

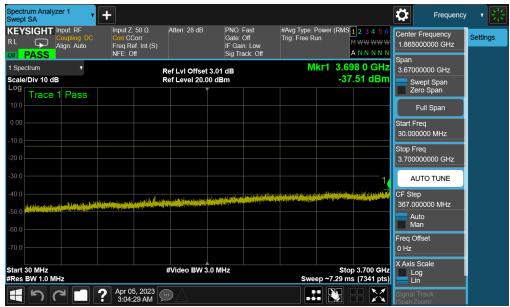
Plot 7-131. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 2T4R))



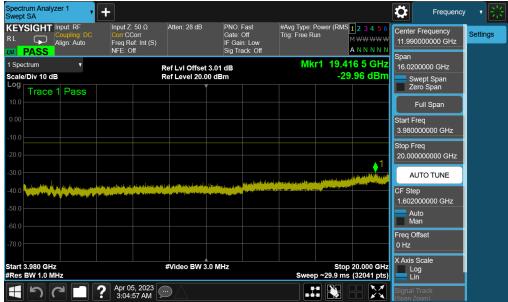
Plot 7-132. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 2T4R))

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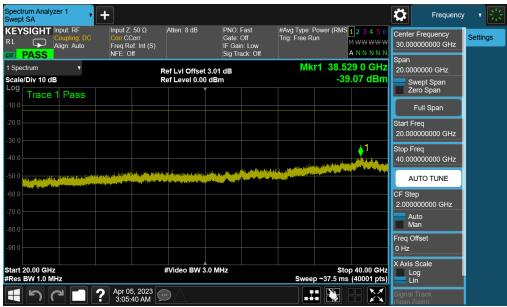
Plot 7-133. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - 3rd-LMHB (SRS 2T4R))



Plot 7-134. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - 3rd-LMHB (SRS 2T4R))

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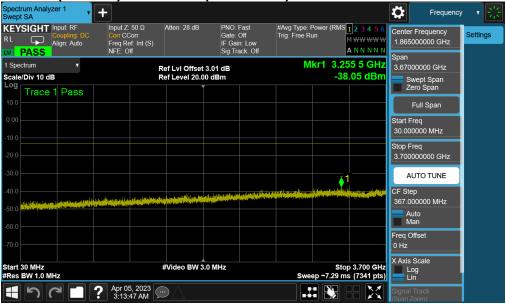


Plot 7-135. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - 3rd-LMHB (SRS 2T4R))

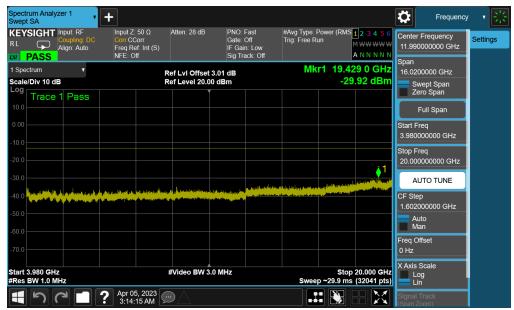
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NR Band n77 PC3 (C-band) - 4th-LMH (SRS 2T4R)



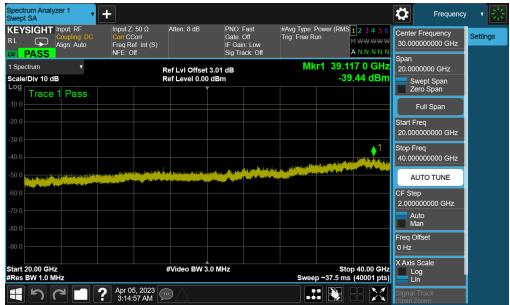
Plot 7-136. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Low Channel - 4th-MHB (SRS 2T4R))



Plot 7-137. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Low Channel - 4th-MHB (SRS 2T4R))

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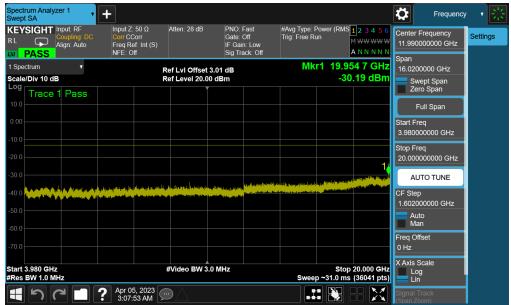
Plot 7-138. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Low Channel - 4th-MHB (SRS 2T4R))



