
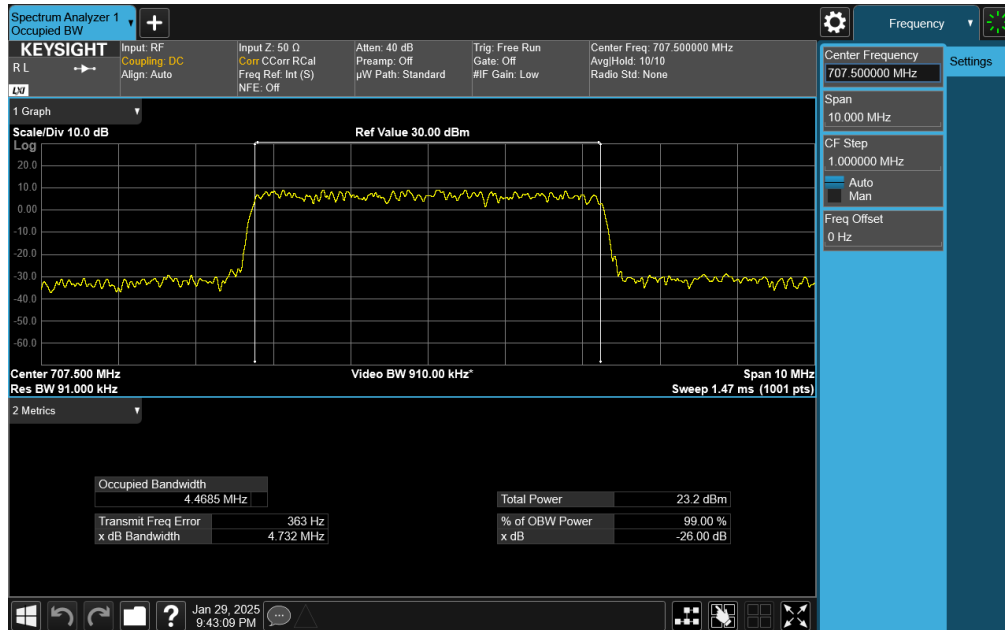
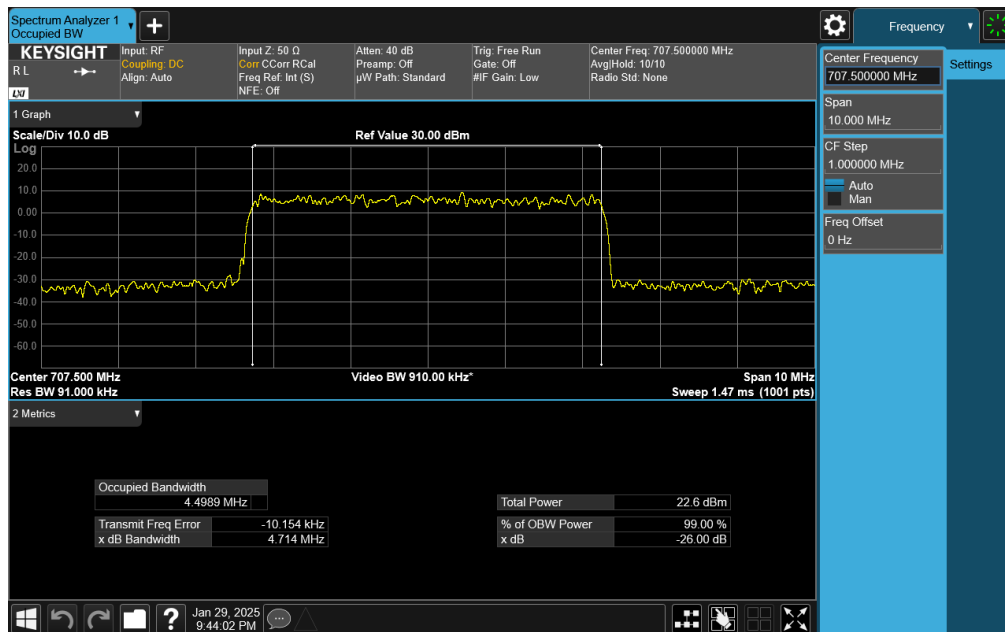


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Plot 7-67. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 16-QAM - Full RB)

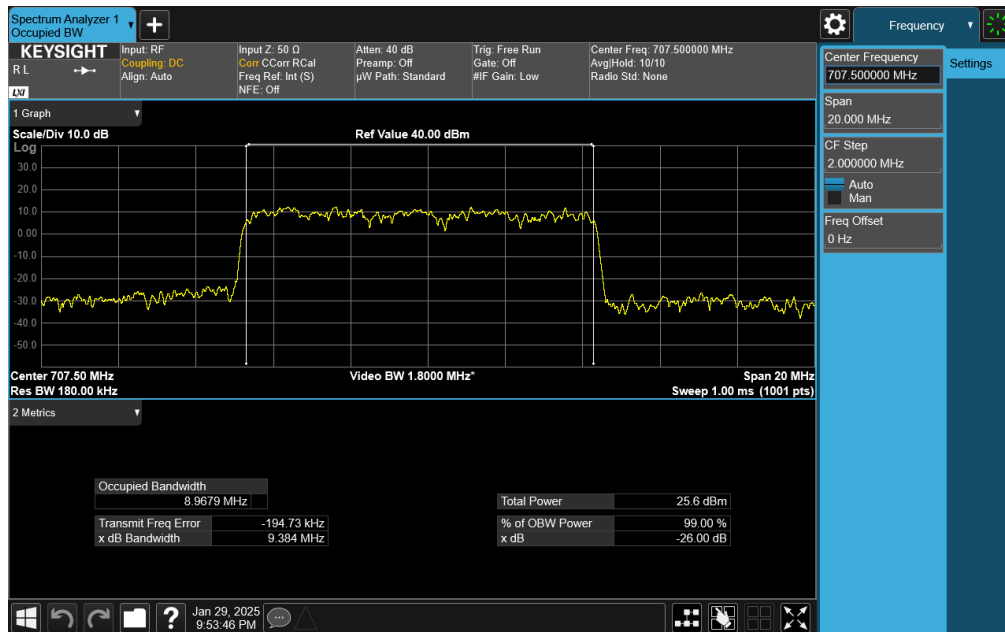


Plot 7-68. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 64-QAM - Full RB)

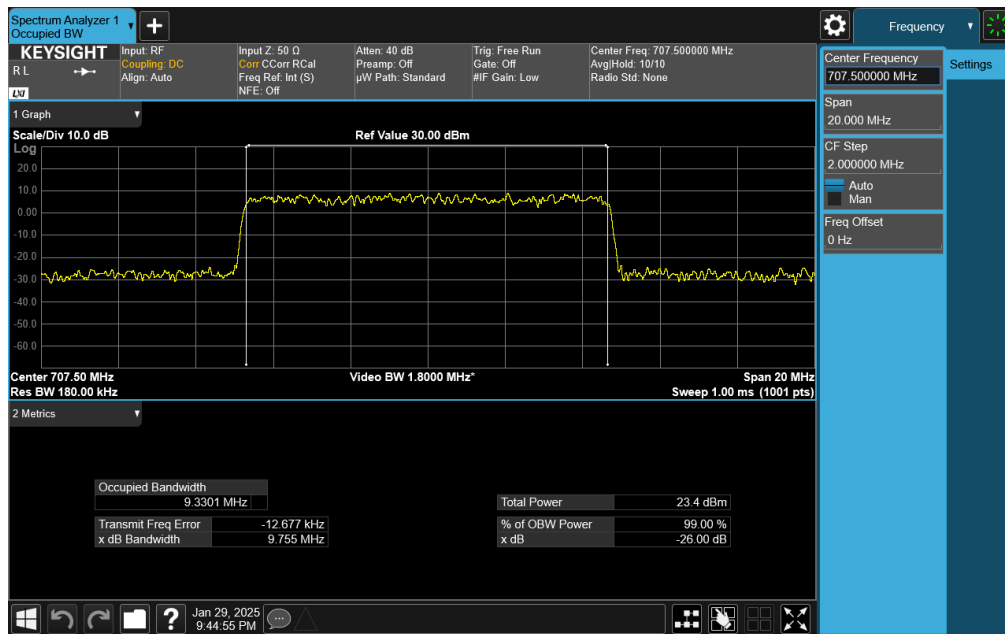
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-69. Occupied Bandwidth Plot (NR Band n12 - 10MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

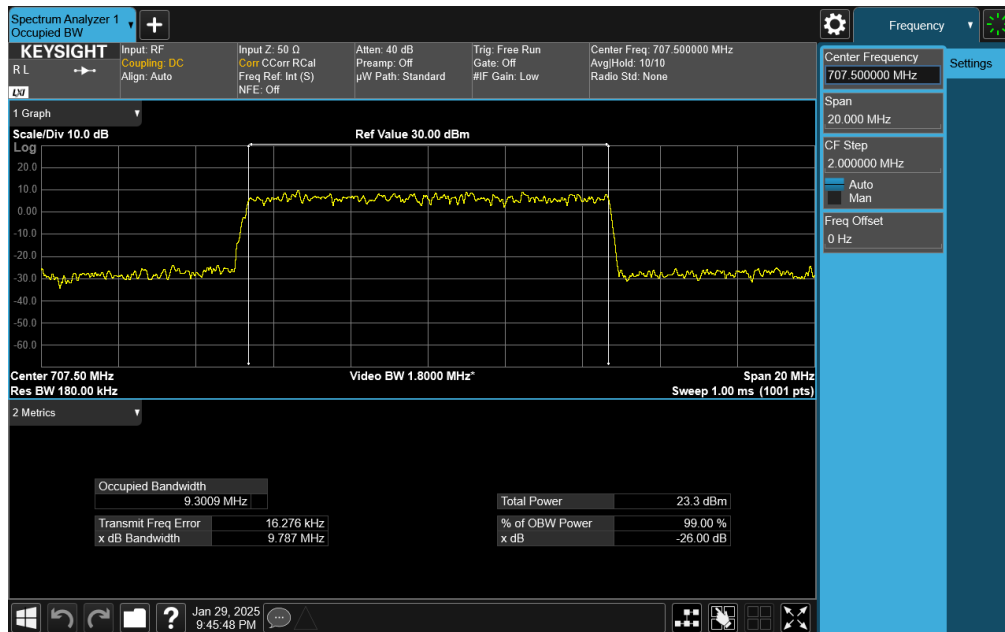


Plot 7-70. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM QPSK - Full RB)

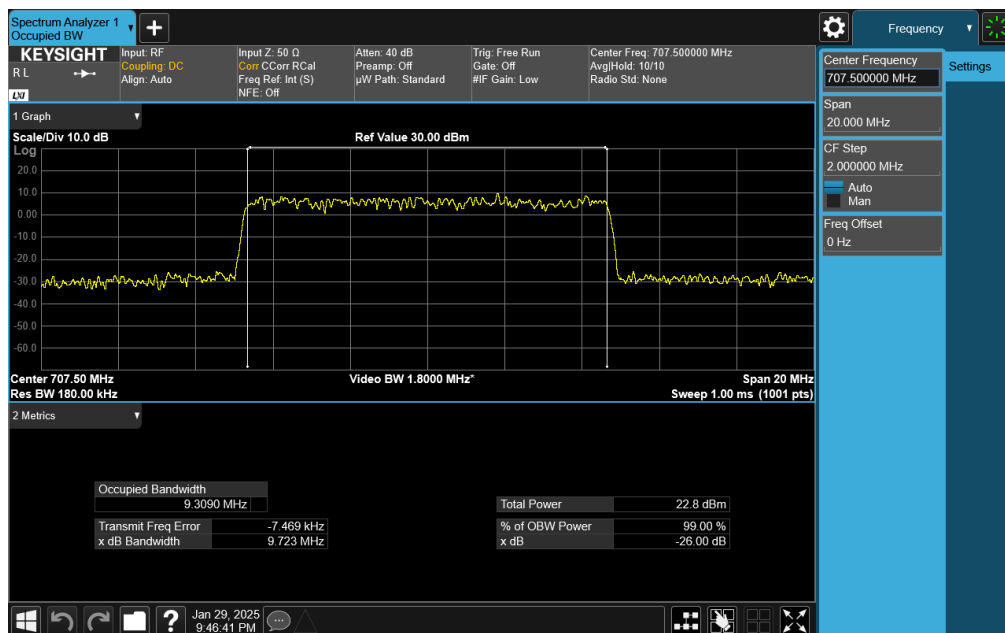
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-71. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 16-QAM - Full RB)



Plot 7-72. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 64-QAM - Full RB)

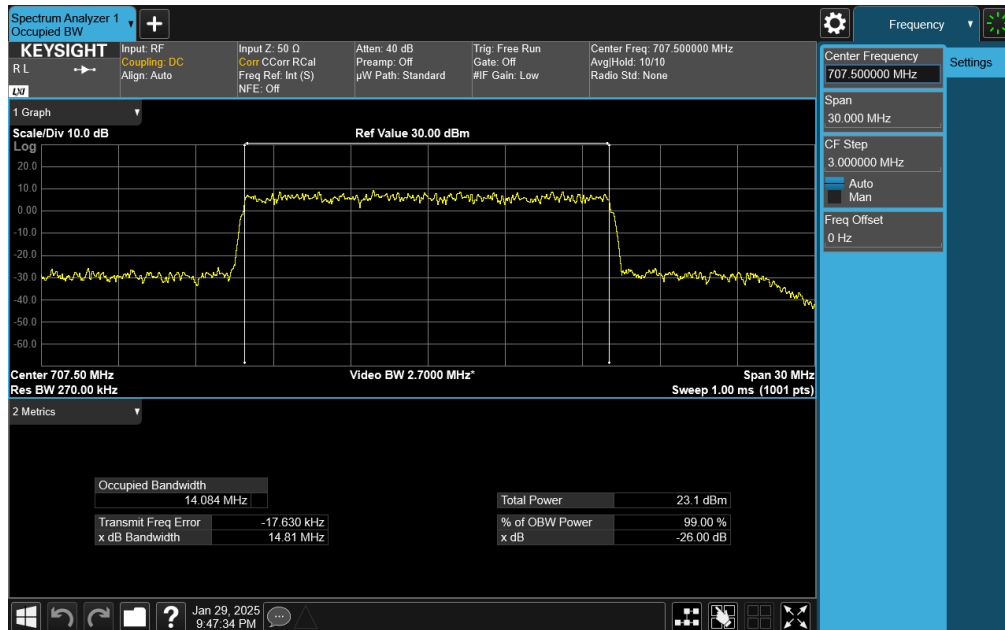
FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-73. Occupied Bandwidth Plot (NR Band n12 - 15MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

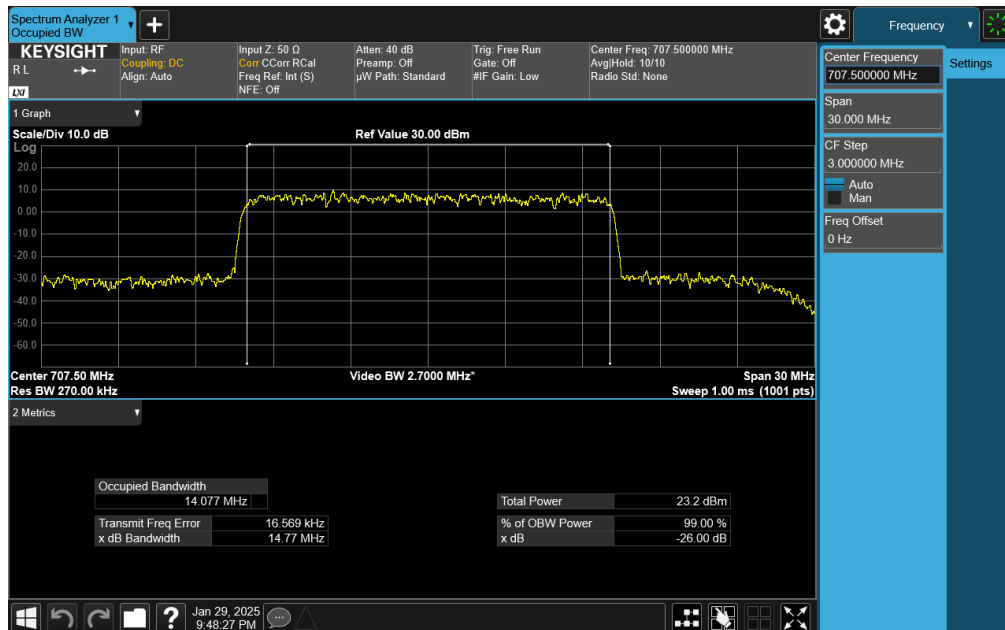


Plot 7-74. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM QPSK - Full RB)

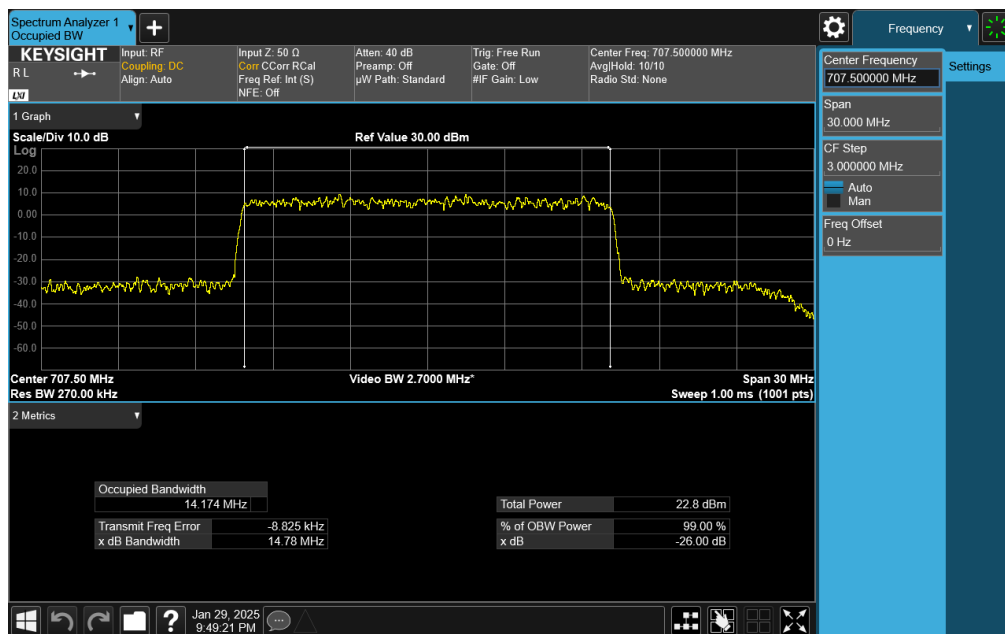
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-75. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 16-QAM - Full RB)



Plot 7-76. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 64-QAM - Full RB)

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## 7.3 Spurious and Harmonic Emissions at Antenna Terminal

**\$2.1051, \$27.53**

### 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  $43 + 10 \log_{10}(P_{\text{Watts}})$ , where  $P$  is the transmitter power in Watts.**

### Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
2. RBW  $\geq$  100kHz
3. VBW  $\geq$  3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

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

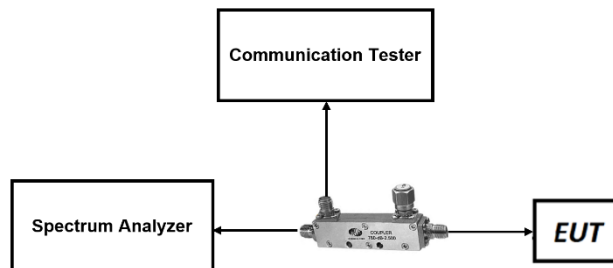


Figure 7-3. Test Instrument & Measurement Setup

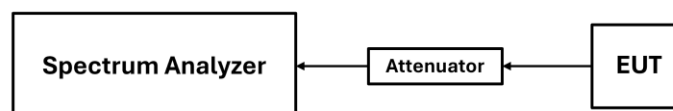




Figure 7-4. FR1 Test Instrument & Measurement Setup

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## **Test Notes**

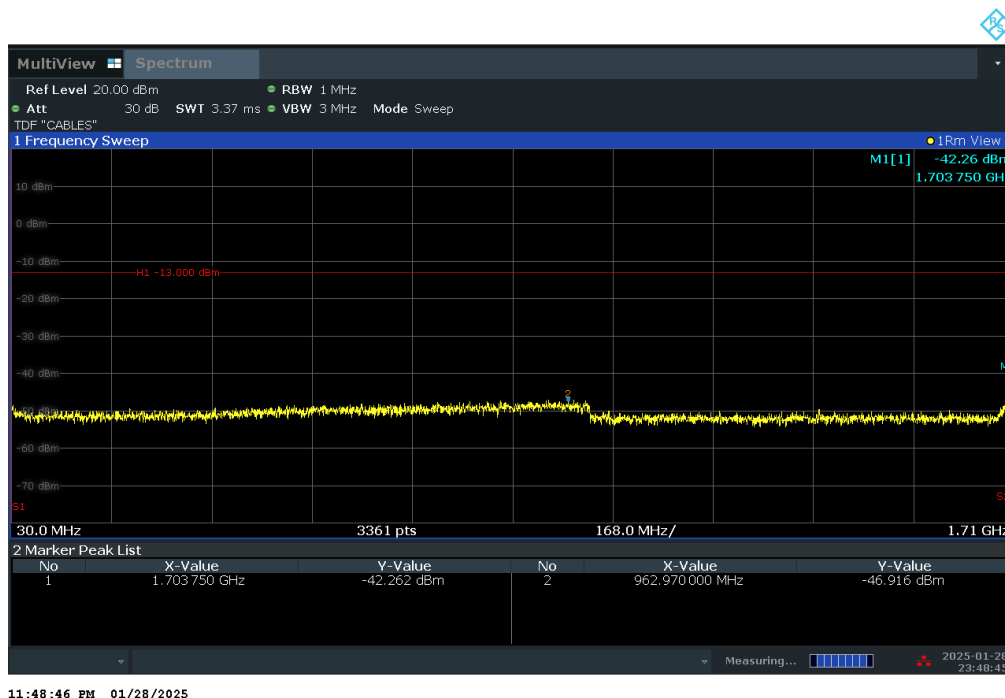
2. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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 emission are attenuated at least 26 dB below the transmitter power.
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.

