

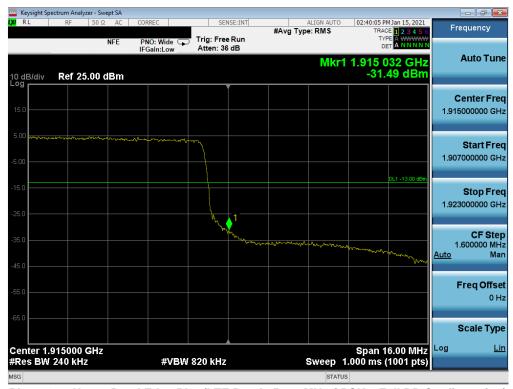
Plot 7-100. Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)



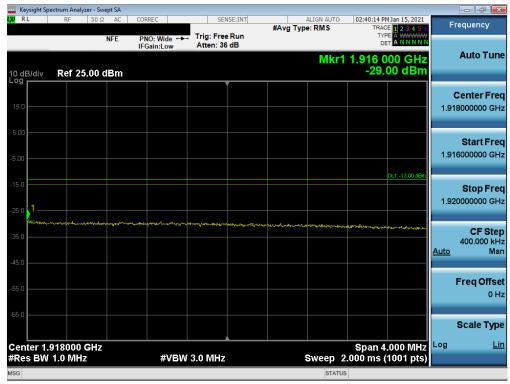
Plot 7-101. Extended Upper Band Edge Plot (LTE Band 2 - 20MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-102. Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK - Full RB Configuration)

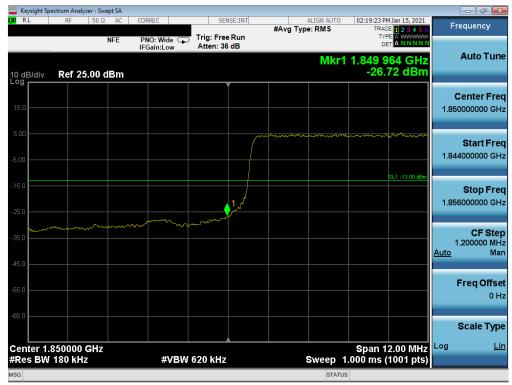


Plot 7-103. Extended Upper Band Edge Plot (LTE Band 25 - 20MHz QPSK - Full RB Configuration)

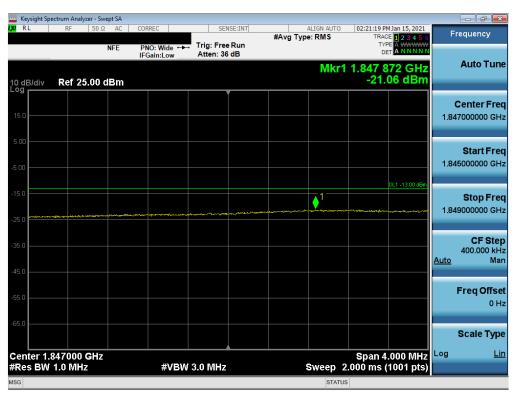
| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-104. Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)



Plot 7-105. Extended Lower Band Edge Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of @ element | PART 24 MEASUREMENT REPORT | SAMSUNG | Approved by: Technical Manager |
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Plot 7-106. Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)

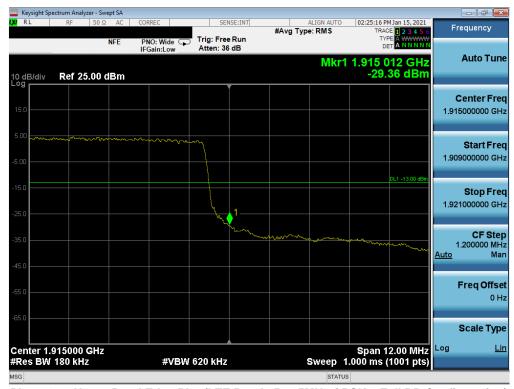


Plot 7-107. Extended Upper Band Edge Plot (LTE Band 2 - 15MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-108. Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK - Full RB Configuration)



Plot 7-109. Extended Upper Band Edge Plot (LTE Band 25 - 15MHz QPSK - Full RB Configuration)

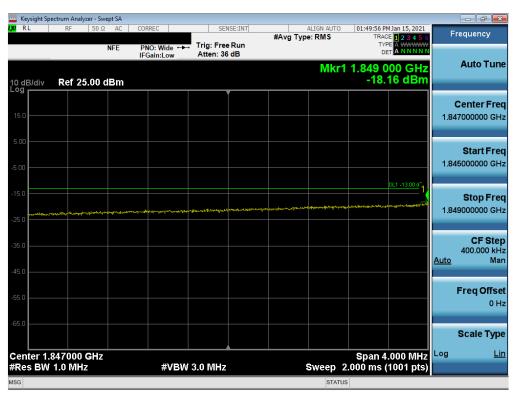
| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-110. Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

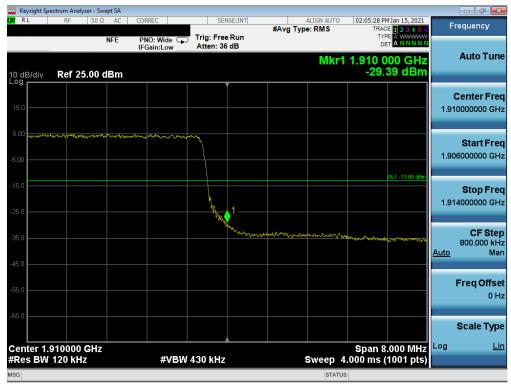


Plot 7-111. Extended Lower Band Edge Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

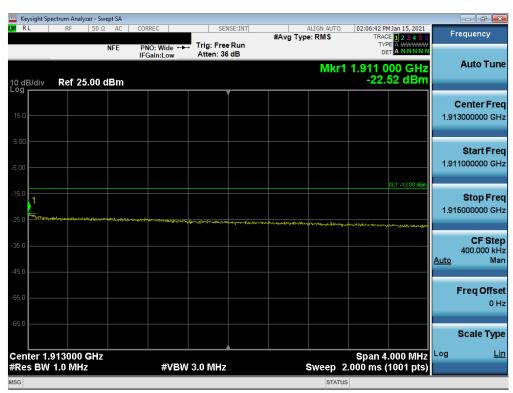
| FCC ID: A3LSMA426U | Proud to be port of @ element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-112. Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK - Full RB Configuration)



Plot 7-113. Extended Upper Band Edge Plot (LTE Band 2 - 10MHz QPSK - Full RB Configuration)

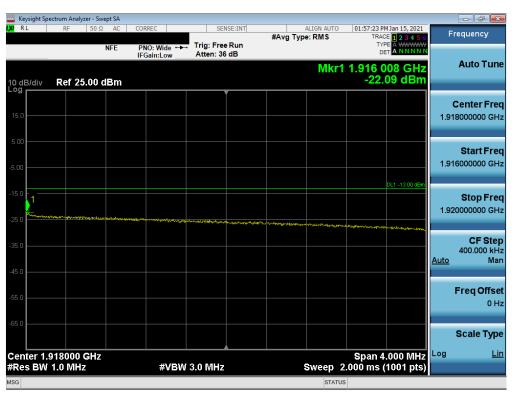
| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-114. Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK - Full RB Configuration)

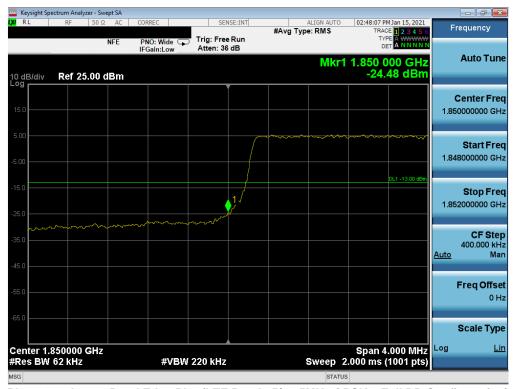


Plot 7-115. Extended Upper Band Edge Plot (LTE Band 25 - 10MHz QPSK - Full RB Configuration)

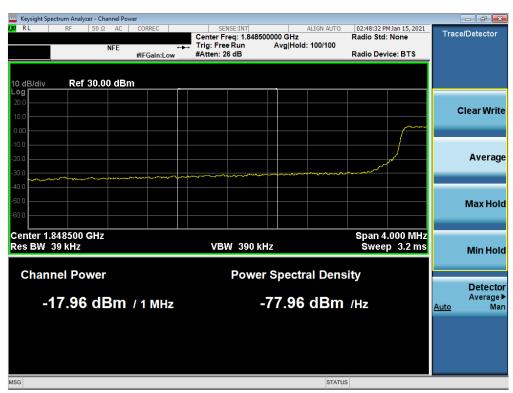
| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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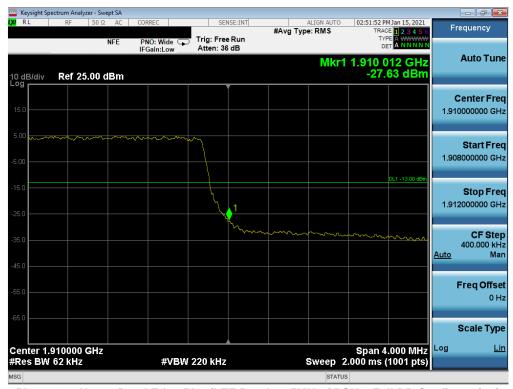
Plot 7-116. Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)



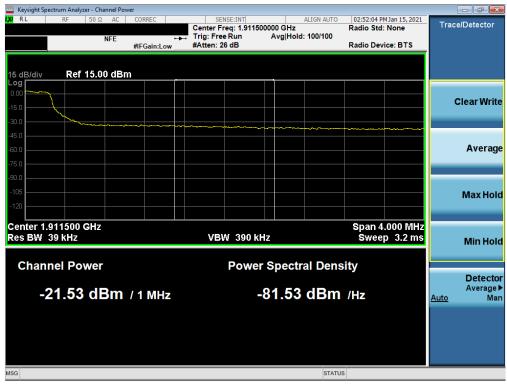
Plot 7-117. Extended Lower Band Edge Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-118. Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)



Plot 7-119. Extended Upper Band Edge Plot (LTE Band 2 - 5MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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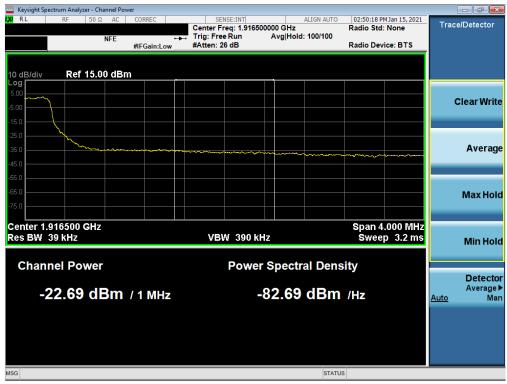
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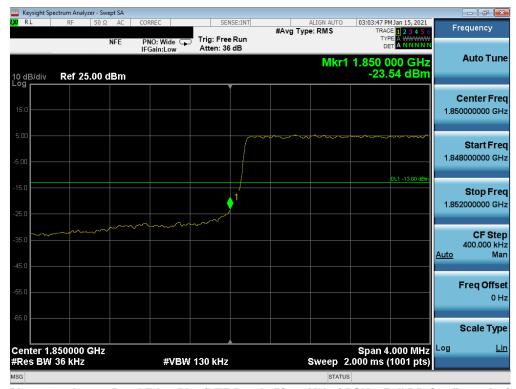
Plot 7-120. Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK - Full RB Configuration)



