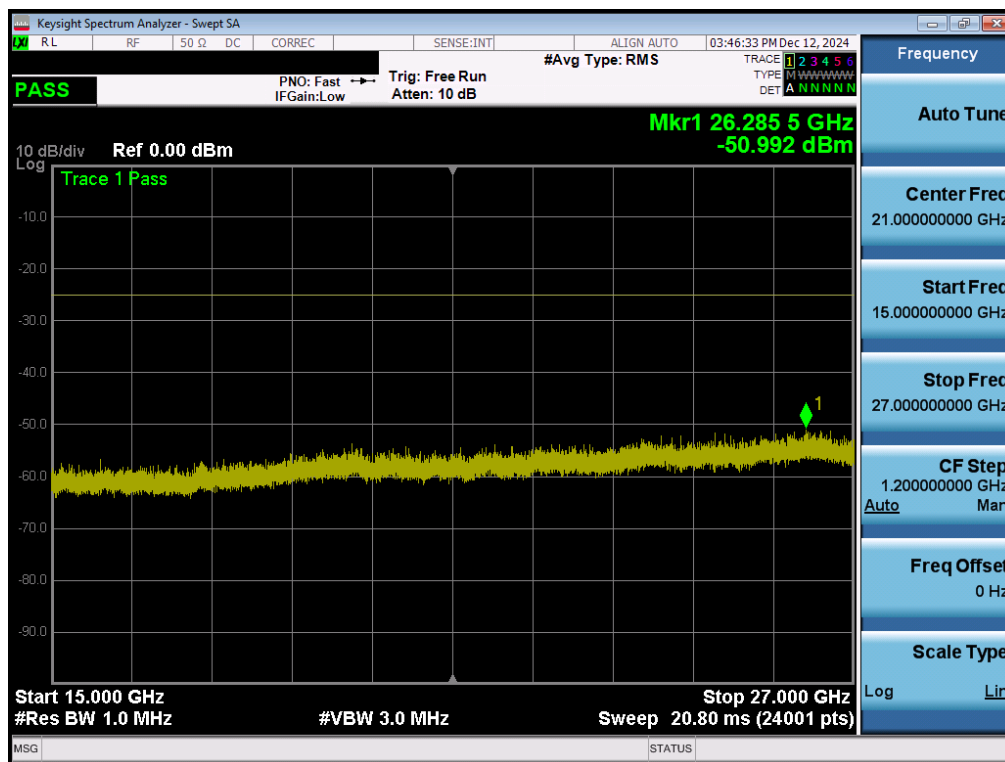


Plot 7-134. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 106 of 178                   |



Plot 7-135. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)



Plot 7-136. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 107 of 178                   |

| Mode           | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B41PC2     | 20MHz     | Low     | 30.0 - 2475.0     | -42.42      | -25.0       | -17.42      |
|                |           | Low     | 2690.0 - 15000.0  | -34.18      | -25.0       | -9.18       |
|                |           | Low     | 15000.0 - 27000.0 | -44.22      | -25         | -19.22      |
|                |           | Mid     | 30.0 - 2500.0     | -42.49      | -25         | -17.49      |
|                |           | Mid     | 2690.0 - 15000.0  | -34.00      | -25         | -9.00       |
|                |           | Mid     | 15000.0 - 27000.0 | -43.66      | -25         | -18.66      |
|                |           | High    | 30.0 - 2496.0     | -42.38      | -25         | -17.38      |
|                |           | High    | 2715.0 - 15000.0  | -33.85      | -25         | -8.85       |
|                |           | High    | 15000.0 - 27000.0 | -44.10      | -25         | -19.10      |
| LTE-B41/38 PC3 | 20MHz     | Low     | 30.0 - 2288.0     | -42.67      | -25         | -17.67      |
|                |           | Low     | 2365.0 - 15000.0  | -33.85      | -25         | -8.85       |
|                |           | Low     | 15000.0 - 27000.0 | -43.36      | -25         | -18.36      |
|                |           | Mid     | 30.0 - 2288.0     | -42.38      | -25         | -17.38      |
|                |           | Mid     | 2570.0 - 15000.0  | -34.47      | -25         | -9.47       |
|                |           | Mid     | 15000.0 - 27000.0 | -43.59      | -25         | -18.58      |
|                |           | High    | 30.0 - 2496.0     | -42.61      | -25         | -17.60      |
|                |           | High    | 2715.0 - 15000.0  | -33.45      | -25         | -8.44       |
|                |           | High    | 15000.0 - 27000.0 | -43.11      | -25         | -18.11      |

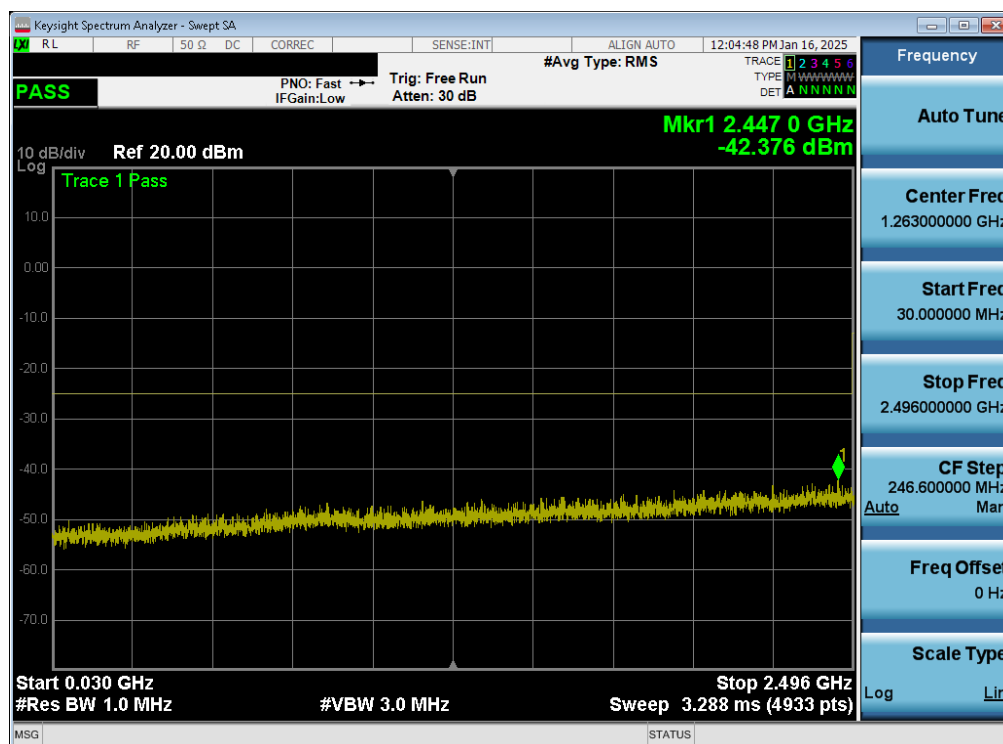
Table 7-25. Conducted Spurious Emission Test Results – Ant6

| Mode      | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n41PC2 | 100MHz    | Low     | 30.0 - 2470.0     | -39.59      | -25         | -14.6       |
|           |           | Low     | 2690.0 - 15000.0  | -34.68      | -25         | -9.7        |
|           |           | Low     | 15000.0 - 27000.0 | -48.94      | -25         | -23.9       |
|           |           | Mid     | 30.0 - 2470.0     | -39.16      | -25         | -14.2       |
|           |           | Mid     | 2690.0 - 15000.0  | -34.82      | -25         | -9.8        |
|           |           | Mid     | 15000.0 - 27000.0 | -49.17      | -25         | -24.2       |
|           |           | High    | 30.0 - 2470.0     | -39.86      | -25         | -14.9       |
|           |           | High    | 2715.0 - 15000.0  | -34.57      | -25         | -9.6        |
|           |           | High    | 15000.0 - 27000.0 | -49.21      | -25         | -24.2       |
| NR-n41PC3 | 100MHz    | Low     | 30.0 - 2470.0     | -39.62      | -25         | -14.6       |
|           |           | Low     | 2690.0 - 15000.0  | -32.64      | -25         | -7.6        |
|           |           | Low     | 15000.0 - 27000.0 | -45.61      | -25         | -20.6       |
|           |           | Mid     | 30.0 - 2288.0     | -39.83      | -25         | -14.8       |
|           |           | Mid     | 2570.0 - 15000.0  | -33.26      | -25         | -8.3        |
|           |           | Mid     | 15000.0 - 27000.0 | -46.04      | -25         | -21.0       |
|           |           | High    | 30.0 - 2288.0     | -38.43      | -25         | -13.4       |
|           |           | High    | 2570.0 - 15000.0  | -32.69      | -25         | -7.7        |
|           |           | High    | 15000.0 - 27000.0 | -43.98      | -25         | -19.0       |

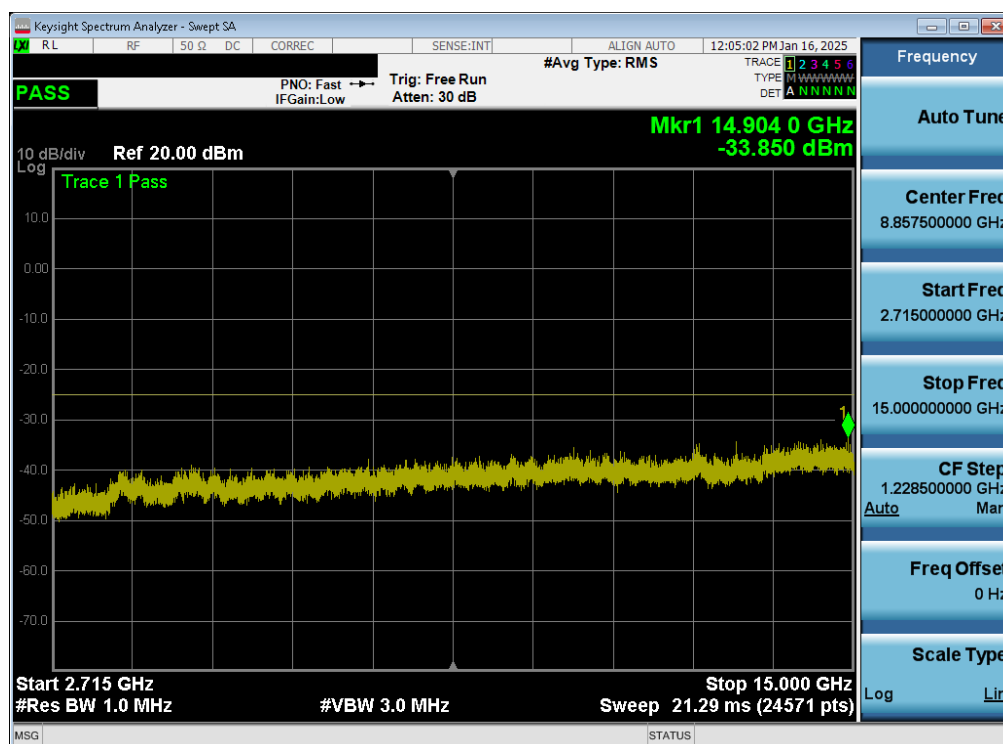
Table 7-26. Conducted Spurious Emission Test Results – Ant6

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 108 of 178                   |

## LTE Band 41(PC2) – Ant6

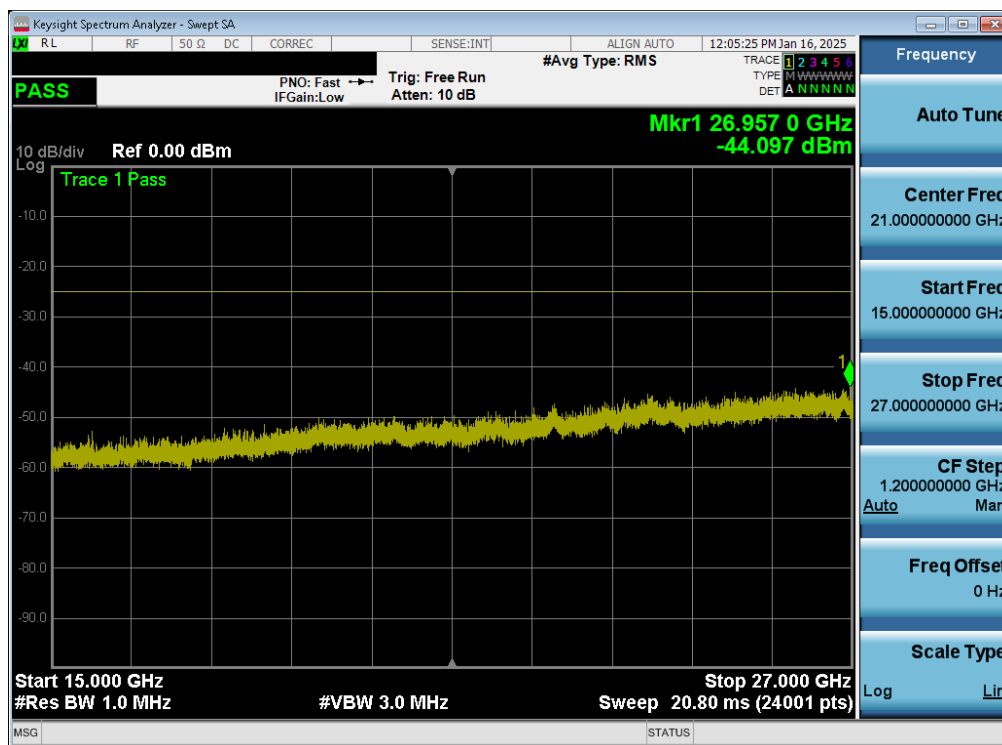


Plot 7-137. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant6)



Plot 7-138. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant6)

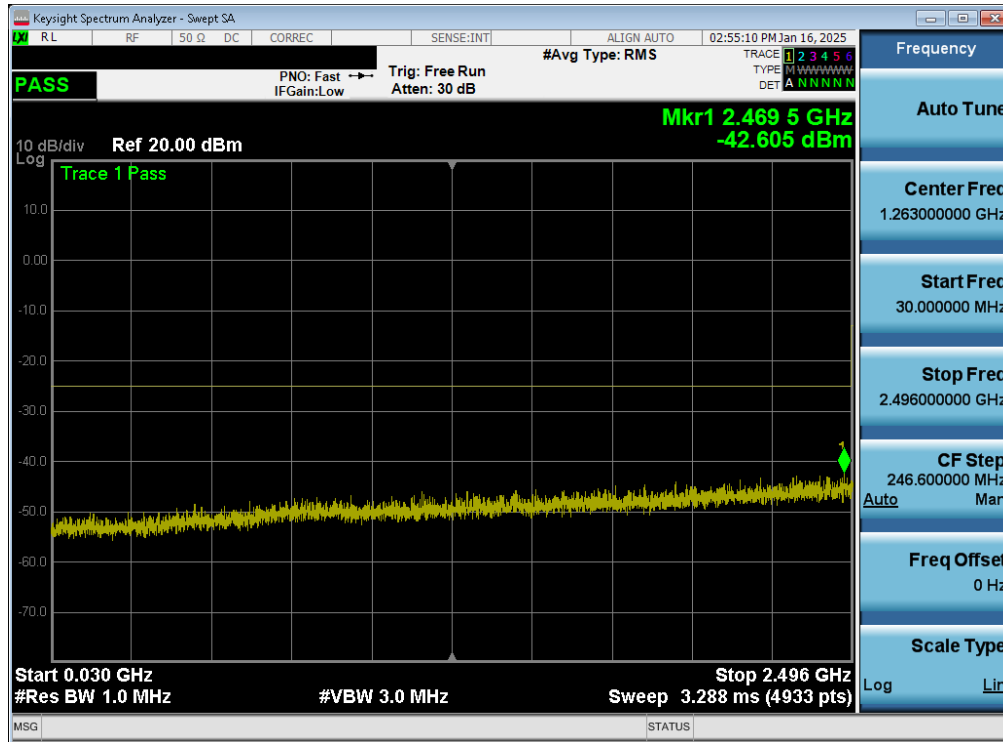
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 109 of 178                   |



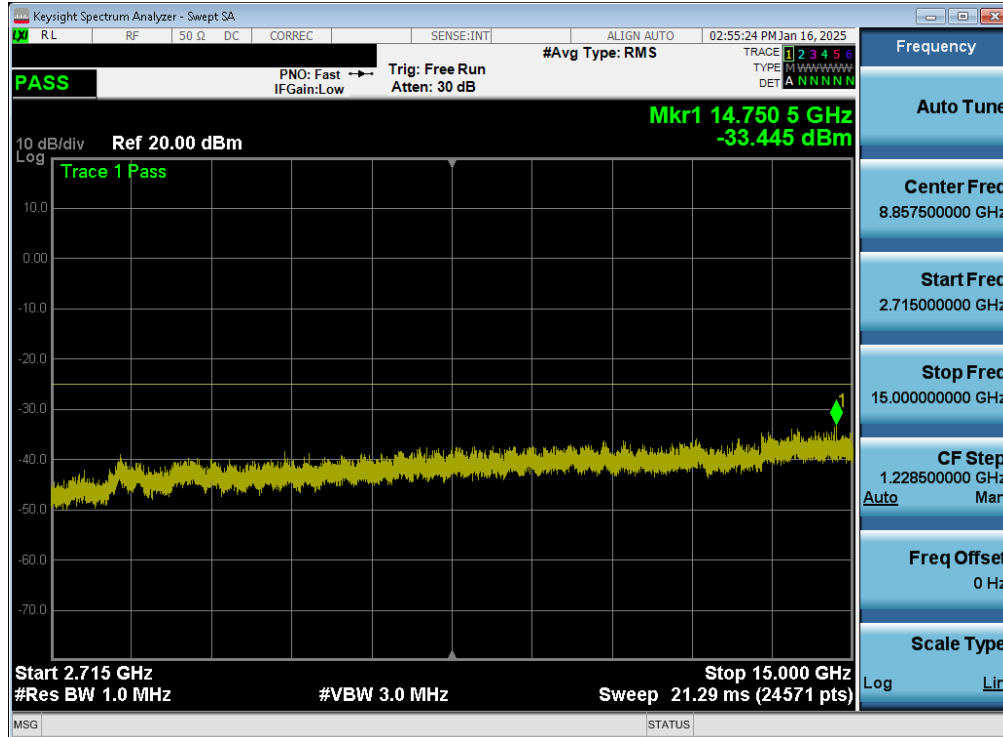
Plot 7-139. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 110 of 178                   |

## LTE Band 41(PC3)/38 – Ant6

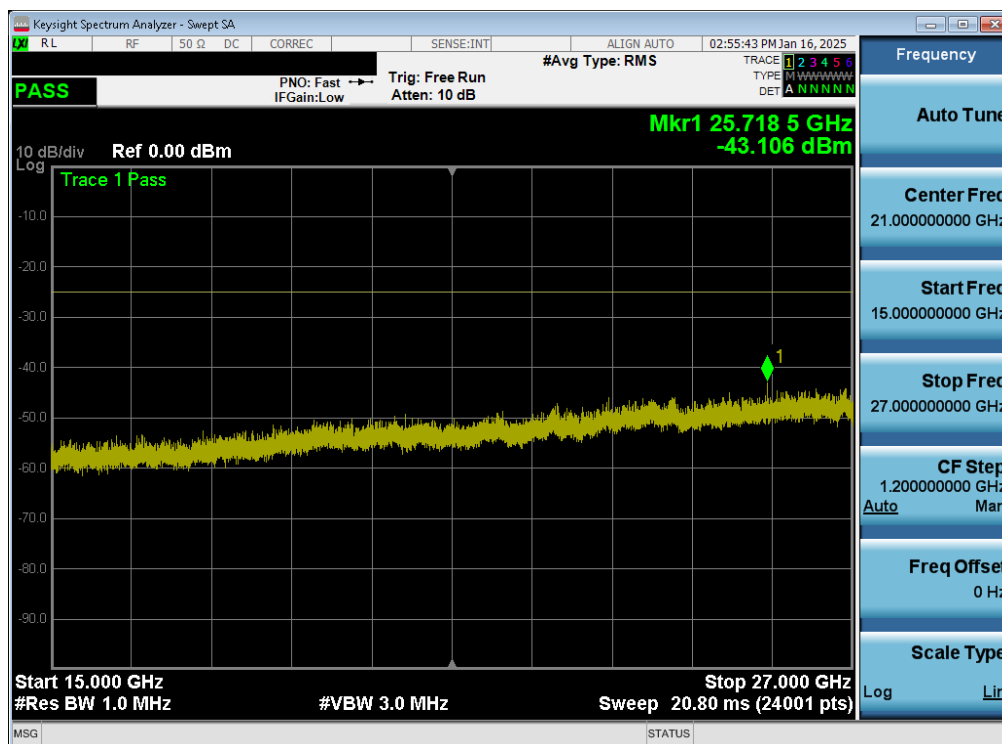


Plot 7-140. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant6)