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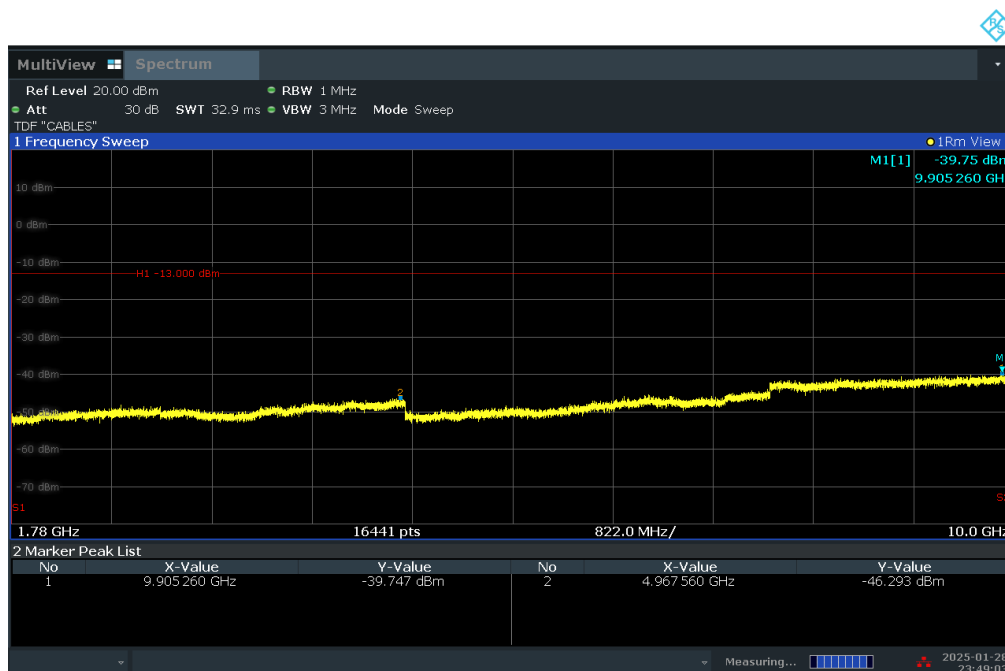


## LTE Band 66/4




11:48:46 PM 01/28/2025

Plot 7-77. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



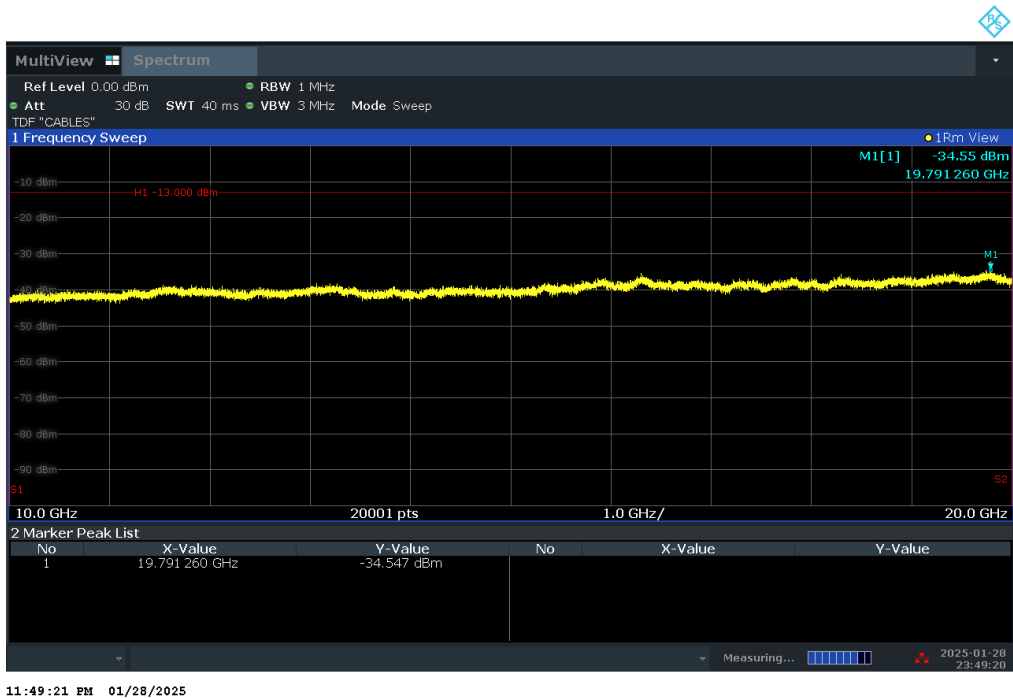
11:49:03 PM 01/28/2025

Plot 7-78. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

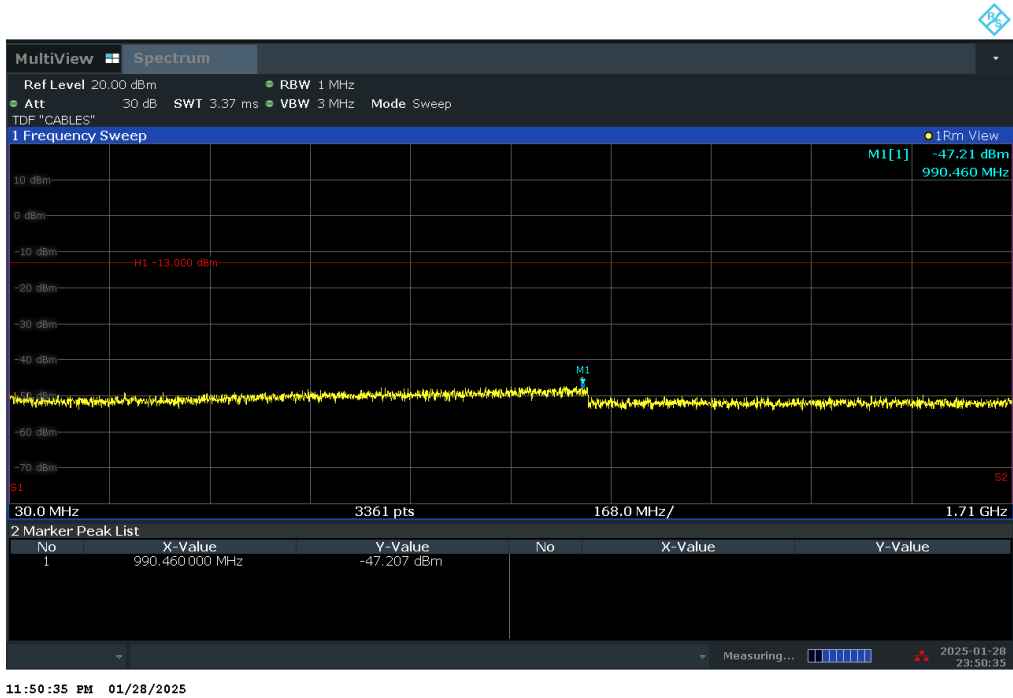
FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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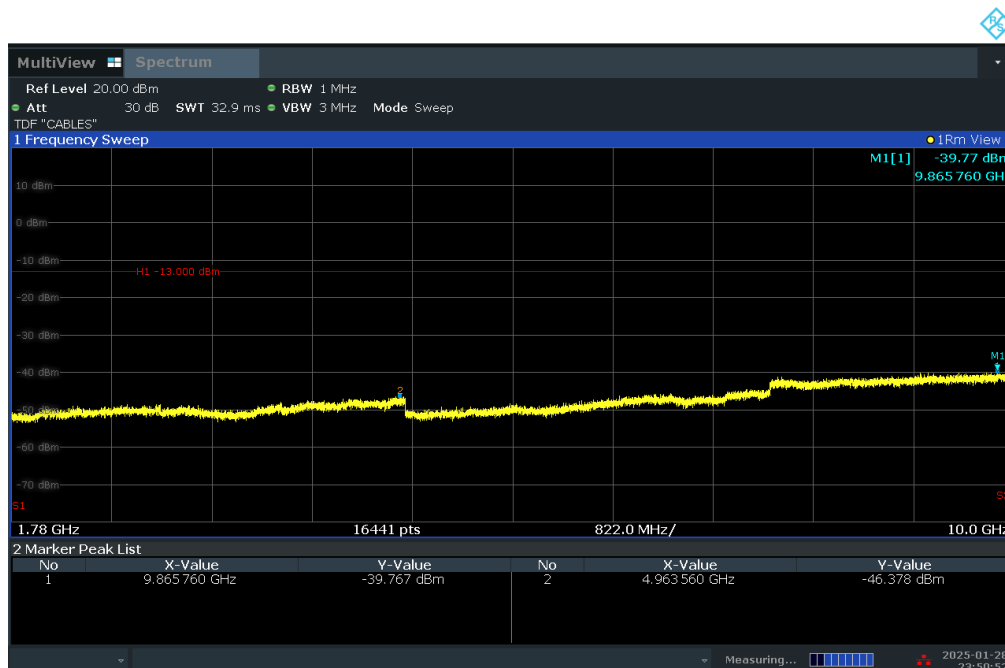


Plot 7-79. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



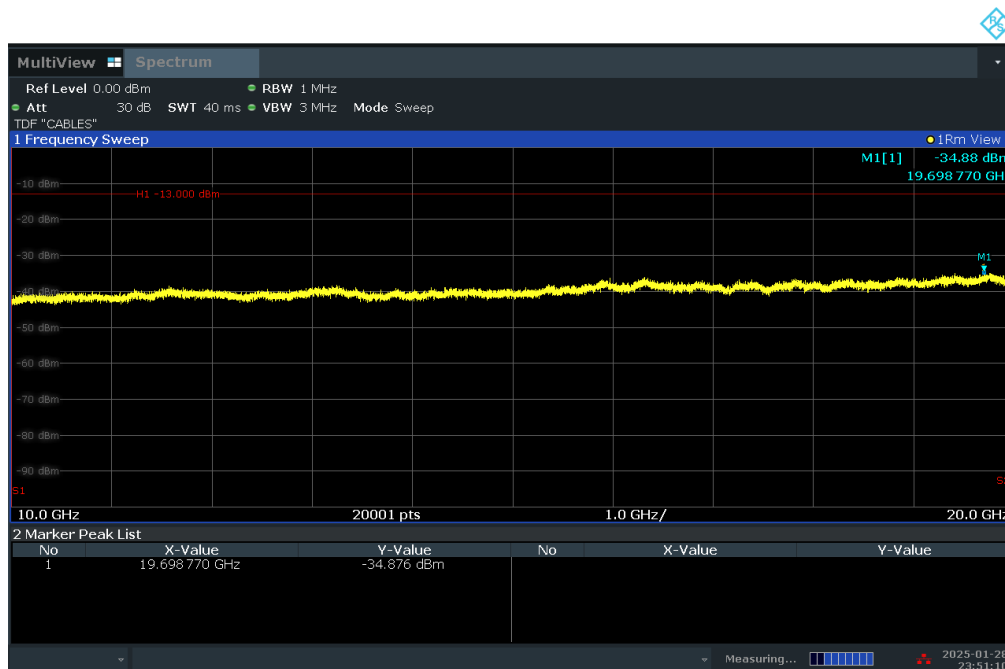
Plot 7-80. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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11:50:53 PM 01/28/2025

Plot 7-81. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



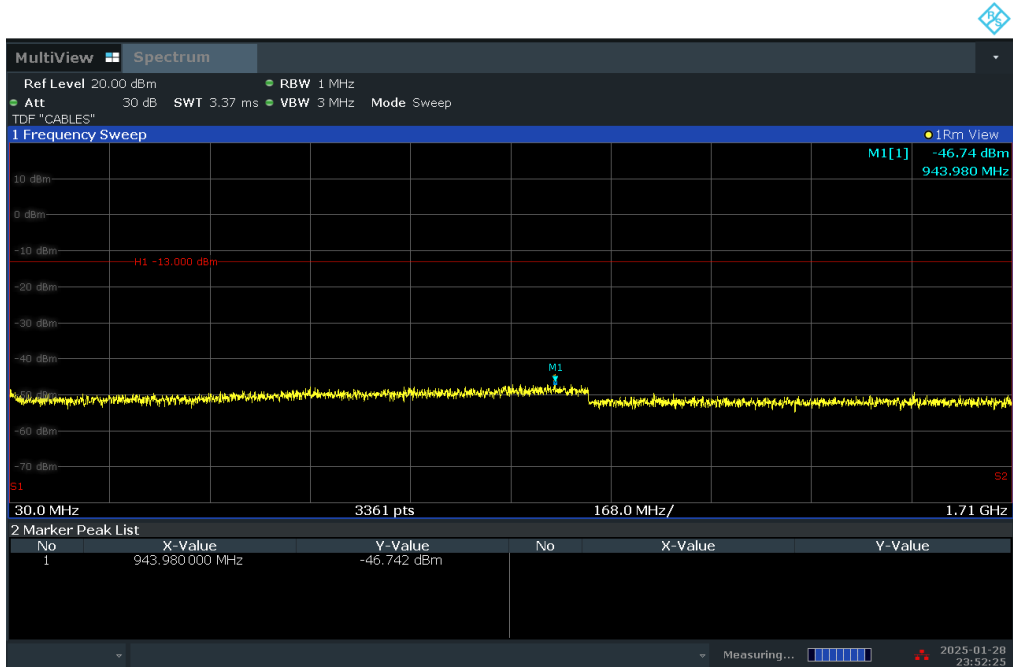
11:51:10 PM 01/28/2025

Plot 7-82. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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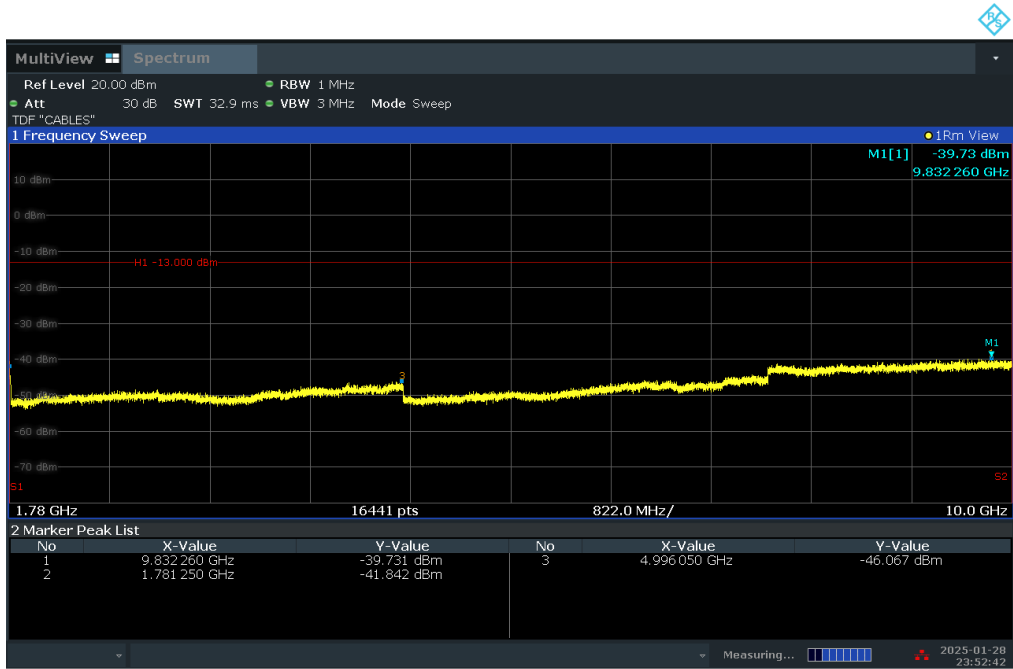
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11:52:25 PM 01/28/2025

Plot 7-83. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



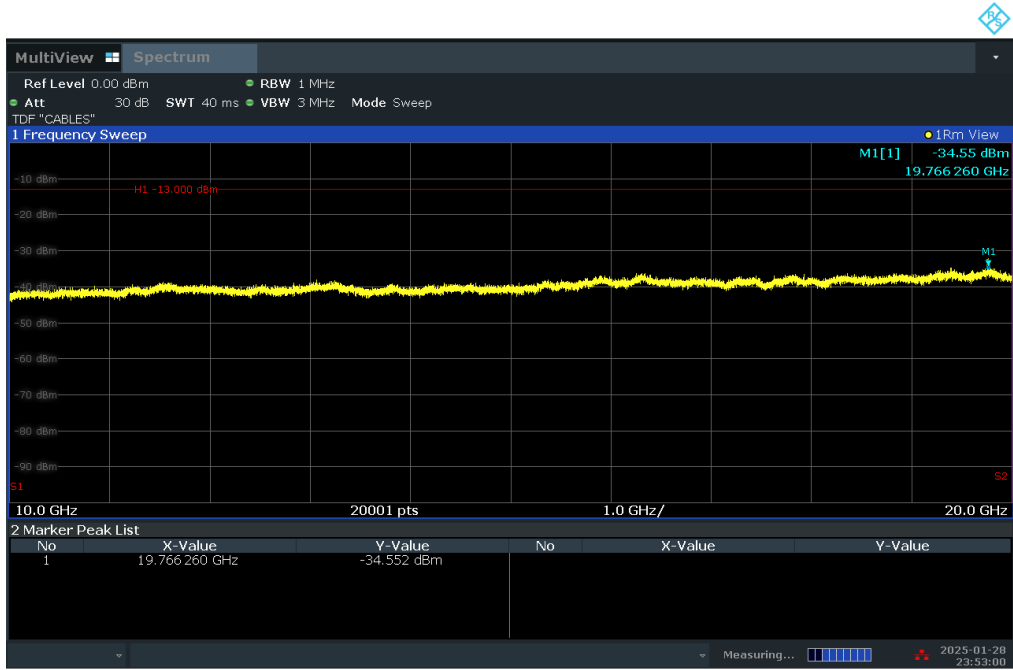
11:52:43 PM 01/28/2025

Plot 7-84. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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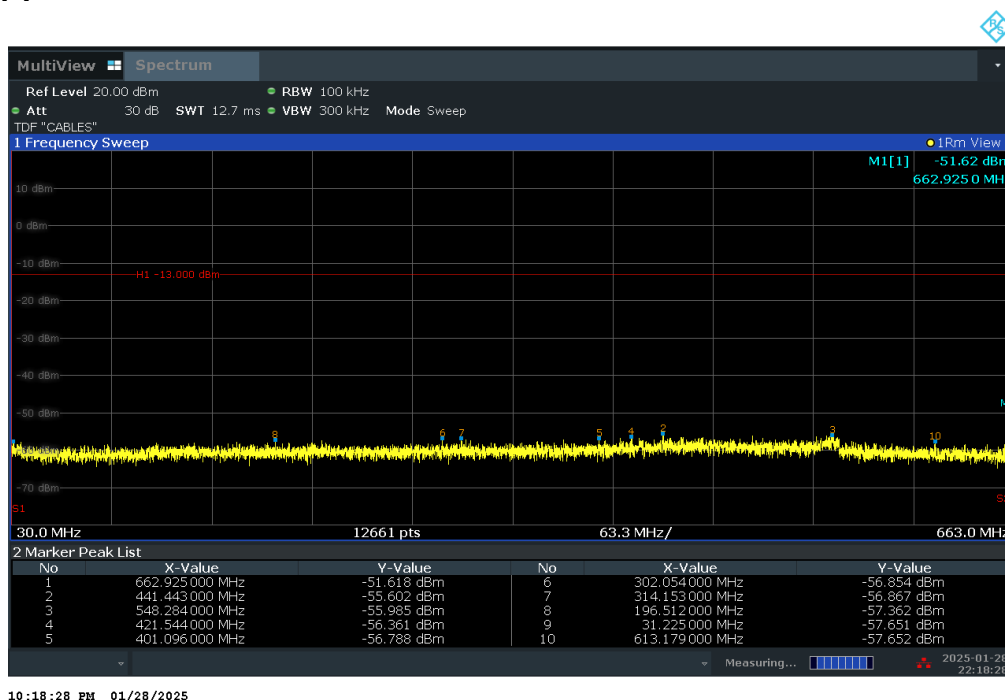
11:53:01 PM 01/28/2025

Plot 7-85. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

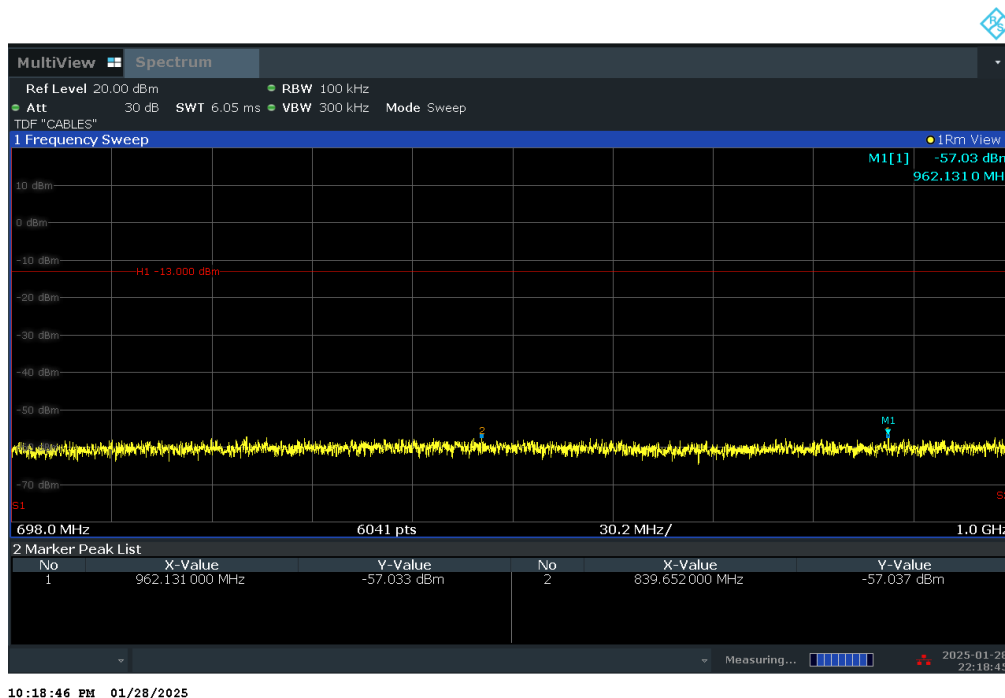
FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 71