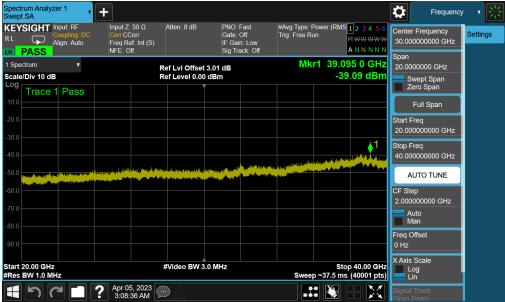
Plot 7-139. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 2T4R))

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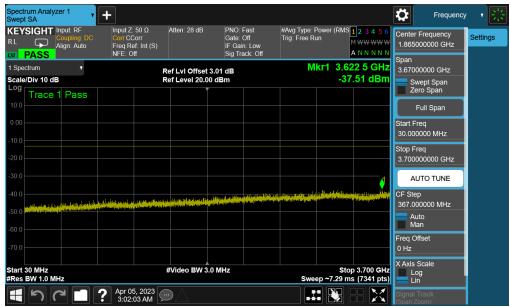
Plot 7-140. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 2T4R))



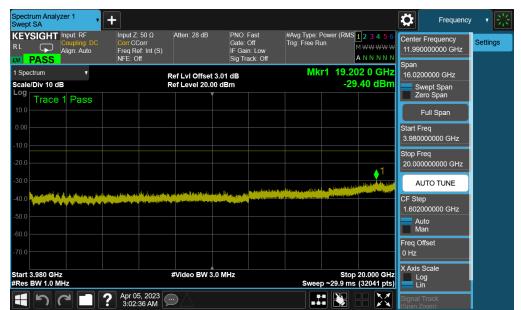
Plot 7-141. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 2T4R))

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Plot 7-142. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - 4th-MHB (SRS 2T4R))



Plot 7-143. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - 4th-MHB (SRS 2T4R))

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Plot 7-144. Conducted Spurious Plot (NR Band n77 PC3 (C-band) - 100MHz QPSK - 1RB - High Channel - 4th-MHB (SRS 2T4R))

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NR Band n77 PC2 (DoD) - Main1



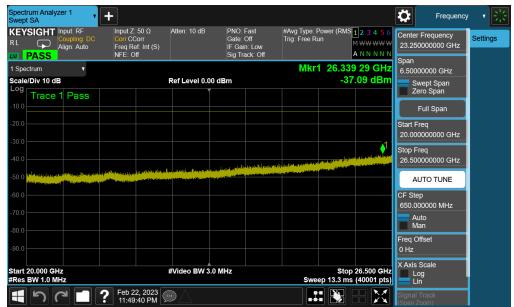
Plot 7-145. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Main1)



Plot 7-146. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Main1)

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Plot 7-147. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Main1)

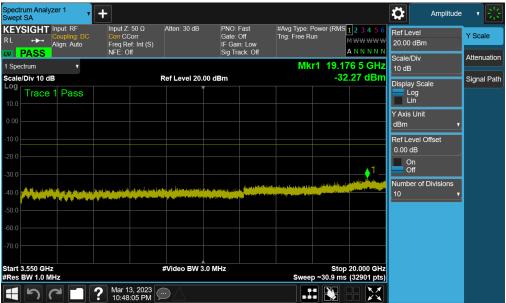
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 PC2 (DoD) - Sub-UHB



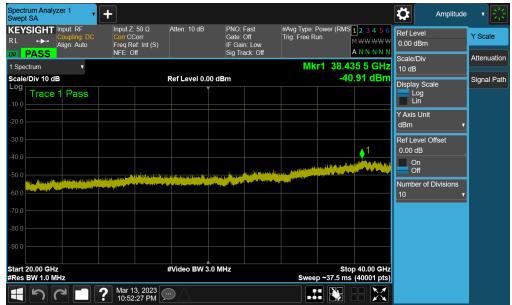
Plot 7-148. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB)



Plot 7-149. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB)

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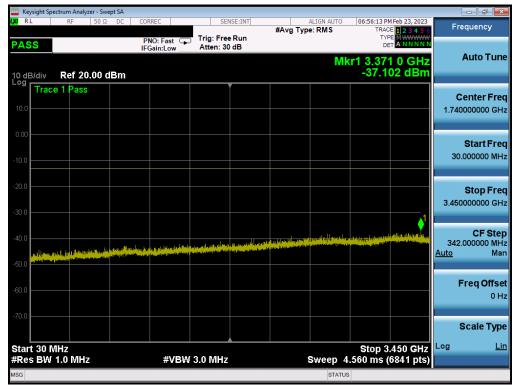


Plot 7-150. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB)

