



Plot 7-107. Occupied Bandwidth Plot (NR Band n41 - 60MHz CP-OFDM QPSK - Full RB)



Plot 7-108. Occupied Bandwidth Plot (NR Band n41 - 60MHz CP-OFDM 16-QAM - Full RB)

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Plot 7-109. Occupied Bandwidth Plot (NR Band n41 - 60MHz CP-OFDM 64-QAM - Full RB)



Plot 7-110. Occupied Bandwidth Plot (NR Band n41 - 60MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-111. Occupied Bandwidth Plot (NR Band n41 - 50MHz π/2 BPSK - Full RB)



Plot 7-112. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM QPSK - Full RB)

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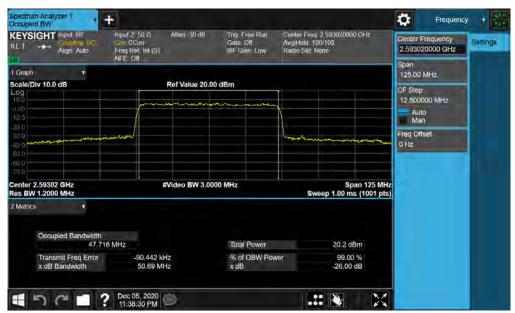
Plot 7-113. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM 16-QAM - Full RB)



Plot 7-114. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-115. Occupied Bandwidth Plot (NR Band n41 - 50MHz CP-OFDM 256-QAM - Full RB)



Plot 7-116. Occupied Bandwidth Plot (NR Band n41 - 40MHz π/2 BPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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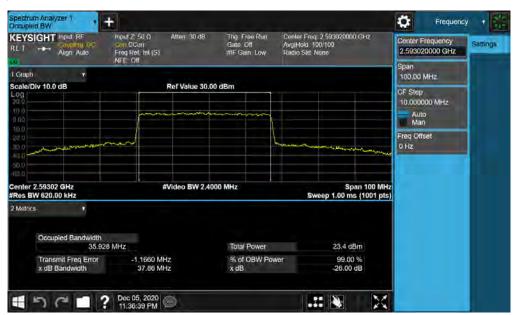
Plot 7-117. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM QPSK - Full RB)



Plot 7-118. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-119. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM 64-QAM - Full RB)



Plot 7-120. Occupied Bandwidth Plot (NR Band n41 - 40MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-121. Occupied Bandwidth Plot (NR Band n41 - 30MHz π/2 BPSK - Full RB)



Plot 7-122. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM QPSK - Full RB)

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Plot 7-123. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM 16-QAM - Full RB)



Plot 7-124. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-125. Occupied Bandwidth Plot (NR Band n41 - 30MHz CP-OFDM 256-QAM - Full RB)



Plot 7-126. Occupied Bandwidth Plot (NR Band n41 - 20MHz π/2 BPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-127. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM QPSK - Full RB)



Plot 7-128. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-129. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM 64-QAM - Full RB)



Plot 7-130. Occupied Bandwidth Plot (NR Band n41 - 20MHz CP-OFDM 256-QAM - Full RB)

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NR Band n77



Plot 7-131. Occupied Bandwidth Plot (NR Band n77 - 100MHz π/2 BPSK - Full RB)



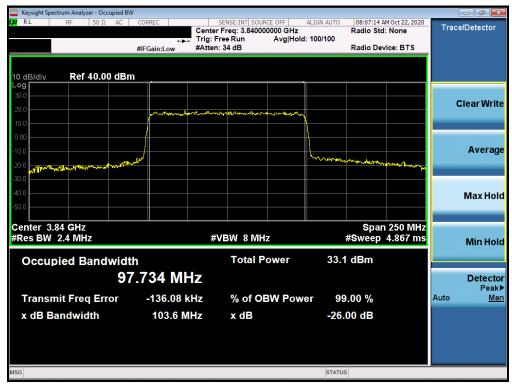
Plot 7-132. Occupied Bandwidth Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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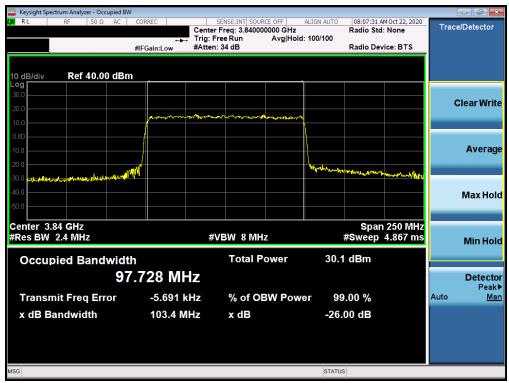
Plot 7-133. Occupied Bandwidth Plot (NR Band n77 - 100MHz CP-OFDM 16-QAM - Full RB)



