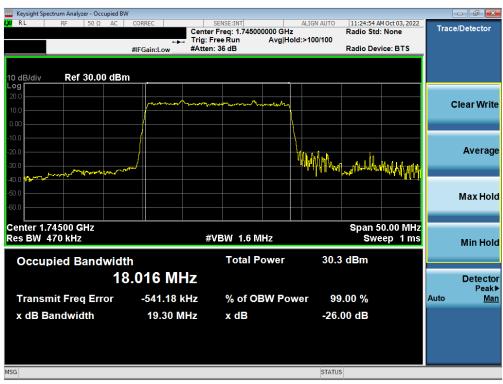




Plot 7-96. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB - Ant F)



Plot 7-97. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

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Plot 7-98. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - Ant F)



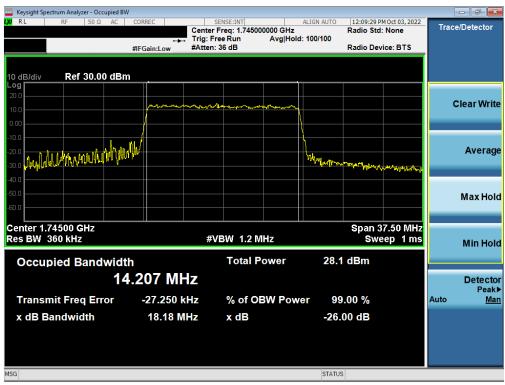
Plot 7-99. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB - Ant F)

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Plot 7-100. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)



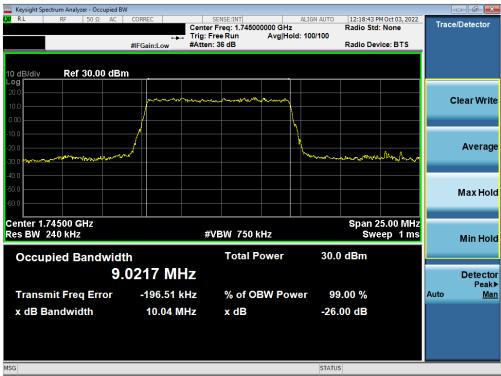
Plot 7-101. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - Ant F)

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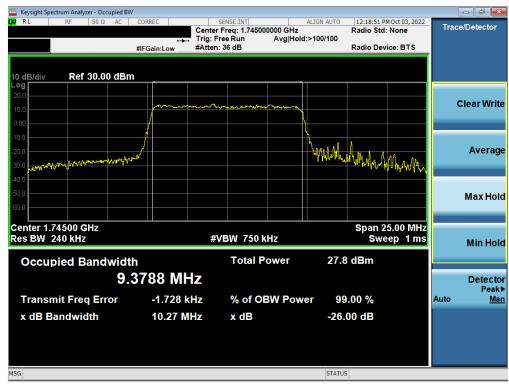
Plot 7-102. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB - Ant F)



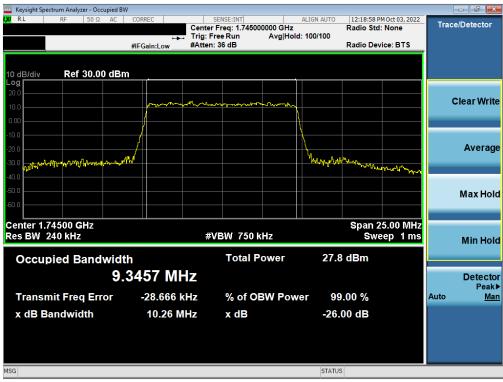
Plot 7-103. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

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Plot 7-104. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - Ant F)



Plot 7-105. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB - Ant F)

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Plot 7-106. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

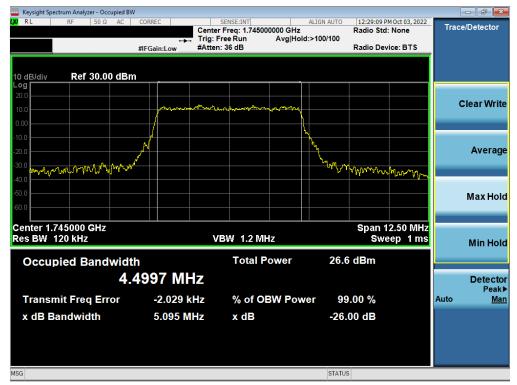


Plot 7-107. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - Ant F)