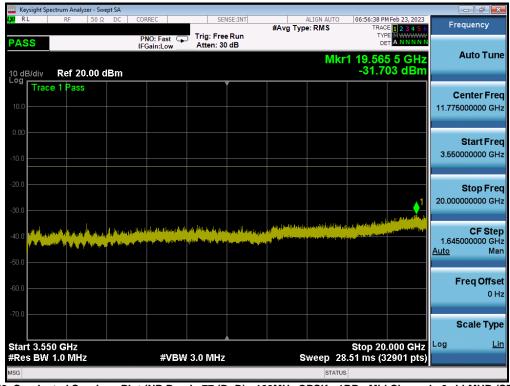
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NR Band n77 PC2 (DoD) – 3rd-LMHB (SRS 1T4R)



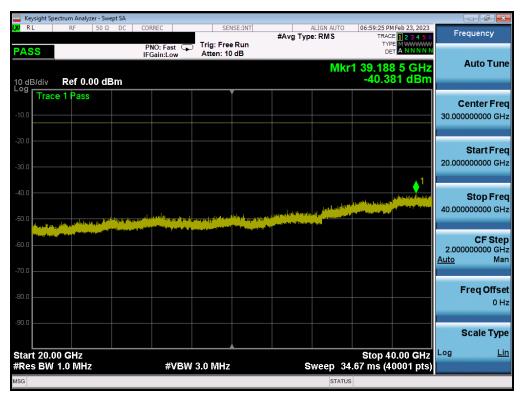
Plot 7-151. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 1T4R))



Plot 7-152. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 1T4R))

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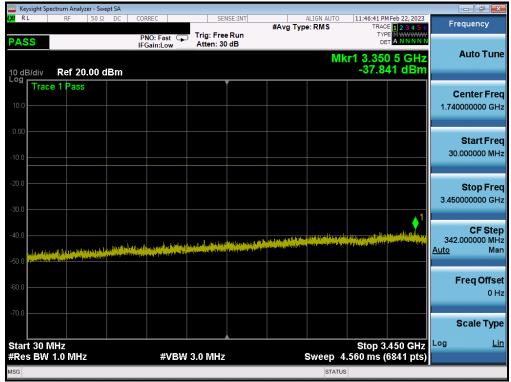


Plot 7-153. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 1T4R))

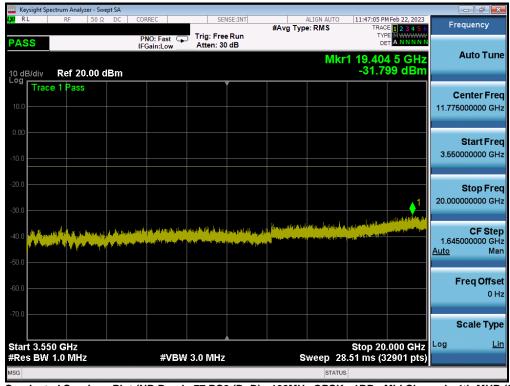
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NR Band n77 PC2 (DoD) - 4th-MHB (SRS 1T4R)



Plot 7-154. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 1T4R))



Plot 7-155. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 1T4R))

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Plot 7-156. Conducted Spurious Plot (NR Band n77 PC2 (DoD) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 1T4R))

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NR Band n77 PC2 (C-band) - Main1



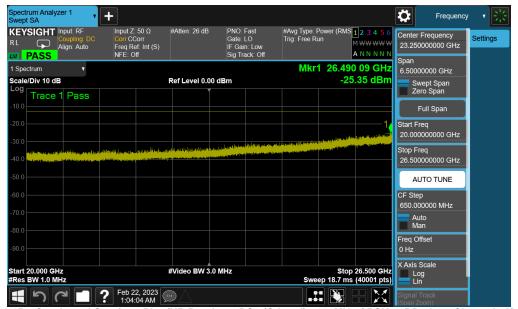
Plot 7-157. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - Main1)



Plot 7-158. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - Main1)

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Plot 7-159. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - Main1)



Plot 7-160. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Main1)

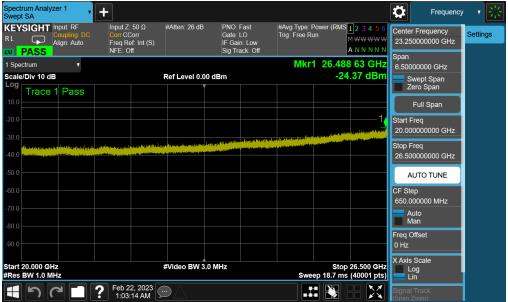
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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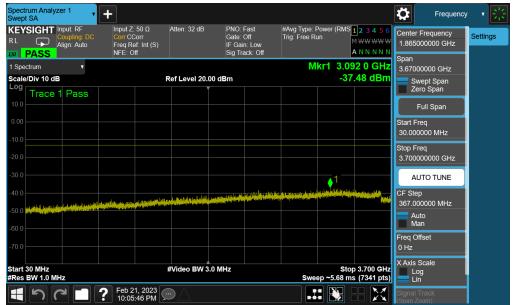
Plot 7-161. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Main1)