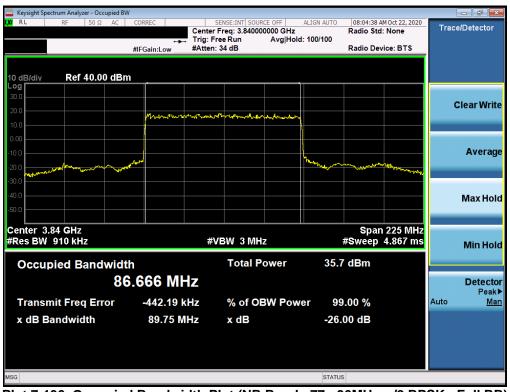
Plot 7-134. Occupied Bandwidth Plot (NR Band n77 - 100MHz CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-135. Occupied Bandwidth Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB)



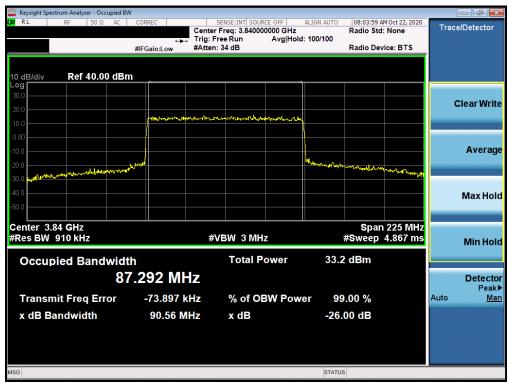
Plot 7-136. Occupied Bandwidth Plot (NR Band n77 - 90MHz π/2 BPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-137. Occupied Bandwidth Plot (NR Band n77 - 90MHz CP-OFDM QPSK - Full RB)



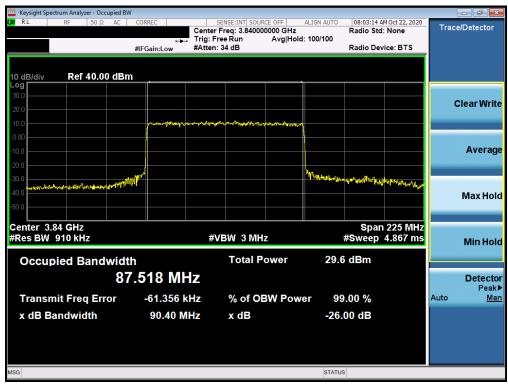
Plot 7-138. Occupied Bandwidth Plot (NR Band n77 - 90MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-139. Occupied Bandwidth Plot (NR Band n77 - 90MHz CP-OFDM 64-QAM - Full RB)



Plot 7-140. Occupied Bandwidth Plot (NR Band n77 - 90MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	Product to be part of @ demonst	PART 27 MEASUREMENT REPORT	MSUNG	Approved by: Quality Manager
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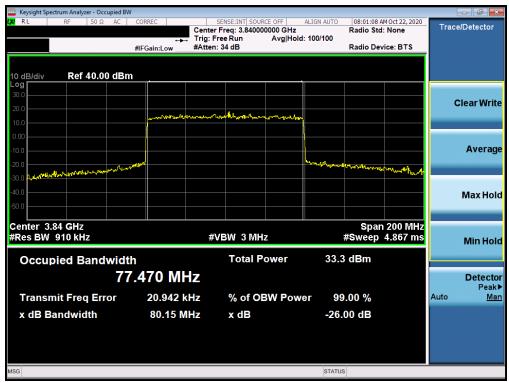
Plot 7-141. Occupied Bandwidth Plot (NR Band n77 - 80MHz π/2 BPSK - Full RB)



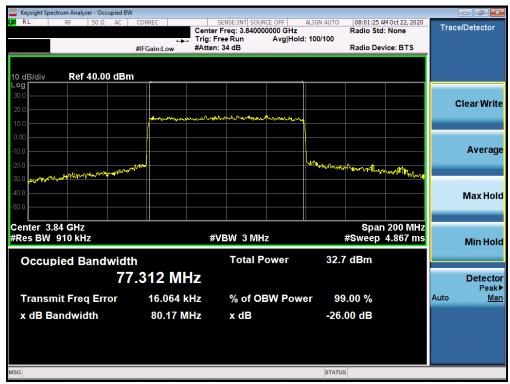
Plot 7-142. Occupied Bandwidth Plot (NR Band n77 - 80MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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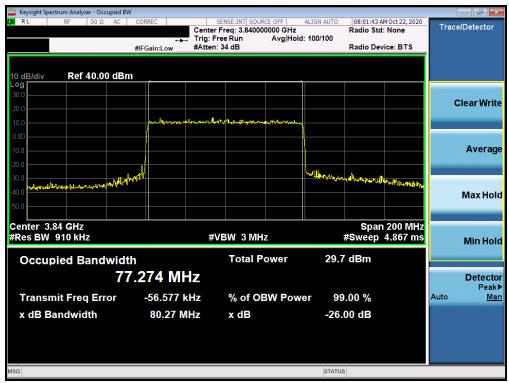
Plot 7-143. Occupied Bandwidth Plot (NR Band n77 - 80MHz CP-OFDM 16-QAM - Full RB)



