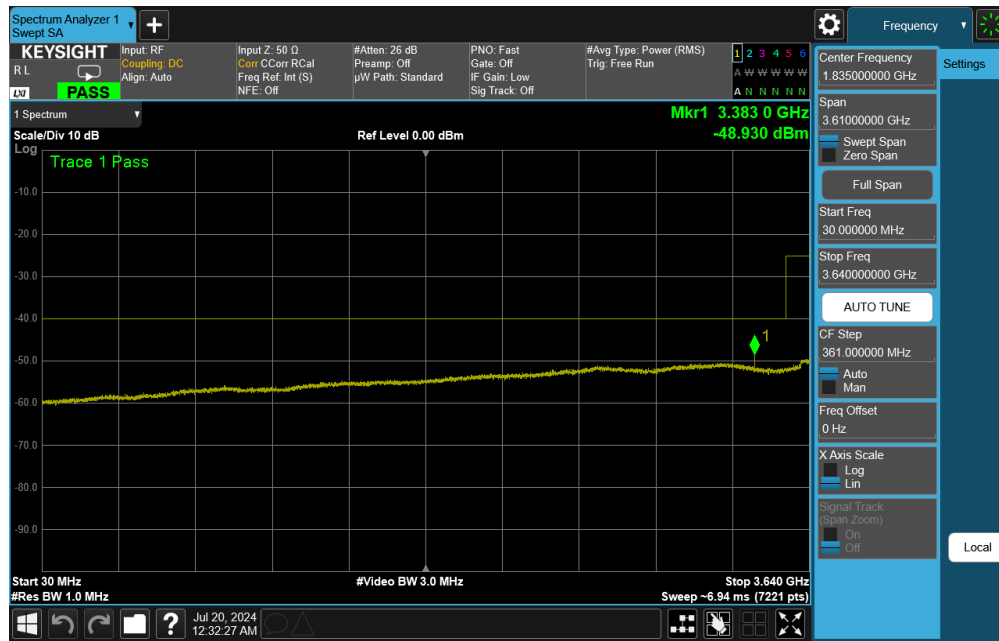
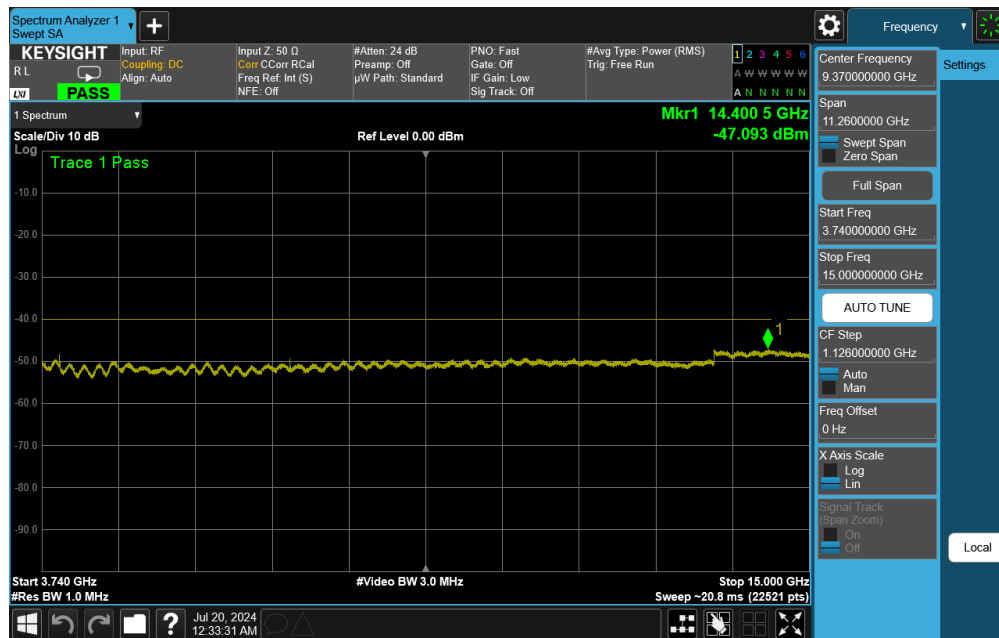




Plot 7-66. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

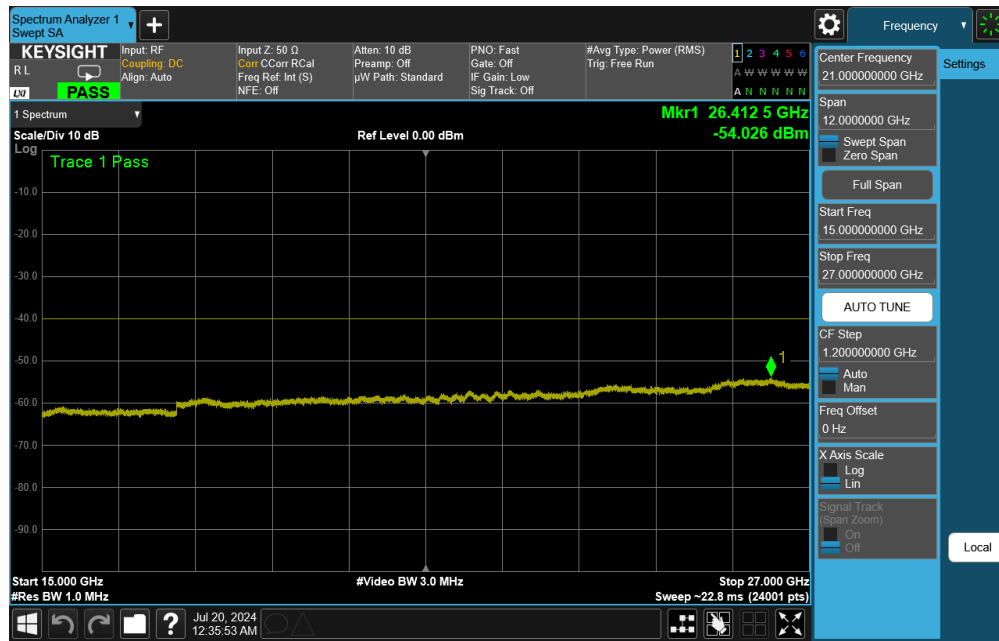


Plot 7-67. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

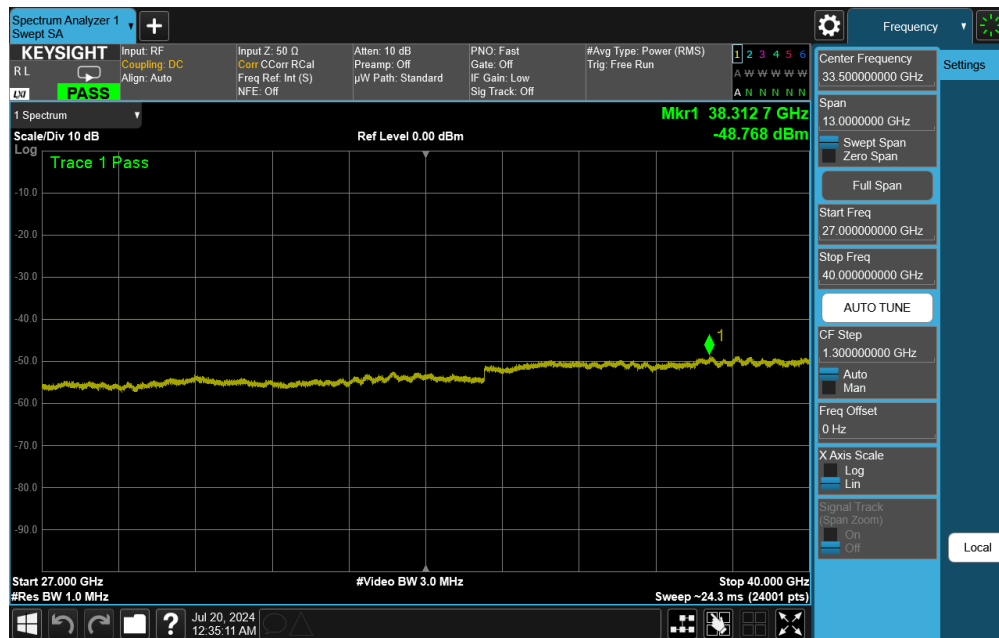
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device	Page 50 of 140

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Plot 7-68. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)



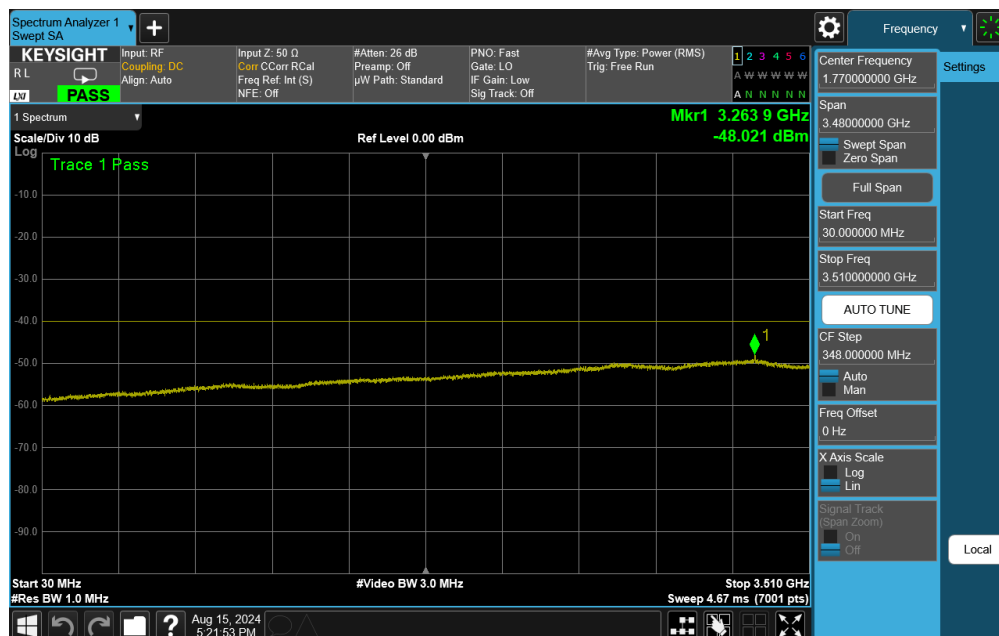
Plot 7-69. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - High Channel)

FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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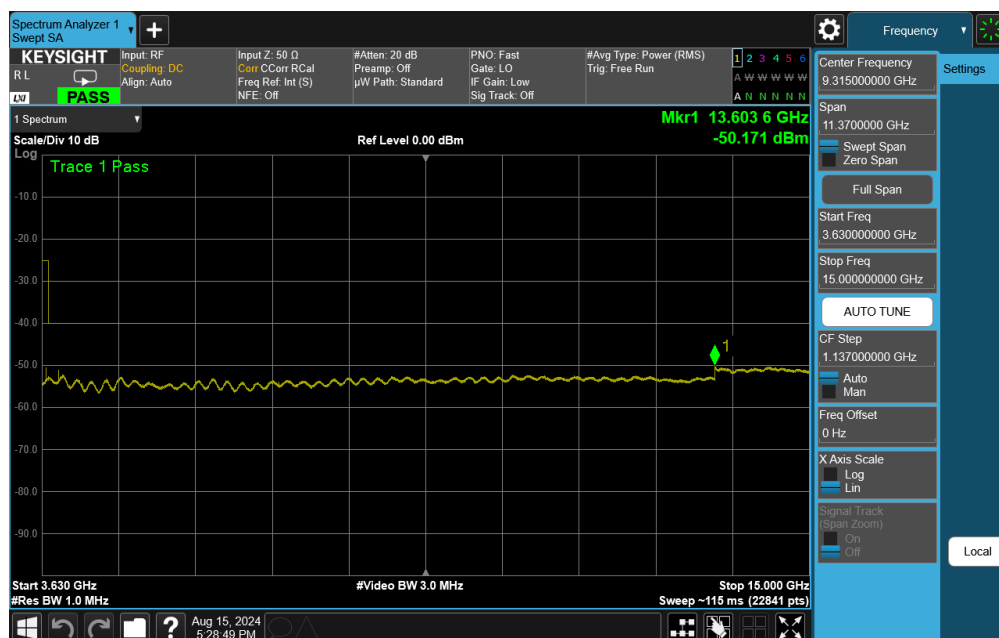
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ULCA LTE Band 48



Plot 7-70. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Low Channel)

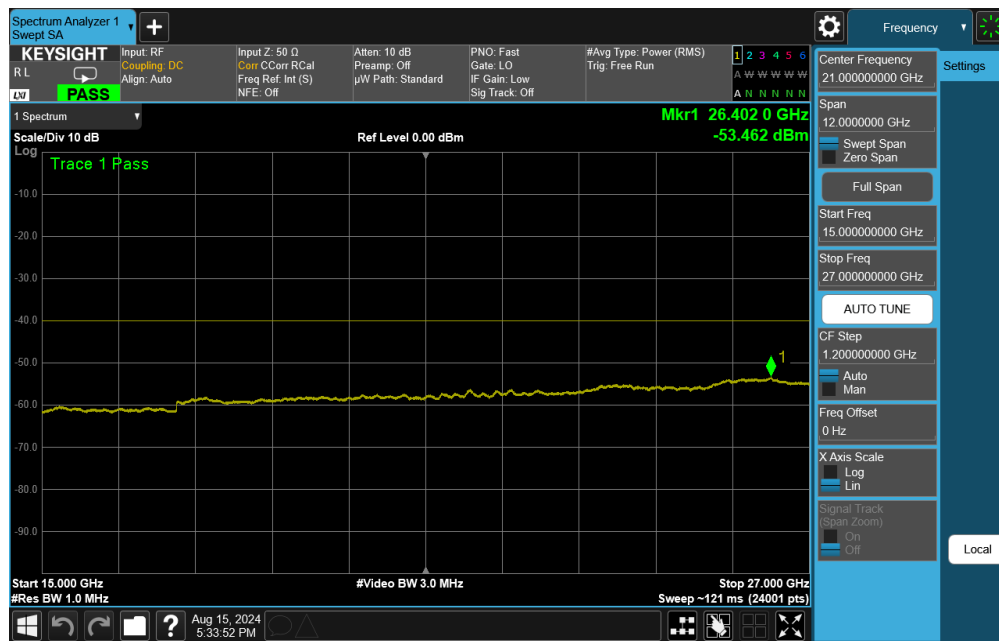


Plot 7-71. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Low Channel)

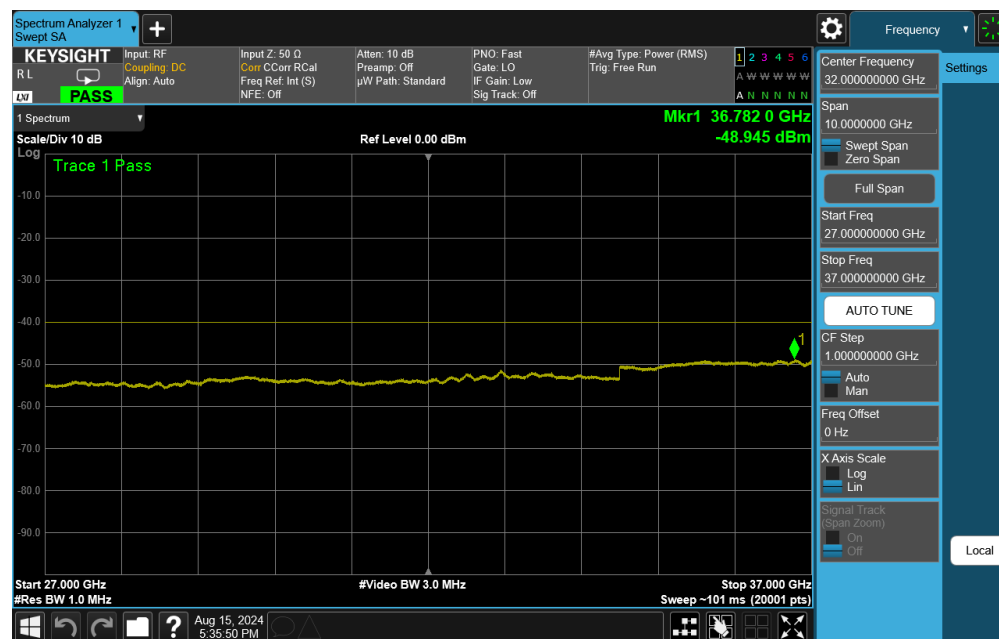
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device
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Plot 7-72. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Low Channel)