Plot 7-162. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Main1)

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Plot 7-163. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - Main1)



Plot 7-164. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - Main1)

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Plot 7-165. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - Main1)

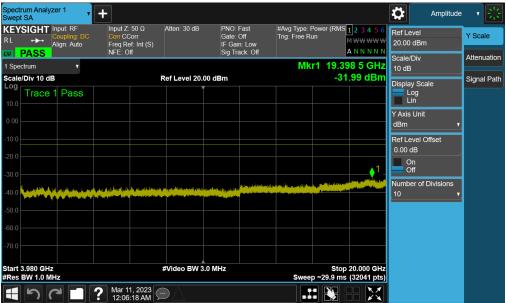
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NR Band n77 PC2 (C-band) - Sub-UHB



Plot 7-166. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - Sub-UHB)



Plot 7-167. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - Sub-UHB)

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Plot 7-168. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - Sub-UHB)

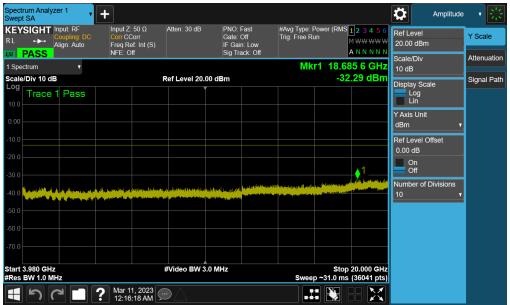


Plot 7-169. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB)

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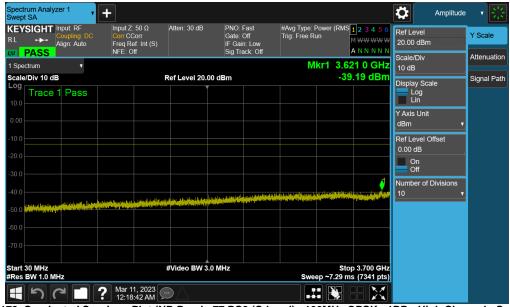
Plot 7-170. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB)



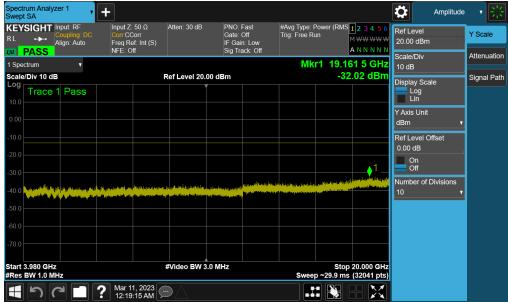
Plot 7-171. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - Sub-UHB)

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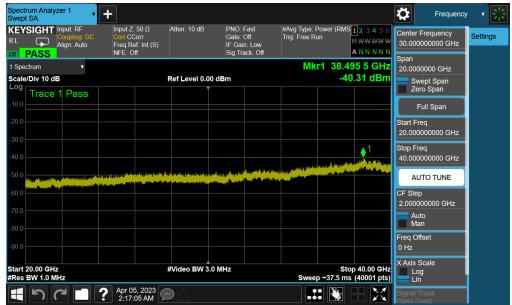
Plot 7-172. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - Sub-UHB)



Plot 7-173. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - Sub-UHB)

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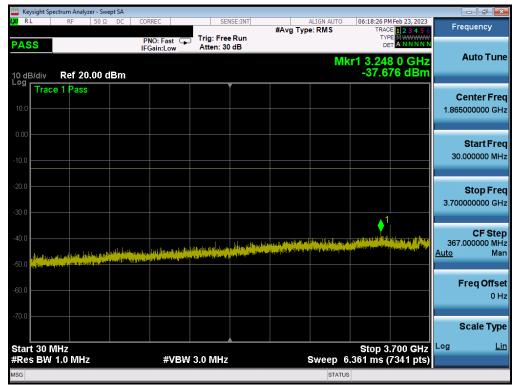


Plot 7-174. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - Sub-UHB)

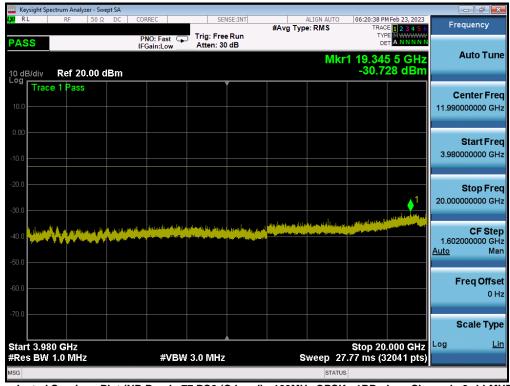
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NR Band n77 PC2 (C-band) - 3rd-LMHB (SRS 1T4R)