Plot 7-141. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant6)

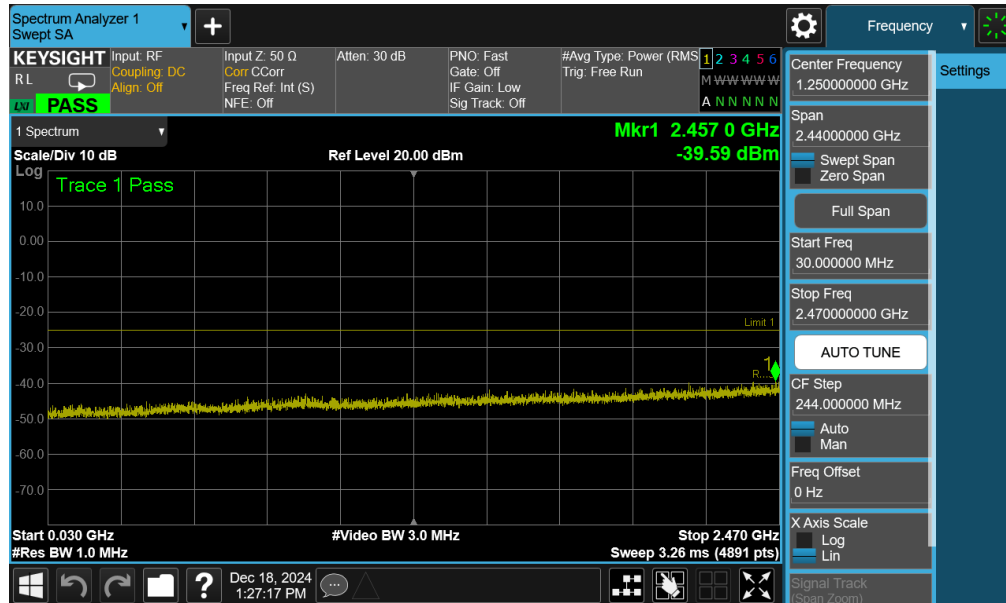
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 111 of 178                   |



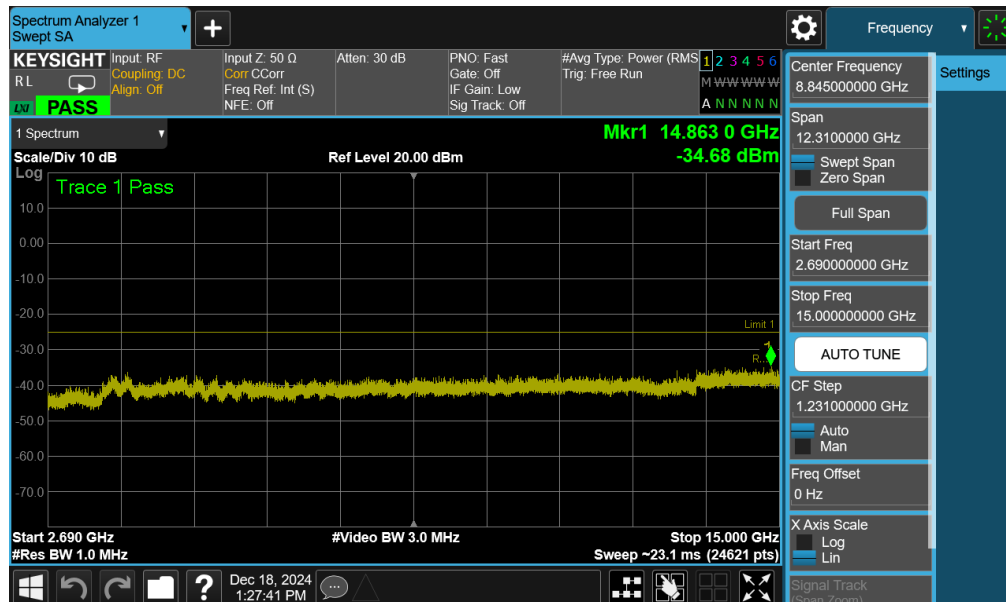
Plot 7-142. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 112 of 178                   |

## NR Band n41(PC2) – Ant6

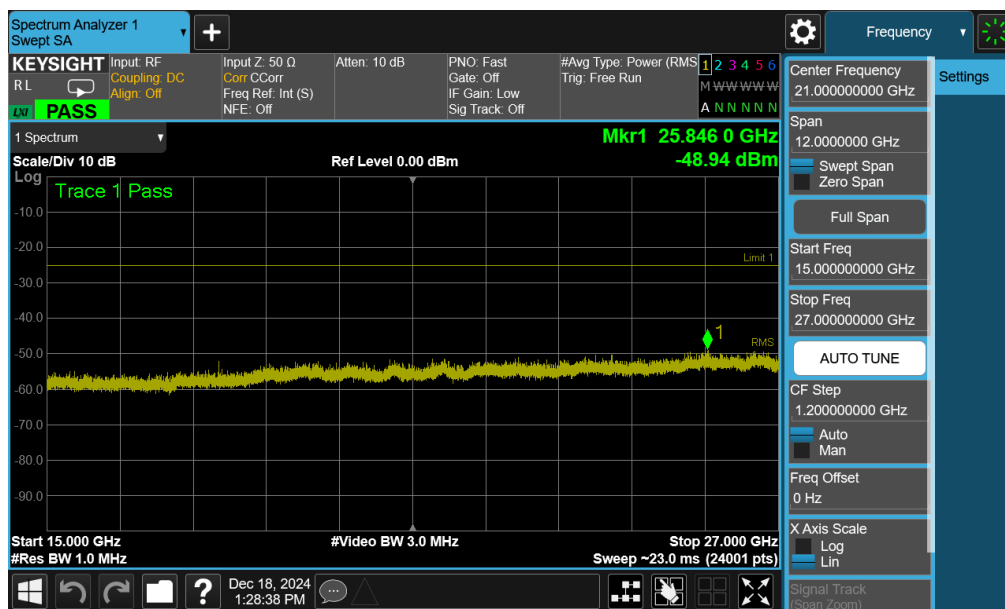


Plot 7-143. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant6)



Plot 7-144. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant6)

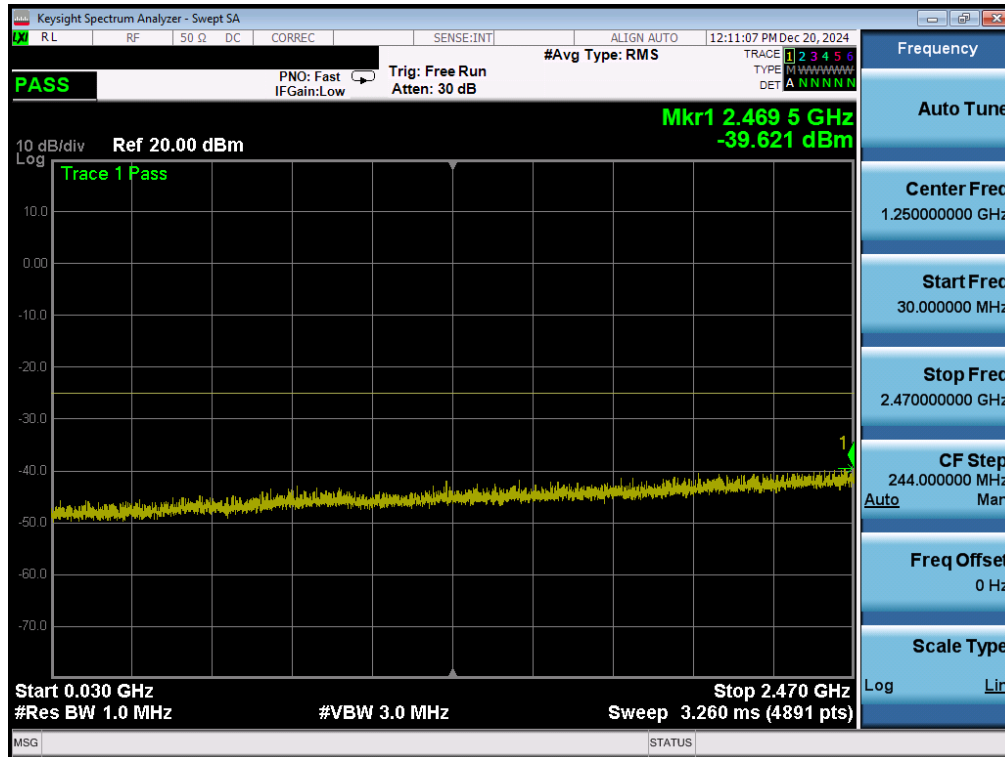
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 113 of 178                   |



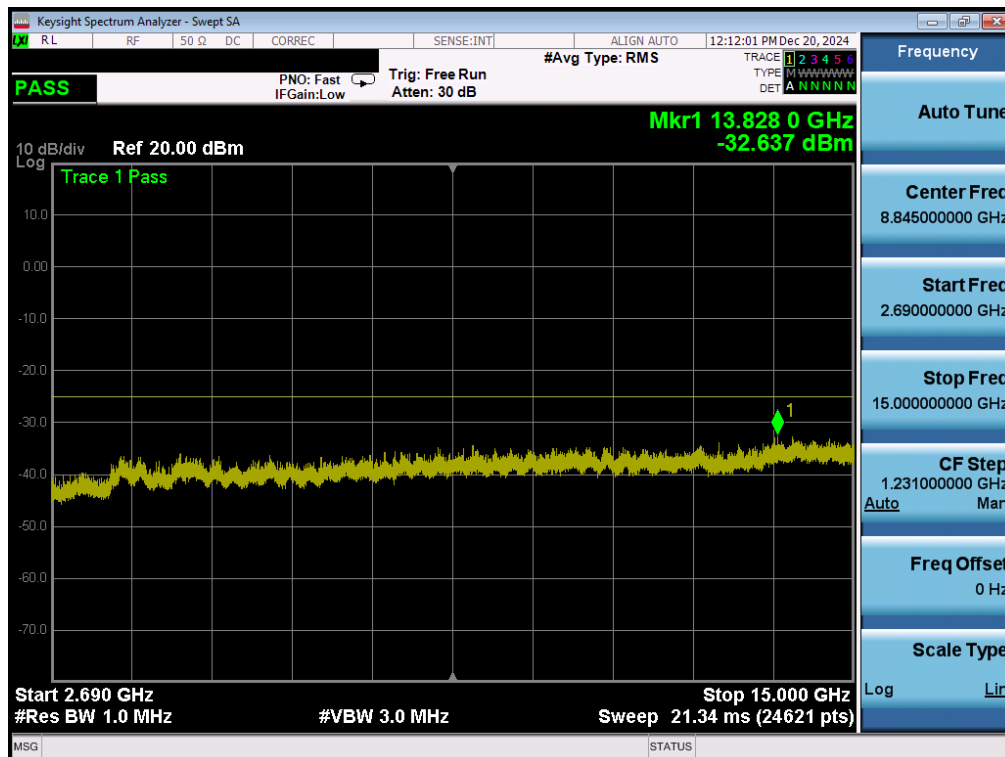
Plot 7-145. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 114 of 178                   |

## NR Band n41(PC3) – Ant6

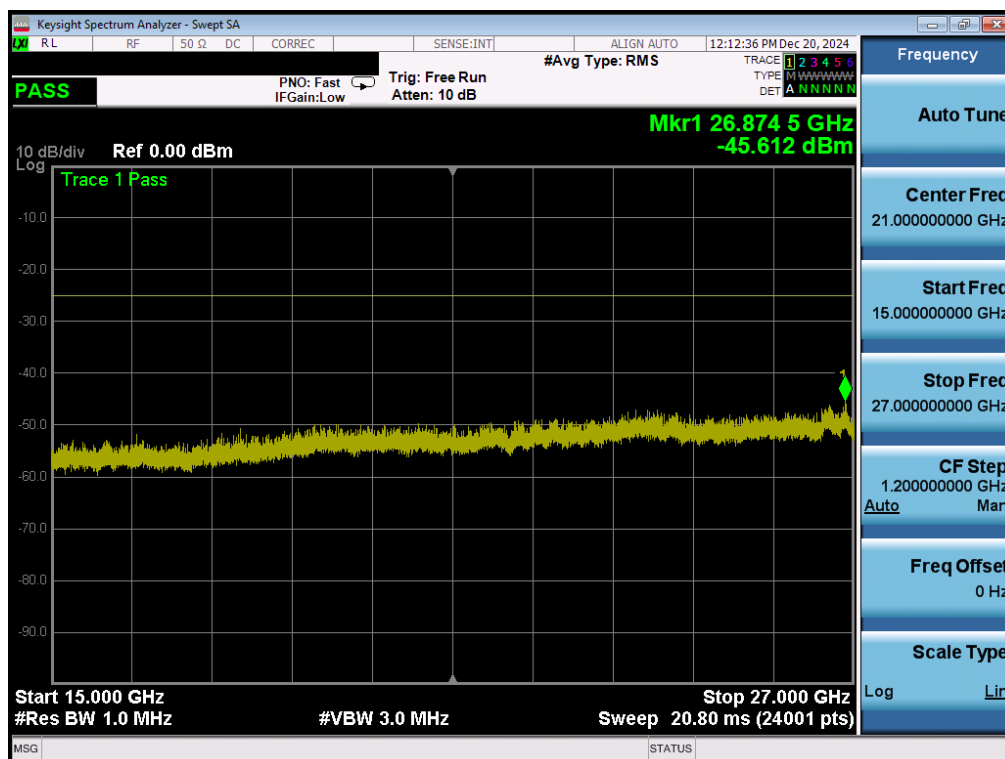


Plot 7-146. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant6)



Plot 7-147. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 115 of 178                   |



Plot 7-148. Conducted Spurious Plot (NR Band n41(PC3) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 116 of 178                   |

| Mode        | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|-------------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n41PC1.5 | 100MHz    | Low     | 30.0 - 2470.0     | -42.48      | -25         | -17.48      |
|             |           | Low     | 2690.0 - 15000.0  | -36.18      | -25         | -11.18      |
|             |           | Low     | 15000.0 - 27000.0 | -49.61      | -25         | -24.61      |
|             |           | Mid     | 30.0 - 2470.0     | -42.11      | -25         | -17.11      |
|             |           | Mid     | 2690.0 - 15000.0  | -36.23      | -25         | -11.23      |
|             |           | Mid     | 15000.0 - 27000.0 | -49.2       | -25         | -24.20      |
|             |           | High    | 30.0 - 2470.0     | -39.21      | -25         | -14.21      |
|             |           | High    | 2715.0 - 15000.0  | -36.47      | -25         | -11.46      |
|             |           | High    | 15000.0 - 27000.0 | -50.42      | -25         | -25.42      |

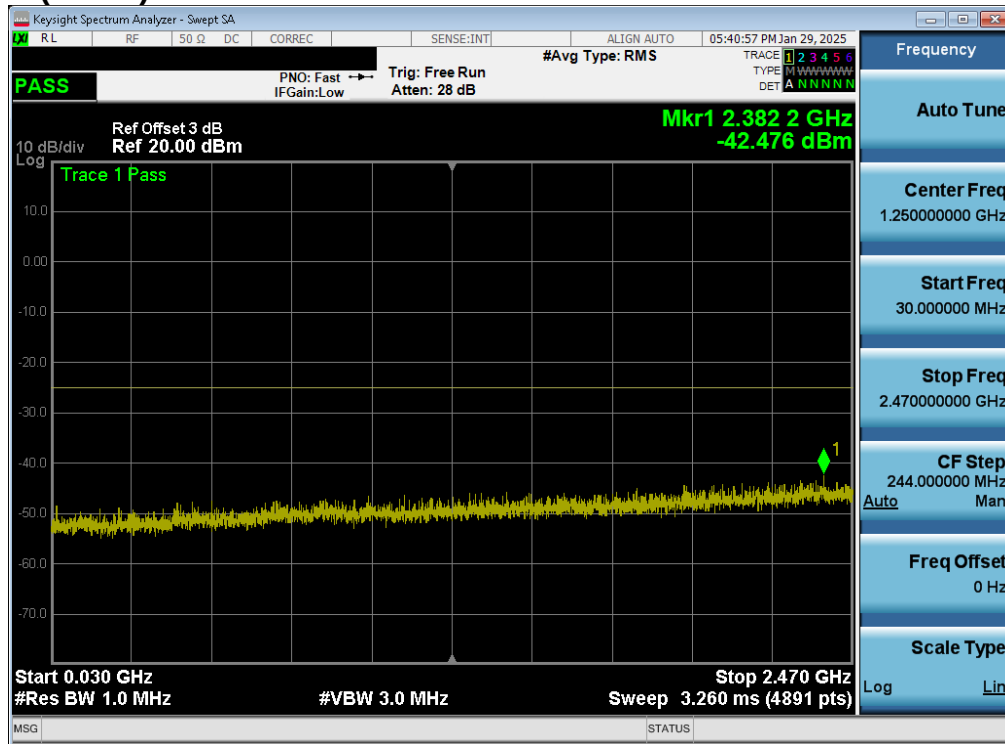
Table 7-27. Conducted Spurious Emission Test Results – UL MIMO Ant1

| Mode        | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|-------------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n41PC1.5 | 100MHz    | Low     | 30.0 - 2470.0     | -37.14      | -25         | -12.14      |
|             |           | Low     | 2690.0 - 15000.0  | -34.26      | -25         | -9.26       |
|             |           | Low     | 15000.0 - 27000.0 | -42.10      | -25         | -17.10      |
|             |           | Mid     | 30.0 - 2496.0     | -35.54      | -25         | -10.54      |
|             |           | Mid     | 2690.0 - 15000.0  | -28.81      | -25         | -3.81       |
|             |           | Mid     | 15000.0 - 27000.0 | -42.15      | -25         | -17.15      |
|             |           | High    | 30.0 - 2470.0     | -36.86      | -25         | -11.86      |
|             |           | High    | 2715.0 - 15000.0  | -29.56      | -25         | -4.56       |
|             |           | High    | 15000.0 - 27000.0 | -42.69      | -25         | -17.69      |