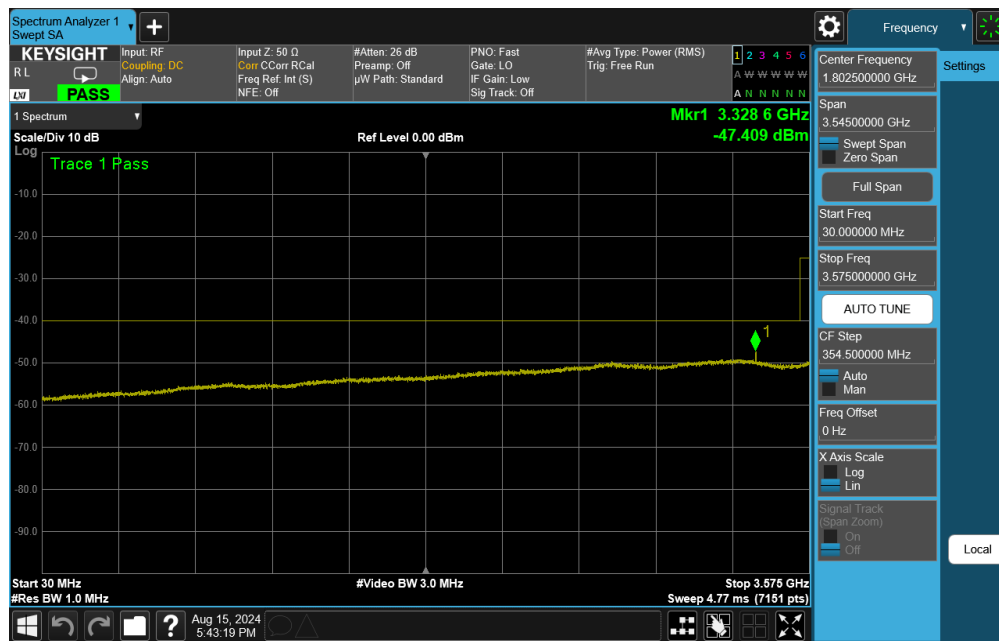


Plot 7-73. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Low Channel)

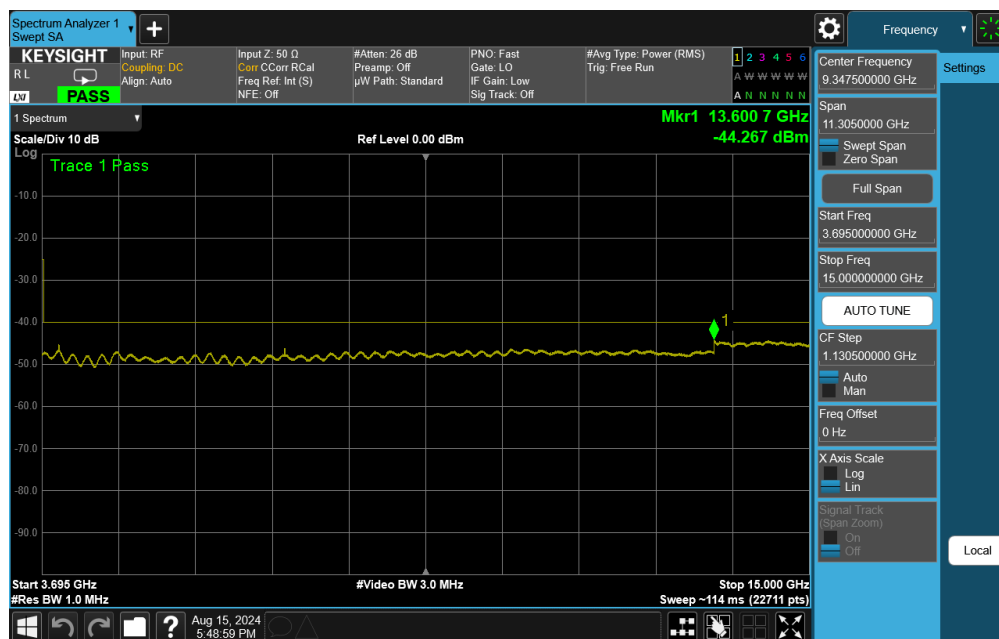
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device	Page 53 of 140

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Plot 7-74. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Mid Channel)

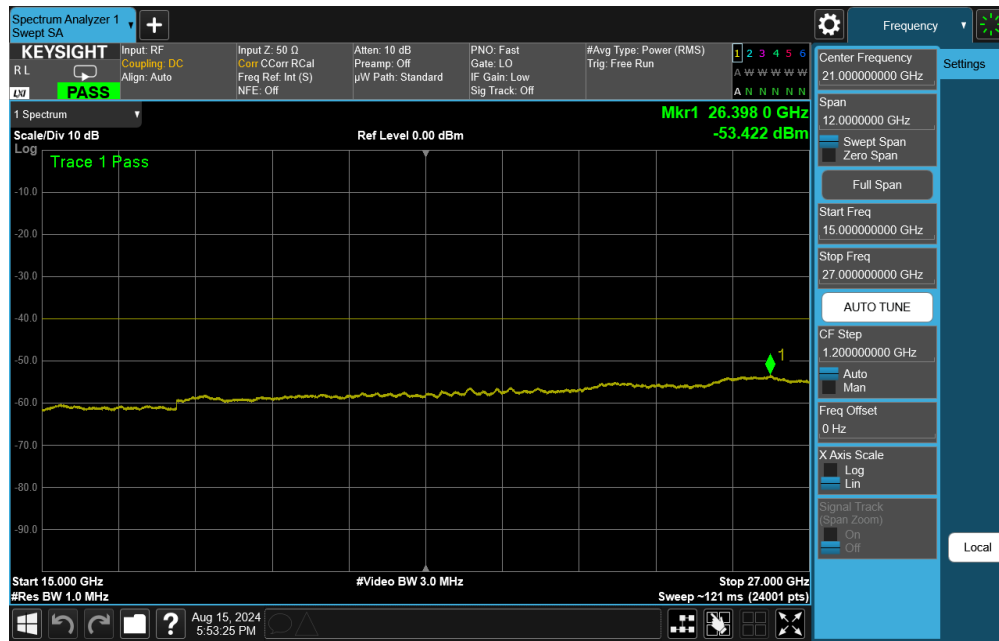


Plot 7-75. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Mid Channel)

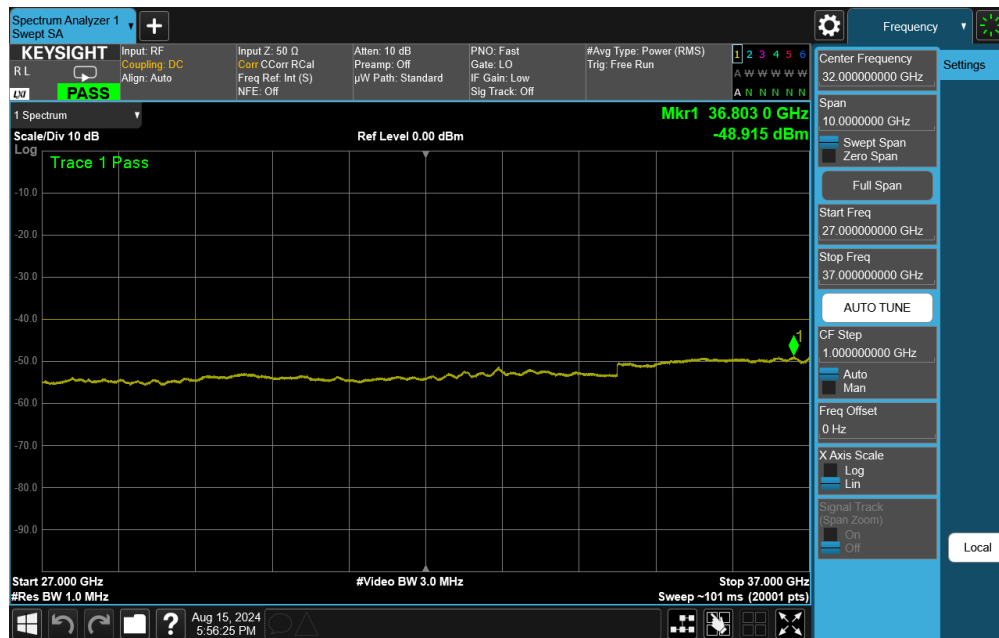
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device	Page 54 of 140

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Plot 7-76. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Mid Channel)

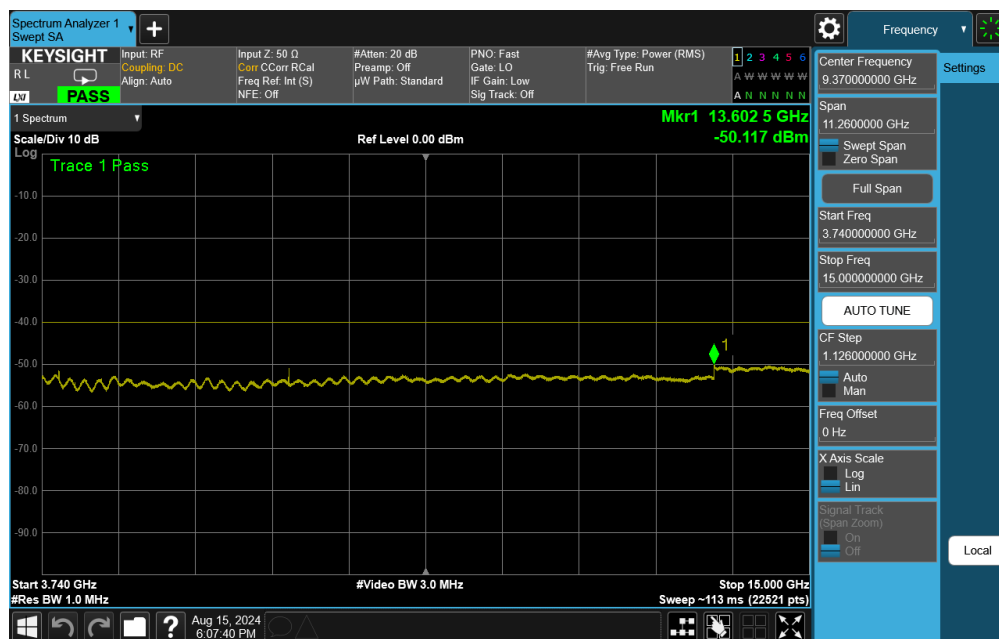
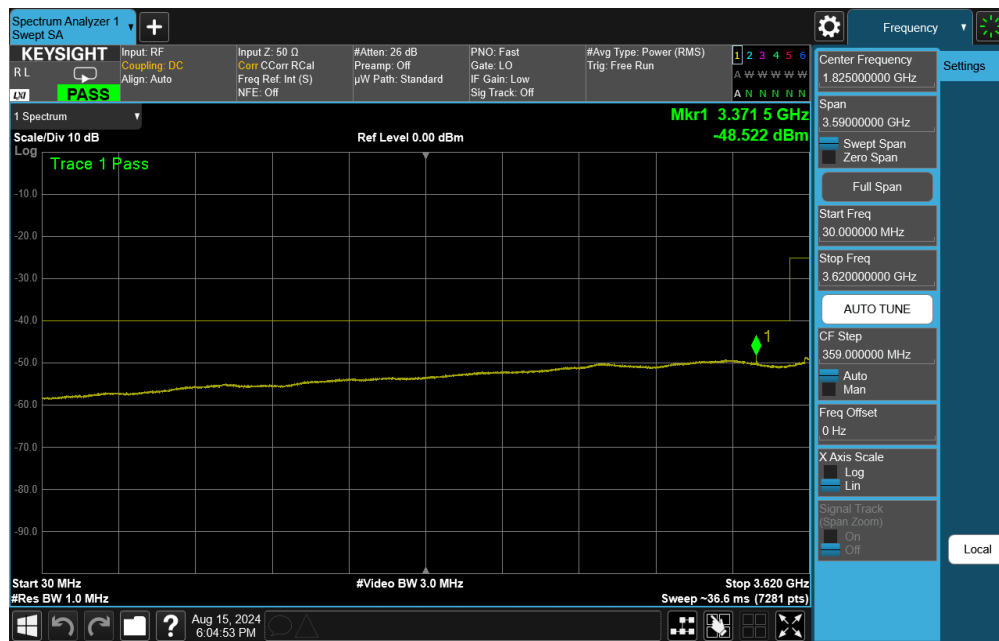


Plot 7-77. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Mid Channel)

FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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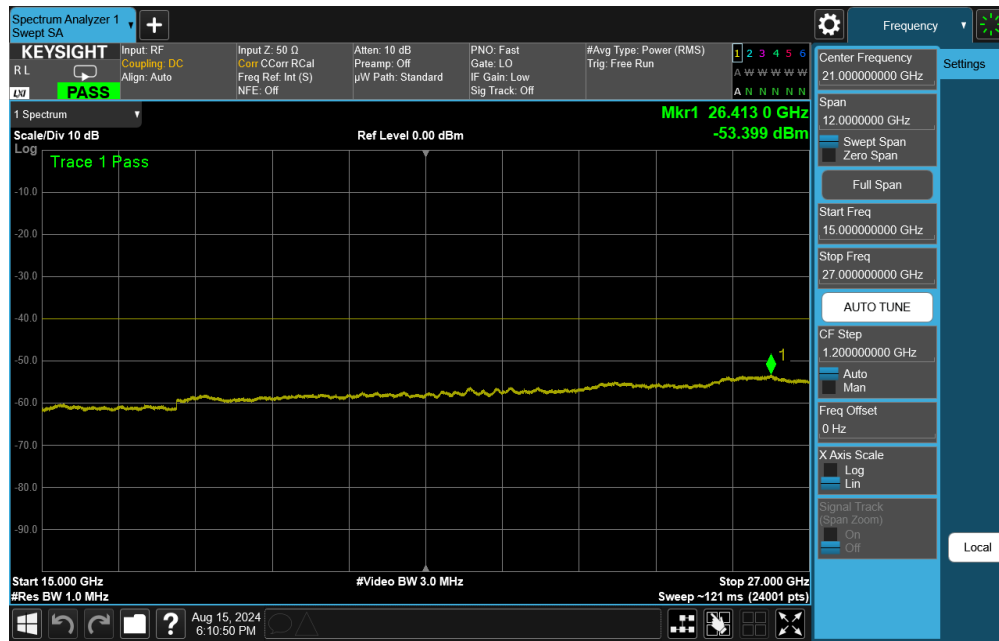
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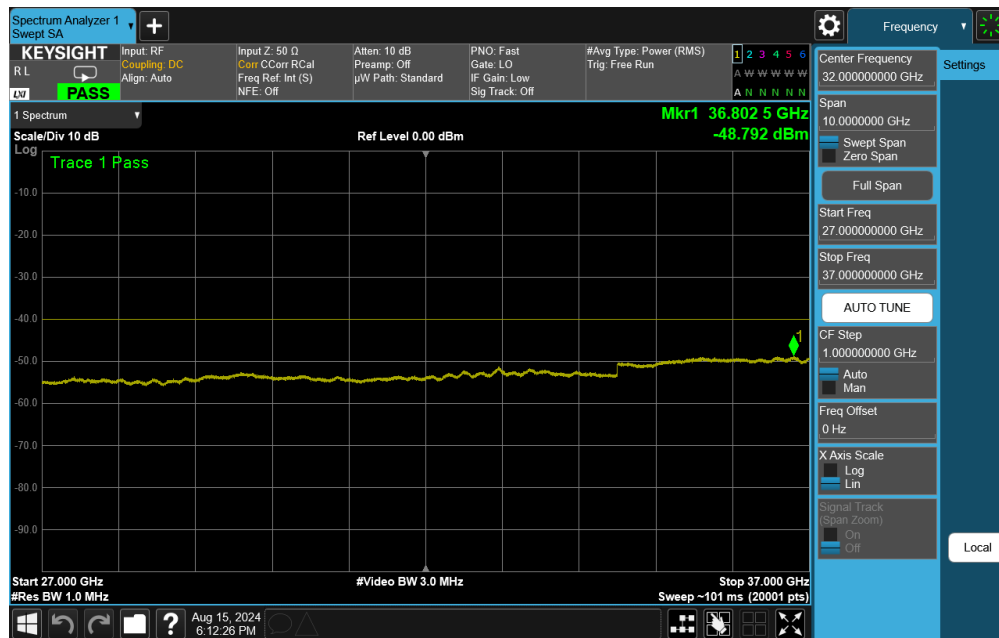
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-80. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - High Channel)