Plot 7-86. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

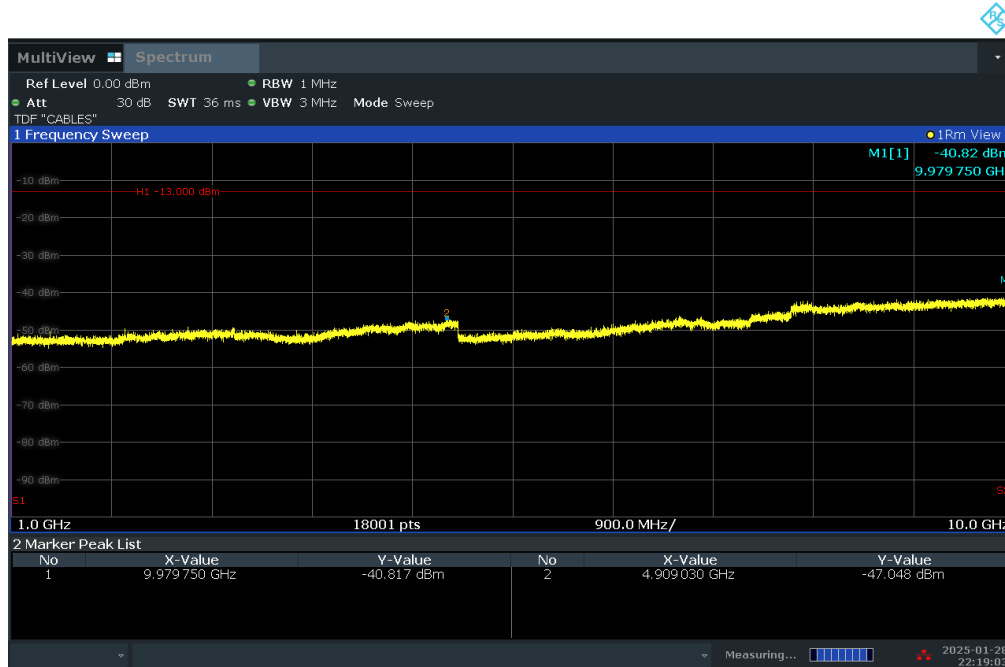


Plot 7-87. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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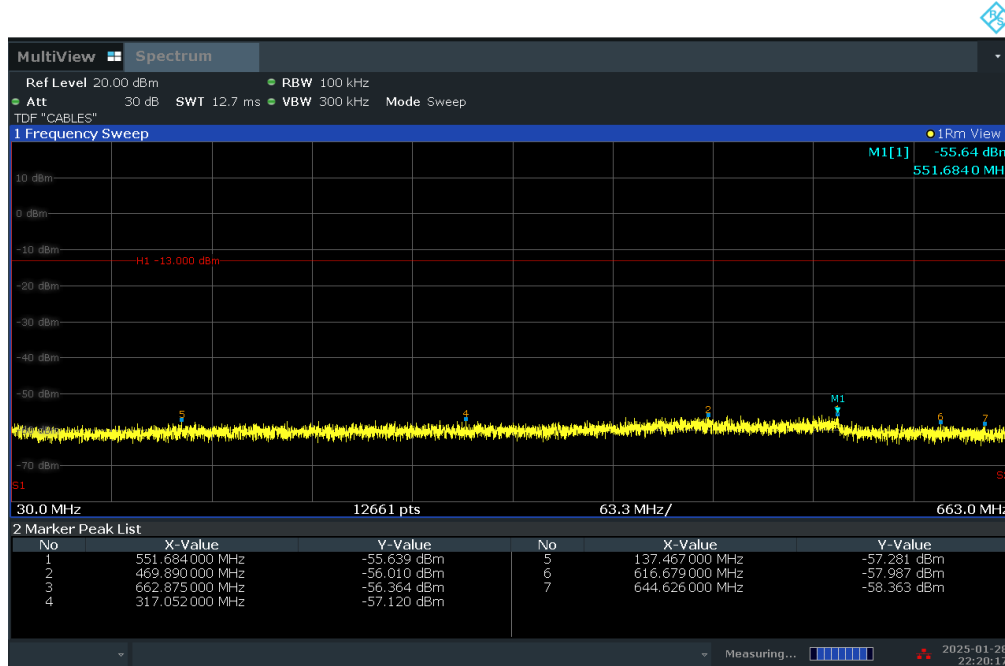
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10:19:03 PM 01/28/2025

Plot 7-88. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



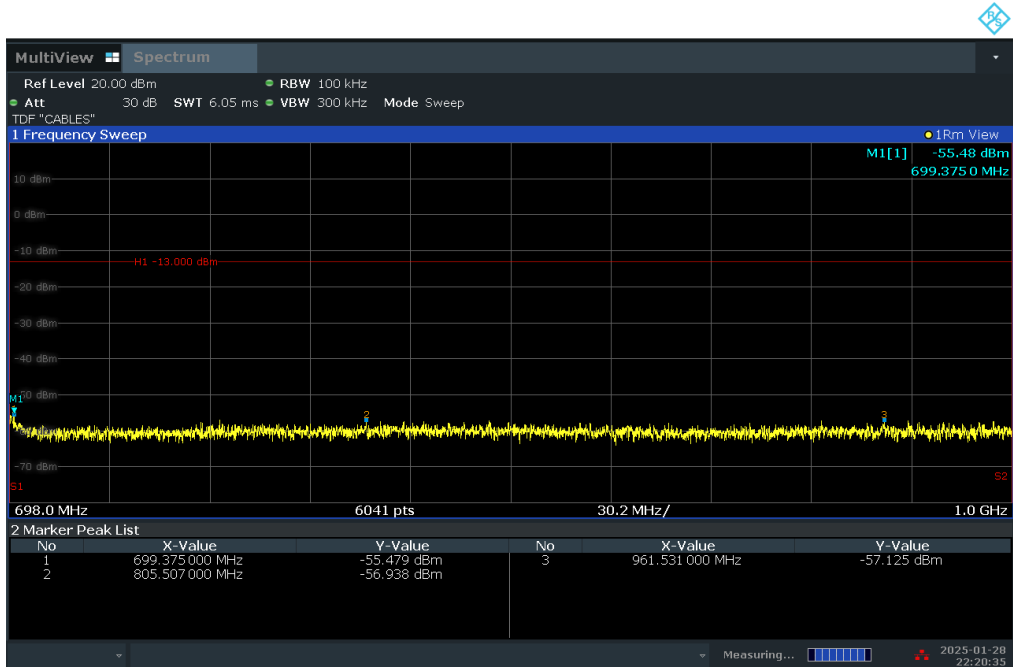
10:20:18 PM 01/28/2025

Plot 7-89. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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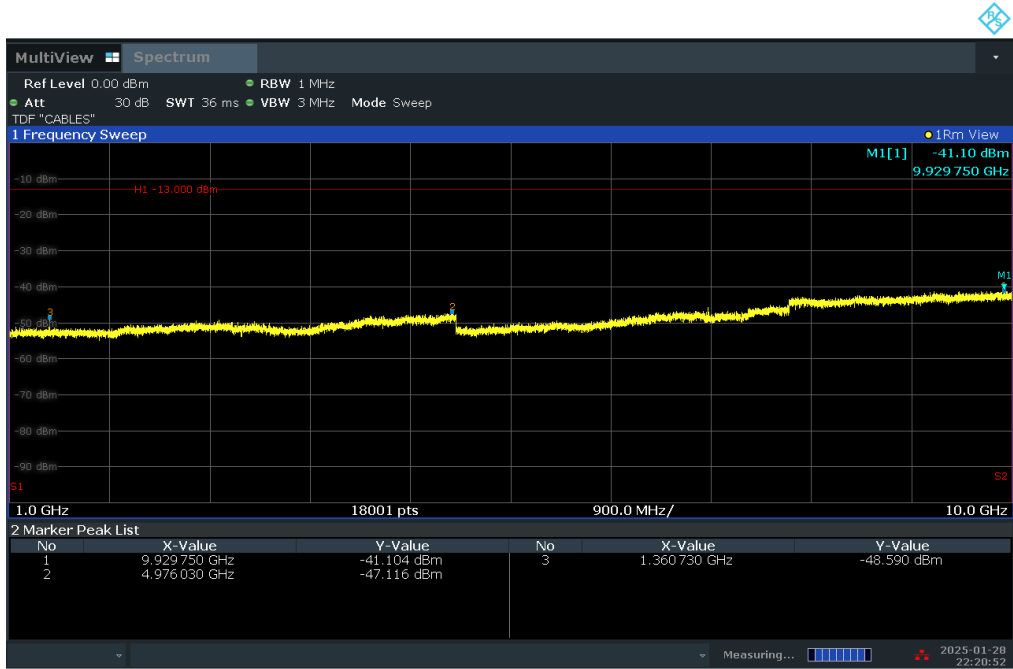
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10:20:35 PM 01/28/2025

Plot 7-90. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



10:20:53 PM 01/28/2025

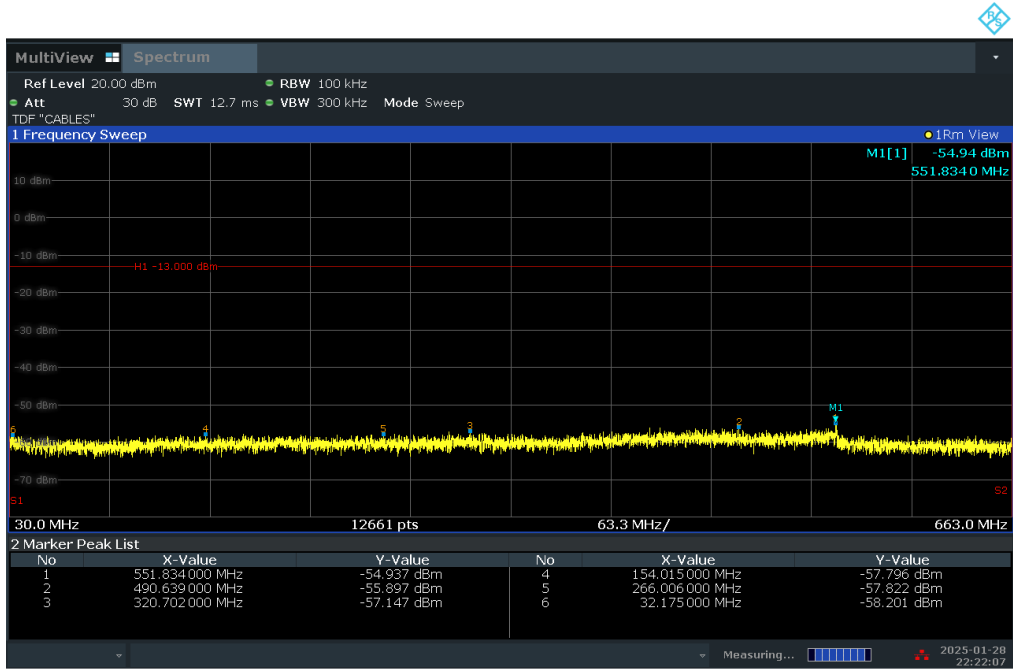
Plot 7-91. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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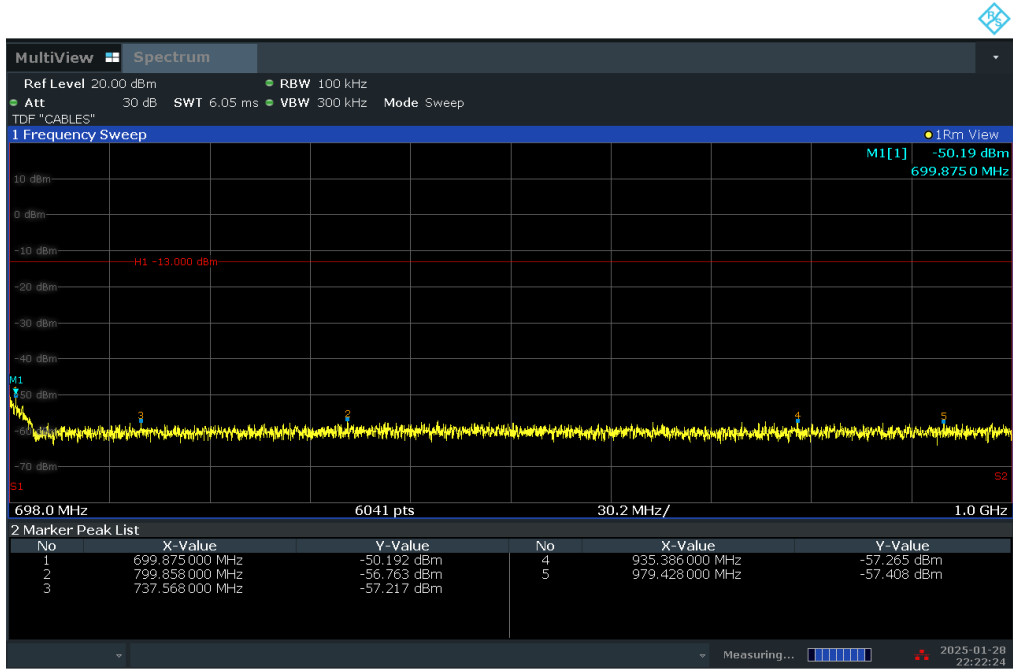
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10:22:07 PM 01/28/2025

Plot 7-92. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



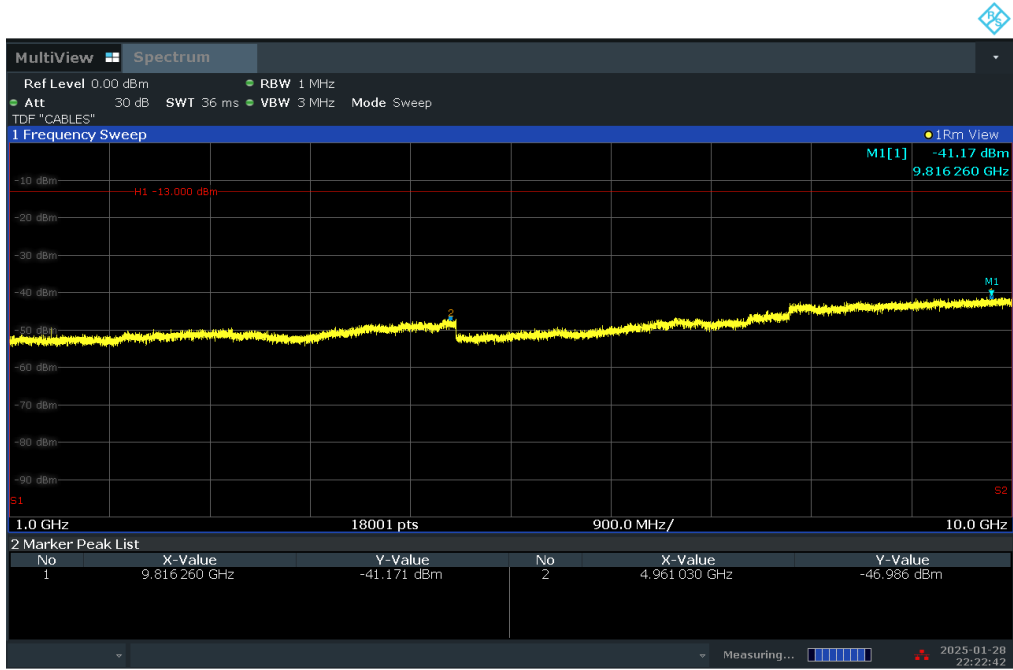
10:22:25 PM 01/28/2025

Plot 7-93. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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10:22:42 PM 01/28/2025

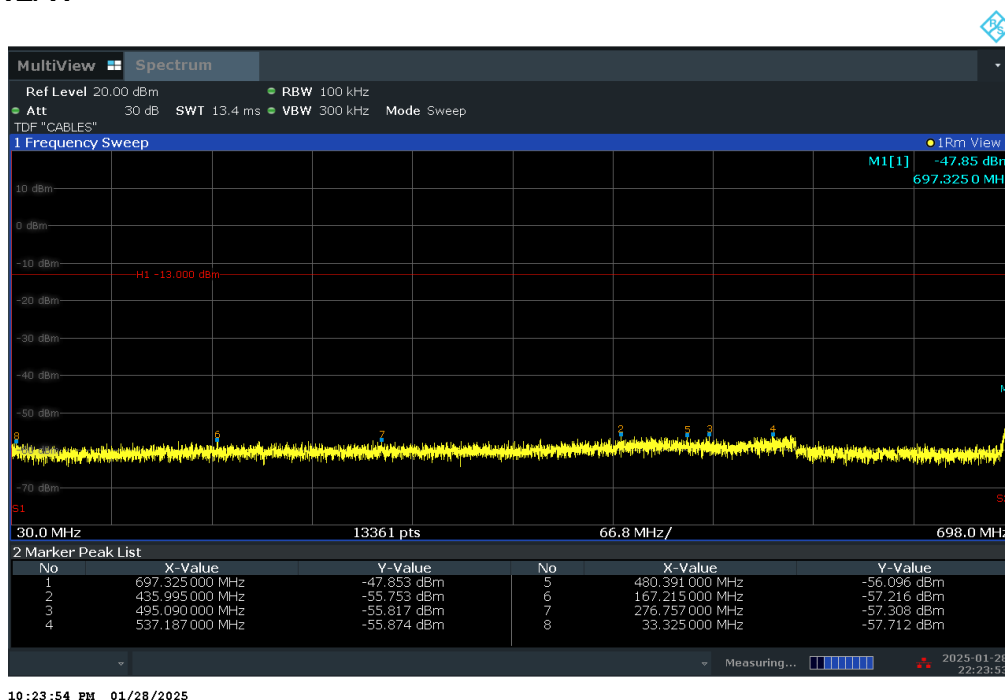
Plot 7-94. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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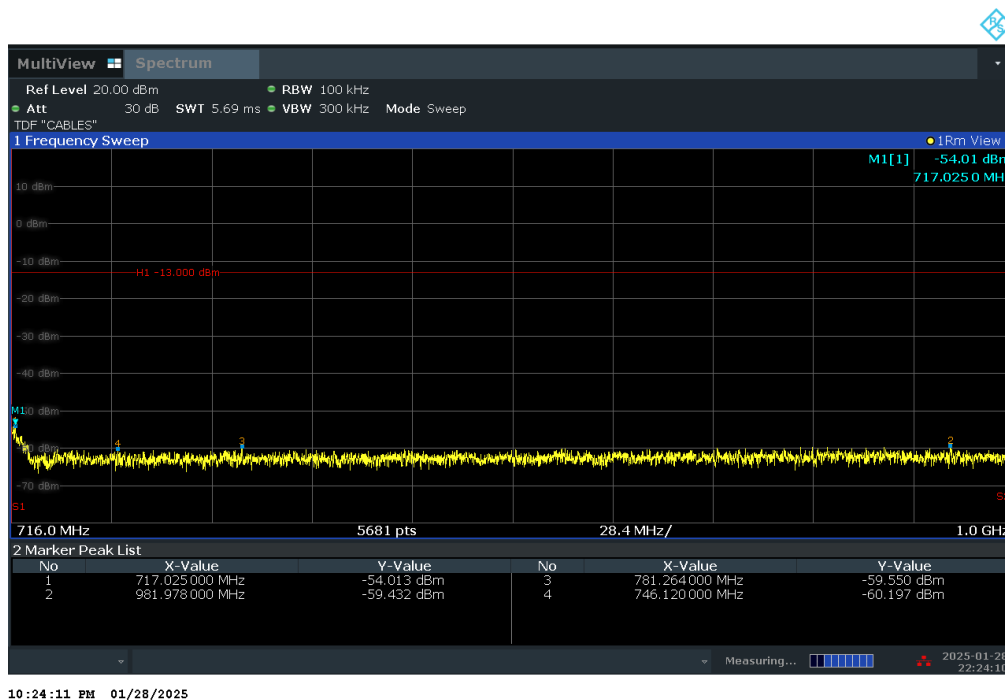
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## LTE Band 12/17



Plot 7-95. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

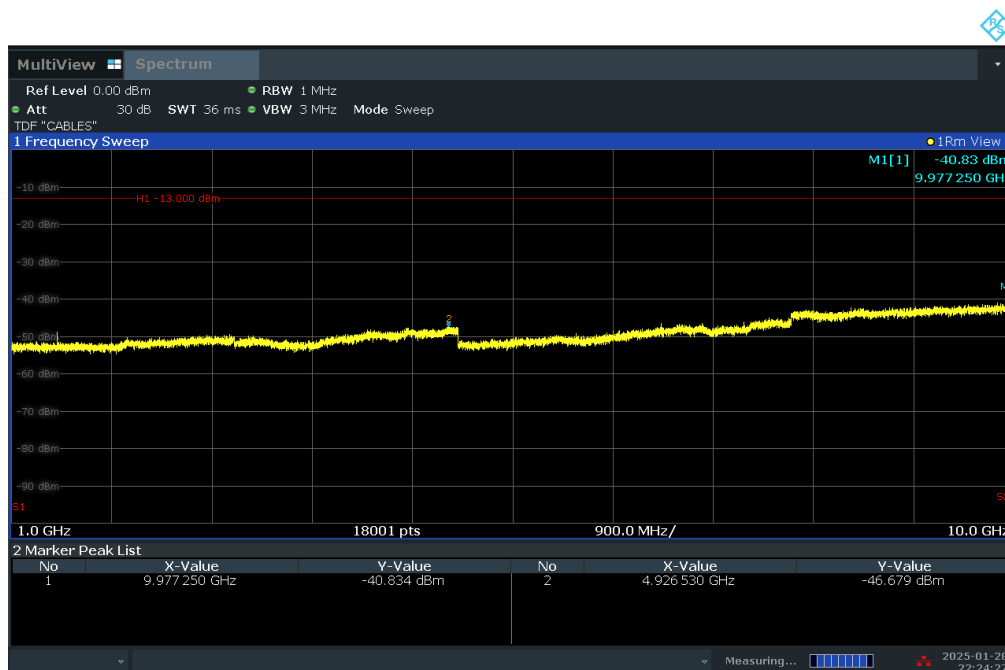


Plot 7-96. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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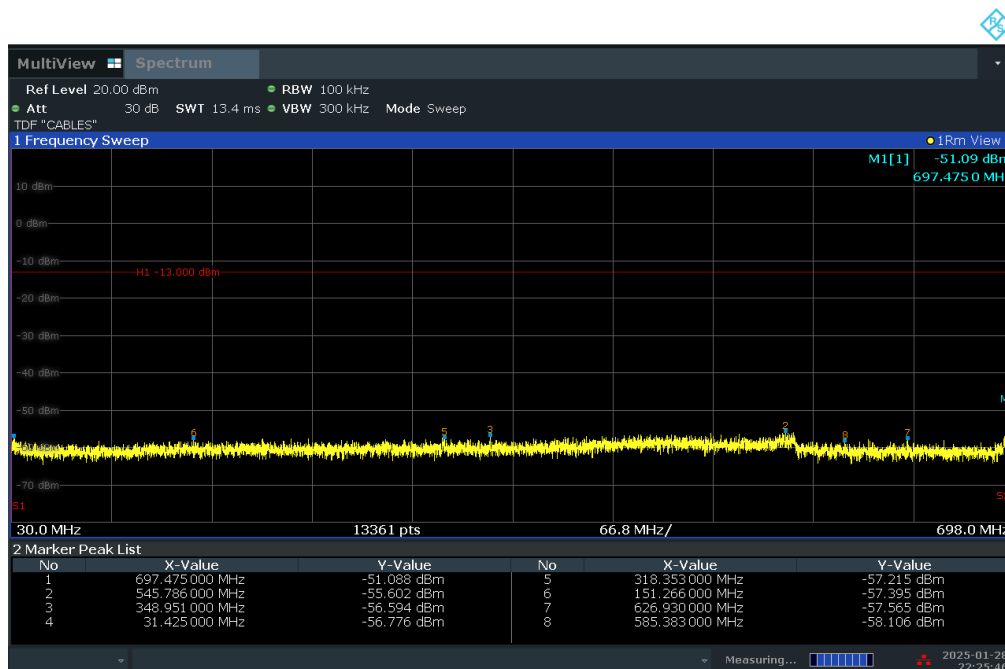
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10:24:28 PM 01/28/2025