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Plot 7-108. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB - Ant F)

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

Test Procedure Used

ANSI C63.26-2015 - Section 5.7.4

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
- 2. RBW ≥ 100kHz
- 3. VBW \geq 3 x RBW
- 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

Test Notes

- 1. Per Part 27 and RSS-139, 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.
- 2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

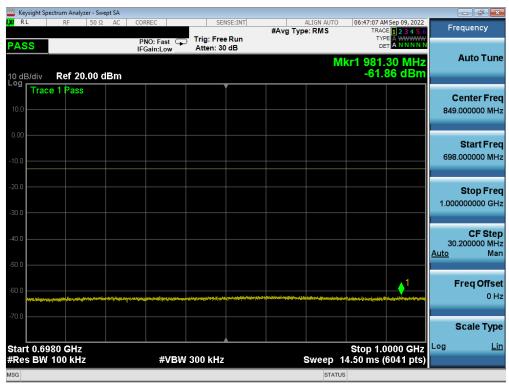
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 71 - Ant A



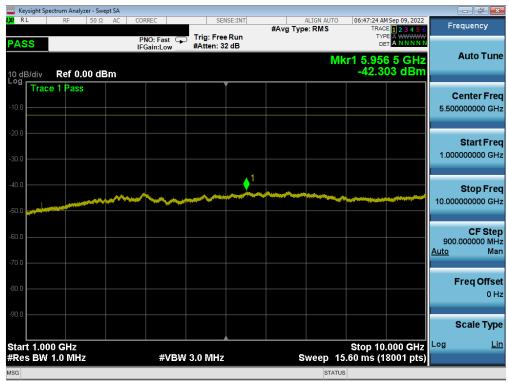
Plot 7-109. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - Ant A)



Plot 7-110. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - Ant A)

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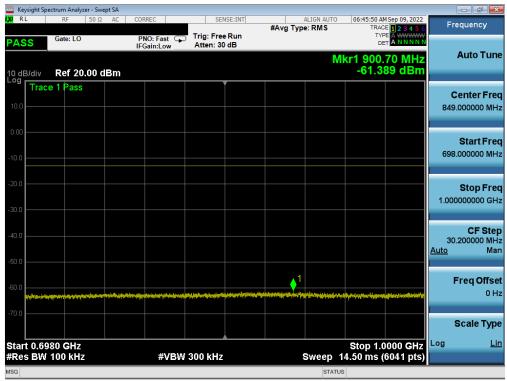
Plot 7-111. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - Ant A)



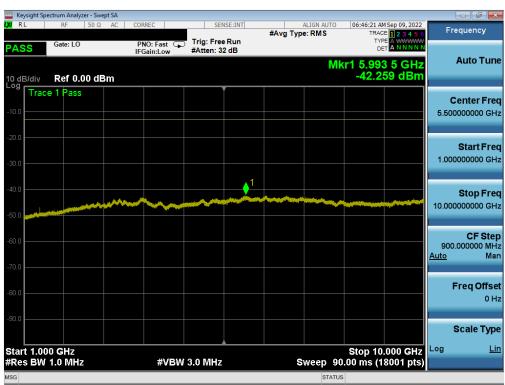
Plot 7-112. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel - Ant A)

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Plot 7-113. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel - Ant A)



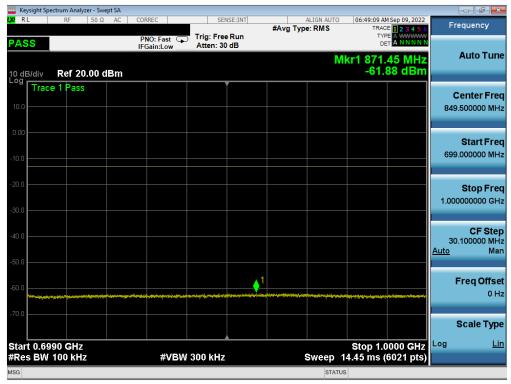
Plot 7-114. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Mid Channel - Ant A)

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Plot 7-115. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - Ant A)



Plot 7-116. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - Ant A)

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Plot 7-117. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - Ant A)