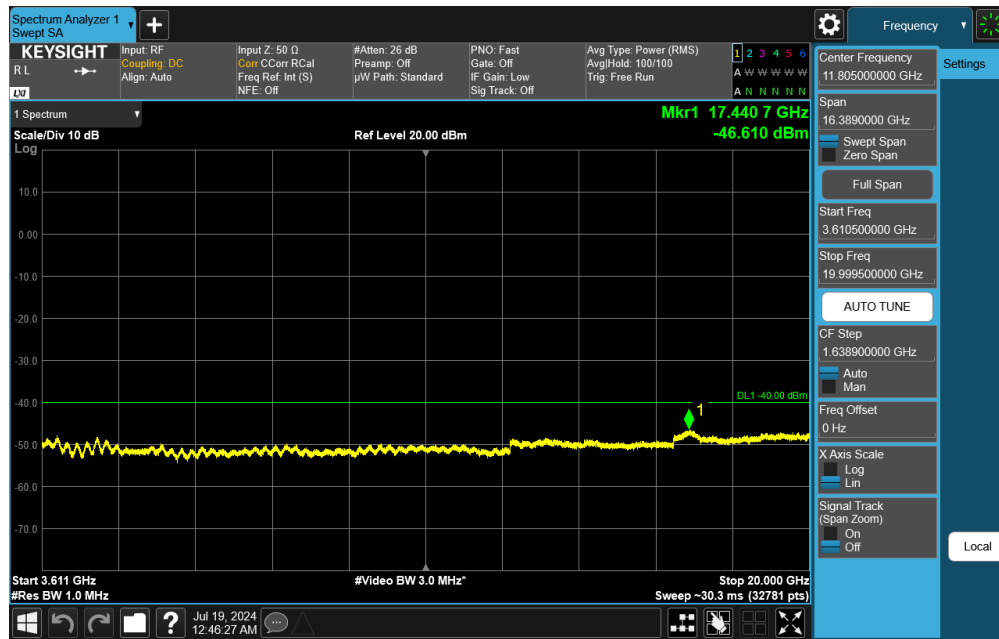
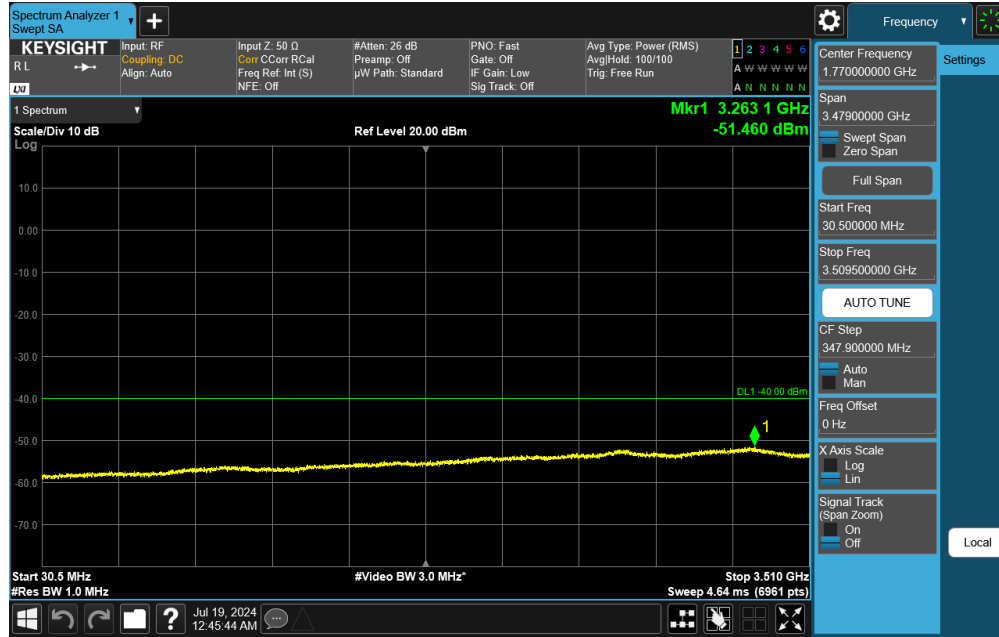
Plot 7-81. Conducted Spurious Plot (ULCA LTE Band 48 - 20+20MHz QPSK - High Channel)

FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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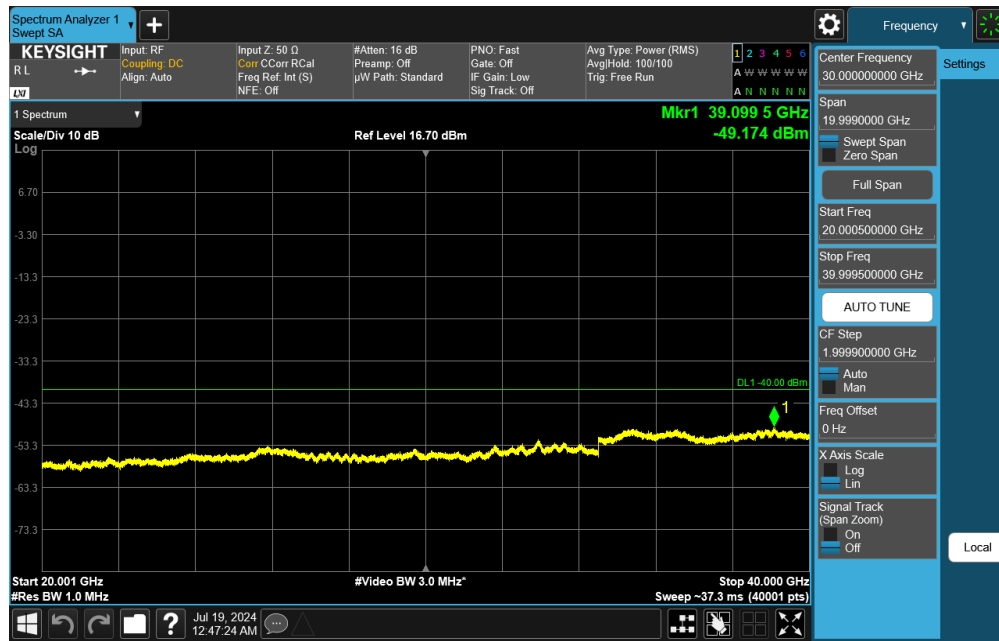
NR Band n48



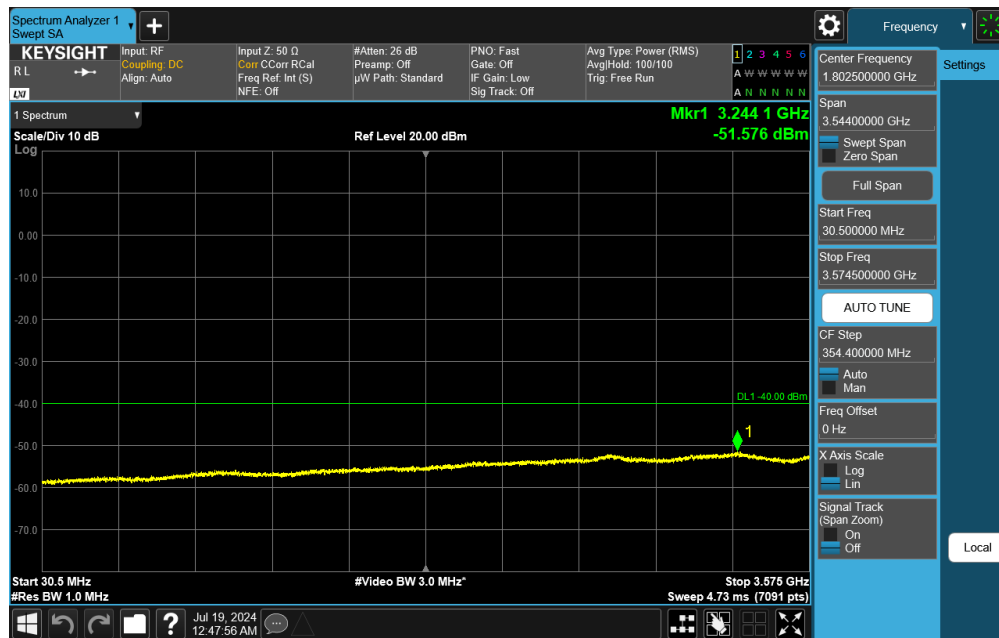
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-84. Conducted Spurious Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - Low Channel)

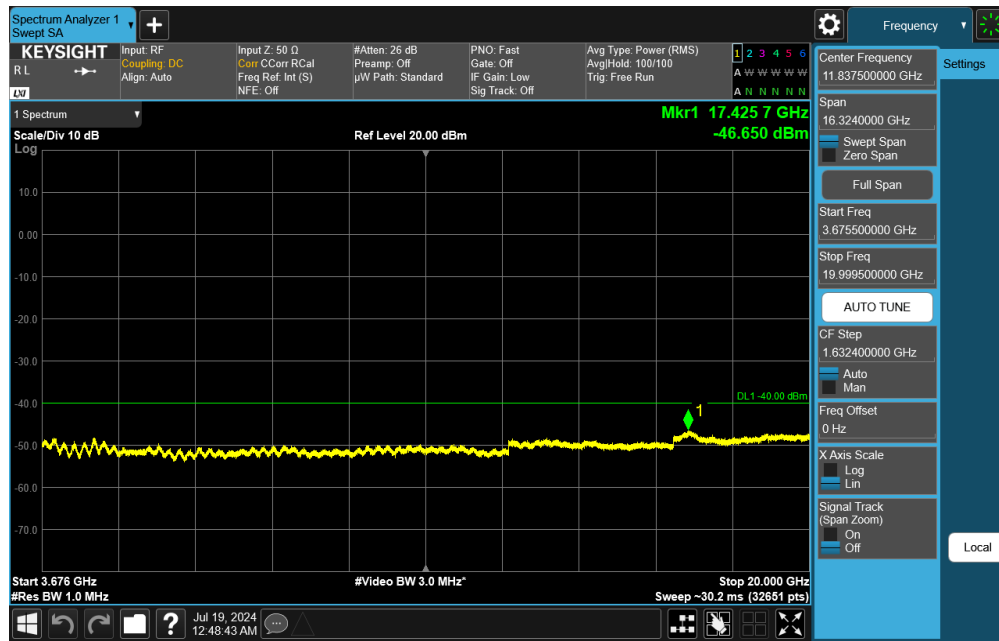


Plot 7-85. Conducted Spurious Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - Mid Channel)

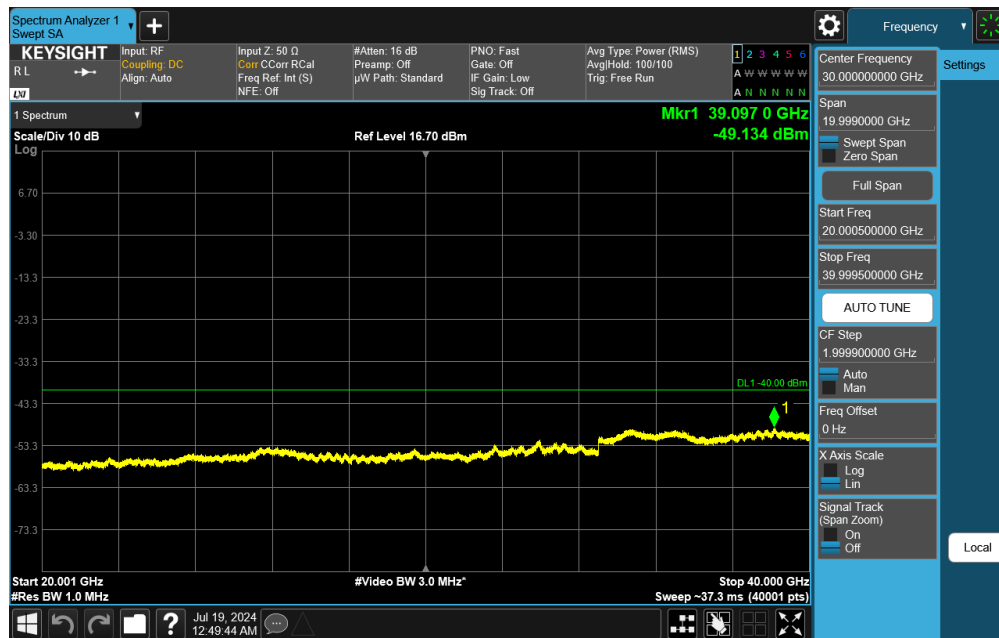
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device
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Plot 7-86. Conducted Spurious Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - Mid Channel)

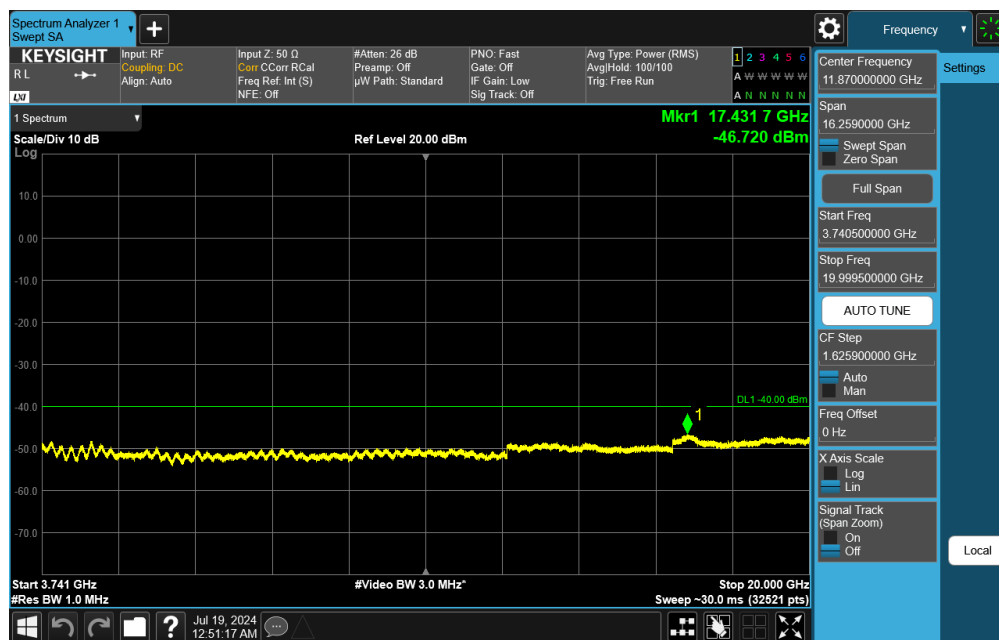
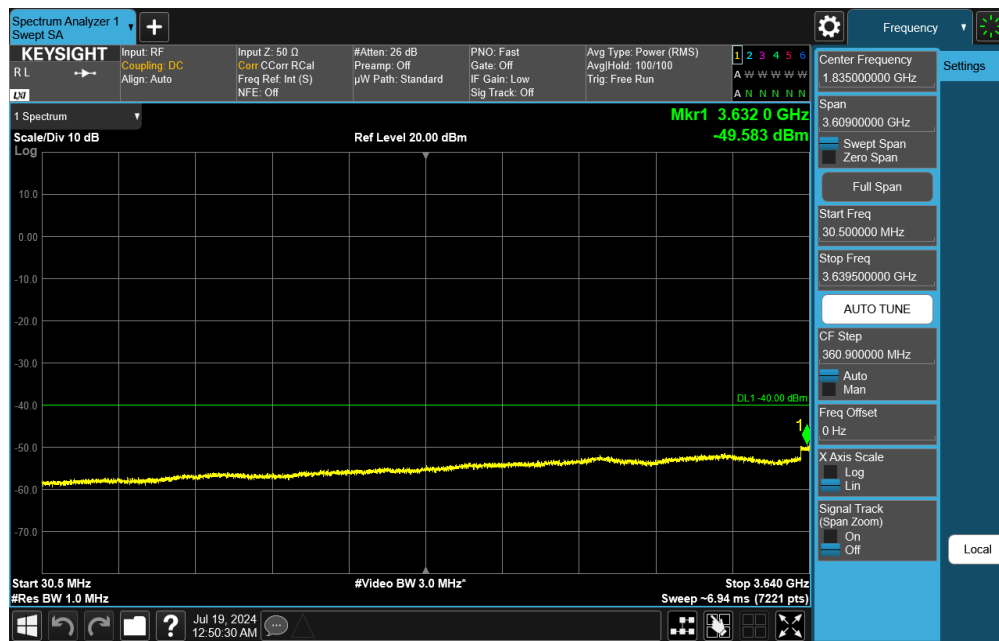