Plot 7-97. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



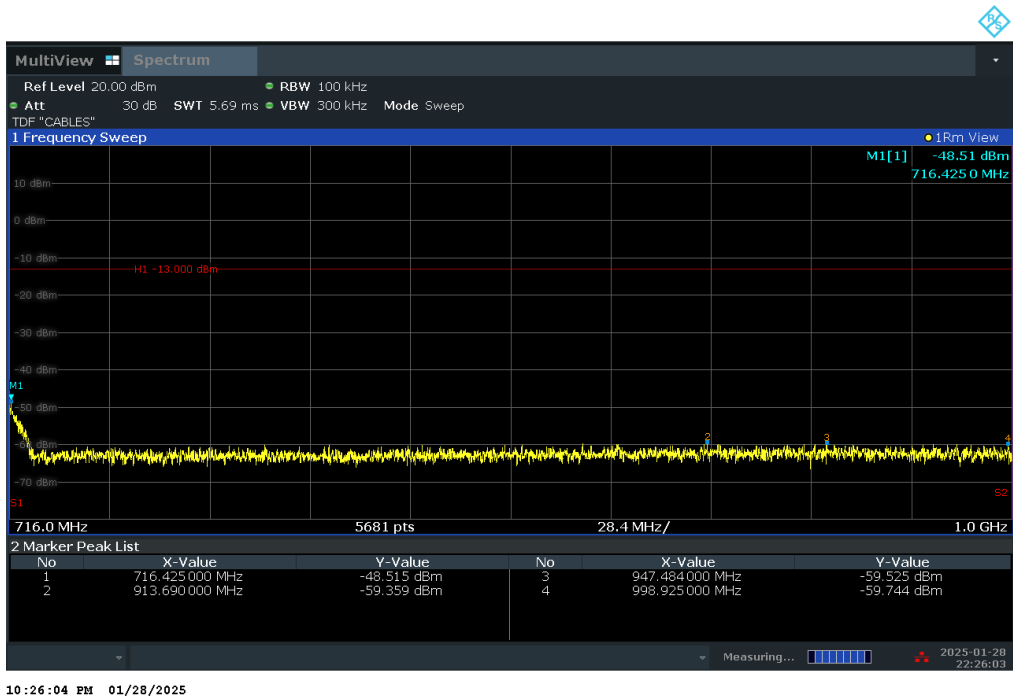
10:25:47 PM 01/28/2025

Plot 7-98. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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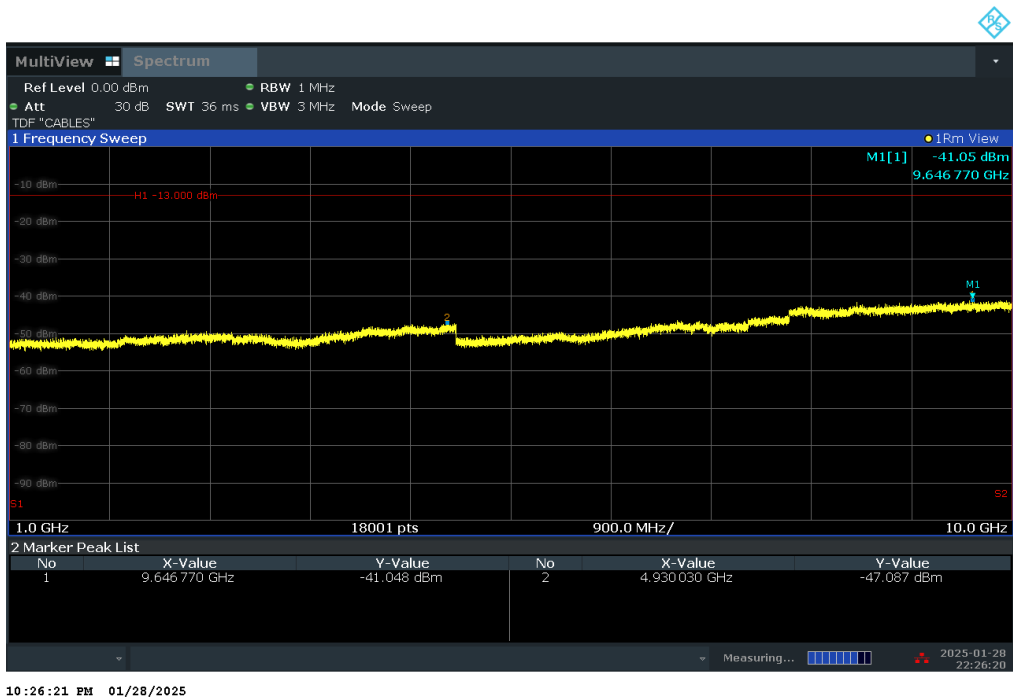
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10:26:04 PM 01/28/2025

Plot 7-99. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



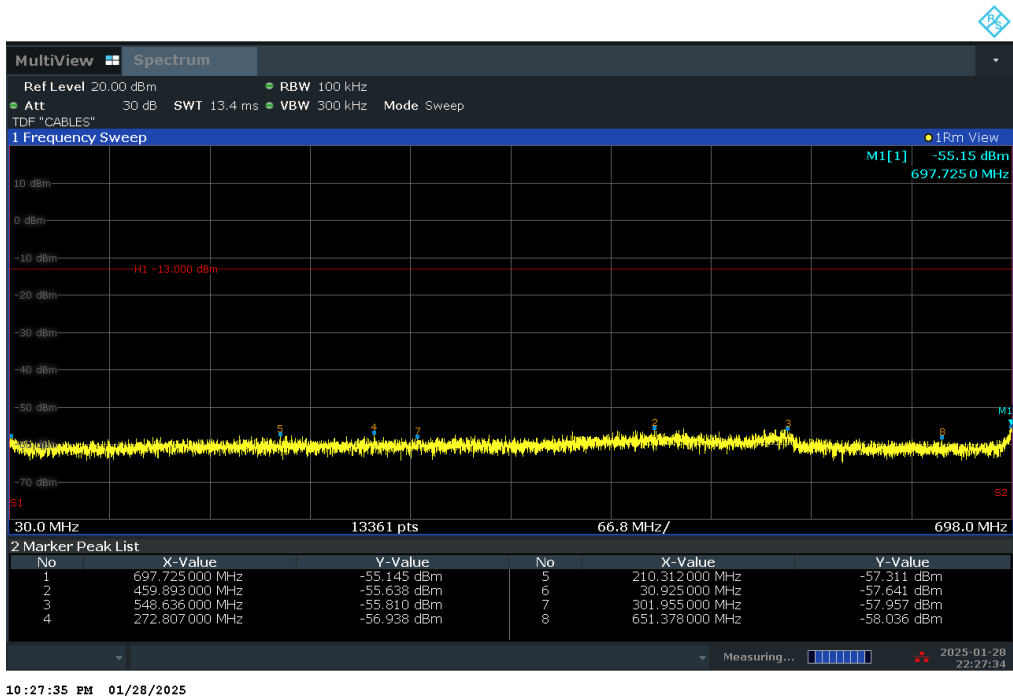
10:26:21 PM 01/28/2025

Plot 7-100. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 69 of 203

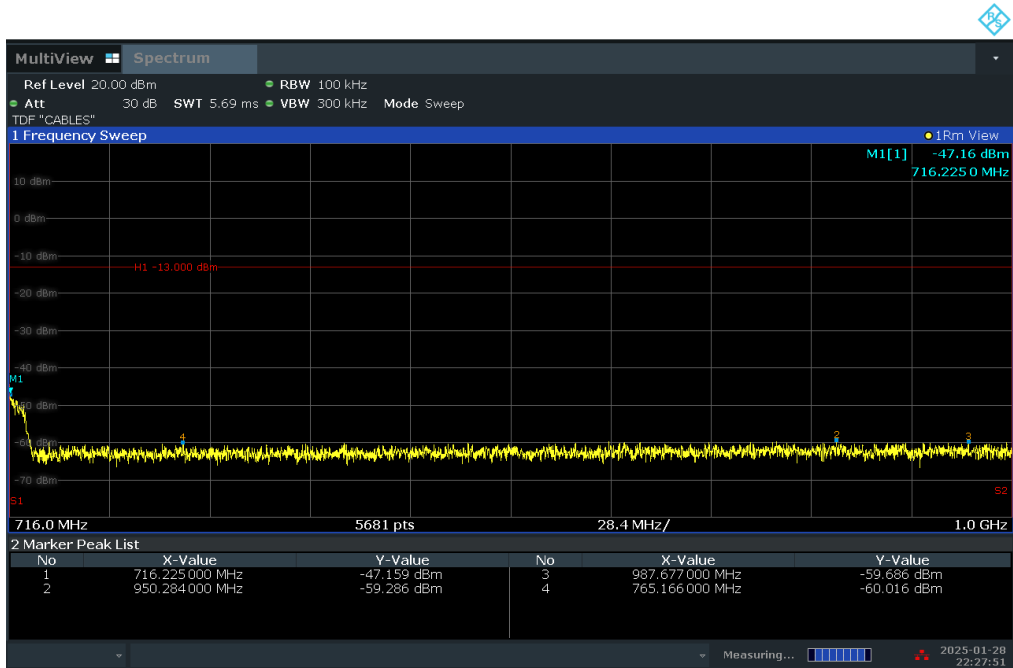
V2.2 09/07/2023

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10:27:35 PM 01/28/2025

Plot 7-101. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



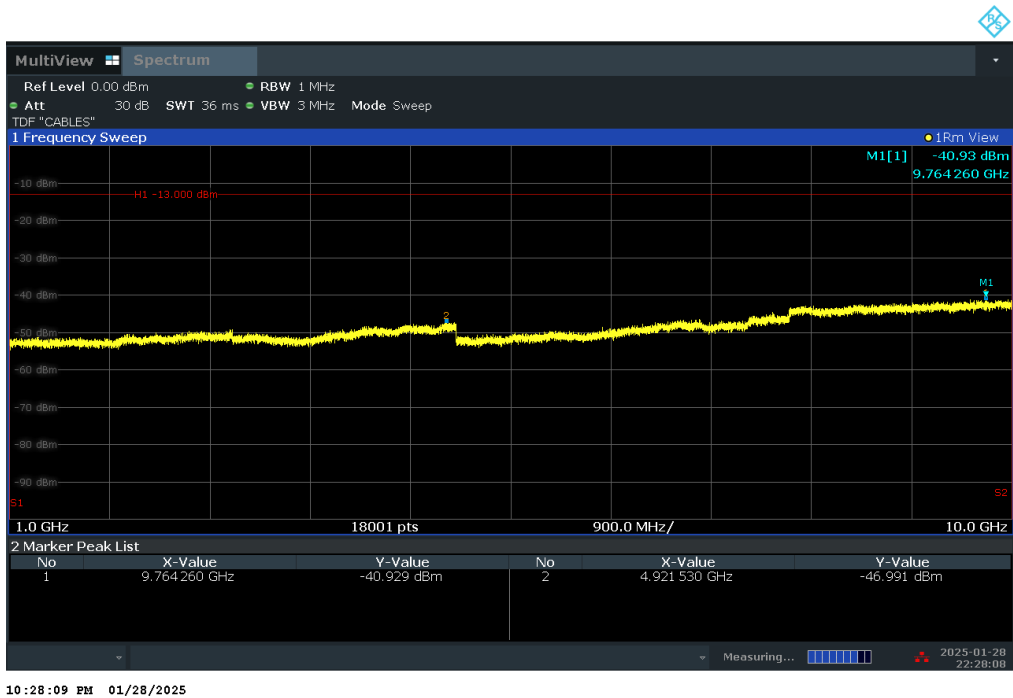
10:27:52 PM 01/28/2025

Plot 7-102. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 70 of 203

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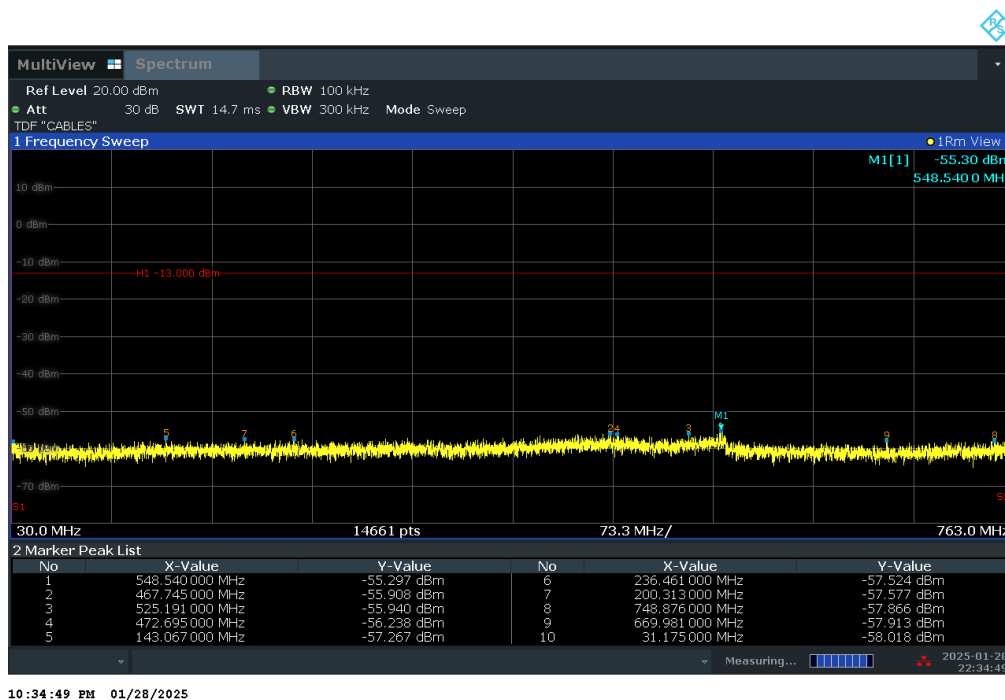
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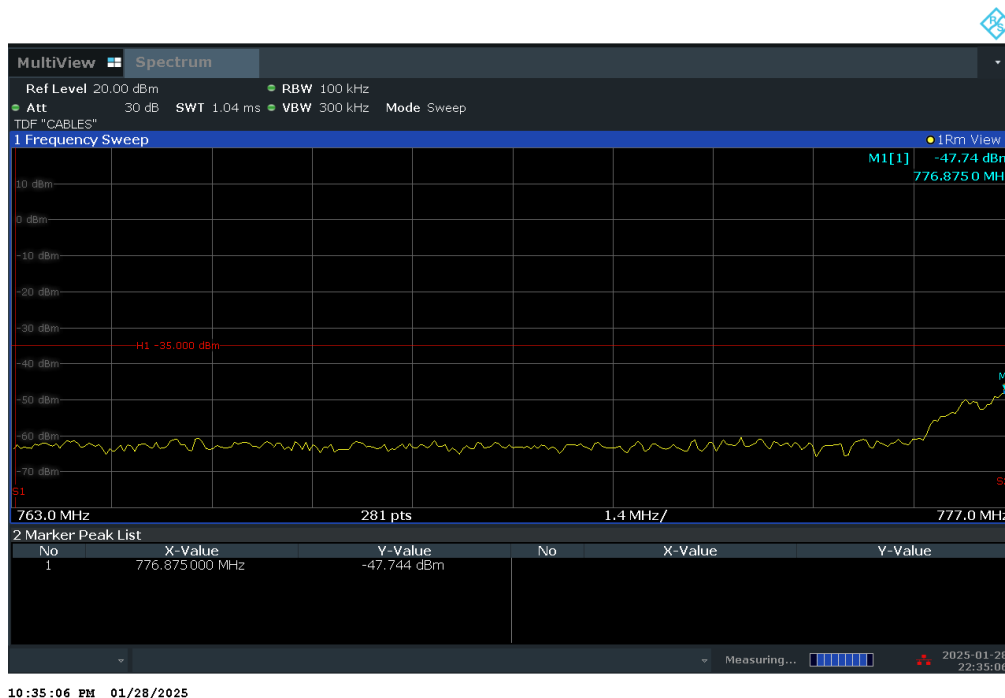
Plot 7-103. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 71 of 203


## LTE Band 13



Plot 7-104. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)



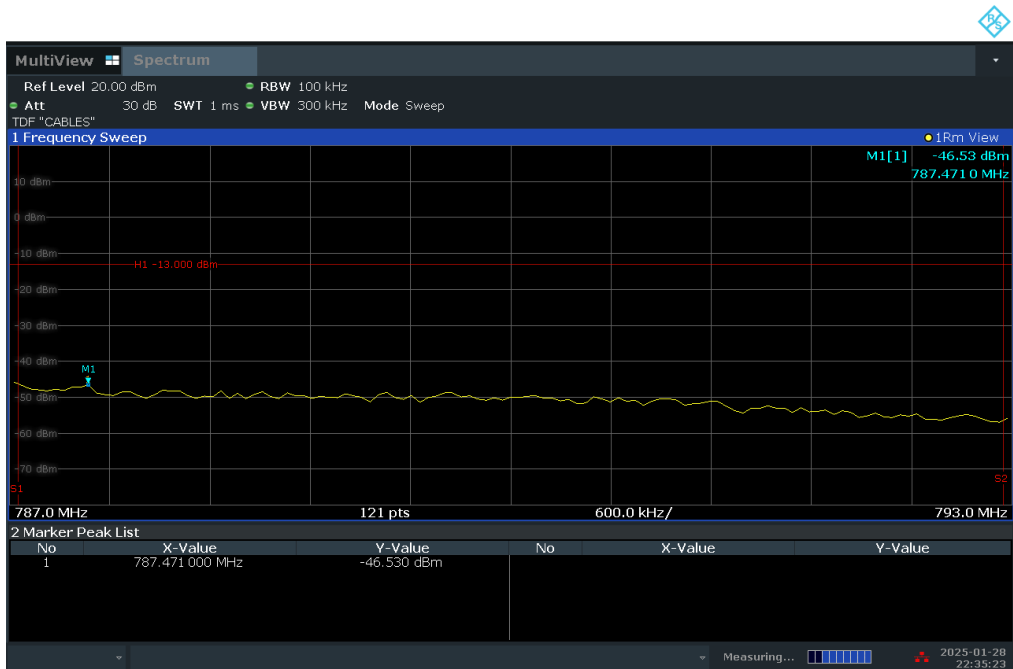
Plot 7-105. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 72 of 203

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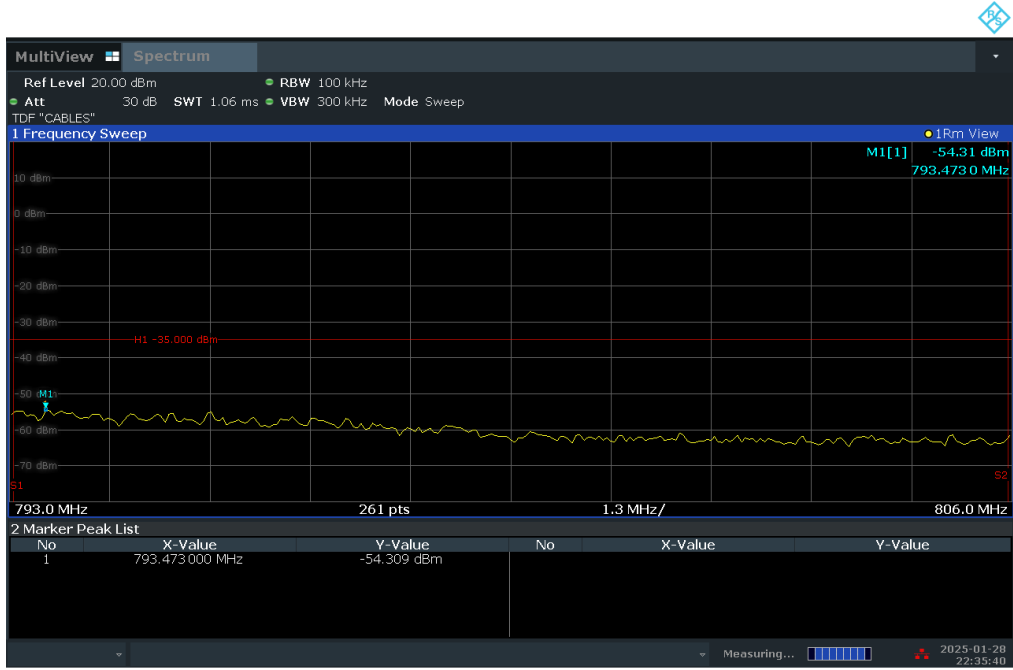
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10:35:24 PM 01/28/2025

Plot 7-106. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)



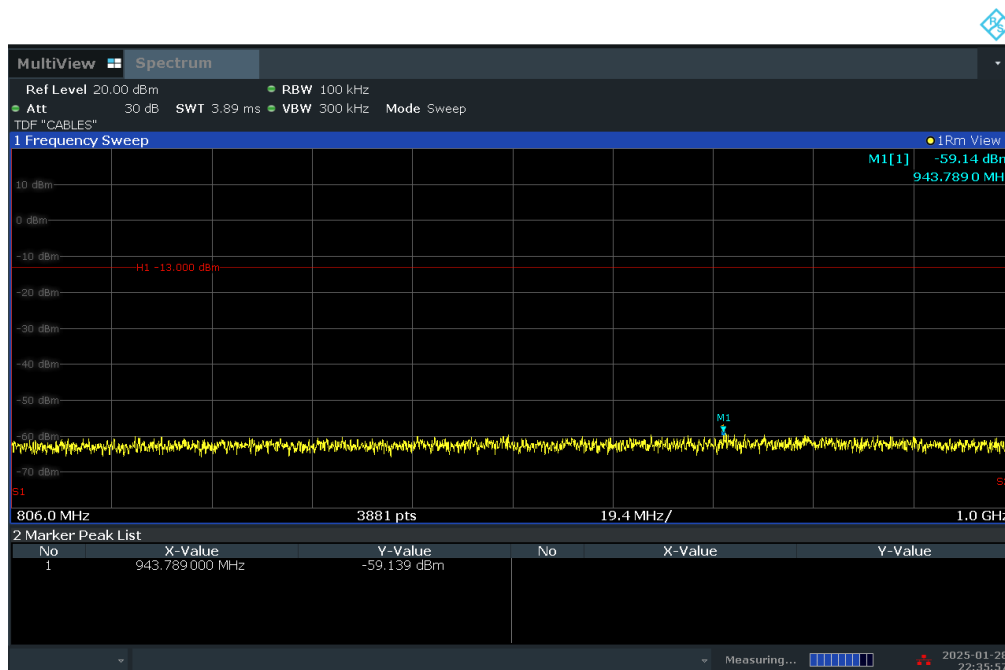
10:35:41 PM 01/28/2025

Plot 7-107. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 73 of 203

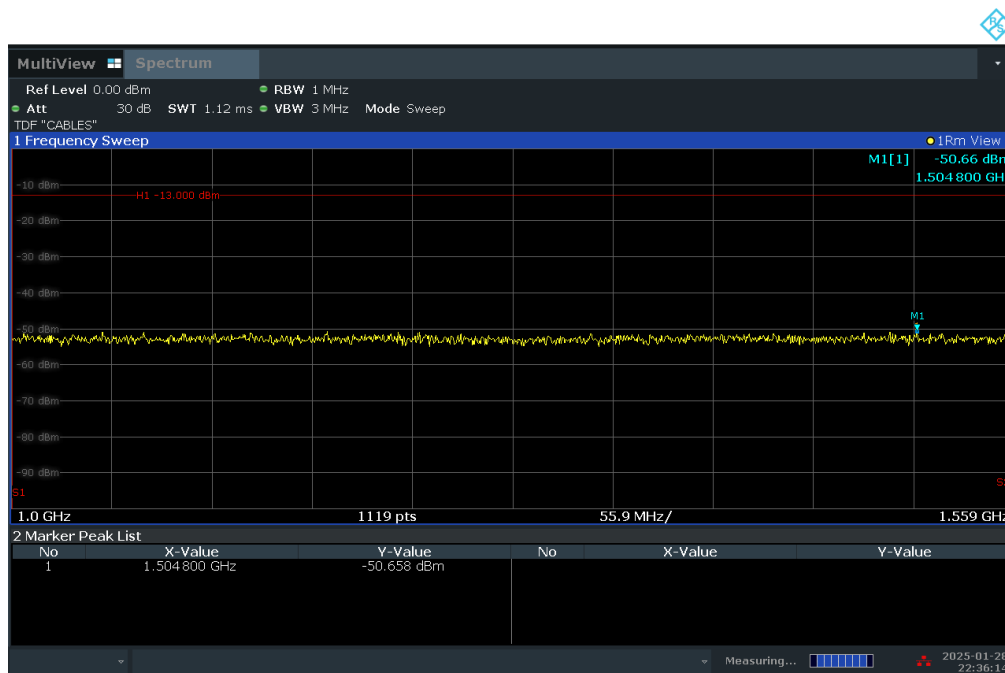
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10:35:58 PM 01/28/2025