Plot 7-175. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - 3rd-LMHB (SRS 1T4R))



Plot 7-176. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - 3rd-LMHB (SRS 1T4R))

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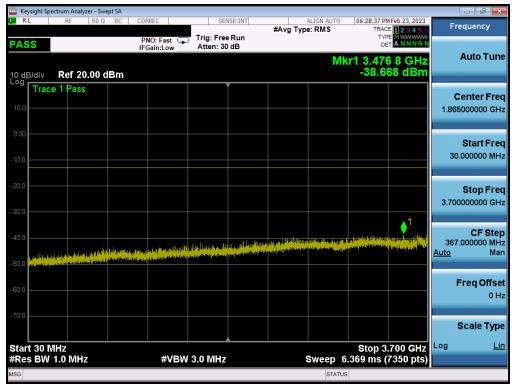
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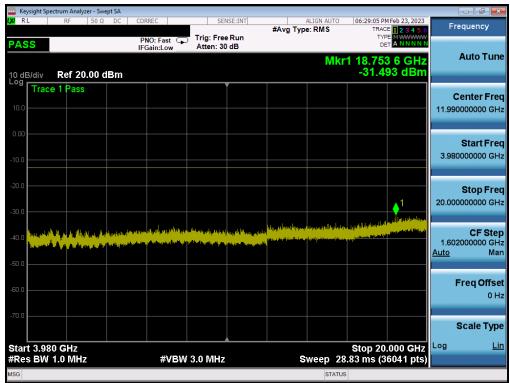
Plot 7-177. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - 3rd-LMHB (SRS 1T4R))



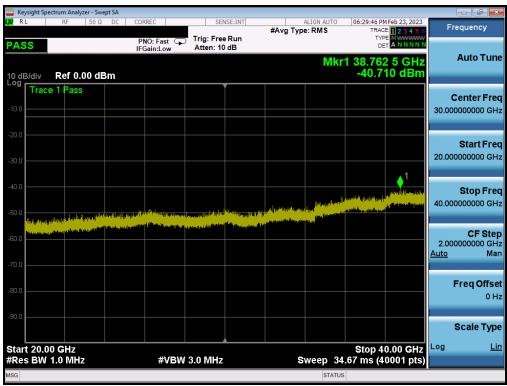
Plot 7-178. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 1T4R))

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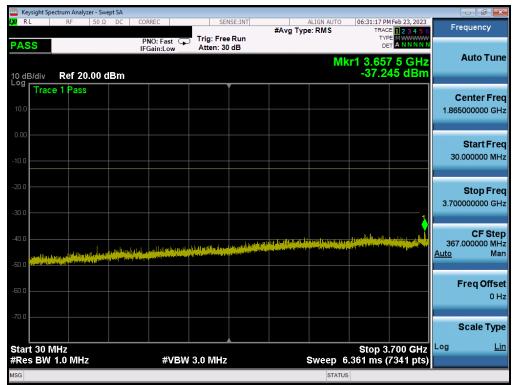
Plot 7-179. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 1T4R))



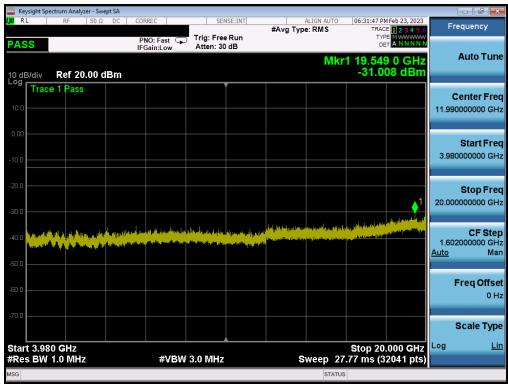
Plot 7-180. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 3rd-LMHB (SRS 1T4R))

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Plot 7-181. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - 3rd-LMHB (SRS 1T4R))



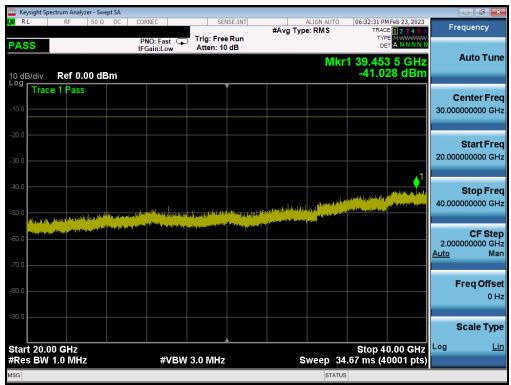
Plot 7-182. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - 3rd-LMHB (SRS 1T4R))