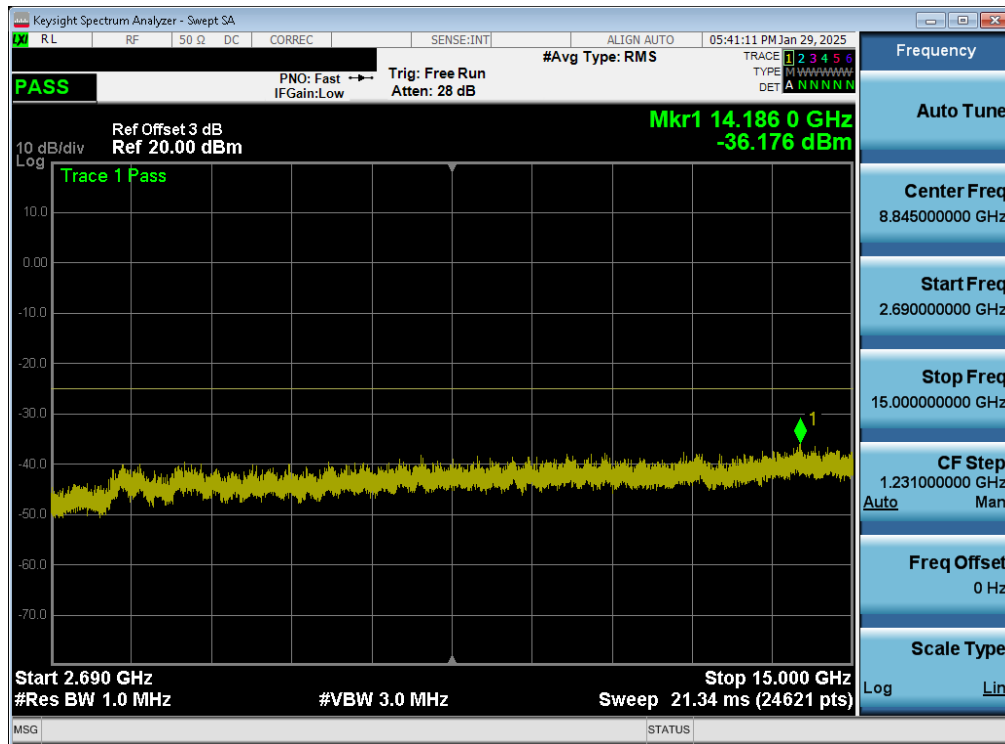
Table 7-28. Conducted Spurious Emission Test Results – UL MIMO Ant6

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 117 of 178                   |

## NR Band n41(PC1.5) – UL MIMO Ant1

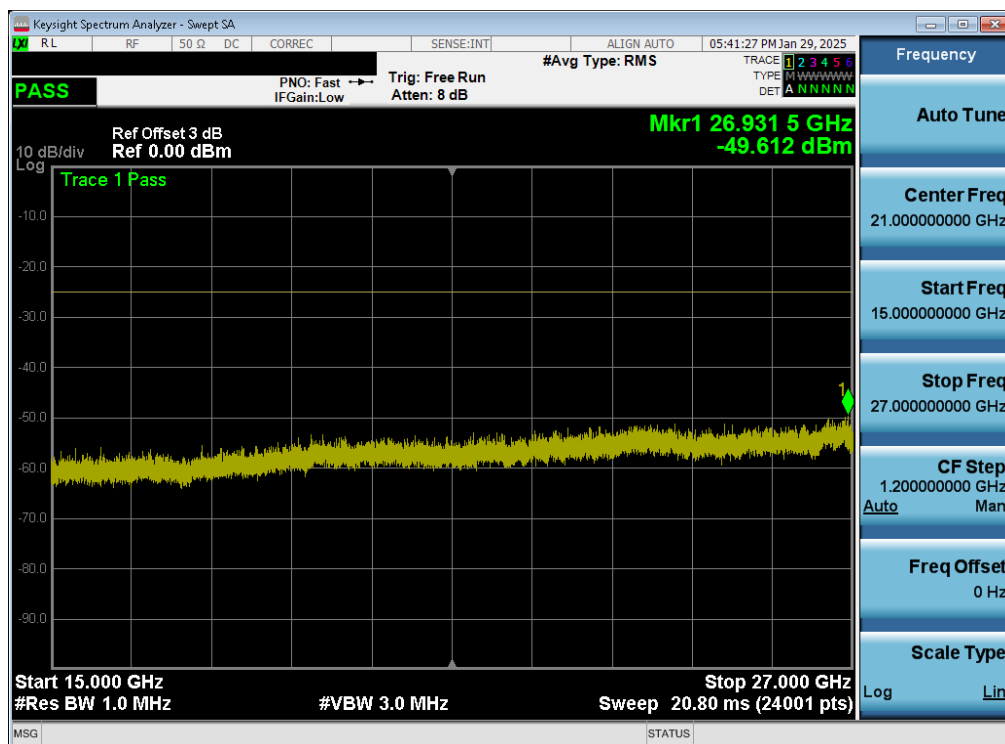


Plot 7-149. Conducted Spurious Plot (NR Band n41(PC1.5) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel – UL MIMO Ant1)



Plot 7-150. Conducted Spurious Plot (NR Band n41(PC1.5) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel – UL MIMO Ant1)

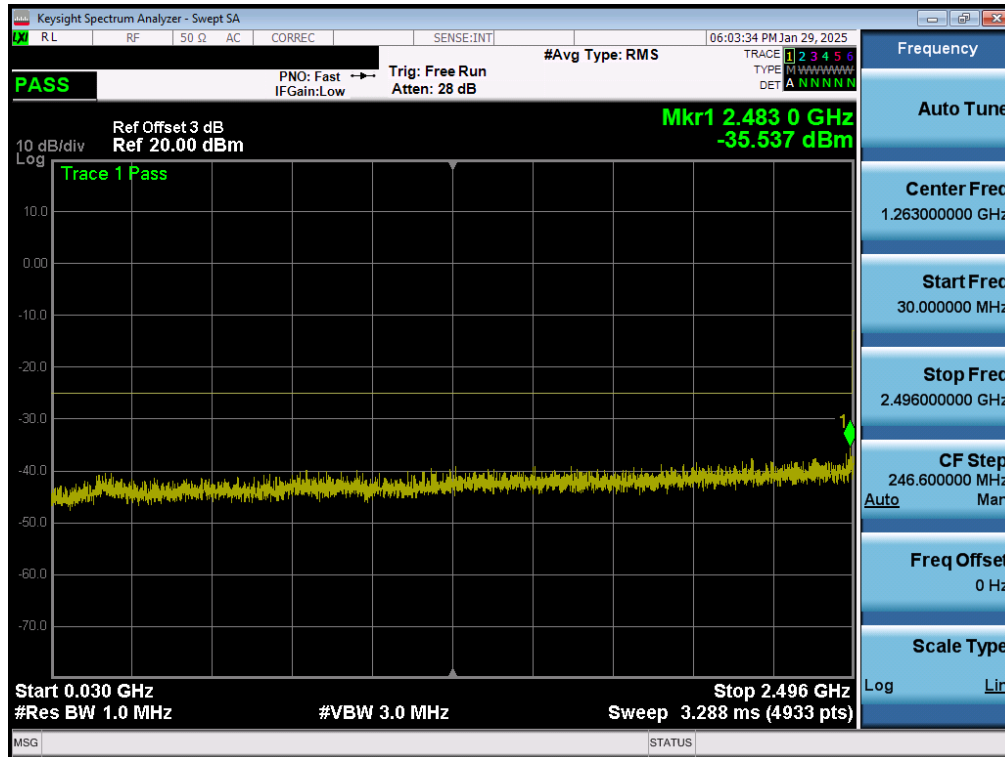
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 118 of 178                   |



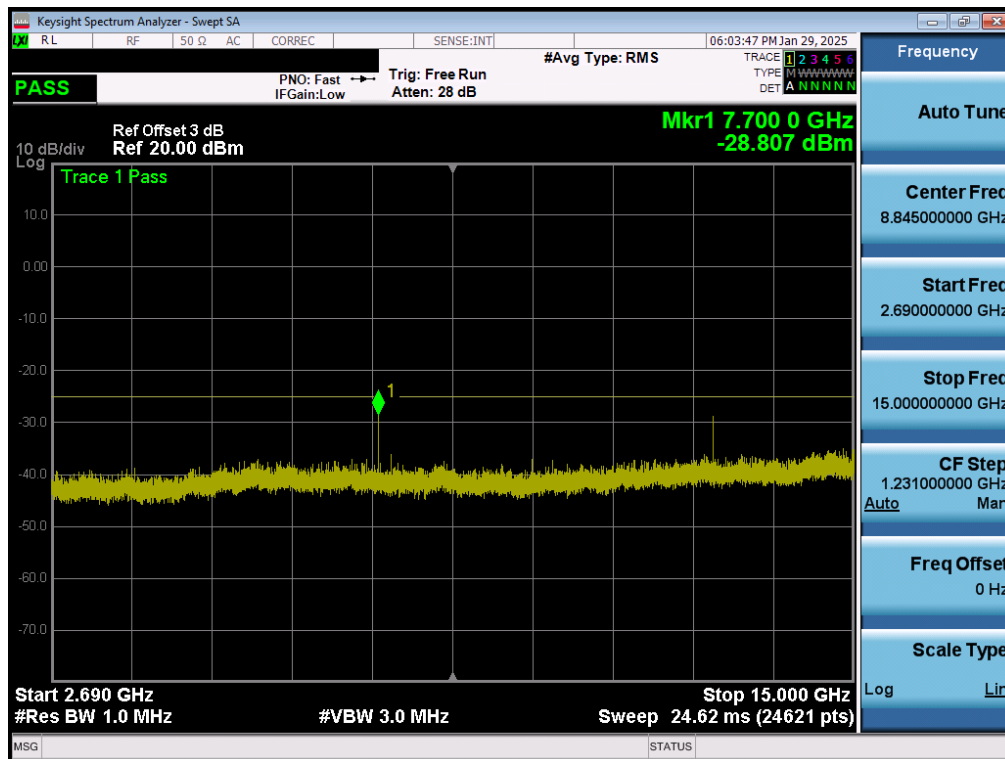
Plot 7-151. Conducted Spurious Plot (NR Band n41(PC1.5) - 100MHz QPSK - RB Size 1, RB Offset 136 - Low Channel – UL MIMO Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 119 of 178                   |

## NR Band n41(PC1.5) – UL MIMO Ant6

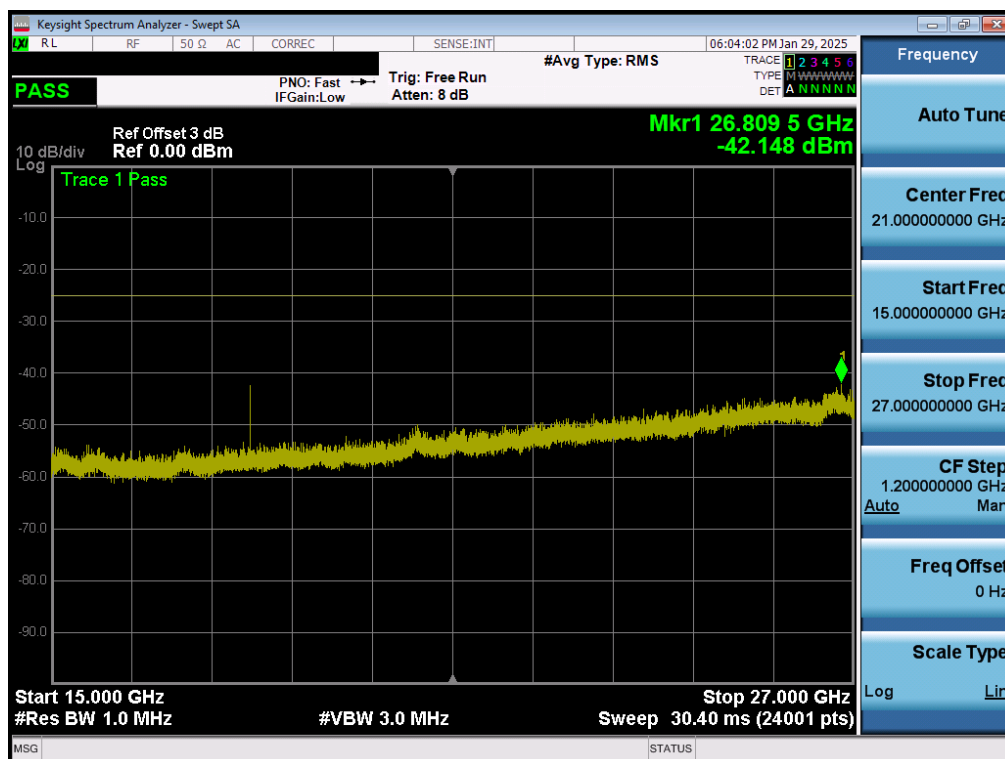


Plot 7-152. Conducted Spurious Plot (NR Band n41(PC1.5) - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant6)



Plot 7-153. Conducted Spurious Plot (NR Band n41(PC1.5) - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 120 of 178                   |



Plot 7-154. Conducted Spurious Plot (NR Band n41(PC1.5) - 100MHz QPSK - RB Size 1, RB Offset 136 - Mid Channel – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 121 of 178                   |

## 7.5 Band Edge Emissions at Antenna Terminal

### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

***The minimum permissible attenuation level for Band 30 is  $> 43 + 10 \log_{10} (P[\text{Watts}]$  at 2300-2305MHz & 2345-2360MHz,  $> 55 + 10 \log_{10} (P[\text{Watts}]$  at 2320-2324MHz & 2341-2345MHz,  $> 61 + 10 \log_{10} (P[\text{Watts}]$  at 2324-2328MHz & 2337-2341MHz,  $> 67 + 10 \log_{10} (P[\text{Watts}]$  at 2288-2292MHz & 2328-2337MHz, and  $> 70 + 10 \log_{10} (P[\text{Watts}]$  at frequencies  $< 2288\text{MHz}$  &  $> 2365\text{MHz}$ .***

***The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.***

### Test Procedure Used

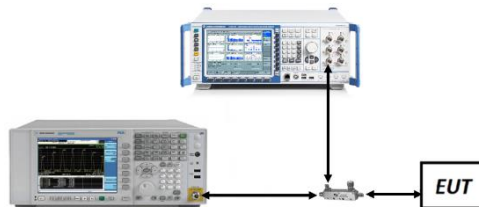
ANSI C63.26-2015 – Section 5.7.3

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq 1\%$  of the emission bandwidth
4. VBW  $\geq 3 \times$  RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times$  Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-4. Test Instrument & Measurement Setup**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 122 of 178                   |

## Test Notes

1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
2. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz.
3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
4. Per ANSI C63.26-2015, MIMO compliance was addressed by adding  $10\log(2) = 3\text{dB}$  to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

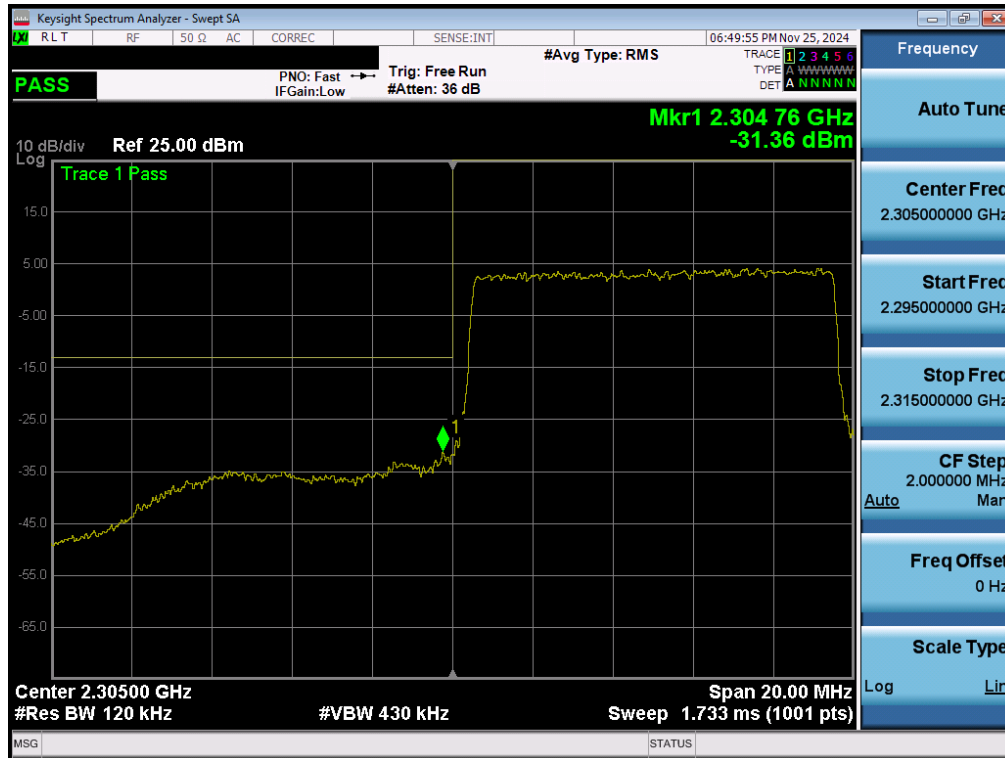
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 123 of 178                   |

| Mode             | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE-B30          | 10MHz     | Low     | Band Edge | -31.36      | -13         | -18.36      |
|                  |           | Low     | Extended  | -26.21      | -25         | -1.21       |
|                  |           | High    | Band Edge | -28.30      | -13         | -15.30      |
|                  |           | High    | Extended  | -37.93      | -37         | -0.93       |
|                  | 5MHz      | Low     | Band Edge | -26.92      | -13         | -13.92      |
|                  |           | Low     | Extended  | -14.10      | -13         | -1.10       |
|                  |           | High    | Band Edge | -26.50      | -13         | -13.50      |
|                  |           | High    | Extended  | -37.35      | -31         | -6.35       |
| LTE-B41PC2       | 20MHz     | Low     | Band Edge | -29.26      | -25         | -4.26       |
|                  |           | High    | Band Edge | -24.43      | -10         | -14.43      |
|                  | 15MHz     | Low     | Band Edge | -30.38      | -25         | -5.38       |
|                  |           | High    | Band Edge | -39.00      | -25         | -14.00      |
|                  | 10MHz     | Low     | Band Edge | -30.07      | -25         | -5.07       |
|                  |           | High    | Band Edge | -36.48      | -25         | -11.48      |
|                  | 5MHz      | Low     | Band Edge | -21.83      | -13         | -8.83       |
|                  |           | High    | Band Edge | -36.95      | -25         | -11.95      |
| LTE-B41PC3       | 20MHz     | Low     | Band Edge | -30.95      | -25         | -5.95       |
|                  |           | High    | Band Edge | -40.46      | -25         | -15.46      |
|                  | 15MHz     | Low     | Band Edge | -28.86      | -25         | -3.86       |
|                  |           | High    | Band Edge | -40.50      | -25         | -15.50      |
|                  | 10MHz     | Low     | Band Edge | -32.01      | -25         | -7.01       |
|                  |           | High    | Band Edge | -38.76      | -25         | -13.76      |
|                  | 5MHz      | Low     | Band Edge | -20.23      | -13         | -7.23       |
|                  |           | High    | Band Edge | -38.62      | -25         | -13.62      |
| LTE-B38          | 20MHz     | Low     | Band Edge | -41.20      | -25         | -16.20      |
|                  |           | High    | Band Edge | -41.08      | -25         | -16.08      |
|                  | 15MHz     | Low     | Band Edge | -40.74      | -25         | -15.74      |
|                  |           | High    | Band Edge | -39.40      | -25         | -14.40      |
|                  | 10MHz     | Low     | Band Edge | -38.85      | -25         | -13.85      |
|                  |           | High    | Band Edge | -37.86      | -25         | -12.86      |
|                  | 5MHz      | Low     | Band Edge | -38.77      | -25         | -13.77      |
|                  |           | High    | Band Edge | -37.09      | -25         | -12.09      |
| LTE-B41 PC3 ULCA | 20+20MHz  | Low     | Band Edge | -35.93      | -25         | -9.43       |
|                  |           | High    | Band Edge | -20.74      | -13         | -7.74       |

