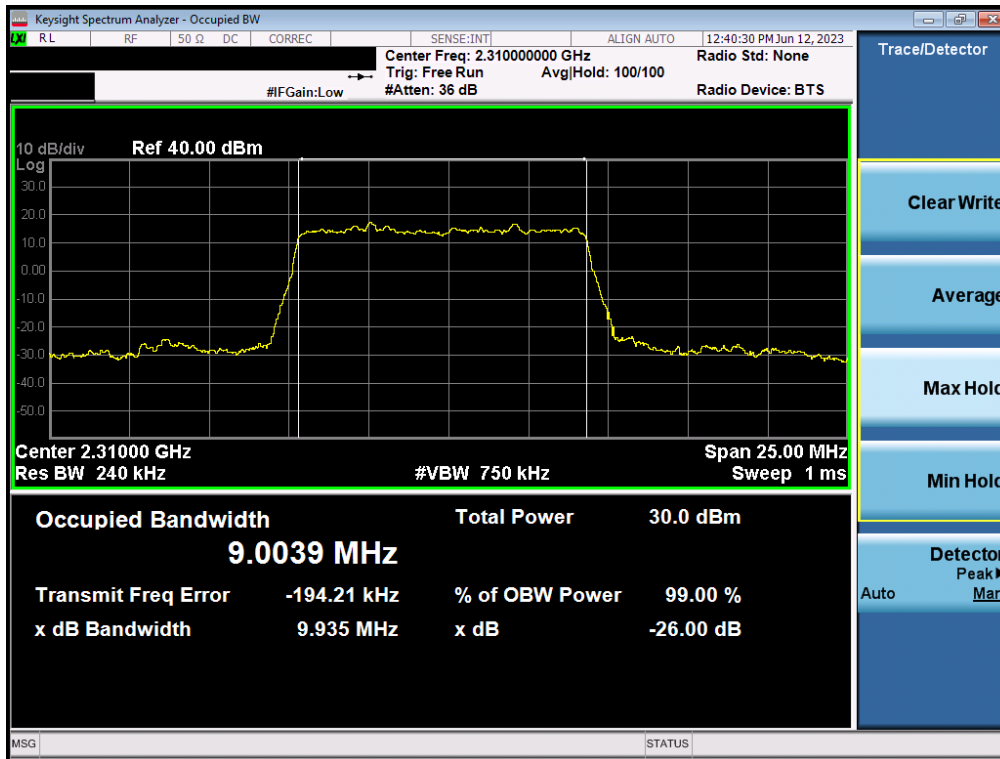
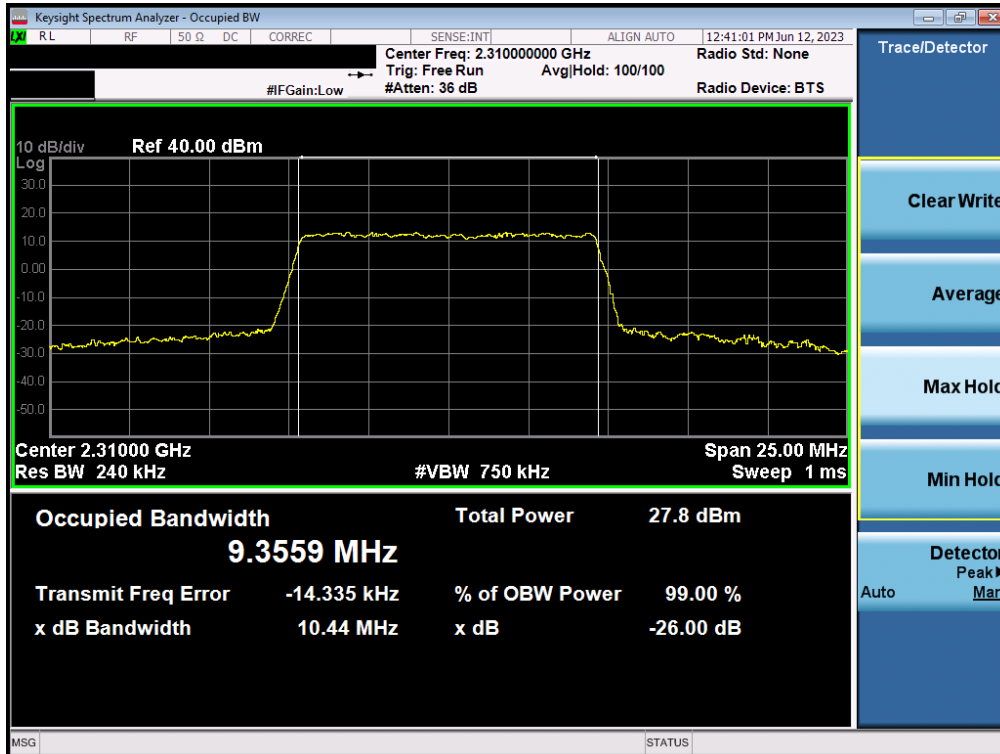


## NR Band n30 – Ant2

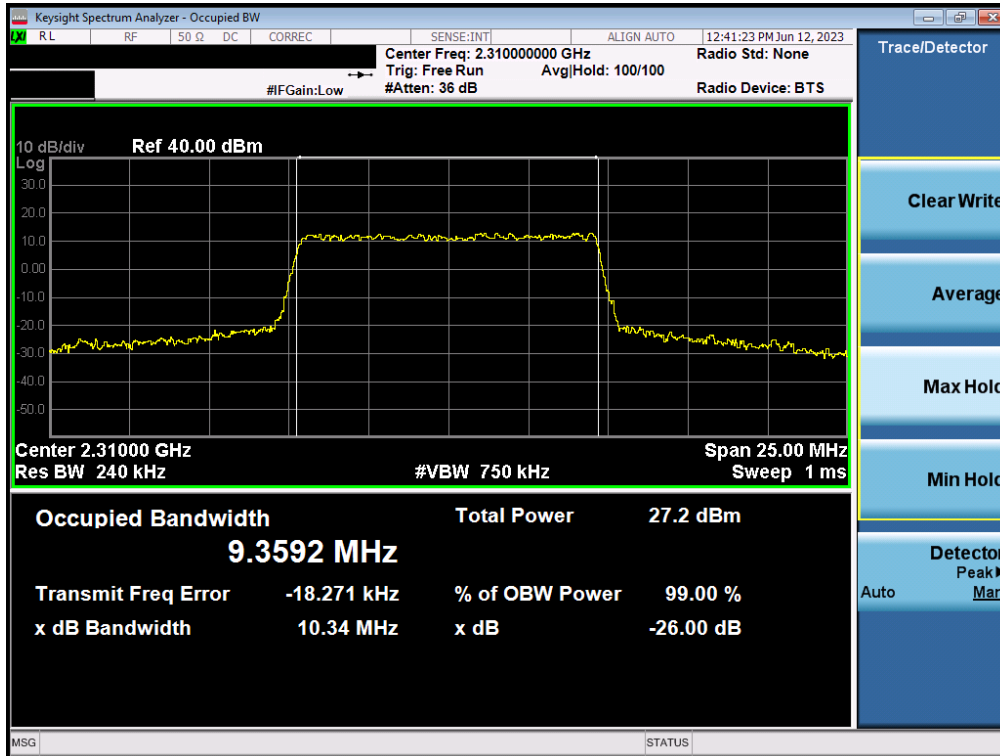


Plot 7-106. Occupied Bandwidth Plot (NR Band n30 - 10MHz  $\pi/2$  BPSK - Full RB - Ant2)

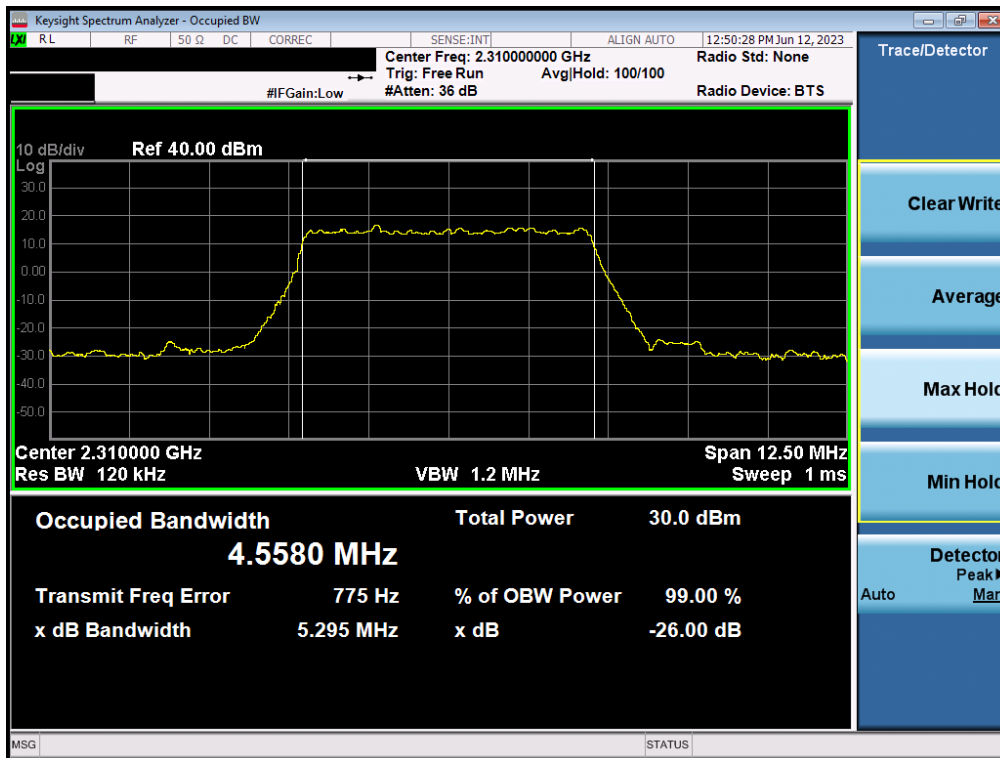


Plot 7-107. Occupied Bandwidth Plot (NR Band n30 - 10MHz QPSK - Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 71 of 214                    |

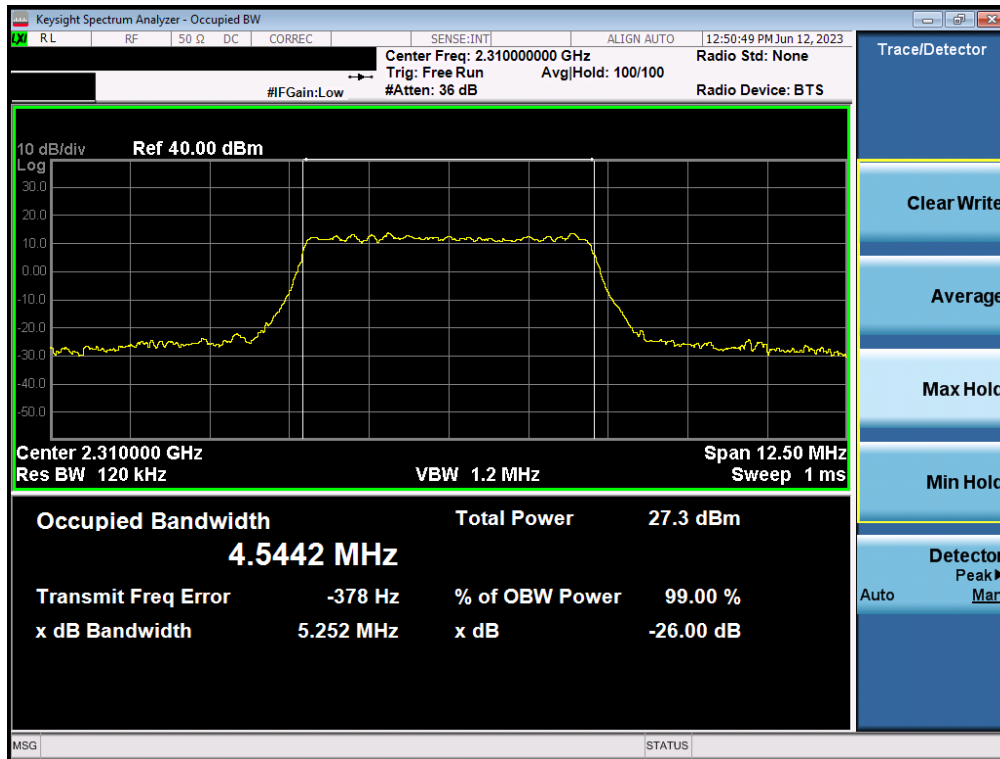


Plot 7-108. Occupied Bandwidth Plot (NR Band n30 - 10MHz 16-QAM - Full RB - Ant2)

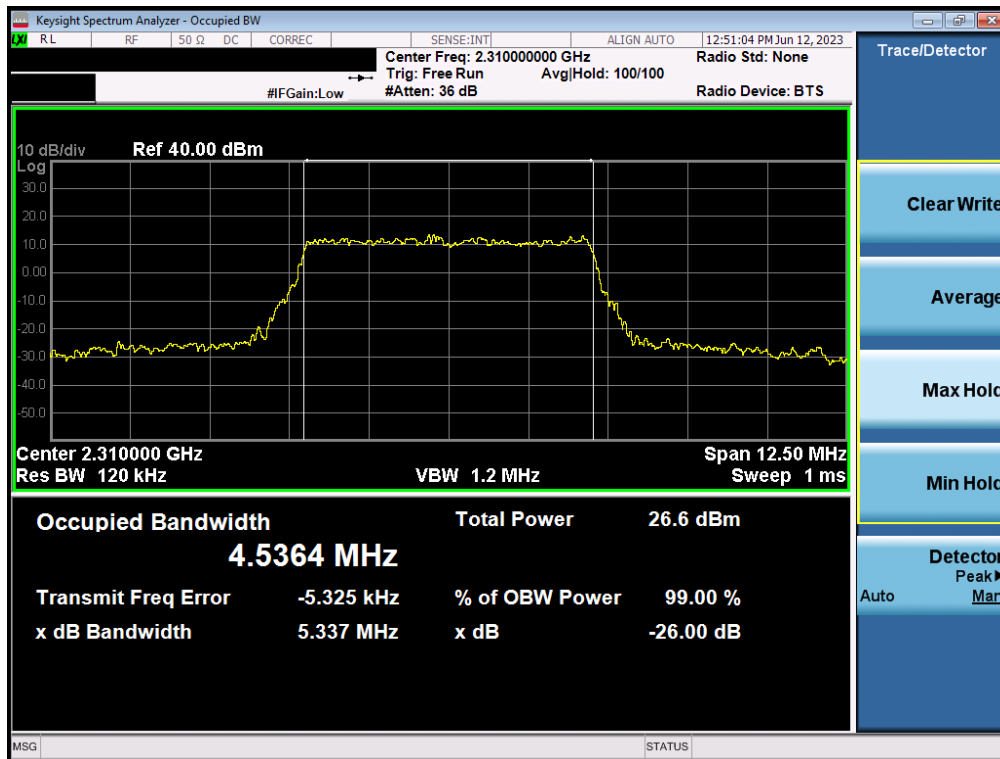


Plot 7-109. Occupied Bandwidth Plot (NR Band n30 - 5MHz  $\pi/2$  BPSK - Full RB - Ant2)

| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 72 of 214                    |



Plot 7-110. Occupied Bandwidth Plot (NR Band n30 - 5MHz QPSK - Full RB - Ant2)



Plot 7-111. Occupied Bandwidth Plot (NR Band n30 - 5MHz 16-QAM - Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 73 of 214                    |

## 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 <2288MHz and >2365MHz is  $70 + 10 \log_{10}(P_{[Watts]})$ .***

***For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is  $55 + 10 \log_{10}(P_{[Watts]})$ .***

### Test Procedure Used

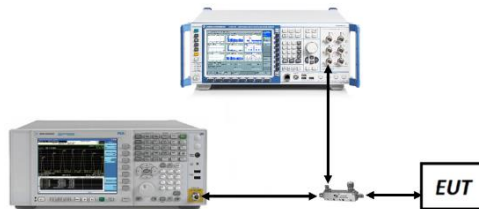
ANSI C63.26-2015 – Section 5.7.4

### 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**

### Test Notes

1. Per Part 27, RSS-195 and RSS-199, 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.

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | <b>PART 27 MEASUREMENT REPORT</b>    |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 74 of 214                    |

| Mode             | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B30          | 10MHz     | Mid     | 30.0 - 2288.0     | -48.31      | -40         | -8.30       |
|                  |           | Mid     | 2365.0 - 15000.0  | -52.29      | -40         | -12.29      |
|                  |           | Mid     | 15000.0 - 27000.0 | -55.22      | -40         | -15.22      |
| LTE-B7           | 20MHz     | Low     | 30.0 - 2475.0     | -47.92      | -25         | -22.92      |
|                  |           | Low     | 2570.0 - 15000.0  | -42.15      | -25         | -17.15      |
|                  |           | Low     | 15000.0 - 27000.0 | -54.90      | -25         | -29.90      |
|                  |           | Mid     | 30.0 - 2500.0     | -47.62      | -25         | -22.62      |
|                  |           | Mid     | 2570.0 - 15000.0  | -41.99      | -25         | -16.99      |
|                  |           | Mid     | 15000.0 - 27000.0 | -54.90      | -25         | -29.90      |
|                  |           | High    | 30.0 - 2500.0     | -47.59      | -25         | -22.59      |
|                  |           | High    | 2570.0 - 15000.0  | -42.13      | -25         | -17.13      |
| LTE-B41 PC2      | 20MHz     | Low     | 30.0 - 2475.0     | -38.33      | -25         | -13.33      |
|                  |           | Low     | 2690.0 - 15000.0  | -33.70      | -25         | -8.70       |
|                  |           | Low     | 15000.0 - 27000.0 | -47.93      | -25         | -22.93      |
|                  |           | Mid     | 30.0 - 2500.0     | -39.00      | -25         | -14.00      |
|                  |           | Mid     | 2690.0 - 15000.0  | -33.39      | -25         | -8.39       |
|                  |           | Mid     | 15000.0 - 27000.0 | -46.57      | -25         | -21.57      |
|                  |           | High    | 30.0 - 2500.0     | -39.76      | -25         | -14.76      |
|                  |           | High    | 2690.0 - 15000.0  | -33.80      | -25         | -8.80       |
| LTE-B41 PC3      | 20MHz     | Low     | 30.0 - 2475.0     | -39.47      | -25         | -14.47      |
|                  |           | Low     | 2690.0 - 15000.0  | -34.17      | -25         | -9.17       |
|                  |           | Low     | 15000.0 - 27000.0 | -47.71      | -25         | -22.71      |
|                  |           | Mid     | 30.0 - 2500.0     | -39.06      | -25         | -14.06      |
|                  |           | Mid     | 2690.0 - 15000.0  | -34.23      | -25         | -9.23       |
|                  |           | Mid     | 15000.0 - 27000.0 | -47.31      | -25         | -22.31      |
|                  |           | High    | 30.0 - 2500.0     | -39.45      | -25         | -14.45      |
|                  |           | High    | 2690.0 - 15000.0  | -33.72      | -25         | -8.72       |
| LTE-B41 PC2 ULCA | 20+20MHz  | Low     | 30.0 - 2475.0     | -42.64      | -25         | -17.64      |
|                  |           | Low     | 2496.0 - 2690.0   | 17.62       | -           | -           |
|                  |           | Low     | 2690.0 - 15000.0  | -36.97      | -25         | -11.97      |
|                  |           | Low     | 15000.0 - 27000.0 | -51.35      | -25         | -26.35      |
|                  |           | Mid     | 30.0 - 2496.0     | -42.53      | -25         | -17.53      |
|                  |           | Mid     | 2496.0 - 2690.0   | 18.43       | -           | -           |
|                  |           | Mid     | 2690.0 - 15000.0  | -37.32      | -25         | -12.32      |
|                  |           | Mid     | 15000.0 - 27000.0 | -51.05      | -25         | -26.05      |
|                  |           | High    | 30.0 - 2496.0     | -42.61      | -25         | -17.61      |
|                  |           | High    | 2496.0 - 2690.0   | 14.96       | -           | -           |
| LTE-B41 PC3 ULCA | 20+20MHz  | Low     | 30.0 - 2475.0     | -42.74      | -25         | -17.74      |
|                  |           | Low     | 2496.0 - 2690.0   | 17.44       | -           | -           |
|                  |           | Low     | 2690.0 - 15000.0  | -37.53      | -25         | -12.53      |
|                  |           | Low     | 15000.0 - 27000.0 | -51.34      | -25         | -26.34      |
|                  |           | Mid     | 30.0 - 2496.0     | -42.53      | -25         | -17.53      |
|                  |           | Mid     | 2496.0 - 2690.0   | 16.70       | -           | -           |
|                  |           | Mid     | 2690.0 - 15000.0  | -37.80      | -25         | -12.80      |
|                  |           | Mid     | 15000.0 - 27000.0 | -50.91      | -25         | -25.91      |
|                  |           | High    | 30.0 - 2496.0     | -41.52      | -25         | -16.52      |
|                  |           | High    | 2496.0 - 2690.0   | 15.87       | 116         | -           |
|                  |           | High    | 2690.0 - 15000.0  | -37.41      | -25         | -12.41      |
|                  |           | High    | 15000.0 - 27000.0 | -51.78      | -25         | -26.78      |

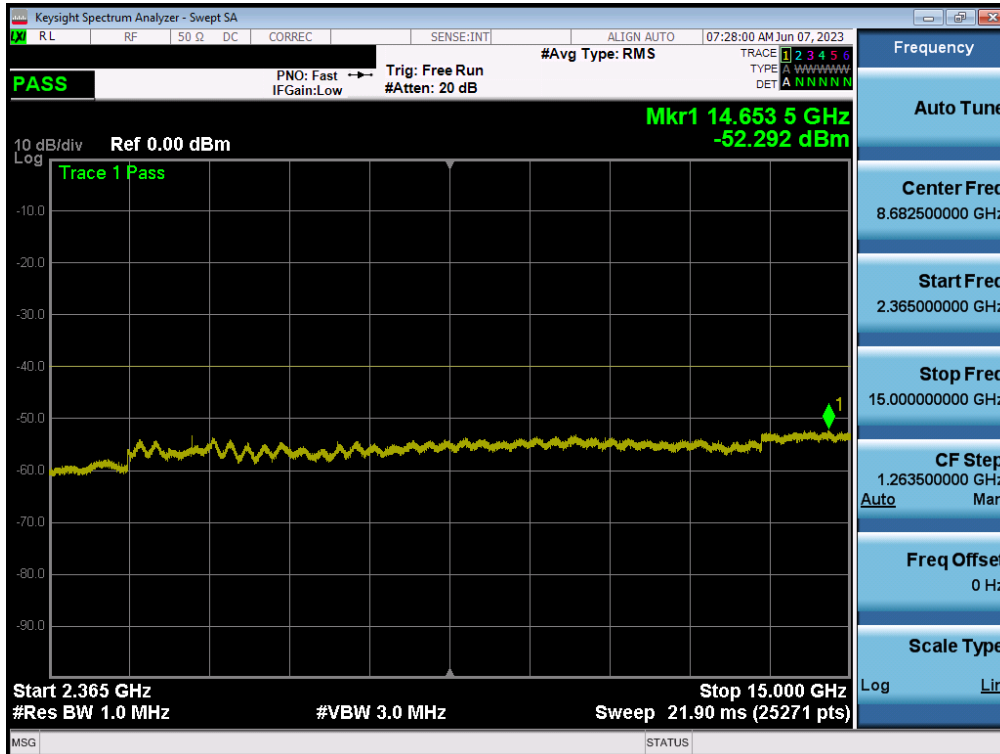
Table 7-112. Spurious and Harmonic Emissions Test Results (Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 75 of 214                    |

# LTE Band 30 – Ant1

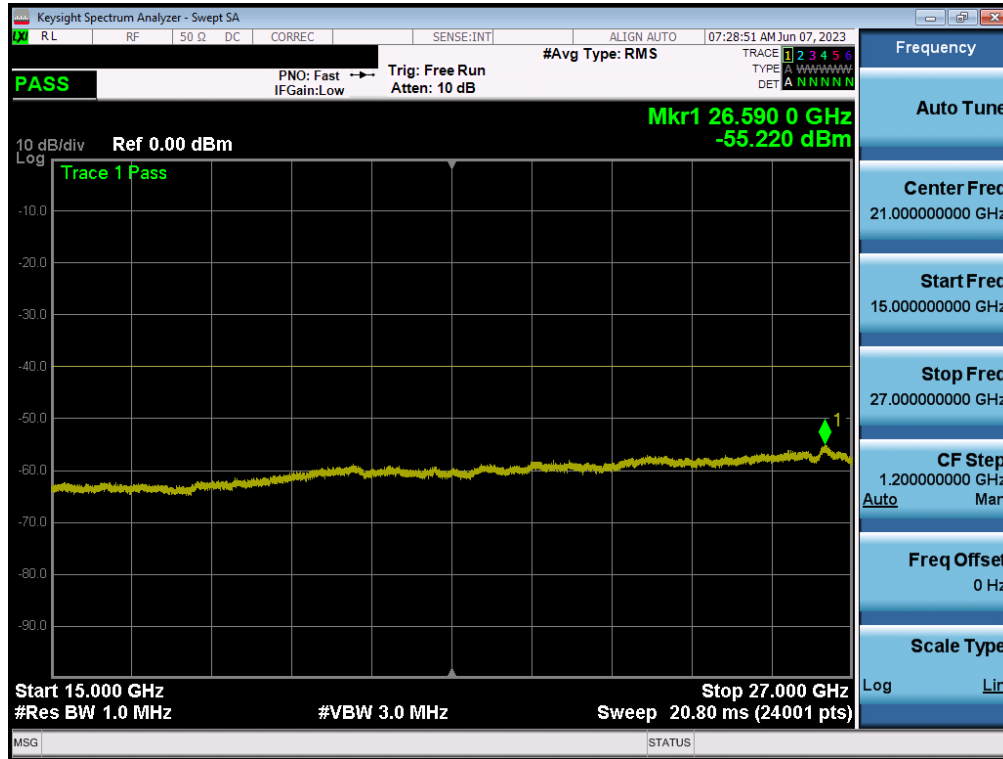


Plot 7-113. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant1)



Plot 7-114. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 76 of 214                    |

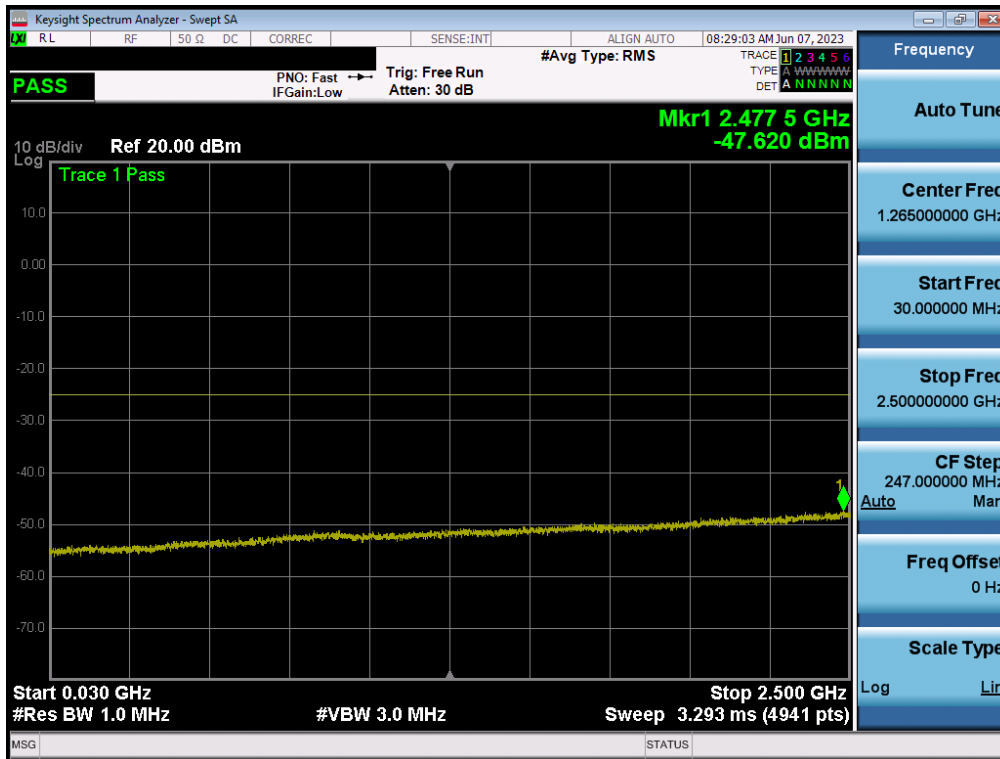


Plot 7-115. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant1)

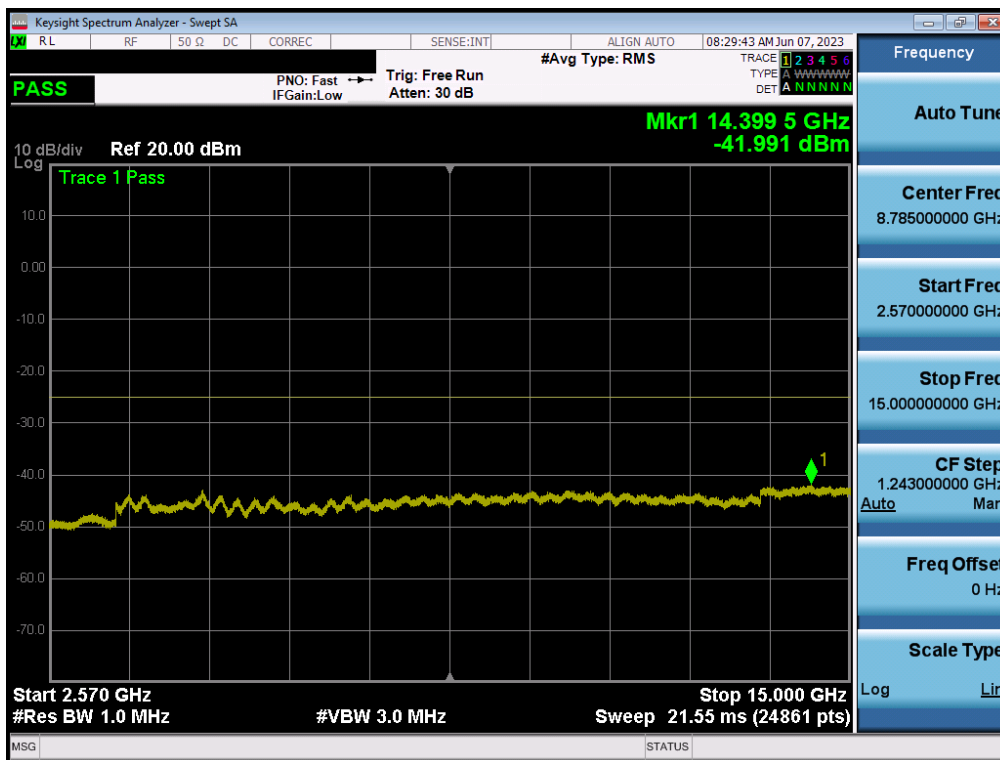
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 77 of 214                    |