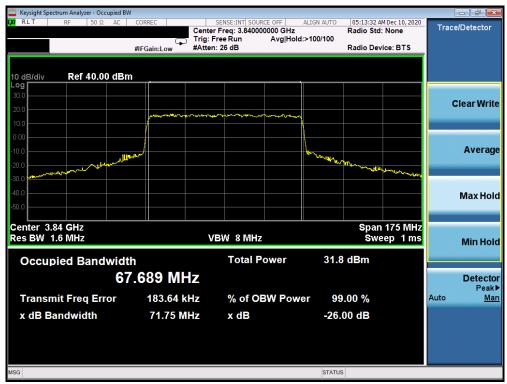
Plot 7-144. Occupied Bandwidth Plot (NR Band n77 - 80MHz CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-145. Occupied Bandwidth Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB)



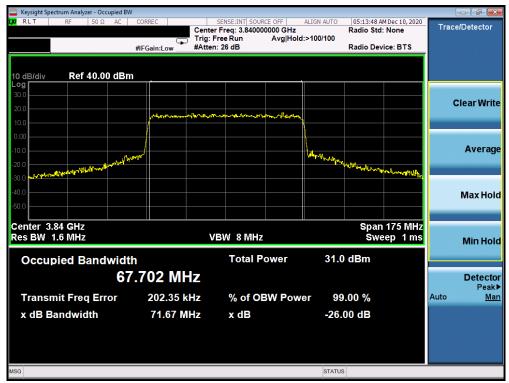
Plot 7-146. Occupied Bandwidth Plot (NR Band n77 - 70MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-147. Occupied Bandwidth Plot (NR Band n77 - 70MHz CP-OFDM 16-QAM - Full RB)



Plot 7-148. Occupied Bandwidth Plot (NR Band n77 - 70MHz CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST* Proud to be post of @ demont	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-149. Occupied Bandwidth Plot (NR Band n77 - 70MHz CP-OFDM 256-QAM - Full RB)



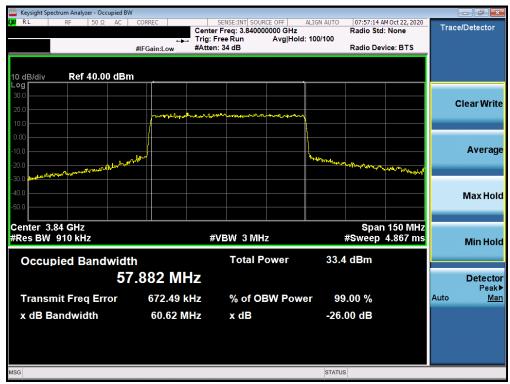
Plot 7-150. Occupied Bandwidth Plot (NR Band n77 - 60MHz π/2 BPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-151. Occupied Bandwidth Plot (NR Band n77 - 60MHz CP-OFDM QPSK - Full RB)



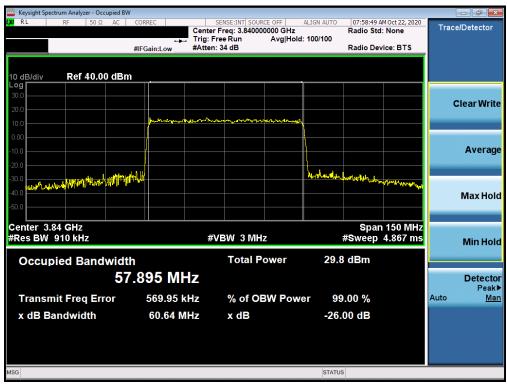
Plot 7-152. Occupied Bandwidth Plot (NR Band n77 - 60MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-153. Occupied Bandwidth Plot (NR Band n77 - 60MHz CP-OFDM 64-QAM - Full RB)



Plot 7-154. Occupied Bandwidth Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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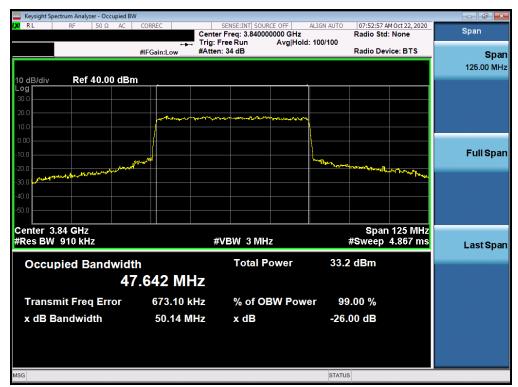
Plot 7-155. Occupied Bandwidth Plot (NR Band n77 - 50MHz π/2 BPSK - Full RB)



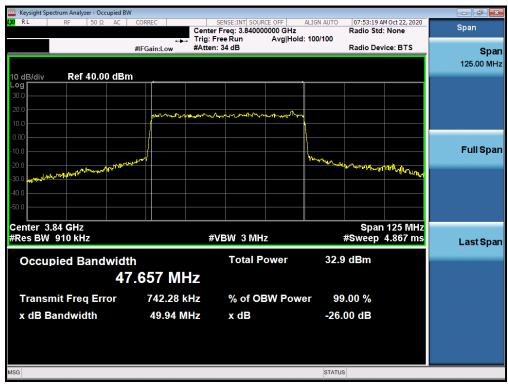
Plot 7-156. Occupied Bandwidth Plot (NR Band n77 - 50MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-157. Occupied Bandwidth Plot (NR Band n77 - 50MHz CP-OFDM 16-QAM - Full RB)