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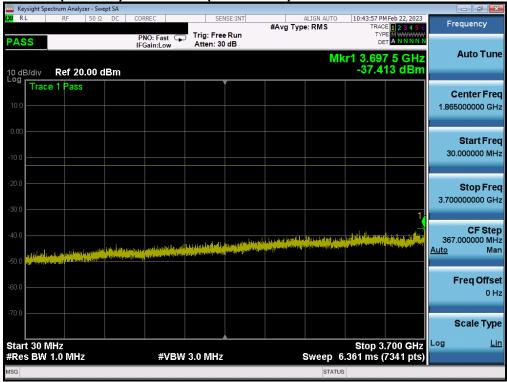
Plot 7-183. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - 3rd-LMHB (SRS 1T4R))

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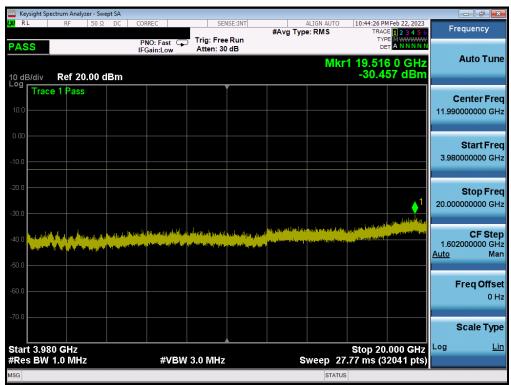
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NR Band n77 PC2 (C-band) - 4th-LMH (SRS 1T4R)



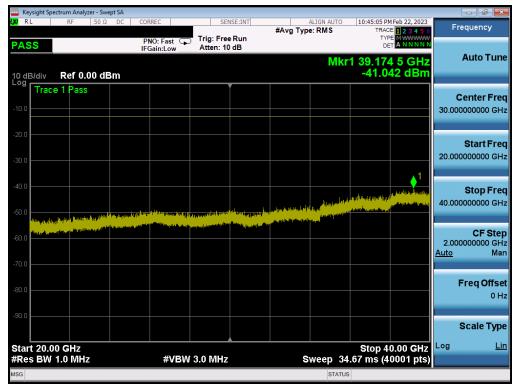
Plot 7-184. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - 4th-MHB (SRS 1T4R))



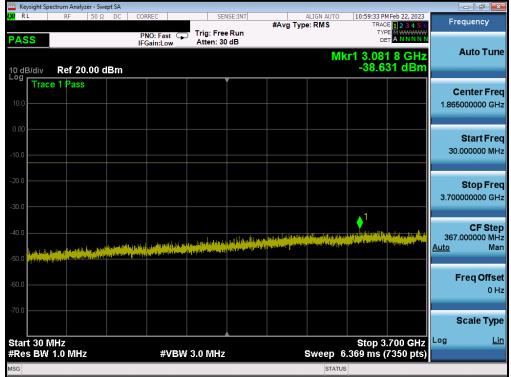
Plot 7-185. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - 4th-MHB (SRS 1T4R))

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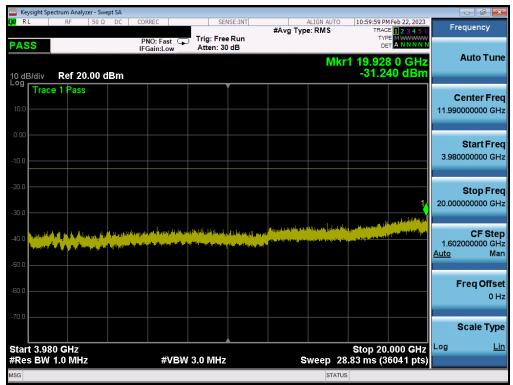
Plot 7-186. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Low Channel - 4th-MHB (SRS 1T4R))



Plot 7-187. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 1T4R))

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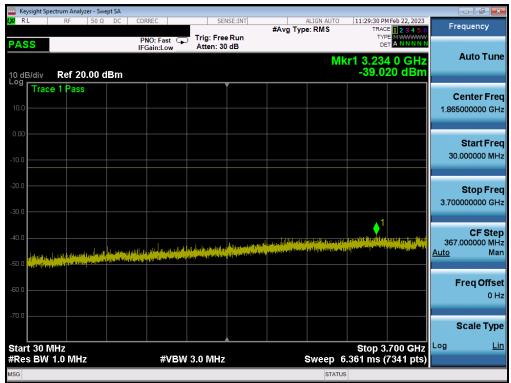
Plot 7-188. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 1T4R))