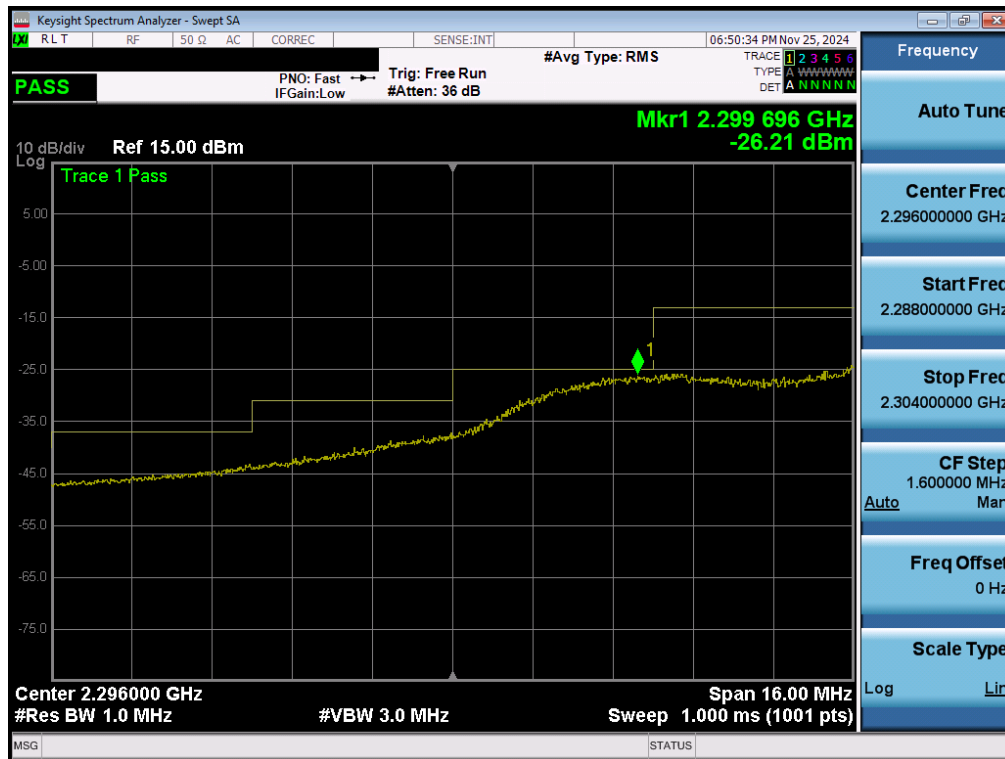
**Table 7-29. Conducted Band Edge Test Results – Ant1**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 124 of 178                   |

## LTE Band 30 – Ant1



Plot 7-155. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant1)



Plot 7-156. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 125 of 178                   |



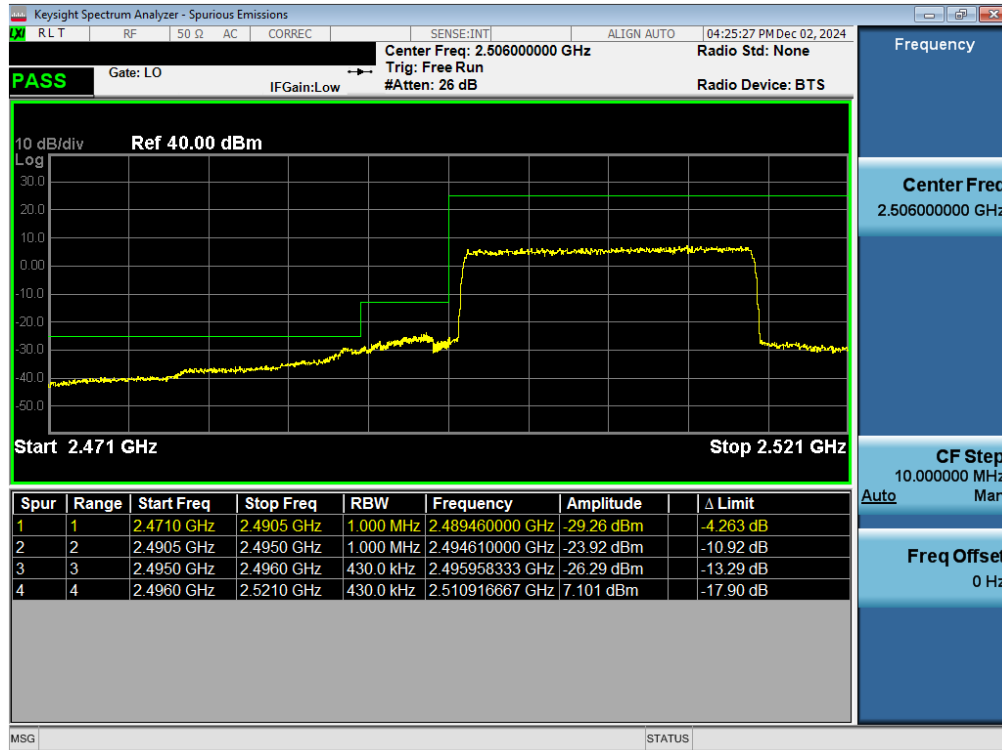
Plot 7-157. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK - Full RB - Ant1)



Plot 7-158. Extended Upper Band Edge Plot (LTE Band 30 A-MPR - 10MHz QPSK - Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 126 of 178                   |

## LTE Band 41(PC2) – Ant1



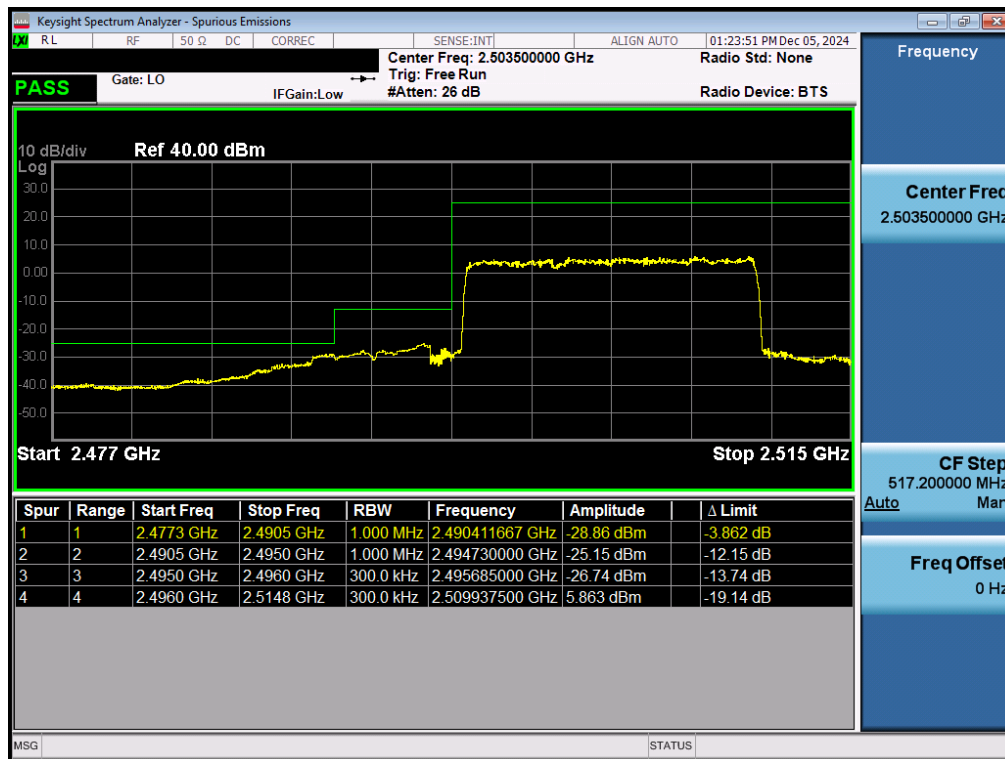
Plot 7-159. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant1)



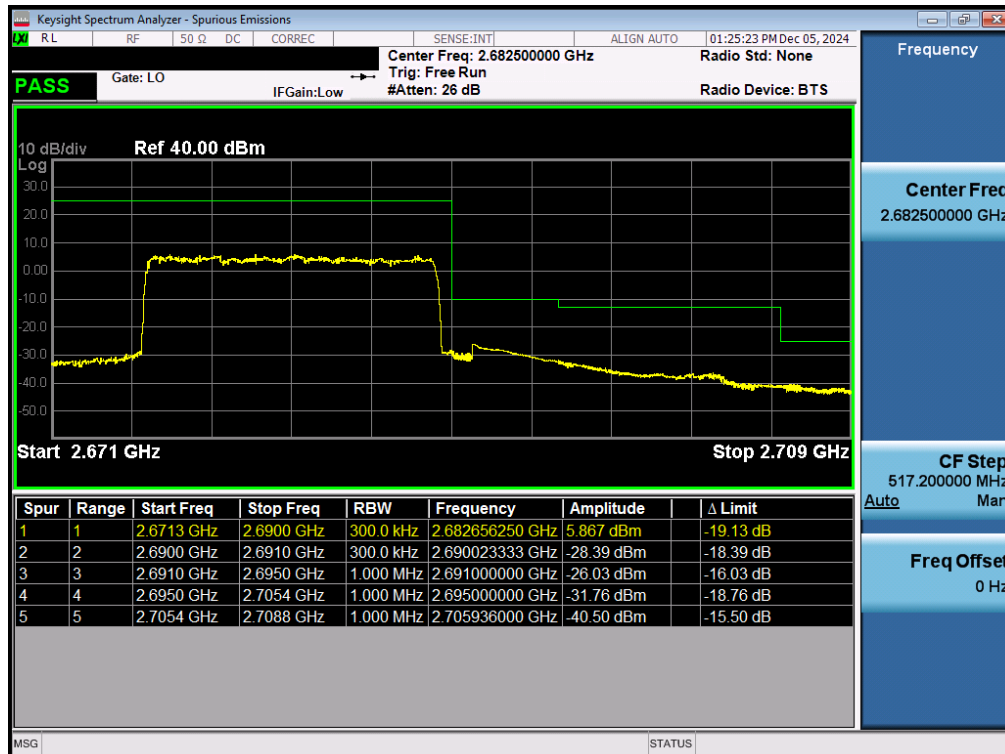
Plot 7-160. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 127 of 178                   |

## LTE Band 41(PC3) – Ant1



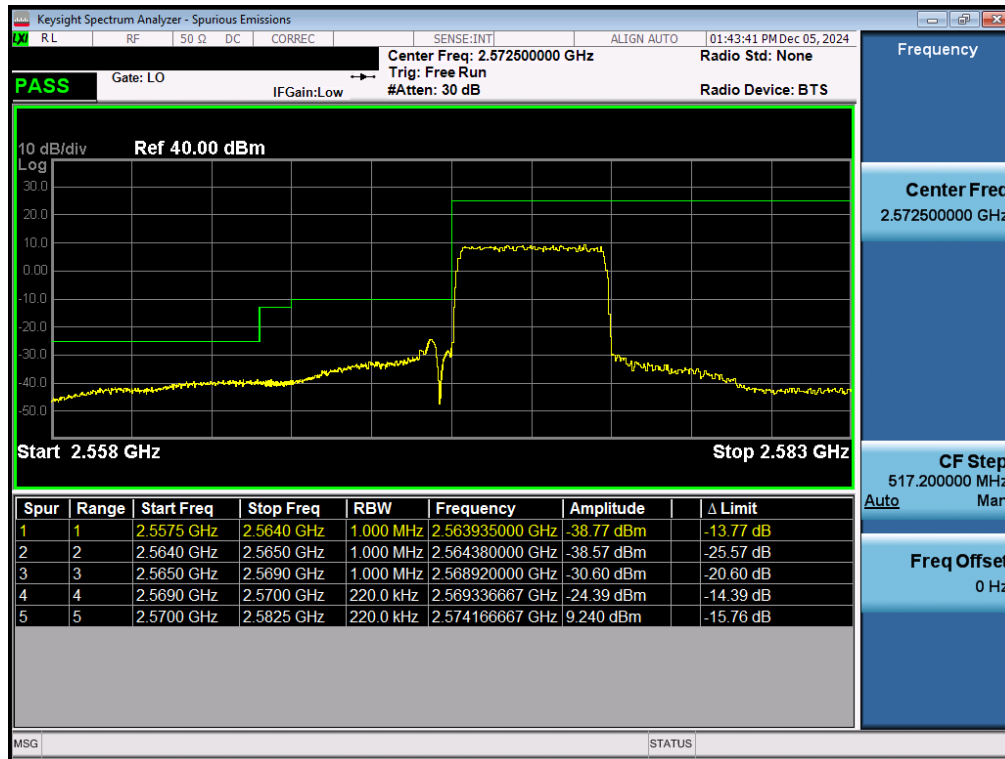
Plot 7-161. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant1)



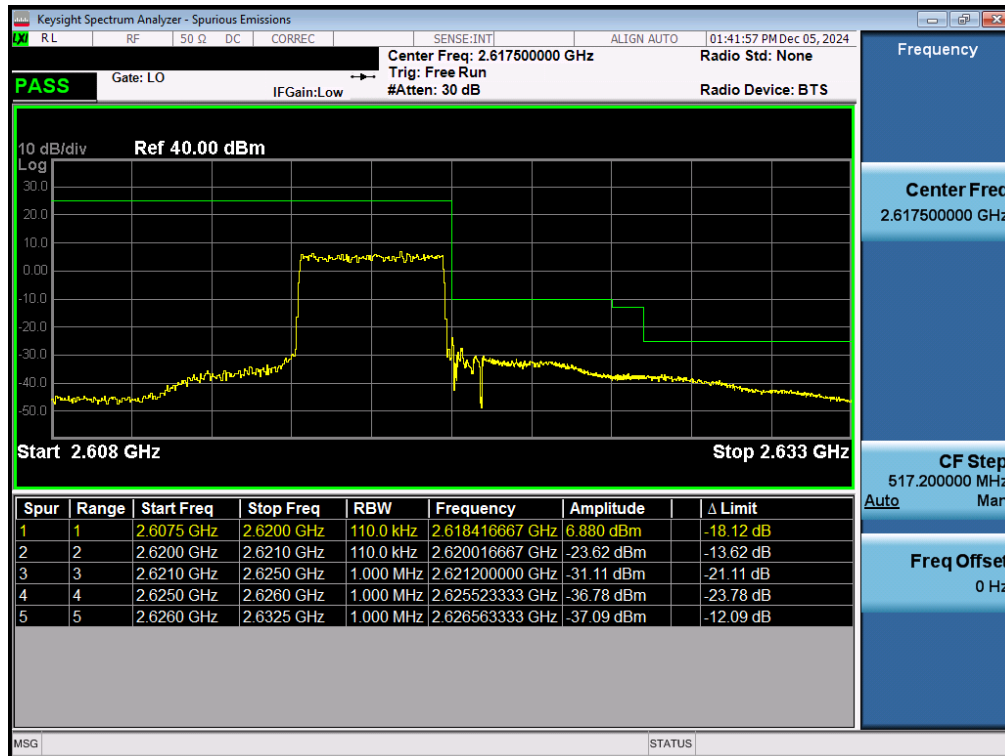
Plot 7-162. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 128 of 178                   |

## LTE Band 38 – Ant1



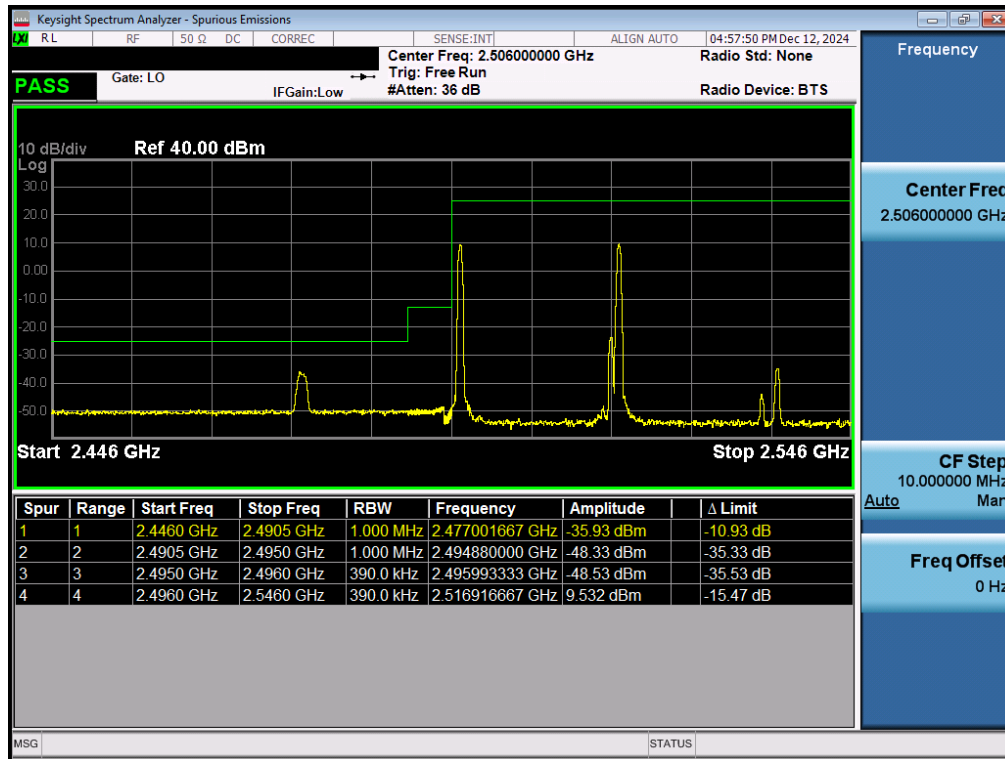
Plot 7-163. Lower ACP Plot (LTE Band 38 - 5MHz QPSK – Full RB - Ant1)



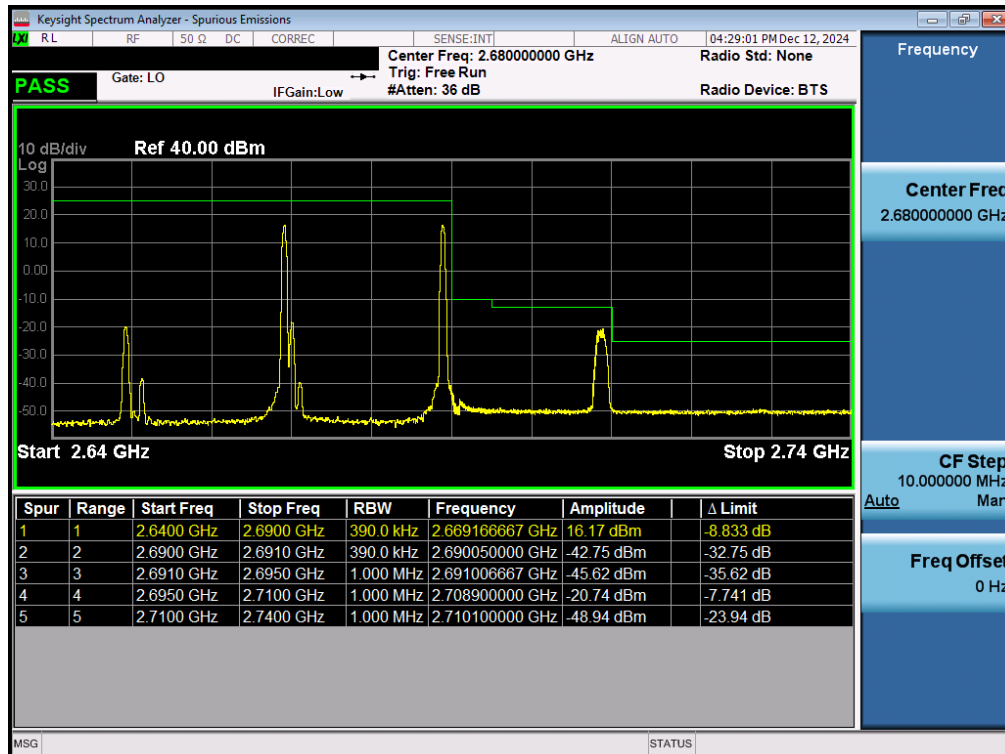
Plot 7-164. Upper ACP Plot (LTE Band 38 - 5MHz QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 129 of 178                   |