**Plot 7-108. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)**



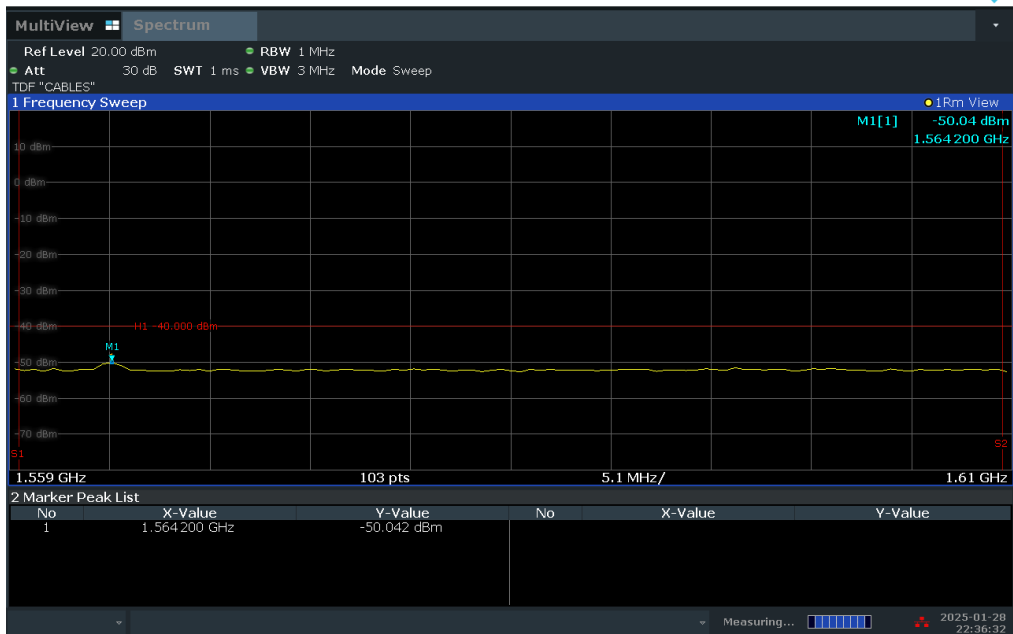
10:36:15 PM 01/28/2025

**Plot 7-109. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)**

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 74 of 203

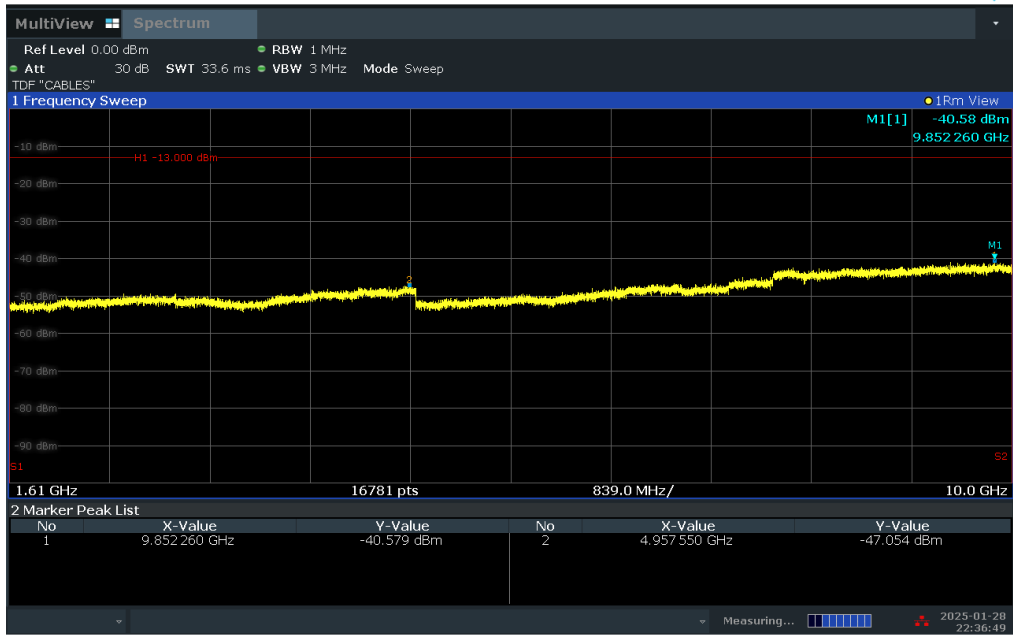
V2.2 09/07/2023

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10:36:32 PM 01/28/2025

Plot 7-110. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)



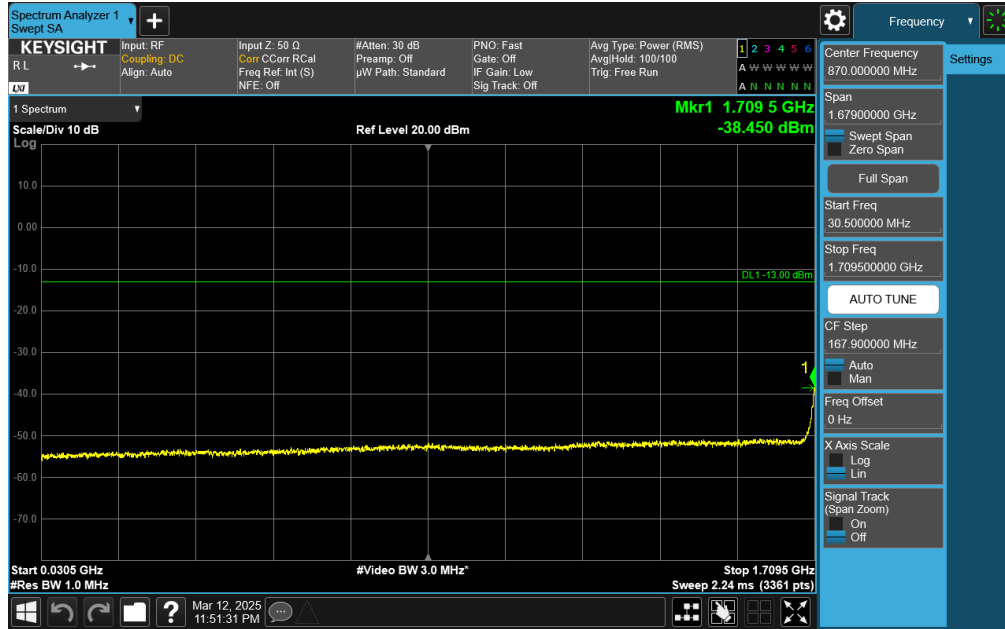
10:36:49 PM 01/28/2025

Plot 7-111. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - RB Size 1, RB Offset 0)

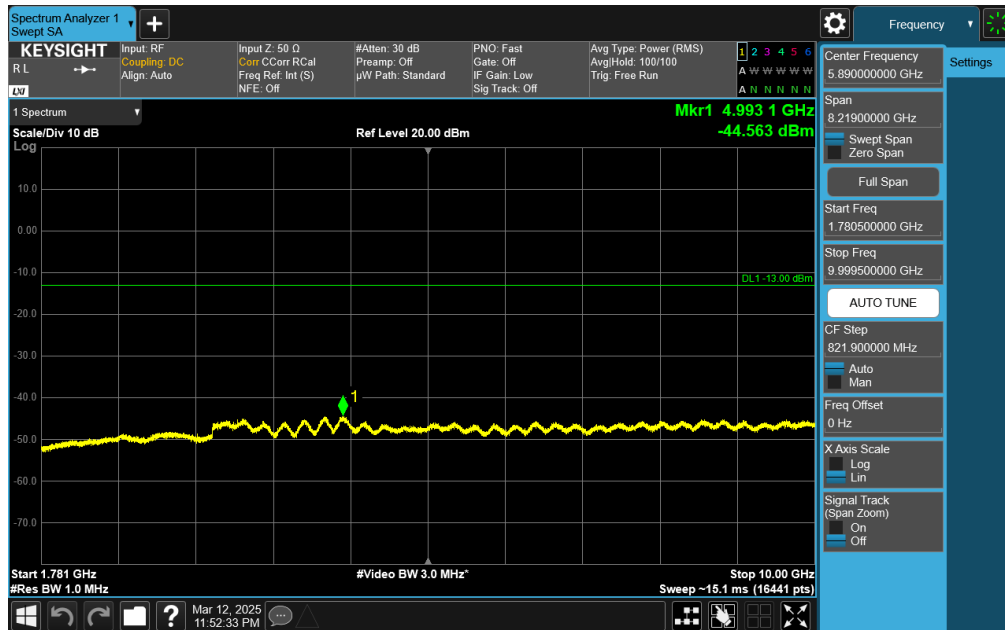
FCC ID: BCG-A3281	element PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 75 of 203

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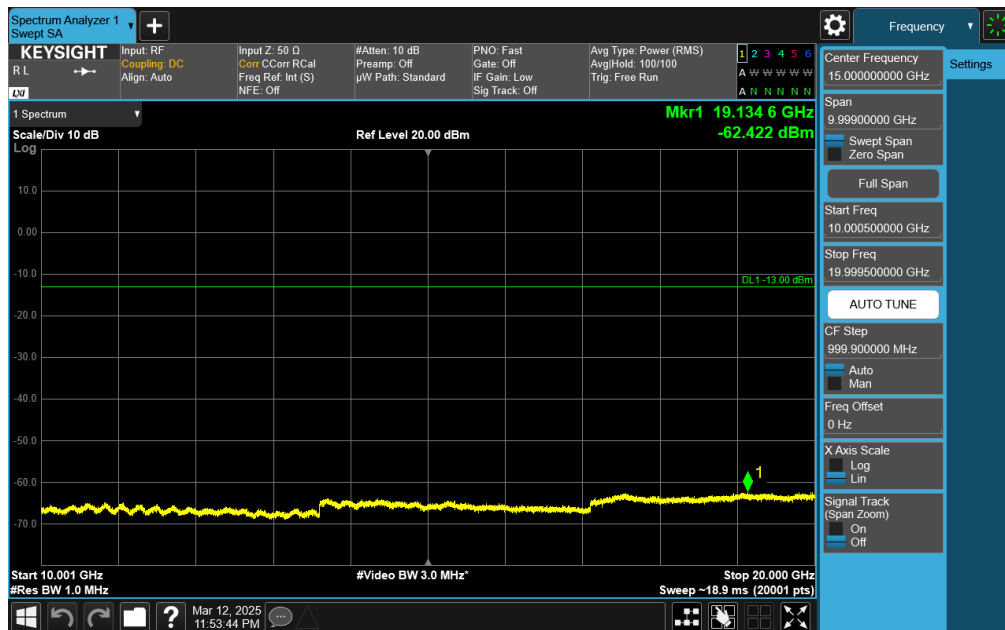


Plot 7-112. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

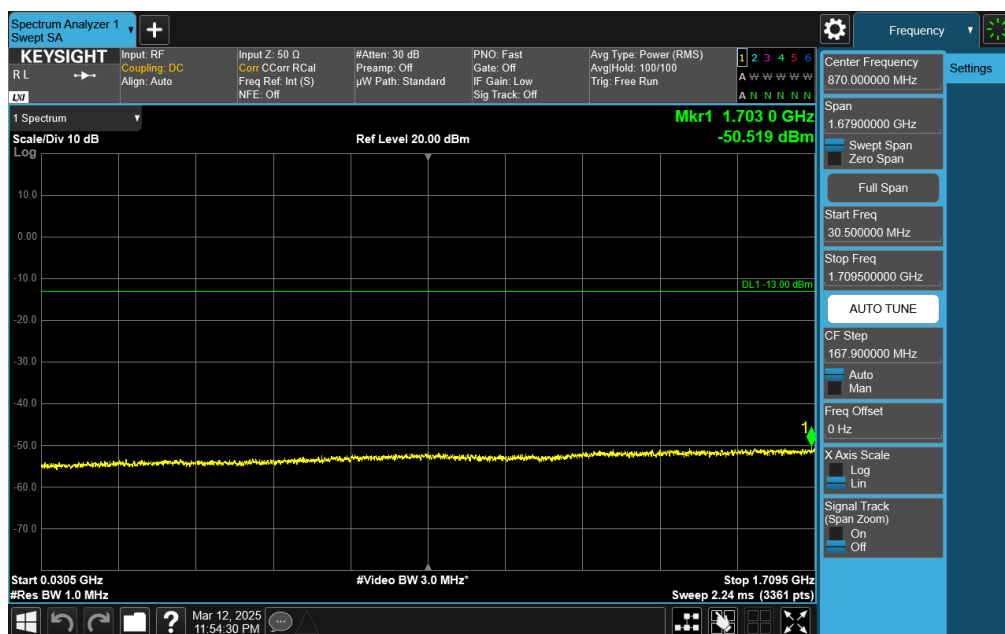


Plot 7-113. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-114. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

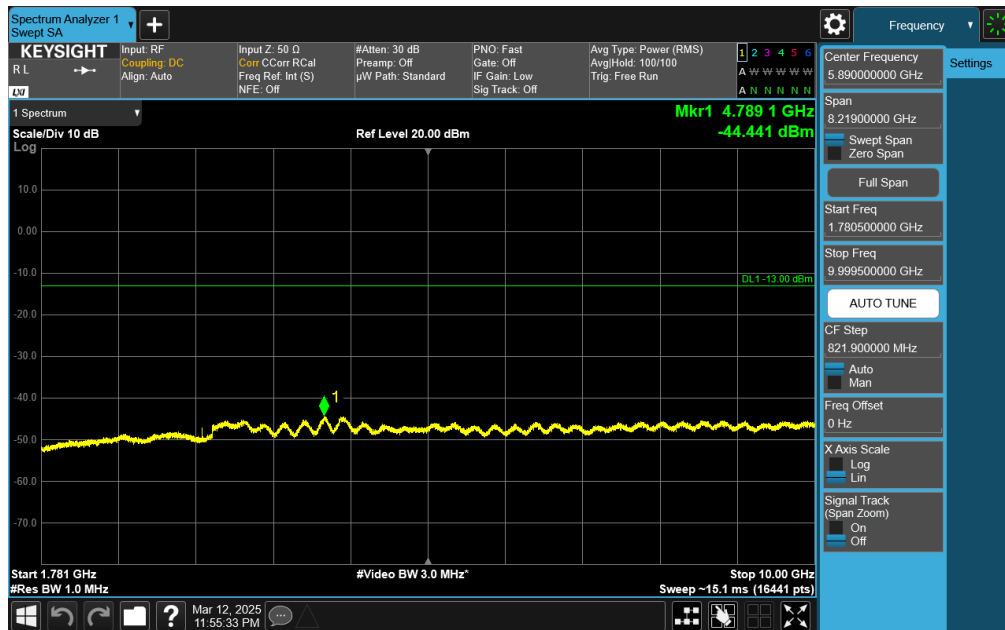


Plot 7-115. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

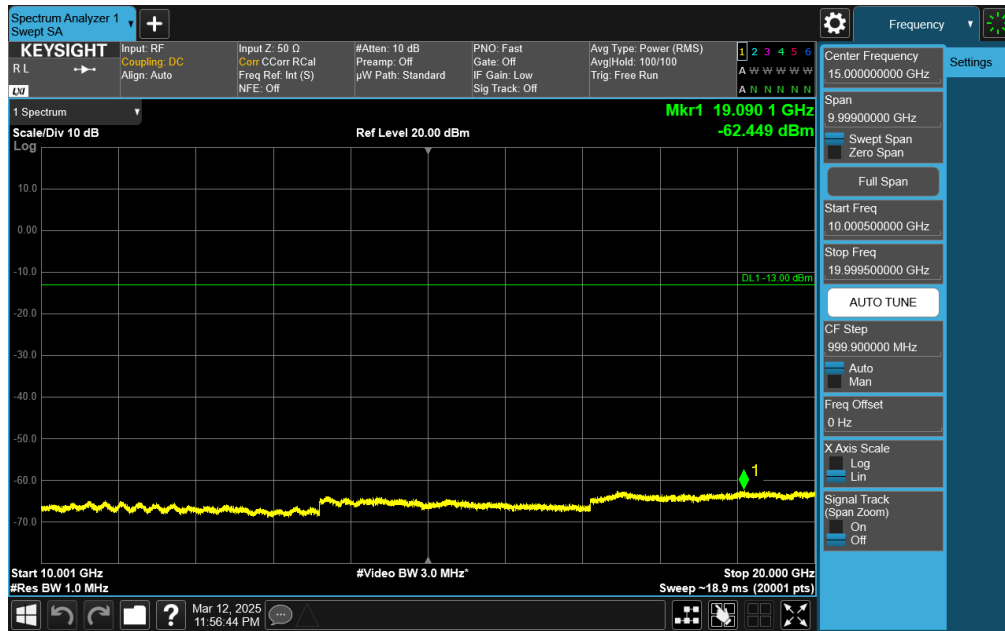
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 77 of 203

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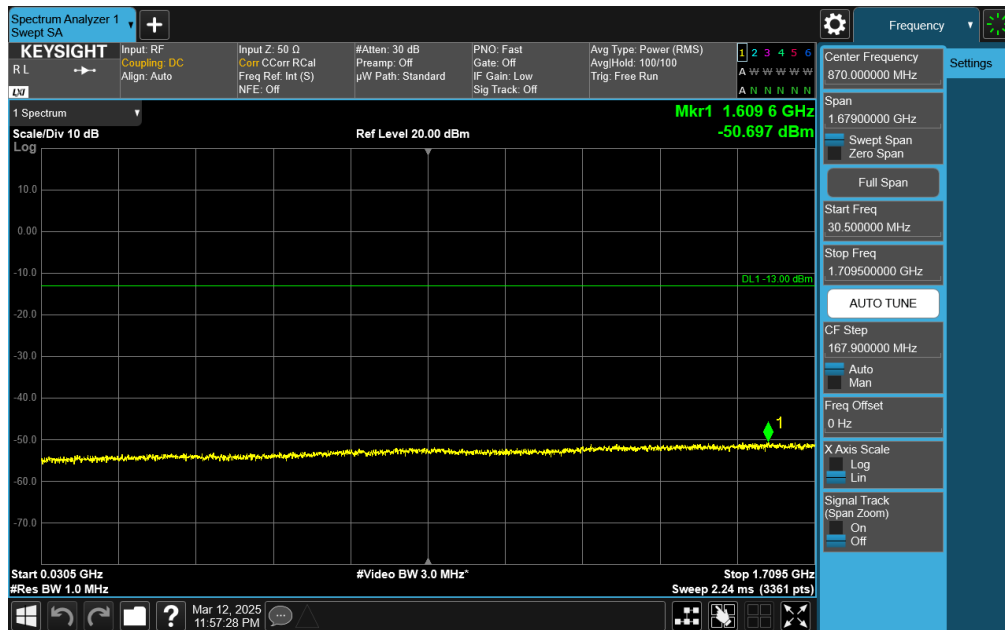


Plot 7-116. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

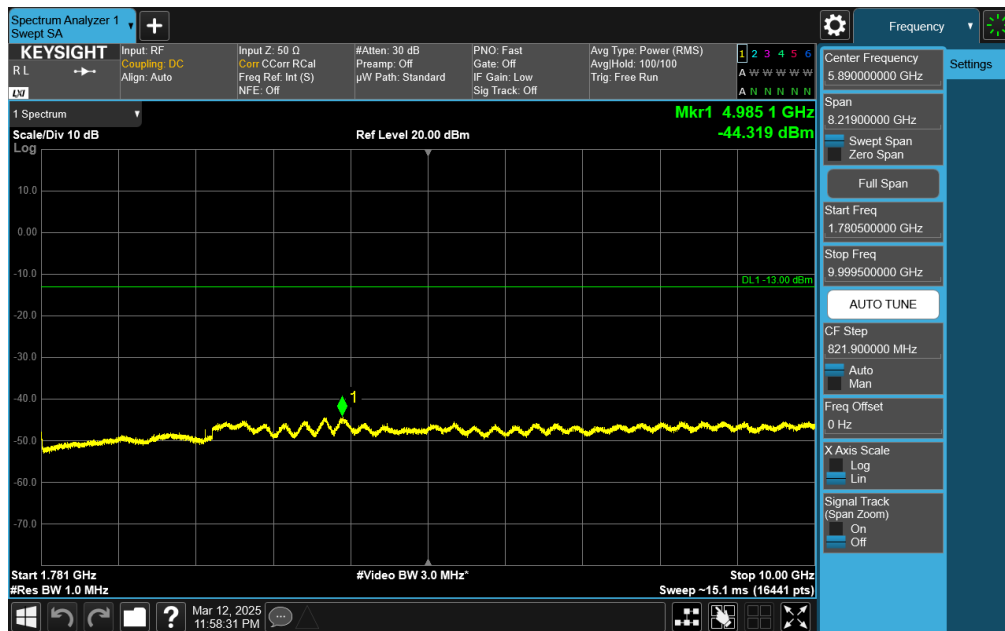


Plot 7-117. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-118. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

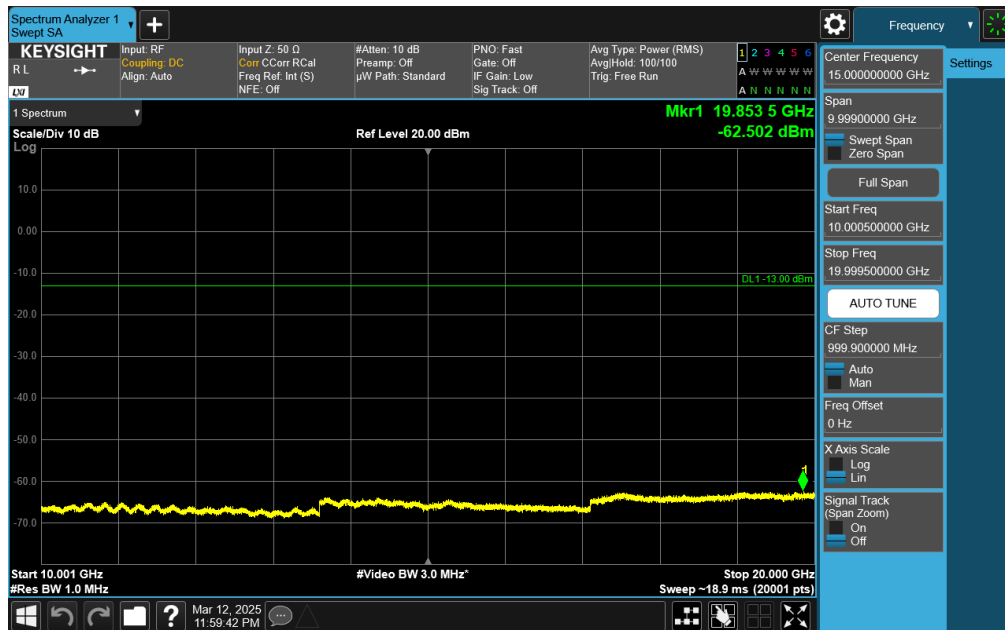


Plot 7-119. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)


FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 79 of 203

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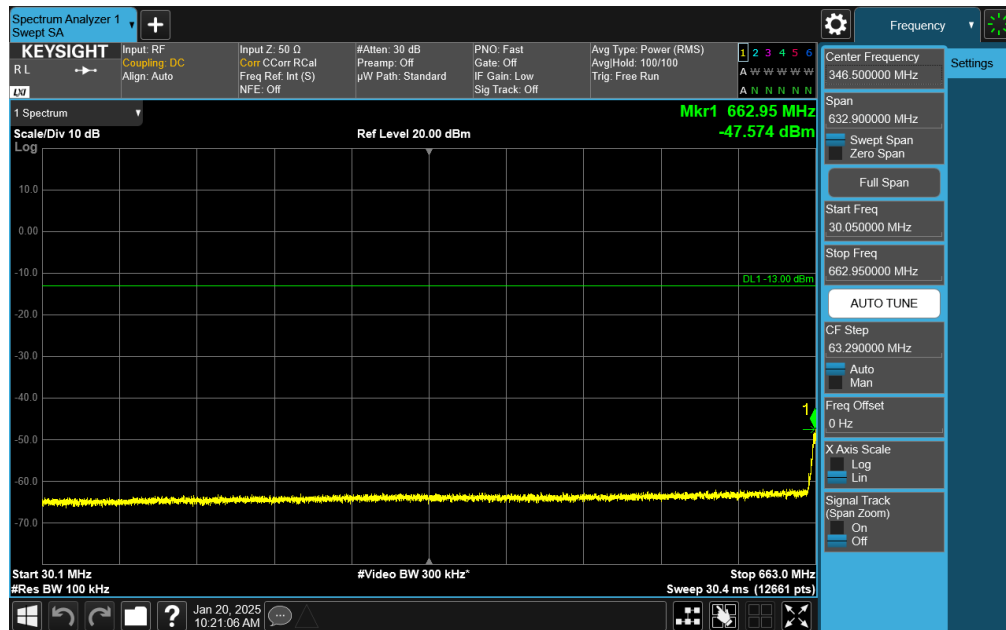


Plot 7-120. Conducted Spurious Plot (NR Band n66 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

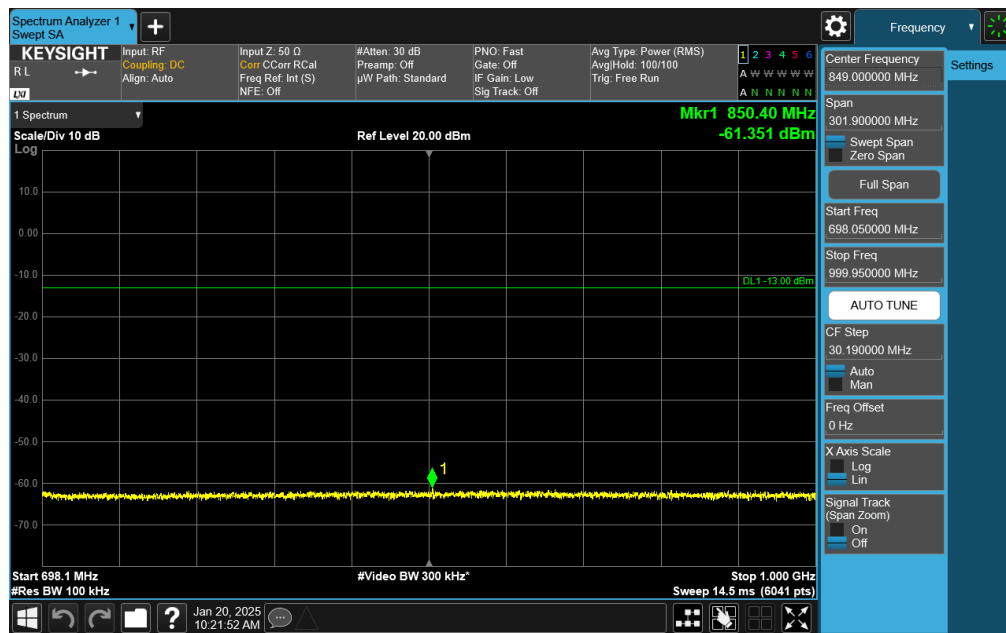
FCC ID: BCG-A3281	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 80 of 203




## NR Band n71



Plot 7-121. Conducted Spurious Plot (NR Band n71 -20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

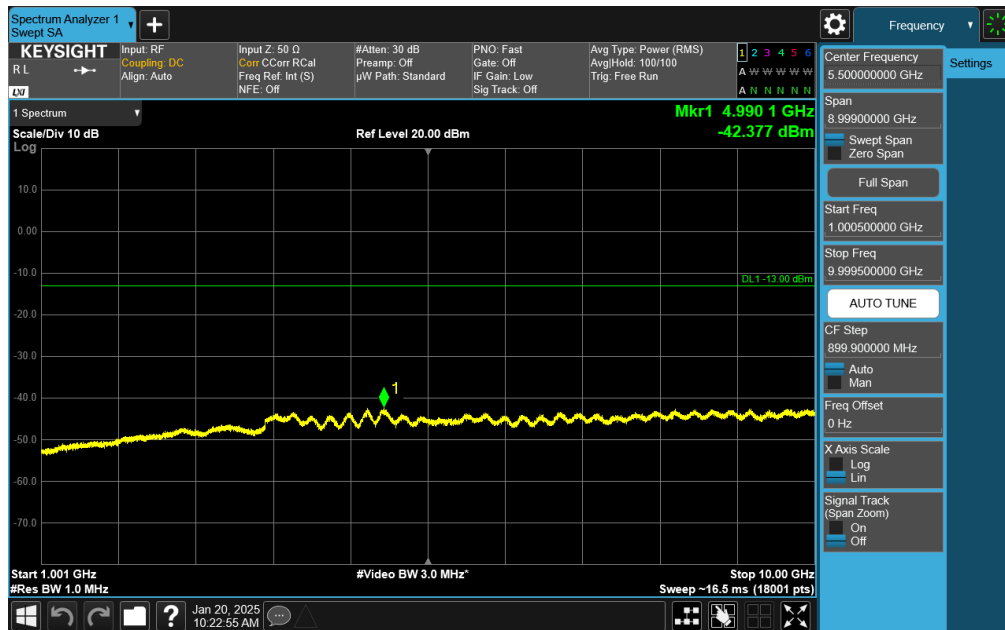


Plot 7-122. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

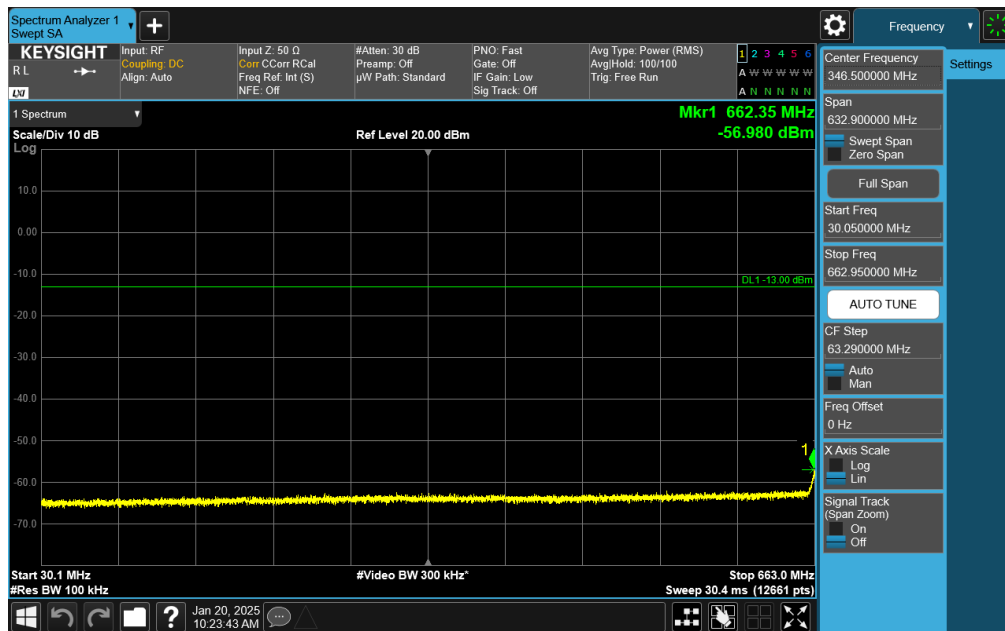
FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 81 of 203

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Plot 7-123. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

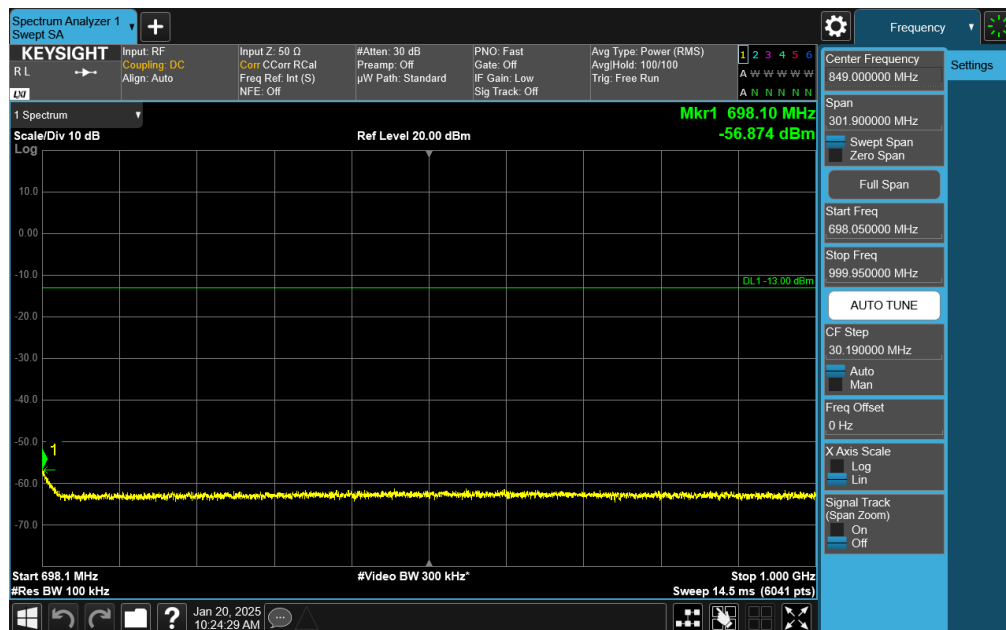


Plot 7-124. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

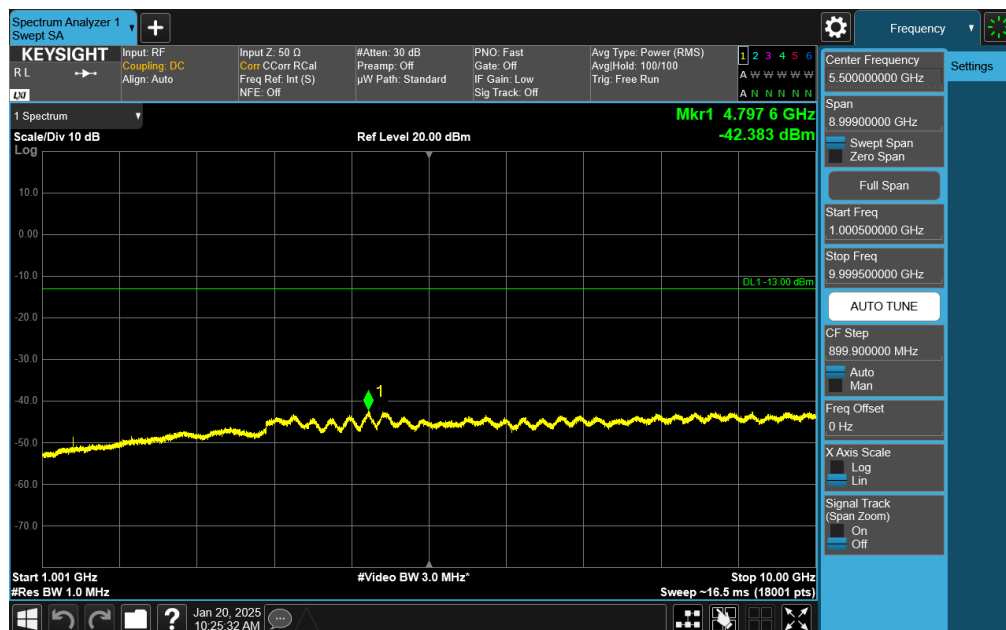
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 82 of 203

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Plot 7-125. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

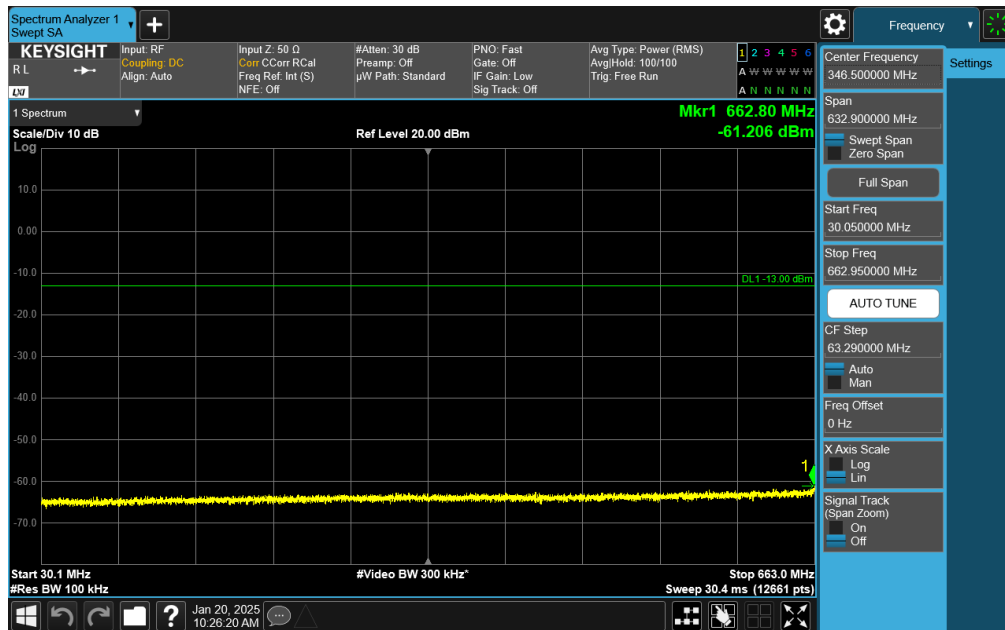


Plot 7-126. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

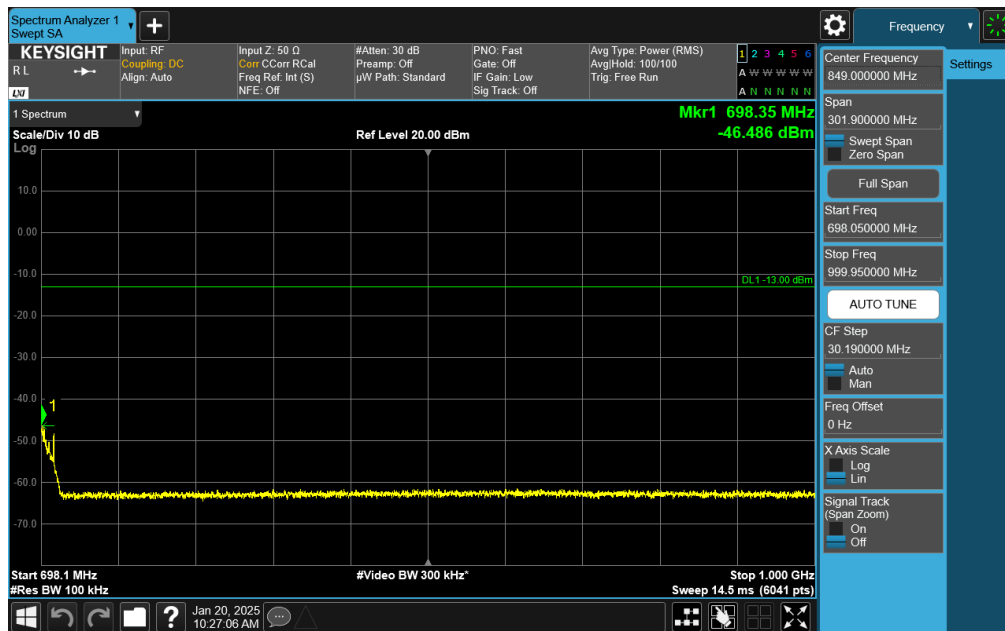
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 83 of 203

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Plot 7-127. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

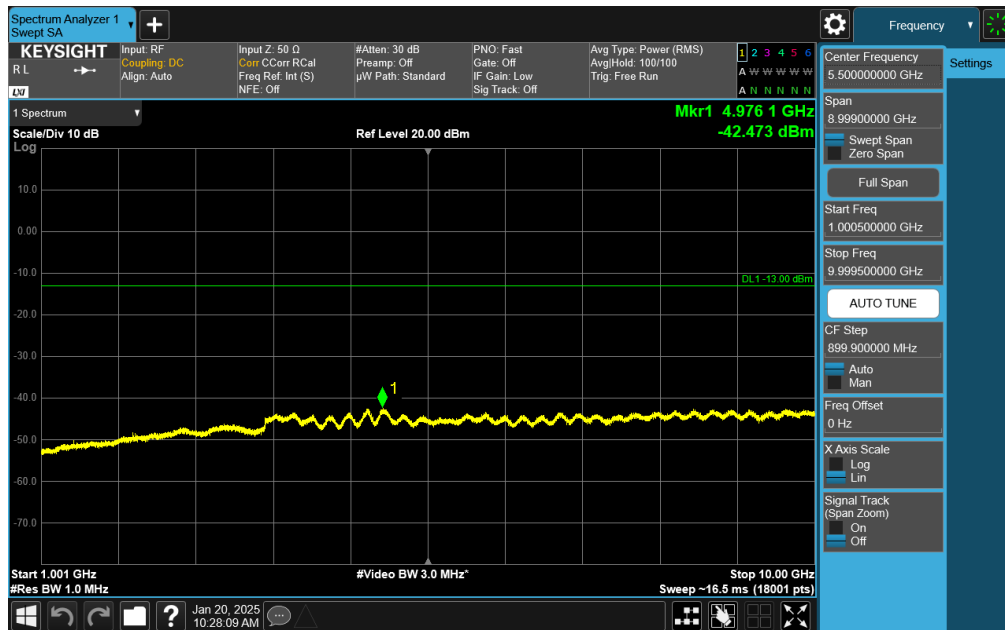


Plot 7-128. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 3.7 - High Channel)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 84 of 203

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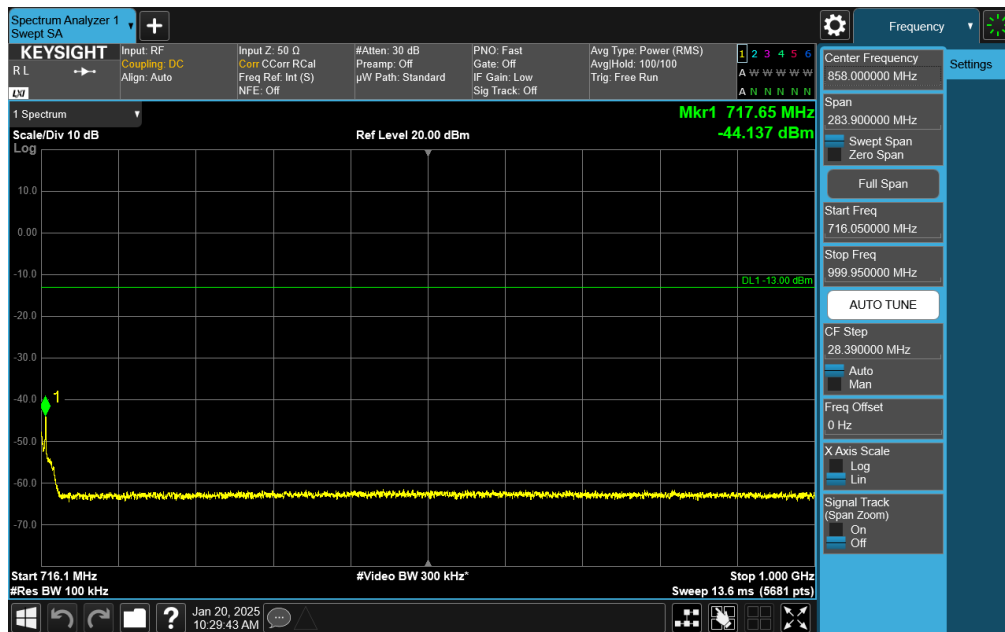
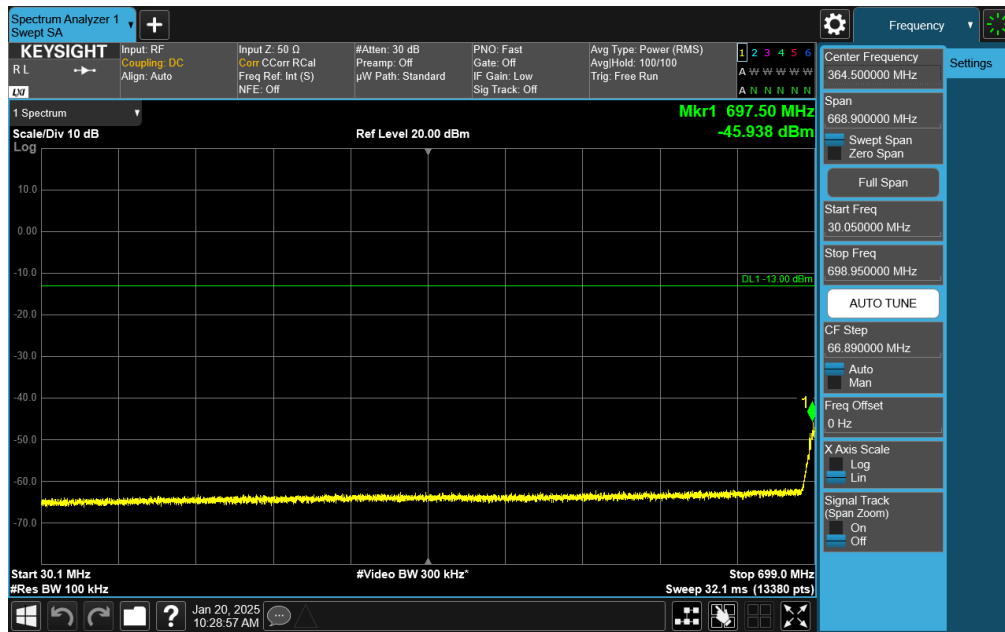
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Plot 7-129. Conducted Spurious Plot (NR Band n71 - 20.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	<div><div>element</div><div>PART 27 MEASUREMENT REPORT</div></div>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 85 of 203