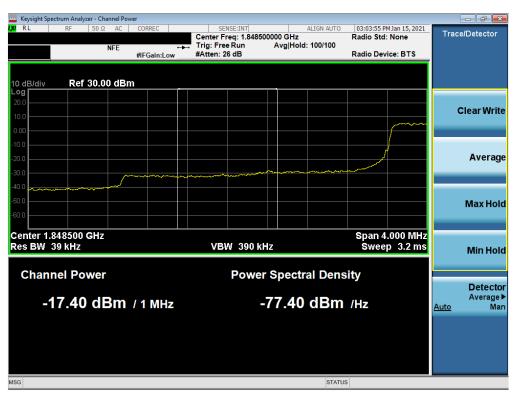
Plot 7-121. Extended Upper Band Edge Plot (LTE Band 25 - 5MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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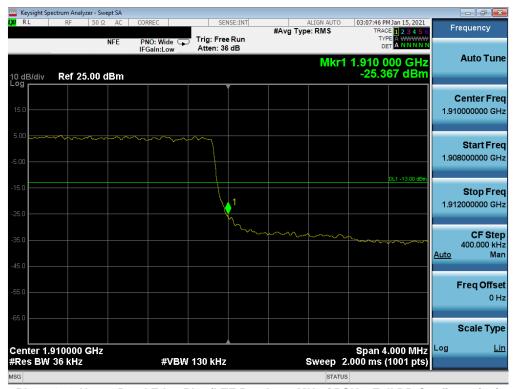
Plot 7-122. Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)



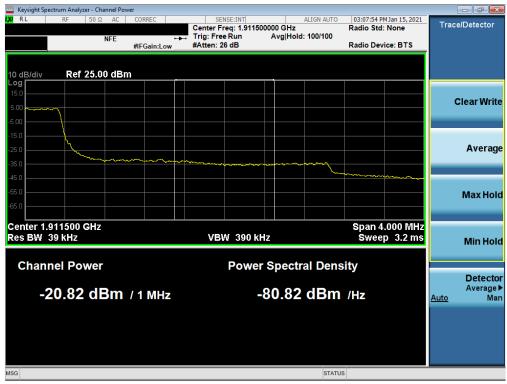
Plot 7-123. Extended Lower Band Edge Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-124. Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)



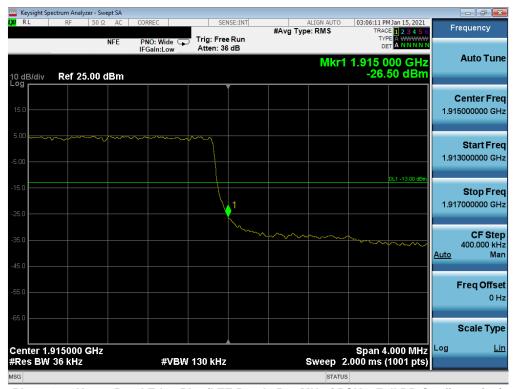
Plot 7-125. Extended Upper Band Edge Plot (LTE Band 2 - 3MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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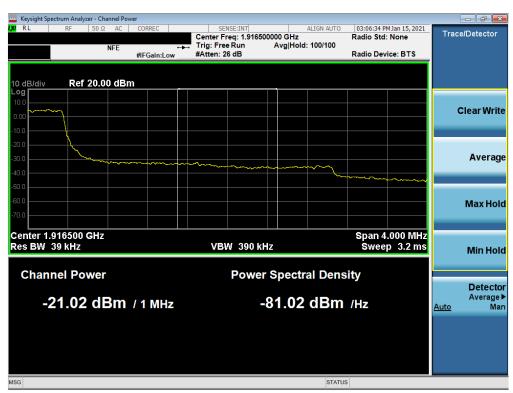
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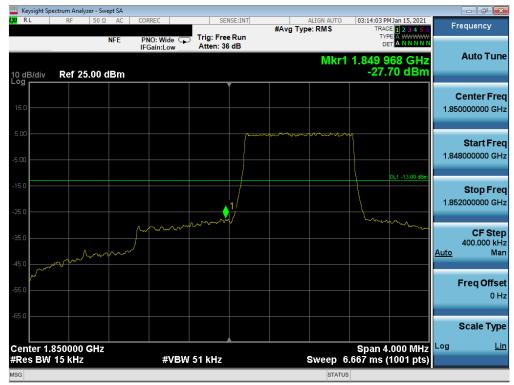
Plot 7-126. Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK - Full RB Configuration)



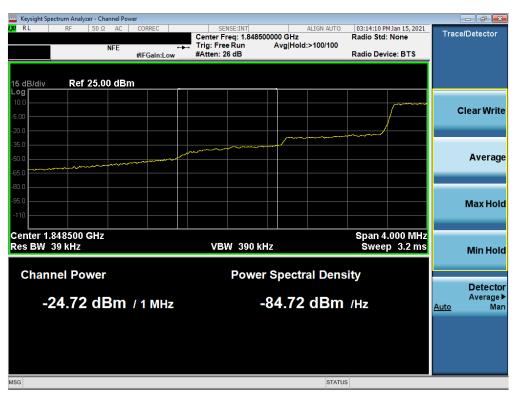
Plot 7-127. Extended Upper Band Edge Plot (LTE Band 25 - 3MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-128. Lower Band Edge Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

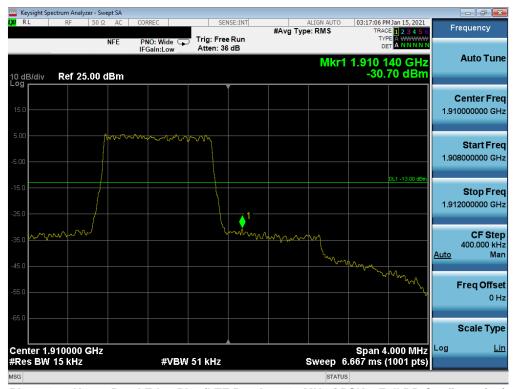


Plot 7-129. Extended Lower Band Edge Plot (LTE Band 25/2 – 1.4MHz QPSK – Full RB Configuration)

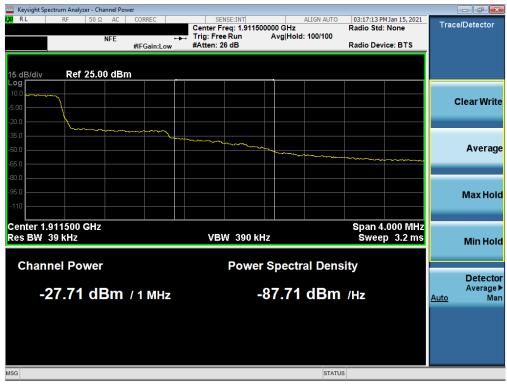
| FCC ID: A3LSMA426U | Proud to be port of selement | PART 24 MEASUREMENT REPORT | SAMSUNG | Approved by: Technical Manager |
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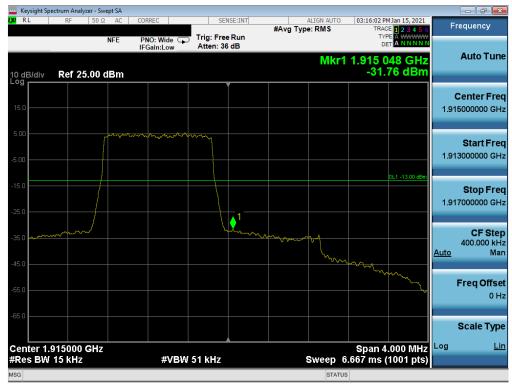
Plot 7-130. Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)



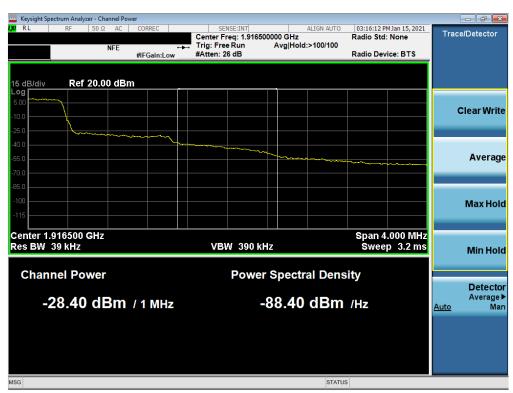
Plot 7-131. Extended Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-132. Upper Band Edge Plot (LTE Band 25 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-133. Extended Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

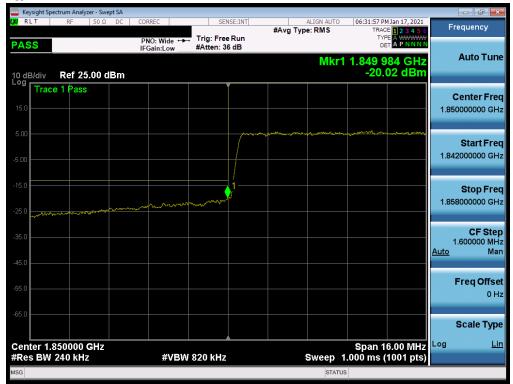
| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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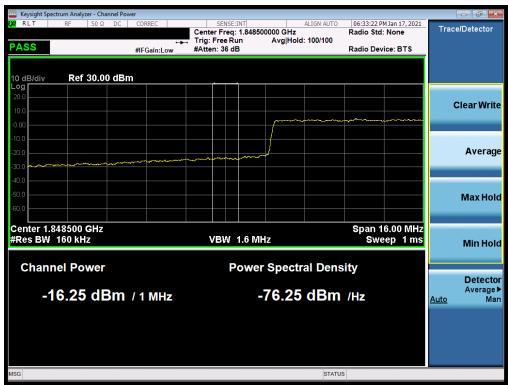
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NR Band n25/2



Plot 7-134. Lower Band Edge Plot (NR Band n25/2 - 20MHz QPSK - Full RB Configuration)



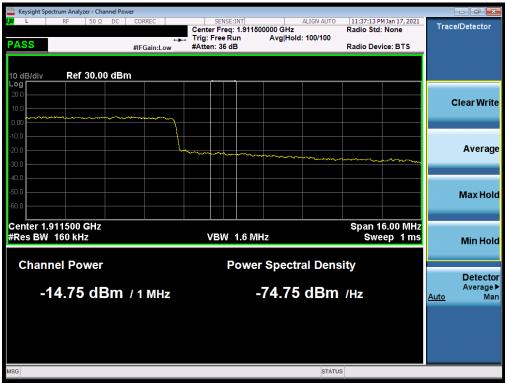
Plot 7-135. Extended Lower Band Edge Plot (NR Band n25/2 - 20MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-136. Upper Band Edge Plot (NR Band n2 - 20MHz QPSK - Full RB Configuration)



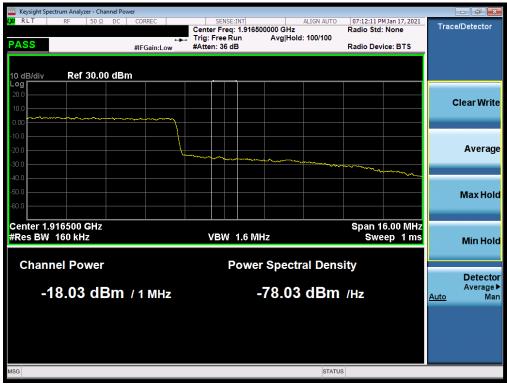
Plot 7-137. Extended Upper Band Edge Plot (NR Band n2 - 20MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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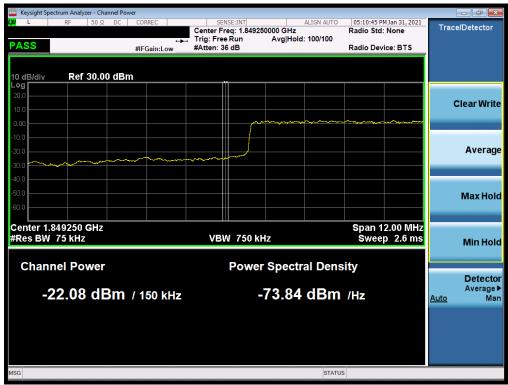
Plot 7-138. Upper Band Edge Plot (NR Band n25 - 20MHz QPSK - Full RB Configuration)