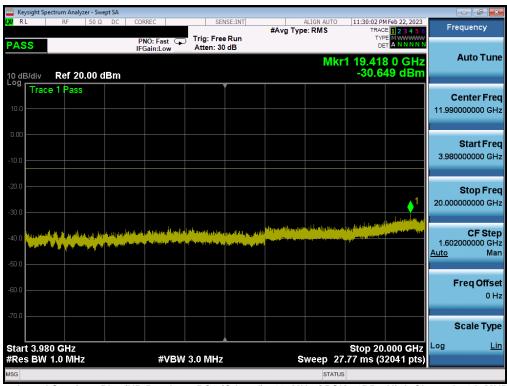
Plot 7-189. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - Mid Channel - 4th-MHB (SRS 1T4R))

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Plot 7-190. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - 4th-MHB (SRS 1T4R))

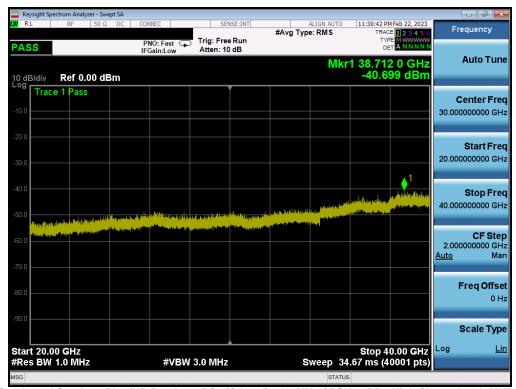


Plot 7-191. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - 4th-MHB (SRS 1T4R))

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Plot 7-192. Conducted Spurious Plot (NR Band n77 PC2 (C-band) - 100MHz QPSK - 1RB - High Channel - 4th-MHB (SRS 1T4R))

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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 worstcase configuration results are reported in this section.

For operations in the 3700 - 3980MHz band and the 3450 - 3550MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/MHz.

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 to capture all out of band emissions near the band edge.
- 3. RBW > 1% of the emission bandwidth
- 4. $VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 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

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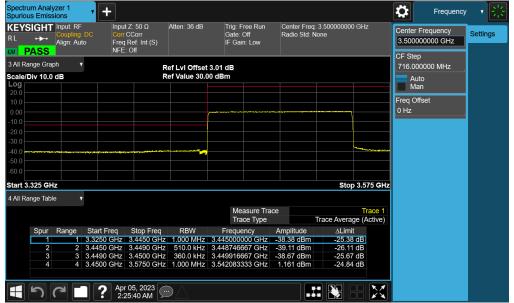
Test Notes

- 1. Per Part 27.53(I), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
- 2. Per Part 27.53(n), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
- 3. 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.
- 4. 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.
- In this section, the UL-MIMO NR band n77 (Main1+Sub-UHB) and SRS 2T4R NR band n77 (3rd-LMHB+4th-MHB) plots have a 3dB correction applied to the individual plots to address the MIMO requirements in ANSI C63.26.

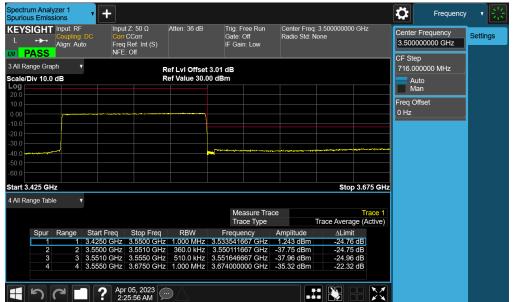
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NR Band n77 PC3 (DoD) - Main1 (UL-MIMO)



Plot 7-193. Lower ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Main1 (UL-MIMO))

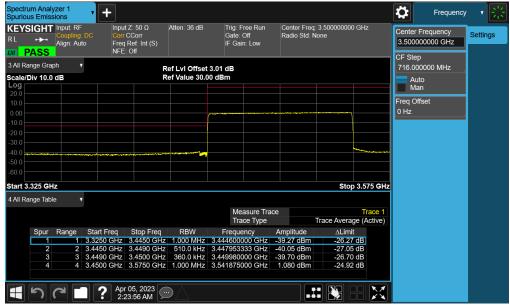


Plot 7-194. Upper ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Main1 (UL-MIMO))

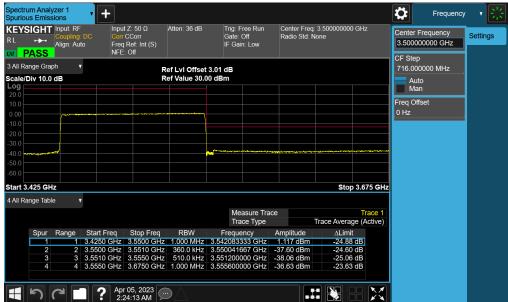
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NR Band n77 PC3 (DoD) - Sub-UHB (UL-MIMO)