## ULCA - LTE Band 41(PC3) – Ant1



Plot 7-165. Lower ACP Plot (ULCA LTE B41(PC3) – 20+20MHz QPSK – 1 RB - Ant1)



Plot 7-166. Upper ACP Plot (ULCA LTE B41(PC3) – 20+20MHz QPSK – 1 RB - Ant1)

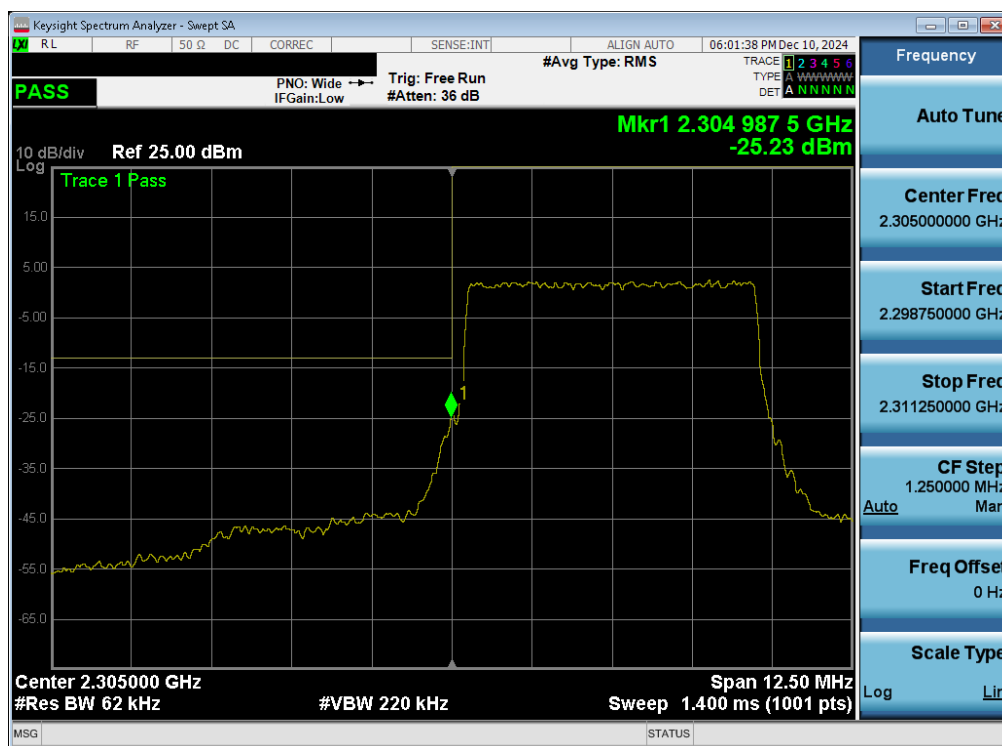
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 130 of 178                   |

| Mode      | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n30    | 10MHz     | Low     | Band Edge | -27.75      | -13         | -14.75      |
|           |           | Low     | Extended  | -19.89      | -13         | -6.89       |
|           |           | High    | Band Edge | -28.77      | -13         | -15.77      |
|           |           | High    | Extended  | -45.42      | -37         | -8.42       |
|           | 5MHz      | Low     | Band Edge | -25.23      | -13         | -12.23      |
|           |           | Low     | Extended  | -14.03      | -13         | -1.03       |
|           |           | High    | Band Edge | -23.51      | -13         | -10.51      |
|           |           | High    | Extended  | -53.85      | -37         | -16.85      |
| NR-n41PC2 | 100MHz    | Low     | Band Edge | -30.81      | -25         | -5.81       |
|           |           | High    | Band Edge | -23.40      | -10         | -13.40      |
|           | 90MHz     | Low     | Band Edge | -28.37      | -13         | -12.84      |
|           |           | High    | Band Edge | -28.37      | -13         | -20.28      |
|           | 80MHz     | Low     | Band Edge | -33.03      | -25         | -8.03       |
|           |           | High    | Band Edge | -27.28      | -13         | -14.28      |
|           | 70MHz     | Low     | Band Edge | -21.27      | -10         | -11.27      |
|           |           | High    | Band Edge | -21.27      | -10         | -21.62      |
|           | 60MHz     | Low     | Band Edge | -28.48      | -25         | -3.48       |
|           |           | High    | Band Edge | -24.31      | -10         | -14.31      |
|           | 50MHz     | Low     | Band Edge | -34.20      | -13         | -21.20      |
|           |           | High    | Band Edge | -34.20      | -13         | -19.75      |
|           | 40MHz     | Low     | Band Edge | -36.50      | -25         | -11.50      |
|           |           | High    | Band Edge | -33.57      | -10         | -23.57      |
|           | 30MHz     | Low     | Band Edge | -29.74      | -10         | -19.74      |
|           |           | High    | Band Edge | -29.74      | -10         | -17.67      |
|           | 20MHz     | Low     | Band Edge | -44.95      | -25         | -19.95      |
|           |           | High    | Band Edge | -44.95      | -25         | -15.74      |
|           | 15MHz     | Low     | Band Edge | -33.11      | -25         | -8.11       |
|           |           | High    | Band Edge | -29.19      | -10         | -19.19      |
|           | 10MHz     | Low     | Band Edge | -36.60      | -25         | -11.60      |
|           |           | High    | Band Edge | -29.14      | -10         | -19.14      |
| NR-n41PC3 | 100MHz    | Low     | Band Edge | -34.68      | -25         | -9.68       |
|           |           | High    | Band Edge | -28.55      | -10         | -18.55      |
|           | 90MHz     | Low     | Band Edge | -35.70      | -25         | -10.70      |
|           |           | High    | Band Edge | -31.69      | -13         | -18.69      |
|           | 80MHz     | Low     | Band Edge | -35.50      | -25         | -10.50      |
|           |           | High    | Band Edge | -30.22      | -13         | -17.22      |
|           | 70MHz     | Low     | Band Edge | -34.10      | -25         | -9.10       |
|           |           | High    | Band Edge | -29.73      | -13         | -16.73      |
|           | 60MHz     | Low     | Band Edge | -34.59      | -25         | -9.59       |
|           |           | High    | Band Edge | -26.88      | -10         | -16.88      |
|           | 50MHz     | Low     | Band Edge | -33.89      | -25         | -8.89       |
|           |           | High    | Band Edge | -34.08      | -13         | -21.08      |
|           | 40MHz     | Low     | Band Edge | -36.33      | -25         | -11.33      |
|           |           | High    | Band Edge | -35.63      | -10         | -25.63      |
|           | 30MHz     | Low     | Band Edge | -30.45      | -25         | -5.45       |
|           |           | High    | Band Edge | -33.61      | -10         | -23.61      |
|           | 20MHz     | Low     | Band Edge | -30.06      | -25         | -5.06       |
|           |           | High    | Band Edge | -31.32      | -10         | -21.32      |
|           | 15MHz     | Low     | Band Edge | -35.50      | -25         | -10.50      |
|           |           | High    | Band Edge | -30.76      | -10         | -20.76      |
|           | 10MHz     | Low     | Band Edge | -37.29      | -25         | -12.29      |
|           |           | High    | Band Edge | -31.79      | -10         | -21.79      |

**Table 7-30. Conducted Band Edge Test Results – Ant1**

|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
| <b>FCC ID:</b> C3K2114                            | <b>PART 27 MEASUREMENT REPORT</b>           |                                  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2411190103-04-R3.C3K | <b>Test Dates:</b><br>12/3/2024 - 2/14/2025 | <b>EUT Type:</b><br>Full Modular | Page 131 of 178                          |

## NR Band n30 – Ant1

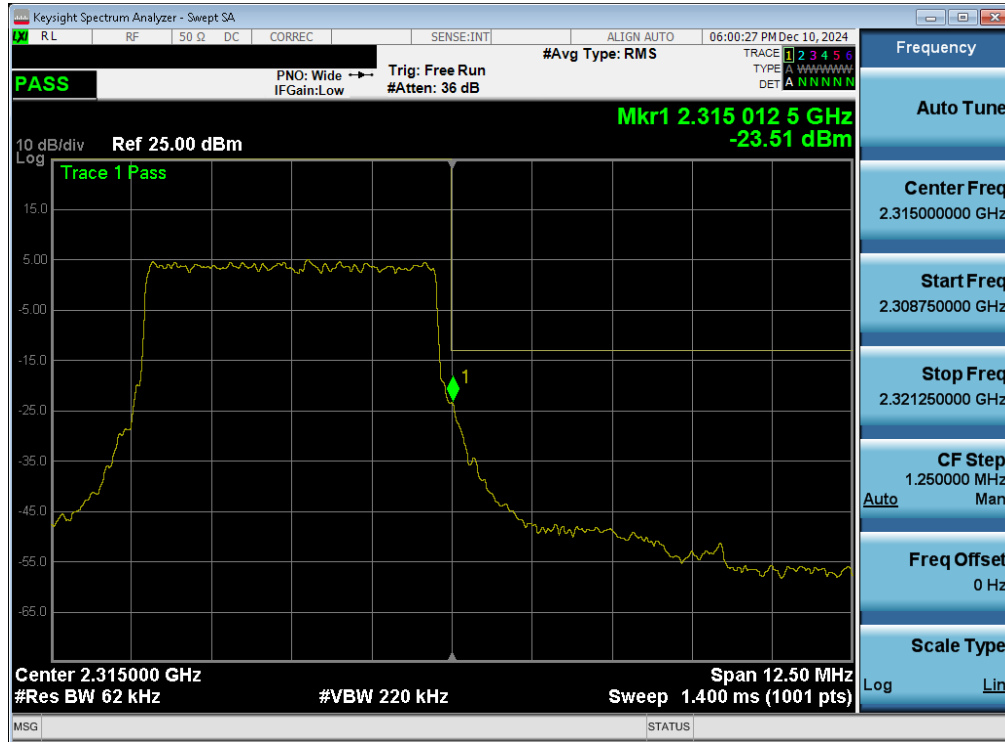


Plot 7-167. Lower Band Edge Plot (NR Band n30 - 5MHz DFTS-QPSK – Full RB - Ant1)

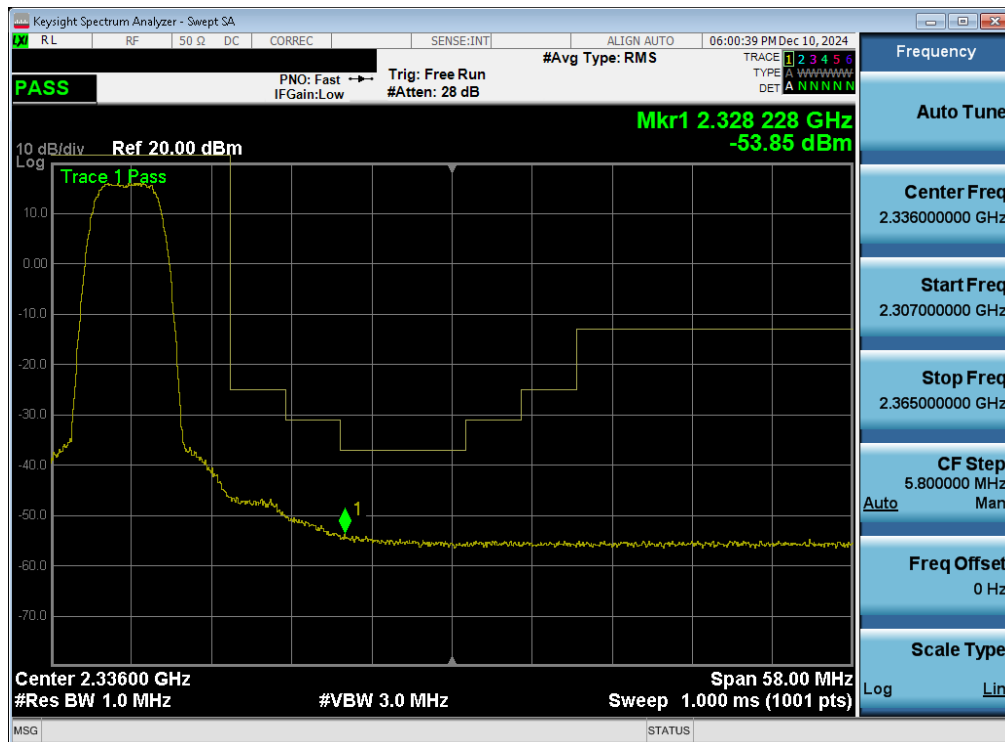


Plot 7-168. Extended Lower Band Edge Plot (NR Band n30 - 5MHz DFTS-QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 132 of 178                   |



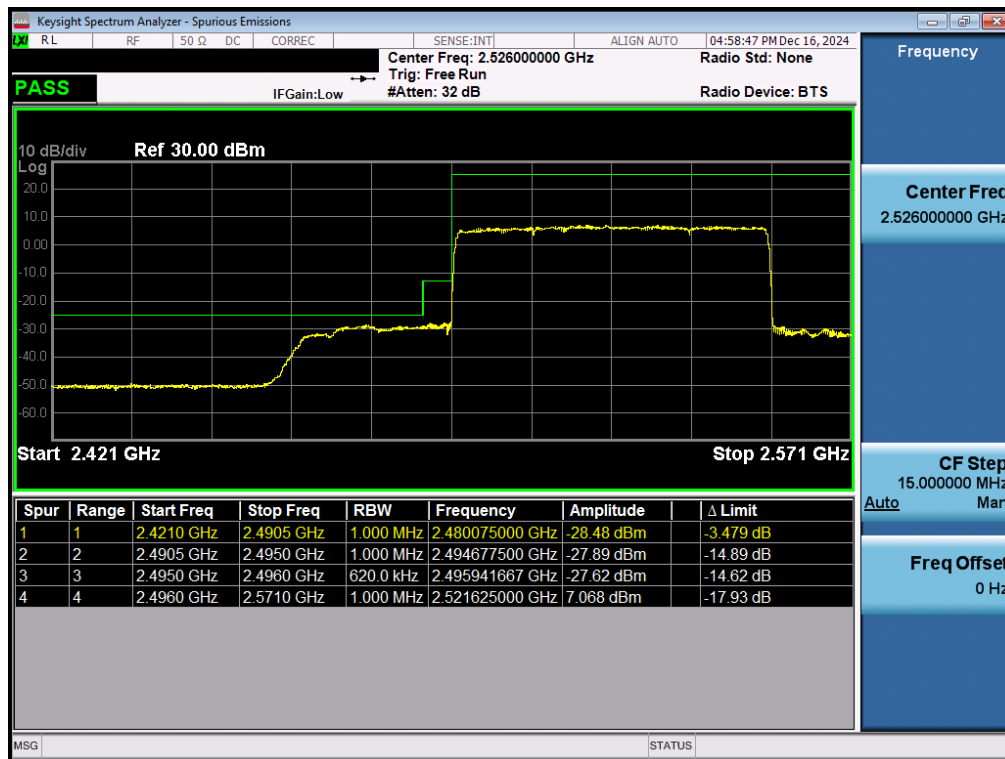
Plot 7-169. Upper Band Edge Plot (NR Band n30 - 5MHz DFTS-QPSK – Full RB - Ant1)



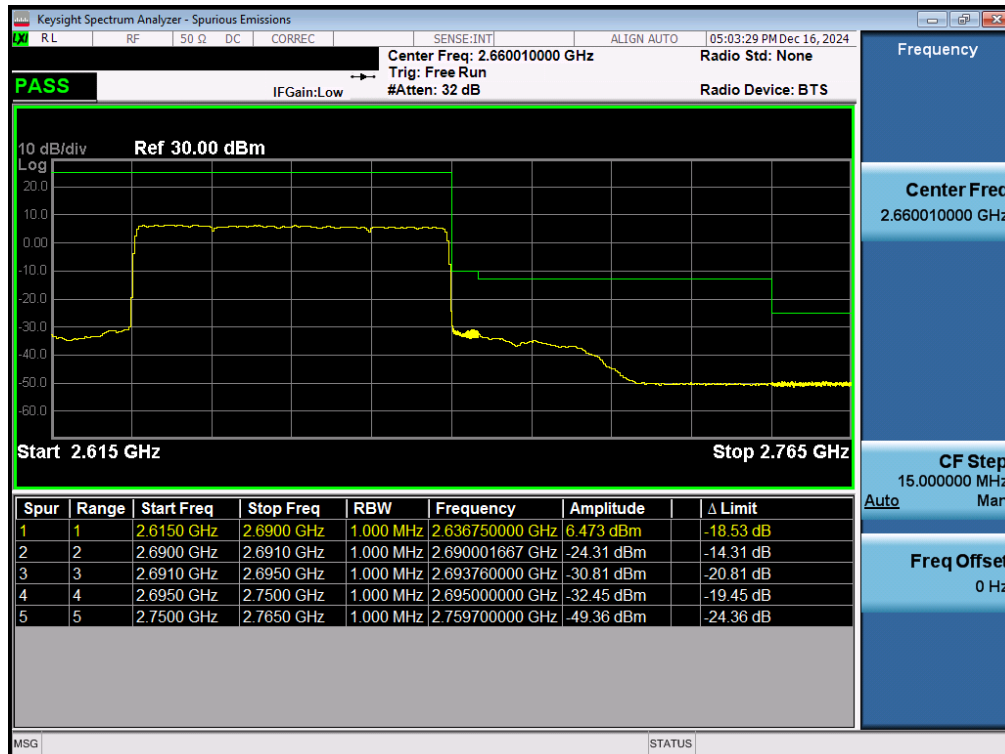
Plot 7-170. Extended Upper Band Edge Plot (NR Band n30 - 5MHz DFTS-QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 133 of 178                   |

## NR Band n41(PC2) – Ant1



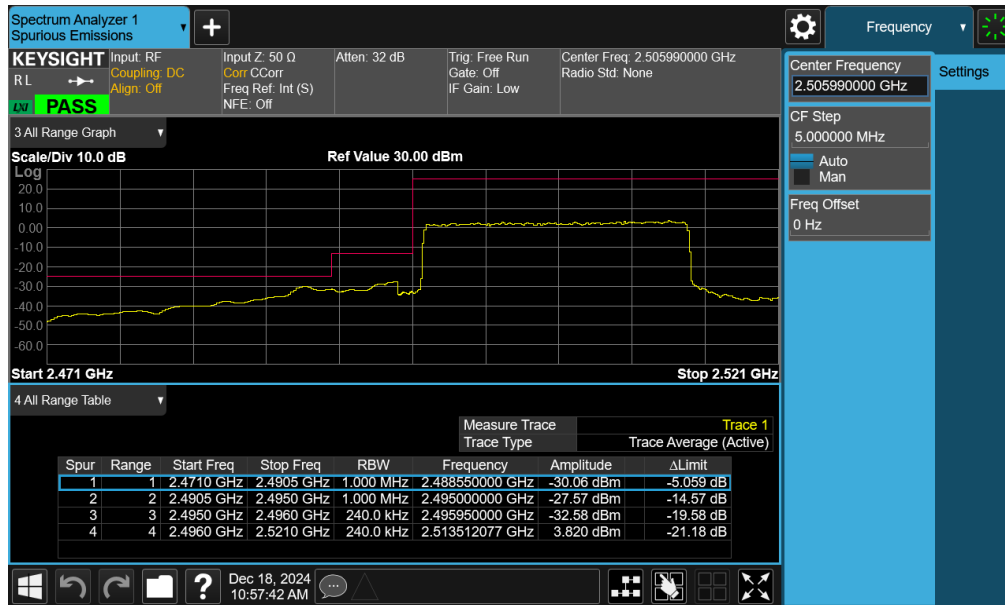
Plot 7-171. Lower ACP Plot (NR Band n41(PC2) - 60MHz DFTS-QPSK – Full RB - Ant1)