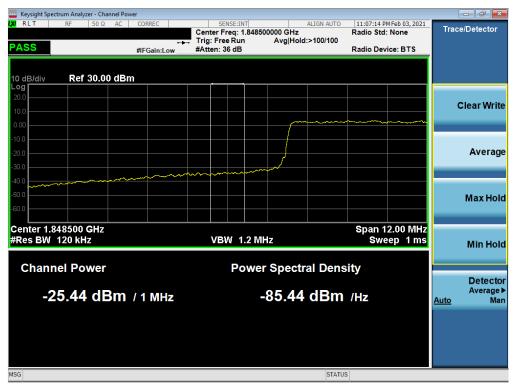
Plot 7-139. Extended Upper Band Edge Plot (NR Band n25 - 20MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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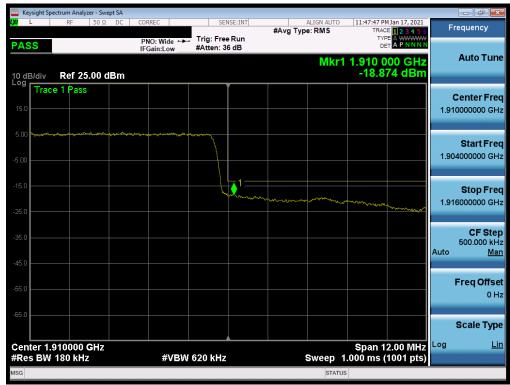
Plot 7-140. Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK - Full RB Configuration)



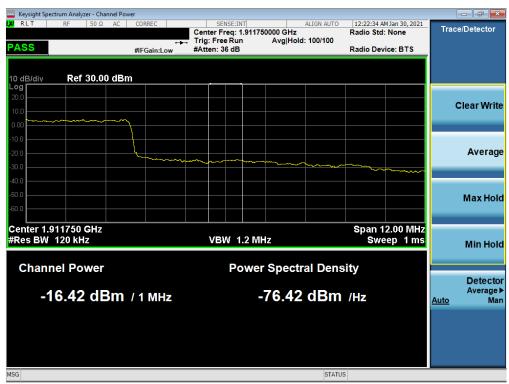
Plot 7-141. Extended Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-142. Upper Band Edge Plot (NR Band n2 - 15MHz QPSK - Full RB Configuration)



Plot 7-143. Extended Upper Band Edge Plot (NR Band n2 - 15MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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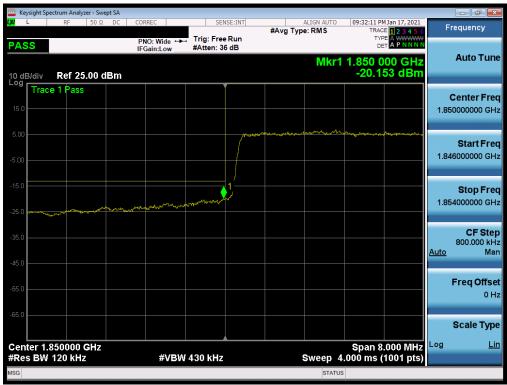
Plot 7-144. Upper Band Edge Plot (NR Band n25 - 15MHz QPSK - Full RB Configuration)



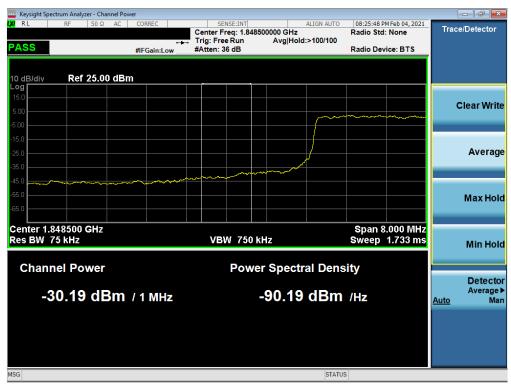
Plot 7-145. Extended Upper Band Edge Plot (NR Band n25 - 15MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-146. Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB Configuration)



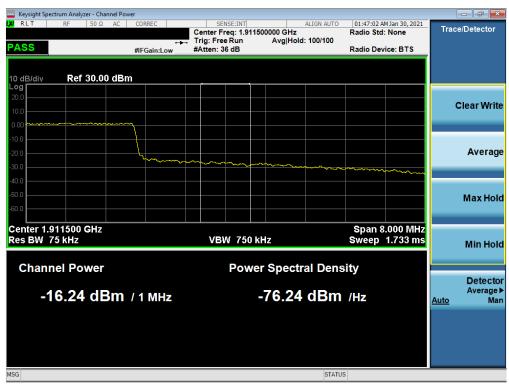
Plot 7-147. Extended Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-148. Upper Band Edge Plot (NR Band n2 - 10MHz QPSK - Full RB Configuration)



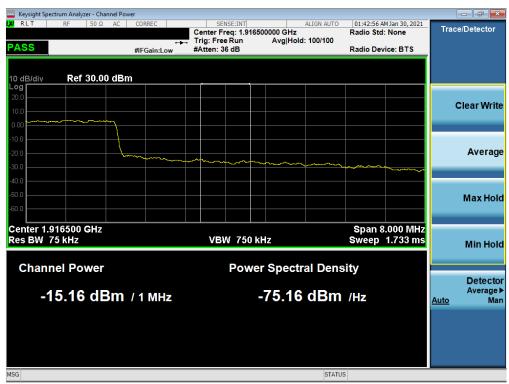
Plot 7-149. Extended Upper Band Edge Plot (NR Band n2 - 10MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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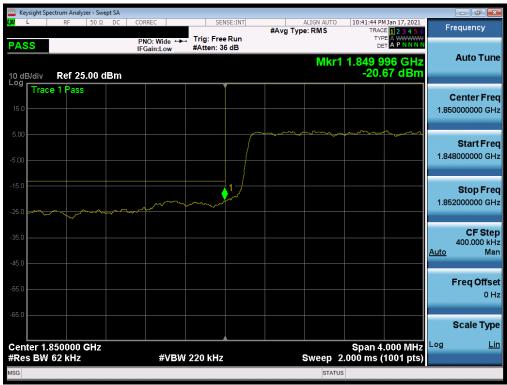
Plot 7-150. Upper Band Edge Plot (NR Band n25 - 10MHz QPSK - Full RB Configuration)



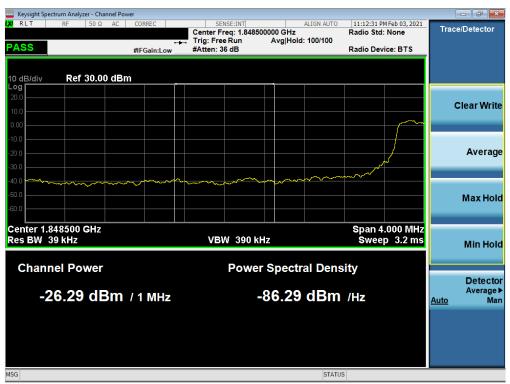
Plot 7-151. Extended Upper Band Edge Plot (NR Band n25 - 10MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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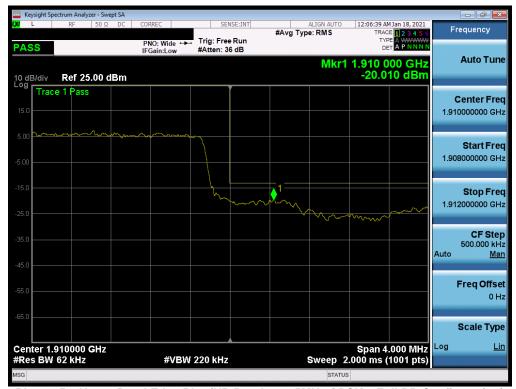
Plot 7-152. Lower Band Edge Plot (NR Band n25/2 - 5MHz QPSK - Full RB Configuration)



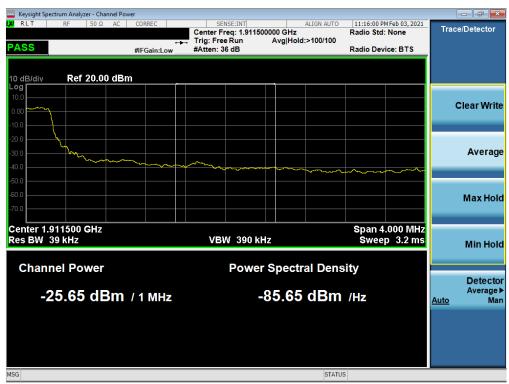
Plot 7-153. Extended Lower Band Edge Plot (NR Band n25/2 - 5MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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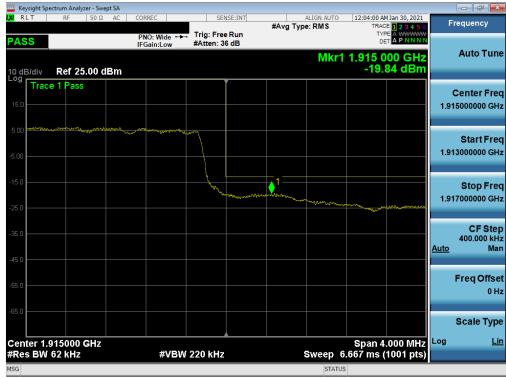
Plot 7-154. Upper Band Edge Plot (NR Band n2 - 5MHz QPSK - Full RB Configuration)



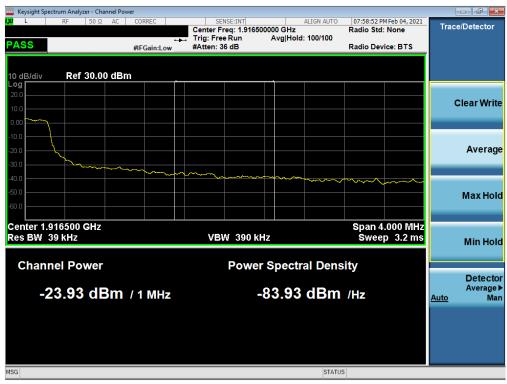
Plot 7-155. Extended Upper Band Edge Plot (NR Band n2 - 5MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-156. Upper Band Edge Plot (NR Band n25 - 5MHz QPSK - Full RB Configuration)



Plot 7-157. Extended Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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7.5 Peak-Average Ratio

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

Test Settings

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

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

assembly of contents thereof, please contact INFO@PCTEST.COM.

None.