Plot 7-195. Lower ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Sub-UHB (UL-MIMO))

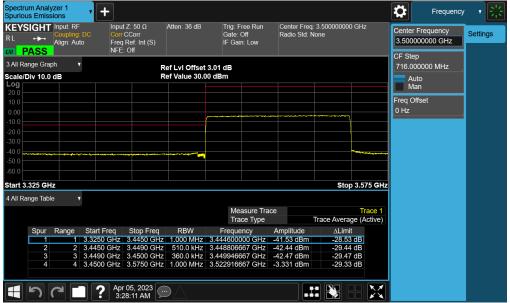


Plot 7-196. Upper ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Sub-UHB)

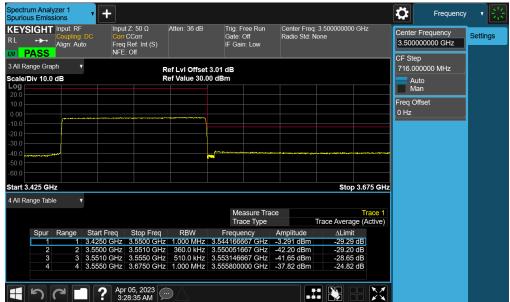
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NR Band n77 PC3 (DoD) - 3rd-LMHB (SRS 2T4R)



Plot 7-197. Lower ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - 3rd-LMHB (SRS 2T4R))

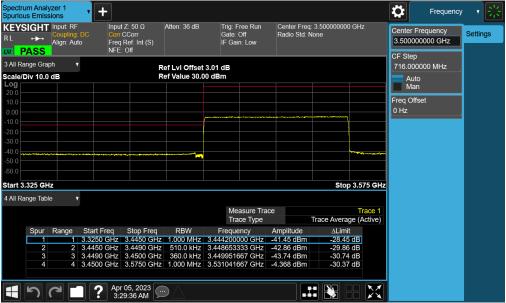


Plot 7-198. Upper ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - 3rd-LMHB (SRS 2T4R))

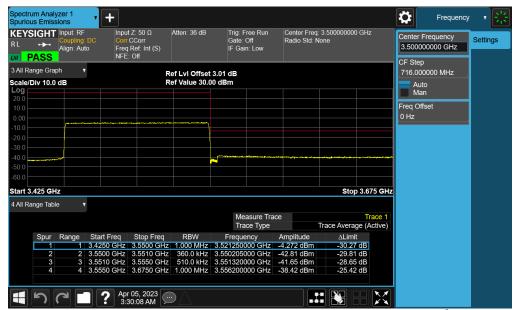
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NR Band n77 PC3 (DoD) - 4th-LMH (SRS 2T4R)



Plot 7-199. Lower ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - 4th-MHB (SRS 2T4R))



Plot 7-200. Upper ACP Plot (NR Band n77 PC3 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - 4th-MHB (SRS 2T4R))

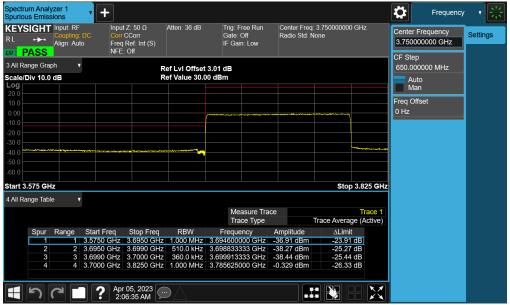
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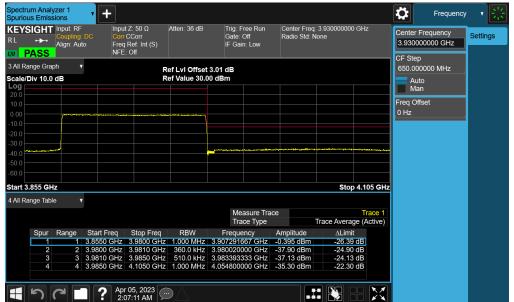
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NR Band n77 PC3 (C-band) - Main1 (UL-MIMO)



Plot 7-201. Lower ACP Plot (NR Band n77 PC3 (C-band) - 100MHz CP-OFDM-QPSK - Full RB - Main1 (UL-MIMO))



Plot 7-202. Upper ACP Plot (NR Band n77 PC3 (C-band) - 100MHz CP-OFDM-QPSK - Full RB - Main1 (UL-MIMO))

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