### LTE Band 7 – Ant1



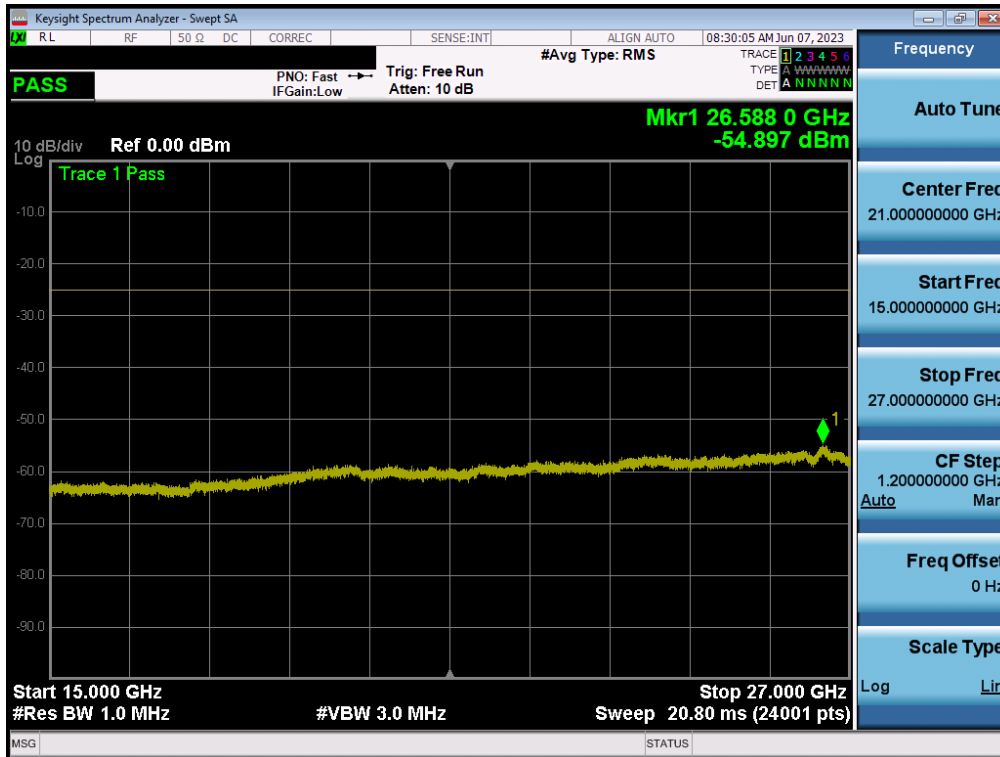
Plot 7-116. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)



Plot 7-117. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 78 of 214                    |

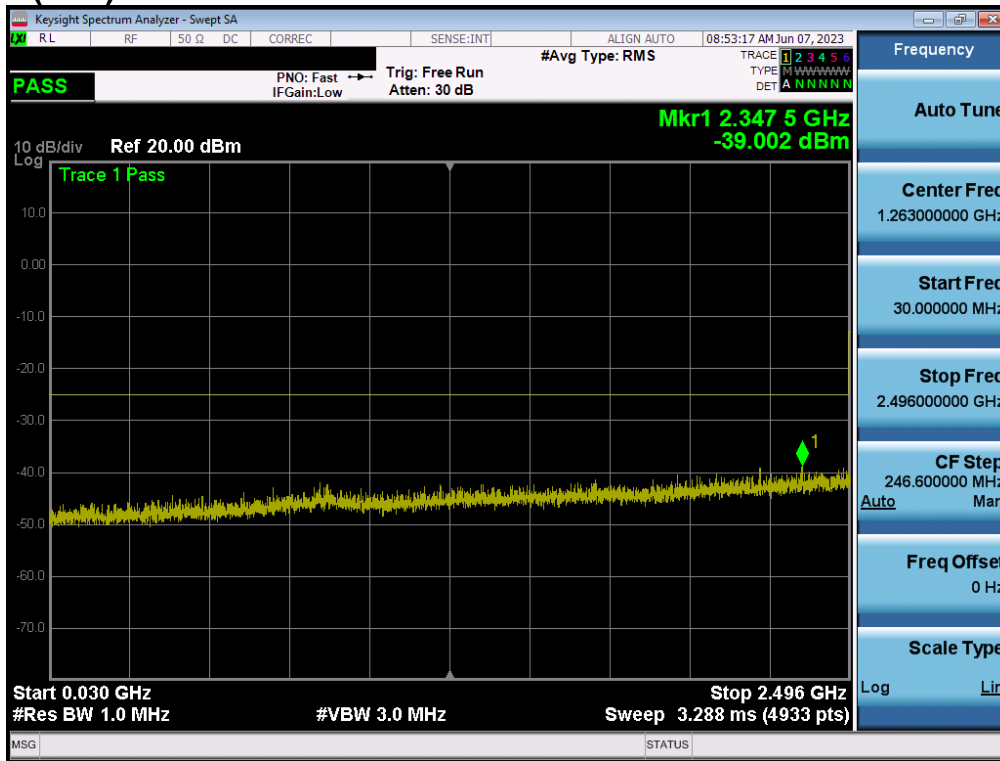




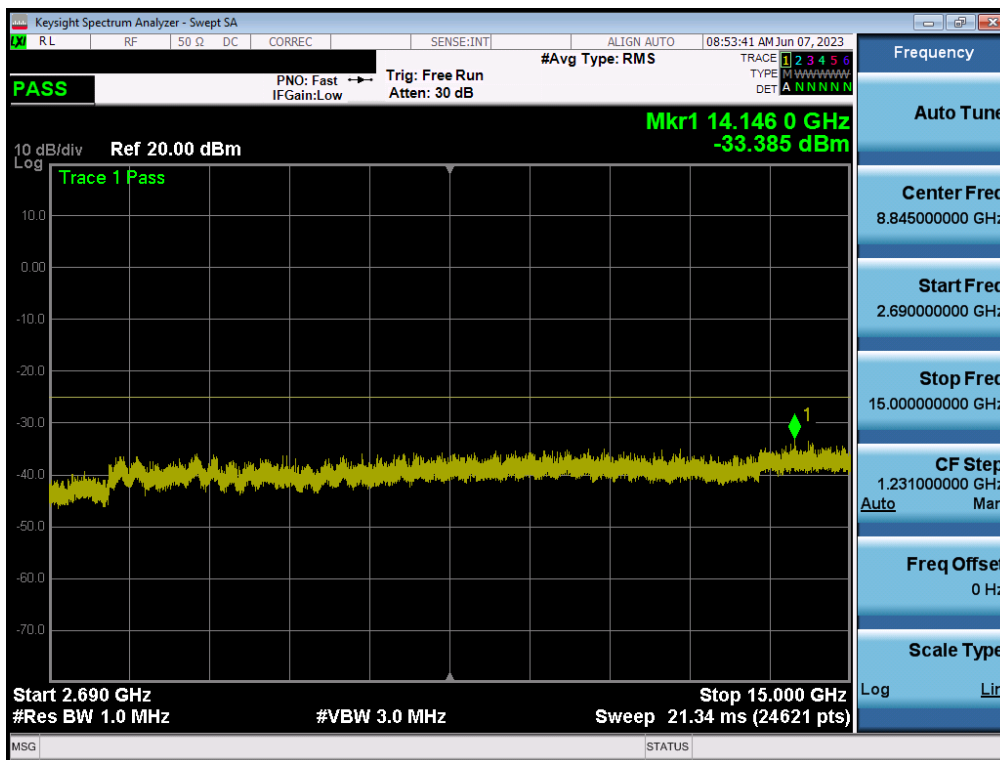
Plot 7-118. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 79 of 214                    |

### LTE Band 41(PC2) – Ant1

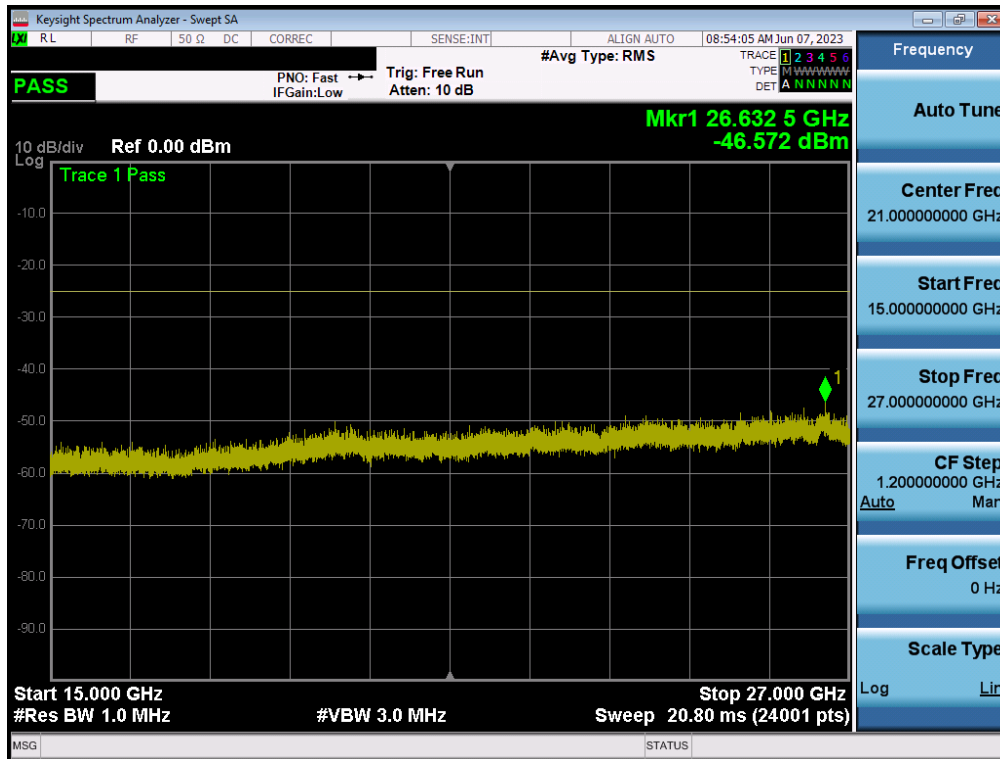


Plot 7-119. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)



Plot 7-120. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)

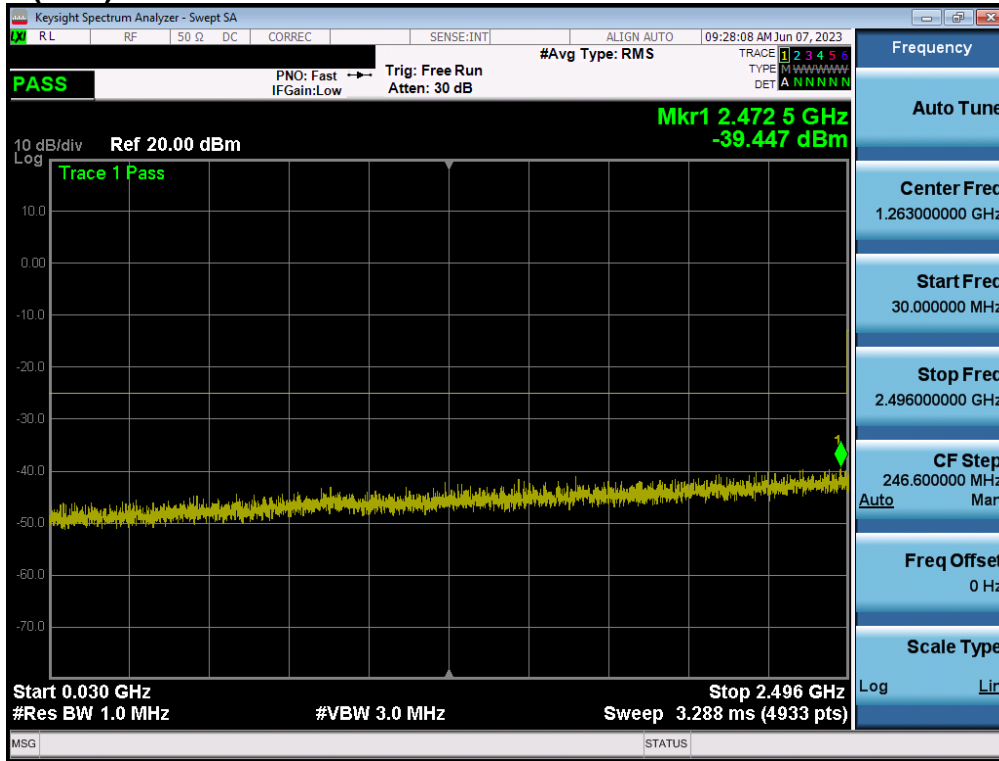
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 80 of 214                    |



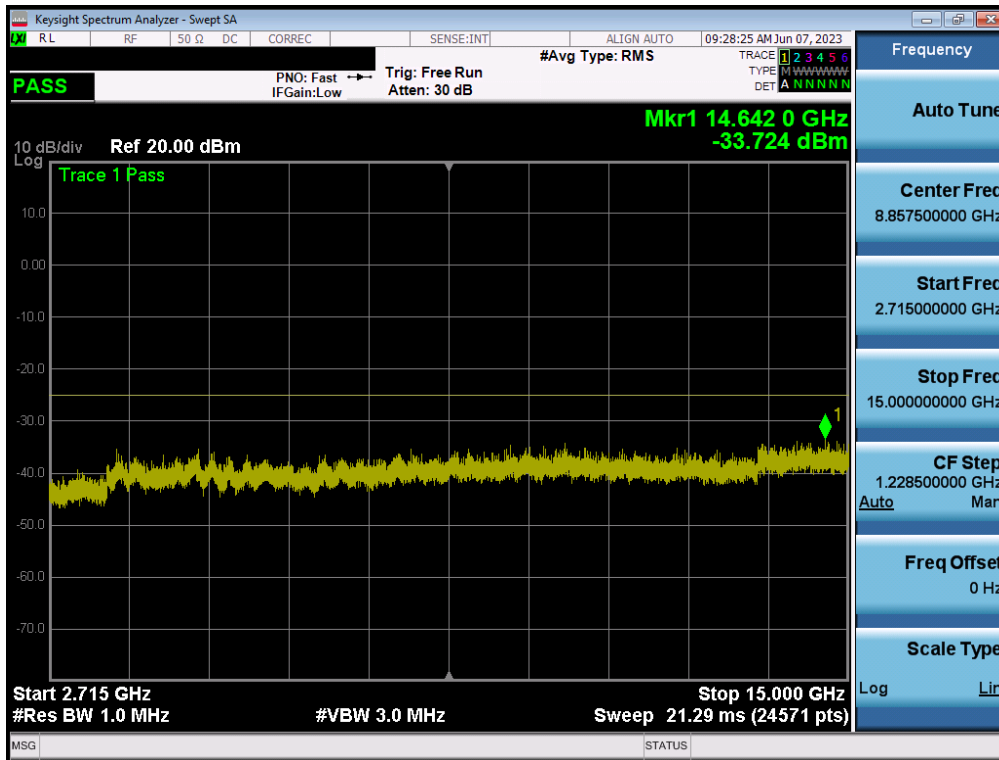
Plot 7-121. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 81 of 214                    |

### LTE Band 41(PC3)/38 – Ant1

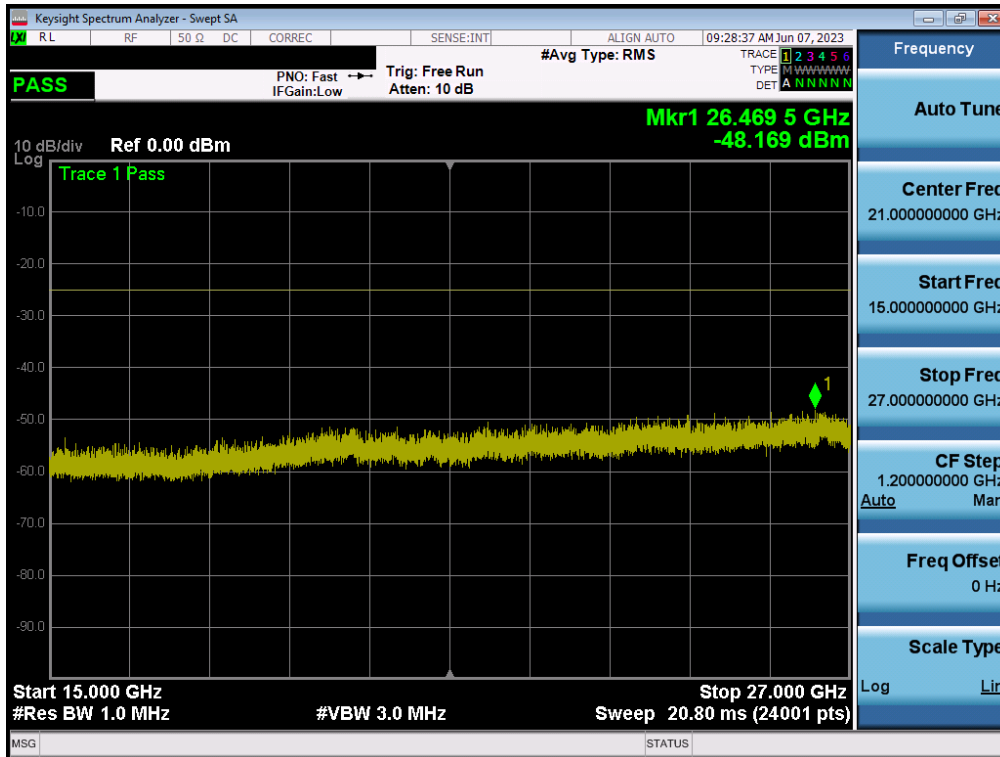


Plot 7-122. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)



Plot 7-123. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

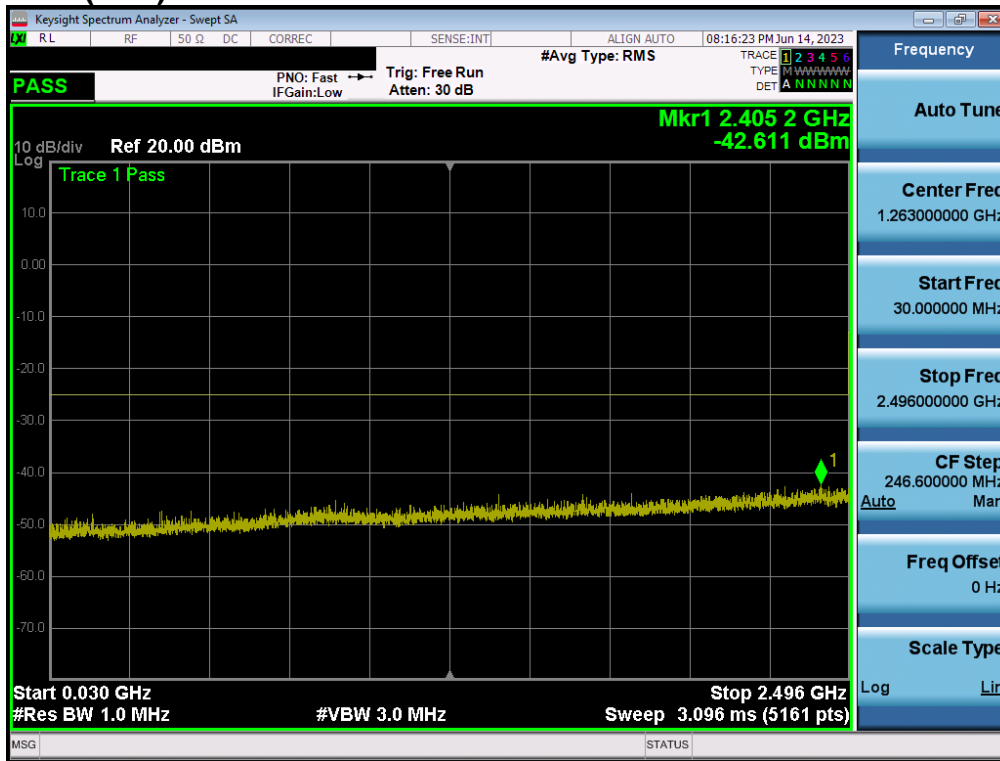
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 82 of 214                    |



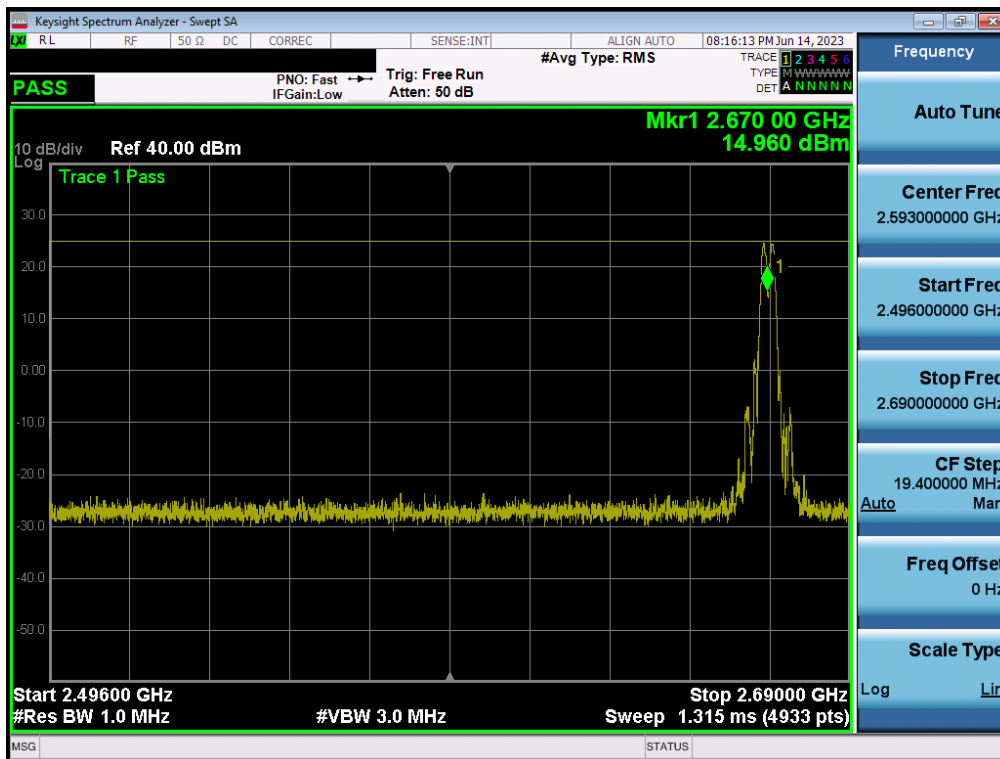
Plot 7-124. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 83 of 214                    |

# ULCA - LTE B41(PC2) – Ant1

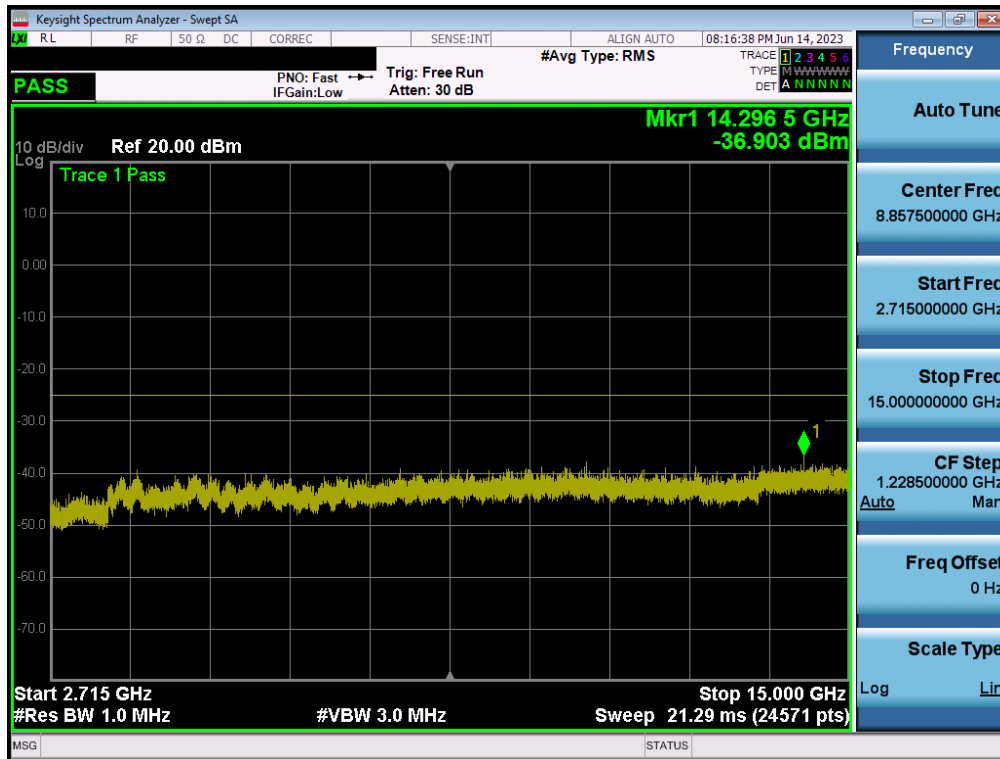


Plot 7-125. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

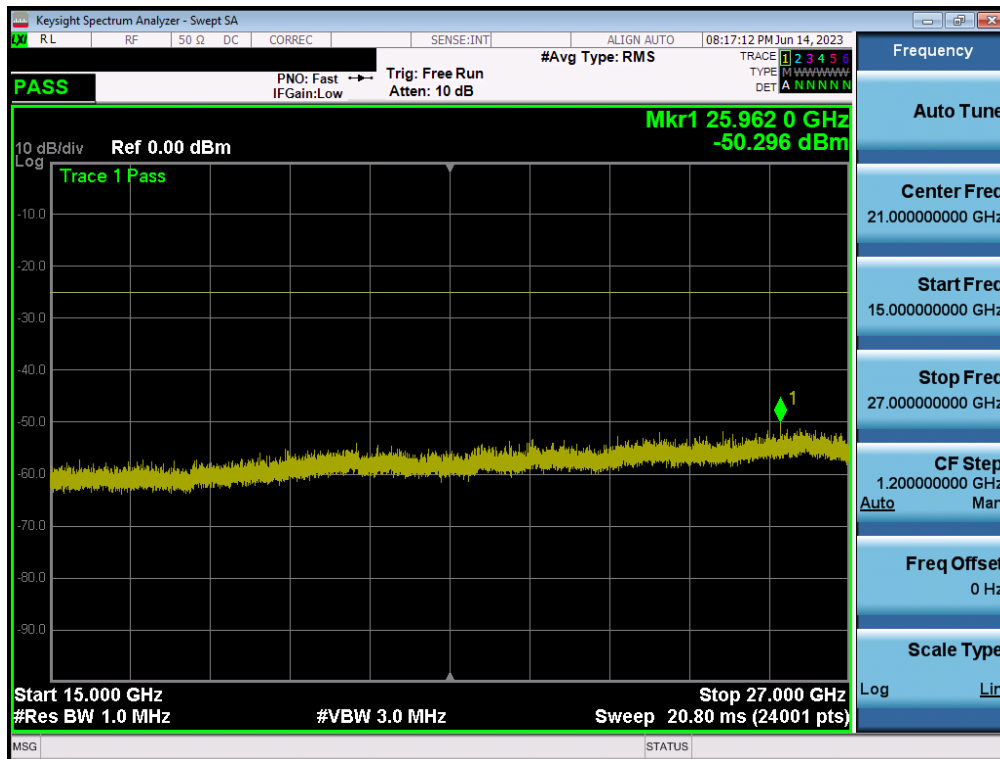


Plot 7-126. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 84 of 214                    |



Plot 7-127. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

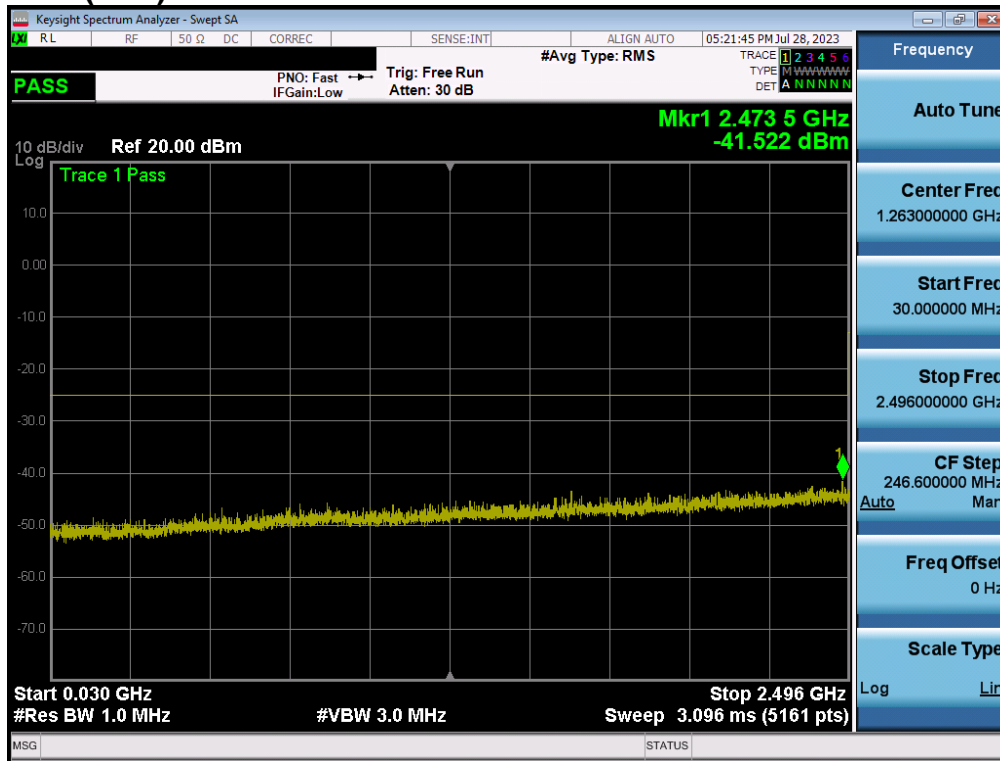


Plot 7-128. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

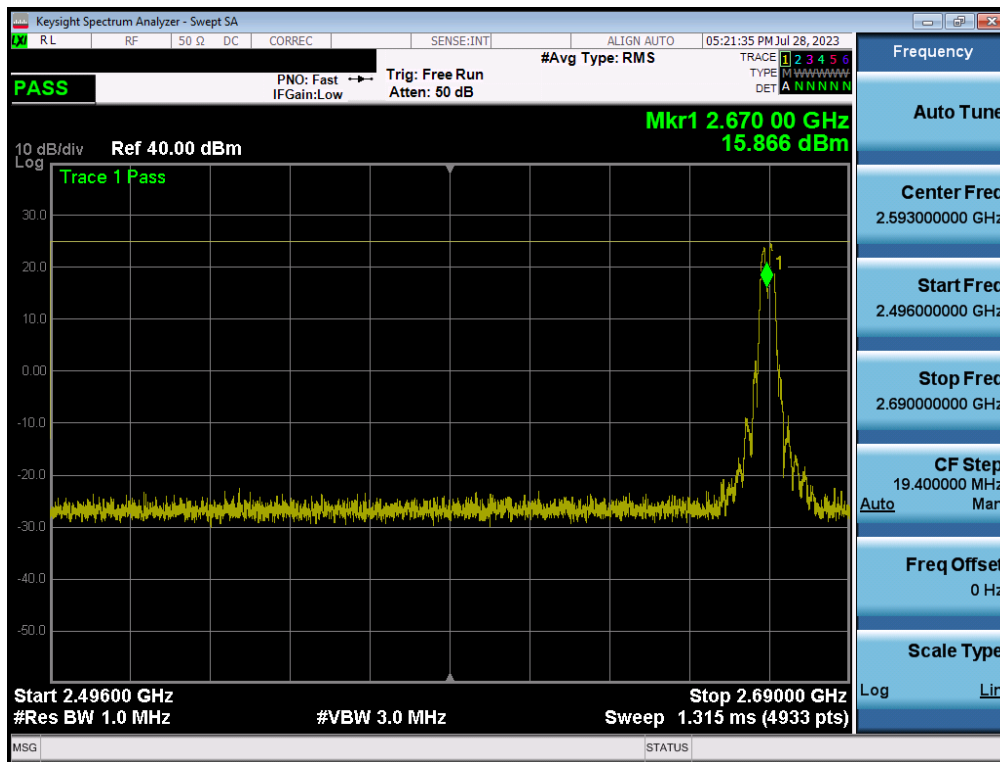
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 85 of 214                    |