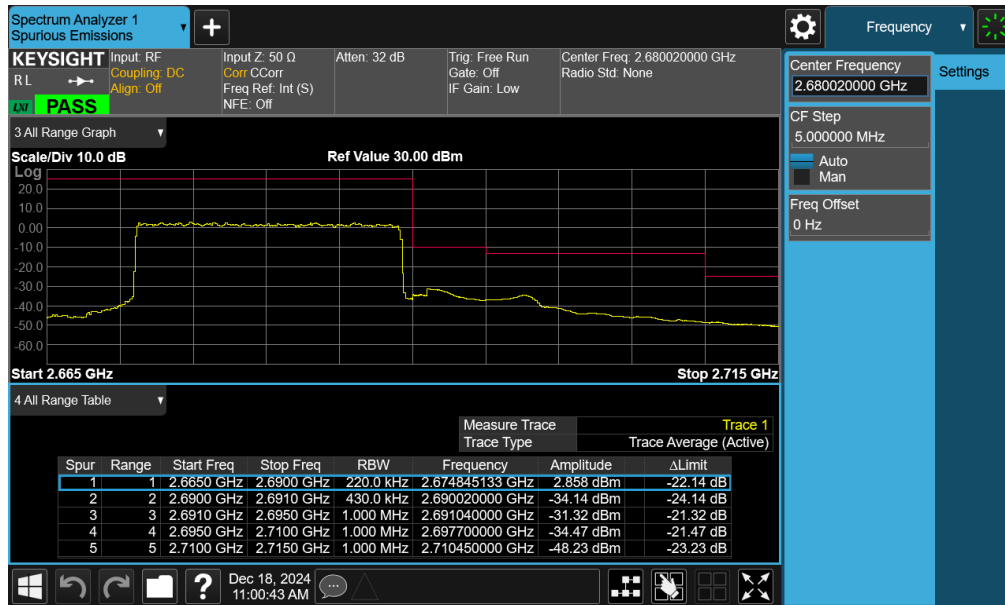
Plot 7-172. Upper ACP Plot (NR Band n41(PC2) - 60MHz DFTS-QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 134 of 178                   |

## NR Band n41(PC3) – Ant1



Plot 7-173. Lower ACP Plot (NR Band n41(PC3) - 20MHz DFTS-QPSK – Full RB - Ant1)



Plot 7-174. Upper ACP Plot (NR Band n41(PC3) - 20MHz DFTS-QPSK – Full RB - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 135 of 178                   |

| Mode       | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE-B41PC2 | 20MHz     | Low     | Band Edge | -26.15      | -25         | -1.15       |
|            |           | High    | Band Edge | -22.94      | -10         | -12.94      |
|            | 15MHz     | Low     | Band Edge | -26.79      | -25         | -1.79       |
|            |           | High    | Band Edge | -39.96      | -25         | -14.96      |
|            | 10MHz     | Low     | Band Edge | -26.15      | -25         | -1.15       |
|            |           | High    | Band Edge | -37.66      | -25         | -12.66      |
|            | 5MHz      | Low     | Band Edge | -23.68      | -13         | -10.68      |
|            |           | High    | Band Edge | -37.99      | -25         | -12.99      |
| LTE-B41PC3 | 20MHz     | Low     | Band Edge | -28.13      | -25         | -3.13       |
|            |           | High    | Band Edge | -41.90      | -25         | -16.90      |
|            | 15MHz     | Low     | Band Edge | -29.68      | -25         | -4.68       |
|            |           | High    | Band Edge | -42.25      | -25         | -17.25      |
|            | 10MHz     | Low     | Band Edge | -28.42      | -25         | -3.42       |
|            |           | High    | Band Edge | -38.49      | -25         | -13.49      |
|            | 5MHz      | Low     | Band Edge | -23.55      | -13         | -10.55      |
|            |           | High    | Band Edge | -39.12      | -25         | -14.12      |

**Table 7-31. Conducted Band Edge Test Results – Ant6**

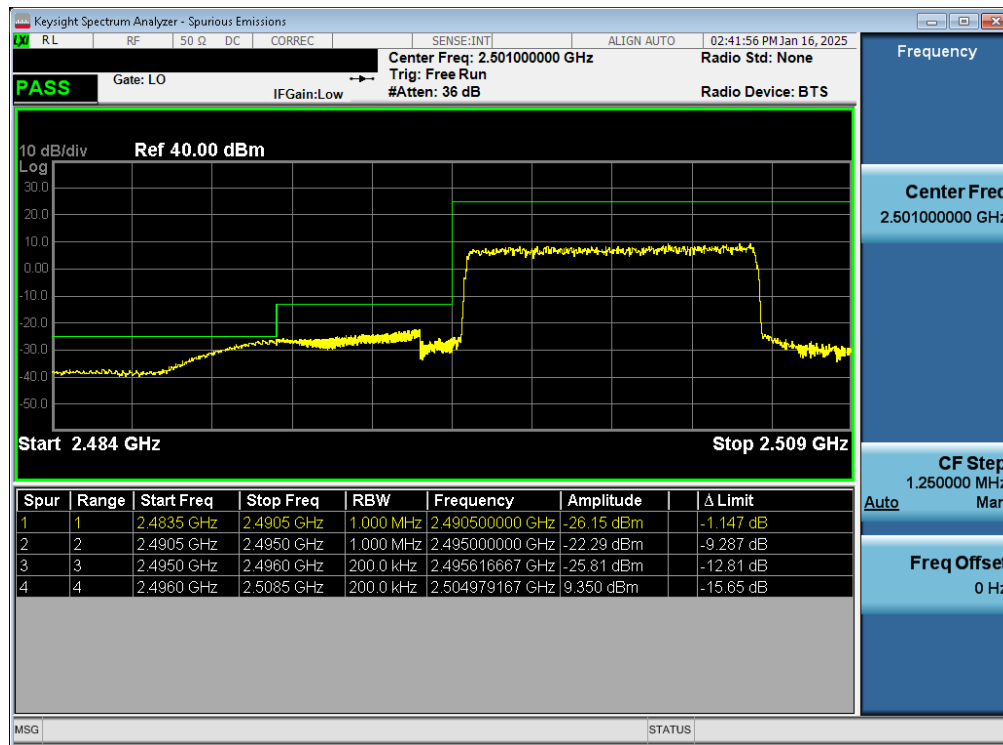
|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
| <b>FCC ID:</b> C3K2114                            | <b>PART 27 MEASUREMENT REPORT</b>           |                                  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2411190103-04-R3.C3K | <b>Test Dates:</b><br>12/3/2024 - 2/14/2025 | <b>EUT Type:</b><br>Full Modular | Page 136 of 178                          |

| Mode      | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n41PC2 | 100MHz    | Low     | Band Edge | -31.22      | -25         | -6.22       |
|           |           | High    | Band Edge | -27.57      | -10         | -17.57      |
|           | 90MHz     | Low     | Band Edge | -38.19      | -25         | -13.19      |
|           |           | High    | Band Edge | -30.06      | -10         | -20.06      |
|           | 80MHz     | Low     | Band Edge | -38.36      | -25         | -13.36      |
|           |           | High    | Band Edge | -33.82      | -13         | -20.82      |
|           | 70MHz     | Low     | Band Edge | -35.62      | -25         | -10.62      |
|           |           | High    | Band Edge | -31.35      | -13         | -18.35      |
|           | 60MHz     | Low     | Band Edge | -36.95      | -25         | -11.95      |
|           |           | High    | Band Edge | -23.77      | -10         | -13.77      |
|           | 50MHz     | Low     | Band Edge | -30.48      | -25         | -5.48       |
|           |           | High    | Band Edge | -27.48      | -13         | -14.48      |
|           | 40MHz     | Low     | Band Edge | -37.67      | -25         | -12.67      |
|           |           | High    | Band Edge | -47.56      | -25         | -22.56      |
|           | 30MHz     | Low     | Band Edge | -36.08      | -25         | -11.08      |
|           |           | High    | Band Edge | -30.53      | -10         | -20.53      |
|           | 20MHz     | Low     | Band Edge | -38.01      | -25         | -13.01      |
|           |           | High    | Band Edge | -42.93      | -25         | -17.93      |
|           | 15MHz     | Low     | Band Edge | -39.05      | -25         | -14.05      |
|           |           | High    | Band Edge | -30.21      | -10         | -20.21      |
|           | 10MHz     | Low     | Band Edge | -40.22      | -25         | -15.22      |
|           |           | High    | Band Edge | -29.22      | -10         | -19.22      |
| NR-n41PC3 | 100MHz    | Low     | Band Edge | -37.55      | -25         | -12.55      |
|           |           | Low     | Band Edge | -31.23      | -10         | -21.23      |
|           | 90MHz     | Low     | Band Edge | -37.40      | -25         | -12.40      |
|           |           | Low     | Band Edge | -30.82      | -10         | -20.82      |
|           | 80MHz     | Low     | Band Edge | -39.12      | -25         | -14.12      |
|           |           | Low     | Band Edge | -33.32      | -10         | -23.32      |
|           | 70MHz     | Low     | Band Edge | -33.72      | -25         | -8.72       |
|           |           | Low     | Band Edge | -49.20      | -25         | -24.20      |
|           | 60MHz     | Low     | Band Edge | -37.53      | -25         | -12.53      |
|           |           | Low     | Band Edge | -24.71      | -10         | -14.71      |
|           | 50MHz     | Low     | Band Edge | -31.62      | -25         | -6.62       |
|           |           | Low     | Band Edge | -29.32      | -13         | -16.32      |
|           | 40MHz     | Low     | Band Edge | -41.24      | -25         | -16.24      |
|           |           | Low     | Band Edge | -32.48      | -13         | -19.48      |
|           | 30MHz     | Low     | Band Edge | -40.31      | -25         | -15.31      |
|           |           | Low     | Band Edge | -29.16      | -13         | -16.16      |
|           | 20MHz     | Low     | Band Edge | -38.07      | -25         | -13.07      |
|           |           | Low     | Band Edge | -44.98      | -25         | -19.98      |
|           | 15MHz     | Low     | Band Edge | -41.04      | -25         | -16.04      |
|           |           | Low     | Band Edge | -26.50      | -13         | -13.50      |
|           | 10MHz     | Low     | Band Edge | -39.44      | -25         | -14.44      |
|           |           | Low     | Band Edge | -28.59      | -10         | -18.59      |

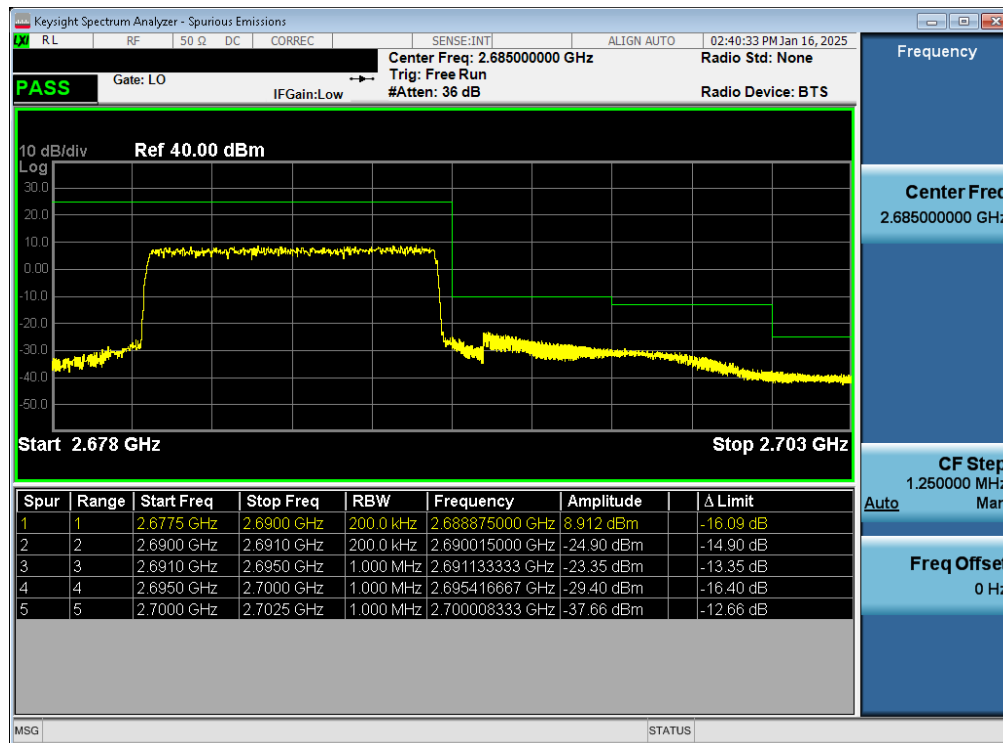
**Table 7-32. Conducted Band Edge Test Results – Ant6**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 137 of 178                   |

## LTE Band 41(PC2) – Ant6



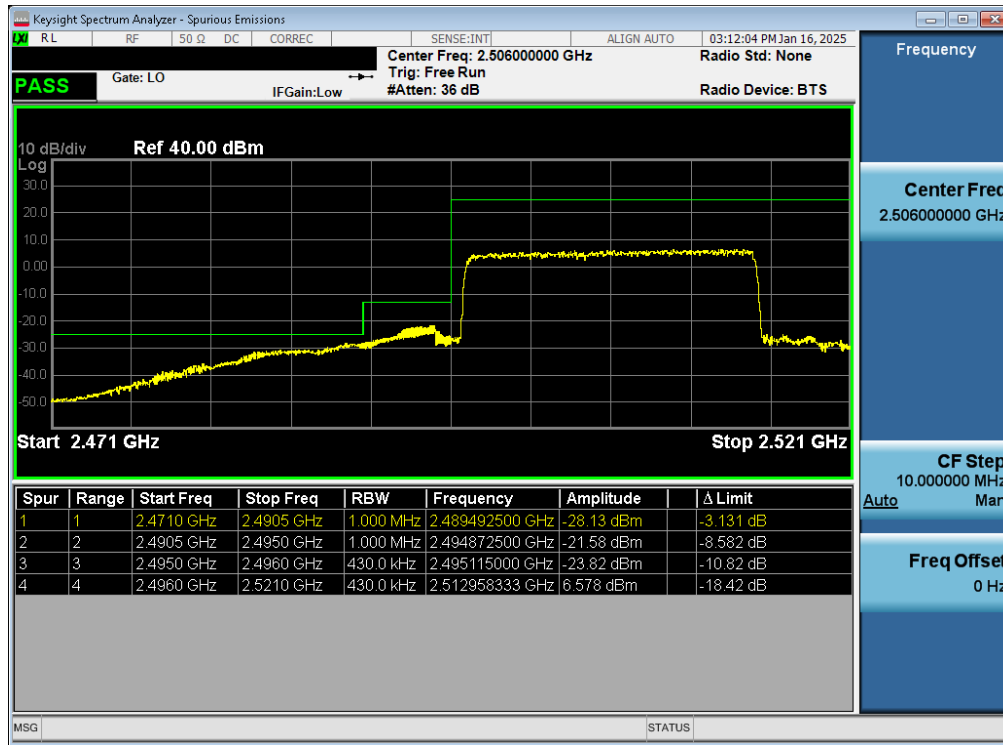
Plot 7-175. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK – Full RB - Ant6)



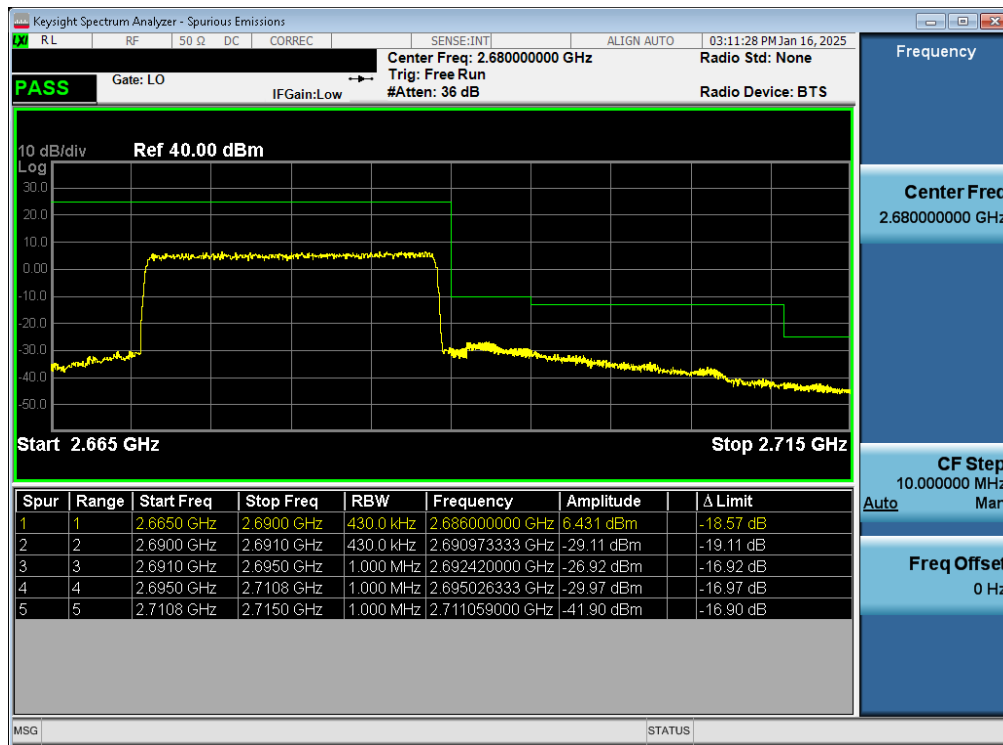
Plot 7-176. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK – Full RB - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 138 of 178                   |

## LTE Band 41(PC3) – Ant6



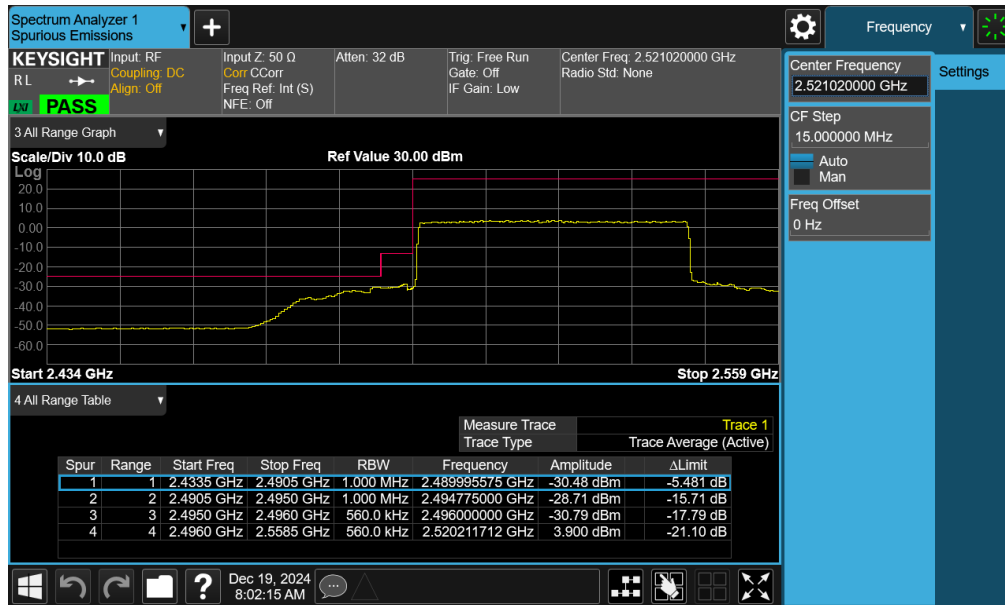
Plot 7-177. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant6)