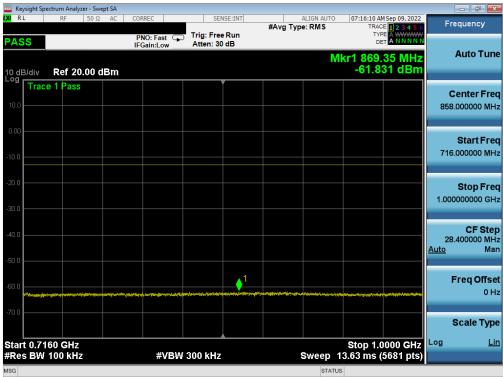
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12 - Ant A



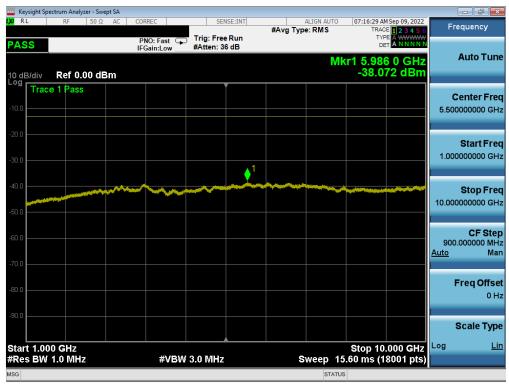
Plot 7-118. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - Ant A)



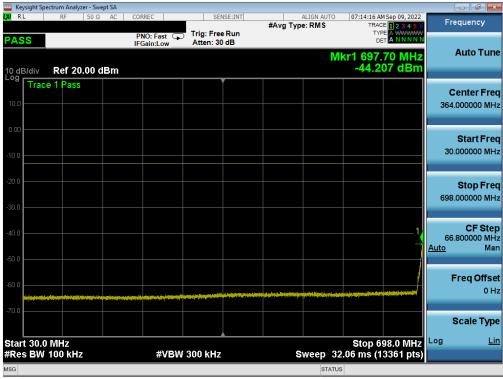
Plot 7-119. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - Ant A)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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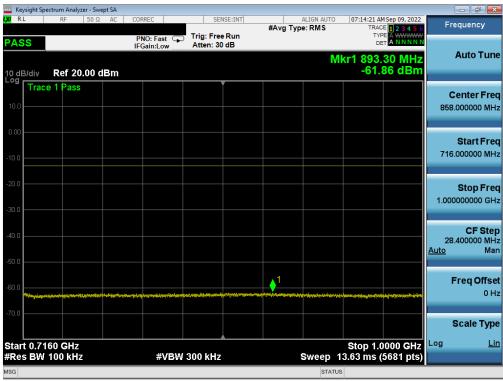
Plot 7-120. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - Ant A)



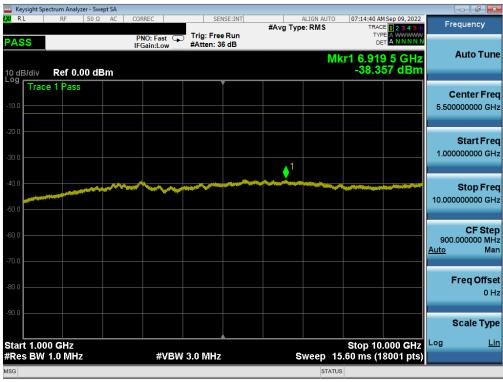
Plot 7-121. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Mid Channel - Ant A)

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Plot 7-122. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Mid Channel - Ant A)



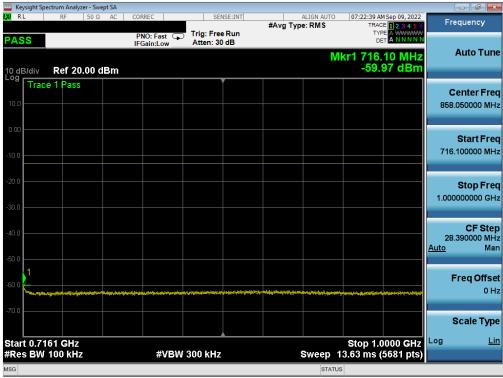
Plot 7-123. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Mid Channel - Ant A)