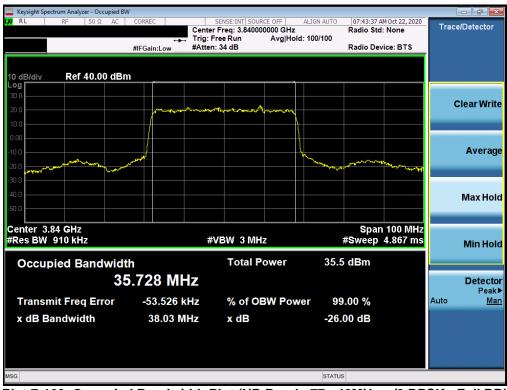
Plot 7-158. Occupied Bandwidth Plot (NR Band n77 - 50MHz CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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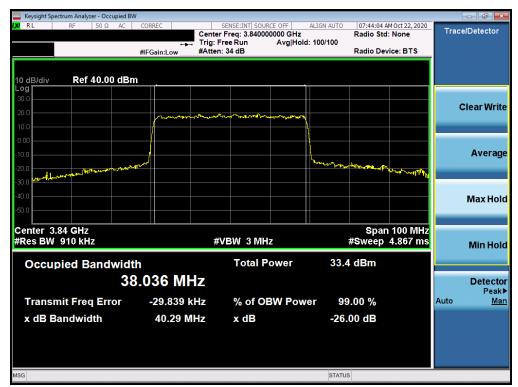
Plot 7-159. Occupied Bandwidth Plot (NR Band n77 - 50MHz CP-OFDM 256-QAM - Full RB)



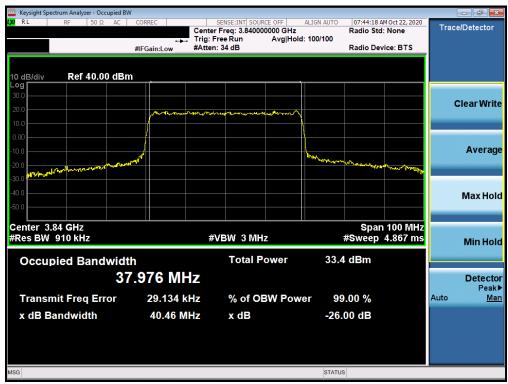
Plot 7-160. Occupied Bandwidth Plot (NR Band n77 - 40MHz π/2 BPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-161. Occupied Bandwidth Plot (NR Band n77 - 40MHz CP-OFDM QPSK - Full RB)



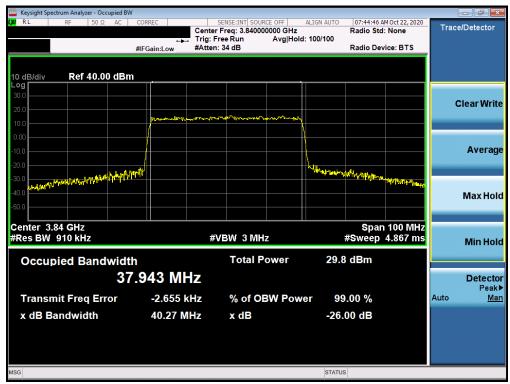
Plot 7-162. Occupied Bandwidth Plot (NR Band n77 - 40MHz CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-163. Occupied Bandwidth Plot (NR Band n77 - 40MHz CP-OFDM 64-QAM - Full RB)



Plot 7-164. Occupied Bandwidth Plot (NR Band n77 - 40MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	Product to be part of ((a) element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Plot 7-165. Occupied Bandwidth Plot (NR Band n77 - 30MHz π/2 BPSK - Full RB)



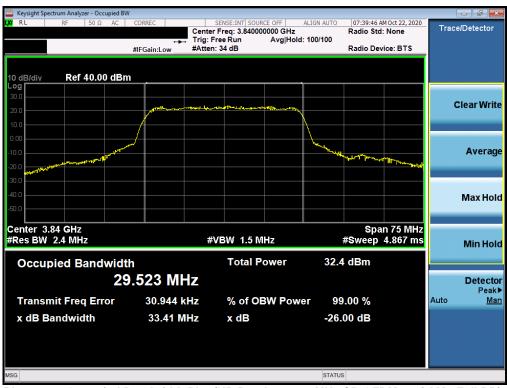
Plot 7-166. Occupied Bandwidth Plot (NR Band n77 - 30MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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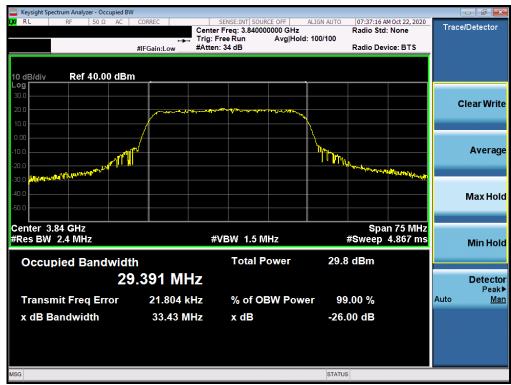
Plot 7-167. Occupied Bandwidth Plot (NR Band n77 - 30MHz CP-OFDM 16-QAM - Full RB)