Plot 7-87. Conducted Spurious Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - Mid Channel)

FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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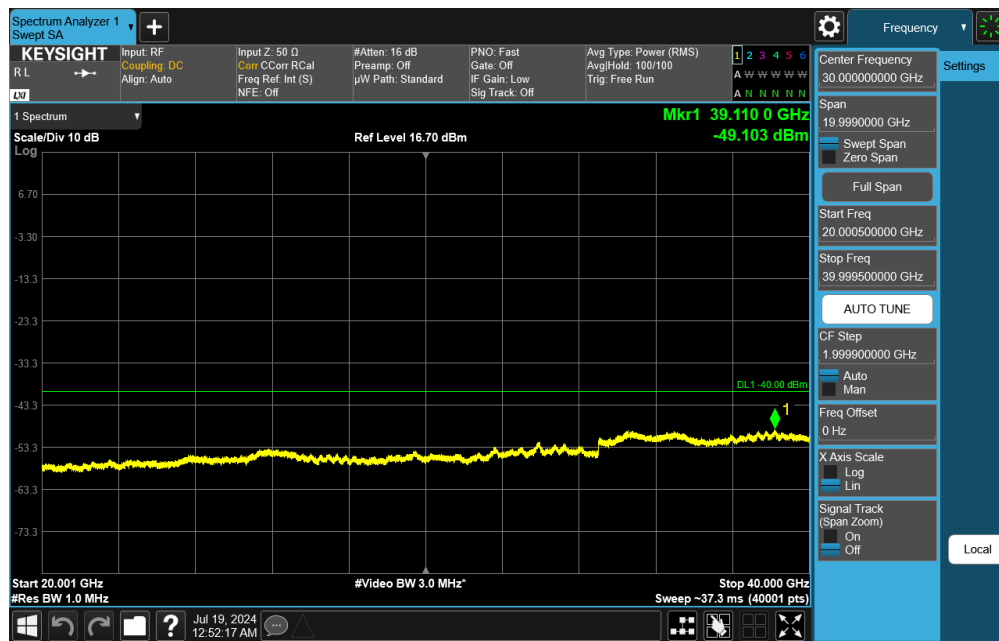
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Plot 7-90. Conducted Spurious Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - High Channel)

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7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §96.41(e)(ii)

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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation and all ports were investigated and the worst case configuration results are reported in this section.

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

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

FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Test Setup

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

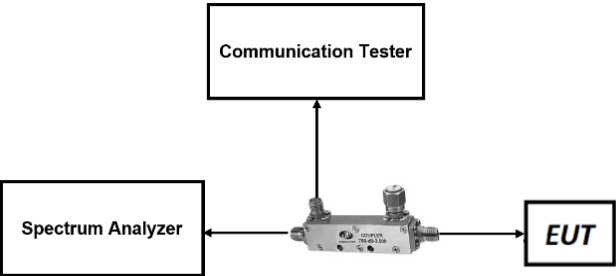


Figure 7-5. LTE Test Instrument & Measurement Setup

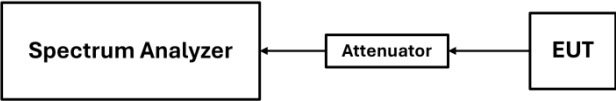


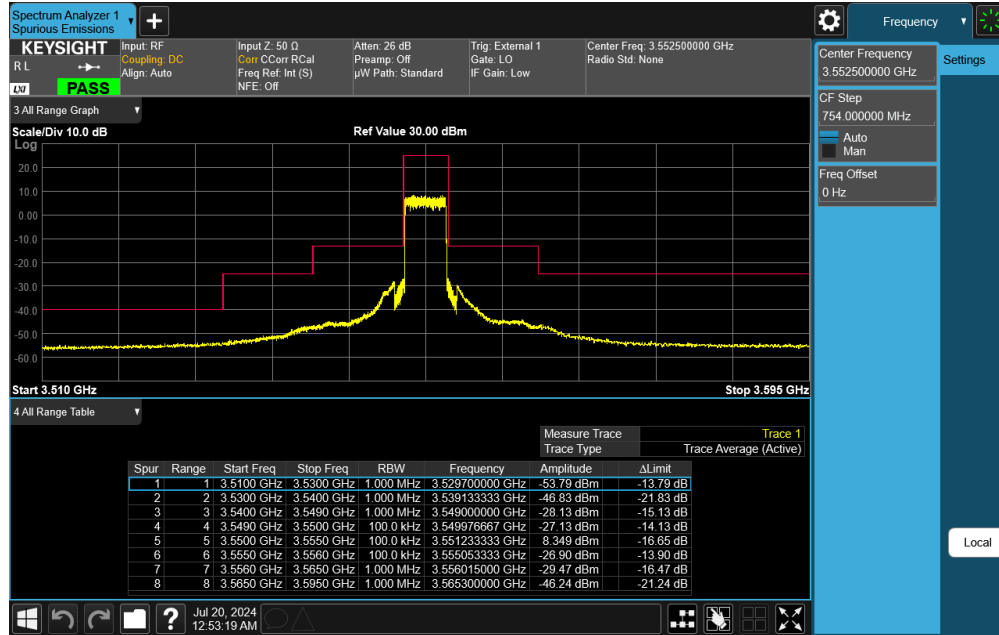
Figure 7-6. FR1 Test Instrument & Measurement Setup

Test Notes

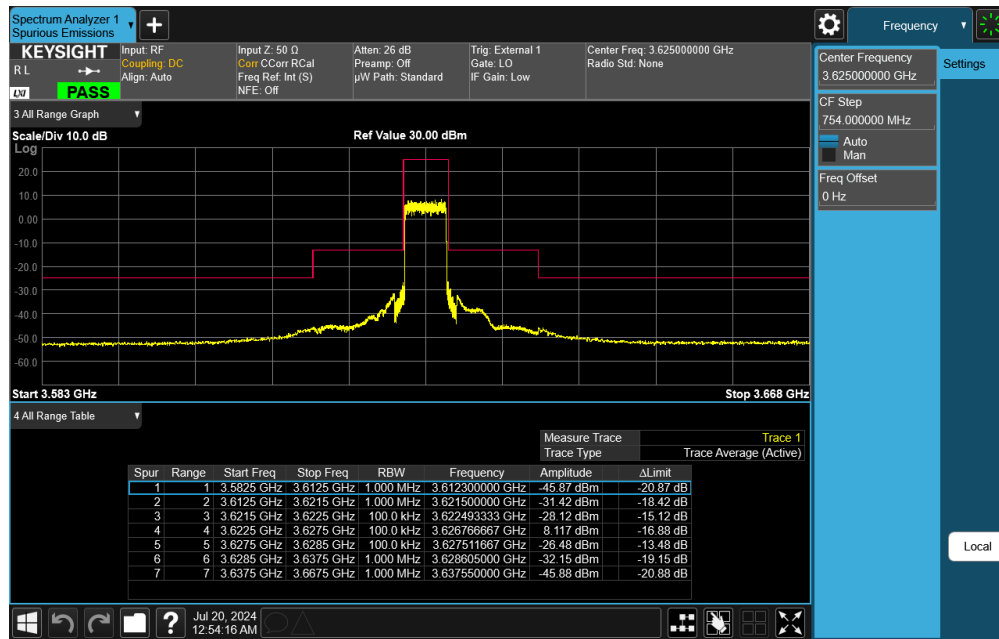
None

FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 48



Plot 7-91. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Low Channel)

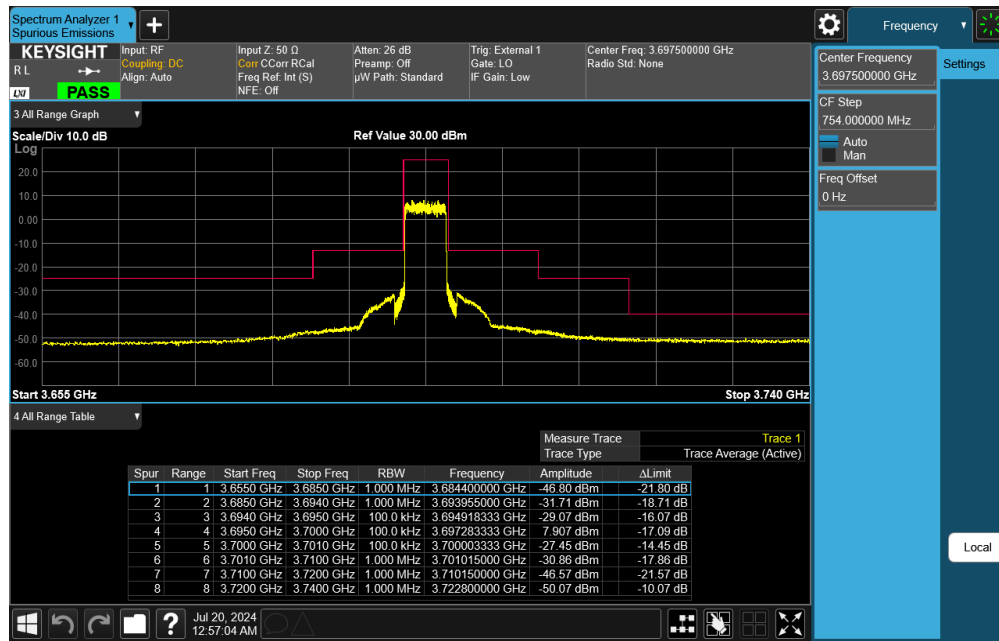


Plot 7-92. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Mid Channel)

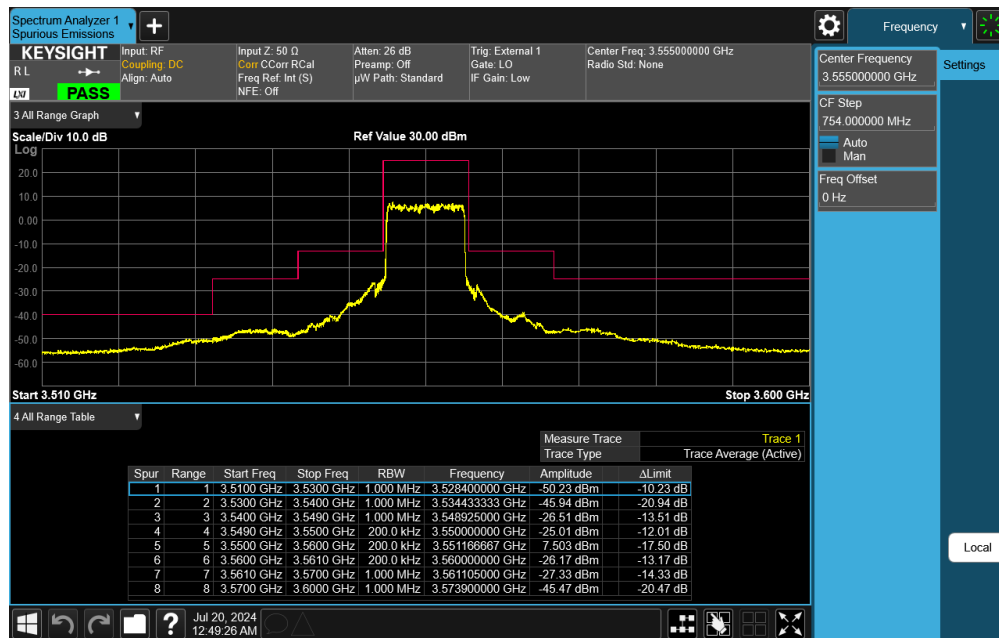
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-93. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - High Channel)

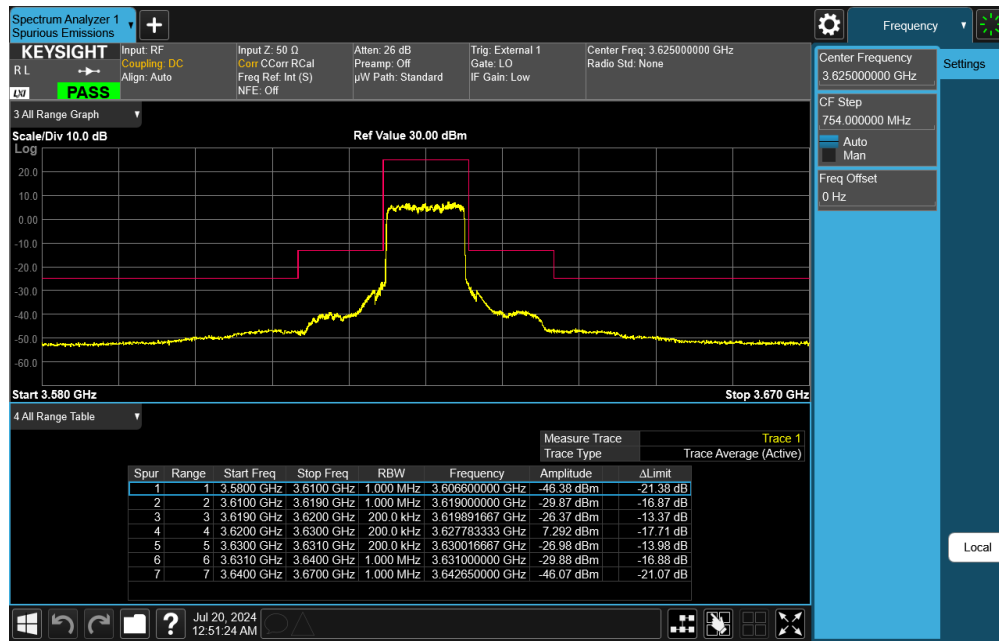


Plot 7-94. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - Low Channel)

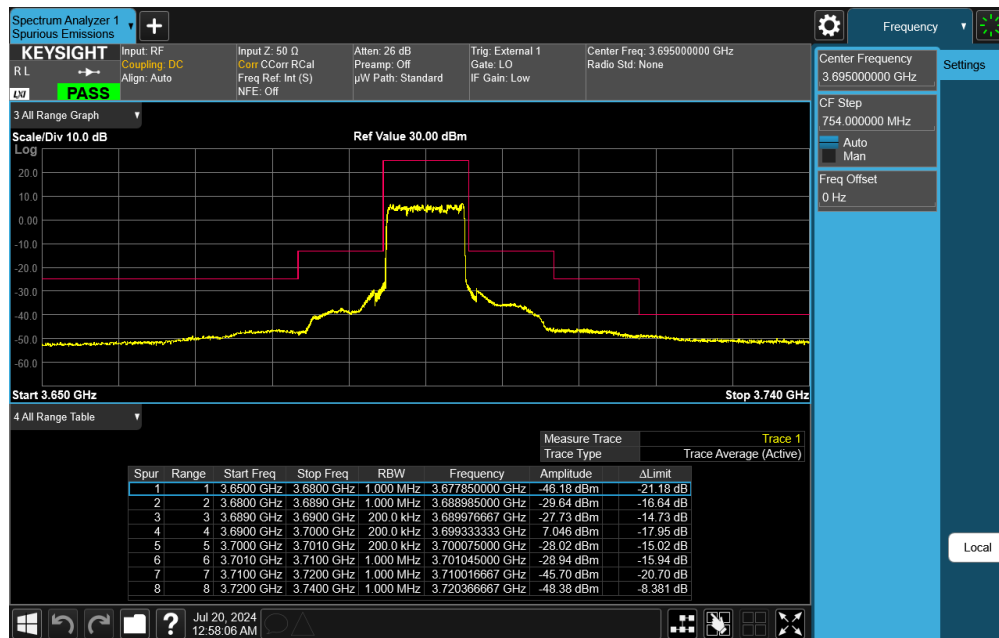
FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-95. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - Mid Channel)