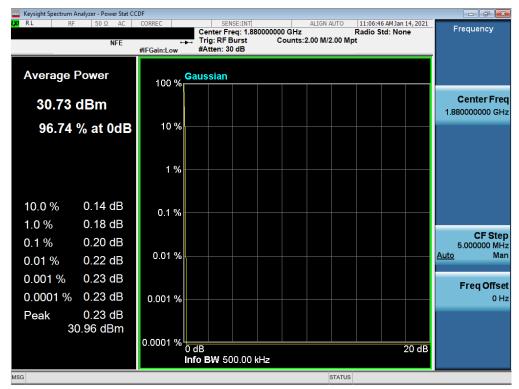
| FCC ID: A3LSMA426U | Protest* Proud to be part of @ element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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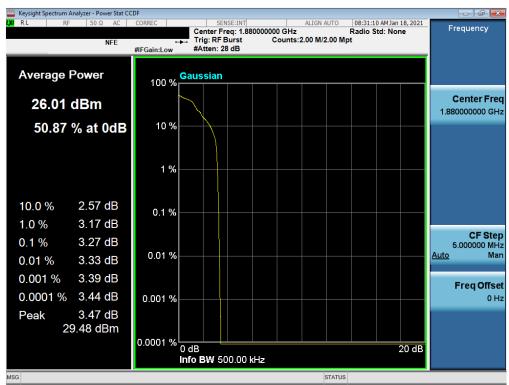
V1.2 11/2/2020
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GSM/GPRS PCS



Plot 7-158. PAR Plot (GPRS, Ch. 661)

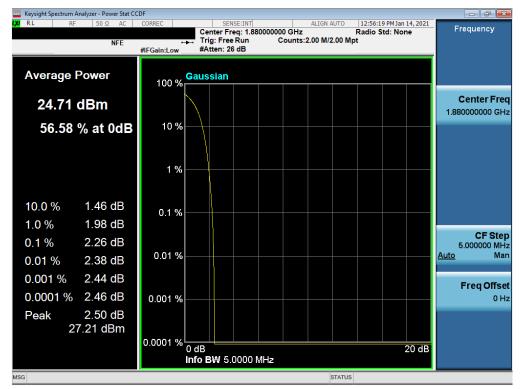


Plot 7-159. PAR Plot (EDGE, Ch. 661)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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WCDMA PCS

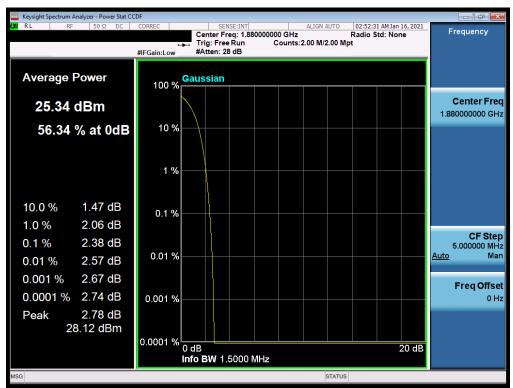


Plot 7-160. PAR Plot (WCDMA, Ch. 9400)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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CDMA PCS

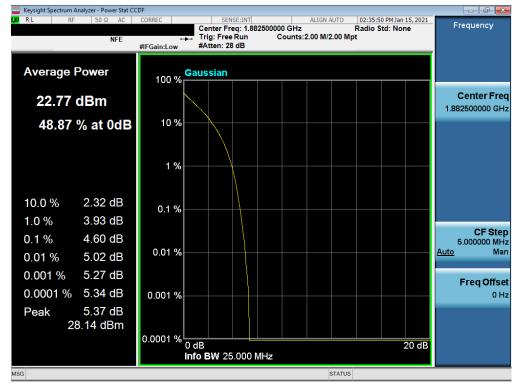


Plot 7-161. PAR Plot (CDMA, Ch. 600)

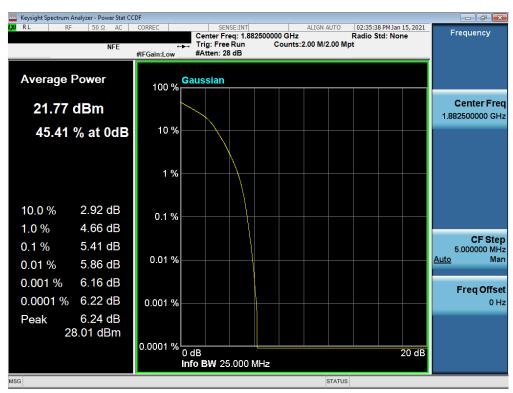
| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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LTE Band 25/2



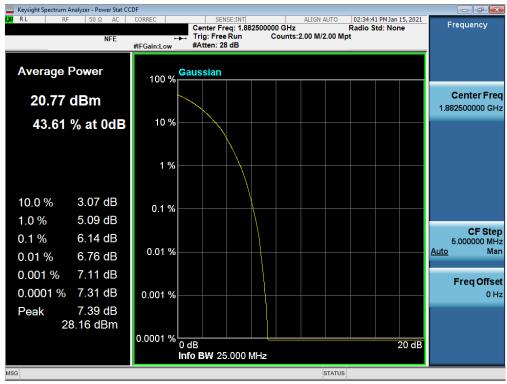
Plot 7-162. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)



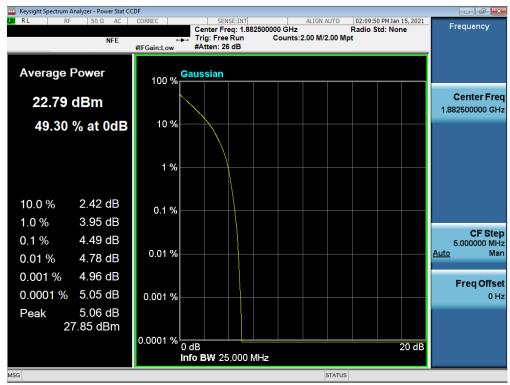
Plot 7-163. PAR Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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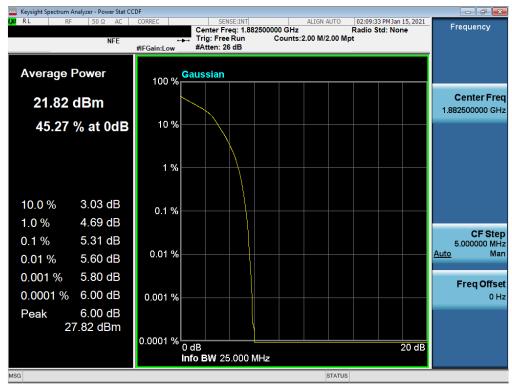
Plot 7-164. PAR Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB Configuration)



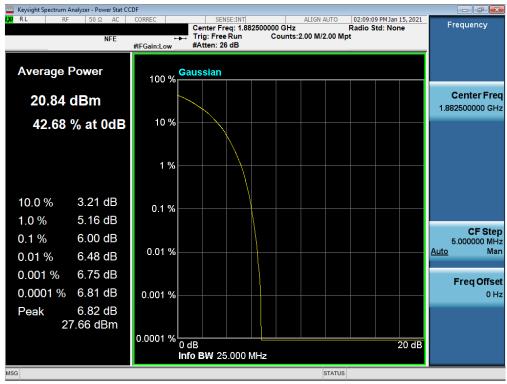
Plot 7-165. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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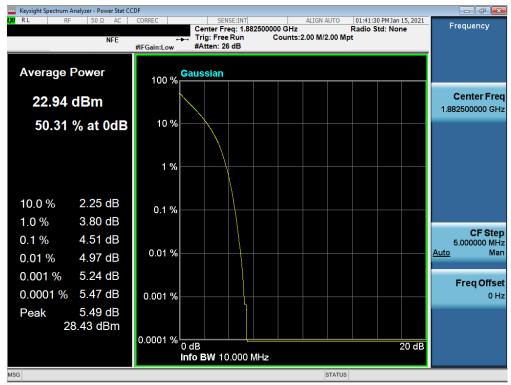
Plot 7-166. PAR Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)



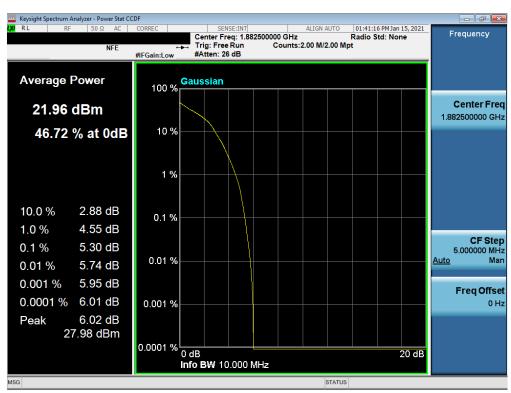
Plot 7-167. PAR Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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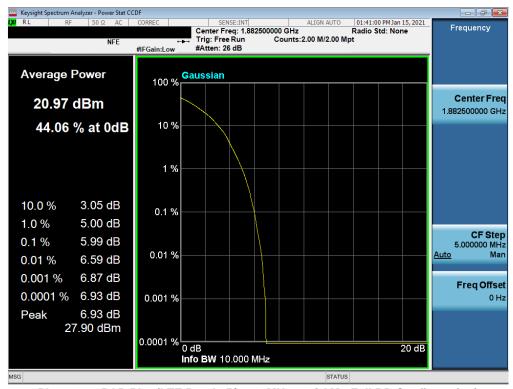
Plot 7-168. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)



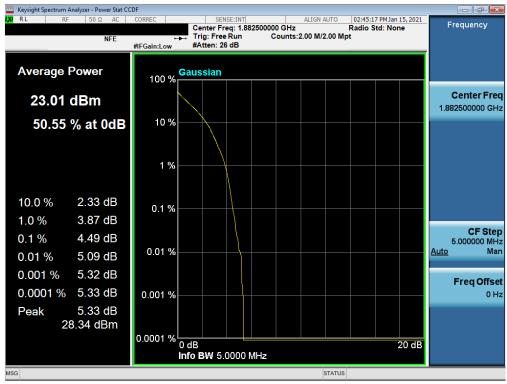
Plot 7-169. PAR Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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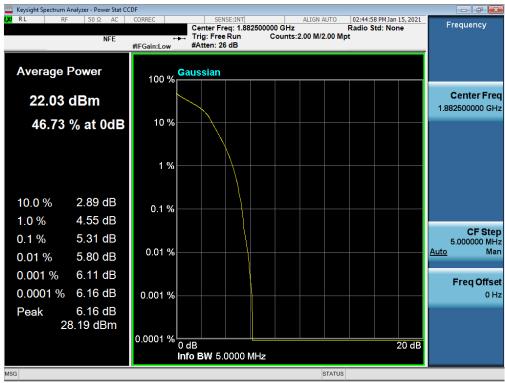
Plot 7-170. PAR Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB Configuration)



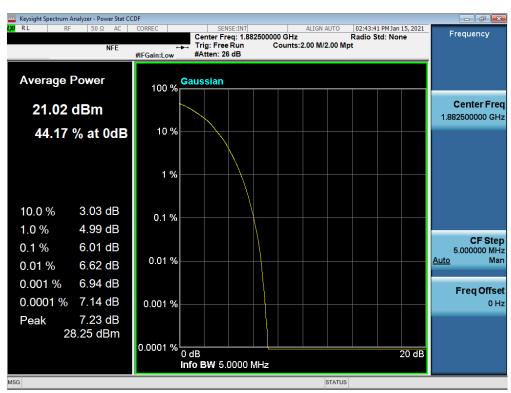
Plot 7-171. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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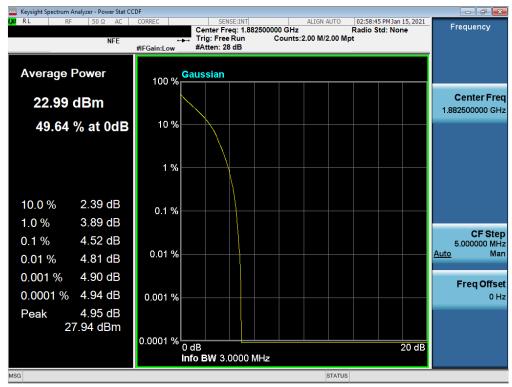
Plot 7-172. PAR Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)



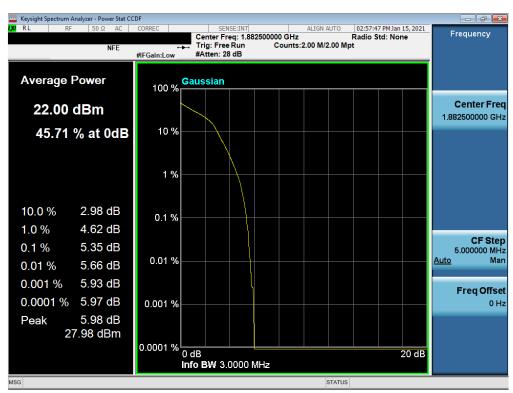
Plot 7-173. PAR Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-174. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)