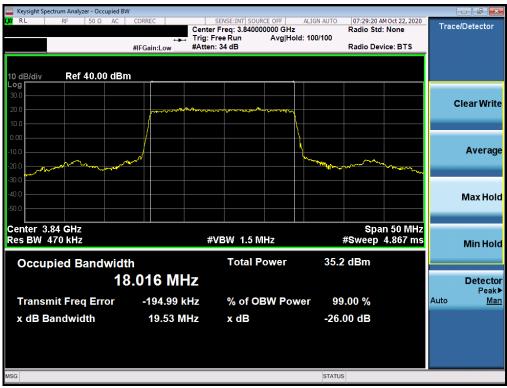
Plot 7-168. Occupied Bandwidth Plot (NR Band n77 - 30MHz CP-OFDM 64-QAM - Full RB)

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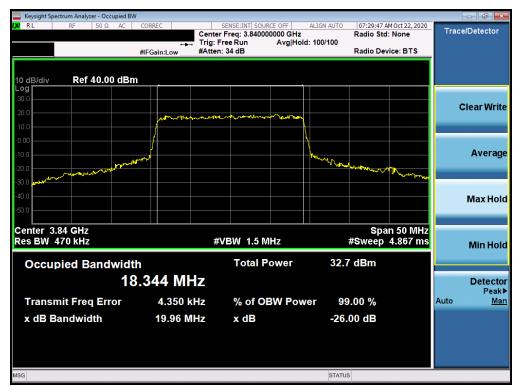
Plot 7-169. Occupied Bandwidth Plot (NR Band n77 - 30MHz CP-OFDM 256-QAM - Full RB)



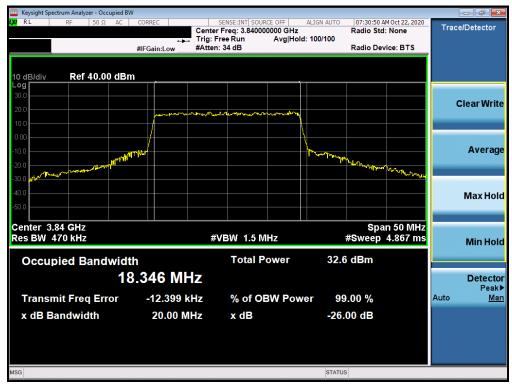
Plot 7-170. Occupied Bandwidth Plot (NR Band n77 - 20MHz π/2 BPSK - Full RB)

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Plot 7-171. Occupied Bandwidth Plot (NR Band n77 - 20MHz CP-OFDM QPSK - Full RB)



Plot 7-172. Occupied Bandwidth Plot (NR Band n77 - 20MHz CP-OFDM 16-QAM - Full RB)

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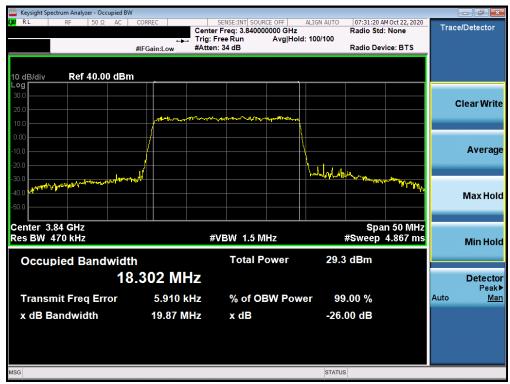
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Plot 7-173. Occupied Bandwidth Plot (NR Band n77 - 20MHz CP-OFDM 64-QAM - Full RB)



Plot 7-174. Occupied Bandwidth Plot (NR Band n77 - 20MHz CP-OFDM 256-QAM - Full RB)

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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 10th 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 $55 + 10log_{10}(P_{[Watts]})$.

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 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

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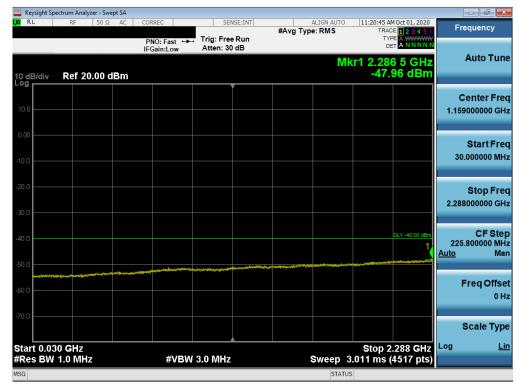
Test Notes

- 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 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.
- 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.