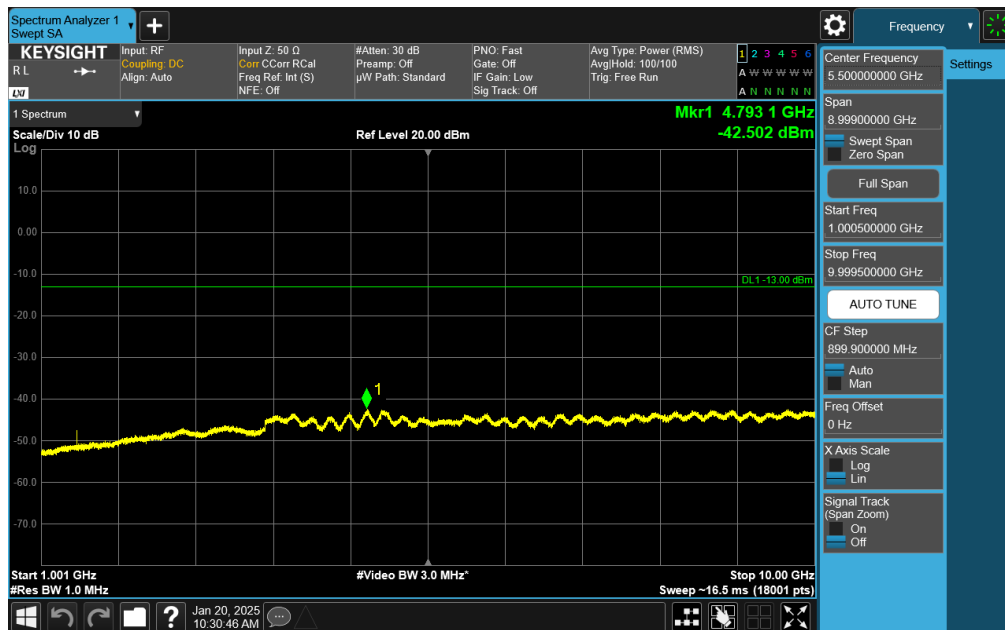
## NR Band n12



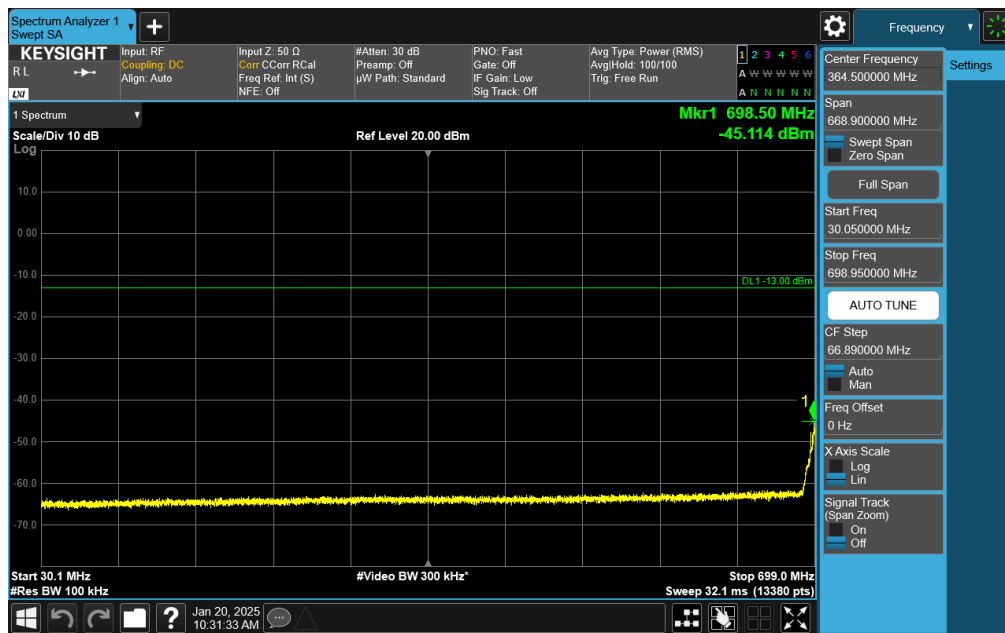
FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 86 of 203

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Plot 7-132. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Low Channel)

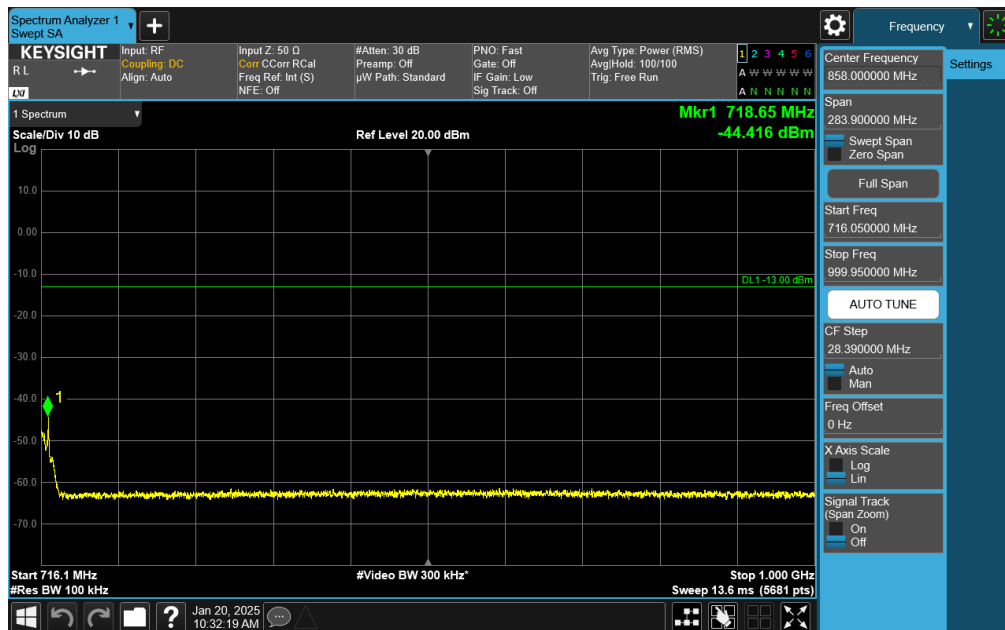


Plot 7-133. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

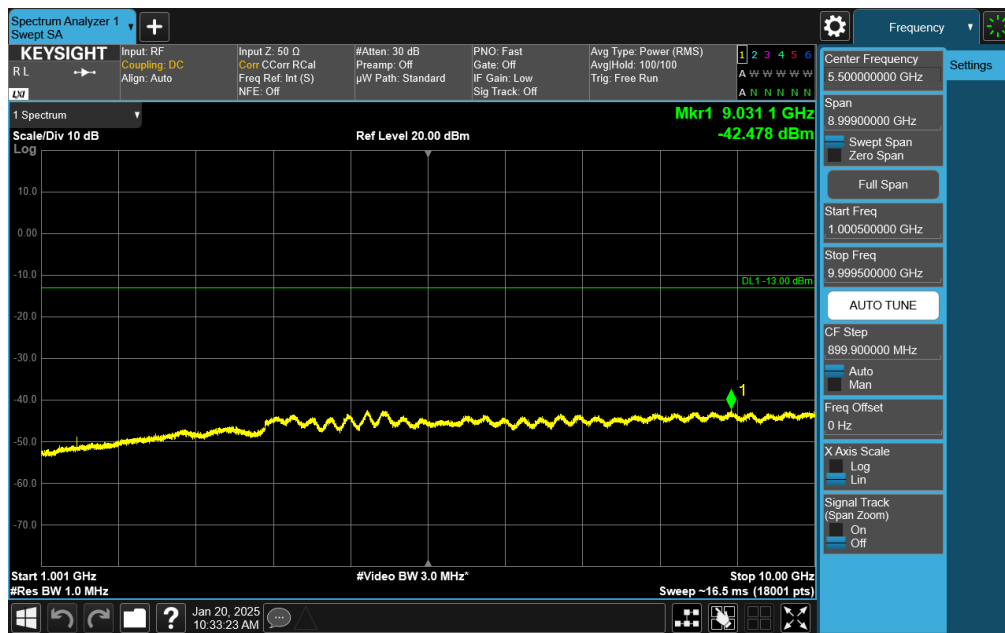
FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 87 of 203

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Plot 7-134. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)



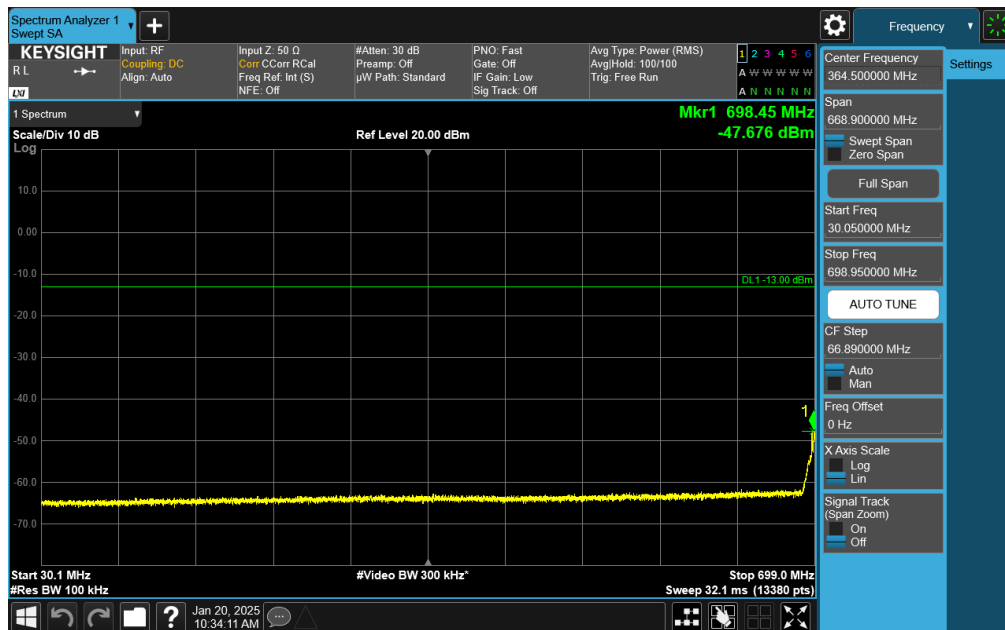
Plot 7-135. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 88 of 203

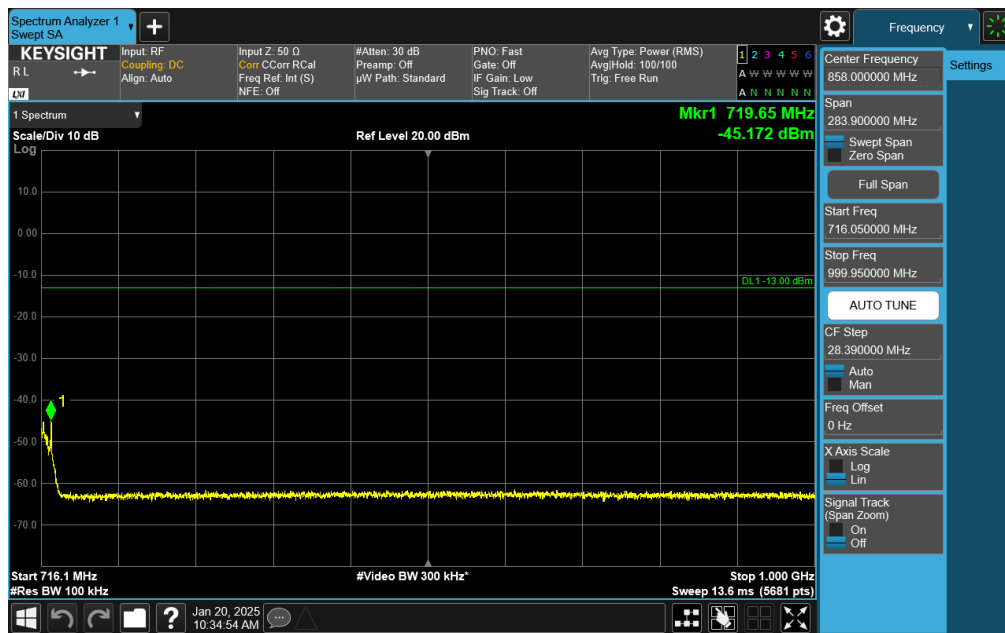
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Plot 7-136. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

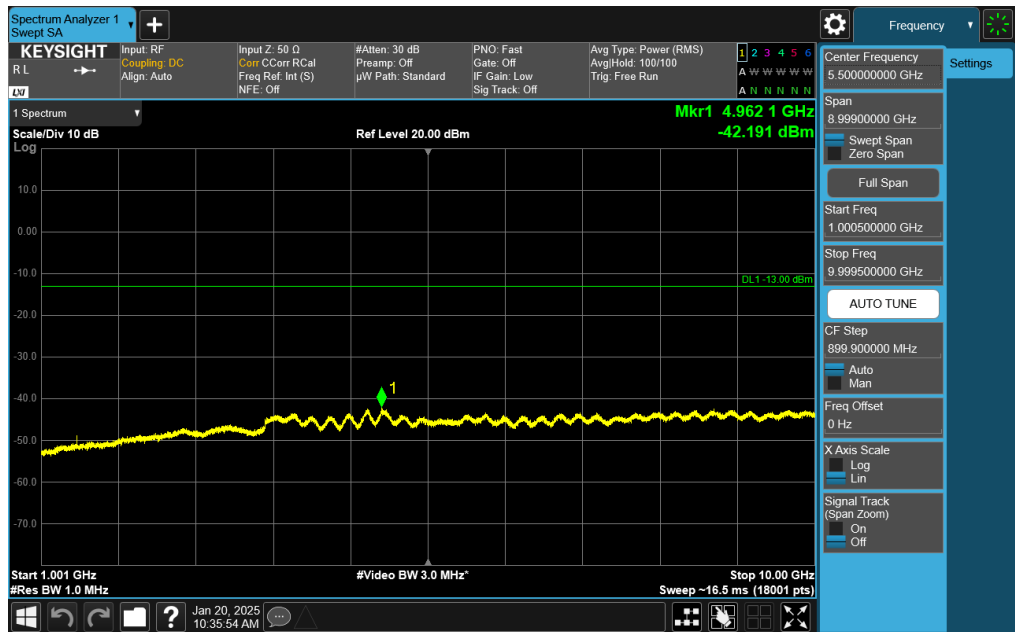


Plot 7-137. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 89 of 203

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Plot 7-138. Conducted Spurious Plot (NR Band n12 - 15.0MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: BCG-A3281	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270029-05.BCG	Test Dates: 01/17/2025 - 07/14/2025	EUT Type: Watch	Page 90 of 203

## 7.4 Band Edge Emissions at Antenna Terminal

\$2.1051, \$27.53

### 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 were investigated and the worst case configuration results are reported in this section.

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

### Test Procedure Used

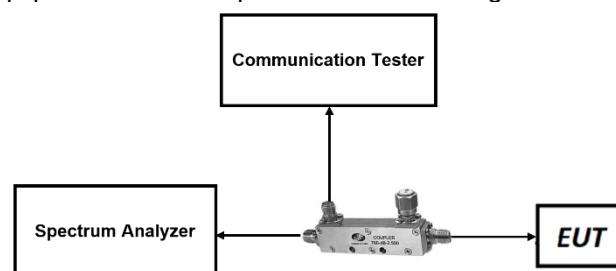
KDB 971168 D01 v03r01 – Section 6.0

### Test Settings

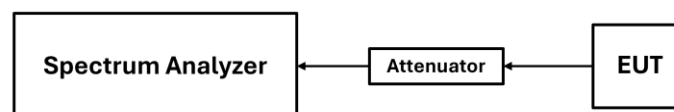
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq 1\%$  of the emission bandwidth
4. VBW  $\geq 3 \times$  RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times$  Span/RBW
7. Trace mode = trace average 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 7-5. LTE Test Instrument & Measurement Setup**




**Figure 7-6. FR1 Test Instrument & Measurement Setup**

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## Test Notes

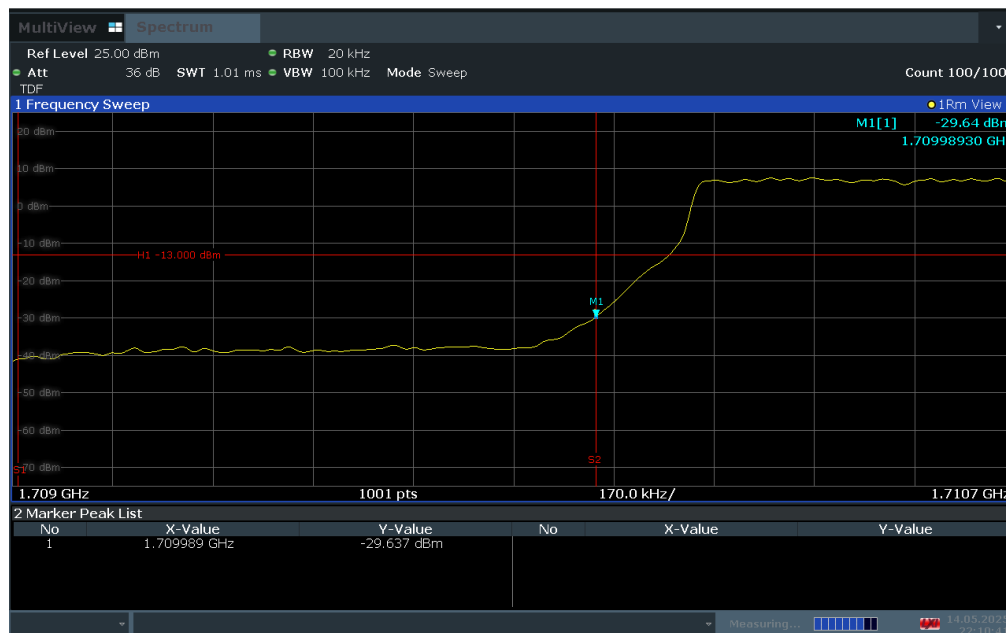
1. Per 27.53(h) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission 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 emission are attenuated at least 26 dB below the transmitter power.
2. Per 27.53(g) for operations in the 663 - 698 MHz and 698 – 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
4. For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is  $65 + 10 \log_{10}(P) = -35\text{dBm}$  in a 6.25kHz bandwidth.
5. 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.

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## LTE Band 66

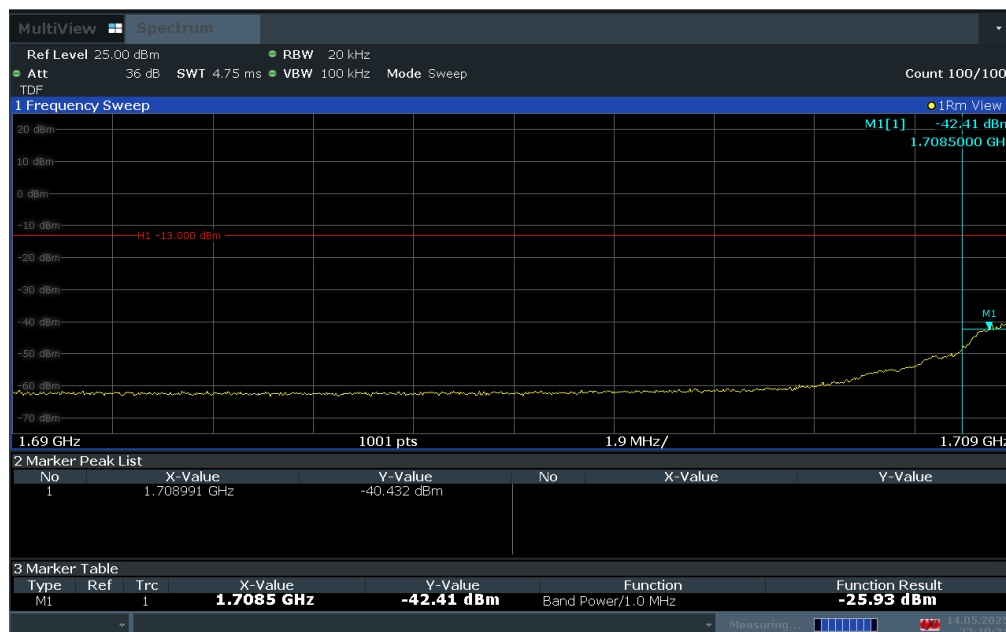
Peak



22:10:41 14.05.2025


Plot 7-139. Lower Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

Peak



22:10:25 14.05.2025

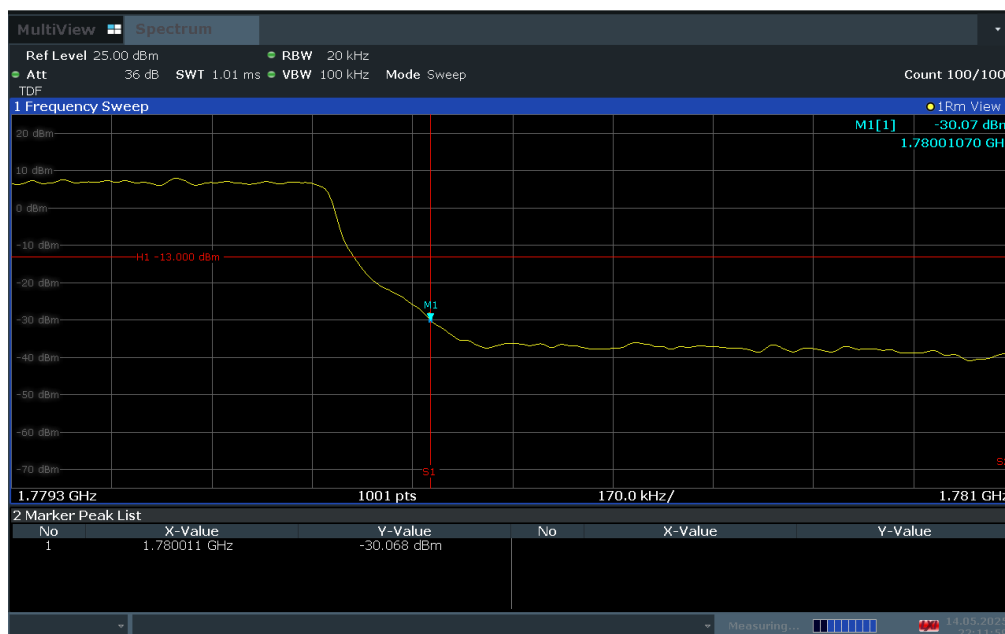
Plot 7-140. Lower Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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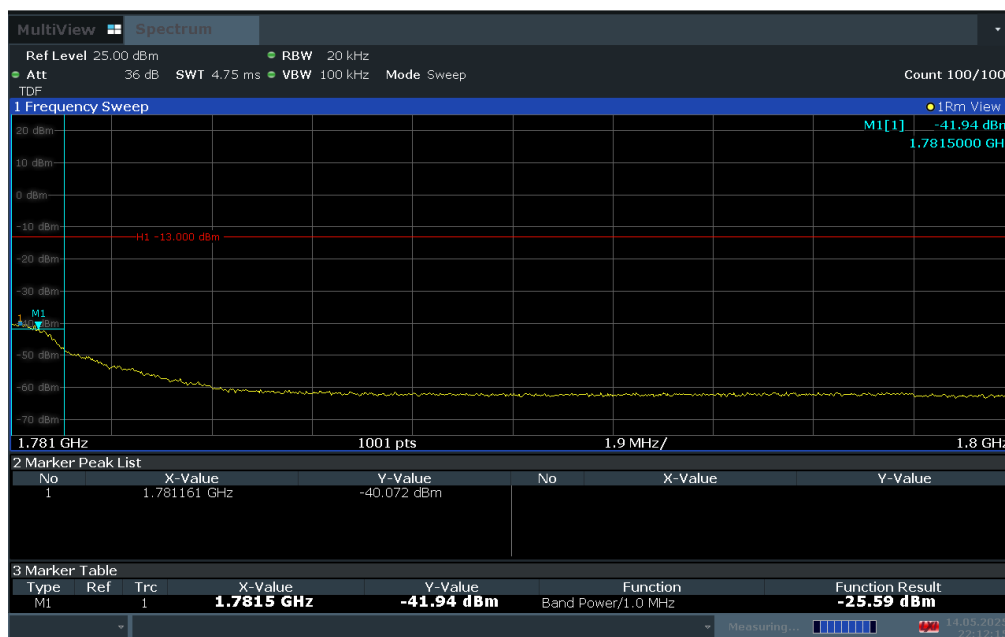
Peak