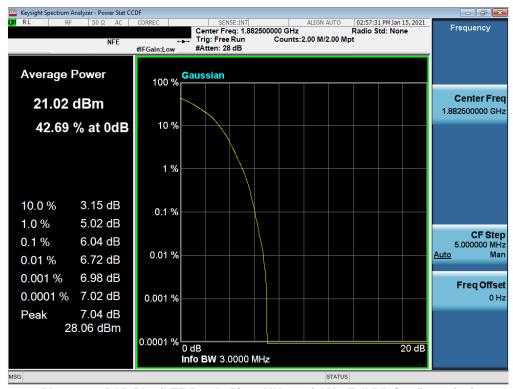
Plot 7-175. PAR Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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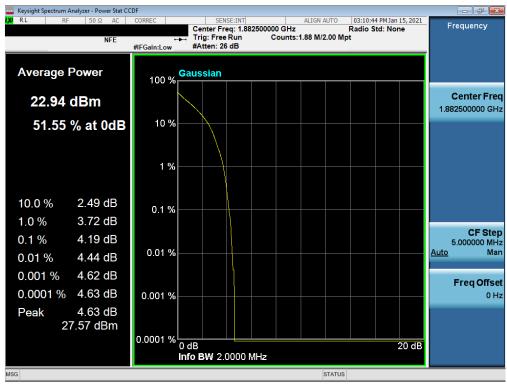
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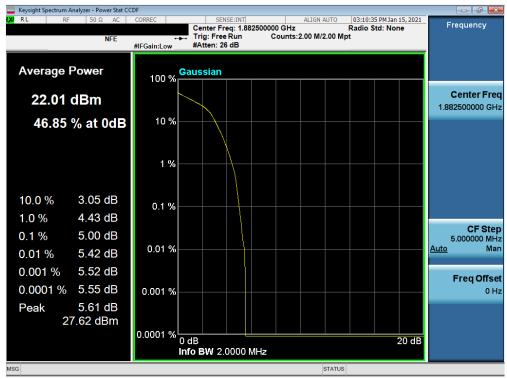
Plot 7-176. PAR Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB Configuration)



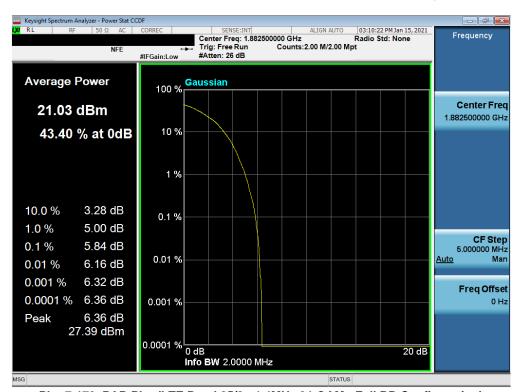
Plot 7-177. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-178. PAR Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

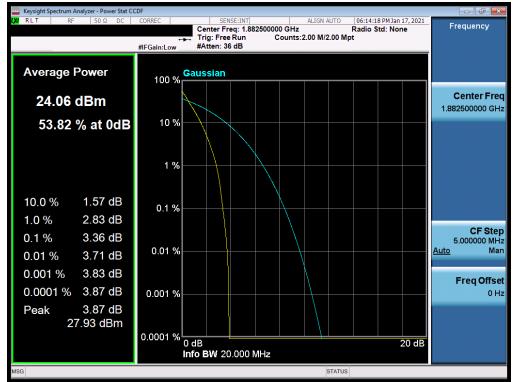


Plot 7-179. PAR Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)

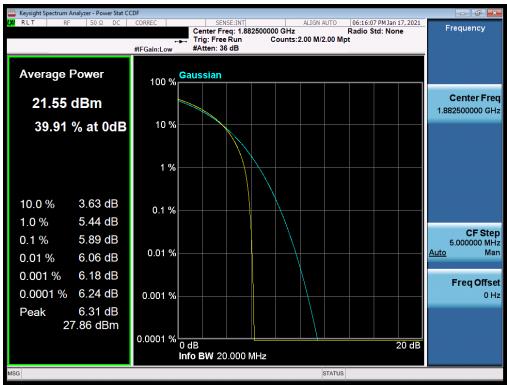
| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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NR Band n25/n2



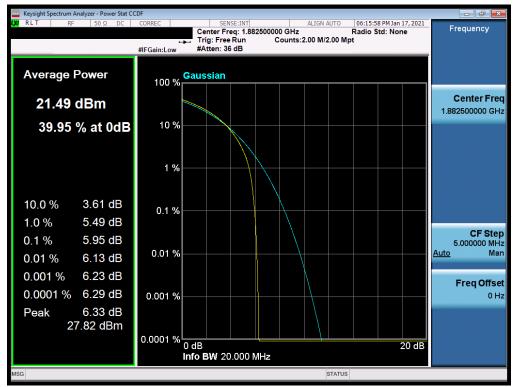
Plot 7-180. PAR Plot (NR Band n25/2- 20.0MHz DFT-s-OFDM BPSK - Full RB)



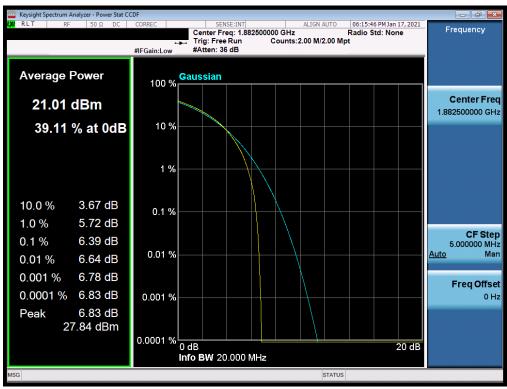
Plot 7-181. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM QPSK - Full RB)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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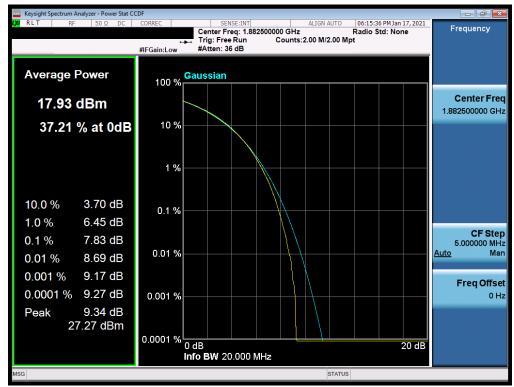
Plot 7-182. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM 16-QAM - Full RB)



Plot 7-183. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM 64-QAM - Full RB)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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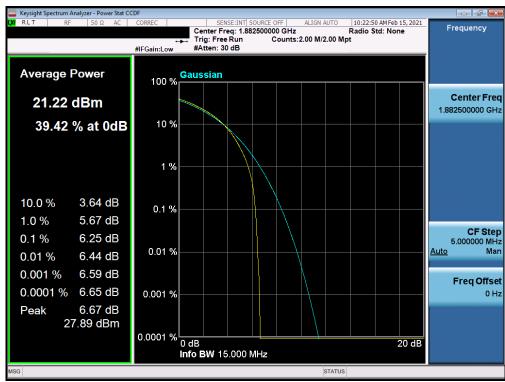
Plot 7-184. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-185. PAR Plot (NR Band n25/2- 15.0MHz DFT-s-OFDM BPSK - Full RB)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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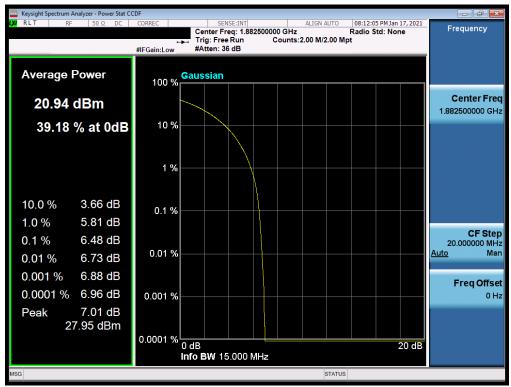
Plot 7-186. PAR Plot (NR Band n25/2-15.0MHz CP-OFDM QPSK - Full RB)



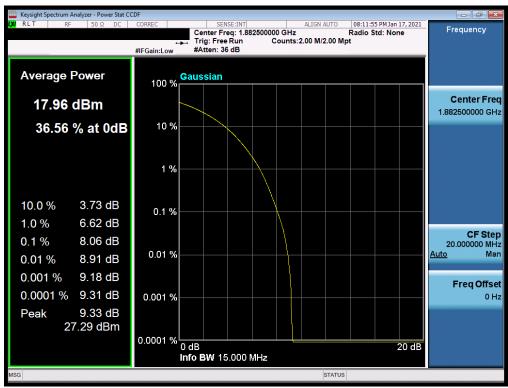
Plot 7-187. PAR Plot (NR Band n25/2-15.0MHz CP-OFDM 16-QAM - Full RB)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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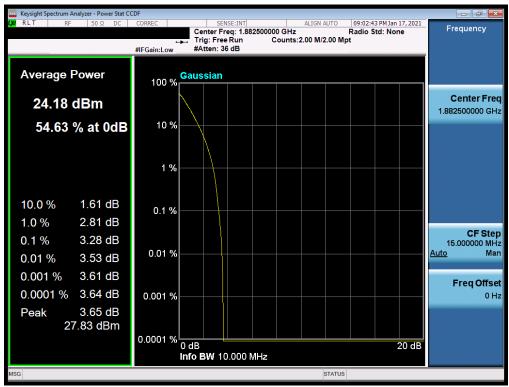
Plot 7-188. PAR Plot (NR Band n25/2-15.0MHz CP-OFDM 64-QAM - Full RB)



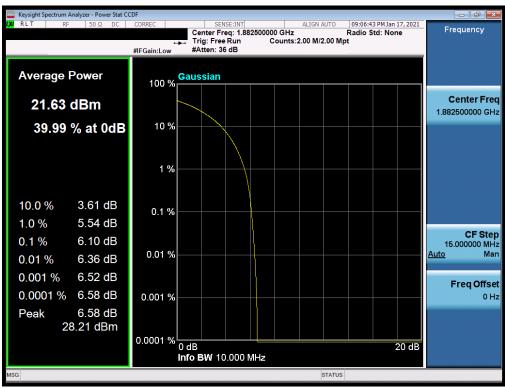
Plot 7-189. PAR Plot (NR Band n25/2- 15.0MHz CP-OFDM 256-QAM - Full RB)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-190. PAR Plot (NR Band n25/2- 10.0MHz DFT-s-OFDM BPSK - Full RB)

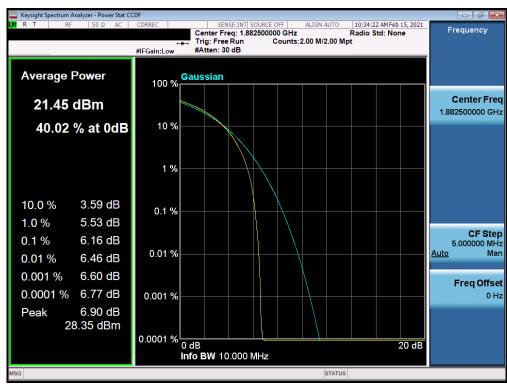


Plot 7-191. PAR Plot (NR Band n25/2- 10.0MHz CP-OFDM QPSK - Full RB)