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LTE Band 30



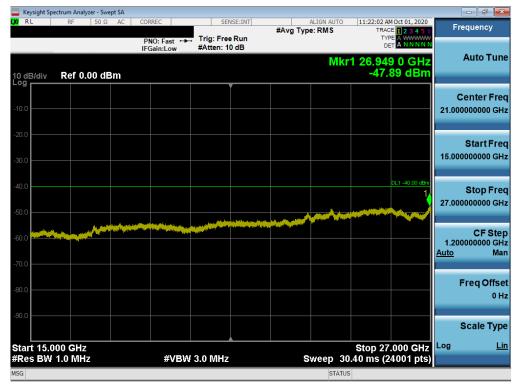
Plot 7-175. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-176. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0)

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Plot 7-177. Conducted Spurious Plot (LTE Band 30 - 10MHz QPSK - RB Size 1, RB Offset 0)

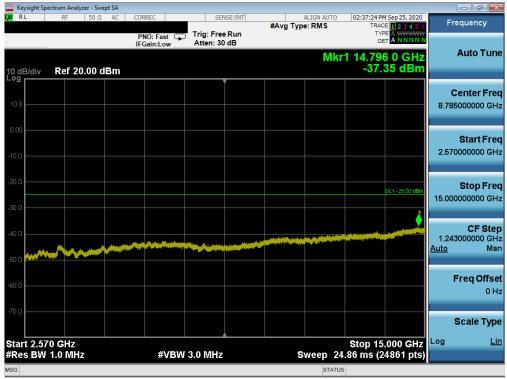
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LTE Band 7



Plot 7-178. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



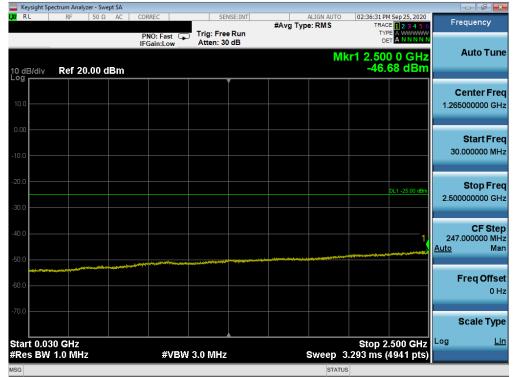
Plot 7-179. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

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Plot 7-180. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-181. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

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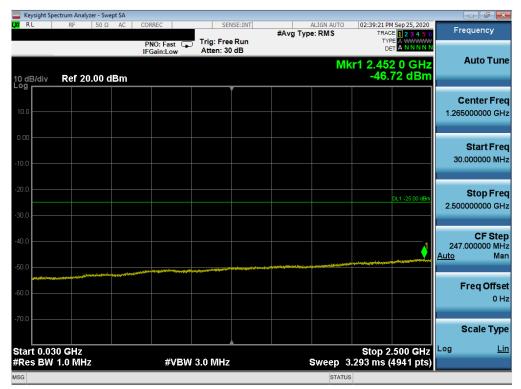
Plot 7-182. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



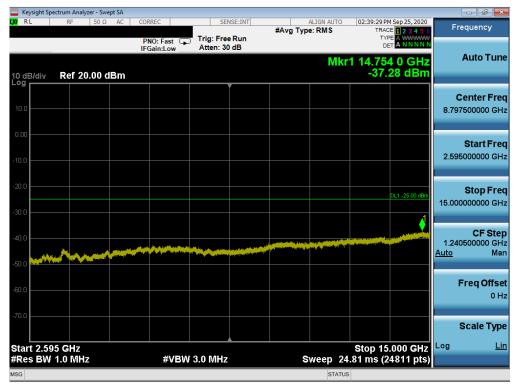
Plot 7-183. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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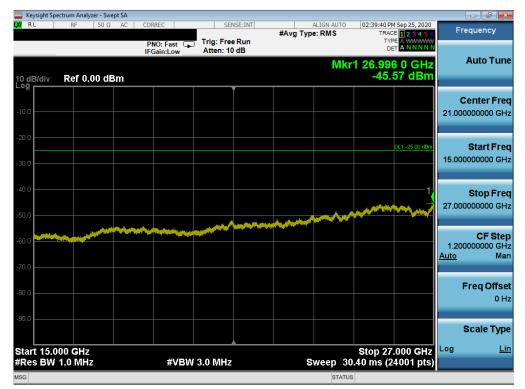
Plot 7-184. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-185. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