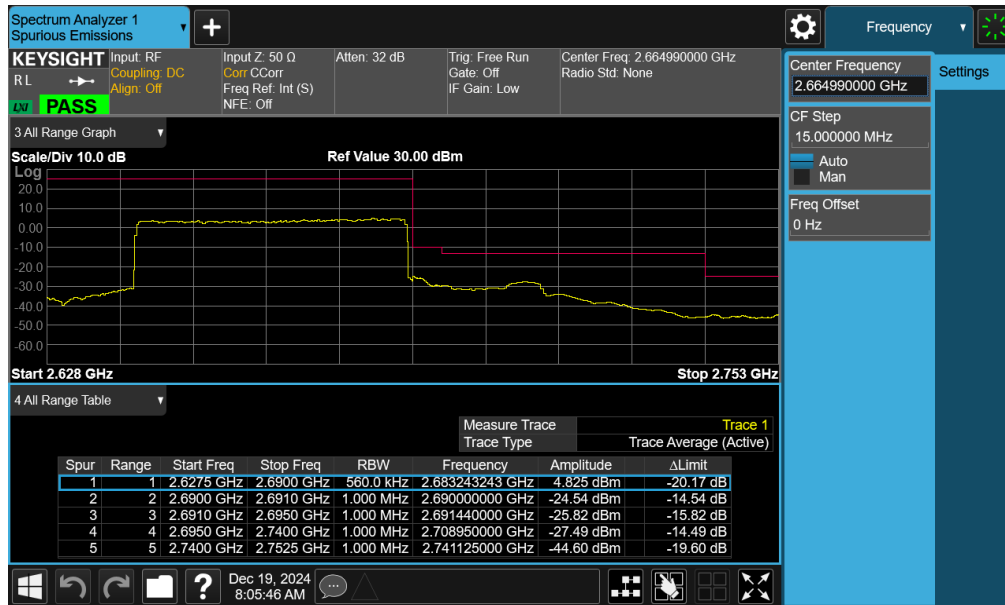
Plot 7-178. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 139 of 178                   |

## NR Band n41(PC2) – Ant6



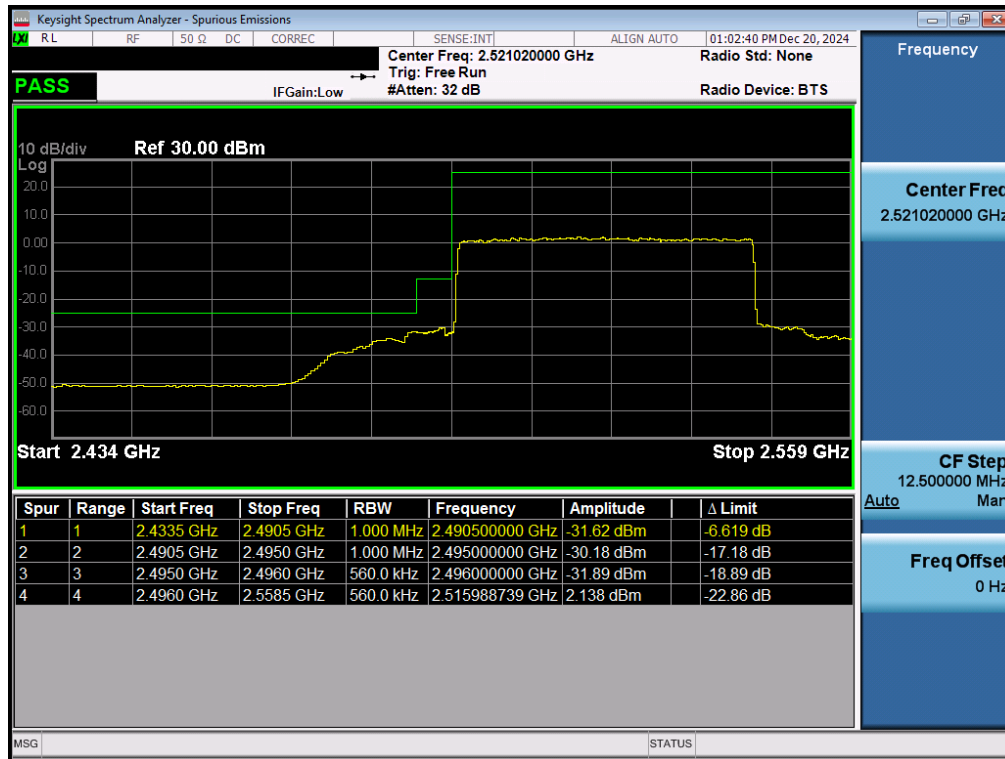
Plot 7-179. Lower ACP Plot (NR Band n41(PC2) - 50MHz DFTs-BPSK – Full RB – Ant6)



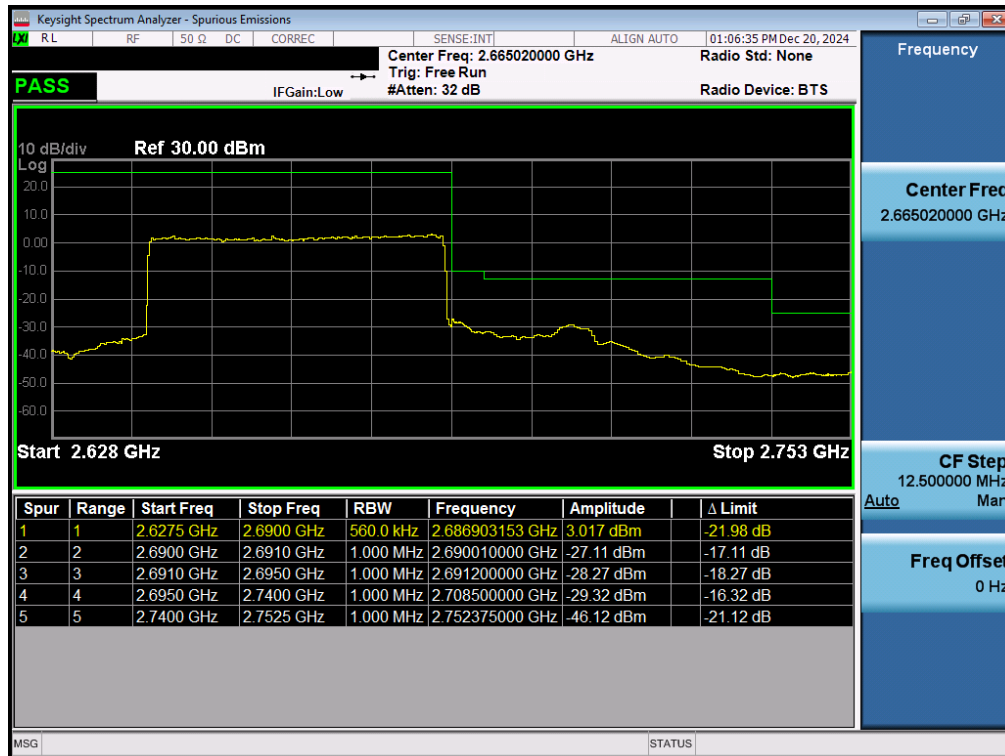
Plot 7-180. Upper ACP Plot (NR Band n41(PC2) - 50MHz DFTs-BPSK – Full RB – Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 140 of 178                   |

## NR Band n41(PC3) – Ant1



Plot 7-181. Lower ACP Plot (NR Band n41(PC3) - 50MHz DFTS-QPSK – Full RB – Ant6)



Plot 7-182. Upper ACP Plot (NR Band n41(PC3) - 50MHz DFTS-QPSK – Full RB – Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 141 of 178                   |

| Mode        | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|-------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n41PC1.5 | 100MHz    | Low     | Band Edge | -25.79      | -25         | -0.79       |
|             |           | High    | Band Edge | -20.41      | -13         | -7.41       |
|             | 90MHz     | Low     | Band Edge | -25.81      | -25         | -0.81       |
|             |           | High    | Band Edge | -19.34      | -13         | -6.34       |
|             | 80MHz     | Low     | Band Edge | -25.80      | -25         | -0.80       |
|             |           | High    | Band Edge | -19.22      | -13         | -6.22       |
|             | 70MHz     | Low     | Band Edge | -25.70      | -25         | -0.70       |
|             |           | High    | Band Edge | -17.18      | -13         | -4.18       |
|             | 60MHz     | Low     | Band Edge | -25.53      | -25         | -0.53       |
|             |           | High    | Band Edge | -18.29      | -10         | -8.29       |
|             | 50MHz     | Low     | Band Edge | -31.74      | -25         | -6.74       |
|             |           | High    | Band Edge | -24.69      | -10         | -14.69      |
|             | 40MHz     | Low     | Band Edge | -30.82      | -25         | -5.82       |
|             |           | High    | Band Edge | -25.64      | -10         | -15.64      |
|             | 30MHz     | Low     | Band Edge | -27.94      | -25         | -2.94       |
|             |           | High    | Band Edge | -19.59      | -10         | -9.59       |
|             | 20MHz     | Low     | Band Edge | -27.85      | -25         | -2.85       |
|             |           | High    | Band Edge | -19.37      | -10         | -9.37       |
|             | 15MHz     | Low     | Band Edge | -28.08      | -25         | -3.08       |
|             |           | High    | Band Edge | -17.54      | -10         | -7.54       |
|             | 10MHz     | Low     | Band Edge | -30.29      | -25         | -5.29       |
|             |           | High    | Band Edge | -29.10      | -10         | -19.10      |

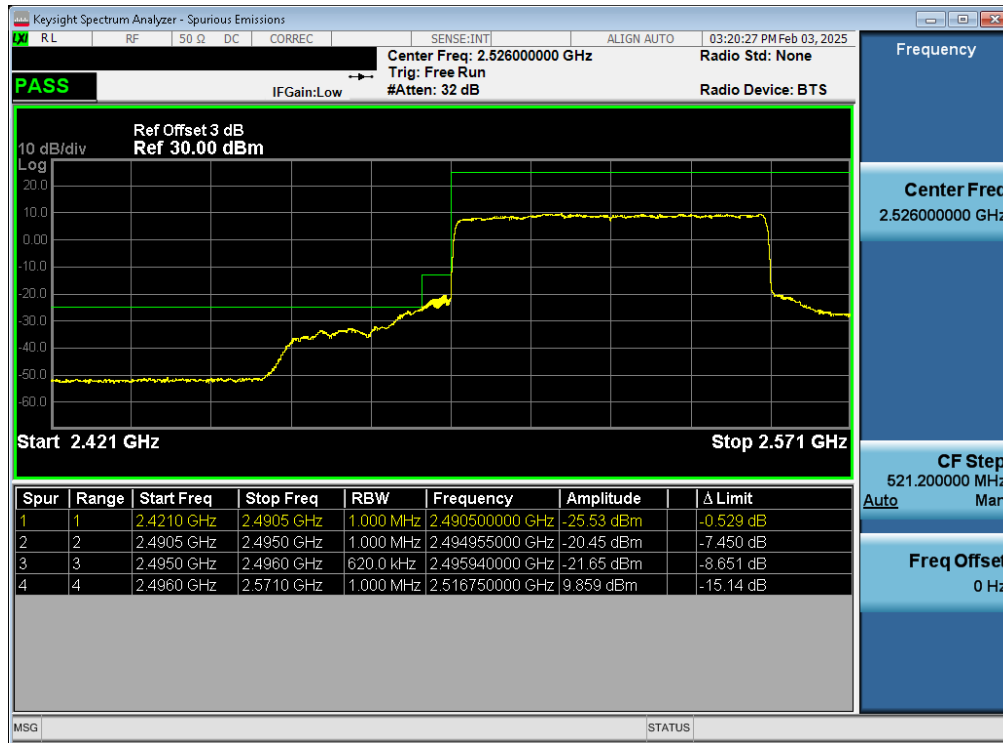
**Table 7-33. Conducted Band Edge Test Results – UL MIMO Ant1**

| Mode        | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|-------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n41PC1.5 | 100MHz    | Low     | Band Edge | -27.04      | -25         | -2.04       |
|             |           | High    | Band Edge | -19.04      | -10         | -9.04       |
|             | 90MHz     | High    | Band Edge | -28.18      | -25         | -3.18       |
|             |           | High    | Band Edge | -26.81      | -13         | -13.81      |
|             | 80MHz     | Low     | Band Edge | -29.14      | -25         | -4.14       |
|             |           | Low     | Band Edge | -21.51      | -13         | -8.51       |
|             | 70MHz     | High    | Band Edge | -27.74      | -25         | -2.74       |
|             |           | High    | Band Edge | -25.53      | -13         | -12.53      |
|             | 60MHz     | Low     | Band Edge | -26.90      | -25         | -1.90       |
|             |           | Low     | Band Edge | -20.88      | -10         | -10.88      |
|             | 50MHz     | High    | Band Edge | -28.27      | -25         | -3.27       |
|             |           | High    | Band Edge | -20.36      | -10         | -10.36      |
|             | 40MHz     | Low     | Band Edge | -32.51      | -25         | -7.51       |
|             |           | Low     | Band Edge | -22.14      | -10         | -12.14      |
|             | 30MHz     | High    | Band Edge | -27.10      | -25         | -2.10       |
|             |           | High    | Band Edge | -19.23      | -10         | -9.23       |
|             | 20MHz     | High    | Band Edge | -29.68      | -25         | -4.68       |
|             |           | High    | Band Edge | -16.31      | -10         | -6.31       |
|             | 15MHz     | High    | Band Edge | -16.67      | -13         | -3.67       |
|             |           | High    | Band Edge | -14.94      | -10         | -4.94       |
|             | 10MHz     | High    | Band Edge | -17.44      | -13         | -4.44       |
|             |           | High    | Band Edge | -15.53      | -10         | -5.53       |

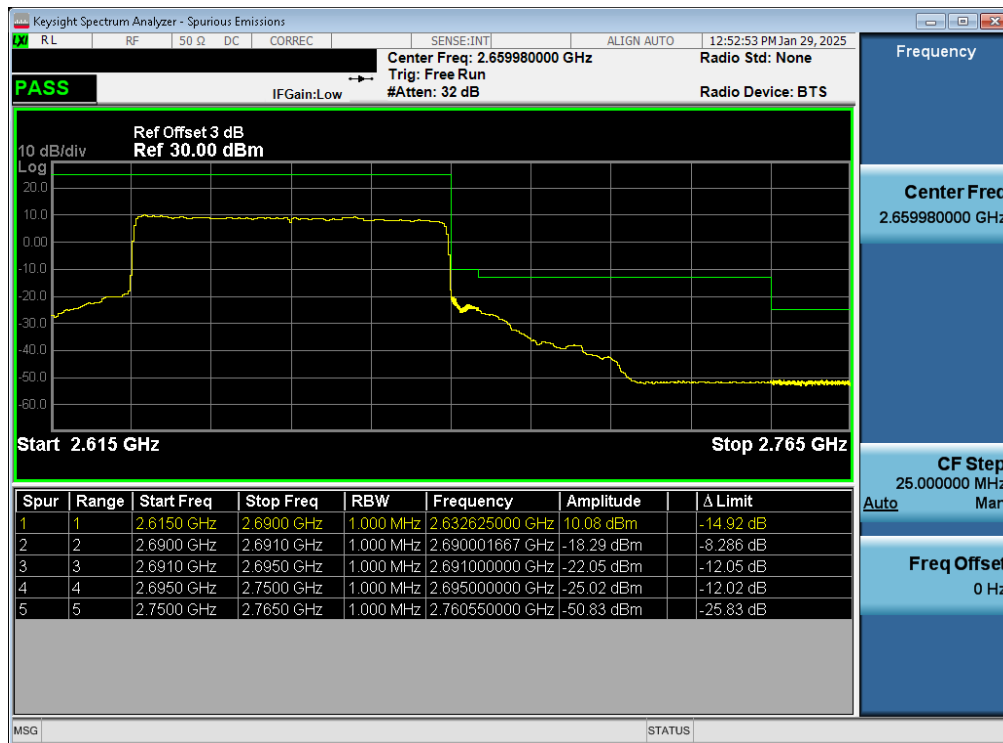
**Table 7-34. Conducted Band Edge Test Results – UL MIMO Ant6**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 142 of 178                   |

## NR Band n41(PC1.5) – UL MIMO Ant1



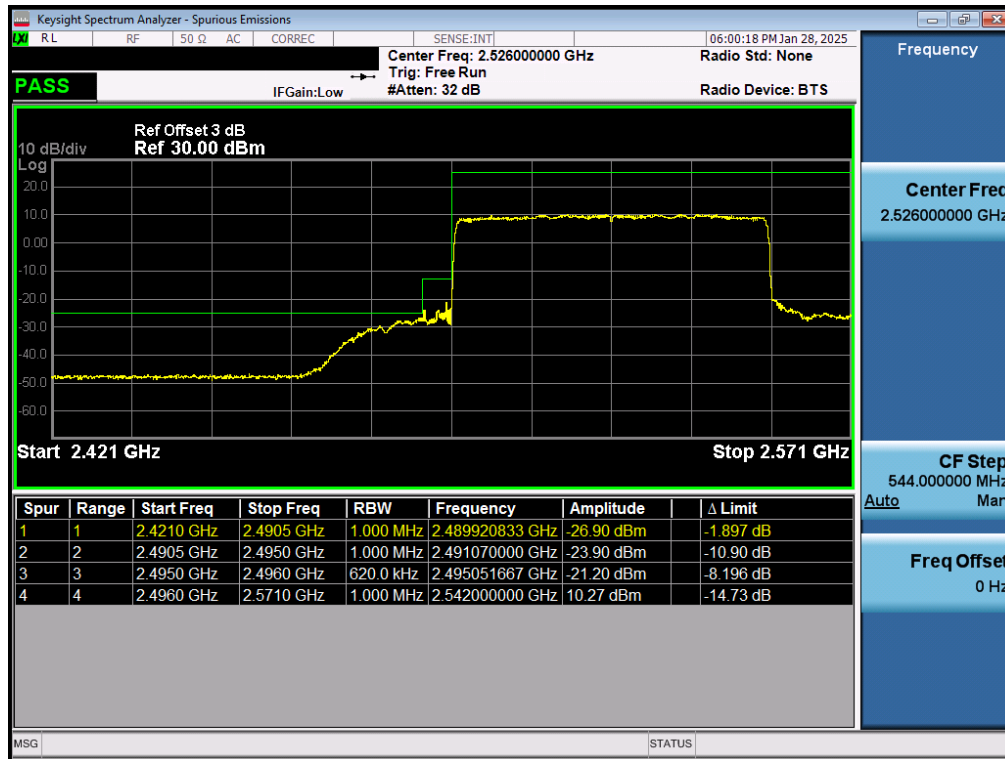
Plot 7-183. Lower ACP Plot (NR Band n41(PC1.5) - 60MHz DFTs-BPSK – Full RB – UL MIMO Ant1)