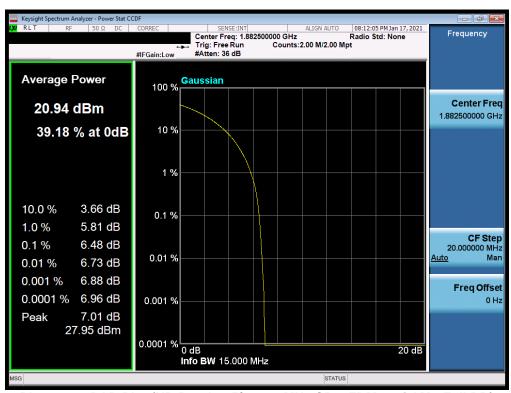
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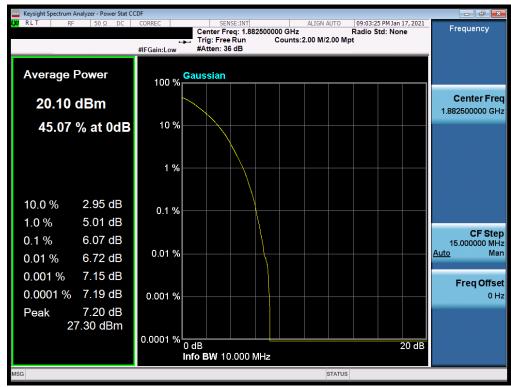
Plot 7-192. PAR Plot (NR Band n25/2-10.0MHz CP-OFDM 16-QAM - Full RB)



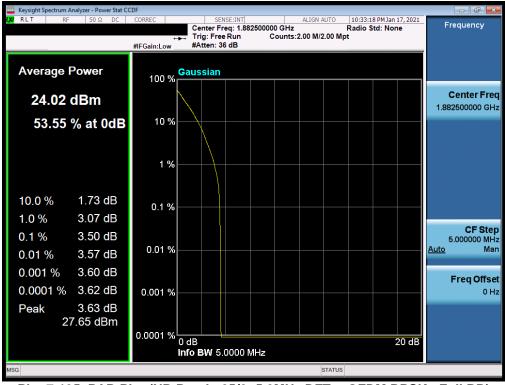
Plot 7-193. PAR Plot (NR Band n25/2-10.0MHz CP-OFDM 64-QAM - Full RB)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager | |
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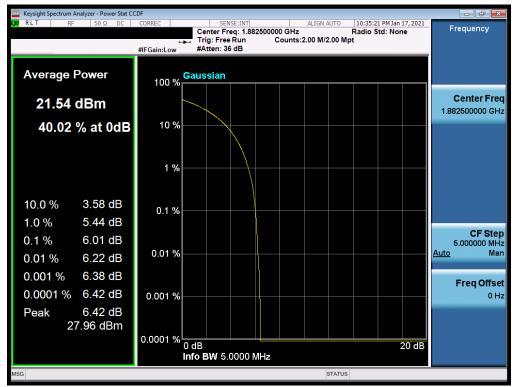
Plot 7-194. PAR Plot (NR Band n25/2- 10.0MHz CP-OFDM 256-QAM - Full RB)



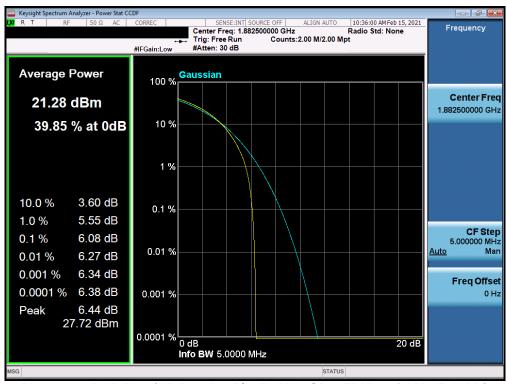
Plot 7-195. PAR Plot (NR Band n25/2- 5.0MHz DFT-s-OFDM BPSK - Full RB)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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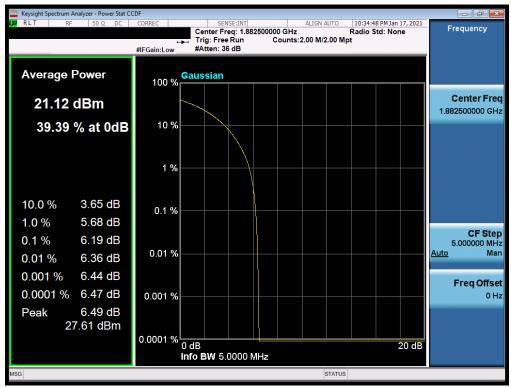
Plot 7-196. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM QPSK - Full RB)



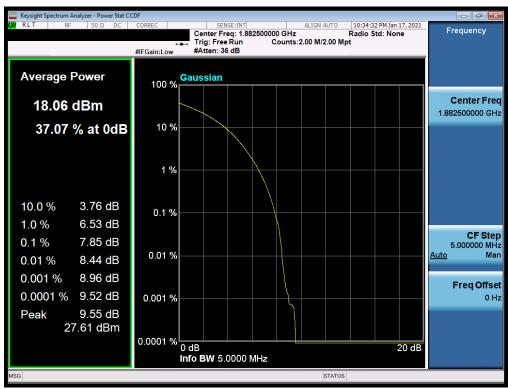
Plot 7-197. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM 16-QAM - Full RB)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
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Plot 7-198. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM 64-QAM - Full RB)



Plot 7-199. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM 256-QAM - Full RB)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|--------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 121 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Faye 121 01 140 |

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7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.2.1

ANSI/TIA-603-E-2016 - Section 2.2.17

Test Settings

- 1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW ≥ 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points \geq 2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize

| FCC ID: A3LSMA426U | Protest* Proud to be part of element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|---------------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 122 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Fage 122 01 140 |



Test Setup

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

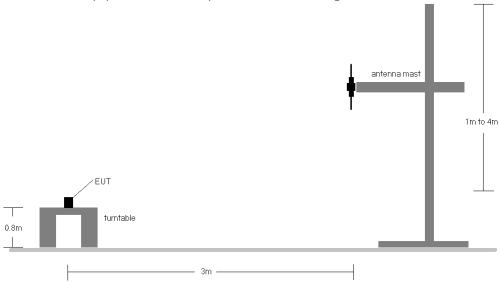


Figure 7-5. Radiated Test Setup <1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) This device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery.
- 6) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 7) 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: A3LSMA426U | Proud to be part of @ element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|-------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 123 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Fage 123 01 140 |



| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|----------|--------------------|---------------------------|----------------------------------|------------------------------|--------------------|---------------|-----------------|---------------------|----------------|
| 1850.20 | GPRS1900 | Н | 116 | 346 | 18.46 | 9.51 | 27.97 | 0.626 | 33.01 | -5.04 |
| 1880.00 | GPRS1900 | Н | 112 | 351 | 18.54 | 9.93 | 28.47 | 0.702 | 33.01 | -4.54 |
| 1909.80 | GPRS1900 | Н | 100 | 346 | 18.53 | 10.28 | 28.81 | 0.760 | 33.01 | -4.20 |
| 1909.80 | GPRS1900 | V | 226 | 102 | 17.70 | 10.34 | 28.04 | 0.637 | 33.01 | -4.97 |
| 1909.80 | EDGE1900 | Н | 100 | 346 | 15.05 | 10.28 | 25.33 | 0.341 | 33.01 | -7.68 |

Table 7-2. EIRP Data (GPRS PCS)

| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|-----------|--------------------|---------------------------|----------------------------------|------------------------------|--------------------|---------------|-----------------|---------------------|----------------|
| 1852.40 | WCDMA1900 | Н | 153 | 358 | 12.86 | 9.54 | 22.40 | 0.174 | 33.01 | -10.61 |
| 1880.00 | WCDMA1900 | Н | 148 | 338 | 13.15 | 9.93 | 23.08 | 0.203 | 33.01 | -9.93 |
| 1907.60 | WCDMA1900 | Н | 148 | 11 | 11.39 | 10.26 | 21.65 | 0.146 | 33.01 | -11.36 |
| 1880.00 | WCDMA1900 | V | 204 | 337 | 12.88 | 10.13 | 23.01 | 0.200 | 33.01 | -10.00 |

Table 7-3. EIRP Data (WCDMA PCS)

| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|----------|--------------------|---------------------------|----------------------------------|------------------------------|--------------------|---------------|-----------------|---------------------|----------------|
| 1851.25 | CDMA1900 | Н | 246 | 346 | 11.79 | 9.52 | 21.31 | 0.135 | 33.01 | -11.70 |
| 1880.00 | CDMA1900 | Н | 100 | 358 | 11.67 | 9.93 | 21.60 | 0.144 | 33.01 | -11.41 |
| 1908.75 | CDMA1900 | Н | 101 | 369 | 9.99 | 10.27 | 20.26 | 0.106 | 33.01 | -12.75 |
| 1880.00 | CDMA1900 | V | 115 | 364 | 10.06 | 9.93 | 19.99 | 0.100 | 33.01 | -13.02 |

Table 7-4. EIRP Data (CDMA PCS)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager | |
|------------------------|-------------------------------|----------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 124 of 148 | |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Fage 124 01 140 | |



| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | EUT Pol. | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|---------------|--------------------|--------------------|----------|---------------------------|----------------------------------|--------------------|-------------------|------------------------------|---------------|-----------------|---------------------|----------------|
| | | 1860.0 | Н | Z | 115 | 11 | 9.64 | 1 / 50 | 12.61 | 22.25 | 0.168 | 33.01 | -10.76 |
| 20 MHz | QPSK | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/0 | 12.43 | 22.39 | 0.173 | 33.01 | -10.62 |
| Σ | | 1905.0 | Н | Z | 117 | 362 | 10.24 | 1/0 | 11.00 | 21.24 | 0.133 | 33.01 | -11.77 |
| 20 | 16-QAM | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/0 | 12.05 | 22.01 | 0.159 | 33.01 | -11.00 |
| | 64-QAM | 1860.0 | Н | Z | 115 | 11 | 9.64 | 1 / 50 | 11.24 | 20.88 | 0.123 | 33.01 | -12.13 |
| | | 1857.5 | Н | Z | 115 | 11 | 9.61 | 1 / 36 | 12.55 | 22.15 | 0.164 | 33.01 | -10.86 |
| MHz | QPSK | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1 / 74 | 12.10 | 22.06 | 0.161 | 33.01 | -10.95 |
| Σ | | 1907.5 | Н | Z | 117 | 362 | 10.26 | 1/0 | 10.51 | 20.77 | 0.119 | 33.01 | -12.24 |
| 15 | 16-QAM | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1 / 74 | 12.10 | 22.06 | 0.161 | 33.01 | -10.95 |
| | 64-QAM | 1857.5 | Н | Z | 115 | 11 | 9.61 | 1 / 36 | 10.98 | 20.58 | 0.114 | 33.01 | -12.43 |
| | | 1855.0 | Н | Z | 115 | 11 | 9.57 | 1 / 25 | 12.62 | 22.19 | 0.166 | 33.01 | -10.82 |
| 10 MHz | QPSK | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1 / 25 | 12.12 | 22.08 | 0.161 | 33.01 | -10.93 |
| Σ | | 1910.0 | Н | Z | 117 | 362 | 10.28 | 1 / 49 | 10.53 | 20.81 | 0.121 | 33.01 | -12.20 |
| 10 | 16-QAM | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1 / 25 | 11.91 | 21.87 | 0.154 | 33.01 | -11.14 |
| | 64-QAM | 1855.0 | Н | Z | 115 | 11 | 9.57 | 1 / 25 | 11.14 | 20.71 | 0.118 | 33.01 | -12.30 |
| | | 1852.5 | Н | Z | 115 | 11 | 9.54 | 1 / 24 | 12.76 | 22.29 | 0.170 | 33.01 | -10.72 |
| 4 | QPSK | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/0 | 11.98 | 21.94 | 0.156 | 33.01 | -11.07 |
| MHz | | 1912.5 | Н | Z | 117 | 362 | 10.30 | 1 / 12 | 10.54 | 20.84 | 0.121 | 33.01 | -12.17 |
| 2 | 16-QAM | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/0 | 11.68 | 21.64 | 0.146 | 33.01 | -11.37 |
| | 64-QAM | 1852.5 | Н | Z | 115 | 11 | 9.54 | 1 / 24 | 11.24 | 20.77 | 0.120 | 33.01 | -12.24 |
| | | 1851.5 | Н | Z | 115 | 11 | 9.52 | 1/0 | 12.77 | 22.29 | 0.170 | 33.01 | -10.72 |
| Ţ | QPSK | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/7 | 12.01 | 21.97 | 0.157 | 33.01 | -11.04 |
| MHz | | 1913.5 | Н | Z | 117 | 362 | 10.31 | 1 / 14 | 10.52 | 20.83 | 0.121 | 33.01 | -12.18 |
| ဗ | 16-QAM | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/0 | 11.66 | 21.62 | 0.145 | 33.01 | -11.39 |
| | 64-QAM | 1851.5 | Н | Z | 115 | 11 | 9.52 | 1 / 14 | 11.27 | 20.79 | 0.120 | 33.01 | -12.22 |
| | | 1850.7 | Н | Z | 115 | 11 | 9.51 | 1/2 | 12.72 | 22.23 | 0.167 | 33.01 | -10.78 |
| 1.4 MHz | QPSK | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/0 | 12.08 | 22.04 | 0.160 | 33.01 | -10.97 |
| ≥ | | 1914.3 | Н | Z | 117 | 362 | 10.32 | 1/0 | 10.60 | 20.91 | 0.123 | 33.01 | -12.10 |
| 1.4 | 16-QAM | 1882.5 | Н | Z | 154 | 5 | 9.96 | 1/2 | 11.75 | 21.71 | 0.148 | 33.01 | -11.30 |
| | 64-QAM | 1850.7 | Н | Z | 115 | 11 | 9.51 | 1/5 | 11.10 | 20.61 | 0.115 | 33.01 | -12.40 |
| 20 MHz | Opposite Pol. | 1882.5 | V | Y | 100 | 61 | 10.15 | 1/0 | 11.76 | 21.91 | 0.155 | 33.01 | -11.10 |