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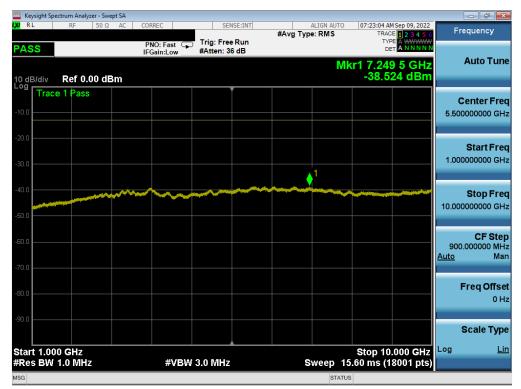
Plot 7-124. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - High Channel - Ant A)



Plot 7-125. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - High Channel - Ant A)

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Plot 7-126. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - High Channel - Ant A)

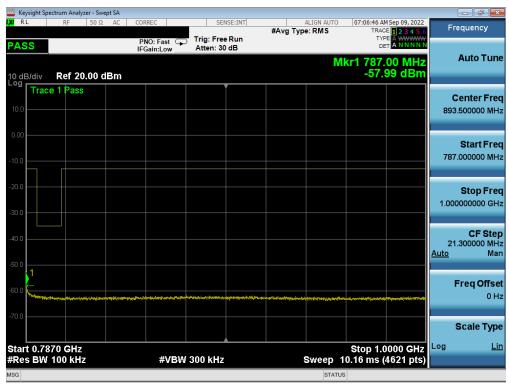
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 - Ant A



Plot 7-127. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



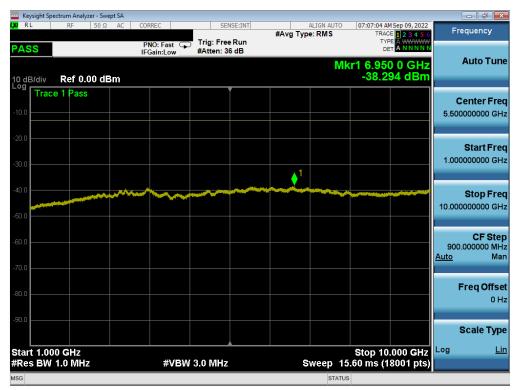
Plot 7-128. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-129. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

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NR Band n71 - Ant A



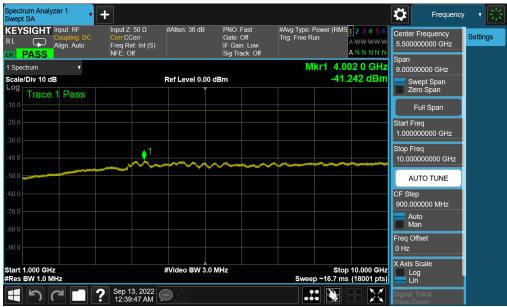
Plot 7-130. Conducted Spurious Plot (NR Band n71 -20.0MHz - 1 RB - Low Channel - Ant A)



Plot 7-131. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel - Ant A)

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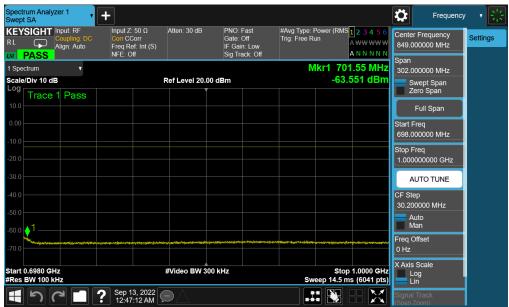
Plot 7-132. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel - Ant A)



Plot 7-133. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel - Ant A)

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Plot 7-134. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel - Ant A)



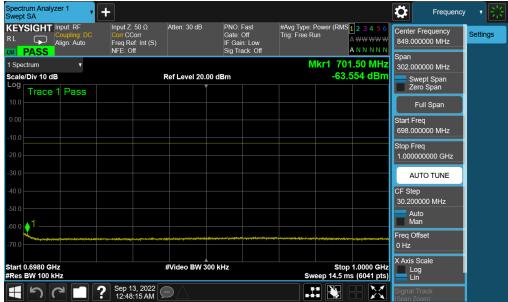
Plot 7-135. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Mid Channel - Ant A)

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Plot 7-136. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel - Ant A)