# ULCA - LTE B41(PC3) – Ant1

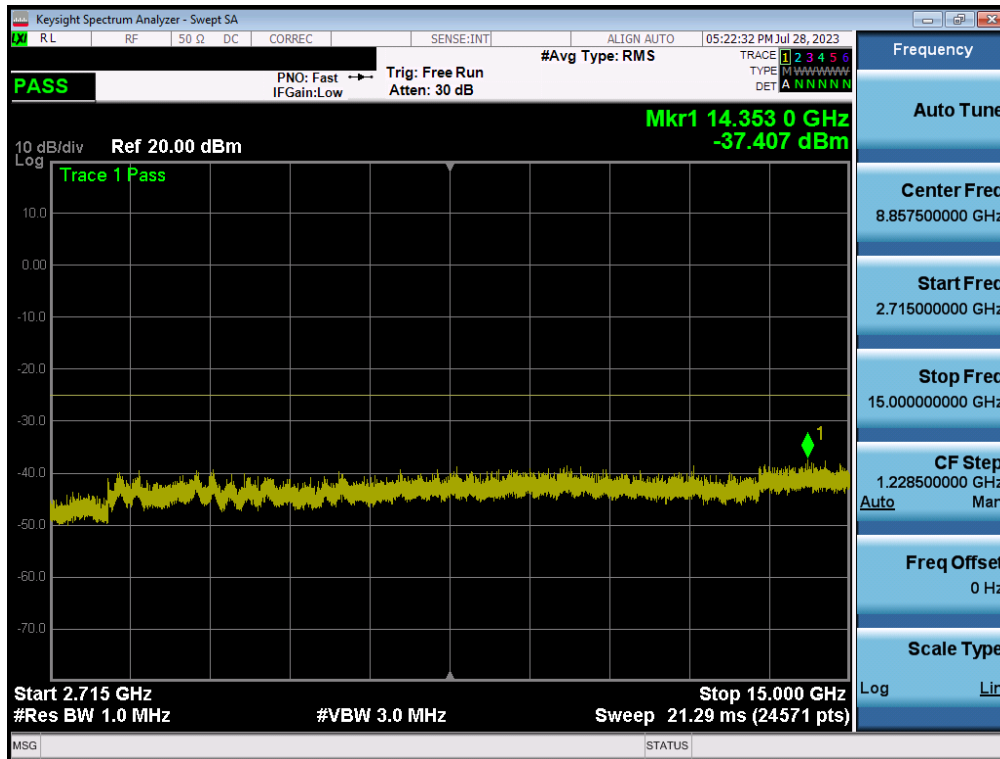


Plot 7-129. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

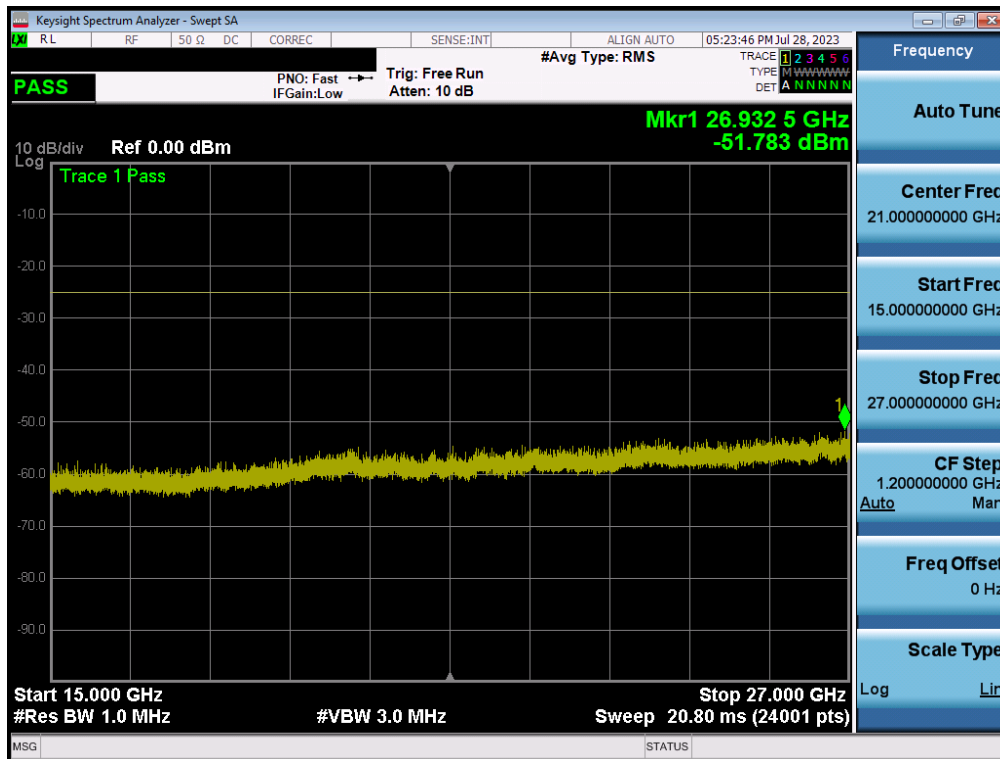


Plot 7-130. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 86 of 214                    |



Plot 7-131. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)



Plot 7-132. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant1)

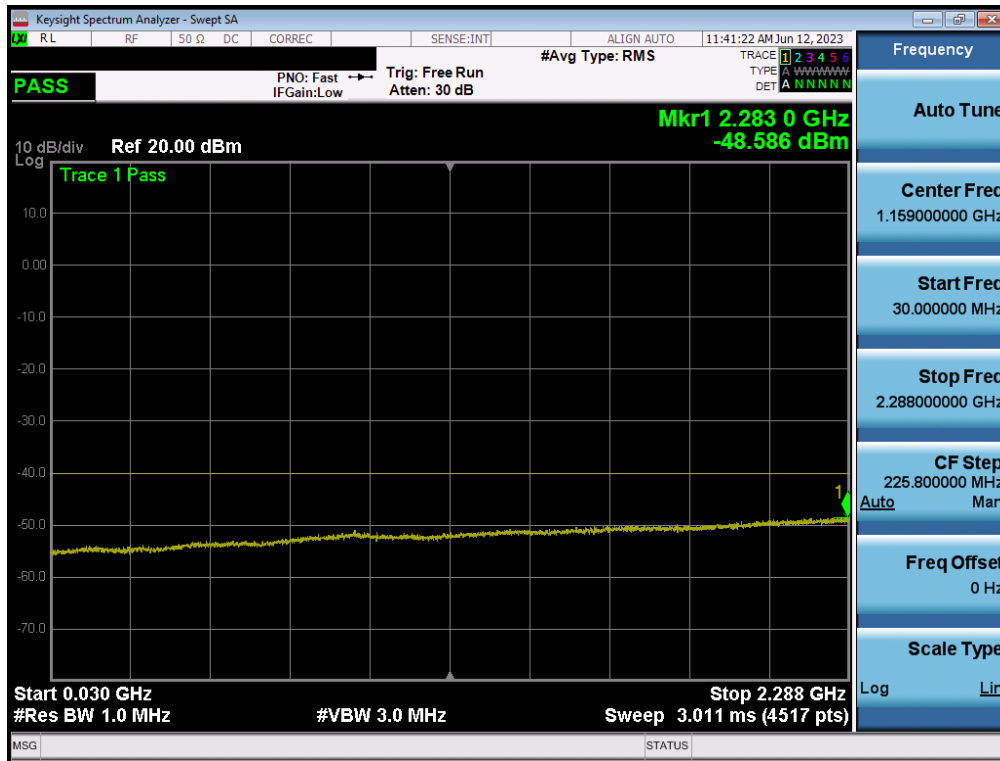
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 87 of 214                    |

| Mode          | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n30        | 10MHz     | Mid     | 30.0 - 2288.0     | -48.59      | -40         | -8.59       |
|               |           | Mid     | 2363.0 - 15000.0  | -52.22      | -40         | -12.22      |
|               |           | Mid     | 15000 - 27000.0   | -54.73      | -40         | -14.73      |
| NR-n41<br>PC2 | 100MHz    | Low     | 30.0 - 2470.0     | -39.67      | -25         | -14.66      |
|               |           | Low     | 2690.0 - 1500.0   | -33.68      | -25         | -8.68       |
|               |           | Low     | 15000.0 - 27000.0 | -46.86      | -25         | -21.86      |
|               |           | Mid     | 30.0 - 2470.0     | -39.23      | -25         | -14.23      |
|               |           | Mid     | 2690.0 - 1500.0   | -33.65      | -25         | -8.65       |
|               |           | Mid     | 15000.0 - 27000.0 | -47.94      | -25         | -22.94      |
|               |           | High    | 30.0 - 2470.0     | -38.44      | -25         | -13.44      |
|               |           | High    | 2690.0 - 1500.0   | -34.35      | -25         | -9.35       |
|               |           | High    | 15000.0 - 27000.0 | -47.81      | -25         | -22.81      |

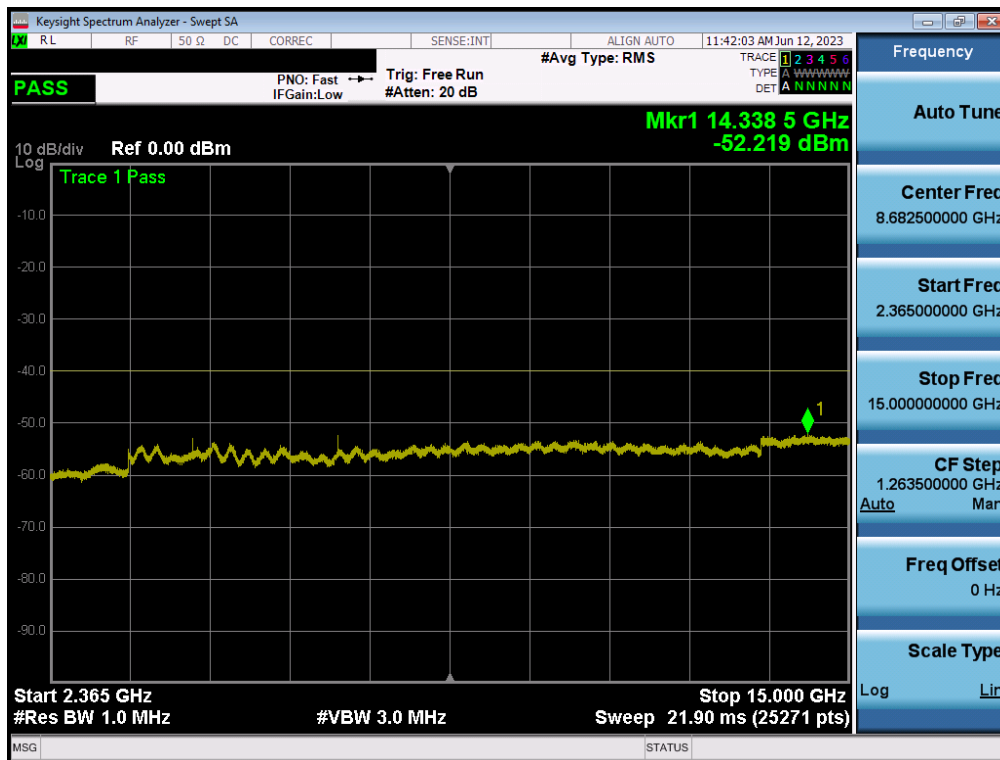
Table 7-133. Spurious and Harmonic Emissions Test Results (Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 88 of 214                    |

# NR Band n30 – Ant1

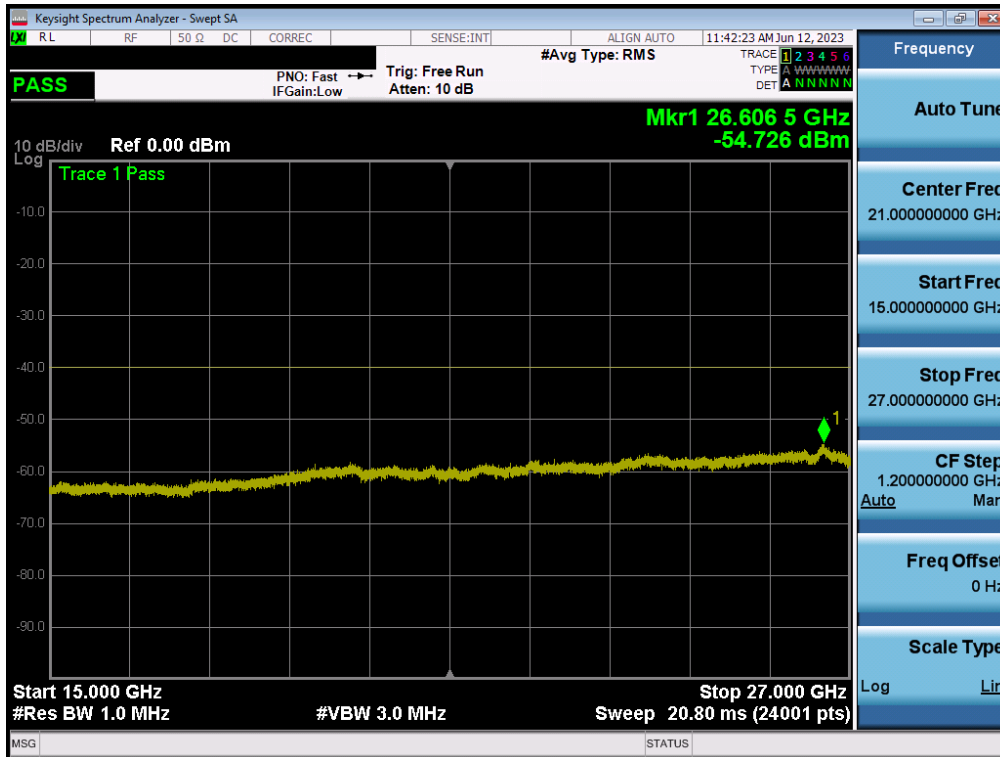


Plot 7-134. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant1)



Plot 7-135. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant1)

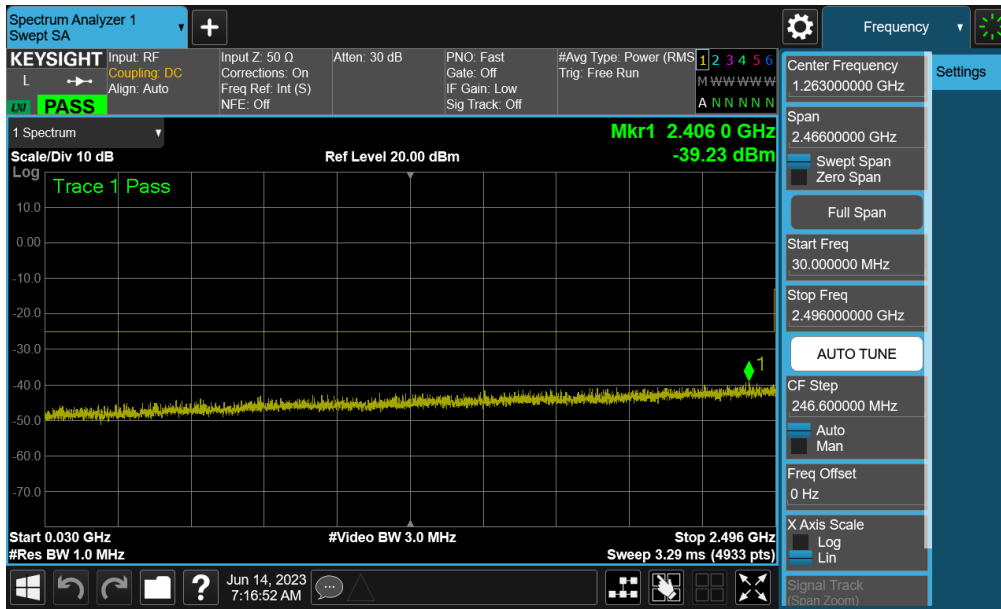
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 89 of 214                    |



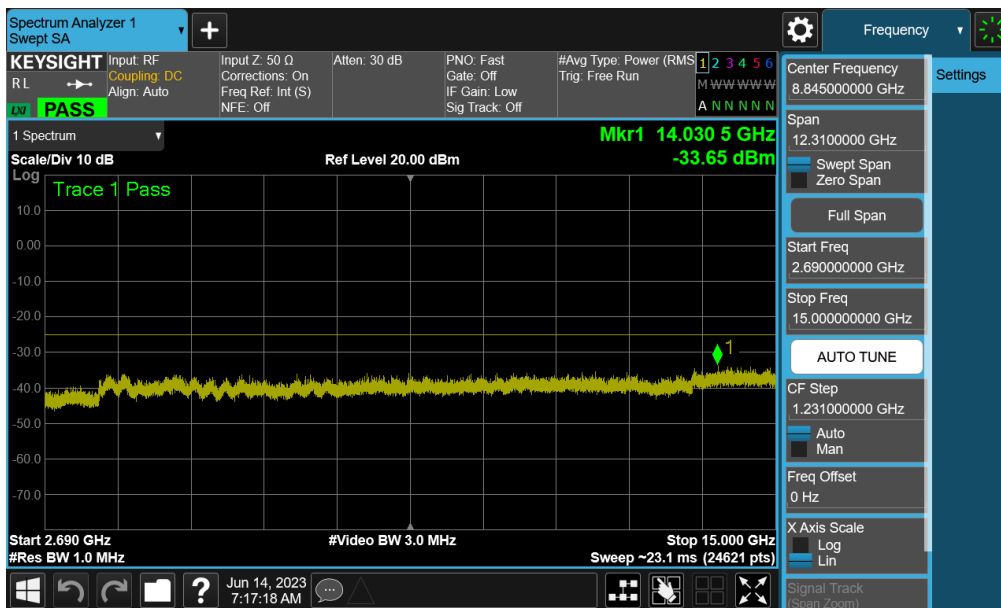
Plot 7-136. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 90 of 214                    |

# NR Band n41 – Ant1

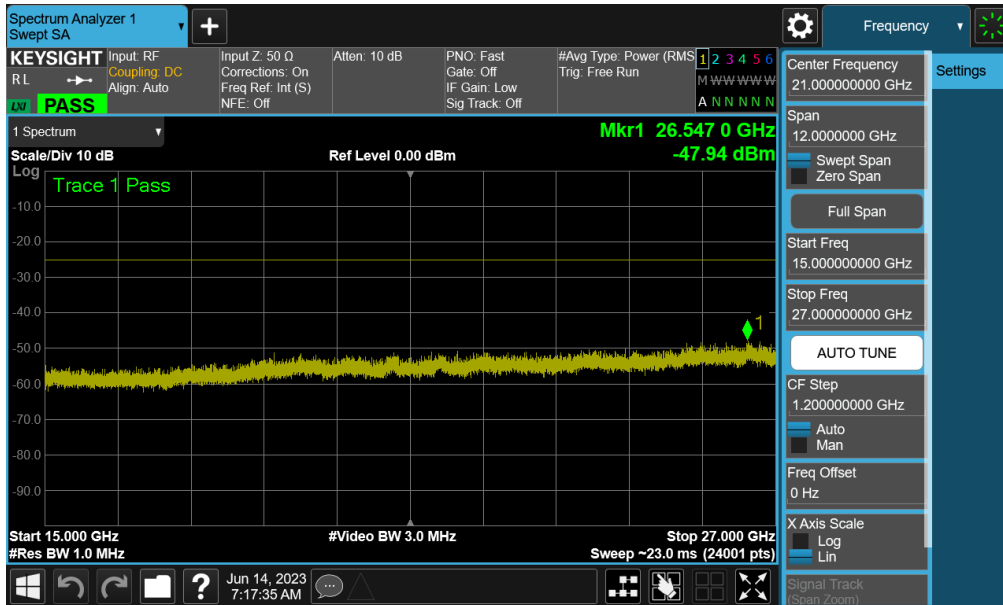


Plot 7-137. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)



Plot 7-138. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 91 of 214                    |



Plot 7-139. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 92 of 214                    |



| Mode             | Bandwidth         | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-------------------|---------|-------------------|-------------|-------------|-------------|
| LTE-B30          | 10MHz             | Mid     | 30.0 - 2288.0     | -48.21      | -40         | -8.21       |
|                  |                   | Mid     | 2365.0 - 15000.0  | -51.59      | -40         | -11.59      |
|                  |                   | Mid     | 15000.0 - 27000.0 | -53.82      | -40         | -13.82      |
| LTE-B7           | 20MHz             | Low     | 30.0 - 2500.0     | -47.17      | -25         | -22.17      |
|                  |                   | Low     | 2570.0 - 15000.0  | -41.48      | -25         | -16.48      |
|                  |                   | Low     | 15000.0 - 27000.0 | -54.67      | -25         | -29.67      |
|                  |                   | Mid     | 30.0 - 2500.0     | -46.86      | -25         | -21.86      |
|                  |                   | Mid     | 2570.0 - 15000.0  | -41.44      | -25         | -16.44      |
|                  |                   | Mid     | 15000.0 - 27000.0 | -53.99      | -25         | -28.99      |
|                  |                   | High    | 30.0 - 2500.0     | -47.43      | -25         | -22.43      |
|                  |                   | High    | 2570.0 - 15000.0  | -41.54      | -25         | -16.54      |
|                  |                   | High    | 15000.0 - 27000.0 | -54.57      | -25         | -29.57      |
| LTE-B41 PC2      | 20MHz             | Low     | 30.0 - 2475.0     | -42.69      | -25         | -17.69      |
|                  |                   | Low     | 2690.0 - 15000.0  | -36.31      | -25         | -11.31      |
|                  |                   | Low     | 15000.0 - 27000.0 | -50.96      | -25         | -25.96      |
|                  |                   | Mid     | 30.0 - 2500.0     | -41.63      | -25         | -16.63      |
|                  |                   | Mid     | 2690.0 - 15000.0  | -36.69      | -25         | -11.69      |
|                  |                   | Mid     | 15000.0 - 27000.0 | -51.46      | -25         | -26.46      |
|                  |                   | High    | 30.0 - 2500.0     | -42.49      | -25         | -17.49      |
|                  |                   | High    | 2690.0 - 15000.0  | -37.29      | -25         | -12.29      |
|                  |                   | High    | 15000.0 - 27000.0 | -50.11      | -25         | -25.11      |
| LTE-B41 PC3      | 20MHz             | Low     | 30.0 - 2475.0     | -42.83      | -25         | -17.83      |
|                  |                   | Low     | 2690.0 - 15000.0  | -36.74      | -25         | -11.74      |
|                  |                   | Low     | 15000.0 - 27000.0 | -51.17      | -25         | -26.17      |
|                  |                   | Mid     | 30.0 - 2500.0     | -42.08      | -25         | -17.08      |
|                  |                   | Mid     | 2690.0 - 15000.0  | -36.97      | -25         | -11.97      |
|                  |                   | Mid     | 15000.0 - 27000.0 | -49.55      | -25         | -24.55      |
|                  |                   | High    | 30.0 - 2500.0     | -43.35      | -25         | -18.35      |
|                  |                   | High    | 2690.0 - 15000.0  | -36.85      | -25         | -11.85      |
|                  |                   | High    | 15000.0 - 27000.0 | -50.60      | -25         | -25.60      |
| LTE-B41 PC2 ULCA | 20+20MHz          | Low     | 30.0 - 2475.0     | -42.63      | -25         | -17.63      |
|                  |                   | Low     | 2496.0 - 2690.0   | 15.10       | -           | -           |
|                  |                   | Low     | 2690.0 - 15000.0  | -37.14      | -25         | -12.14      |
|                  |                   | Low     | 15000.0 - 27000.0 | -49.36      | -25         | -24.36      |
|                  |                   | Mid     | 30.0 - 2496.0     | -42.21      | -25         | -17.21      |
|                  |                   | Mid     | 2496.0 - 2690.0   | 14.62       | -           | -           |
|                  |                   | Mid     | 2690.0 - 15000.0  | -36.35      | -25         | -11.35      |
|                  |                   | Mid     | 15000.0 - 27000.0 | -50.45      | -25         | -25.45      |
|                  |                   | High    | 30.0 - 2496.0     | -41.88      | -25         | -16.88      |
|                  |                   | High    | 2496.0 - 2690.0   | 14.37       | -           | -           |
|                  |                   | High    | 2690.0 - 15000.0  | -37.30      | -25         | -12.30      |
| High             | 15000.0 - 27000.0 | -50.91  | -25               | -25.91      |             |             |
| LTE-B41 PC3 ULCA | 20+20MHz          | Low     | 30.0 - 2475.0     | -41.56      | -25         | -16.56      |
|                  |                   | Low     | 2496.0 - 2690.0   | 15.50       | -           | -           |
|                  |                   | Low     | 2690.0 - 15000.0  | -37.05      | -25         | -12.04      |
|                  |                   | Low     | 15000.0 - 27000.0 | -50.18      | -25         | -25.18      |
|                  |                   | Mid     | 30.0 - 2496.0     | -42.12      | -25         | -17.12      |
|                  |                   | Mid     | 2496.0 - 2690.0   | 15.46       | -           | -           |
|                  |                   | Mid     | 2690.0 - 15000.0  | -37.23      | -25         | -12.23      |
|                  |                   | Mid     | 15000.0 - 27000.0 | -50.05      | -25         | -25.05      |
|                  |                   | High    | 30.0 - 2496.0     | -41.55      | -25         | -16.55      |
|                  |                   | High    | 2496.0 - 2690.0   | 15.41       | -           | -           |
|                  |                   | High    | 2690.0 - 15000.0  | -37.48      | -25         | -12.48      |
| High             | 15000.0 - 27000.0 | -50.34  | -25               | -25.34      |             |             |

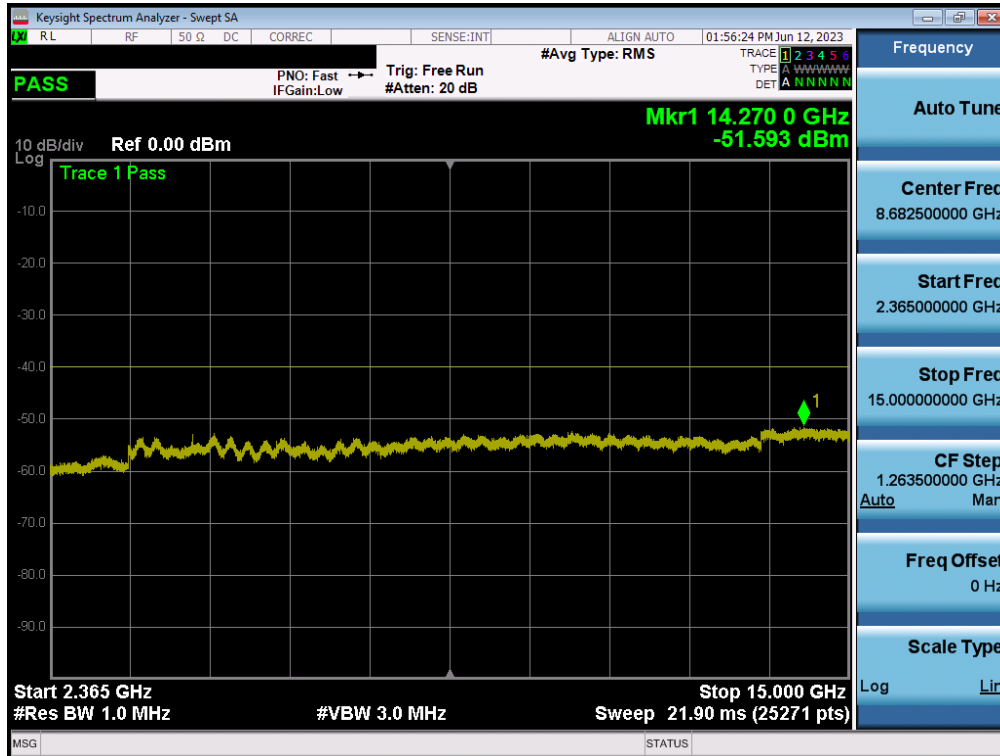
Table 7-140. Spurious and Harmonic Emissions Test Results (Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 93 of 214                    |