Table 7-5. EIRP Data (LTE Band 25/2)

| FCC ID: A3LSMA426U | PCTEST* Proud to be part of @ element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|---------------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 125 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Faye 123 01 146 |



| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | EUT Pol. | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|--------------|----------------------|--------------------|--------------------|----------|---------------------------|----------------------------------|--------------------|-------------------|------------------------------|---------------|-----------------|---------------------|----------------|
| | | 1860.0 | Н | Z | 100 | 348 | 9.64 | 1 / 53 | 11.46 | 21.10 | 0.129 | 33.01 | -11.91 |
| | π/2 BPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 104 | 11.55 | 21.51 | 0.142 | 33.01 | -11.50 |
| | | 1905.0 | Н | Z | 152 | 354 | 10.24 | 1/1 | 11.45 | 21.69 | 0.148 | 33.01 | -11.32 |
| | | 1860.0 | Н | Z | 100 | 348 | 9.64 | 1 / 53 | 11.34 | 20.98 | 0.125 | 33.01 | -12.03 |
| 20 MHz | QPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1/1 | 11.54 | 21.50 | 0.141 | 33.01 | -11.51 |
| | | 1905.0 | Н | Z | 152 | 354 | 10.24 | 1 / 53 | 11.49 | 21.73 | 0.149 | 33.01 | -11.28 |
| | 16-QAM | 1905.0 | Н | Z | 152 | 354 | 10.24 | 1 / 53 | 10.13 | 20.37 | 0.109 | 33.01 | -12.64 |
| | 64-QAM | 1905.0 | Н | Z | 152 | 354 | 10.24 | 1 / 53 | 9.09 | 19.33 | 0.086 | 33.01 | -13.68 |
| | 256-QAM | 1905.0 | Н | Z | 152 | 354 | 10.24 | 1/1 | 7.07 | 17.31 | 0.054 | 33.01 | -15.70 |
| | | 1857.5 | Н | Z | 100 | 348 | 9.61 | 1 / 77 | 11.00 | 20.60 | 0.115 | 33.01 | -12.41 |
| | π/2 BPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 77 | 11.26 | 21.22 | 0.132 | 33.01 | -11.79 |
| | | 1907.5 | Н | Z | 152 | 354 | 10.26 | 1/1 | 10.86 | 21.12 | 0.130 | 33.01 | -11.89 |
| | | 1857.5 | Н | Z | 100 | 348 | 9.61 | 1 / 77 | 10.91 | 20.51 | 0.113 | 33.01 | -12.50 |
| 15 MHz | QPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 77 | 11.52 | 21.48 | 0.141 | 33.01 | -11.53 |
| | | 1907.5 | Н | Z | 152 | 354 | 10.26 | 1/1 | 11.30 | 21.56 | 0.143 | 33.01 | -11.45 |
| | 16-QAM 64-QAM | 1907.5 | Н | Z | 152 | 354 | 10.26 | 1/1 | 9.89 | 20.15 | 0.104 | 33.01 | -12.86 |
| | | 1907.5 | Н | Z | 152 | 354 | 10.26 | 1/1 | 9.09 | 19.35 | 0.086 | 33.01 | -13.66 |
| | 256-QAM | 1907.5 | Н | Z | 152 | 354 | 10.26 | 1/1 | 6.78 | 17.04 | 0.051 | 33.01 | -15.97 |
| | | 1855.0 | Н | Z | 100 | 348 | 9.57 | 1 / 26 | 11.06 | 20.63 | 0.116 | 33.01 | -12.38 |
| | π/2 BPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 26 | 11.22 | 21.18 | 0.131 | 33.01 | -11.83 |
| | | 1910.0 | Н | Z | 152 | 354 | 10.28 | 1/1 | 10.98 | 21.26 | 0.134 | 33.01 | -11.75 |
| | | 1855.0 | Н | Z | 100 | 348 | 9.57 | 1 / 50 | 11.25 | 20.82 | 0.121 | 33.01 | -12.19 |
| 10 MHz | QPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 26 | 11.77 | 21.73 | 0.149 | 33.01 | -11.28 |
| | | 1910.0 | Н | Z | 152 | 354 | 10.28 | 1/1 | 11.62 | 21.90 | 0.155 | 33.01 | -11.11 |
| | 16-QAM | 1910.0 | Н | Z | 152 | 354 | 10.28 | 1/1 | 9.52 | 19.80 | 0.096 | 33.01 | -13.21 |
| | 64-QAM | 1910.0 | Н | Z | 152 | 354 | 10.28 | 1 / 26 | 9.23 | 19.51 | 0.089 | 33.01 | -13.50 |
| | 256-QAM | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 51 | 7.19 | 17.15 | 0.052 | 33.01 | -15.86 |
| | | 1852.5 | Н | Z | 100 | 348 | 9.54 | 1 / 23 | 11.30 | 20.83 | 0.121 | 33.01 | -12.18 |
| | π/2 BPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1 / 13 | 11.59 | 21.55 | 0.143 | 33.01 | -11.46 |
| | | 1912.5 | Н | Z | 152 | 354 | 10.30 | 1 / 23 | 10.92 | 21.22 | 0.133 | 33.01 | -11.79 |
| | | 1852.5 | Н | Z | 100 | 348 | 9.54 | 1 / 13 | 11.19 | 20.72 | 0.118 | 33.01 | -12.29 |
| 5 MHz | QPSK | 1882.5 | Н | Z | 107 | 352 | 9.96 | 1/1 | 11.71 | 21.67 | 0.147 | 33.01 | -11.34 |
| | | 1912.5 | Н | Z | 152 | 354 | 10.30 | 1/1 | 11.34 | 21.64 | 0.146 | 33.01 | -11.37 |
| | 16-QAM | 1912.5 | Н | Z | 152 | 354 | 10.30 | 1/1 | 9.68 | 19.98 | 0.100 | 33.01 | -13.03 |
| | 64-QAM | 1912.5 | Н | Z | 152 | 354 | 10.30 | 1 / 13 | 8.92 | 19.22 | 0.084 | 33.01 | -13.79 |
| | 256-QAM | 1912.5 | Н | Z | 152 | 354 | 10.30 | 1/1 | 6.93 | 17.23 | 0.053 | 33.01 | -15.78 |
| 20 MH- | QPSK (CP-OFDM) | 1905.0 | Н | Z | 147 | 350 | 10.24 | 1 / 50 | 10.00 | 20.24 | 0.106 | 33.01 | -12.77 |
| 20 MHz ` ` ´ | QPSK (Opposite Pol.) | 1905.0 | V | Y | 126 | 29 | 10.24 | 1 / 50 | 11.07 | 21.31 | 0.135 | 33.01 | -11.70 |

Table 7-6. EIRP Data (NR Band n25/2)

| FCC ID: A3LSMA426U | PCTEST* Proud to be part of @ element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager | |
|------------------------|---------------------------------------|----------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 126 of 148 | |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Page 126 01 148 | |



7.7 **Radiated Spurious Emissions Measurements**

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.8

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW ≥ 3 x RBW
- Span = 1.5 times the OBW
- 4. No. of sweep points > 2 x span / RBW
- Detector = RMS
- Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|-------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 127 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Fage 127 01 140 |



Test Setup

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

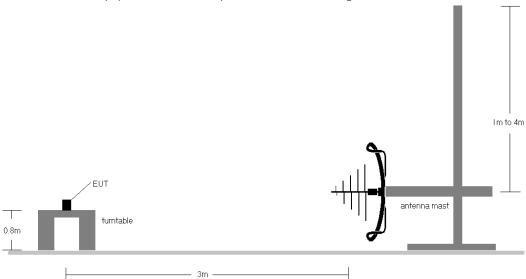


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

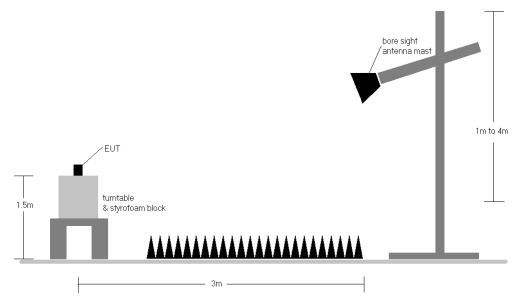


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

| FCC ID: A3LSMA426U | Protest* Proud to be part of element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|---------------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 128 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Fage 120 01 140 |



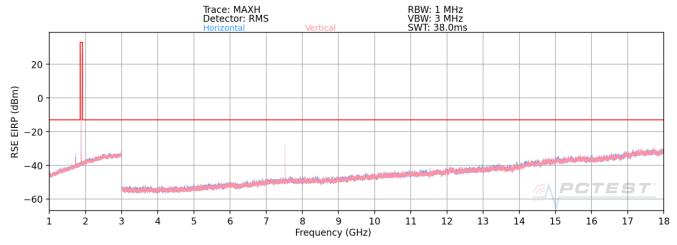
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b) EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) For CDMA, this device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 5) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 6) This unit was tested with its standard battery.
- 7) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 8) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 9) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 10) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 11) 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.
- 12) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

| FCC ID: A3LSMA426U | Protest* Proud to be part of ® element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|--|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 129 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Faye 129 01 140 |