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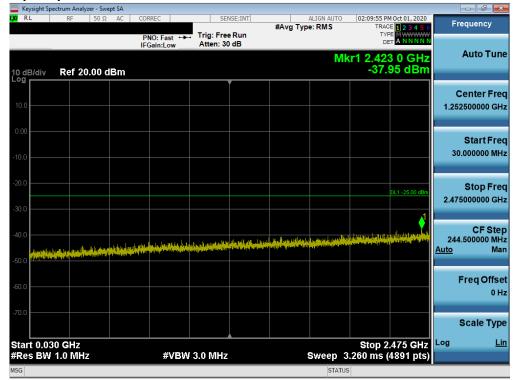
Plot 7-186. Conducted Spurious Plot (LTE Band 7 - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG998U	Poud to be port of sement	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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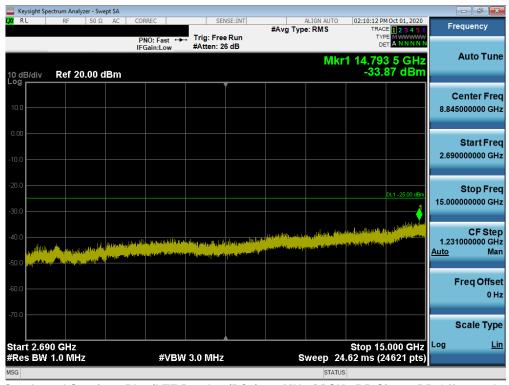
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LTE Band 41(PC2)



Plot 7-187. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



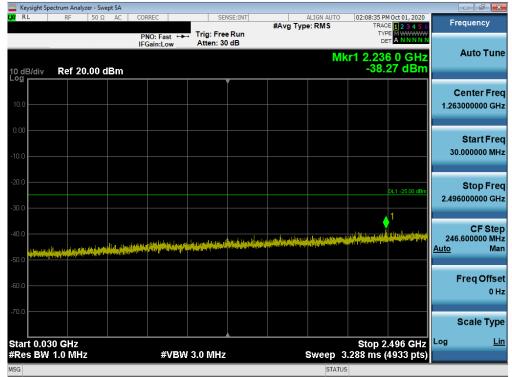
Plot 7-188. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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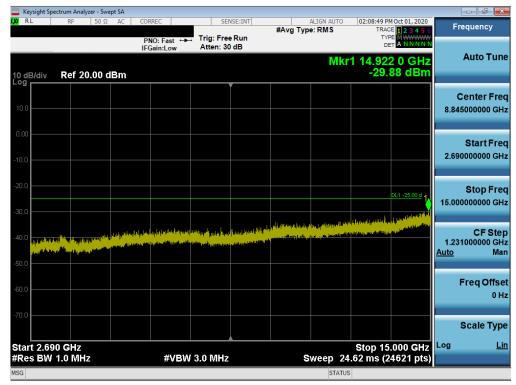
Plot 7-189. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-190. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

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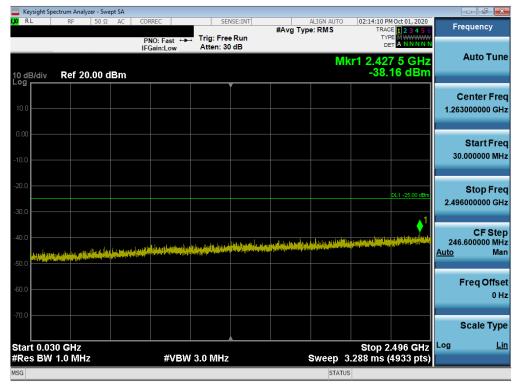
Plot 7-191. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



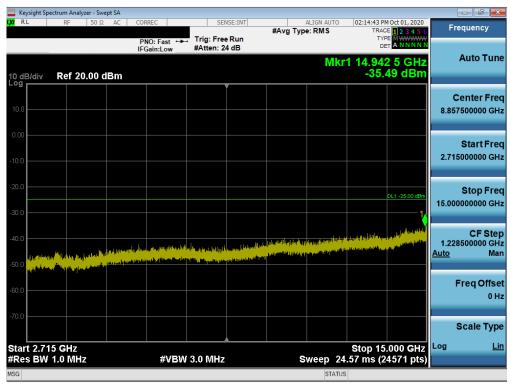
Plot 7-192. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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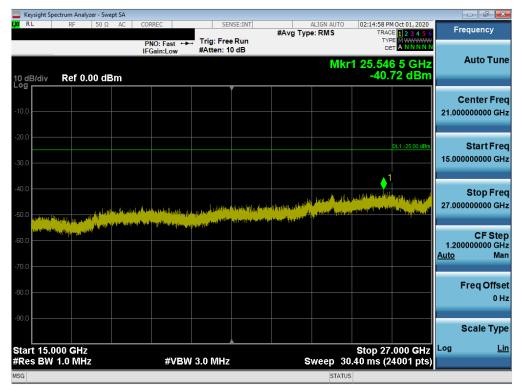
Plot 7-193. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-194. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

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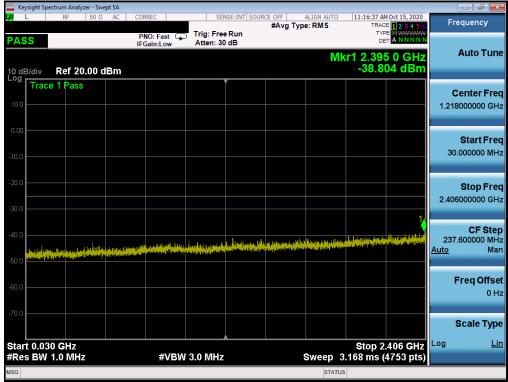