# LTE Band 30 – Ant2

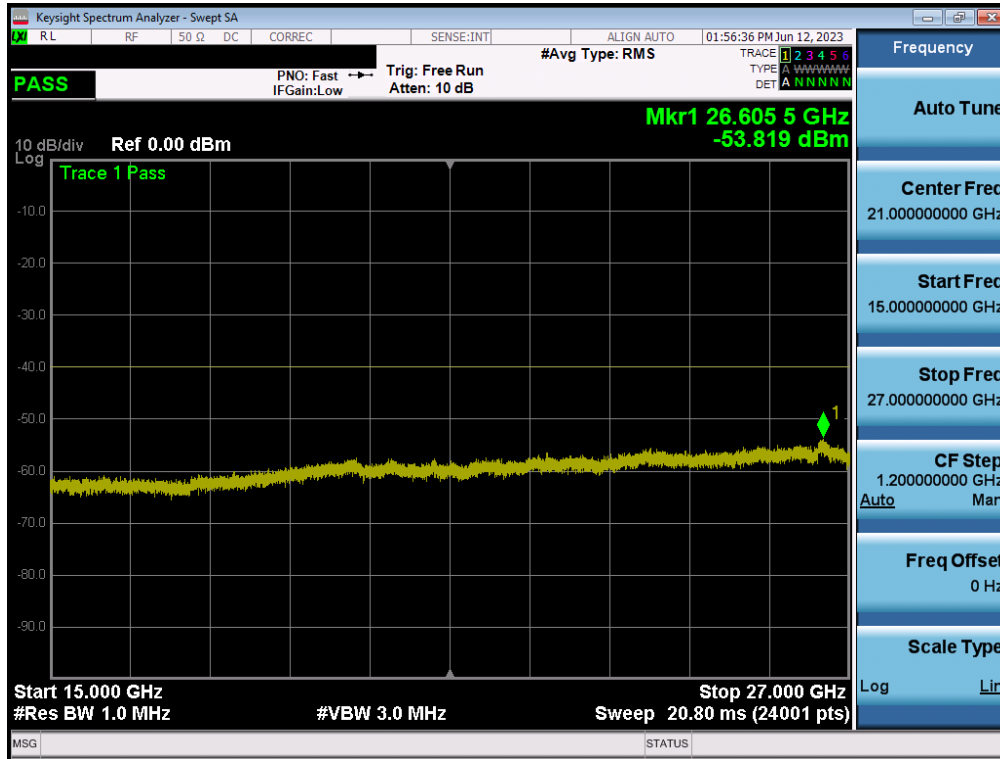


Plot 7-141. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant2)



Plot 7-142. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 94 of 214                    |



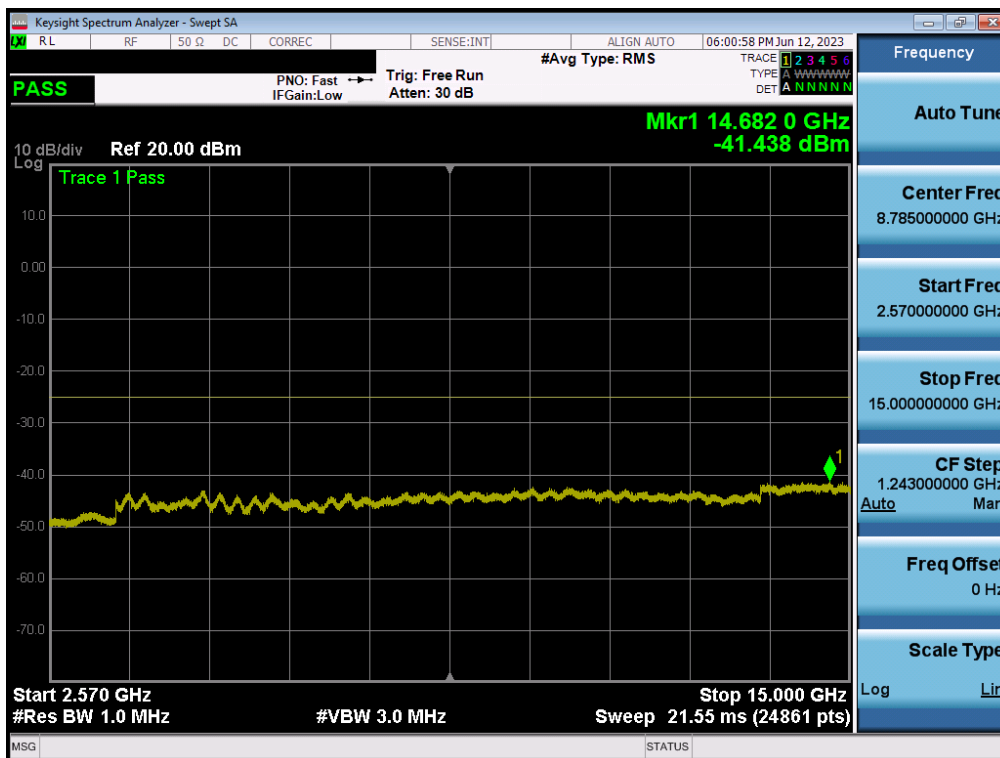
Plot 7-143. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0 - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 95 of 214                    |

## LTE Band 7 – Ant2

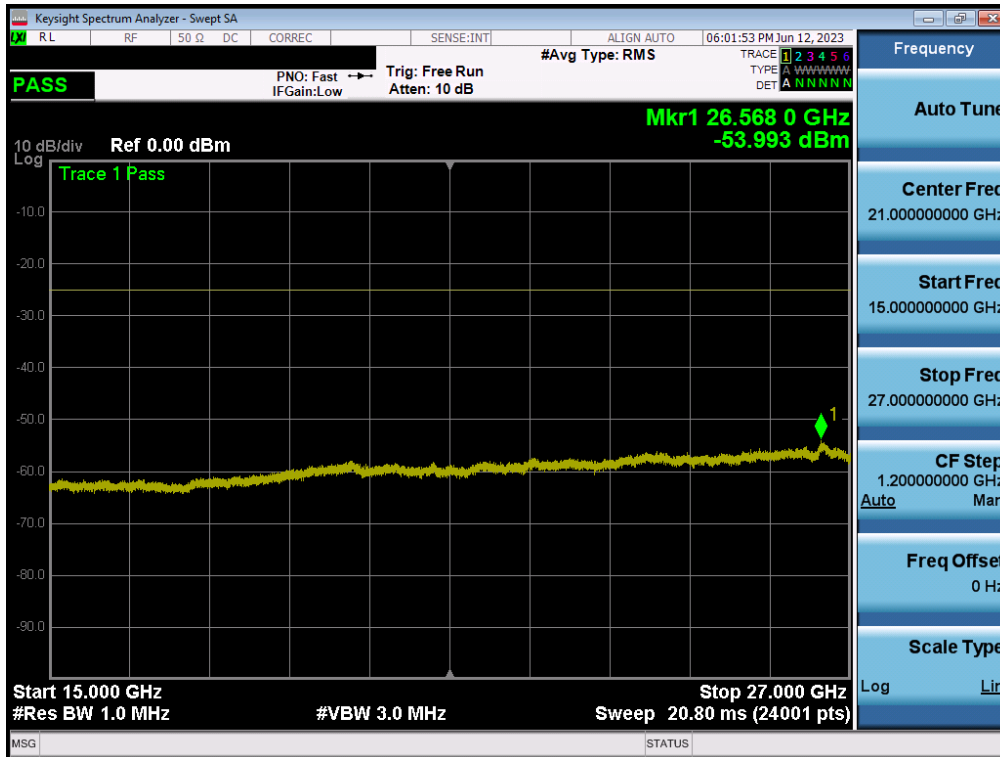


Plot 7-144. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)



Plot 7-145. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)

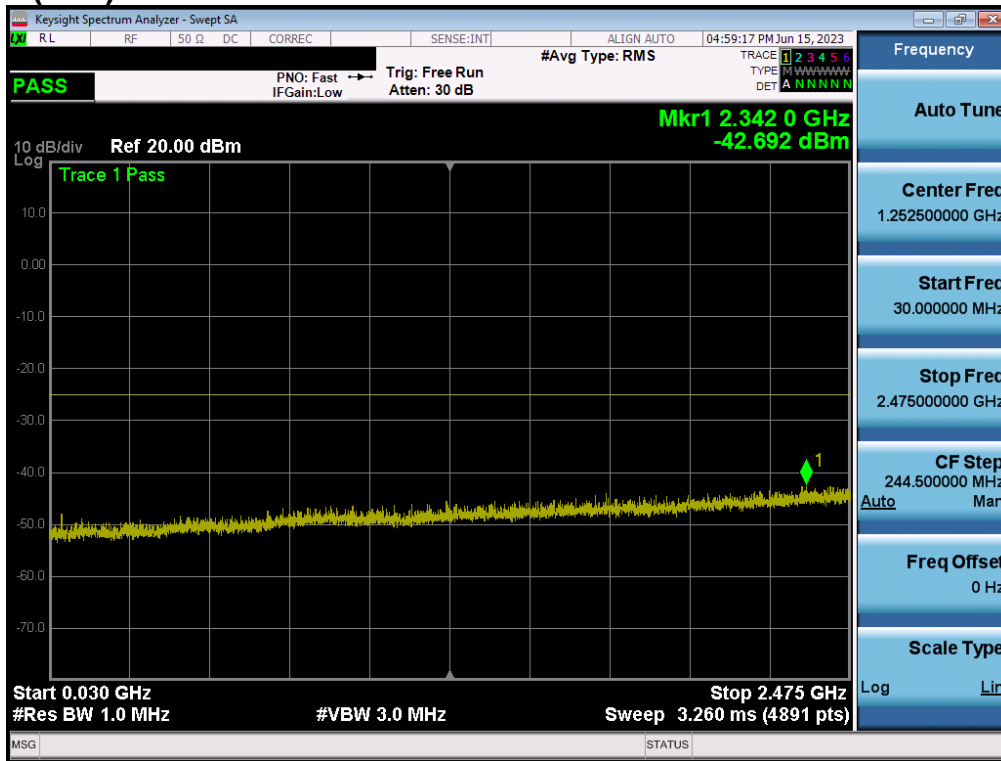
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 96 of 214                    |



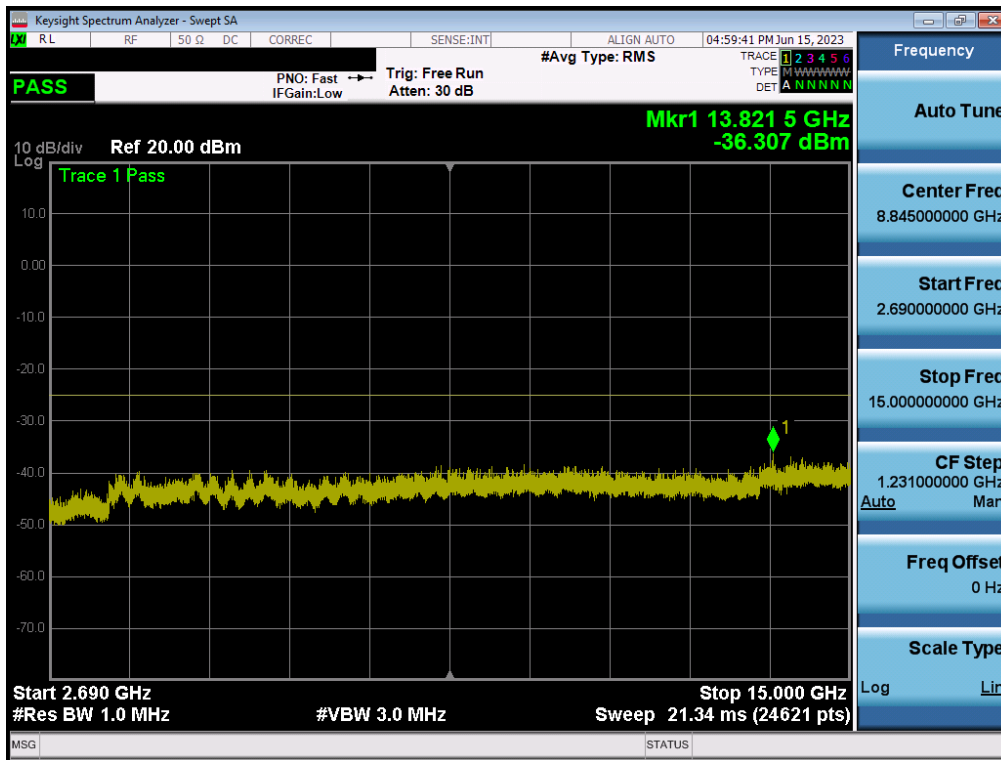
Plot 7-146. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 97 of 214                    |

### LTE Band 41(PC2) – Ant2

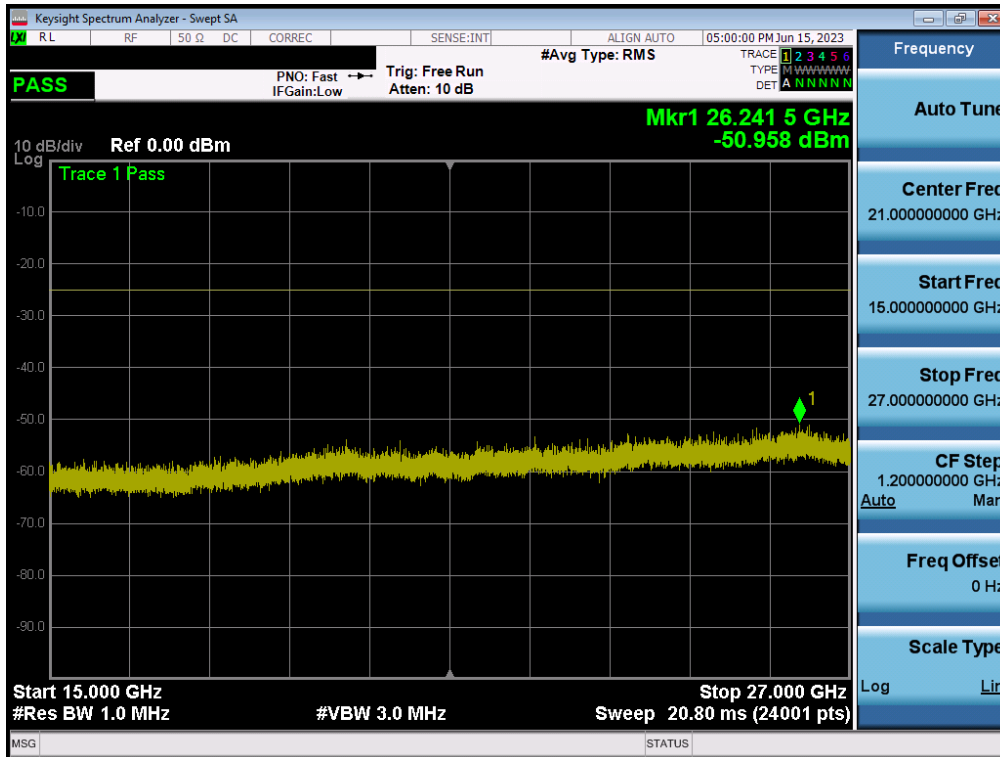


Plot 7-147. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2)



Plot 7-148. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 98 of 214                    |

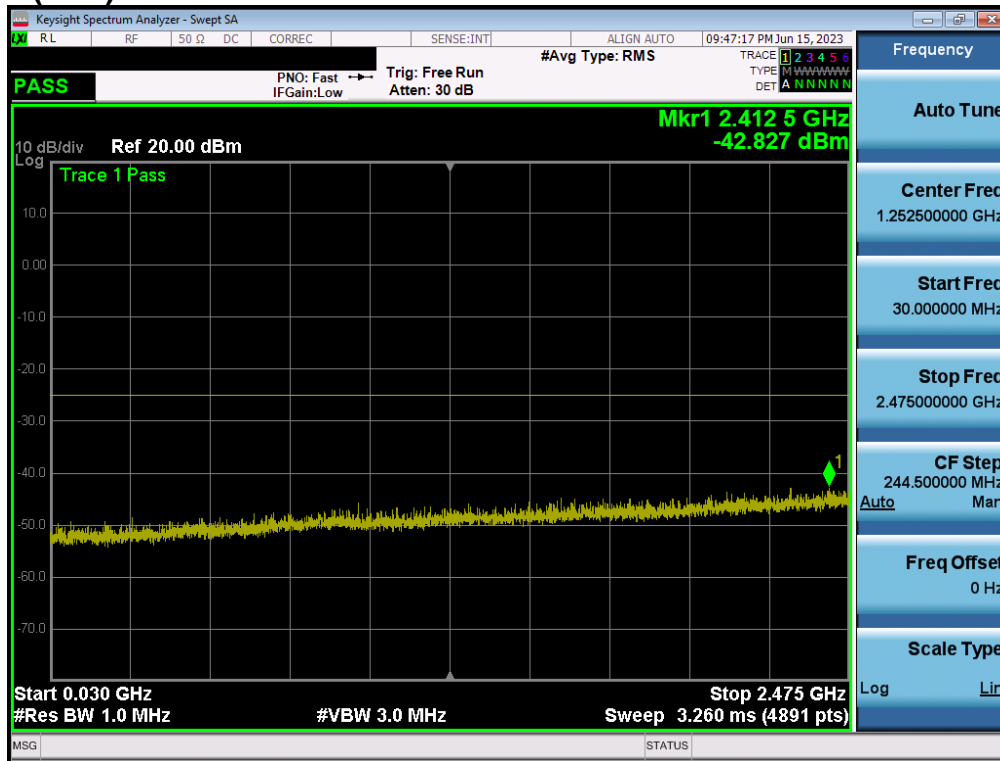


Plot 7-149. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2)

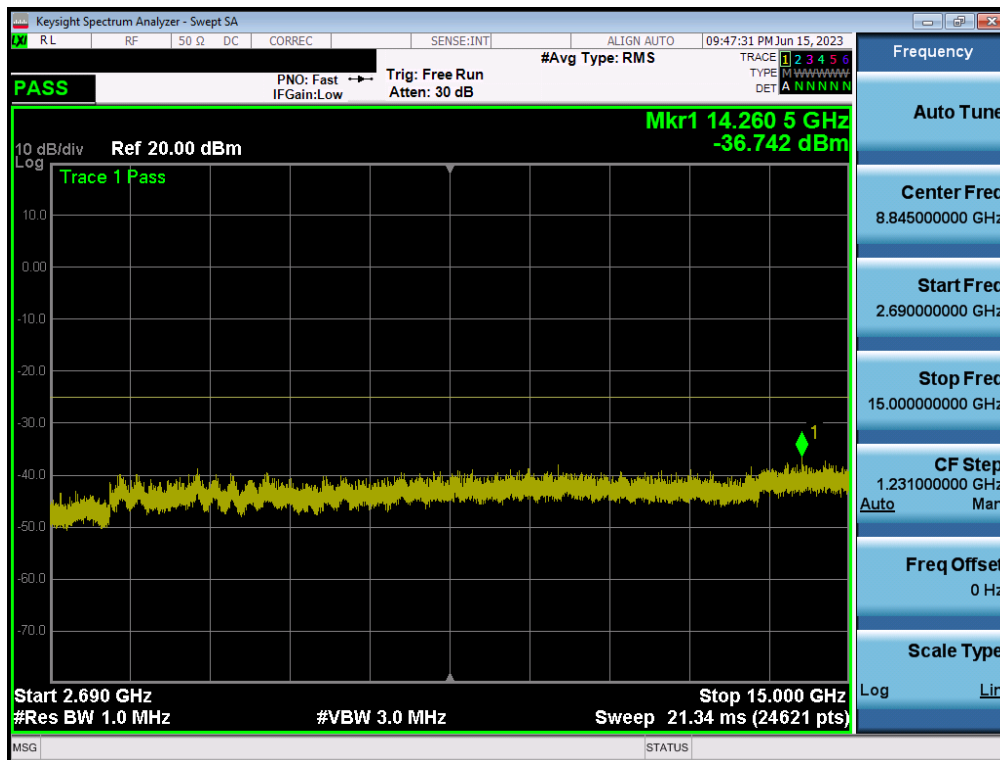
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 99 of 214                    |



## LTE Band 41(PC3)/38 – Ant2

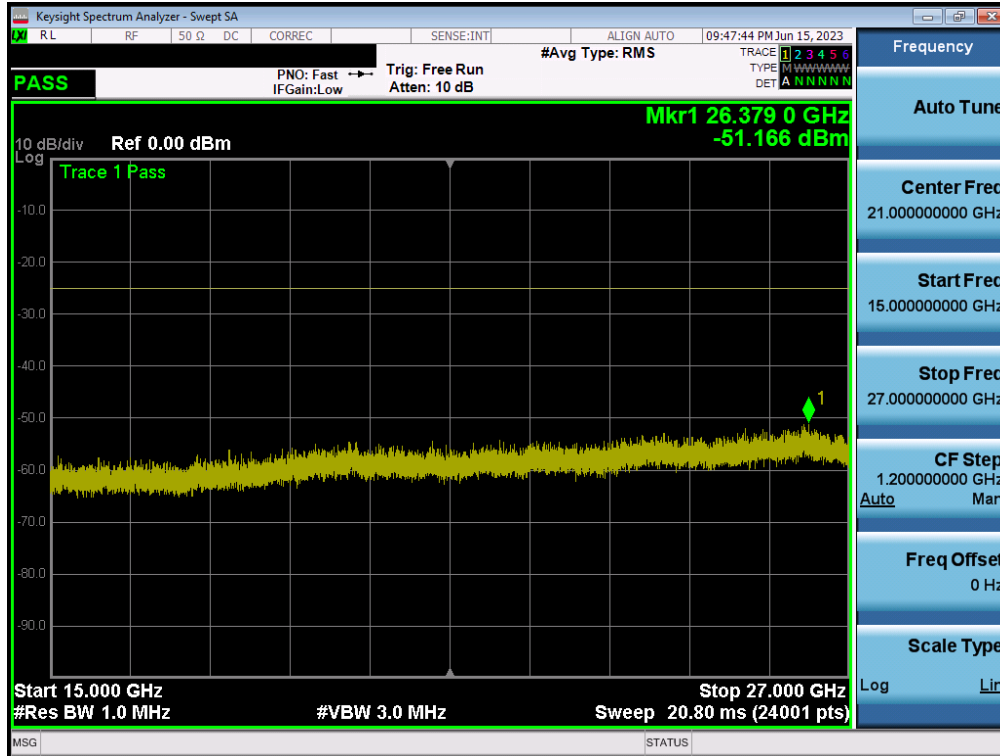


Plot 7-150. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2)



Plot 7-151. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2)

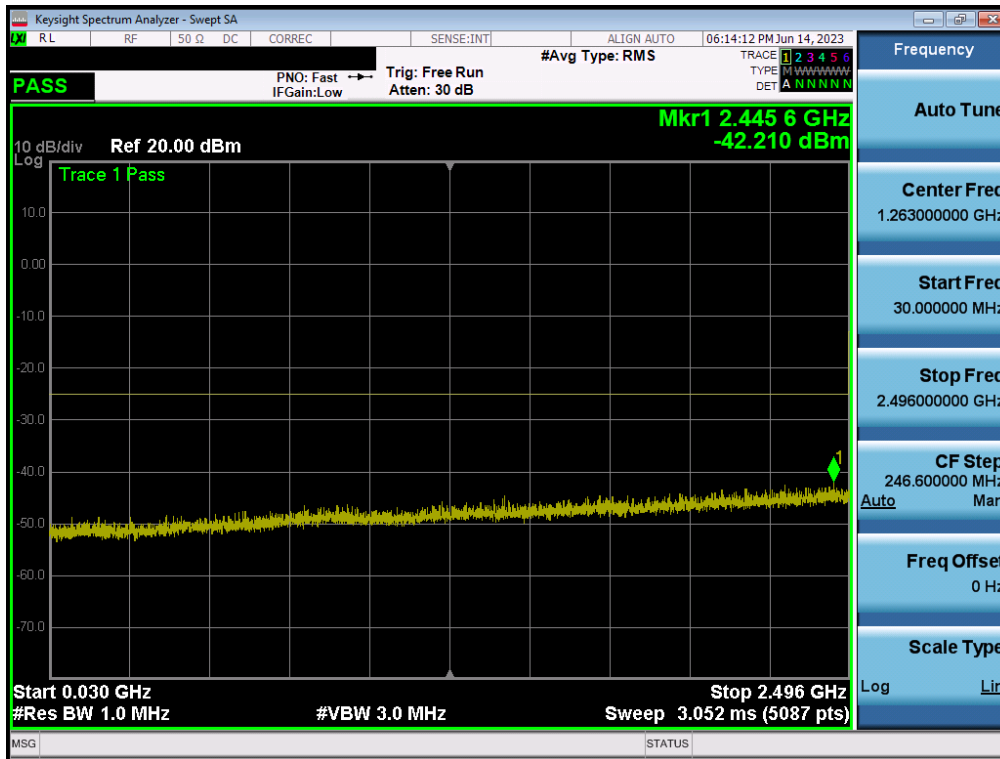
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 100 of 214                   |



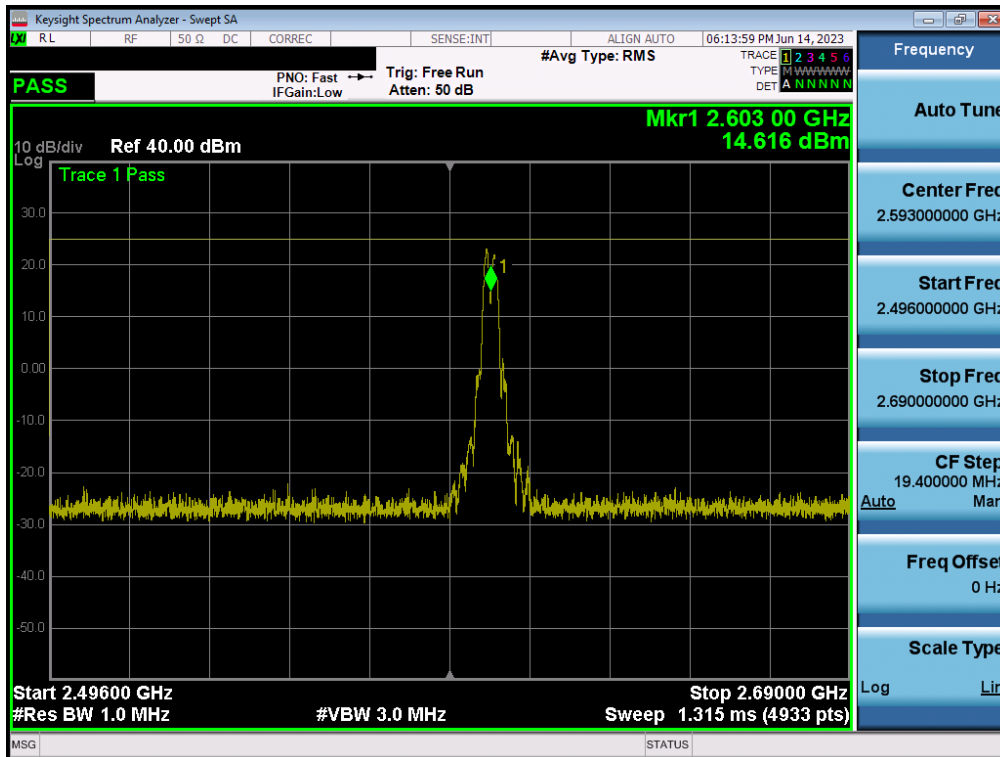
Plot 7-152. Conducted Spurious Plot (LTE Band 41(PC3)/38 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 101 of 214                   |

# ULCA - LTE B41(PC2) – Ant2

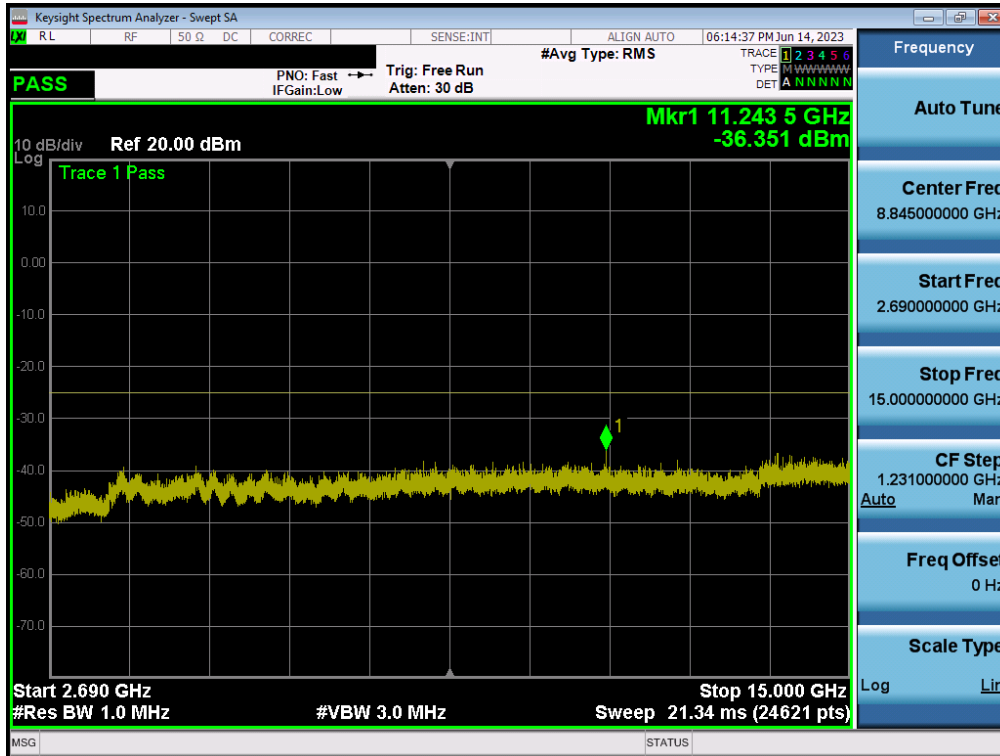


Plot 7-153. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant2)

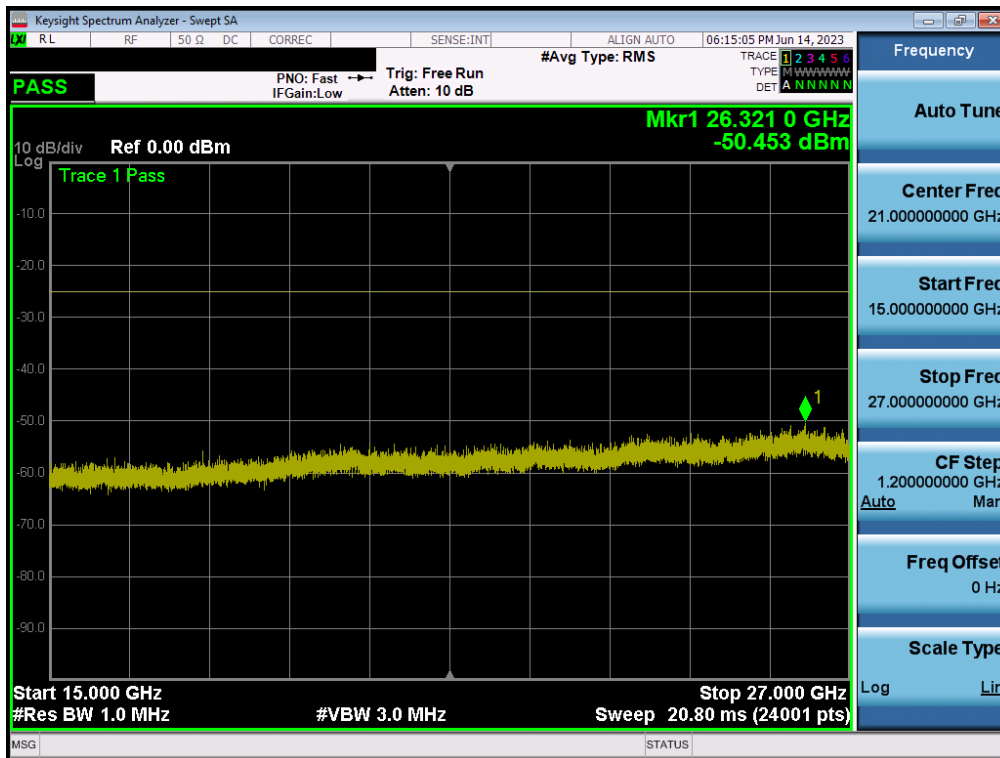


Plot 7-154. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 102 of 214                   |