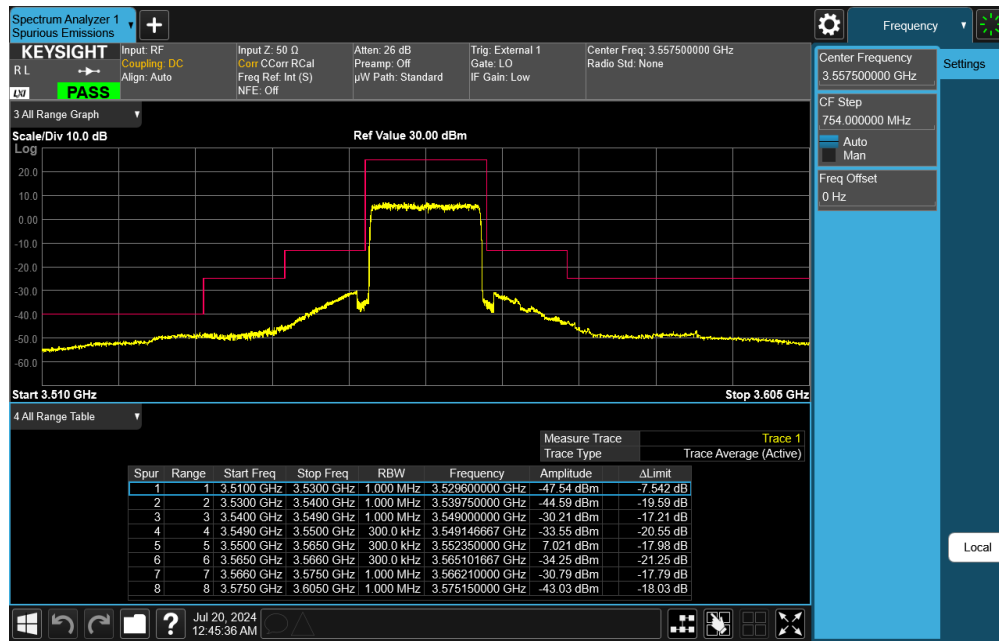


Plot 7-96. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - High Channel)

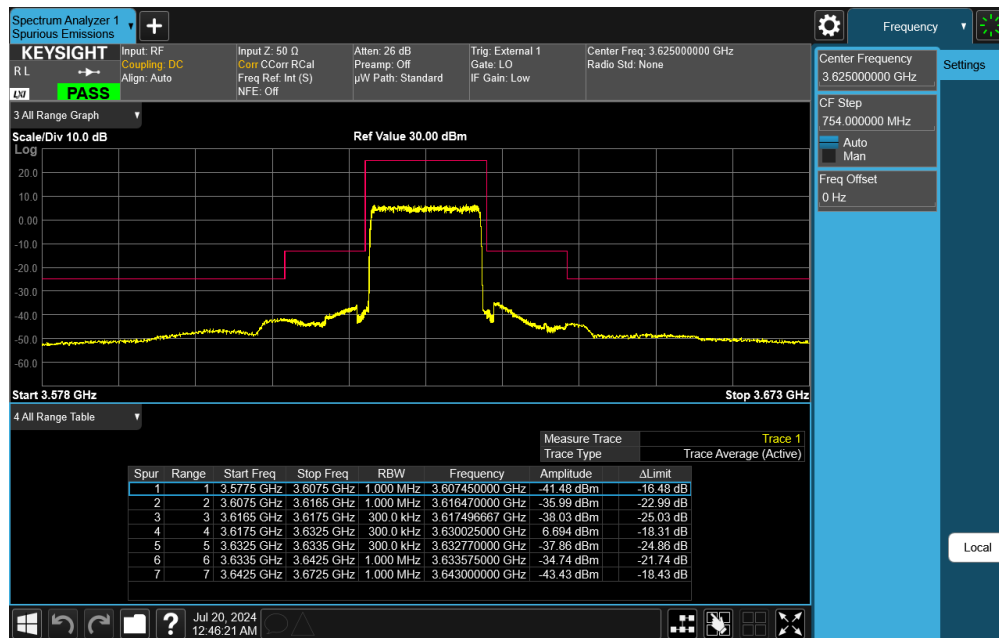
FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-97. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Low Channel)

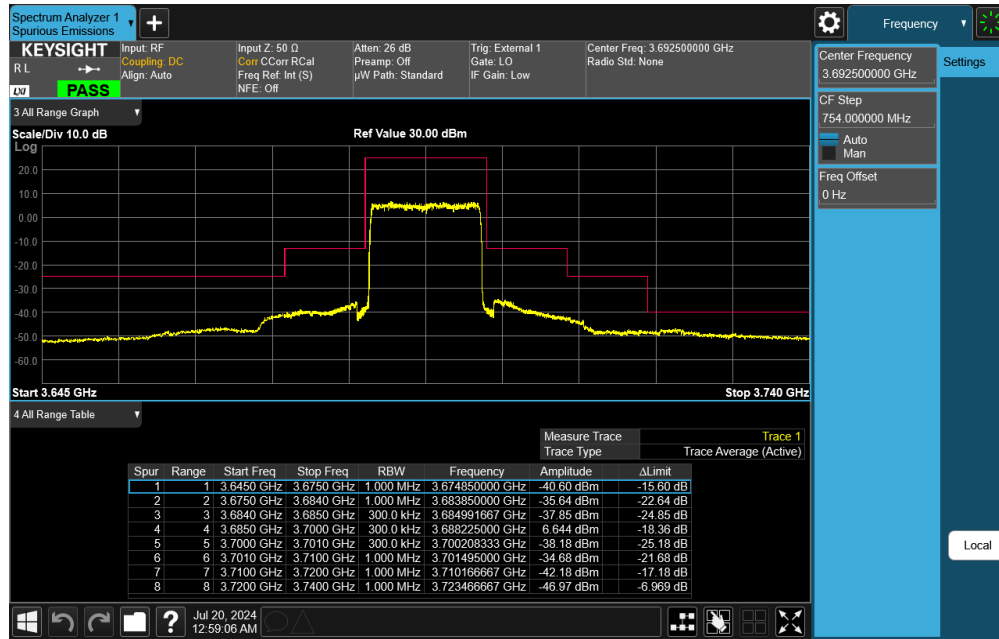


Plot 7-98. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Mid Channel)

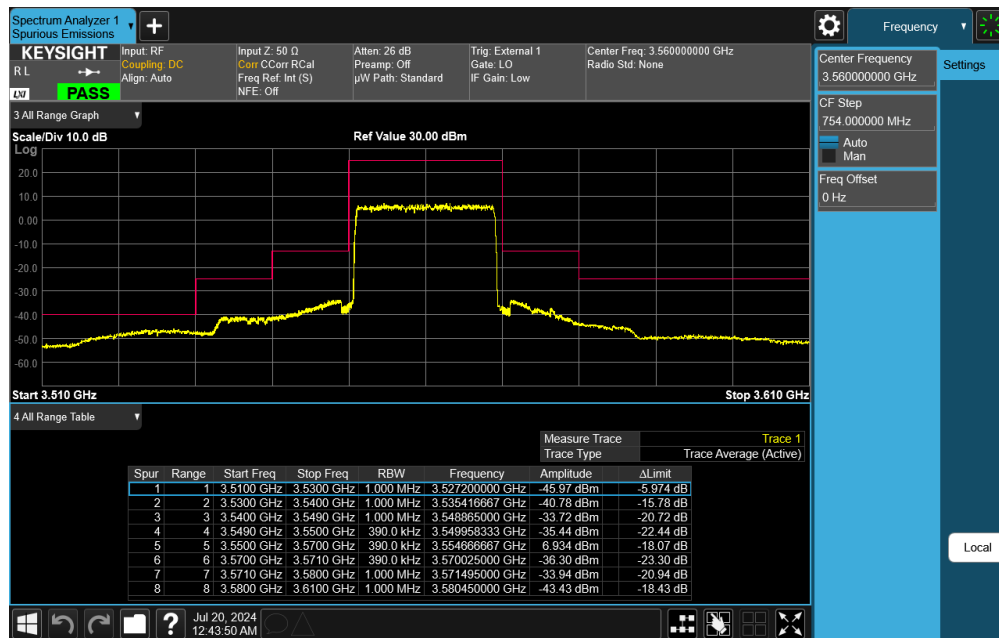
FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-99. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - High Channel)

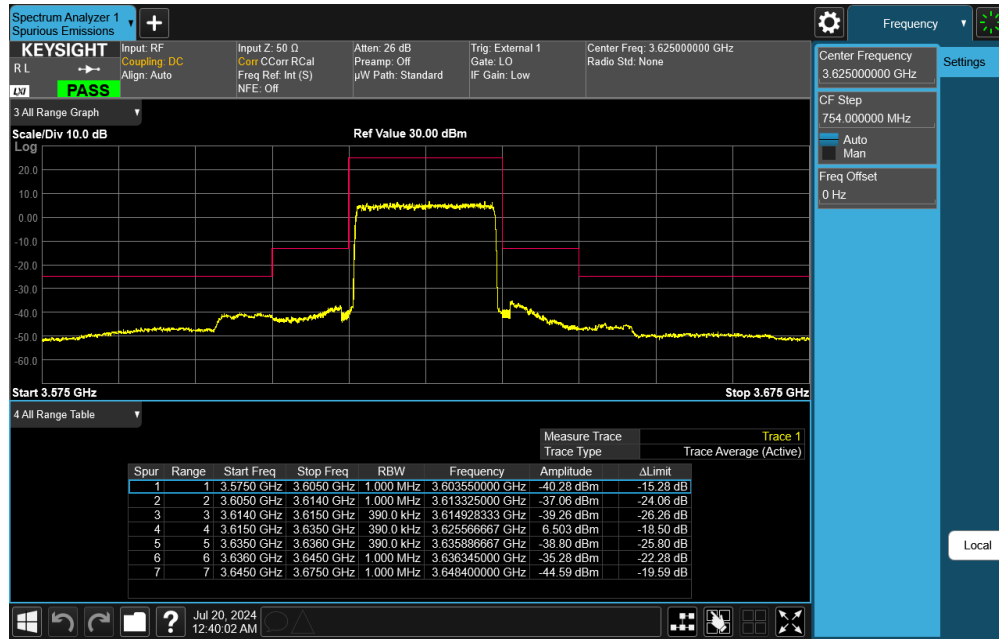


Plot 7-100. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

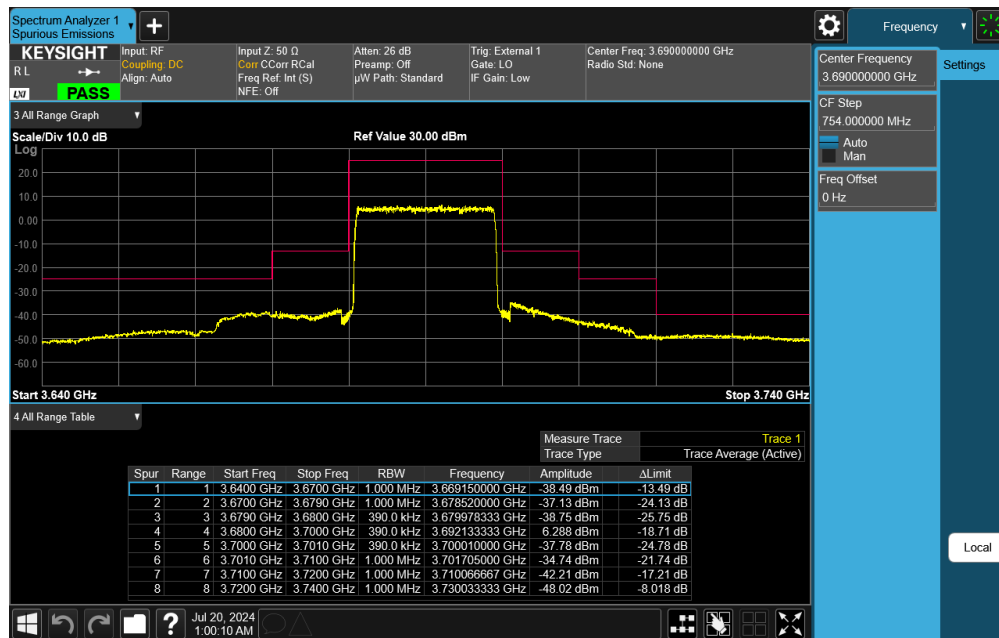
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-101. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)



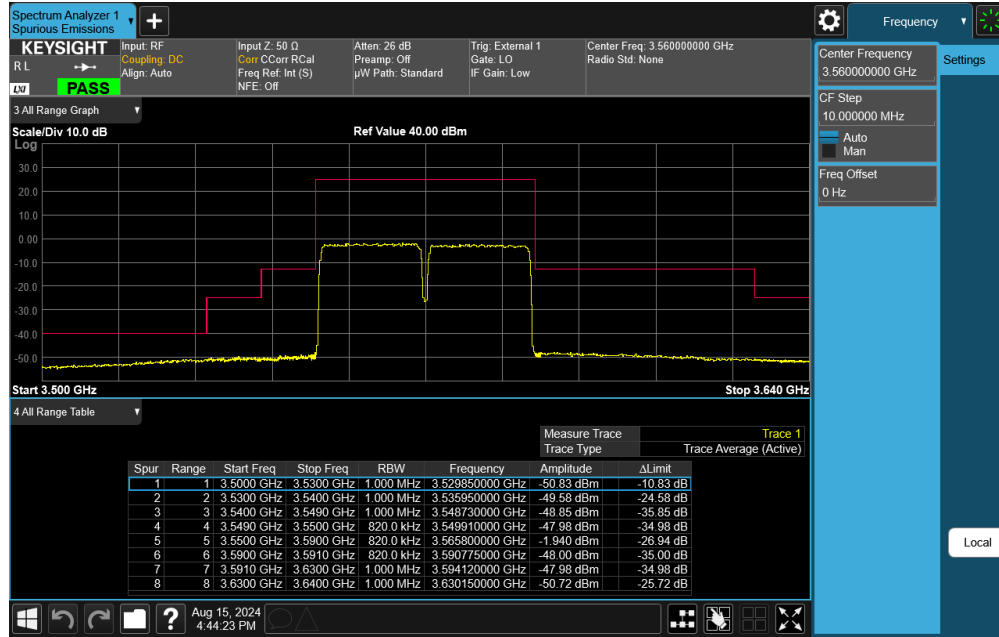
Plot 7-102. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel)

FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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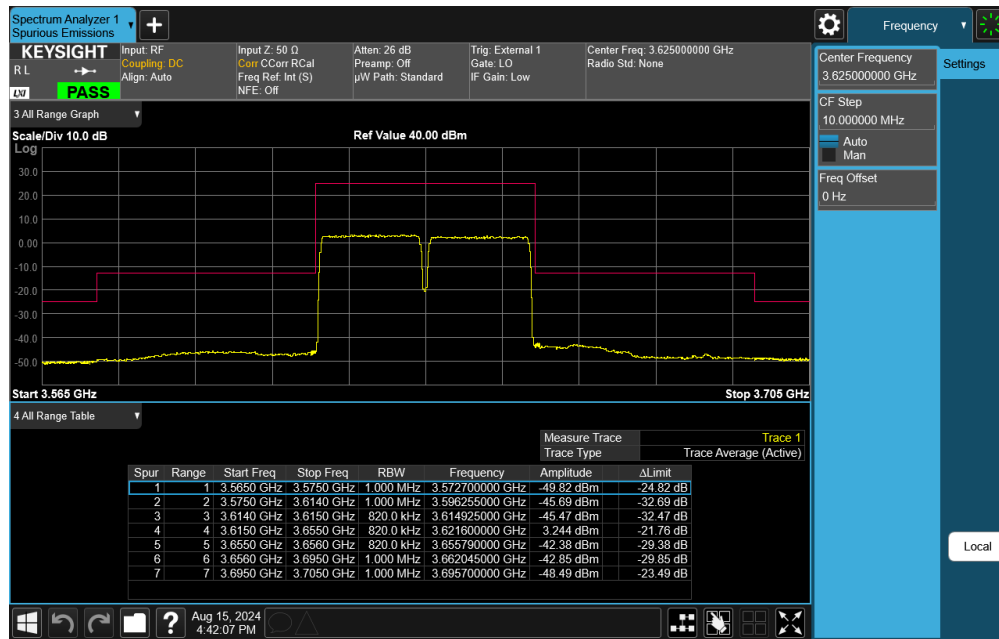
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ULCA LTE Band 48