Plot 7-195. Conducted Spurious Plot (LTE Band 41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

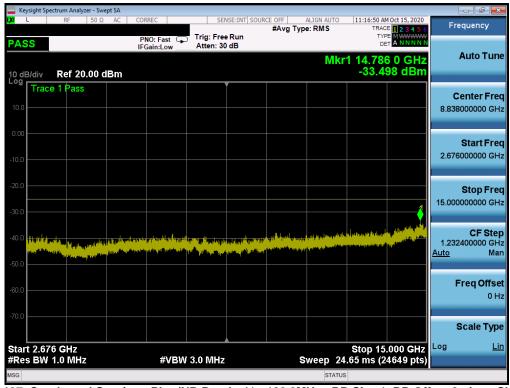
FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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NR Band n41 ANT E



Plot 7-196. Conducted Spurious Plot (NR Band n41 -100.0MHz - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-197. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Low Channel)

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Plot 7-198. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-199. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

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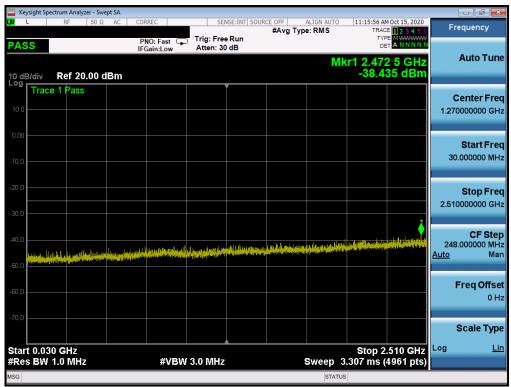
Plot 7-200. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Mid Channel)



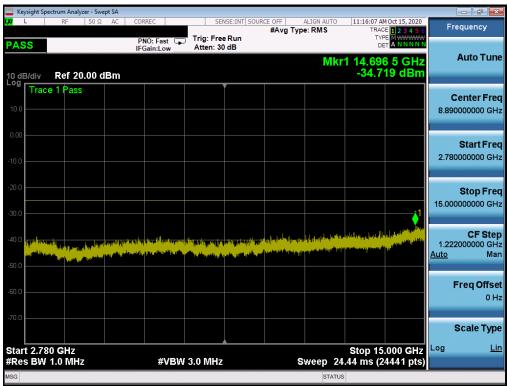
Plot 7-201. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-202. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - High Channel)



Plot 7-203. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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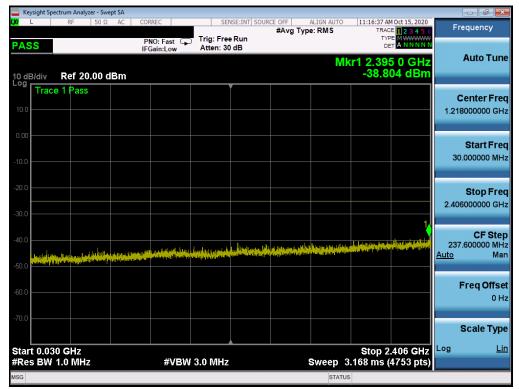


Plot 7-204. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - High Channel)

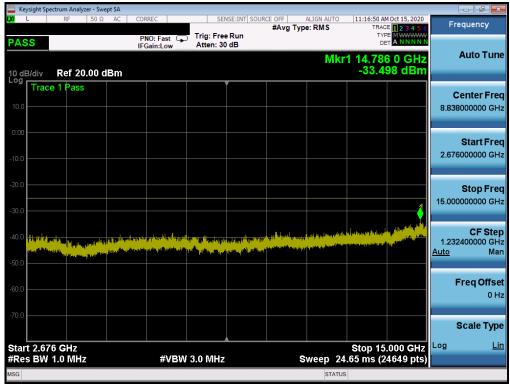
FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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NR Band n41 ANT B



Plot 7-205. Conducted Spurious Plot (NR Band n41 -100.0MHz - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-206. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Low Channel)

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Plot 7-207. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Low Channel)

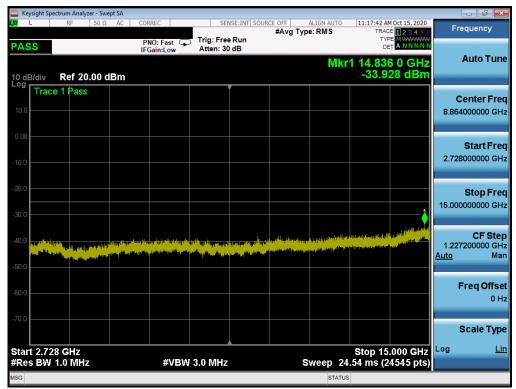


Plot 7-208. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-209. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-210. Conducted Spurious Plot (NR Band n41 - 100.0MHz - RB Size 1, RB Offset 0 - Mid Channel)

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