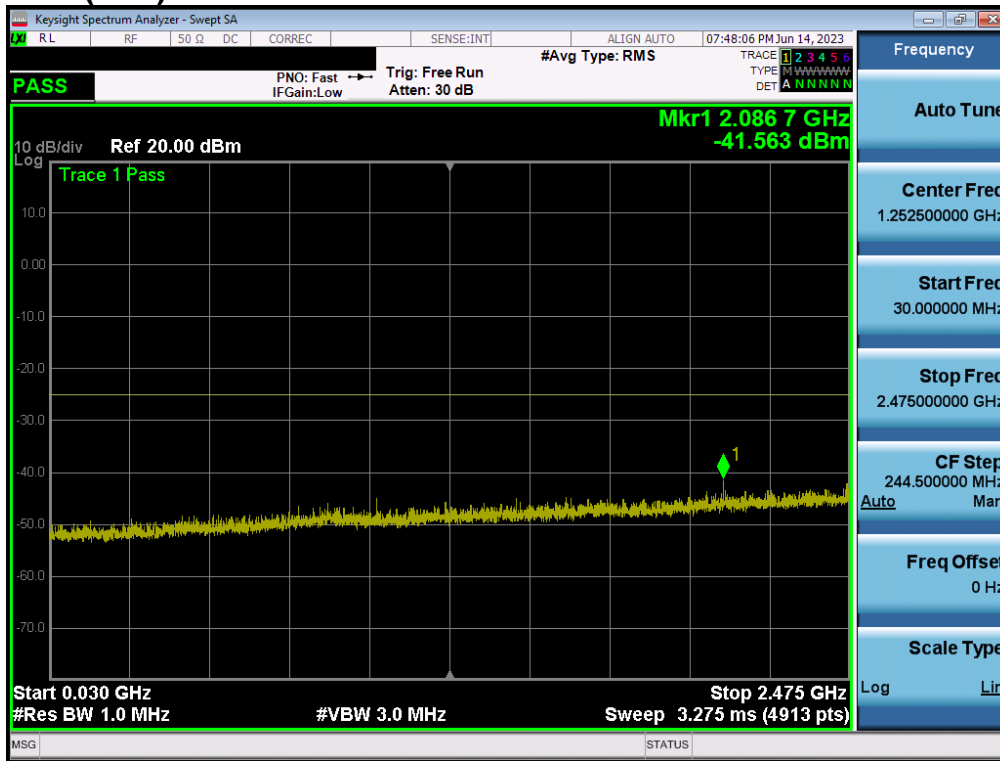
Plot 7-155. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant2)



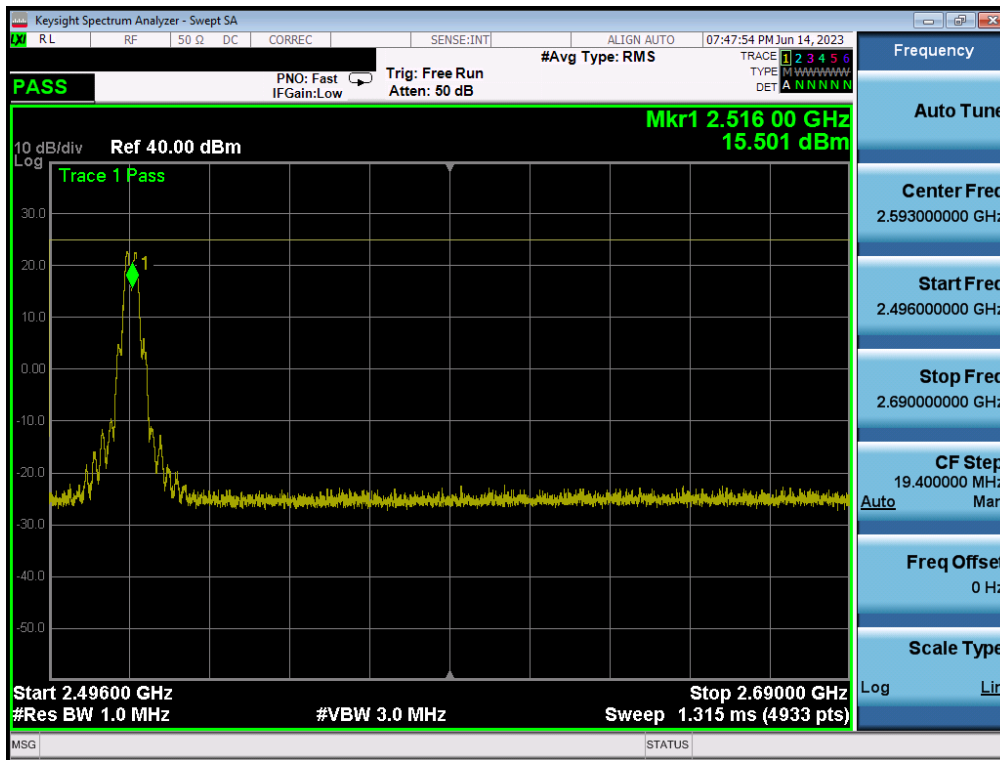
Plot 7-156. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 103 of 214                   |

# ULCA - LTE B41(PC3) – Ant2

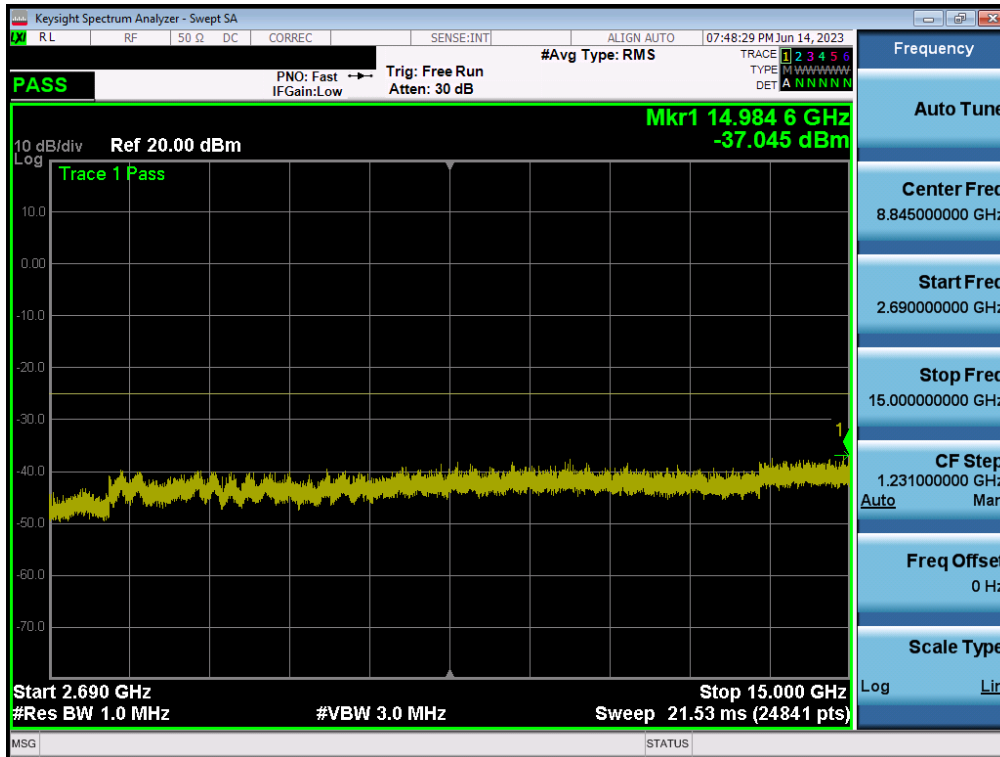


Plot 7-157. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant2)

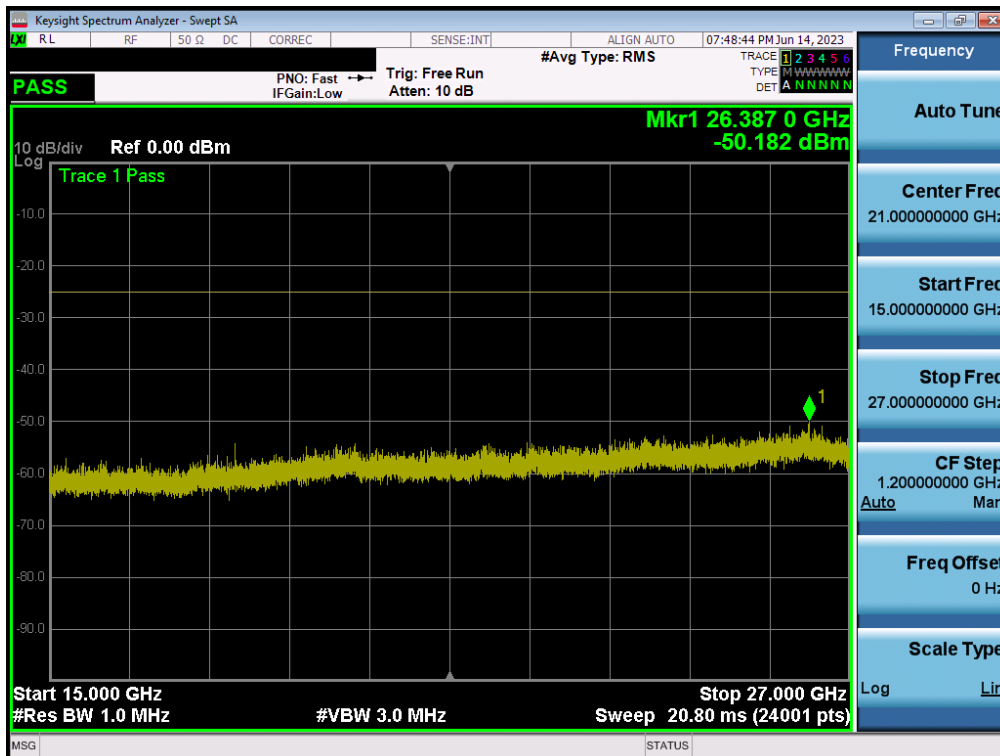


Plot 7-158. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 104 of 214                   |



Plot 7-159. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant2)



Plot 7-160. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 105 of 214                   |

| Mode   | Bandwidth | Channel | Range [MHz]      | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|------------------|-------------|-------------|-------------|
| NR-n30 | 10MHz     | Mid     | 30.0 - 2288.0    | -48.02      | -40         | -8.02       |
|        |           | Mid     | 2363.0 - 15000.0 | -51.72      | -40         | -11.72      |
|        |           | Mid     | 15000 - 27000.0  | -54.00      | -40         | -14.00      |

Table 7-161. Spurious and Harmonic Emissions Test Results (Ant2)

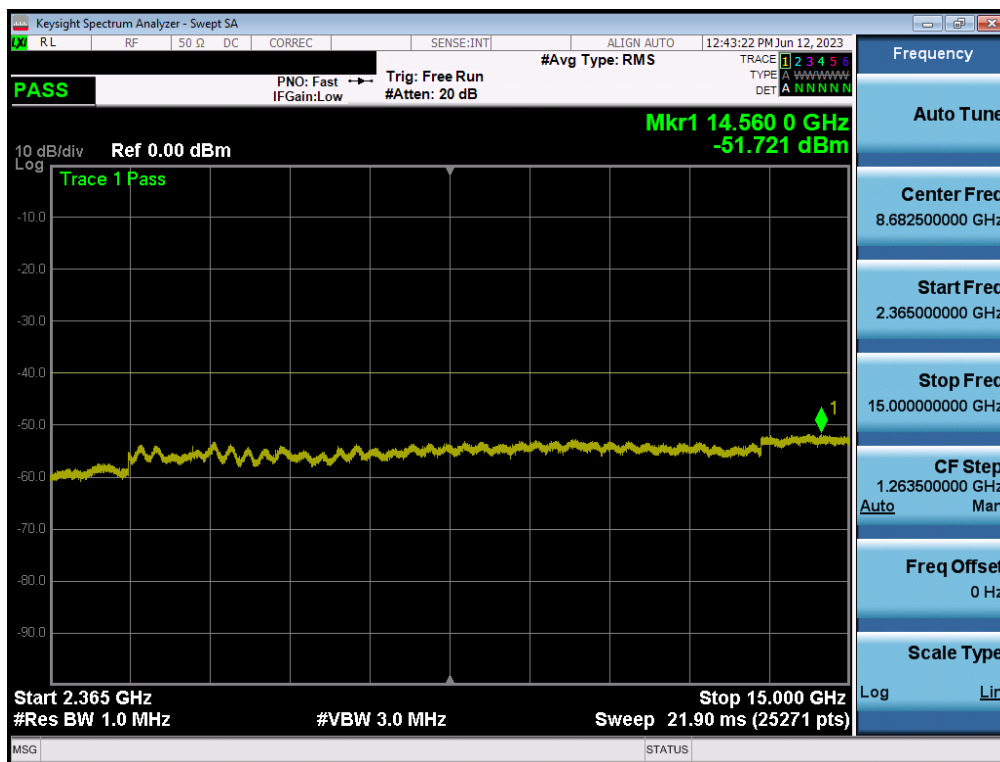
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 106 of 214                   |



## NR Band n30 – Ant2



Plot 7-162. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant2)



Plot 7-163. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 107 of 214                   |



## 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

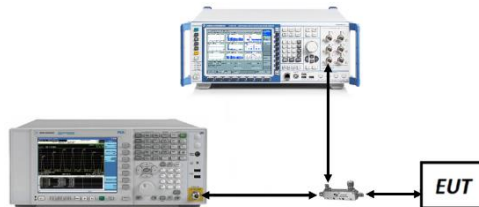
ANSI C63.26-2015 – Section 5.7.3

### 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 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x 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: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 109 of 214                   |

**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.

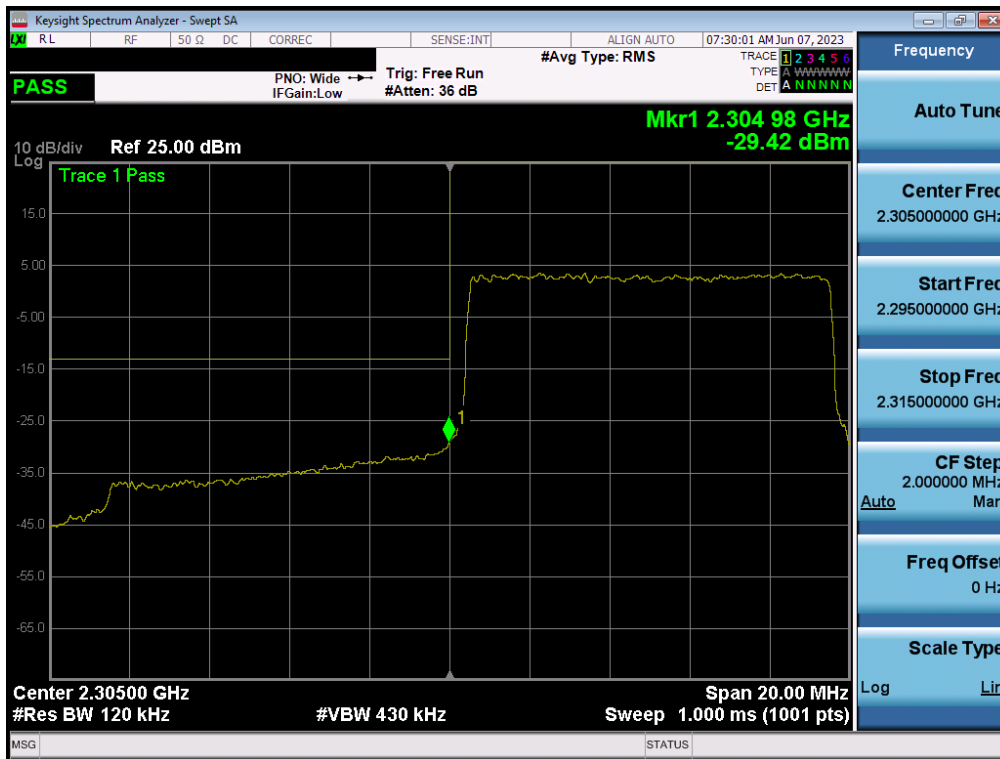
|  |   |                                      |  |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS711U                             | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2304260060-08.A3L | <b>Test Dates:</b><br>5/24/2023 - 7/31/2023 | <b>EUT Type:</b><br>Portable Handset | Page 110 of 214                          |

| Mode             | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE B30          | 10 MHz    | Low     | Band Edge | -29.43      | -13         | -16.42      |
|                  |           | Low     | Extended  | -32.28      | -31         | -1.28       |
|                  |           | High    | Band Edge | -29.61      | -13         | -16.61      |
|                  |           | High    | Extended  | -32.04      | -31         | -1.04       |
|                  | 5 MHz     | Low     | Band Edge | -26.16      | -13         | -13.16      |
|                  |           | Low     | Extended  | -30.15      | -25         | -5.15       |
|                  |           | High    | Band Edge | -26.43      | -13         | -13.43      |
|                  |           | High    | Extended  | -30.65      | -25         | -5.65       |
| LTE B7           | 20 MHz    | Low     | Band Edge | -38.51      | -25         | -13.51      |
|                  |           | High    | Band Edge | -45.44      | -25         | -20.44      |
|                  | 15 MHz    | Low     | Band Edge | -39.16      | -10         | -29.16      |
|                  |           | High    | Band Edge | -41.68      | -25         | -16.68      |
|                  | 10 MHz    | Low     | Band Edge | -25.69      | -10         | -15.69      |
|                  |           | High    | Band Edge | -41.21      | -25         | -16.21      |
|                  | 5 MHz     | Low     | Band Edge | -26.01      | -10         | -16.01      |
|                  |           | High    | Band Edge | -42.47      | -25         | -17.47      |
| LTE B41 PC2      | 20 MHz    | Low     | Band Edge | -32.71      | -25         | -7.71       |
|                  |           | High    | Band Edge | -25.50      | -13         | -12.50      |
|                  | 15 MHz    | Low     | Band Edge | -32.37      | -25         | -7.37       |
|                  |           | High    | Band Edge | -35.69      | -25         | -10.69      |
|                  | 10 MHz    | Low     | Band Edge | -31.83      | -25         | -6.83       |
|                  |           | High    | Band Edge | -33.80      | -25         | -8.80       |
|                  | 5 MHz     | Low     | Band Edge | -25.97      | -13         | -12.97      |
|                  |           | High    | Band Edge | -33.29      | -25         | -8.29       |
| LTE B41 PC3      | 20 MHz    | Low     | Band Edge | -35.51      | -25         | -10.51      |
|                  |           | High    | Band Edge | -40.27      | -25         | -15.27      |
|                  | 15 MHz    | Low     | Band Edge | -34.32      | -25         | -9.32       |
|                  |           | High    | Band Edge | -38.24      | -25         | -13.24      |
|                  | 10 MHz    | Low     | Band Edge | -33.89      | -25         | -8.89       |
|                  |           | High    | Band Edge | -36.63      | -25         | -11.63      |
|                  | 5 MHz     | Low     | Band Edge | -26.23      | -13         | -13.23      |
|                  |           | High    | Band Edge | -17.33      | -10         | -7.33       |
| LTE-B41 PC2 ULCA | 20+20MHz  | Low     | Band Edge | -33.58      | -25         | -8.58       |
|                  |           | High    | Band Edge | -34.41      | -25         | -9.41       |
|                  |           | Low     | Band Edge | -33.58      | -25         | -8.58       |
|                  |           | High    | Band Edge | -34.41      | -25         | -9.41       |
| LTE-B41 PC3 ULCA | 20+20MHz  | Low     | Band Edge | -34.32      | -25         | -9.32       |
|                  |           | High    | Band Edge | -34.17      | -25         | -9.17       |
|                  |           | Low     | Band Edge | -34.32      | -25         | -9.32       |
|                  |           | High    | Band Edge | -34.17      | -25         | -9.17       |

Table 7-165. Band Edge Emissions Test Results (Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 111 of 214                   |

# LTE Band 30 – Ant1



Plot 7-166. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant1)

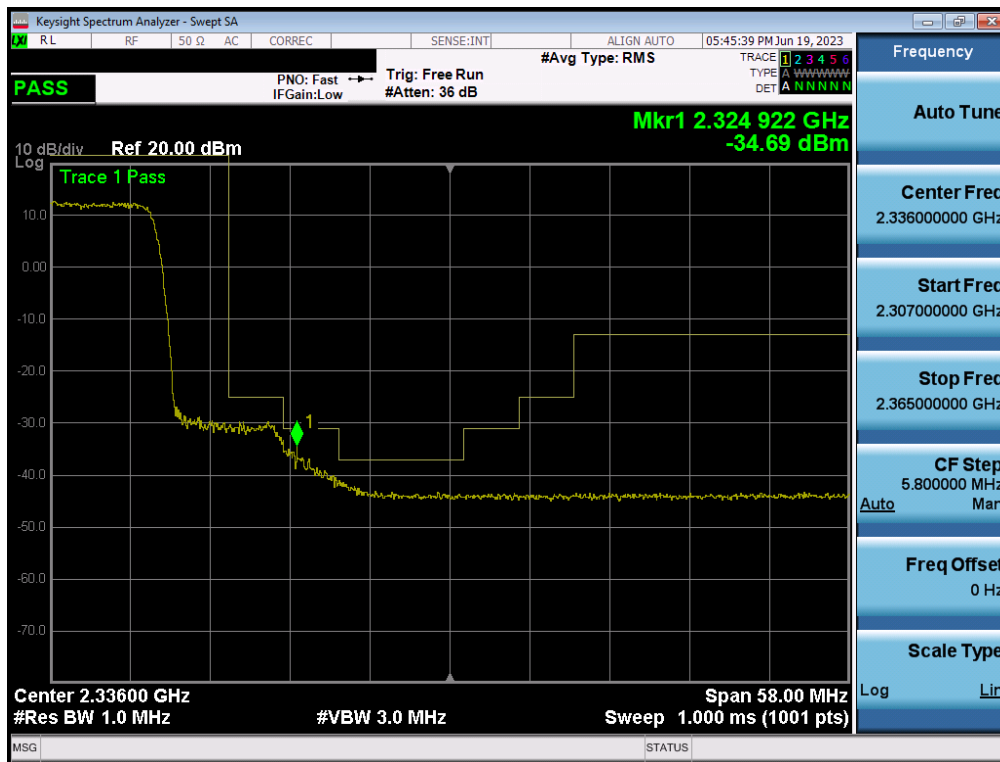


Plot 7-167. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 112 of 214                   |

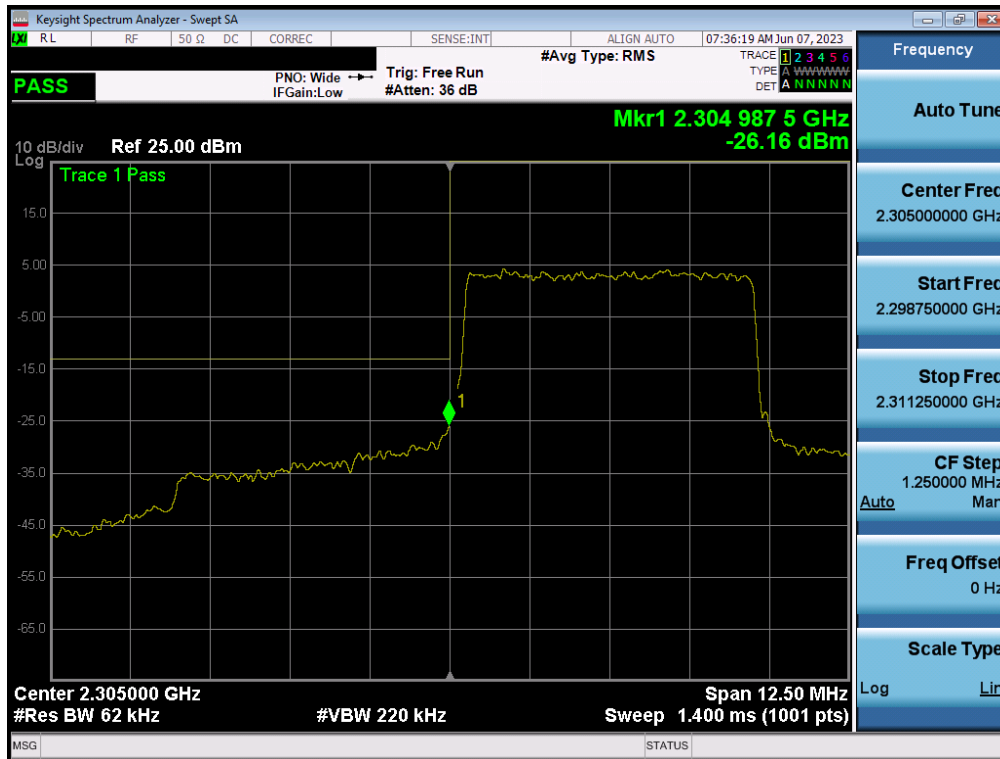


Plot 7-168. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant1)

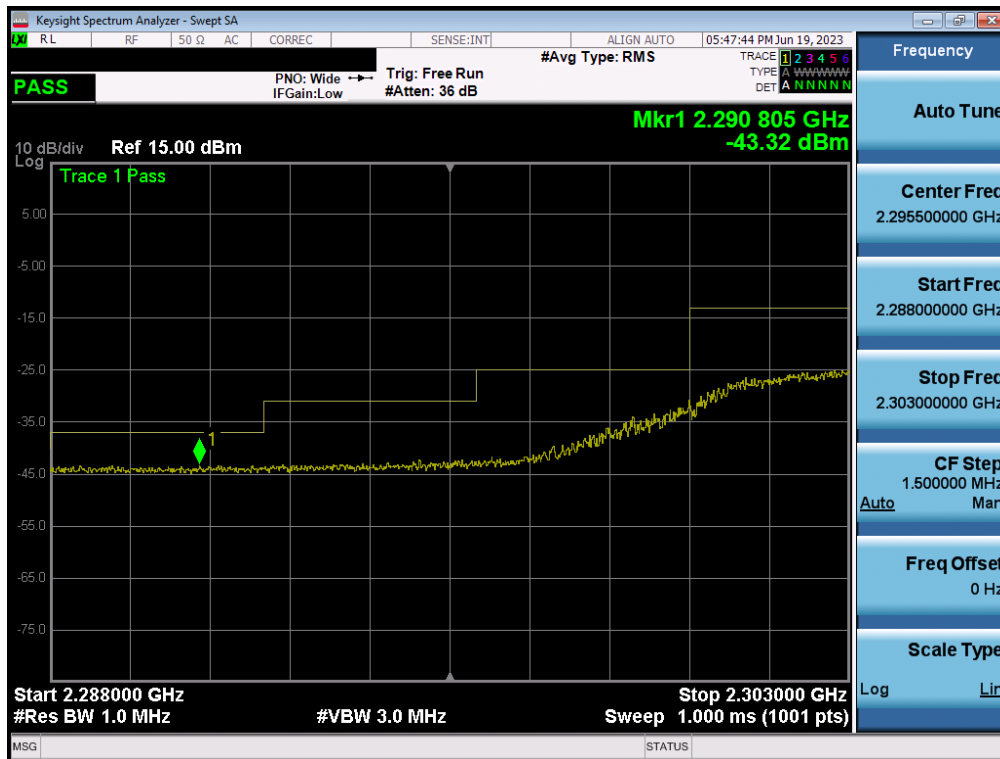


Plot 7-169. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 113 of 214                   |



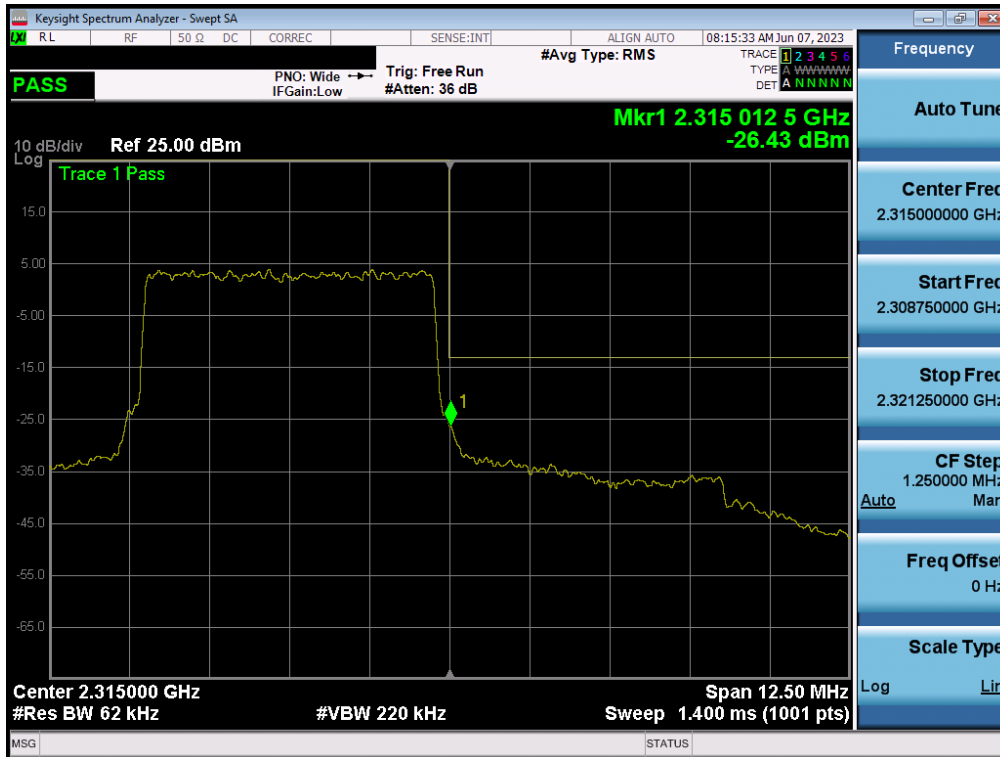
Plot 7-170. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant1)