Plot 7-103. Channel Edge Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Low Channel)

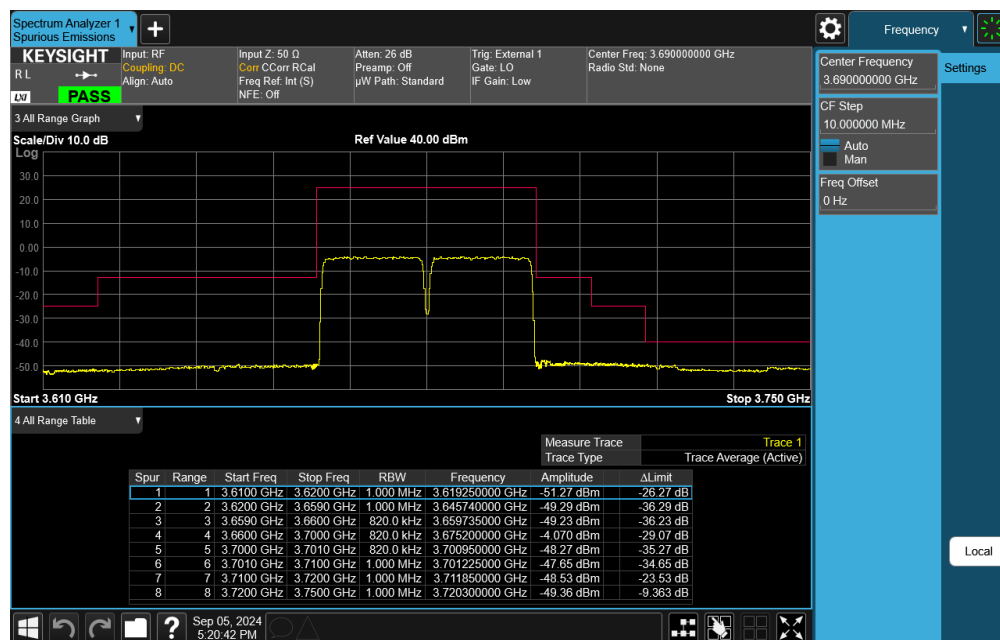


Plot 7-104. Channel Edge Plot (ULCA LTE Band 48 - 20+20MHz QPSK - Mid Channel)

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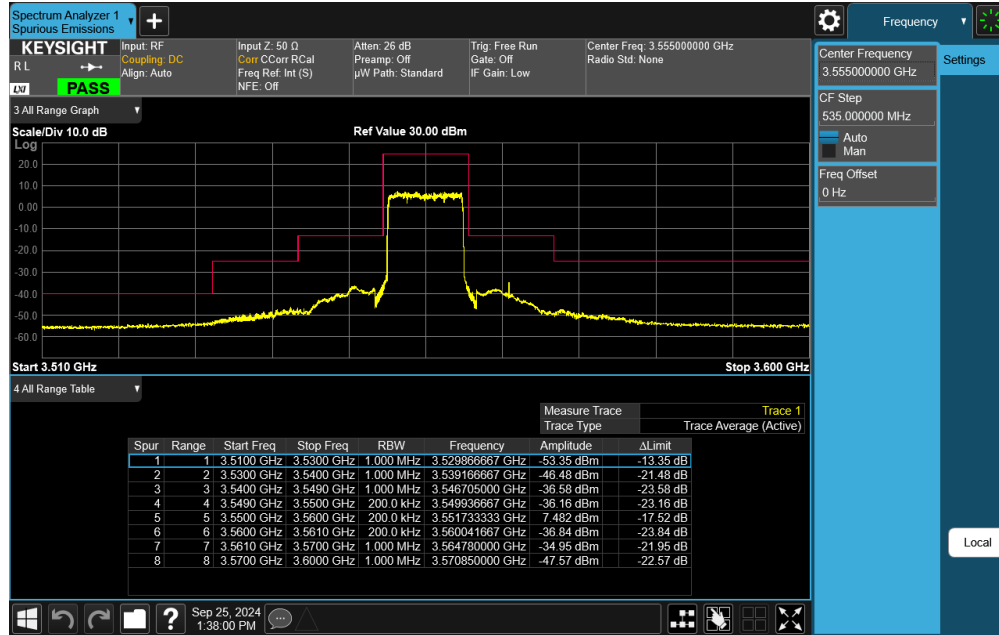


FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device
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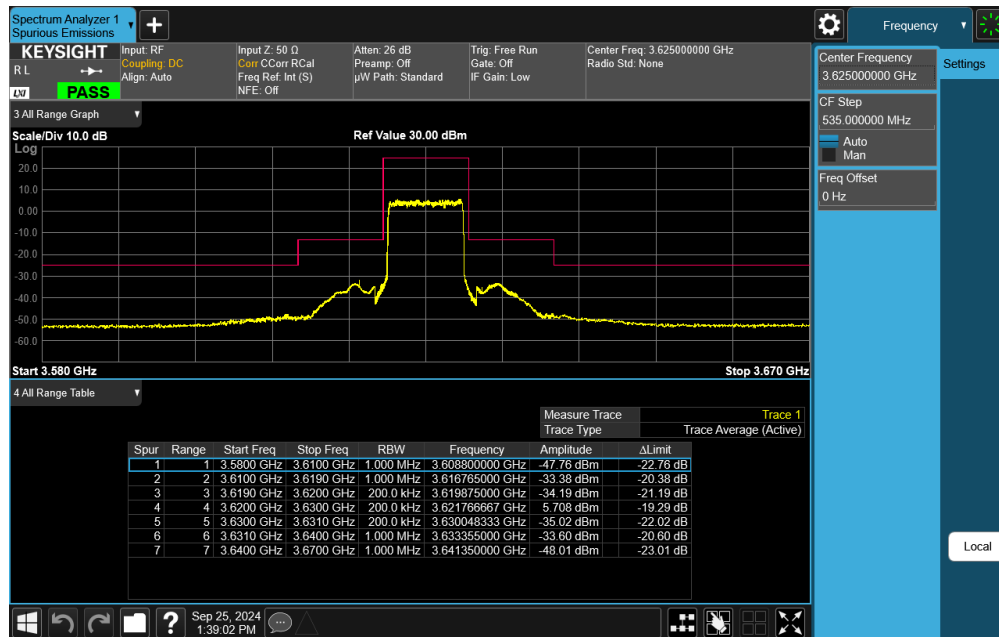
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NR Band n48



Plot 7-106. Channel Edge Plot (NR Band n48 - 10MHz DFT-s-OFDM QPSK - Low Channel)

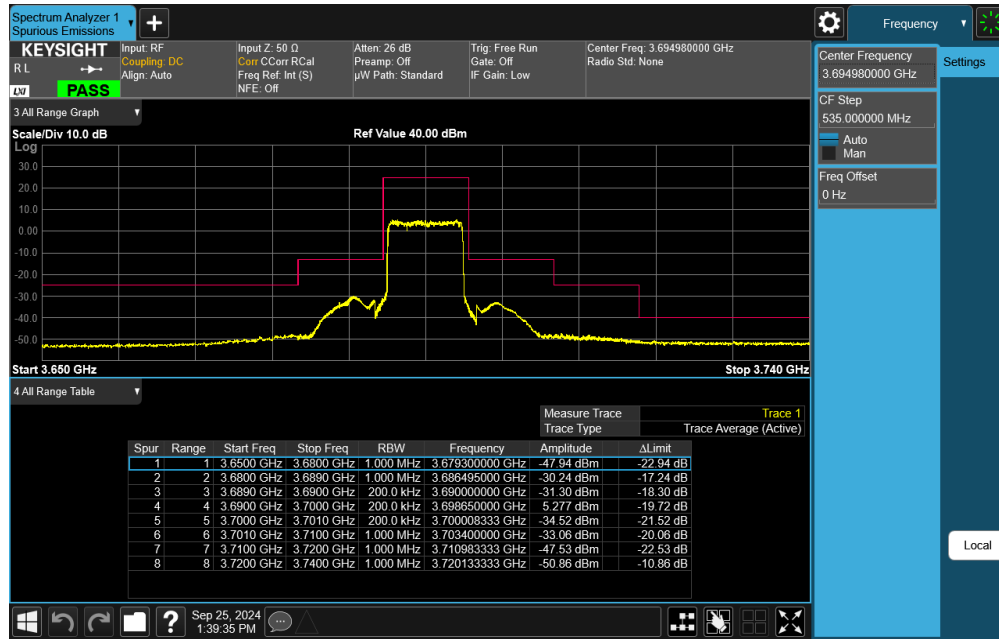


Plot 7-107. Channel Edge Plot (NR Band n48 - 10MHz DFT-s-OFDM QPSK - Mid Channel)

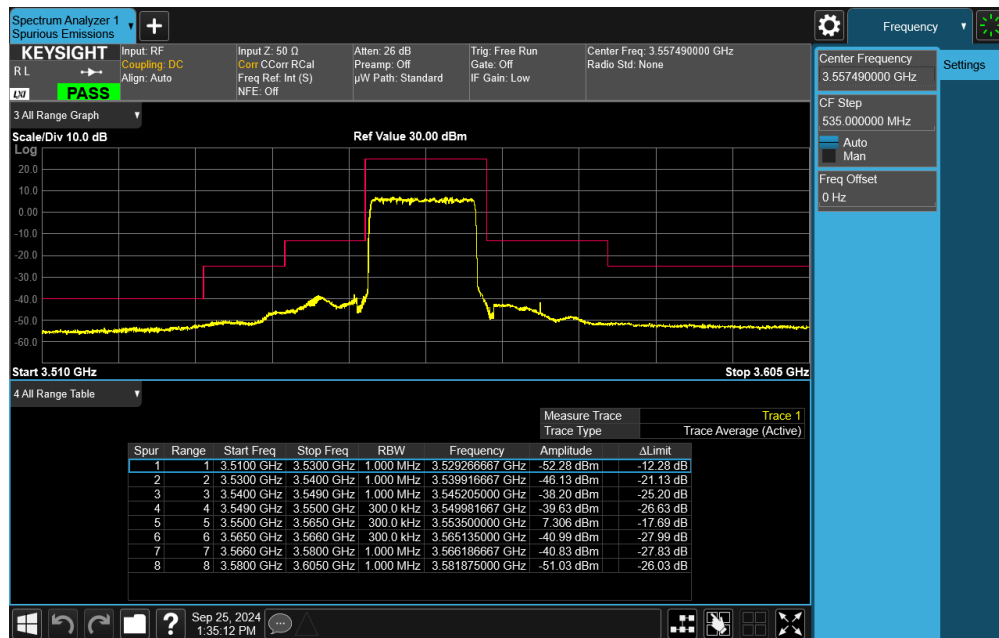
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-108. Channel Edge Plot (NR Band n48 - 10MHz DFT-s-OFDM QPSK - High Channel)

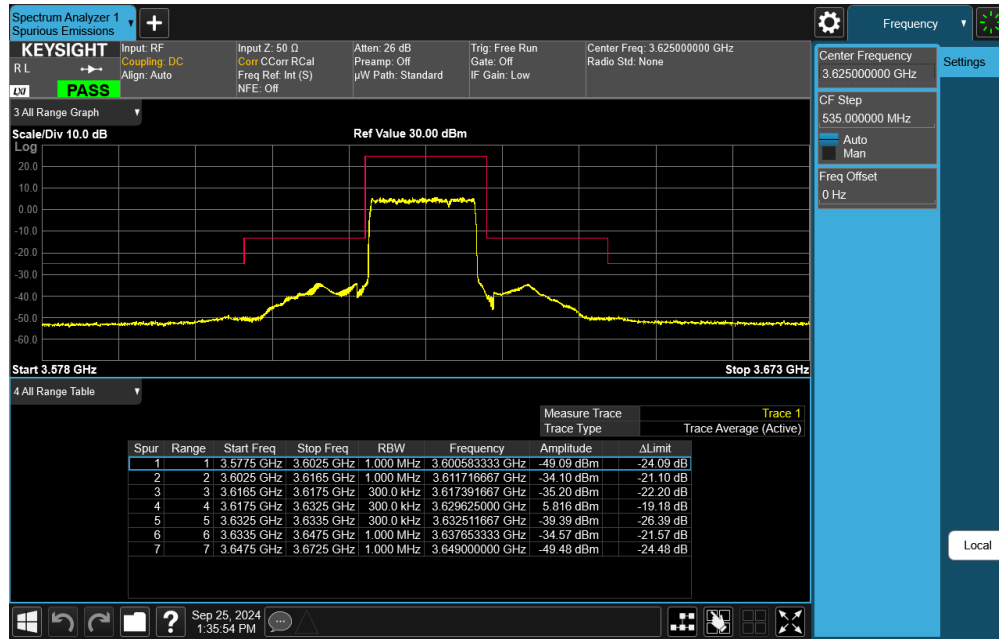


Plot 7-109. Channel Edge Plot (NR Band n48 - 15MHz DFT-s-OFDM QPSK - Low Channel)

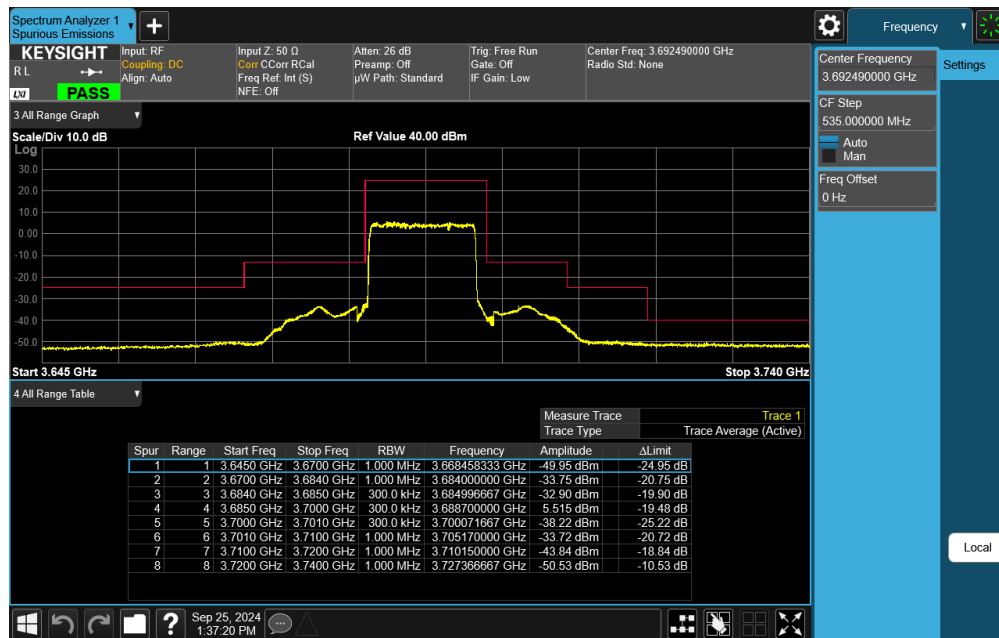
FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device	Page 74 of 140

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Plot 7-110. Channel Edge Plot (NR Band n48 - 15MHz DFT-s-OFDM QPSK - Mid Channel)