Plot 7-137. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel - Ant A)

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Plot 7-138. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - High Channel - Ant A)

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NR Band n12 - Ant A



Plot 7-139. Conducted Spurious Plot (NR Band n12 -15.0MHz - 1 RB - Low Channel - Ant A)



Plot 7-140. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Low Channel - Ant A)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
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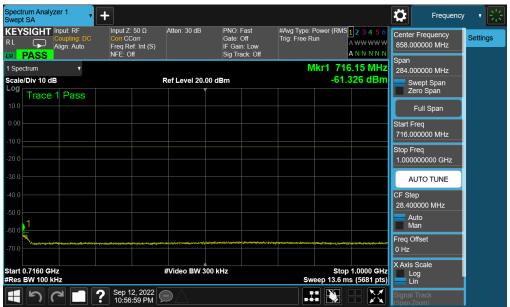
Plot 7-141. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Low Channel - Ant A)



Plot 7-142. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - Ant A)

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Plot 7-143. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - Ant A)



Plot 7-144. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Mid Channel - Ant A)

FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
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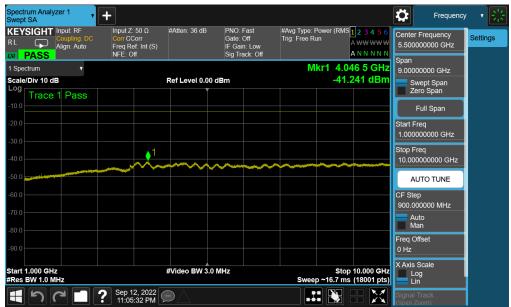
Plot 7-145. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - High Channel - Ant A)



Plot 7-146. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - High Channel - Ant A)

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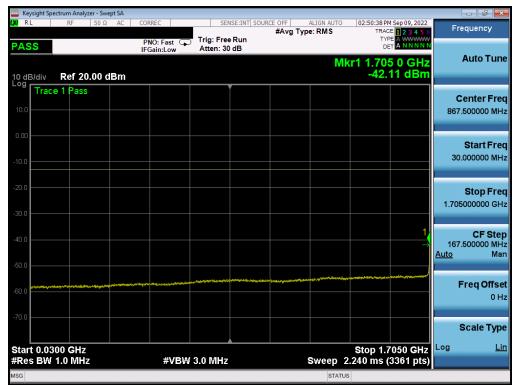


Plot 7-147. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - High Channel - Ant A)

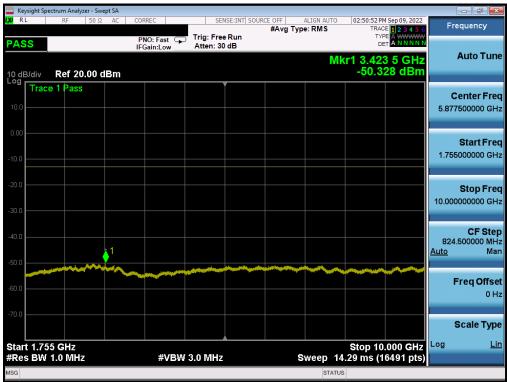
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WCDMA AWS - Ant A



Plot 7-148. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel - Ant A)



Plot 7-149. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel - Ant A)

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Plot 7-150. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel - Ant A)



Plot 7-151. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel - Ant A)

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Plot 7-152. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel - Ant A)



Plot 7-153. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel - Ant A)

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Plot 7-154. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel - Ant A)



Plot 7-155. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel - Ant A)

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Plot 7-156. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel - Ant A)

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LTE Band 66/4 - Ant A



Plot 7-157. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant A)



Plot 7-158. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant A)

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Plot 7-159. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant A)



Plot 7-160. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant A)

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Plot 7-161. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant A)



Plot 7-162. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant A)

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Plot 7-163. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant A)



Plot 7-164. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant A)

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Plot 7-165. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant A)

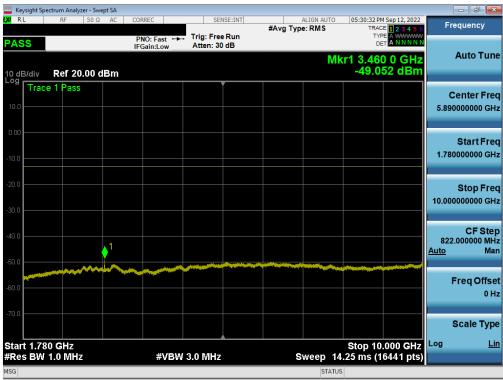
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 - Ant A