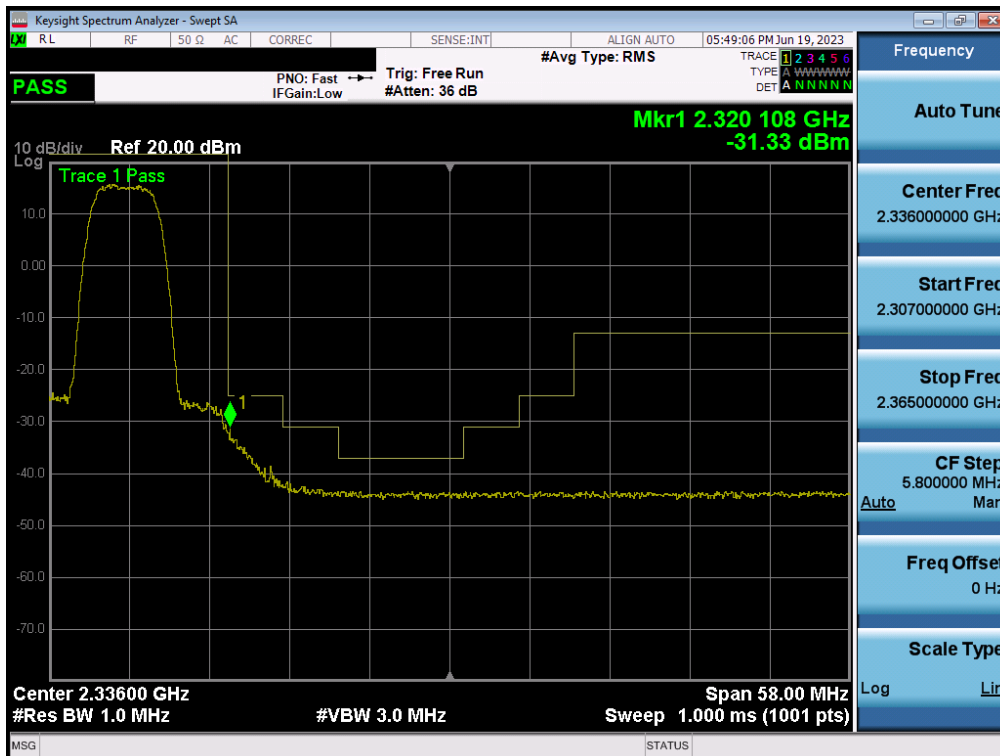
Plot 7-171. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 114 of 214                   |





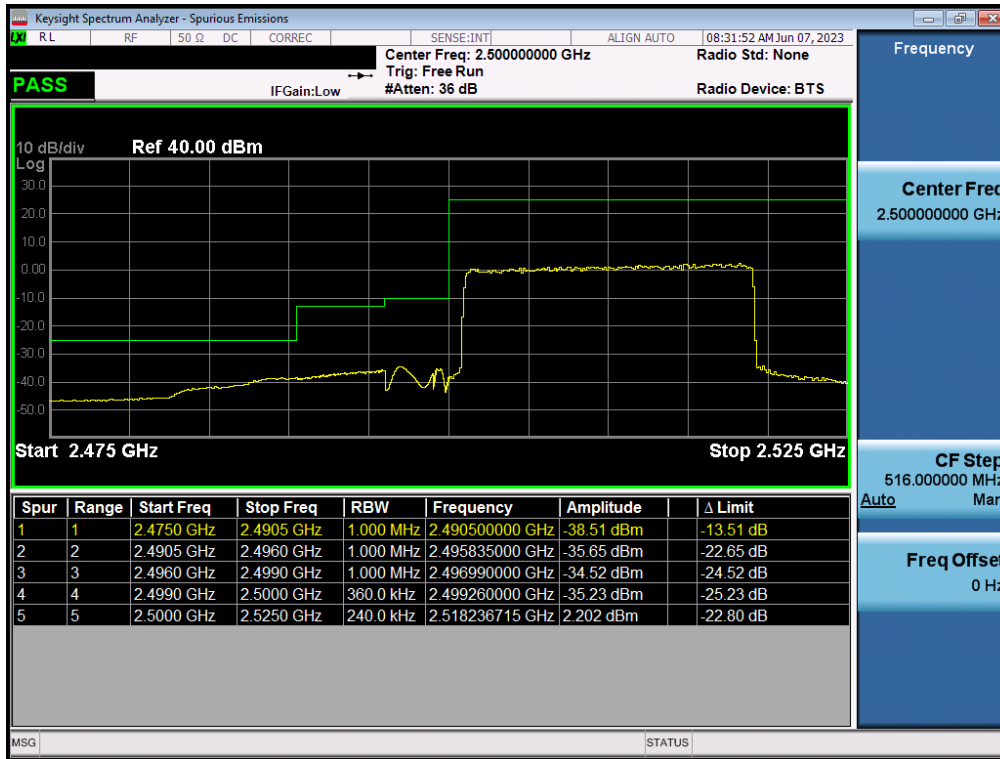
Plot 7-172. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant1)



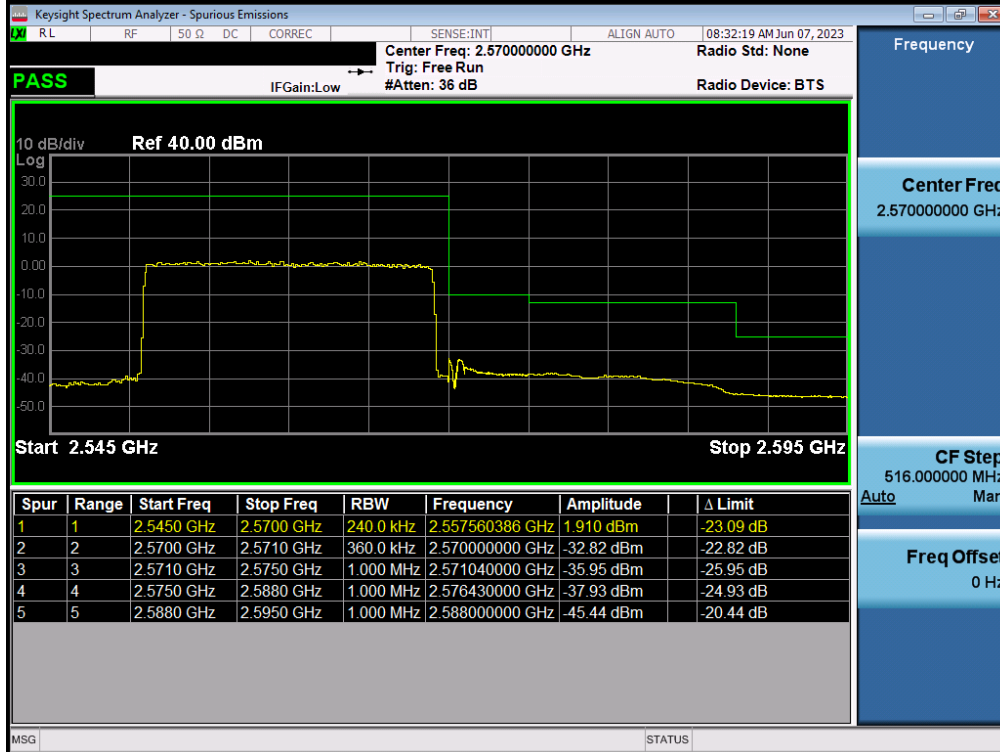
Plot 7-173. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 115 of 214                   |

# LTE Band 7 – Ant1



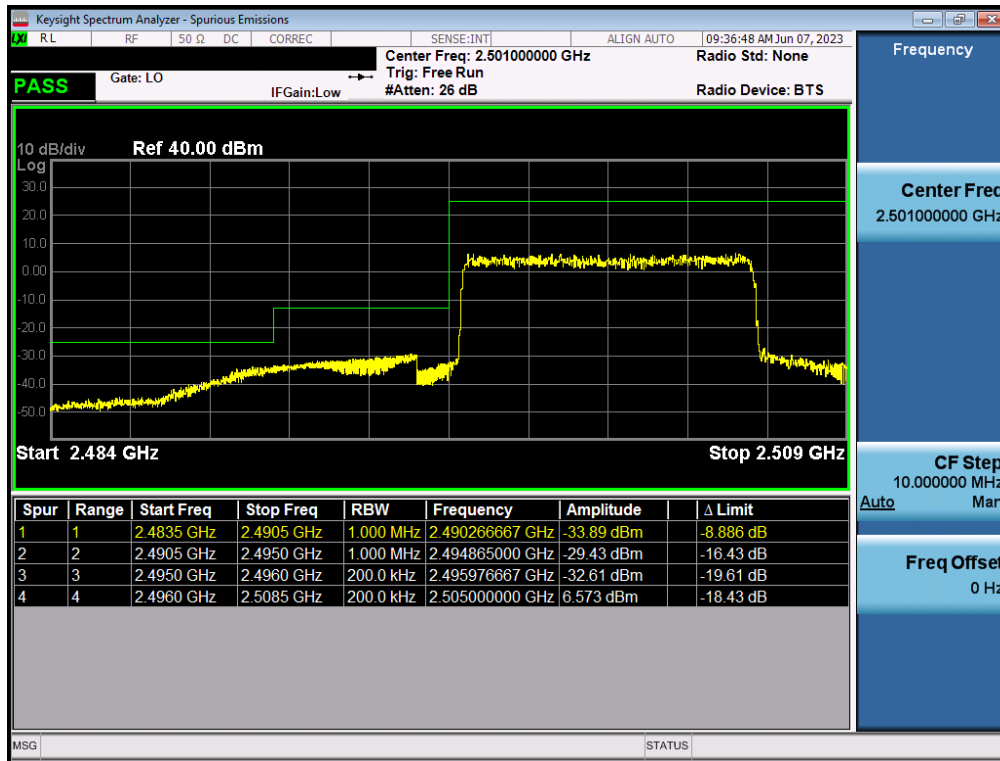
Plot 7-174. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant1)



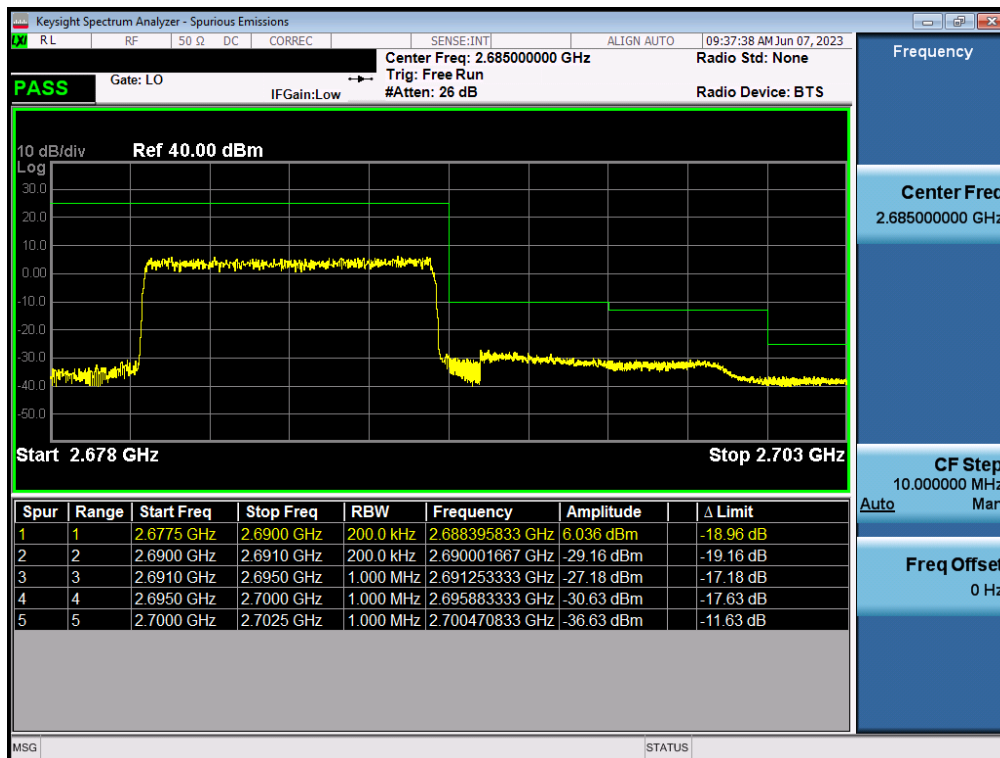
Plot 7-175. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 116 of 214                   |

# LTE Band 41(PC2) – Ant1



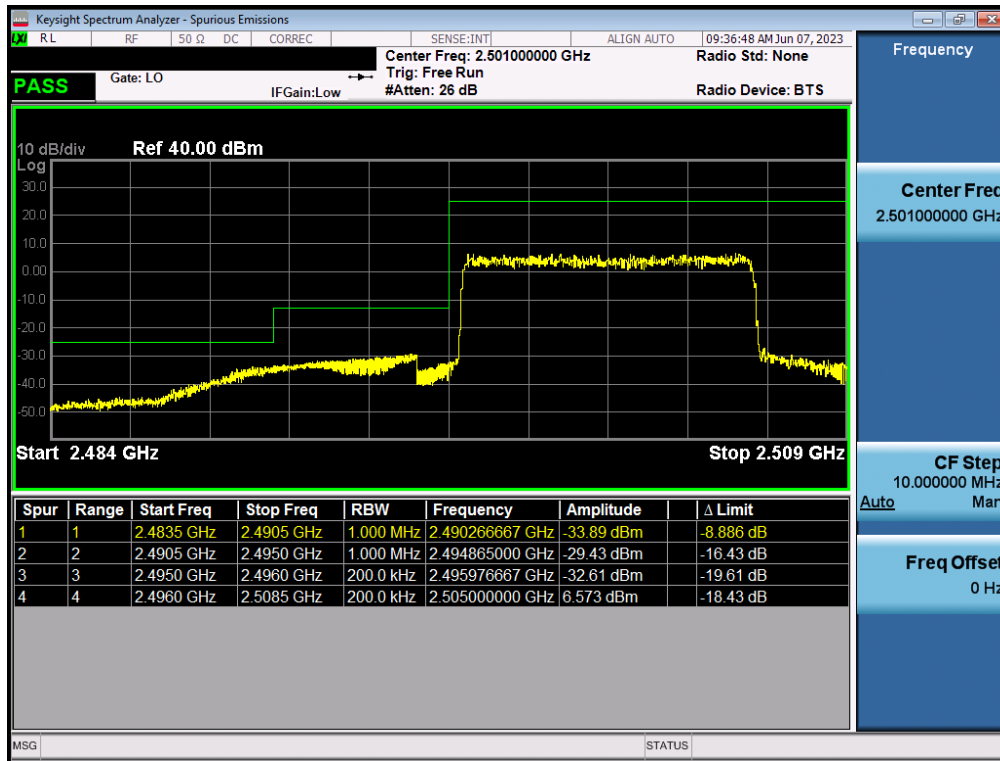
Plot 7-176. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK – Full RB - Ant1)



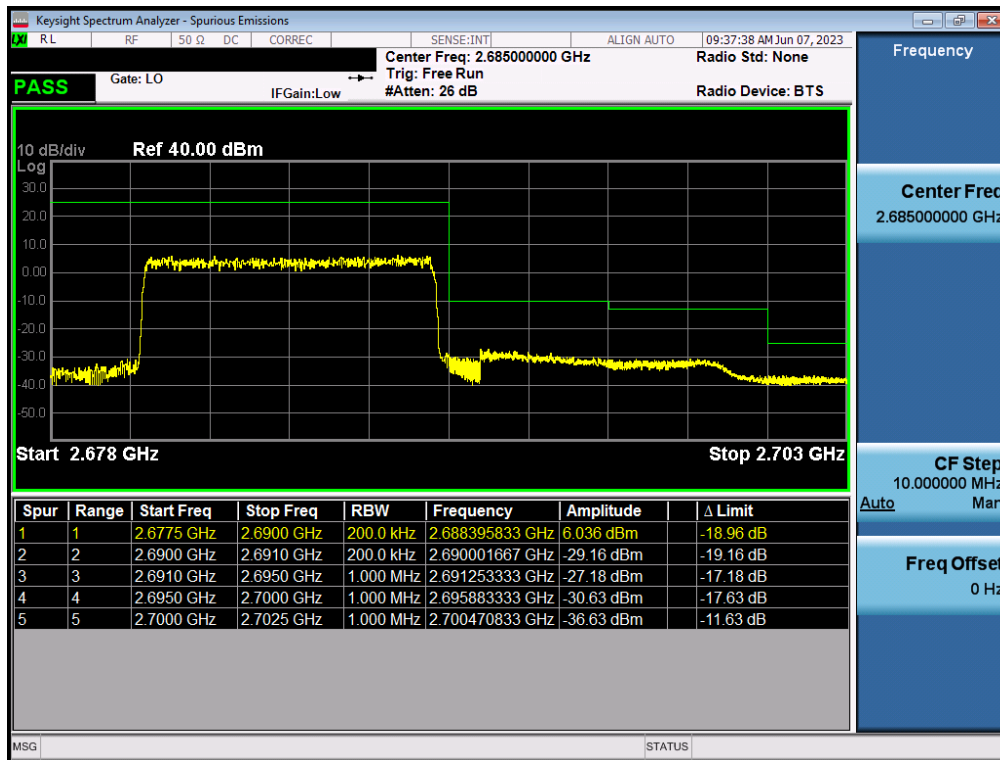
Plot 7-177. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 117 of 214                   |

# LTE Band 41(PC3) – Ant1



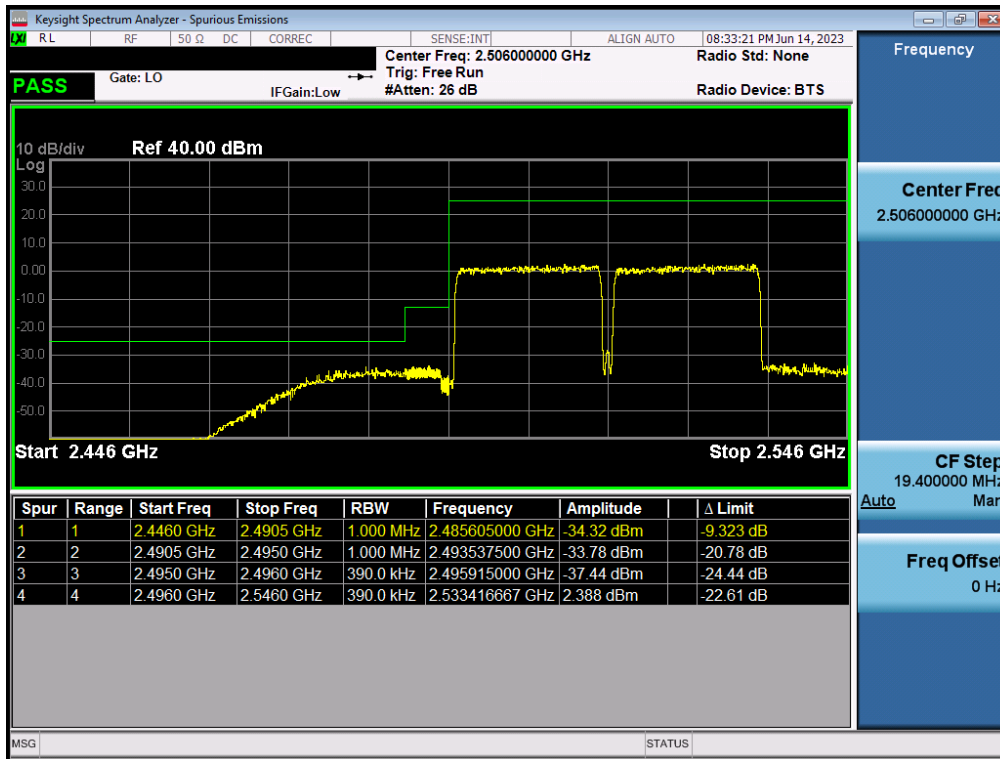
Plot 7-178. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1)



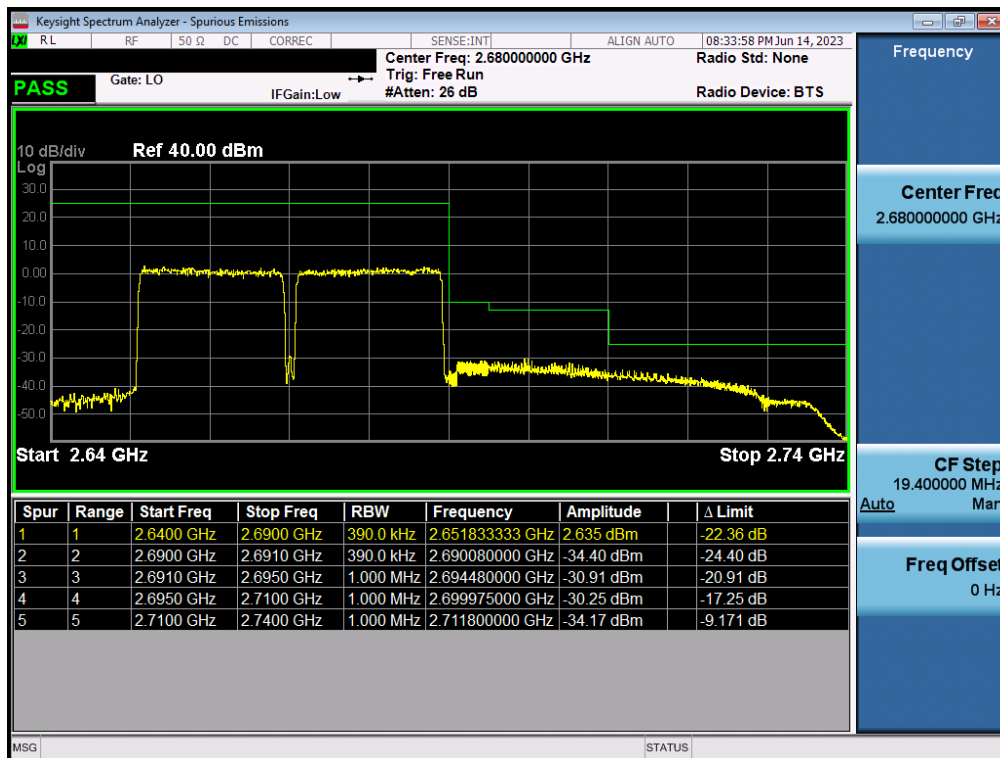
Plot 7-179. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 118 of 214                   |

# ULCA - LTE Band 41(PC2) – Ant1



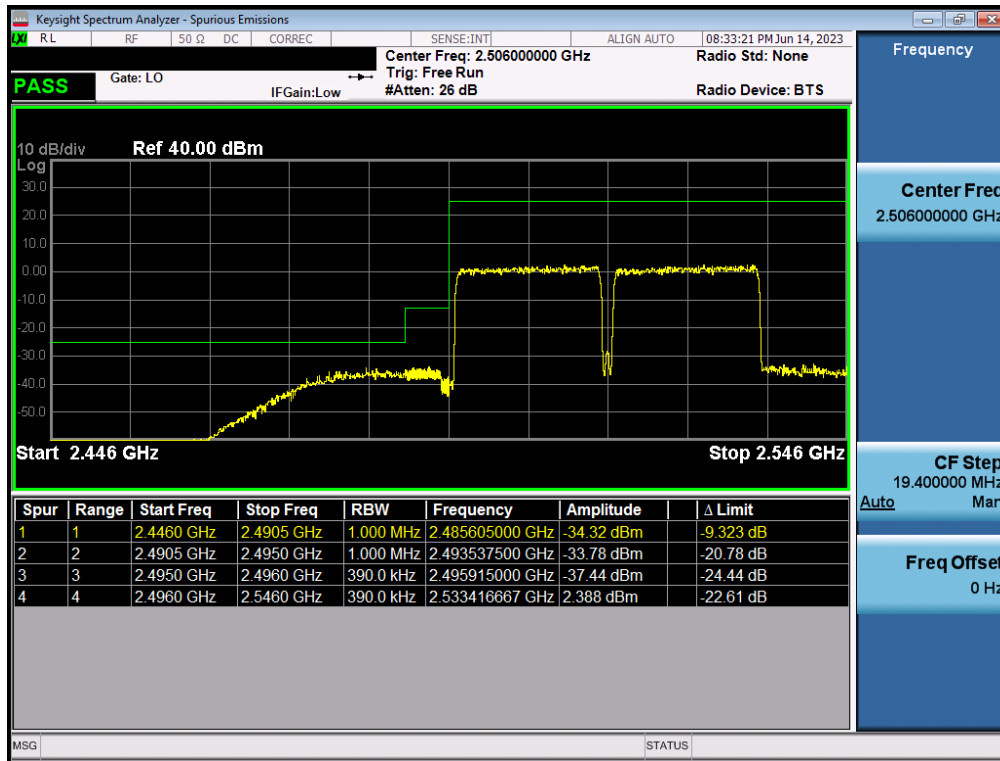
Plot 7-180. Lower ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB - Ant1)



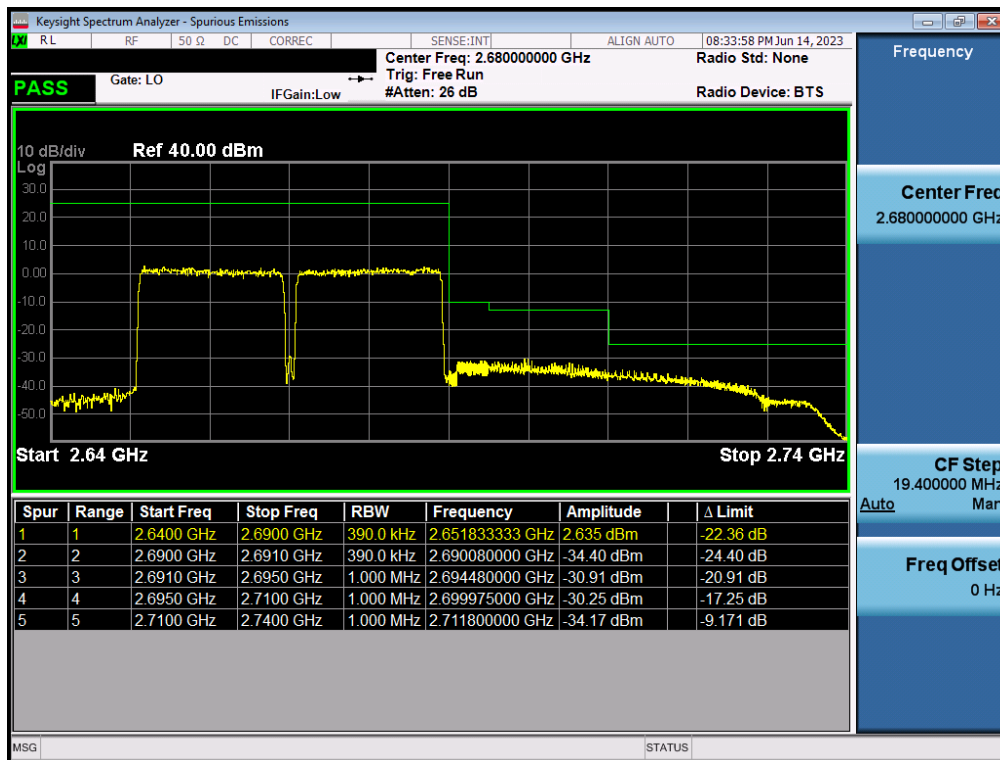
Plot 7-181. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB - Ant1)

| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 119 of 214                   |

# ULCA - LTE Band 41(PC3) – Ant1



Plot 7-182. Lower ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant1)



Plot 7-183. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant1)

| FCC ID: A3LSMS711U                      |                                      | PART 27 MEASUREMENT REPORT    |                 | Approved by:<br>Technical Manager |
|---|--------------------------------------|-------------------------------|-----------------|-----------------------------------|
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 120 of 214 |                                   |

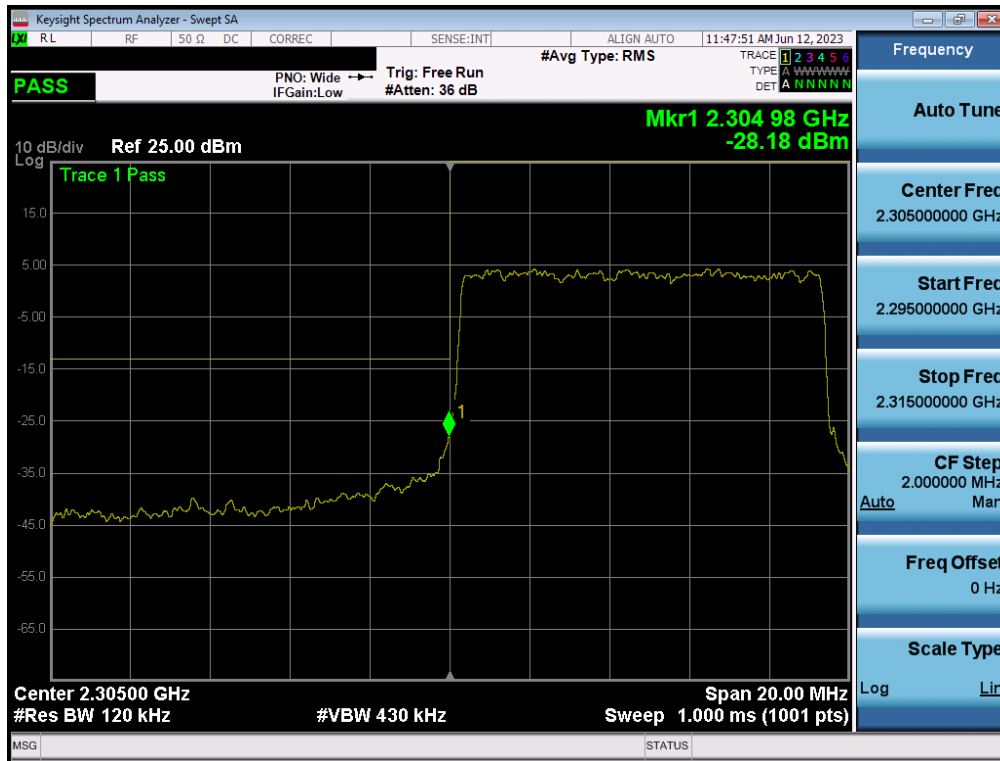
| Mode   | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-----------|-------------|-------------|-------------|
| NR n30 | 10 MHz    | Low     | Band Edge | -28.18      | -13         | -15.18      |
|        |           | Low     | Extended  | -38.55      | -37         | -1.55       |
|        |           | High    | Band Edge | -27.70      | -13         | -14.70      |
|        |           | High    | Extended  | -38.54      | -37         | -1.54       |
|        | 5 MHz     | Low     | Band Edge | -26.96      | -13         | -13.96      |
|        |           | Low     | Extended  | -31.92      | -25         | -6.92       |
|        |           | High    | Band Edge | -20.93      | -13         | -7.93       |
|        |           | High    | Extended  | -32.58      | -25         | -7.58       |
| NR n41 | 100 MHz   | Low     | Band Edge | -36.58      | -25         | -11.58      |
|        |           | High    | Band Edge | -25.96      | -10         | -15.96      |
|        | 90 MHz    | Low     | Band Edge | -36.10      | -25         | -11.10      |
|        |           | High    | Band Edge | -29.29      | -10         | -19.29      |
|        | 80 MHz    | Low     | Band Edge | -38.69      | -25         | -13.69      |
|        |           | High    | Band Edge | -32.22      | -10         | -22.22      |
|        | 70 MHz    | Low     | Band Edge | -36.00      | -25         | -11.00      |
|        |           | High    | Band Edge | -25.22      | -10         | -15.22      |
|        | 60 MHz    | Low     | Band Edge | -35.54      | -25         | -10.54      |
|        |           | High    | Band Edge | -20.25      | -10         | -10.25      |
|        | 50 MHz    | Low     | Band Edge | -41.07      | -25         | -16.07      |
|        |           | High    | Band Edge | -31.68      | -10         | -21.68      |
|        | 40 MHz    | Low     | Band Edge | -40.59      | -25         | -15.59      |
|        |           | High    | Band Edge | -42.93      | -25         | -17.93      |
|        | 30 MHz    | Low     | Band Edge | -38.30      | -25         | -13.30      |
|        |           | High    | Band Edge | -38.90      | -25         | -13.90      |
|        | 20 MHz    | Low     | Band Edge | -36.13      | -25         | -11.13      |
|        |           | High    | Band Edge | -39.63      | -25         | -14.63      |