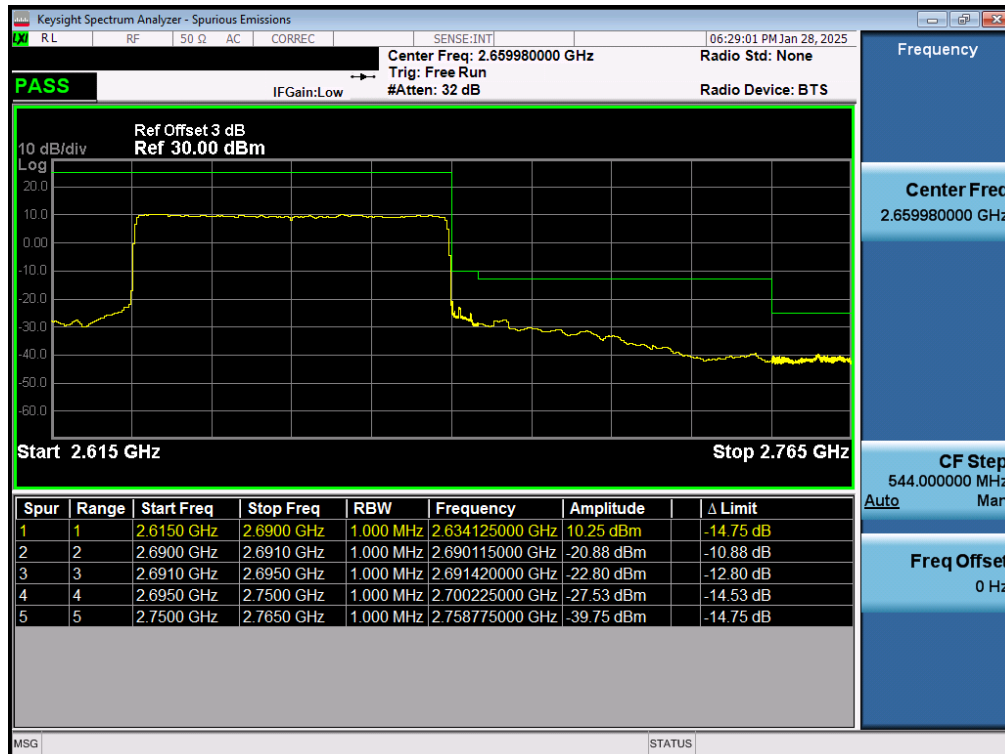
Plot 7-184. Upper ACP Plot (NR Band n41(PC1.5) - 60MHz DFTs-BPSK – Full RB – UL MIMO Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 143 of 178                   |

## NR Band n41(PC1.5) – UL MIMO Ant6



Plot 7-185. Lower ACP Plot (NR Band n41(PC1.5) - 60MHz DFTs-BPSK – Full RB – UL MIMO Ant6)



Plot 7-186. Upper ACP Plot (NR Band n41(PC1.5) - 60MHz DFTs-BPSK – Full RB – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 144 of 178                   |

## 7.6 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

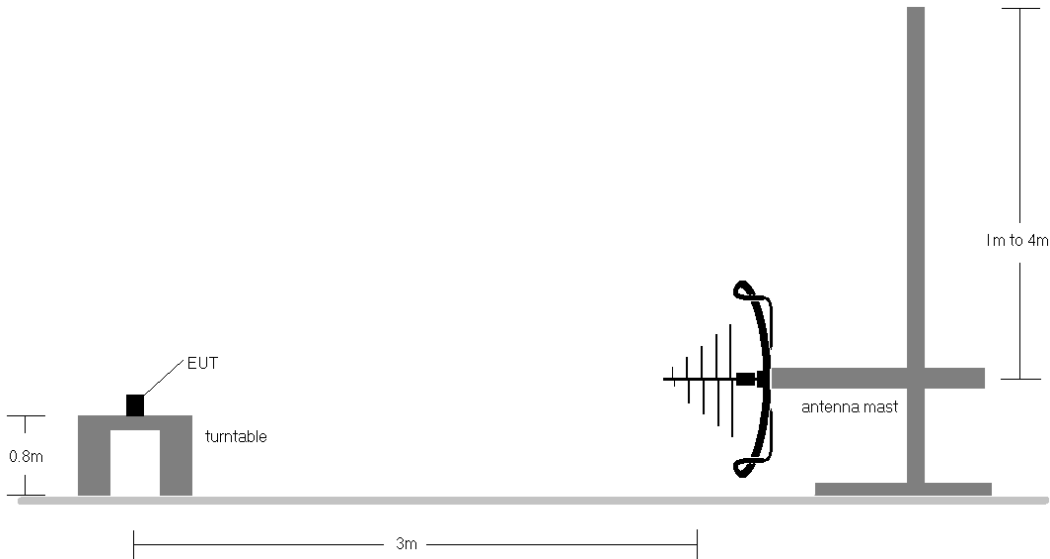
### Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

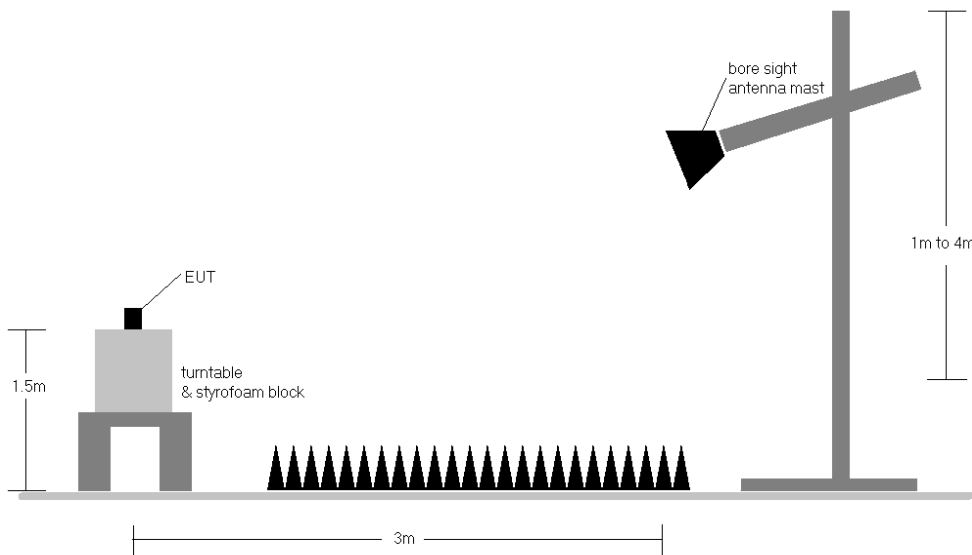
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 145 of 178                   |

**Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. Test Instrument & Measurement Setup < 1GHz**



**Figure 7-6. Test Instrument & Measurement Setup >1 GHz**

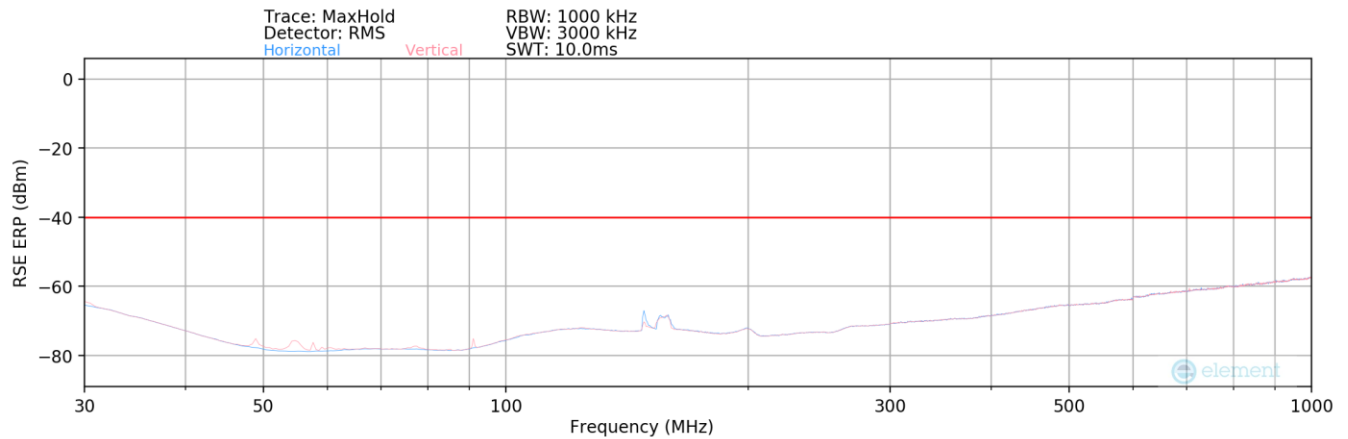
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 146 of 178                   |

## Test Notes

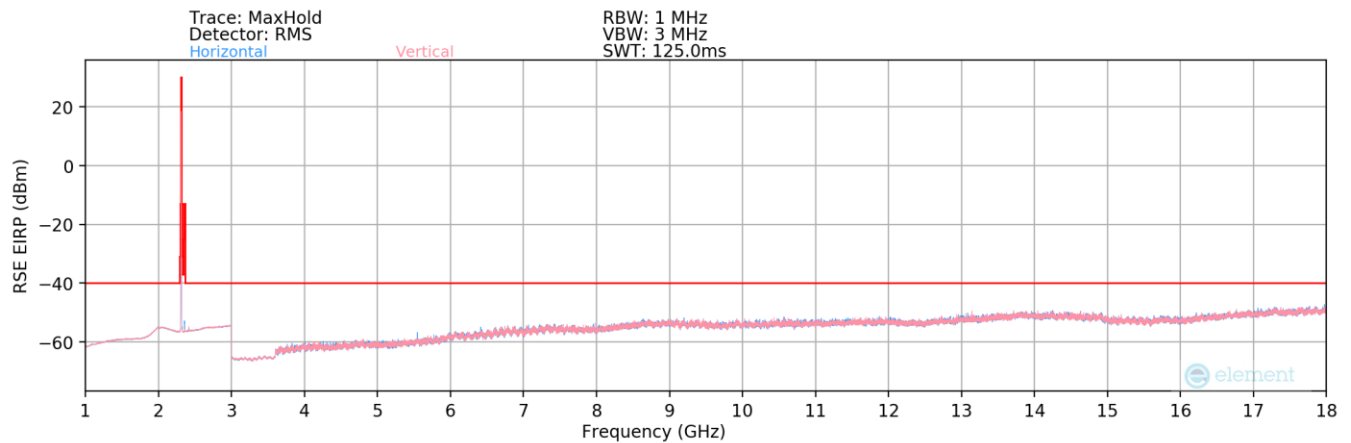
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested using a power supply.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 9) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 147 of 178                   |

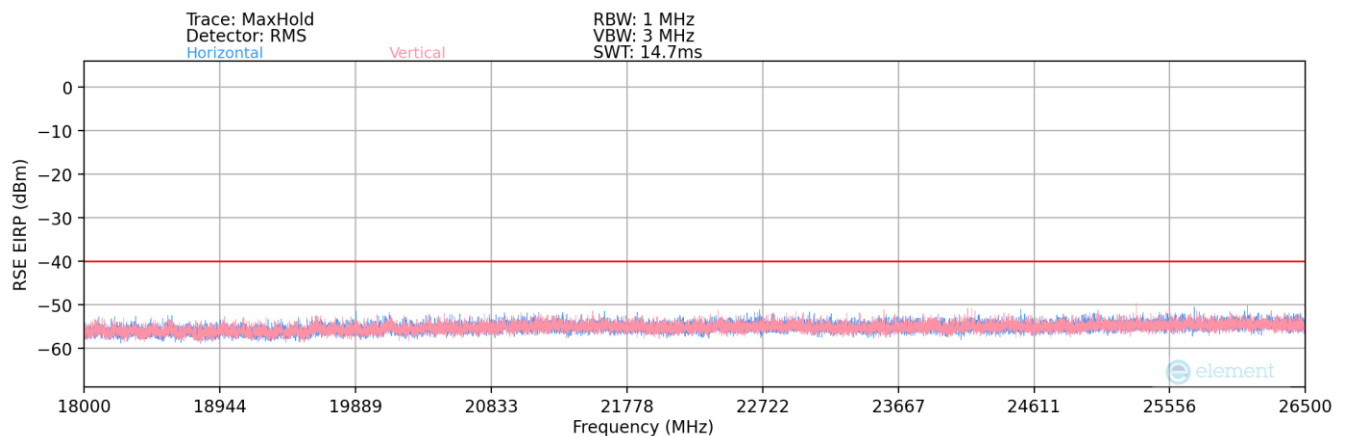
## LTE Band 30 – Ant1



Plot 7-187. Radiated Spurious Plot Below 1GHz (LTE Band 30 – Ant1)



Plot 7-188. Radiated Spurious Plot 1GHz-18GHz (LTE Band 30 – Ant1)



Plot 7-189. Radiated Spurious Plot 18GHz-26.5GHz (LTE Band 30 – Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 148 of 178                   |

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 2310.0 |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 48.00           | V               | -                   | -                          | -91.99               | 15.44       | 30.45                   | -66.96                            | -40.00      | -26.96      |
| 55.00           | V               | -                   | -                          | -91.75               | 14.07       | 29.32                   | -68.08                            | -40.00      | -28.08      |
| 92.00           | V               | -                   | -                          | -91.89               | 15.17       | 30.28                   | -67.13                            | -40.00      | -27.13      |
| 175.00          | V               | -                   | -                          | -91.83               | 18.91       | 34.08                   | -63.32                            | -40.00      | -23.32      |

Table 7-35. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant1)

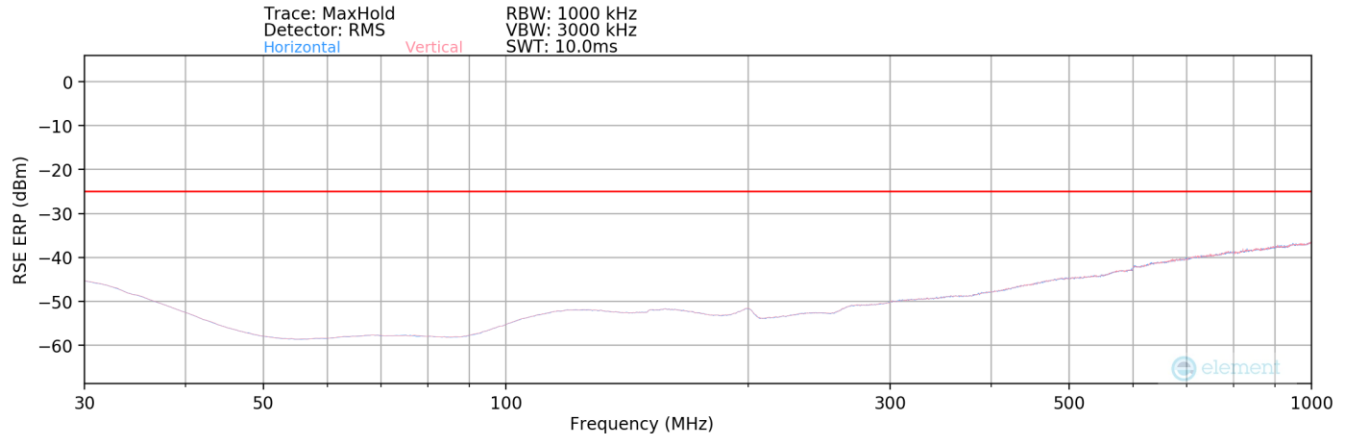
|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 2310.0 |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 4620.00         | V               | 149                 | 279                        | -76.38               | 2.76        | 33.38                   | -61.87                             | -40.00      | -21.87      |
| 6930.00         | V               | -                   | -                          | -80.14               | 8.37        | 35.23                   | -60.02                             | -40.00      | -20.02      |
| 9240.00         | V               | -                   | -                          | -80.60               | 11.10       | 37.50                   | -57.76                             | -40.00      | -17.76      |
| 11550.00        | V               | -                   | -                          | -81.82               | 13.21       | 38.39                   | -56.87                             | -40.00      | -16.87      |

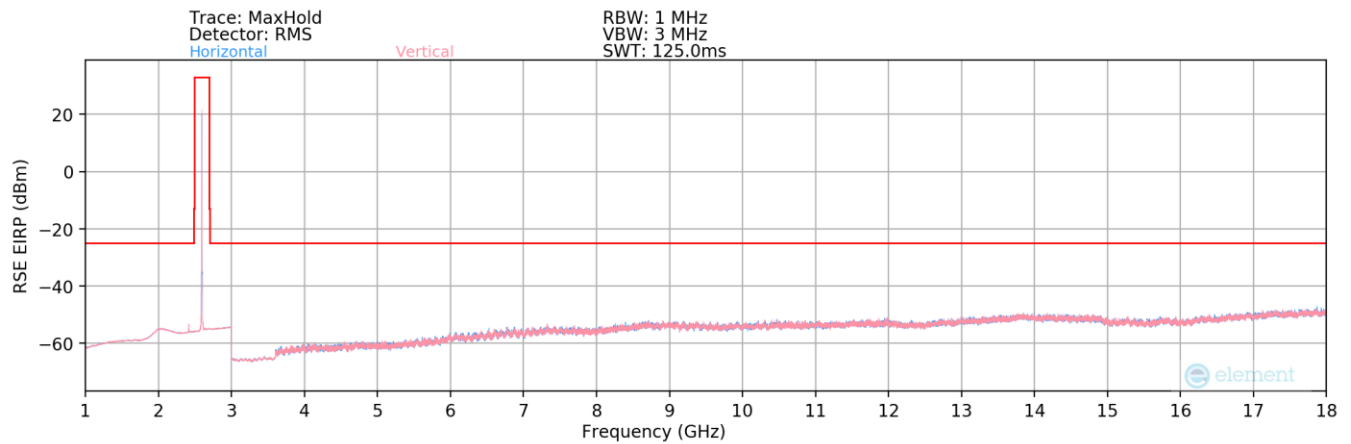
Table 7-36. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 149 of 178                   |

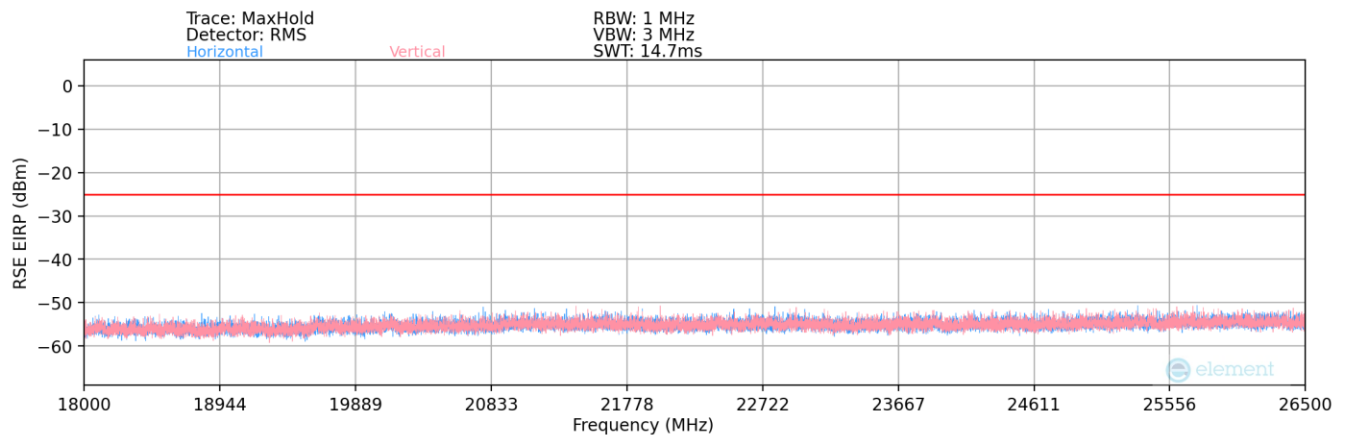
## LTE Band 41(PC2) – Ant1



Plot 7-190. Radiated Spurious Plot Below 1GHz (LTE Band 41(PC2) – Ant1)



Plot 7-191. Radiated Spurious Plot 1GHz-18GHz (LTE Band 41(PC2) – Ant1)



Plot 7-192. Radiated Spurious Plot 18GHz-26.5GHz (LTE Band 41(PC2) – Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 27 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-04-R3.C3K | Test Dates:<br>12/3/2024 - 2/14/2025 | EUT Type:<br>Full Modular | Page 150 of 178                   |