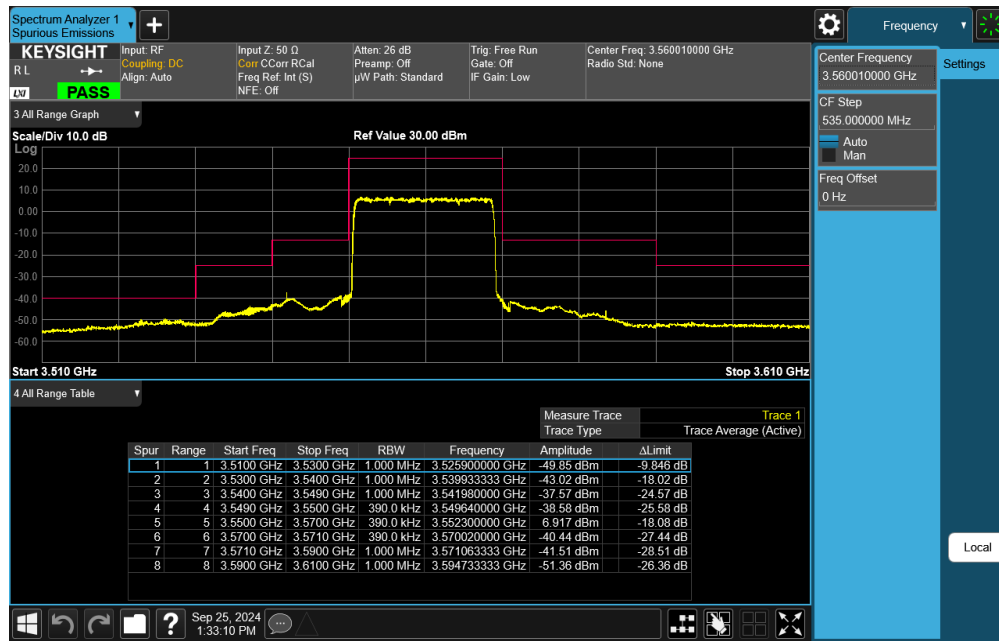


Plot 7-111. Channel Edge Plot (NR Band n48 - 15MHz DFT-s-OFDM QPSK - High Channel)

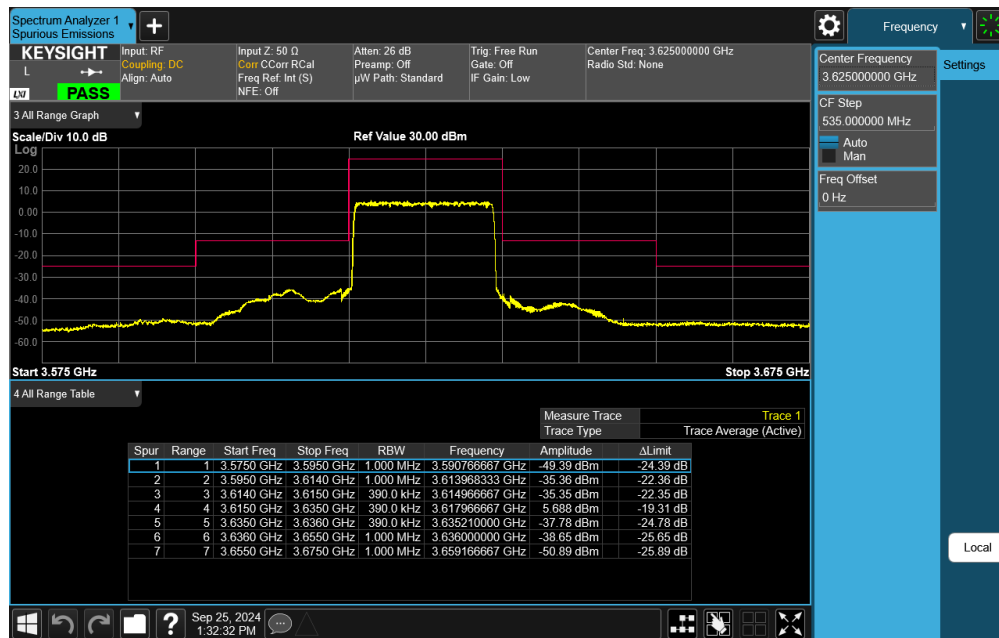
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2410210075-13-R1.BCG	Test Dates: 7/1/2024-12/27/2024	EUT Type: Tablet Device	Page 75 of 140

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Plot 7-112. Channel Edge Plot (NR Band n48 - 20MHz DFT-s-OFDM QPSK - Low Channel)

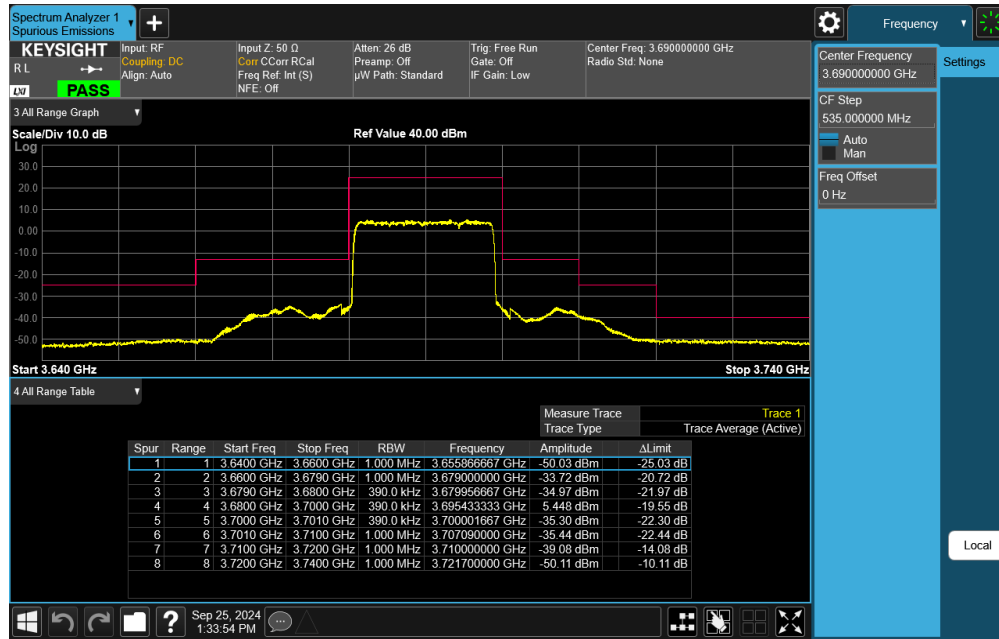


Plot 7-113. Channel Edge Plot (NR Band n48 - 20MHz DFT-s-OFDM QPSK - Mid Channel)

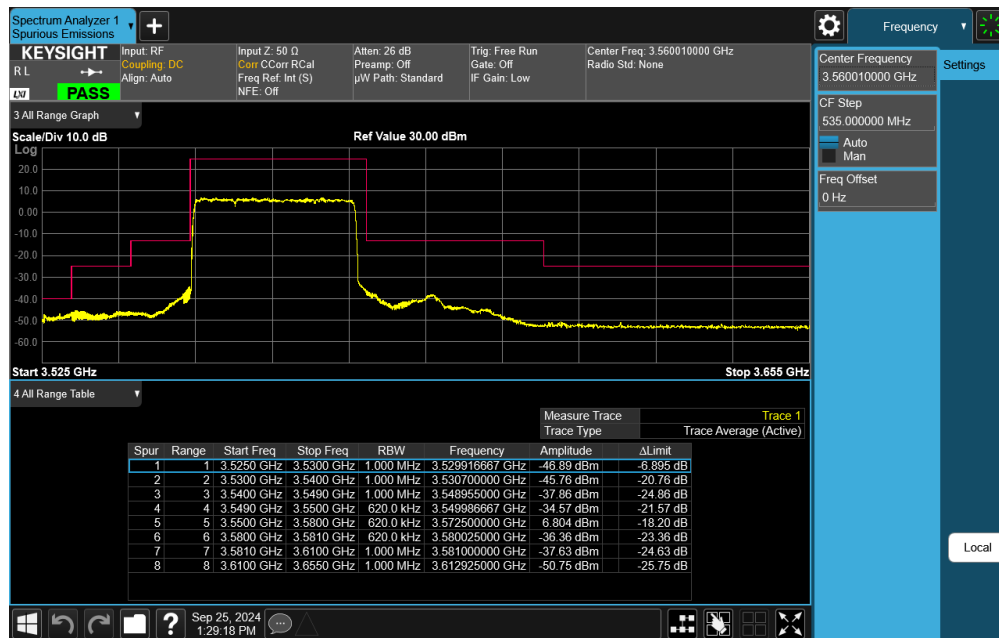
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-114. Channel Edge Plot (NR Band n48 - 20MHz DFT-s-OFDM QPSK - High Channel)

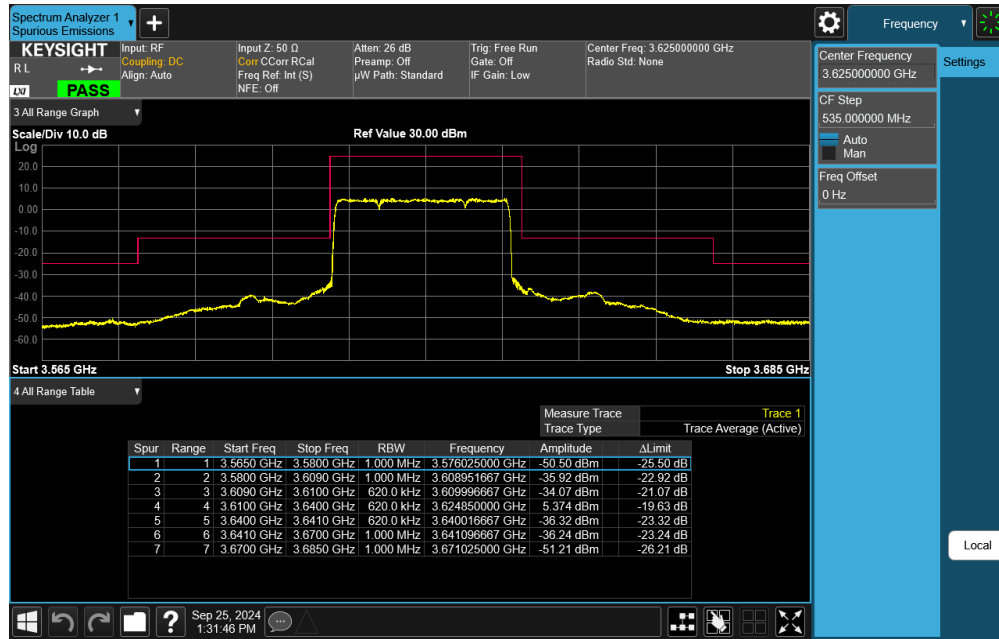


Plot 7-115. Channel Edge Plot (NR Band n48 - 30MHz DFT-s-OFDM QPSK - Low Channel)

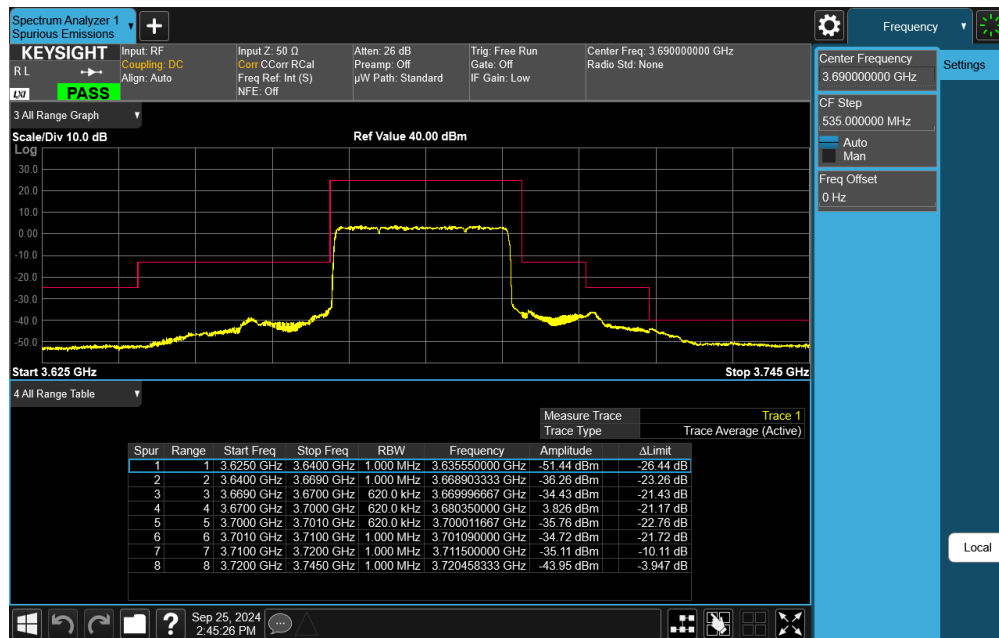
FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-116. Channel Edge Plot (NR Band n48 - 30MHz DFT-s-OFDM QPSK - Mid Channel)

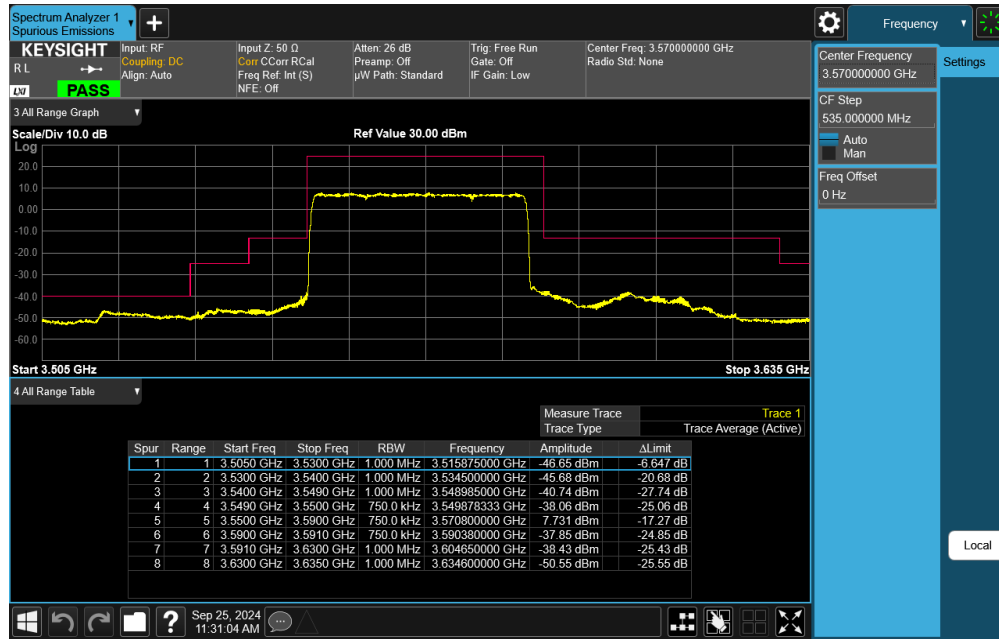


Plot 7-117. Channel Edge Plot (NR Band n48 - 30MHz DFT-s-OFDM QPSK - High Channel)

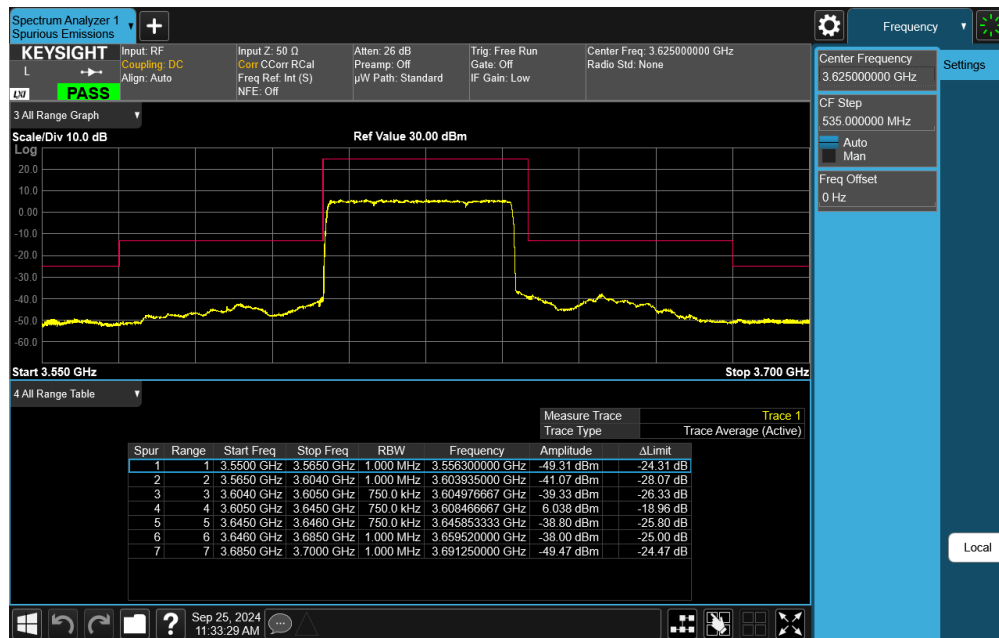
FCC ID: BCGA3269	element	PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-118. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - Low Channel)