Table 7-184. Band Edge Emissions Test Results (Ant1)

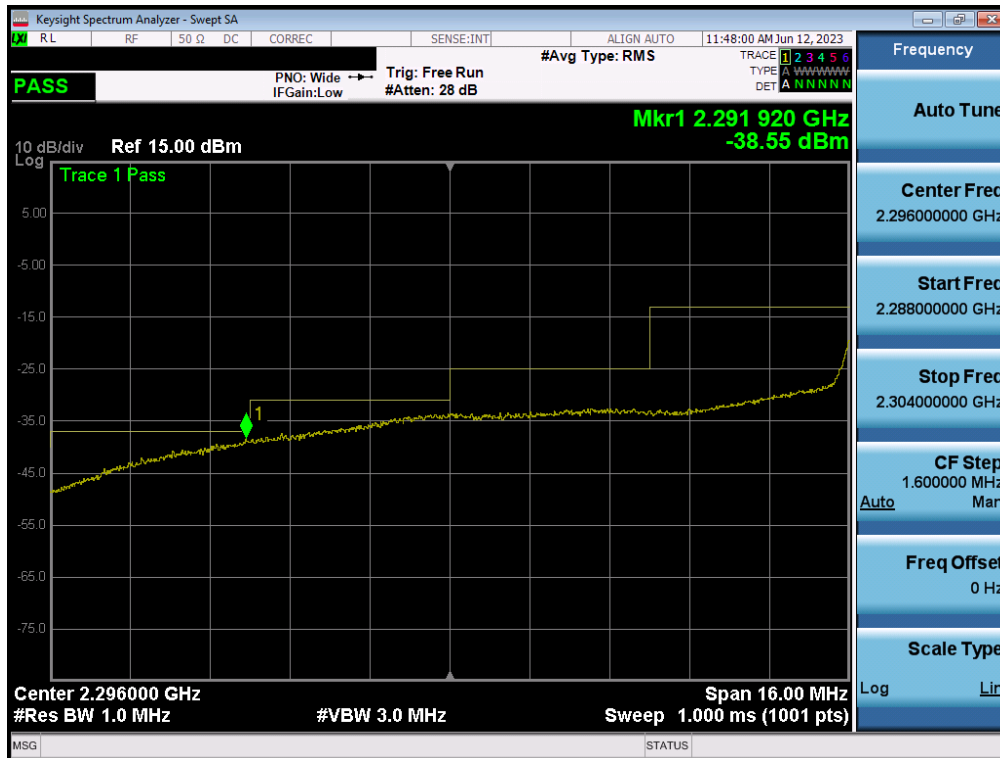
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 121 of 214                   |



# NR Band n30 – Ant1



Plot 7-185. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-186. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 122 of 214                   |



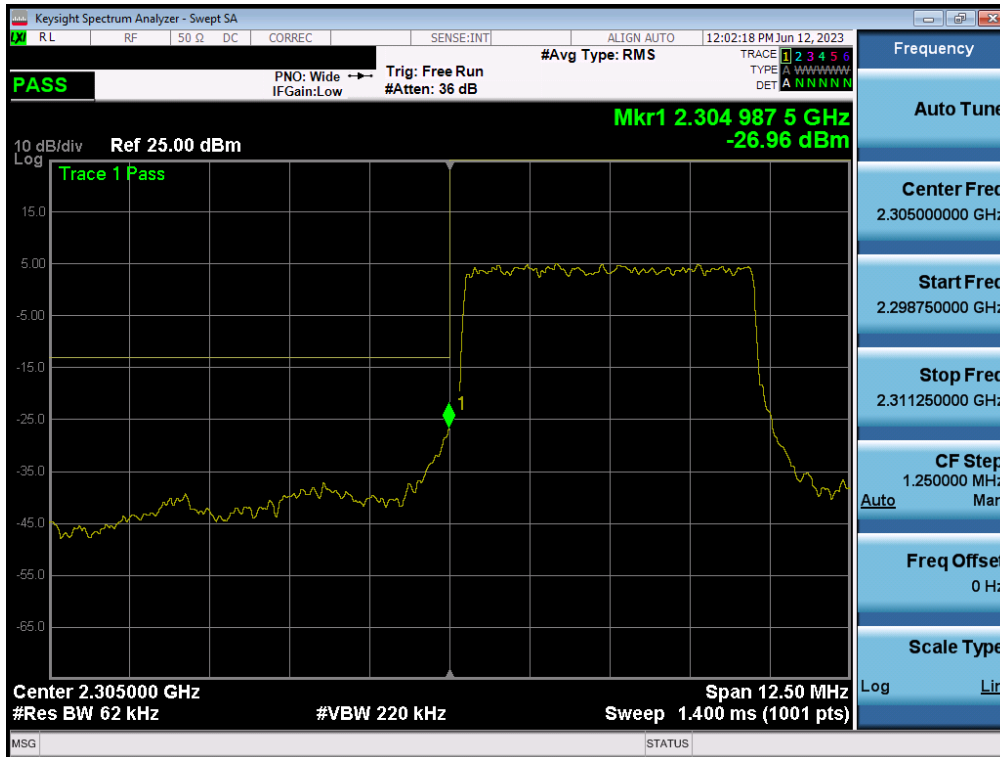


Plot 7-187. Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

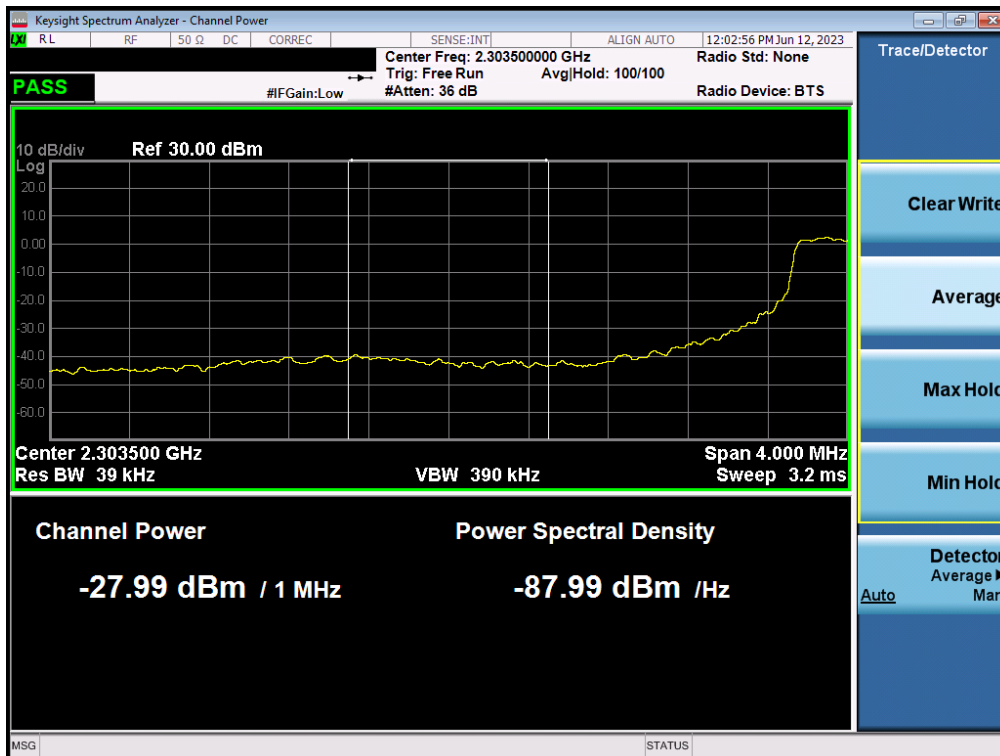


Plot 7-188. Extended Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 123 of 214                   |



Plot 7-189. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-190. Extended Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 124 of 214                   |



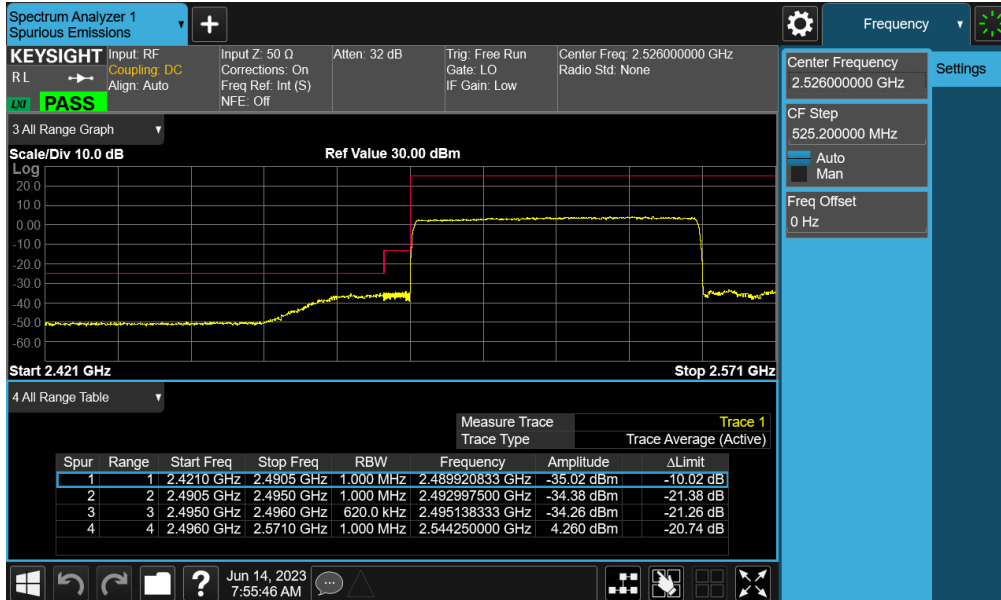
Plot 7-191. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant1)



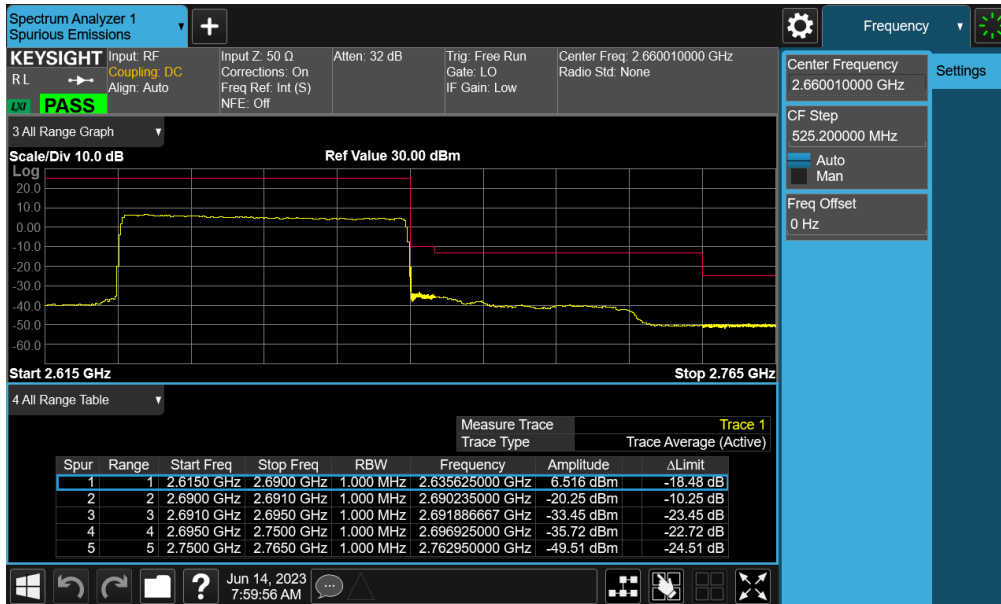
Plot 7-192. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant1)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 125 of 214                   |

# NR Band n41 – Ant1



Plot 7-193. Lower ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-194. Upper ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK – Full RB - Ant1)

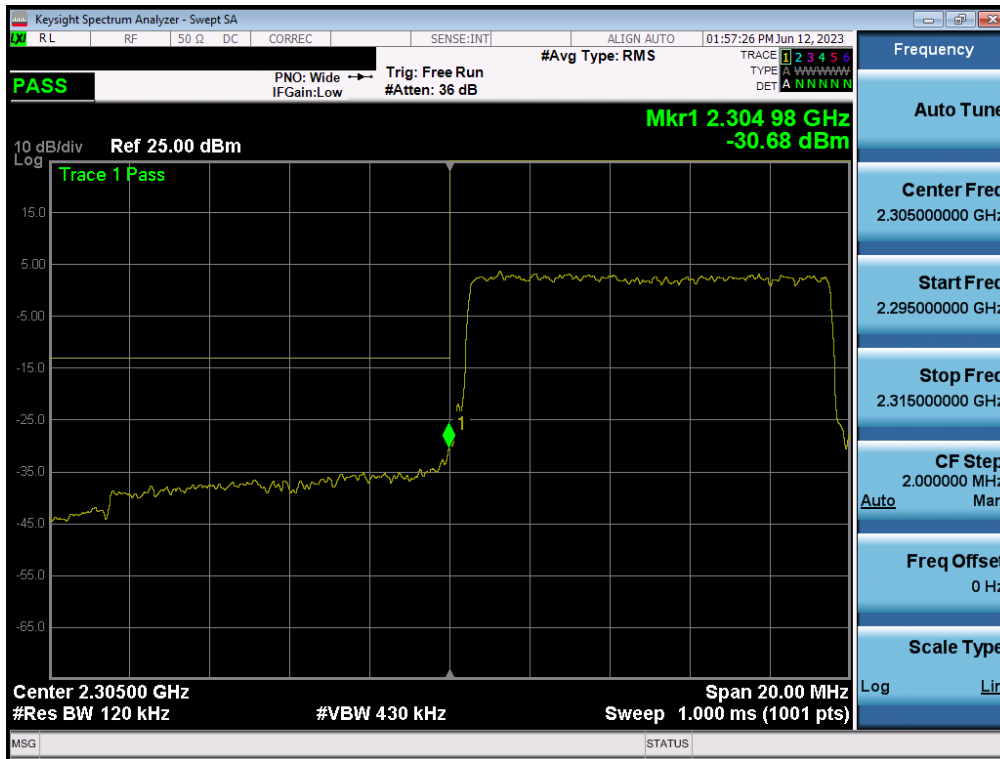
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 126 of 214                   |

| Mode             | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE B30          | 10 MHz    | Low     | Band Edge | -30.68      | -13         | -17.68      |
|                  |           | Low     | Extended  | -38.22      | -37         | -1.22       |
|                  |           | High    | Band Edge | -30.88      | -13         | -17.88      |
|                  |           | High    | Extended  | -39.68      | -37         | -2.68       |
|                  | 5 MHz     | Low     | Band Edge | -28.08      | -13         | -15.08      |
|                  |           | Low     | Extended  | -14.50      | -13         | -1.50       |
|                  |           | High    | Band Edge | -27.72      | -13         | -14.72      |
|                  |           | High    | Extended  | -43.39      | -37         | -6.39       |
| LTE B7           | 20 MHz    | Low     | Band Edge | -37.67      | -25         | -12.67      |
|                  |           | High    | Band Edge | -40.32      | -25         | -15.32      |
|                  | 15 MHz    | Low     | Band Edge | -37.62      | -25         | -12.62      |
|                  |           | High    | Band Edge | -36.85      | -25         | -11.85      |
|                  | 10 MHz    | Low     | Band Edge | -39.66      | -25         | -14.66      |
|                  |           | High    | Band Edge | -35.24      | -25         | -10.24      |
|                  | 5 MHz     | Low     | Band Edge | -38.29      | -25         | -13.29      |
|                  |           | High    | Band Edge | -34.51      | -25         | -9.51       |
| LTE B41 PC2      | 20 MHz    | Low     | Band Edge | -30.42      | -25         | -5.42       |
|                  |           | High    | Band Edge | -39.78      | -25         | -14.78      |
|                  | 15 MHz    | Low     | Band Edge | -30.70      | -25         | -5.70       |
|                  |           | High    | Band Edge | -34.63      | -25         | -9.63       |
|                  | 10 MHz    | Low     | Band Edge | -30.55      | -25         | -5.55       |
|                  |           | High    | Band Edge | -32.86      | -25         | -7.86       |
|                  | 5 MHz     | Low     | Band Edge | -35.72      | -25         | -10.72      |
|                  |           | High    | Band Edge | -31.98      | -25         | -6.98       |
| LTE B41 PC3      | 20 MHz    | Low     | Band Edge | -30.49      | -25         | -5.49       |
|                  |           | High    | Band Edge | -39.95      | -25         | -14.95      |
|                  | 15 MHz    | Low     | Band Edge | -30.58      | -25         | -5.58       |
|                  |           | High    | Band Edge | -34.95      | -25         | -9.95       |
|                  | 10 MHz    | Low     | Band Edge | -28.17      | -25         | -3.17       |
|                  |           | High    | Band Edge | -32.49      | -25         | -7.49       |
|                  | 5 MHz     | Low     | Band Edge | -34.12      | -25         | -9.12       |
|                  |           | High    | Band Edge | -31.23      | -25         | -6.23       |
| LTE-B41 PC2 ULCA | 20+20MHz  | Low     | Band Edge | -27.57      | -25         | -2.57       |
|                  |           | High    | Band Edge | -34.25      | -25         | -9.25       |
|                  |           | Low     | Band Edge | -27.57      | -25         | -2.57       |
|                  |           | High    | Band Edge | -34.25      | -25         | -9.25       |
| LTE-B41 PC3 ULCA | 20+20MHz  | Low     | Band Edge | -28.10      | -25         | -3.10       |
|                  |           | High    | Band Edge | -35.14      | -25         | -10.14      |
|                  |           | Low     | Band Edge | -28.10      | -25         | -3.10       |
|                  |           | High    | Band Edge | -35.14      | -25         | -10.14      |

Table 7-195. Band Edge Emissions Test Results (Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 127 of 214                   |

## LTE Band 30 – Ant2



Plot 7-196. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant2)

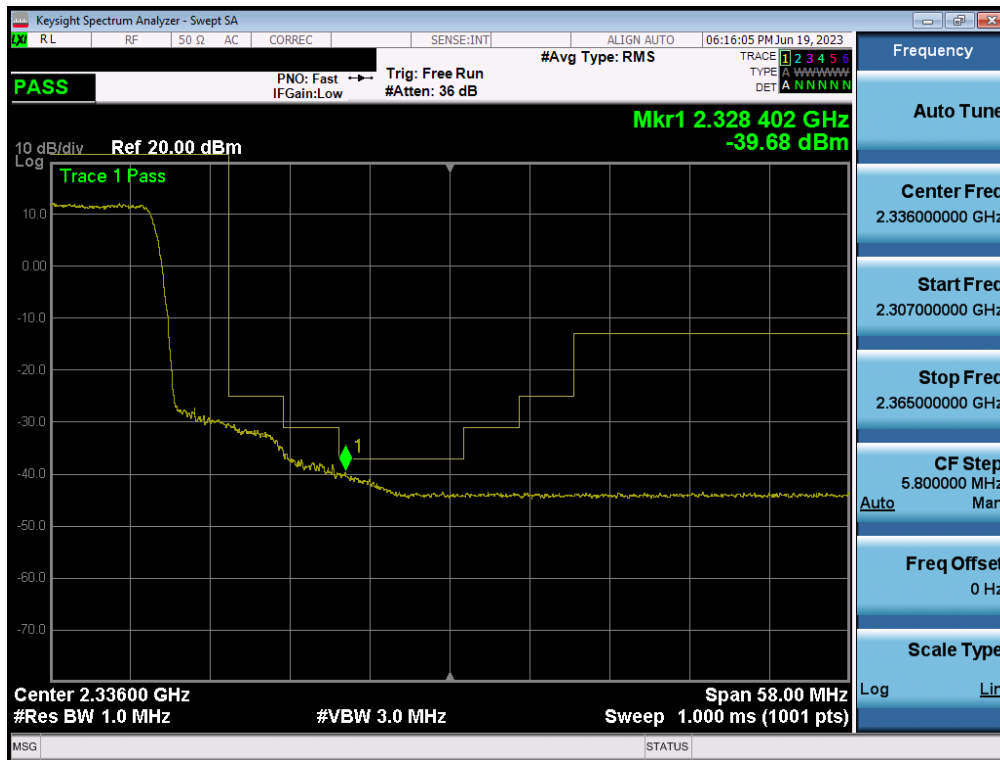


Plot 7-197. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 128 of 214                   |



Plot 7-198. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant2)

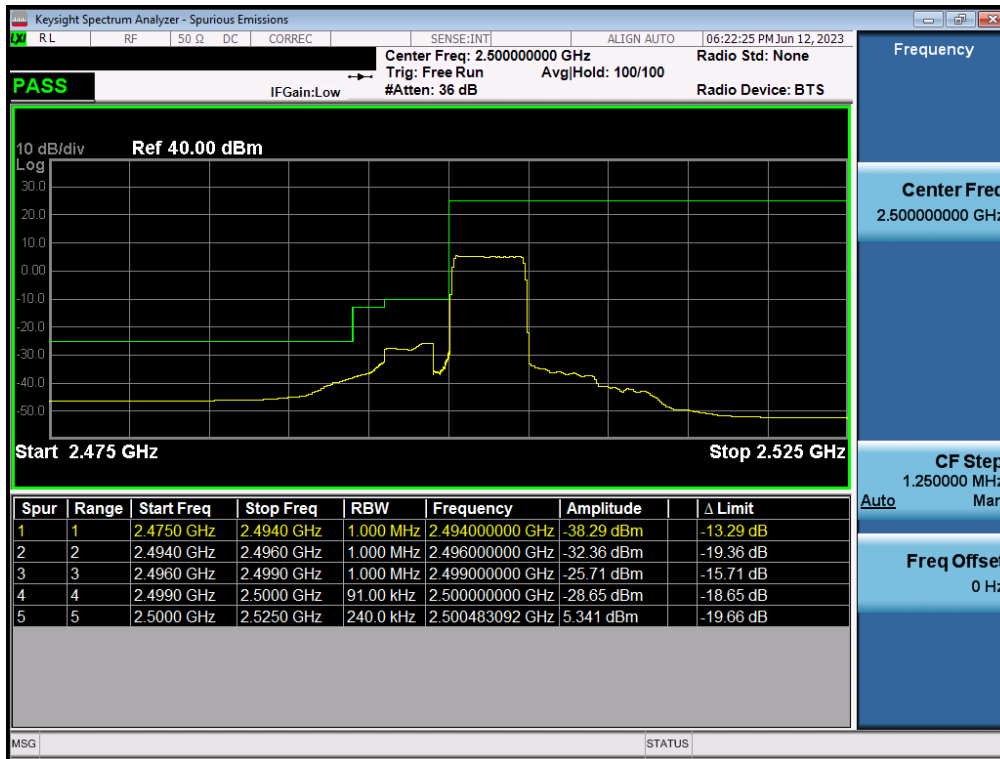


Plot 7-199. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Ant2)

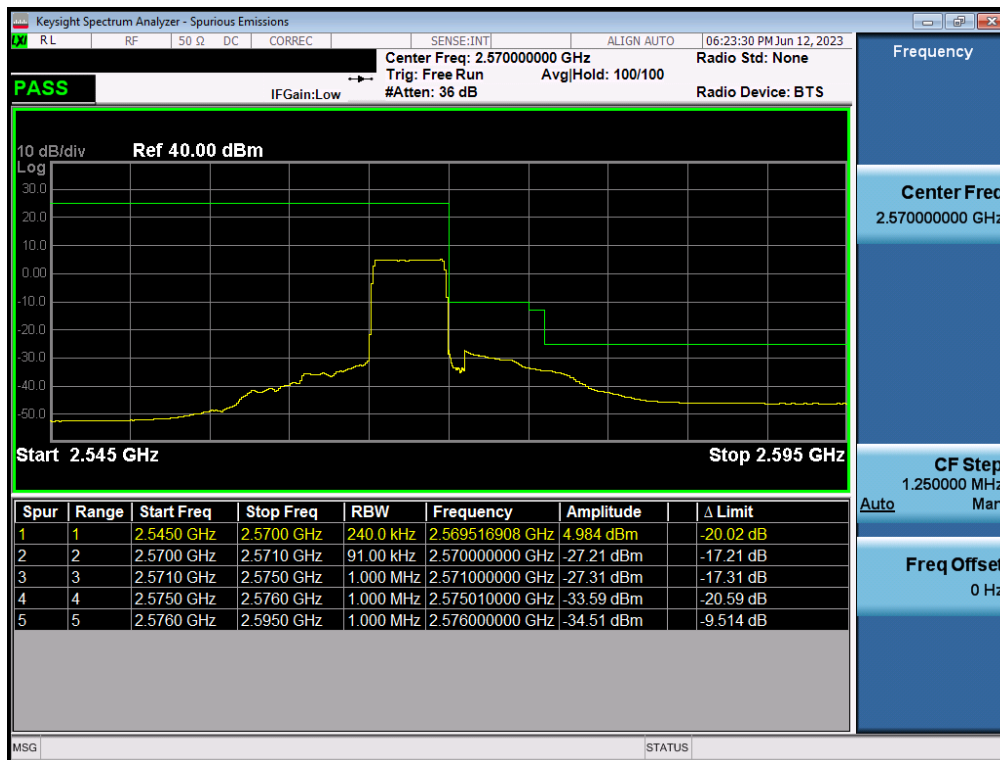
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 129 of 214                   |



# LTE Band 7 – Ant2



Plot 7-200. Lower ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB - Ant2)

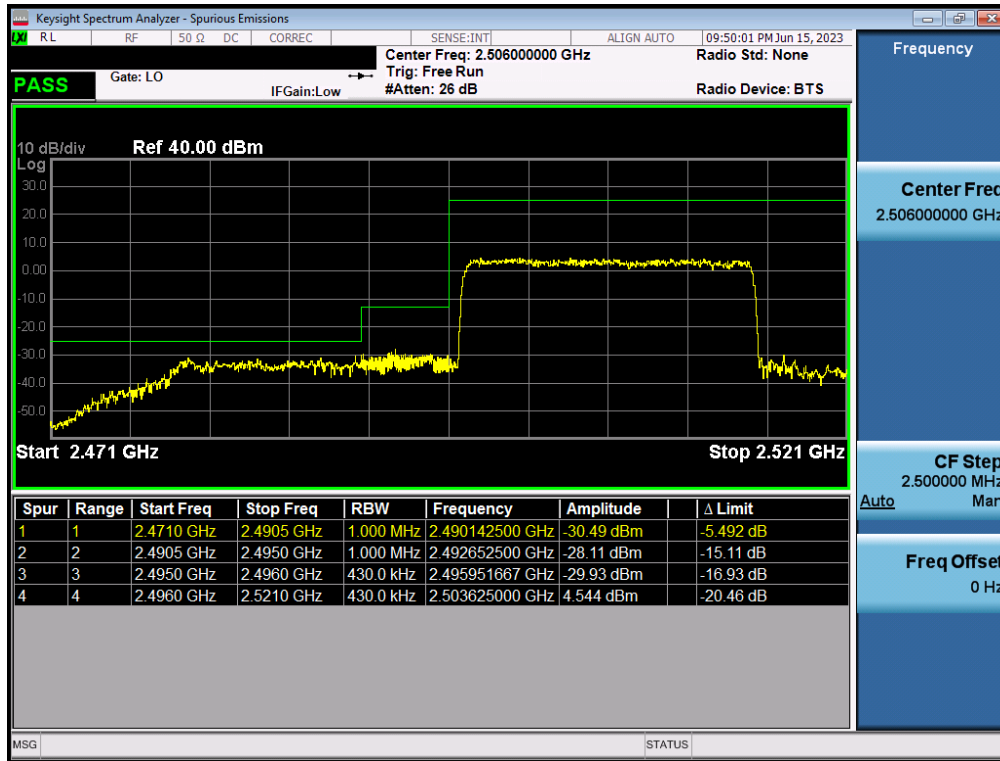


Plot 7-201. Upper ACP Plot (LTE Band 7 - 5MHz QPSK – Full RB - Ant2)

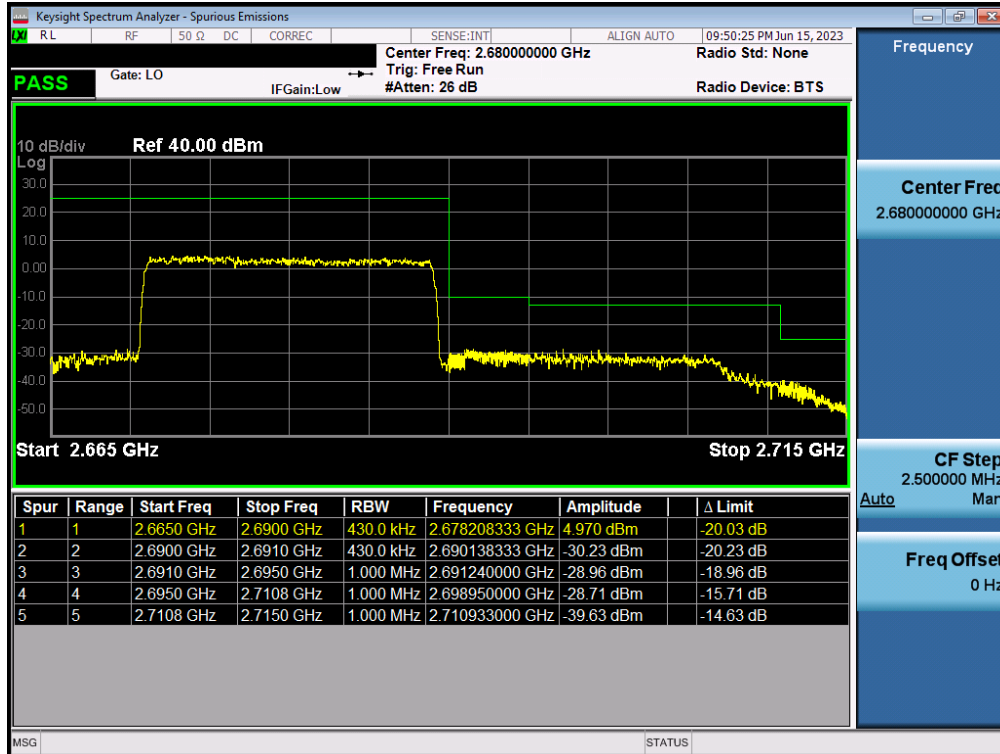
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 130 of 214                   |