Plot 7-166. Conducted Spurious Plot (NR Band n66 -40.0MHz - 1 RB - Low Channel - Ant A)



Plot 7-167. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant A)

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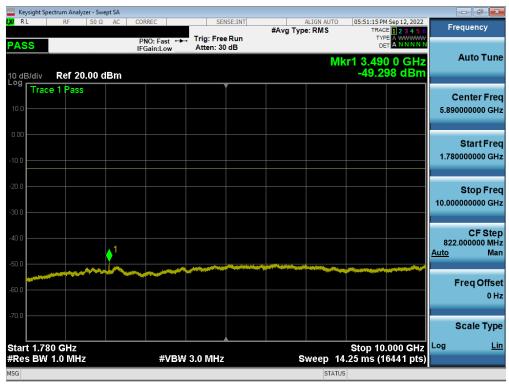
Plot 7-168. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant A)



Plot 7-169. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant A)

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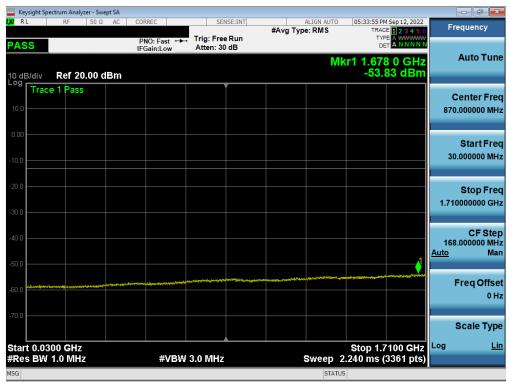
Plot 7-170. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant A)



Plot 7-171. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant A)

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Plot 7-172. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant A)



Plot 7-173. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant A)

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Plot 7-174. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant A)

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Uplink CA LTE Band 66B/C - Ant A



Plot 7-175. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant A)



Plot 7-176. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant A)

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Plot 7-177. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant A)



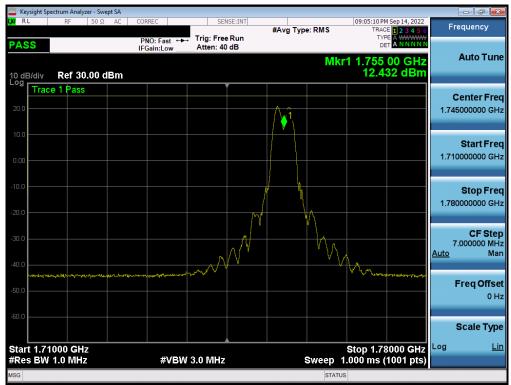
Plot 7-178. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant A)

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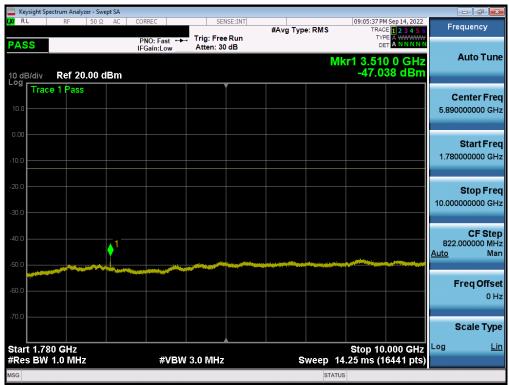
Plot 7-179. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant A)



Plot 7-180. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant A)

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Plot 7-181. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant A)

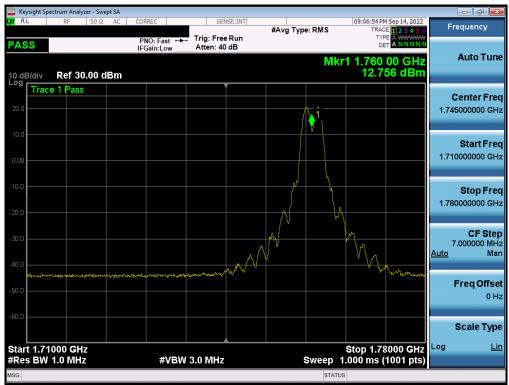


Plot 7-182. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant A)