22:12:00 14.05.2025


Plot 7-141. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

Peak



22:12:16 14.05.2025

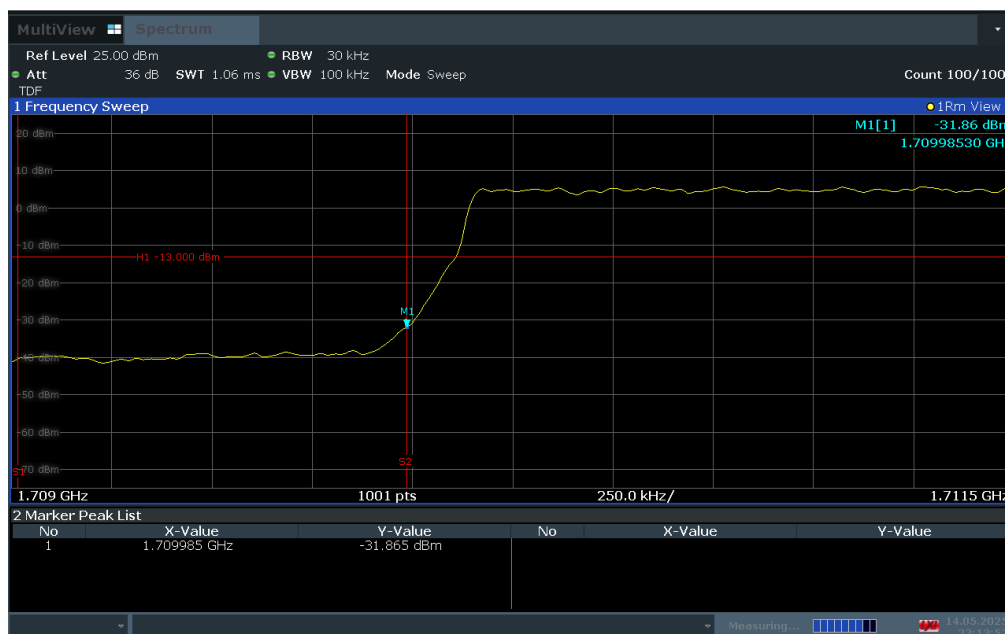
Plot 7-142. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

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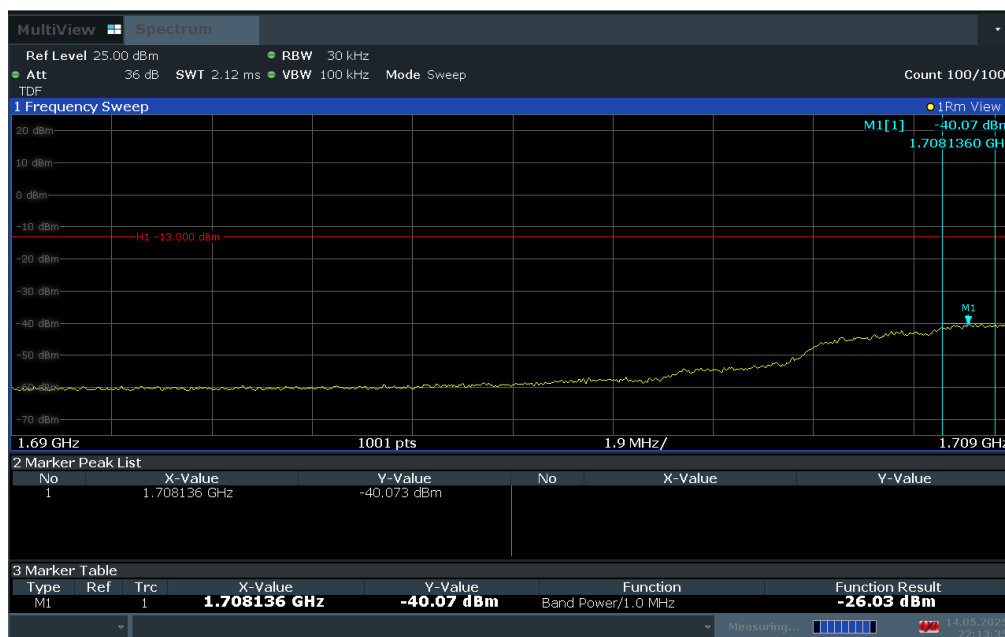
Peak



22:13:53 14.05.2025


Plot 7-143. Lower Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

Peak



22:13:36 14.05.2025

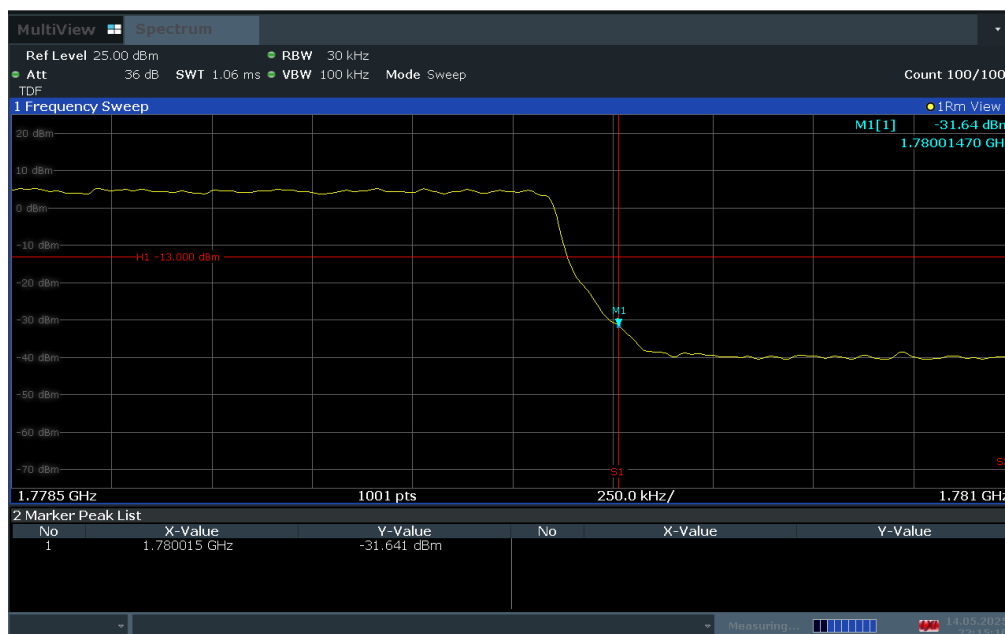
Plot 7-144. Lower Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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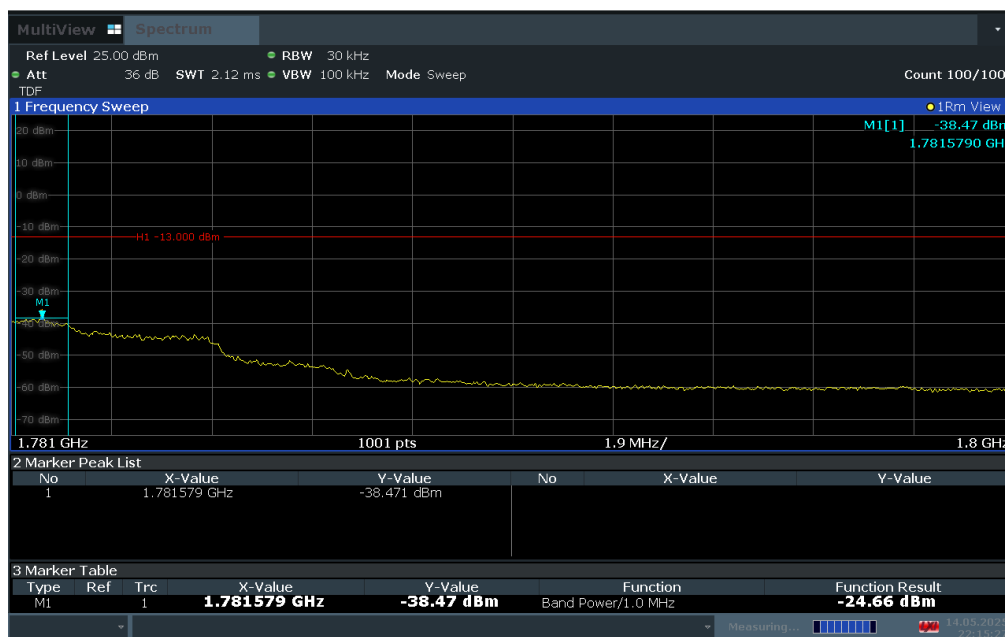
Peak



22:15:10 14.05.2025


Plot 7-145. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

Peak



22:15:27 14.05.2025

Plot 7-146. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

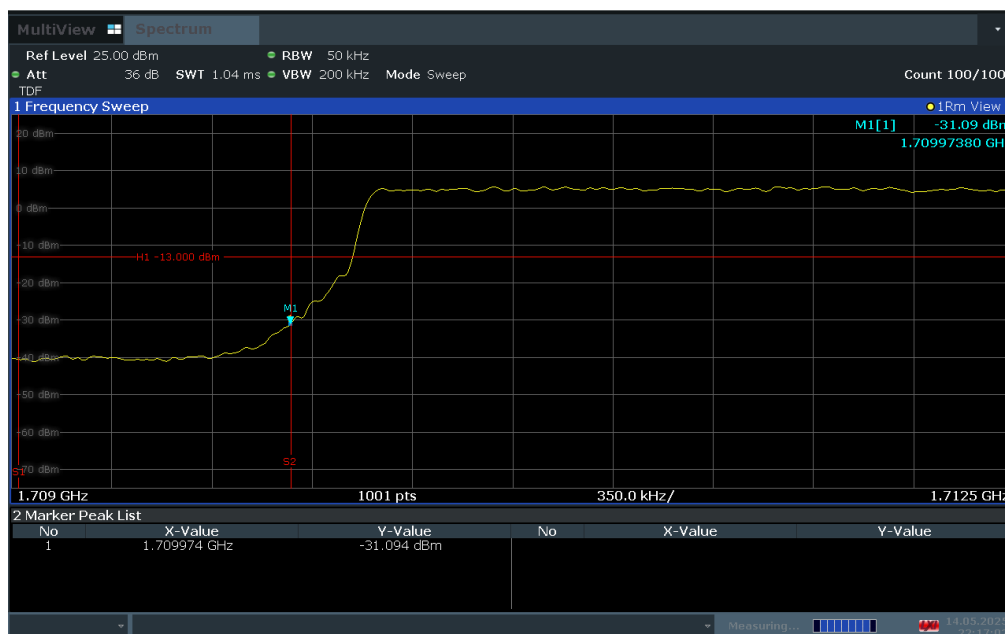
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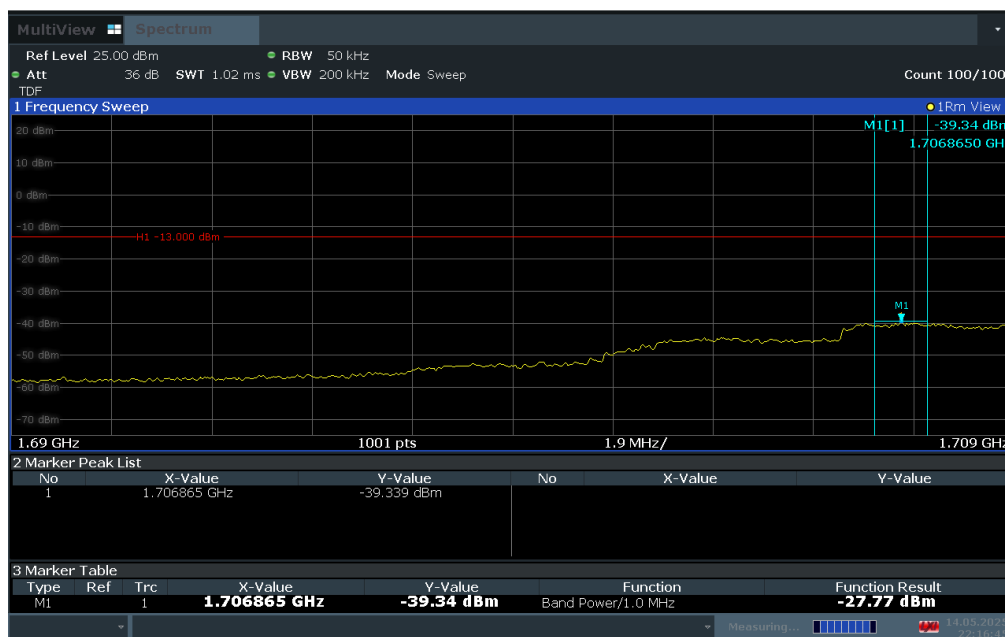
Peak



22:17:02 14.05.2025


Plot 7-147. Lower Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

Peak



22:16:45 14.05.2025

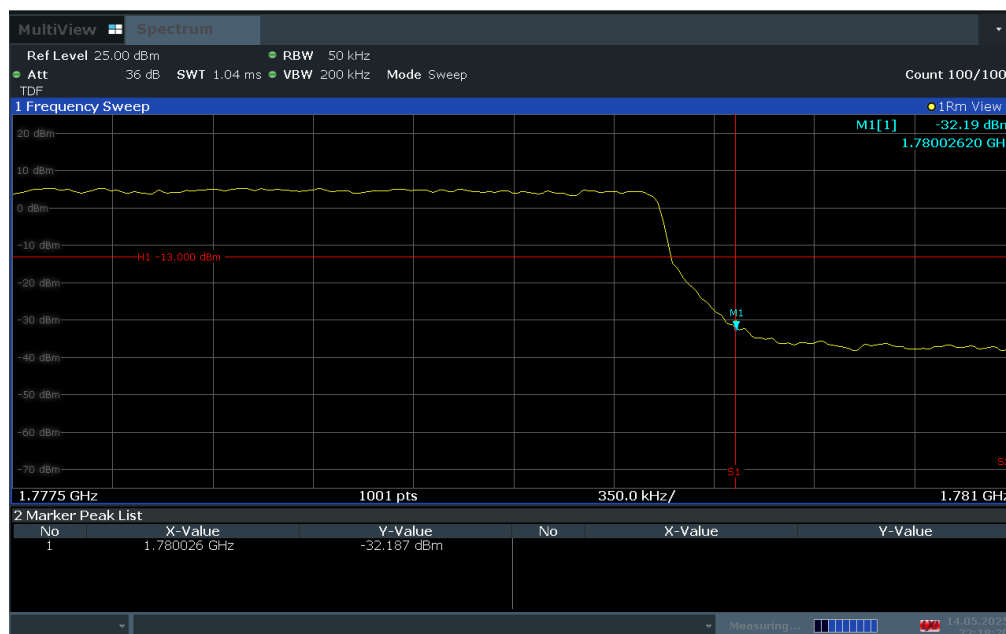
Plot 7-148. Lower Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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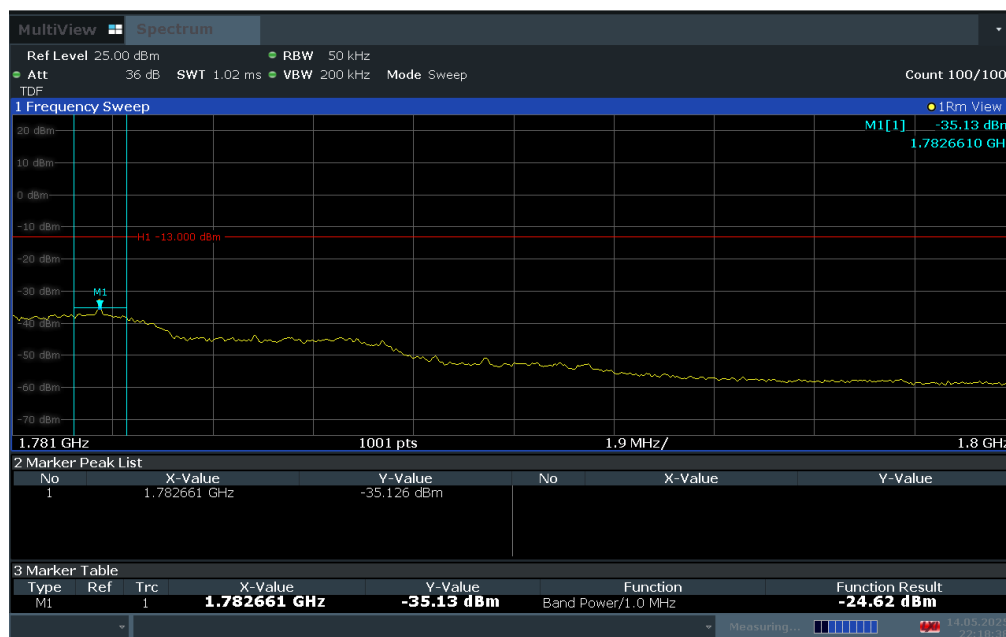
Peak



22:18:21 14.05.2025


Plot 7-149. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

Peak



22:18:38 14.05.2025

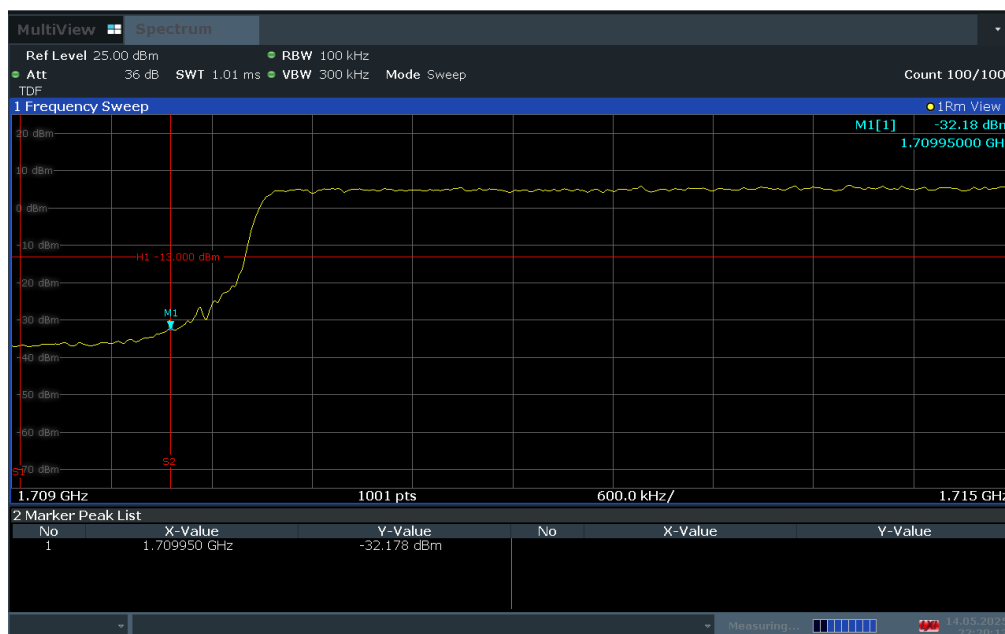
Plot 7-150. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

FCC ID: BCG-A3281	 <b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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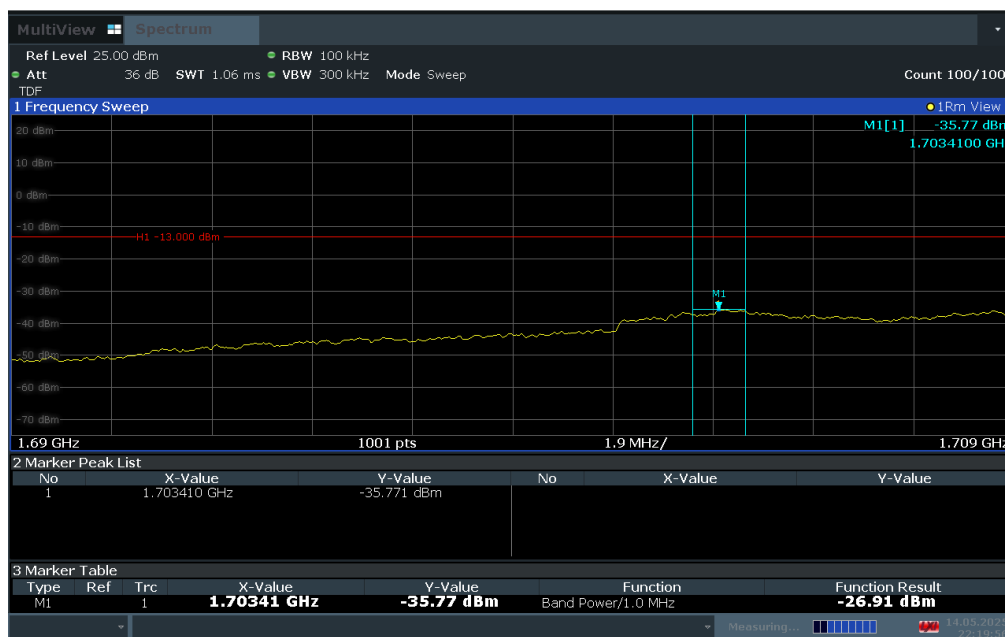
Peak



22:20:14 14.05.2025


**Plot 7-151. Lower Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)**

Peak



22:19:56 14.05.2025

**Plot 7-152. Lower Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)**

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