# LTE Band 41(PC2) – Ant2



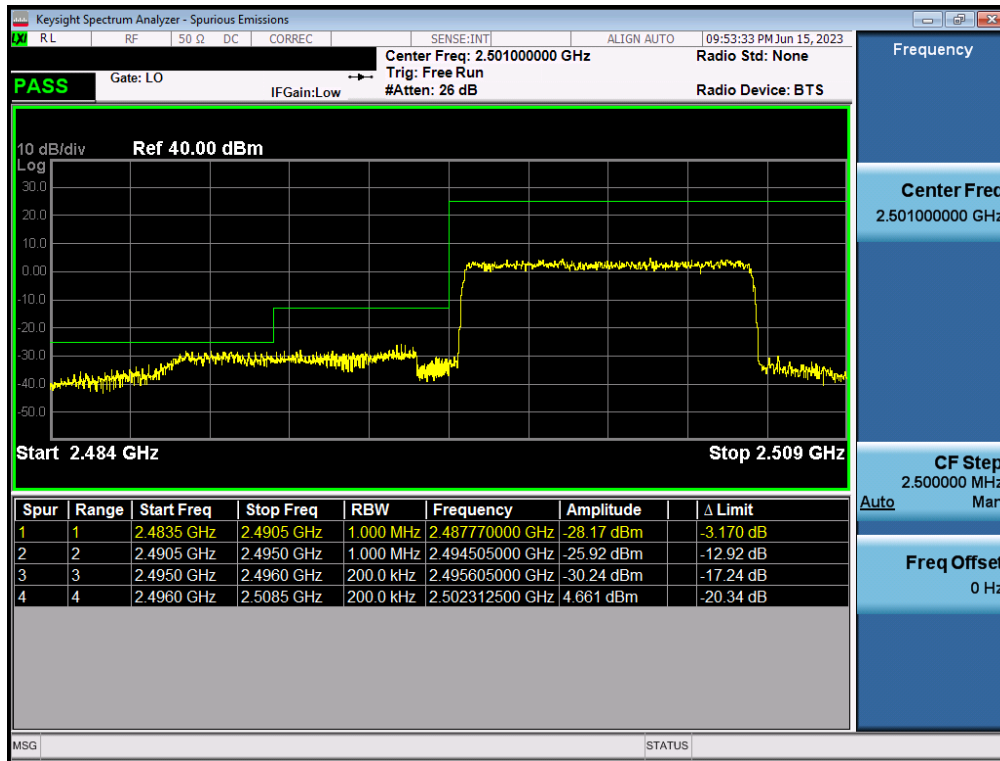
Plot 7-202. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant2)



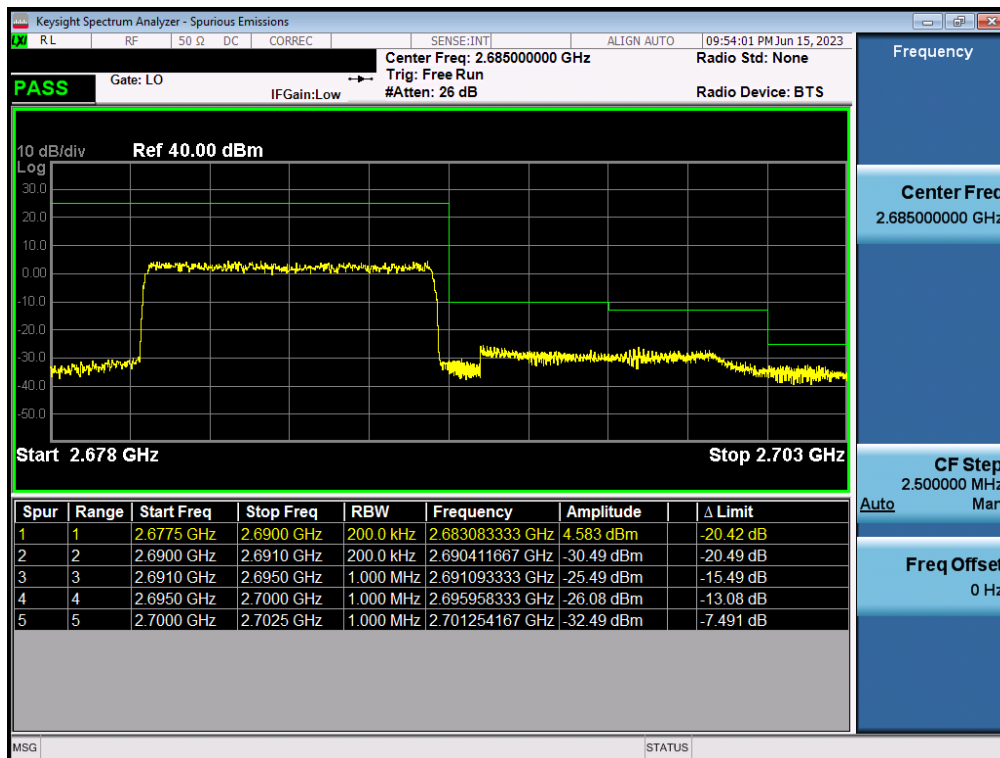
Plot 7-203. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant2)

| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 131 of 214                   |

# LTE Band 41(PC3) – Ant2



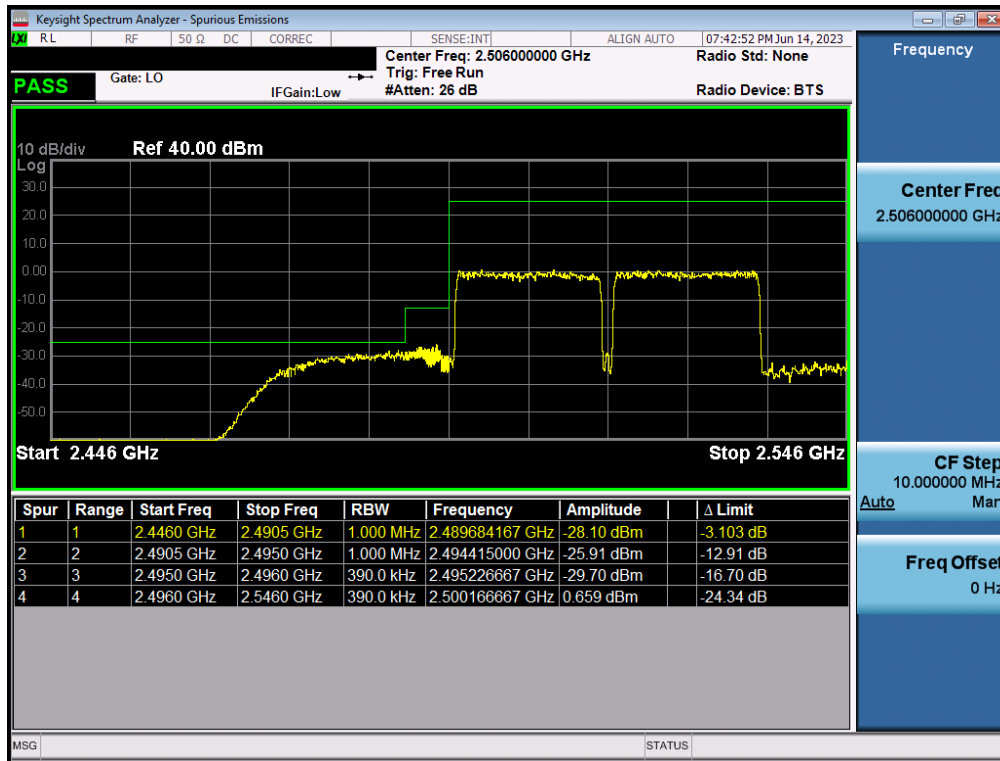
Plot 7-204. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)



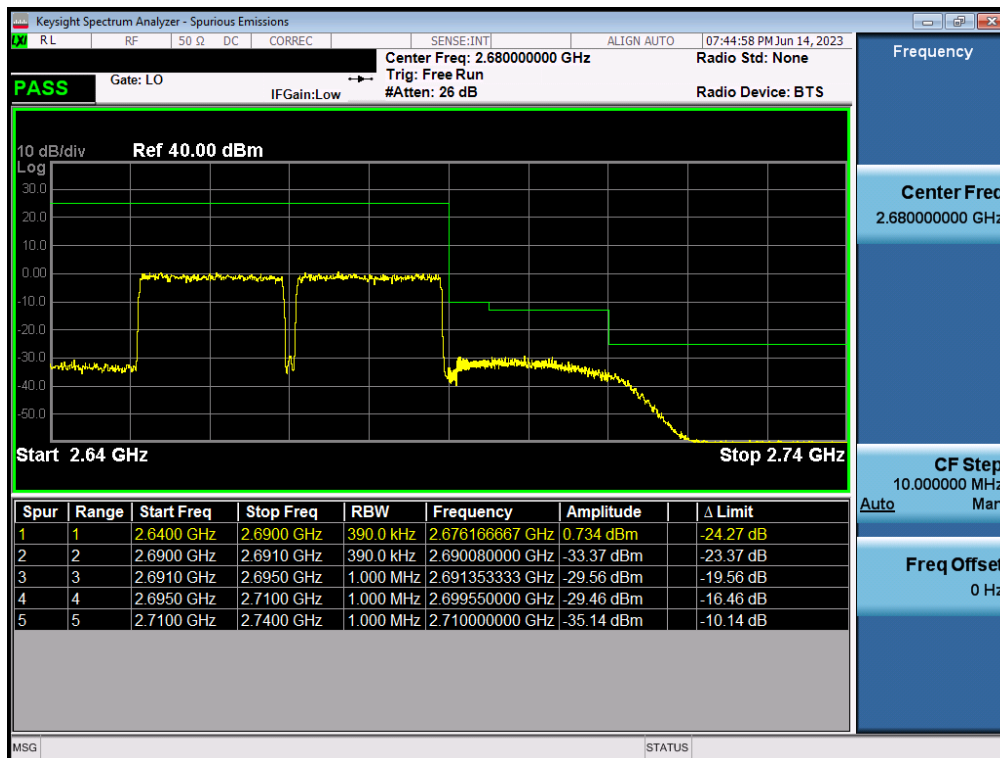
Plot 7-205. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 132 of 214                   |

# ULCA - LTE Band 41(PC2) – Ant2



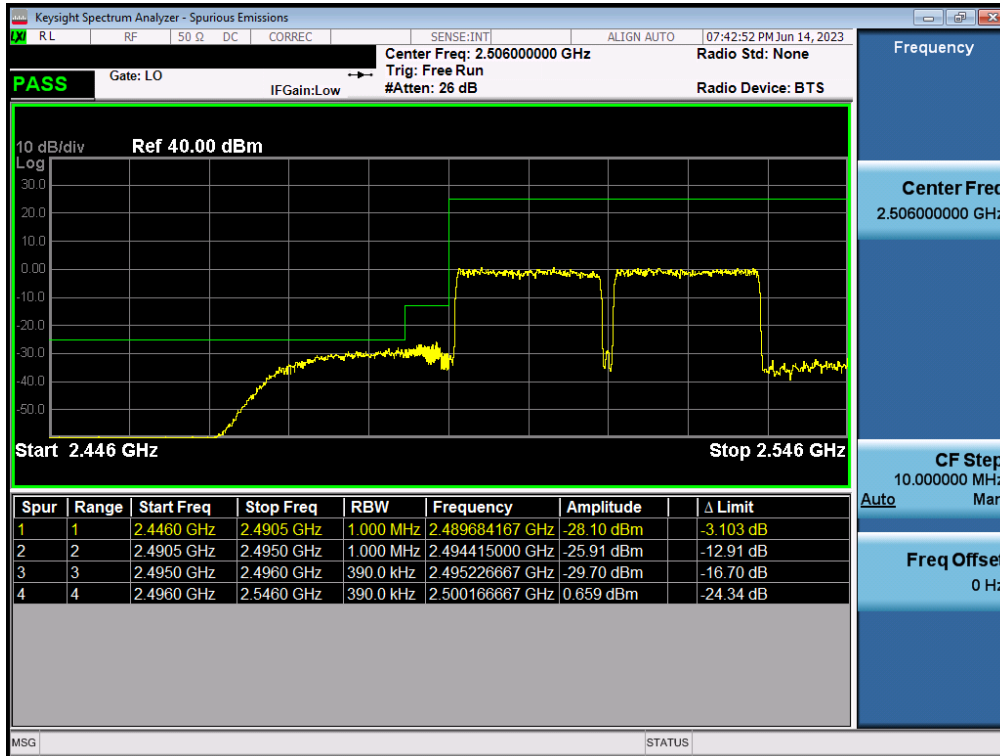
Plot 7-206. Lower ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB - Ant2)



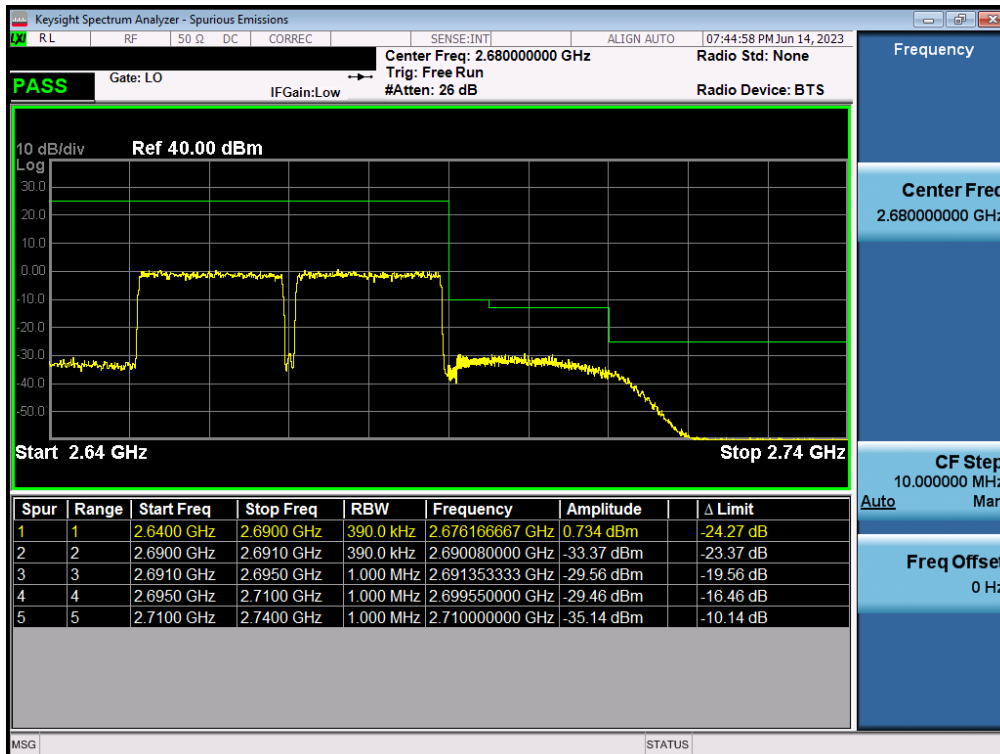
Plot 7-207. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 133 of 214                   |

# ULCA - LTE Band 41(PC3) – Ant2



Plot 7-208. Lower ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant2)



Plot 7-209. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant2)

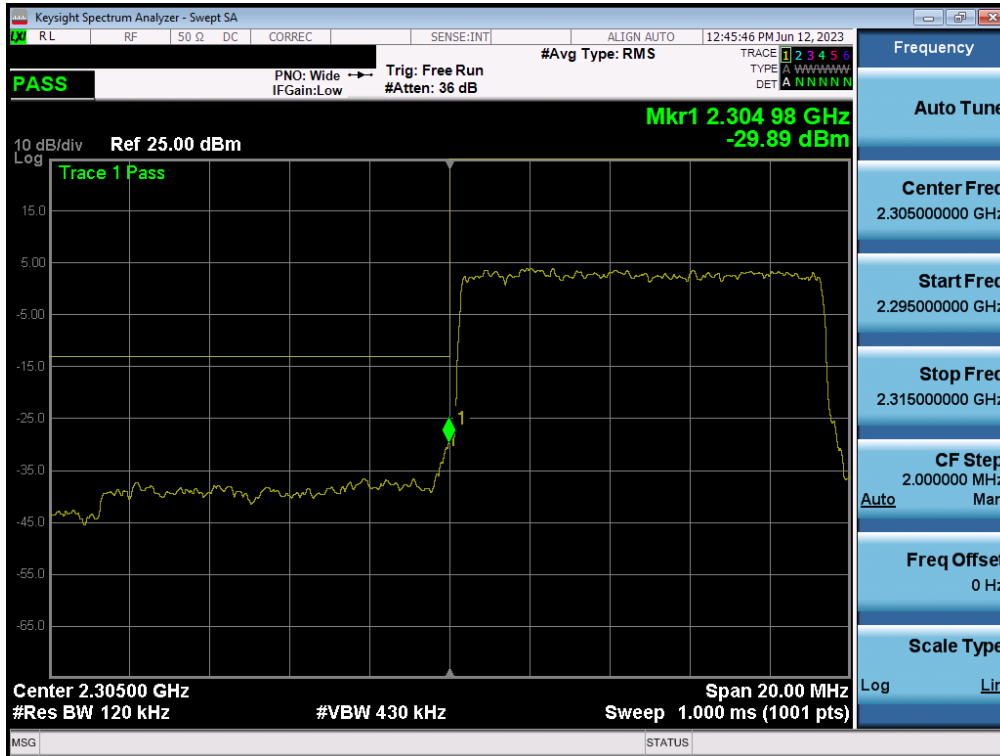
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 134 of 214                   |

| Mode   | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-----------|-------------|-------------|-------------|
| NR n30 | 10 MHz    | Low     | Band Edge | -29.89      | -13         | -16.89      |
|        |           | Low     | Extended  | -38.63      | -37         | -1.63       |
|        |           | High    | Band Edge | -28.91      | -13         | -15.91      |
|        |           | High    | Extended  | -38.13      | -37         | -1.13       |
|        | 5 MHz     | Low     | Band Edge | -22.29      | -13         | -9.29       |
|        |           | Low     | Extended  | -14.08      | -13         | -1.08       |
|        |           | High    | Band Edge | -25.52      | -13         | -12.52      |
|        |           | High    | Extended  | -32.66      | -25         | -7.66       |
| NR-n41 | 100 MHz   | Low     | Band Edge | -40.03      | -25         | -15.03      |
|        |           | High    | Band Edge | -30.49      | -10         | -20.49      |

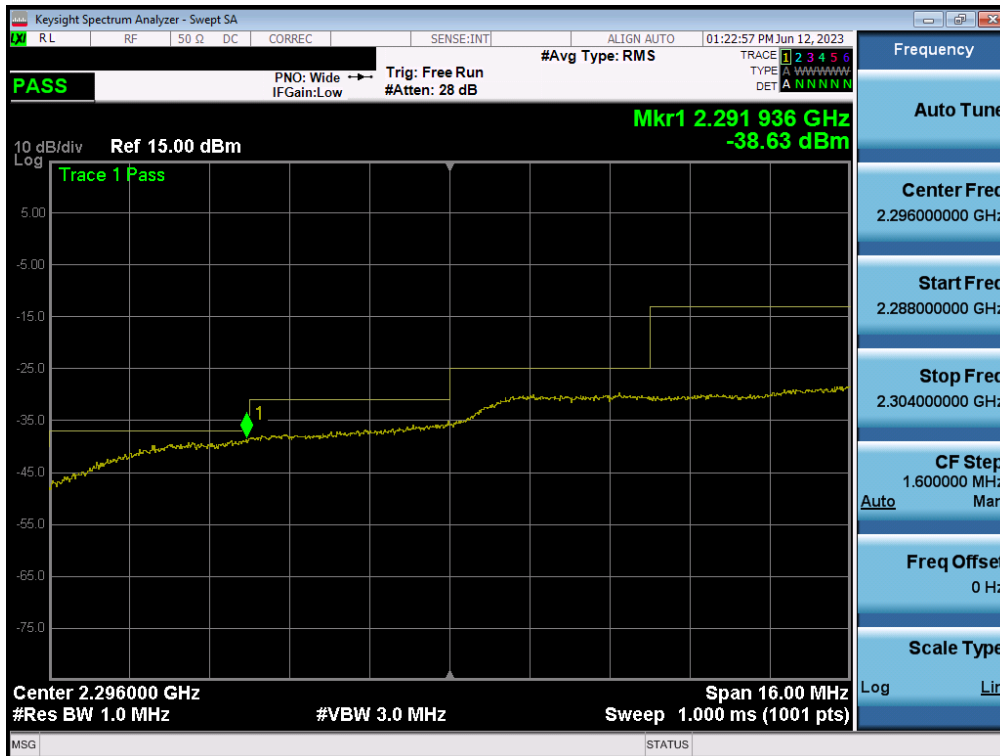
Table 7-210. Band Edge Emissions Test Results (Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 135 of 214                   |

## NR Band n30 – Ant2

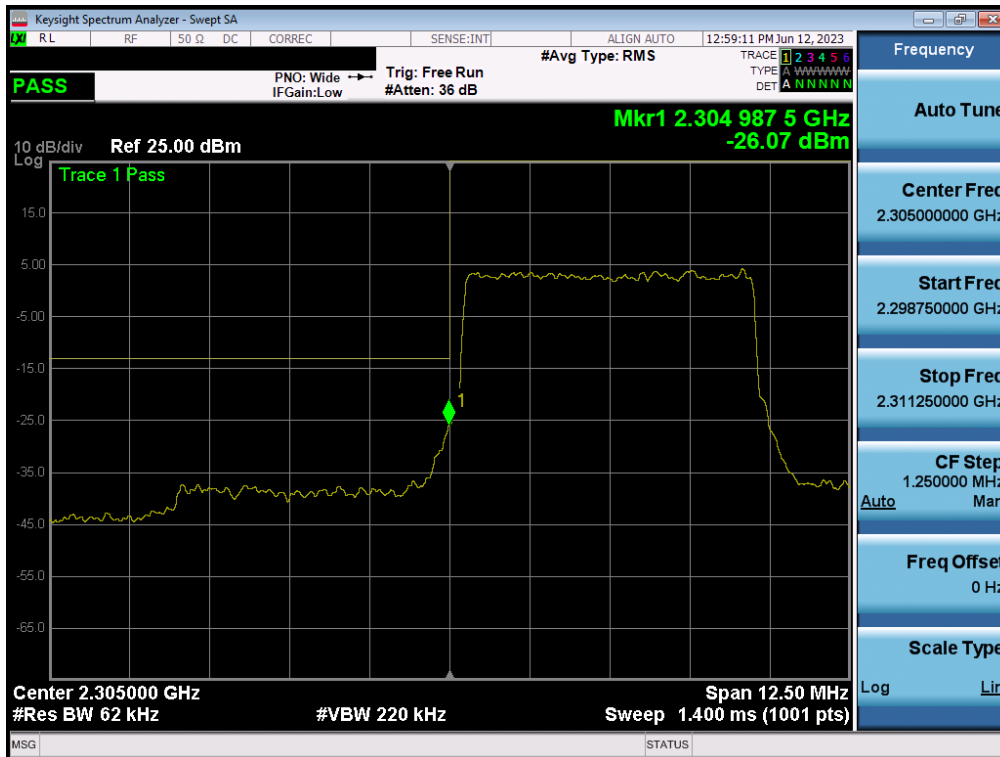


Plot 7-211. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant2)

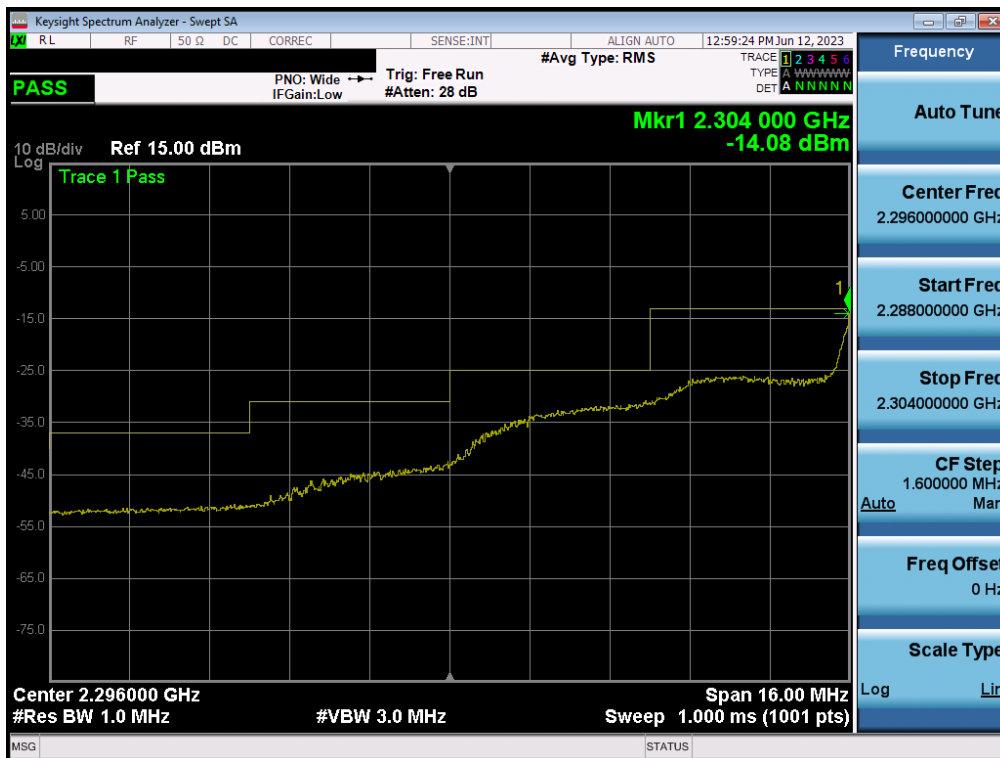


Plot 7-212. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Ant2)

| FCC ID: A3LSMS711U                      |                                      | PART 27 MEASUREMENT REPORT    |                 | Approved by:<br>Technical Manager |
|---|--------------------------------------|-------------------------------|-----------------|-----------------------------------|
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 136 of 214 |                                   |



Plot 7-213. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant2)



Plot 7-214. Extended Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 137 of 214                   |

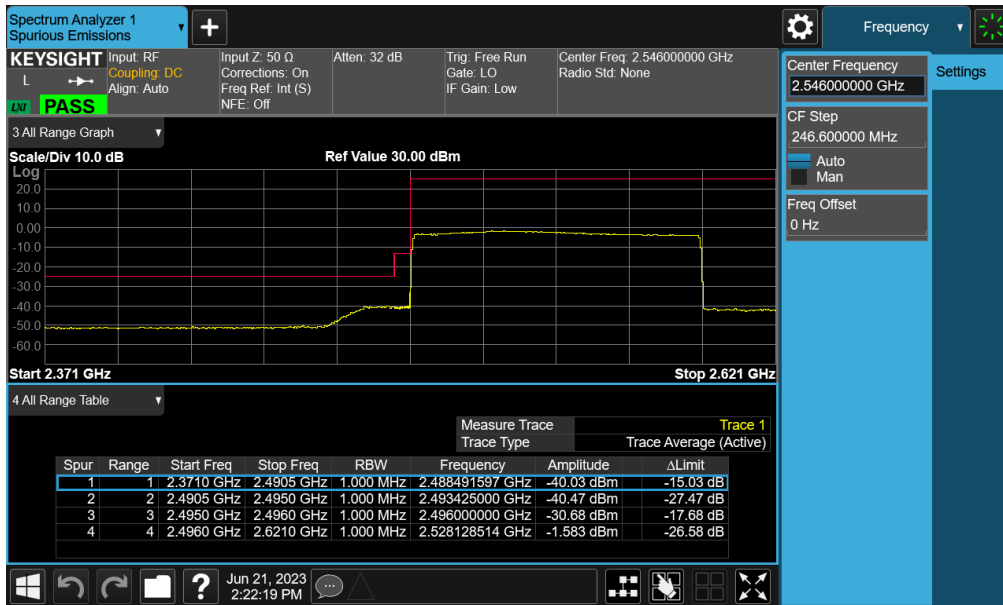


Plot 7-215. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant2)

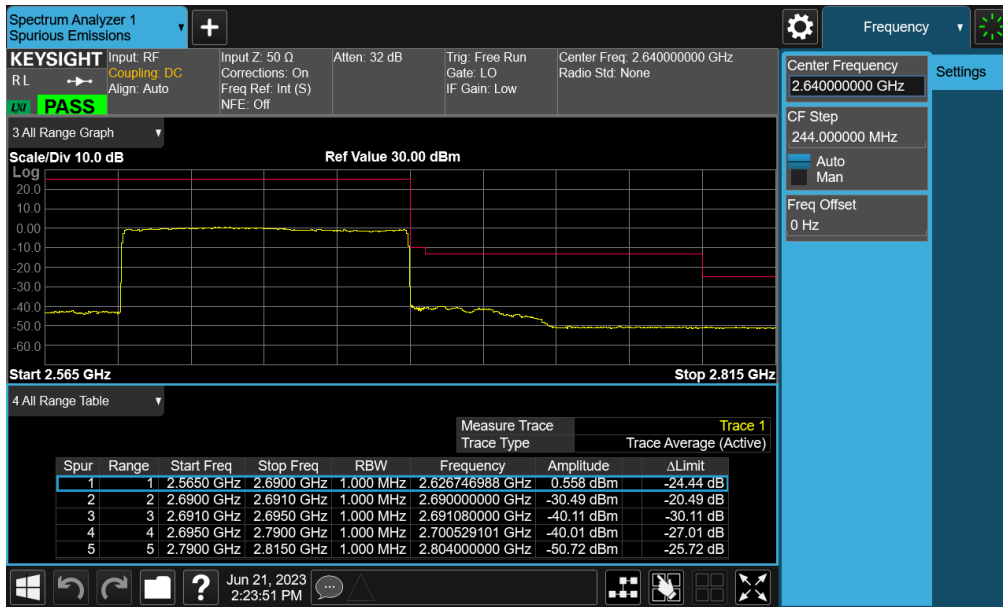
|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 138 of 214                   |



# NR Band n41 – Ant2



Plot 7-216. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant2)



Plot 7-217. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB - Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 139 of 214                   |

| Mode   | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n41 | 100 MHz   | Low     | Band Edge | -40.25      | -25         | -15.25      |
|        |           | High    | Band Edge | -31.66      | -10         | -21.66      |

Table 7-218. Band Edge Emissions Test Results (Ant2)

|   |                                      |                               |                                   |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS711U                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2304260060-08.A3L | Test Dates:<br>5/24/2023 - 7/31/2023 | EUT Type:<br>Portable Handset | Page 140 of 214                   |