GSM/GPRS PCS



Plot 7-200. Radiated Spurious Plot (GPRS PCS)

| Mode: | GPRS 1 Tx Slot |
|------------------|----------------|
| Channel: | 512 |
| Frequency (MHz): | 1850.2 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3700.4 | Н | 387 | 355 | -72.09 | 2.47 | 37.38 | -57.87 | -13.00 | -44.87 |
| 5550.6 | Н | 276 | 326 | -67.87 | 4.70 | 43.83 | -51.42 | -13.00 | -38.42 |
| 7400.8 | Н | 141 | 27 | -49.47 | 9.53 | 67.06 | -28.20 | -13.00 | -15.20 |
| 9251.0 | Н | 237 | 330 | -57.56 | 10.52 | 59.96 | -35.30 | -13.00 | -22.30 |
| 11101.2 | Н | 142 | 5 | -76.95 | 13.06 | 43.11 | -52.15 | -13.00 | -39.15 |
| 12951.4 | Н | 170 | 335 | -76.20 | 14.45 | 45.25 | -50.01 | -13.00 | -37.01 |
| 14801.6 | Н | - | - | -78.84 | 17.23 | 45.39 | -49.87 | -13.00 | -36.87 |
| 16651.8 | Н | 140 | 61 | -78.66 | 16.23 | 44.57 | -50.69 | -13.00 | -37.69 |

Table 7-7. Radiated Spurious Data (GPRS PCS - Low Channel)

| Mode: | GPRS 1 Tx Slot |
|------------------|----------------|
| Channel: | 661 |
| Frequency (MHz): | 1880 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3760.0 | Н | 366 | 322 | -69.97 | 2.78 | 39.81 | -55.45 | -13.00 | -42.45 |
| 5640.0 | Н | 158 | 331 | -69.58 | 5.01 | 42.43 | -52.83 | -13.00 | -39.83 |
| 7520.0 | Н | 112 | 21 | -46.41 | 9.28 | 69.87 | -25.39 | -13.00 | -12.39 |
| 9400.0 | Н | 240 | 321 | -62.62 | 11.92 | 56.30 | -38.96 | -13.00 | -25.96 |
| 11280.0 | Н | 113 | 357 | -69.67 | 12.92 | 50.25 | -45.01 | -13.00 | -32.01 |
| 13160.0 | Н | 192 | 339 | -74.74 | 14.64 | 46.90 | -48.36 | -13.00 | -35.36 |
| 15040.0 | Н | 168 | 345 | -67.20 | 16.22 | 56.02 | -39.24 | -13.00 | -26.24 |
| 16920.0 | Н | 173 | 49 | -75.20 | 16.53 | 48.33 | -46.93 | -13.00 | -33.93 |

Table 7-8. Radiated Spurious Data (GPRS PCS - Mid Channel)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|-------------------------------|----------------------------|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 130 of 148 |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Fage 130 01 146 |



| Mode: | GPRS 1 Tx Slot |
|------------------|----------------|
| Channel: | 810 |
| Frequency (MHz): | 1909.8 |

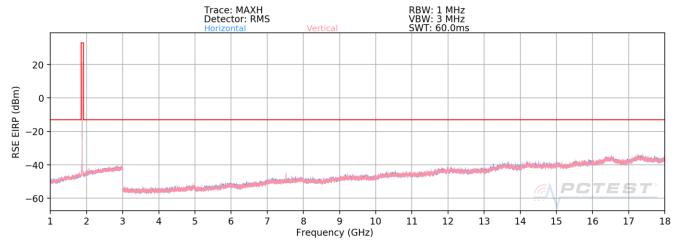
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3819.6 | Н | 257 | 315 | -72.07 | 2.45 | 37.38 | -57.87 | -13.00 | -44.87 |
| 5729.4 | Н | 172 | 324 | -68.70 | 4.65 | 42.95 | -52.31 | -13.00 | -39.31 |
| 7639.2 | Н | 115 | 24 | -45.15 | 9.80 | 71.65 | -23.60 | -13.00 | -10.60 |
| 9549.0 | Н | 118 | 26 | -63.99 | 11.27 | 54.28 | -40.98 | -13.00 | -27.98 |
| 11458.8 | Н | 126 | 352 | -66.15 | 12.93 | 53.78 | -41.48 | -13.00 | -28.48 |
| 13368.6 | Н | 173 | 332 | -75.34 | 14.99 | 46.65 | -48.61 | -13.00 | -35.61 |
| 15278.4 | Н | 117 | 344 | -62.27 | 14.91 | 59.64 | -35.62 | -13.00 | -22.62 |
| 17188.2 | Н | 116 | 40 | -75.81 | 18.16 | 49.35 | -45.91 | -13.00 | -32.91 |

Table 7-9. Radiated Spurious Data (GPRS PCS - High Channel)

| FCC ID: A3LSMA426U | Product to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|--------------------------------|----------------------------|-----------------------------------|
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WCDMA PCS



Plot 7-201. Radiated Spurious Plot (WCDMA PCS)

| Mode: | WCDMA RMC |
|------------------|-----------|
| Channel: | 9262 |
| Frequency (MHz): | 1852.4 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3704.8 | Н | - | - | -78.70 | 7.78 | 36.08 | -59.18 | -13.00 | -46.18 |
| 5557.2 | Н | - | - | -79.68 | 11.86 | 39.18 | -56.08 | -13.00 | -43.08 |
| 7409.6 | Н | 183 | 54 | -75.12 | 15.91 | 47.79 | -47.47 | -13.00 | -34.47 |
| 9262.0 | Н | - | - | 80.14 | 18.37 | 205.51 | 110.25 | -13.00 | 123.25 |
| 11114.4 | Н | - | - | -79.69 | 21.44 | 48.75 | -46.51 | -13.00 | -33.51 |

Table 7-10. Radiated Spurious Data (WCDMA PCS - Low Channel)

| Mode: | WCDMA RMC |
|------------------|-----------|
| Channel: | 9400 |
| Frequency (MHz): | 1880 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3760.0 | Н | - | - | -78.69 | 8.26 | 36.57 | -58.69 | -13.00 | -45.69 |
| 5640.0 | Н | - | - | -79.38 | 11.02 | 38.64 | -56.62 | -13.00 | -43.62 |
| 7520.0 | Н | 155 | 57 | -75.81 | 15.78 | 46.97 | -48.29 | -13.00 | -35.29 |
| 9400.0 | Н | - | - | -80.56 | 19.12 | 45.56 | -49.70 | -13.00 | -36.70 |
| 11280.0 | Н | - | - | -80.31 | 22.00 | 48.69 | -46.57 | -13.00 | -33.57 |

Table 7-11. Radiated Spurious Data (WCDMA PCS – Mid Channel)

| FCC ID: A3LSMA426U | Proud to be part of @element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager |
|------------------------|------------------------------|----------------------------|-----------------------------------|
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| Mode: | WCDMA RMC |
|------------------|-----------|
| Channel: | 9538 |
| Frequency (MHz): | 1907.6 |

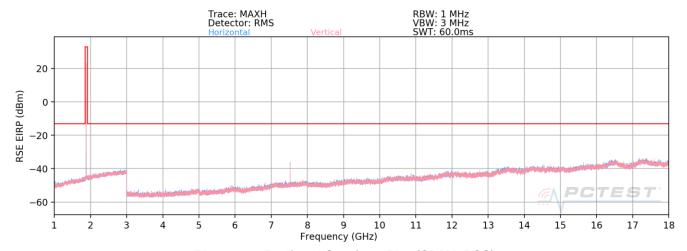
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3815.2 | Н | - | - | -78.40 | 8.51 | 37.11 | -58.14 | -13.00 | -45.14 |
| 5722.8 | Н | - | - | -79.43 | 12.05 | 39.62 | -55.64 | -13.00 | -42.64 |
| 7630.4 | Н | 174 | 51 | -75.26 | 16.54 | 48.28 | -46.97 | -13.00 | -33.97 |
| 9538.0 | Н | - | - | -80.55 | 18.31 | 44.76 | -50.50 | -13.00 | -37.50 |
| 11445.6 | Н | - | - | -79.90 | 22.11 | 49.21 | -46.05 | -13.00 | -33.05 |
| 13353.2 | Н | - | - | -79.76 | 25.16 | 52.40 | -42.86 | -13.00 | -29.86 |

Table 7-12. Radiated Spurious Data (WCDMA PCS – High Channel)

| FCC ID: A3LSMA426U | Protest* Proud to be part of element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager | |
|------------------------|---------------------------------------|----------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 133 of 148 | |
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CDMA PCS



Plot 7-202. Radiated Spurious Plot (CDMA PCS)

| Mode: | CDMA |
|------------------|---------|
| Channel: | 25 |
| Frequency (MHz): | 1851.25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3702.50 | Н | - | - | -80.79 | 7.82 | 34.03 | -61.22 | -13.00 | -48.22 |
| 5553.75 | Н | - | - | -81.44 | 11.74 | 37.30 | -57.96 | -13.00 | -44.96 |
| 7405.00 | Н | 165 | 53 | -67.93 | 15.93 | 55.00 | -40.25 | -13.00 | -27.25 |
| 9256.25 | Н | - | - | -82.85 | 18.24 | 42.39 | -52.87 | -13.00 | -39.87 |
| 11107.50 | Н | - | - | -84.22 | 21.49 | 44.27 | -50.99 | -13.00 | -37.99 |
| 12958.75 | Н | - | - | -84.79 | 24.58 | 46.79 | -48.47 | -13.00 | -35.47 |

Table 7-13. Radiated Spurious Data (CDMA PCS – Low Channel)

| Mode: | CDMA |
|------------------|------|
| Channel: | 600 |
| Frequency (MHz): | 1880 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3760.00 | Н | - | - | -80.53 | 8.26 | 34.73 | -60.53 | -13.00 | -47.53 |
| 5640.00 | Н | - | - | -80.55 | 11.02 | 37.47 | -57.79 | -13.00 | -44.79 |
| 7520.00 | Н | 172 | 53 | -68.33 | 15.78 | 54.45 | -40.81 | -13.00 | -27.81 |
| 9400.00 | Н | - | - | -83.65 | 19.12 | 42.47 | -52.79 | -13.00 | -39.79 |
| 11280.00 | Н | - | - | -84.62 | 22.00 | 44.38 | -50.88 | -13.00 | -37.88 |
| 13160.00 | Н | - | - | -85.24 | 24.79 | 46.55 | -48.71 | -13.00 | -35.71 |

Table 7-14. Radiated Spurious Data (CDMA PCS – Mid Channel)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager | |
|------------------------|-------------------------------|----------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 134 of 148 | |
| 1M2101040001-17-R1.A3L | 1/8 - 2/19/2021 | Portable Handset | Faye 134 01 140 | |



| Mode: | CDMA |
|------------------|---------|
| Channel: | 1175 |
| Frequency (MHz): | 1908.75 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3817.50 | Н | - | - | -80.86 | 8.58 | 34.72 | -60.54 | -13.00 | -47.54 |
| 5726.25 | Н | - | - | -81.61 | 12.26 | 37.65 | -57.61 | -13.00 | -44.61 |
| 7635.00 | Н | 252 | 48 | -68.48 | 16.53 | 55.05 | -40.21 | -13.00 | -27.21 |
| 9543.75 | Н | - | - | -84.13 | 18.63 | 41.50 | -53.76 | -13.00 | -40.76 |
| 11452.50 | Н | - | - | -84.23 | 22.29 | 45.06 | -50.20 | -13.00 | -37.20 |
| 13361.25 | Н | - | - | -84.79 | 25.39 | 47.60 | -47.66 | -13.00 | -34.66 |

Table 7-15. Radiated Spurious Data (CDMA PCS – High Channel)

| FCC ID: A3LSMA426U | Proud to be part of & element | PART 24 MEASUREMENT REPORT | Approved by: Technical Manager | |
|------------------------|-------------------------------|----------------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 135 of 148 | |
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