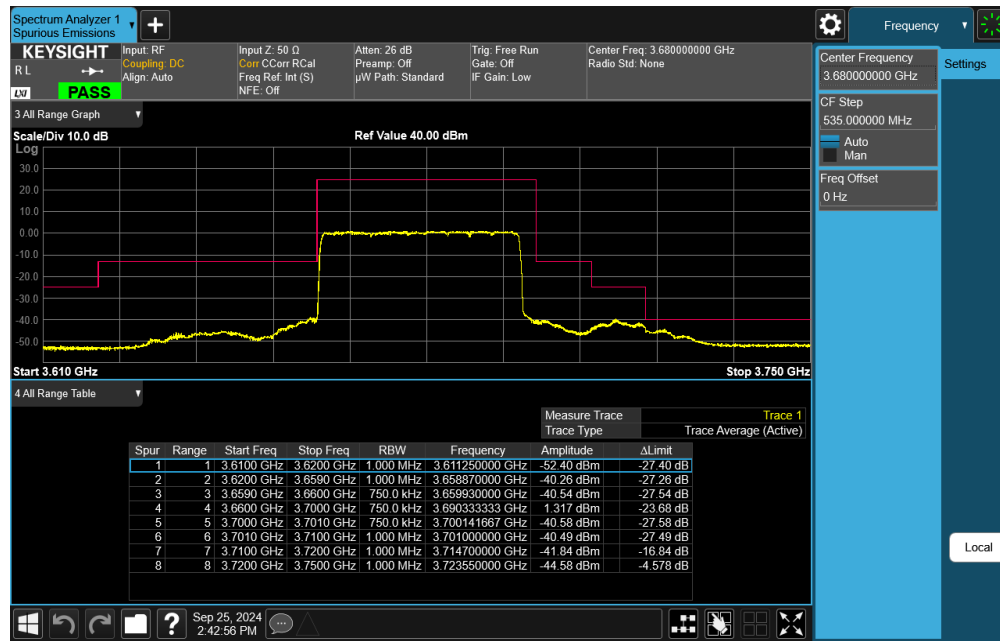


Plot 7-119. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - Mid Channel)

FCC ID: BCGA3269		PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-120. Channel Edge Plot (NR Band n48 - 40MHz DFT-s-OFDM QPSK - High Channel)

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7.5 Peak-Average Ratio

§96.41(g);

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. All ports were tested and only the worst case data were reported.

The peak-to-average power ratio (PAPR) of the equipment shall not exceed 13dB for more than 0.1% of the time.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW ≥ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

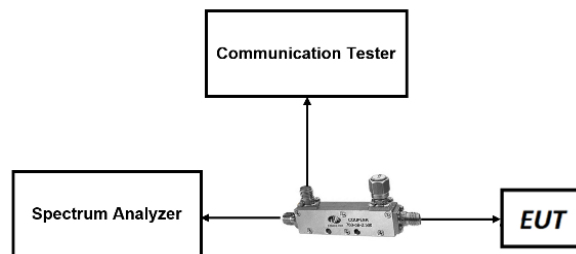


Figure 7-7. LTE Test Instrument & Measurement Setup

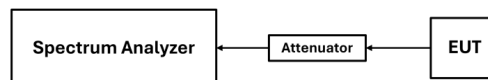


Figure 7-8. FR1 Test Instrument & Measurement Setup

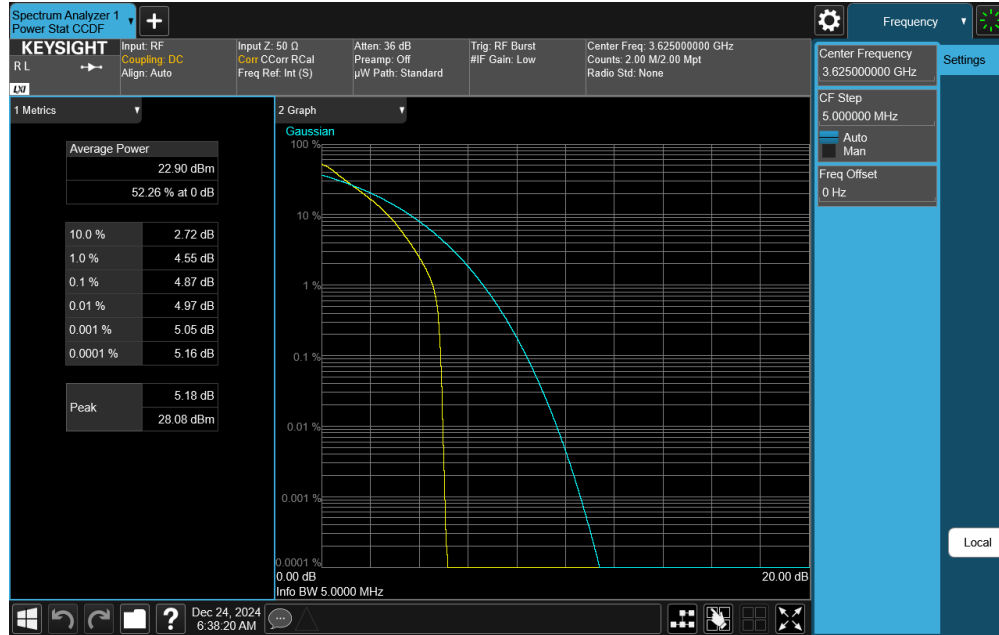
Test Notes

None.

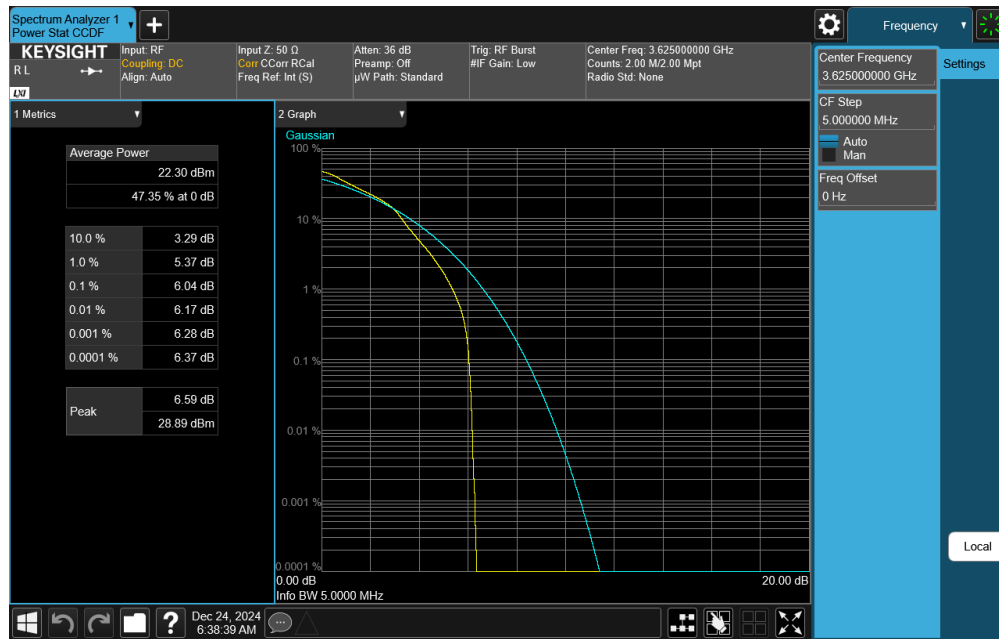
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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LTE Band 48



Plot 7-121. PAR Plot (LTE Band 48 - 5MHz QPSK - Full RB)

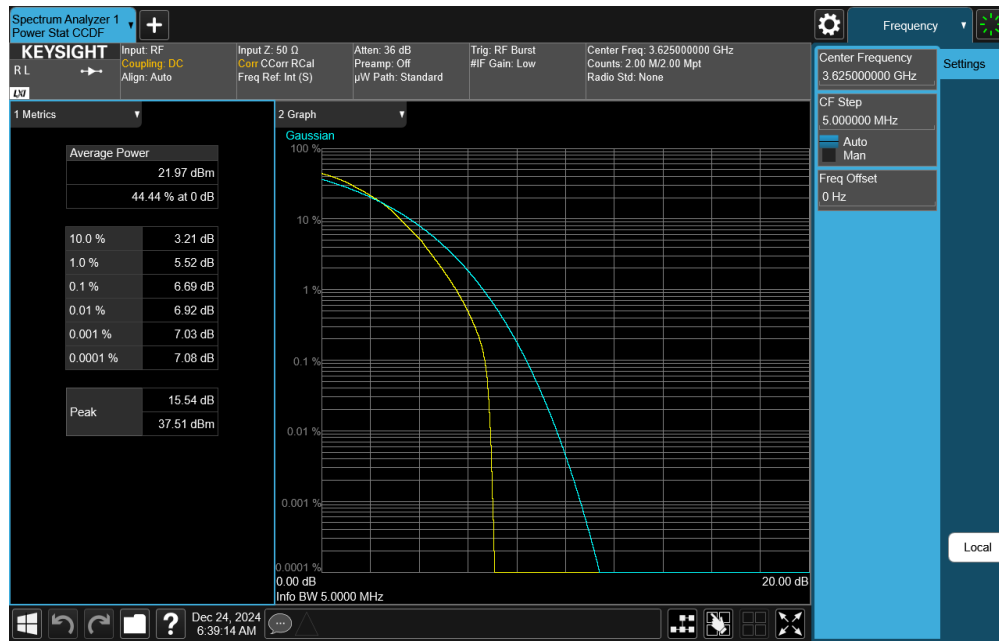


Plot 7-122. PAR Plot (LTE Band 48 - 5MHz 16-QAM - Full RB)

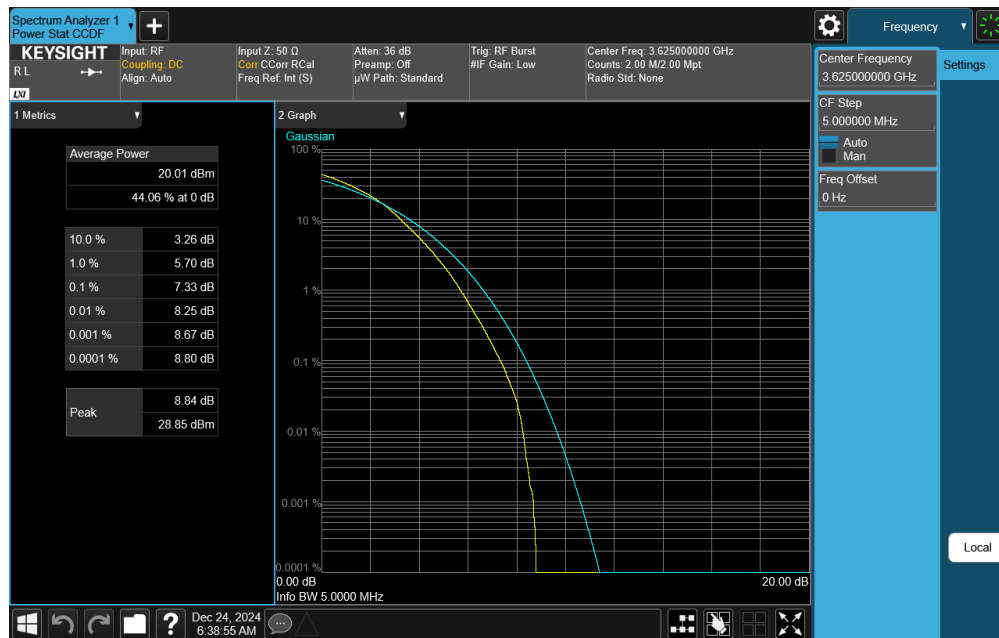
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-123. PAR Plot (LTE Band 48 - 5MHz 64-QAM – Full RB)

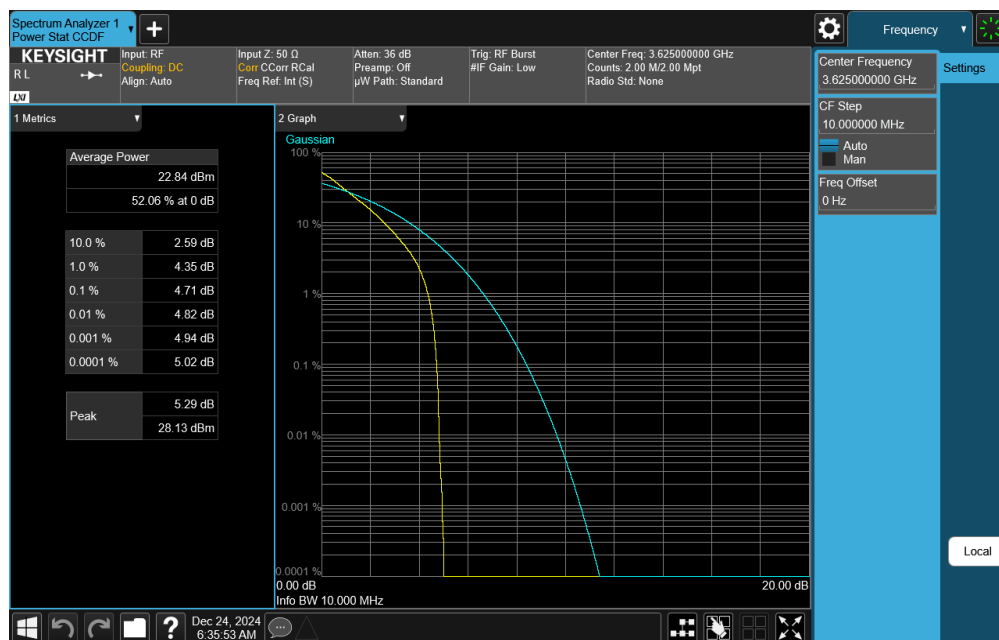


Plot 7-124. PAR Plot (LTE Band 48 - 5MHz 256-QAM – Full RB)

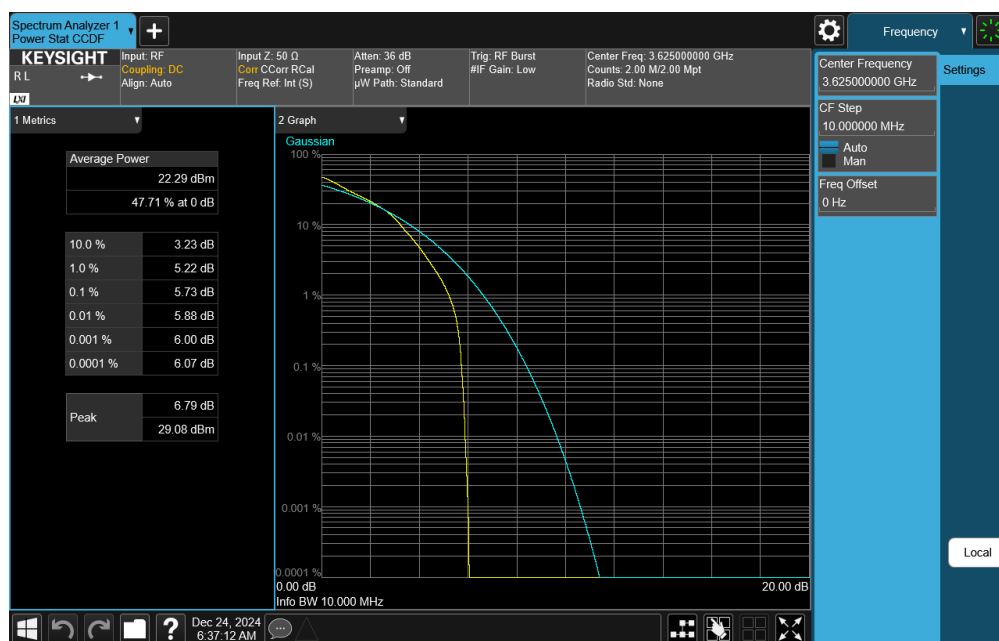
FCC ID: BCGA3269	 PART 96 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-125. PAR Plot (LTE Band 48 - 10MHz QPSK – Full RB)



Plot 7-126. PAR Plot (LTE Band 48 - 10MHz 16-QAM – Full RB)

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