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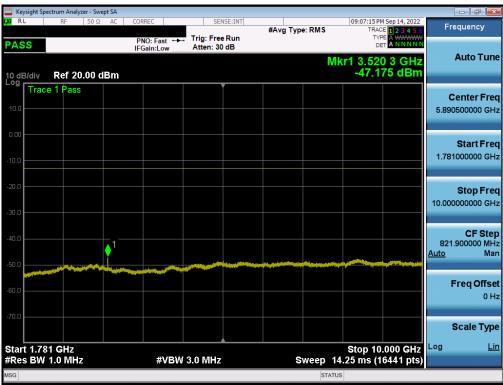
Plot 7-183. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant A)



Plot 7-184. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant A)

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Plot 7-185. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant A)



Plot 7-186. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant A)

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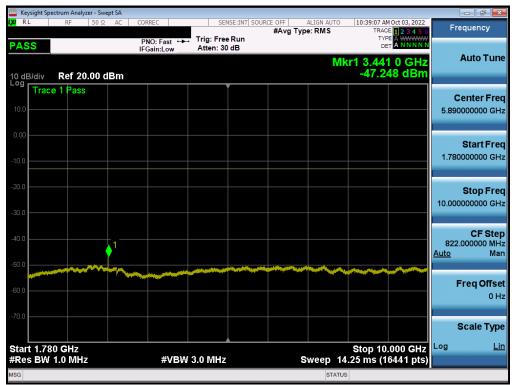
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LTE Band 66/4 - Ant F



Plot 7-187. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant F)



Plot 7-188. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant F)

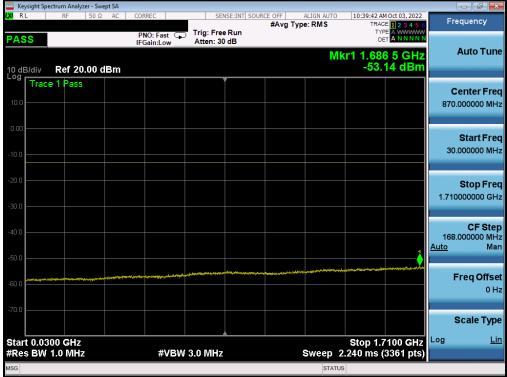
FCC ID: A3LSMS918U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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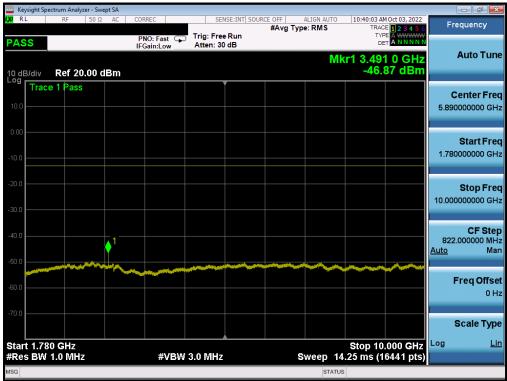
Plot 7-189. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant F)



Plot 7-190. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant F)

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Plot 7-191. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant F)



Plot 7-192. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant F)

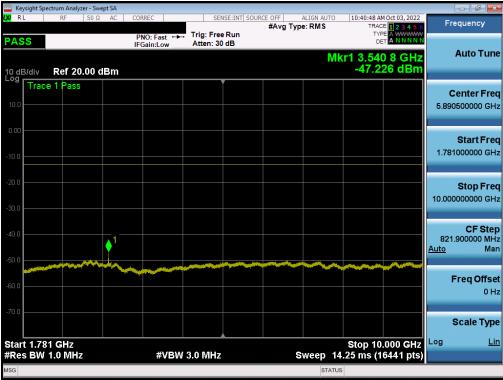
FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT	
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Plot 7-193. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant F)



Plot 7-194. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant F)

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Plot 7-195. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant F)

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NR Band n66 - Ant F



Plot 7-196. Conducted Spurious Plot (NR Band n66 -40.0MHz - 1 RB - Low Channel - Ant F)



Plot 7-197. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant F)

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