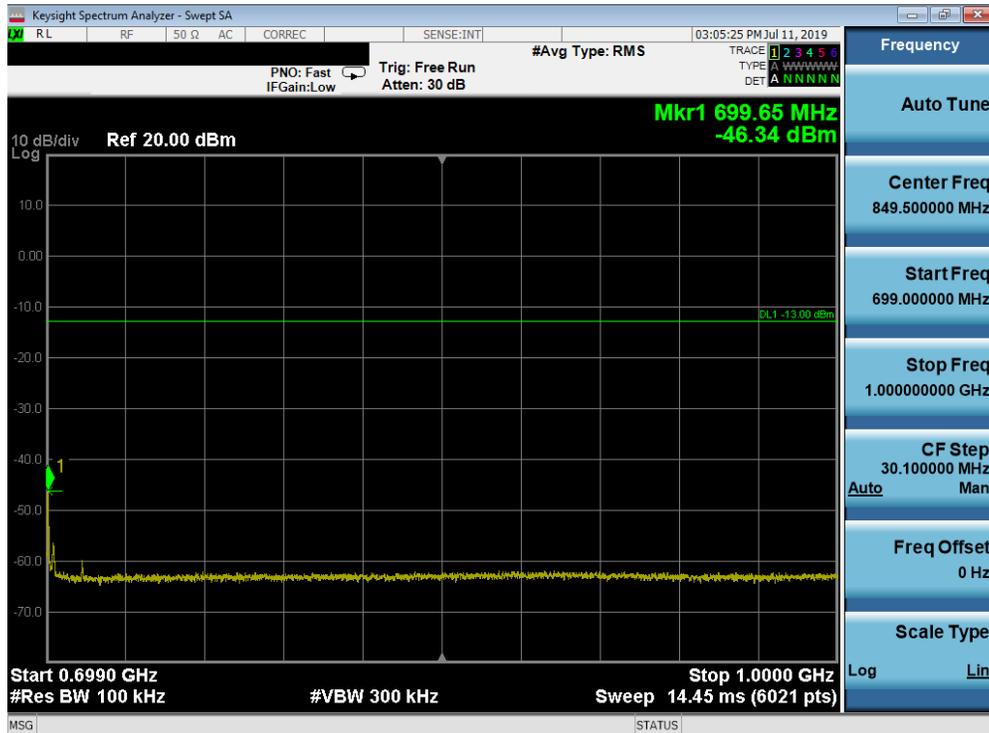
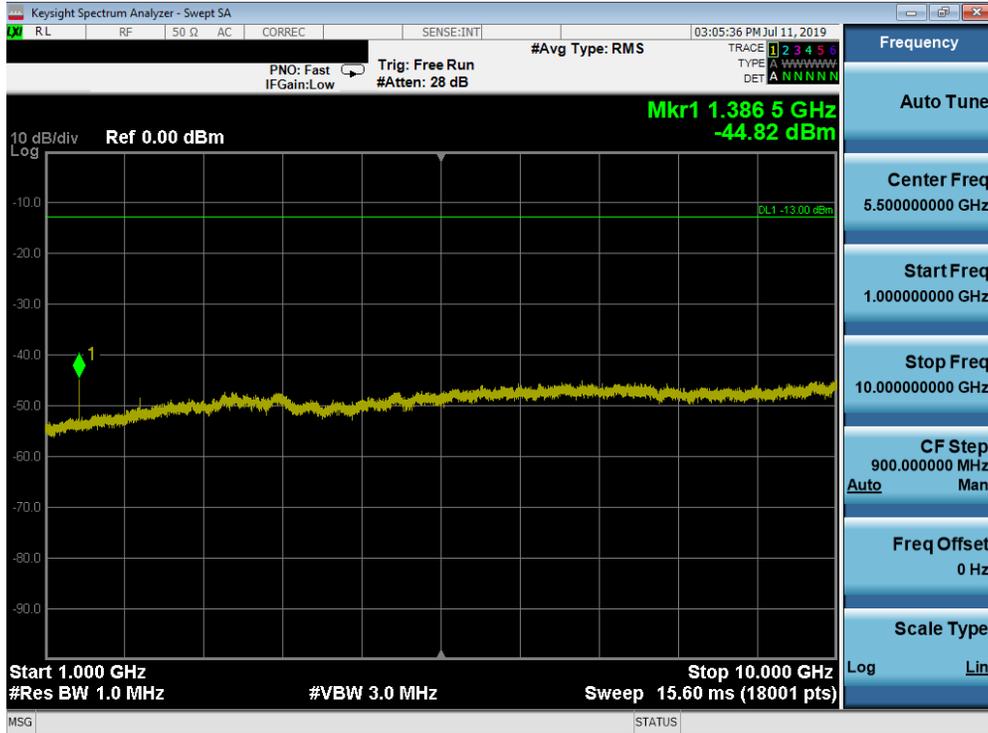


Plot 7-112. Conducted Spurious Plot (Band 71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-113. Conducted Spurious Plot (Band 71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

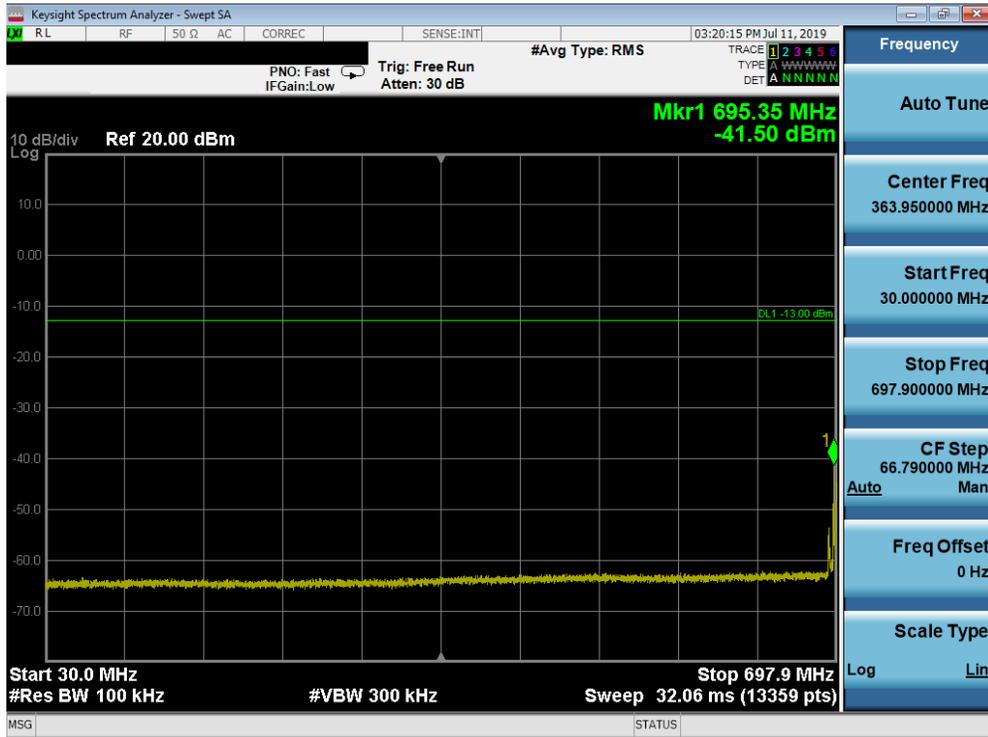
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 75 of 232 |



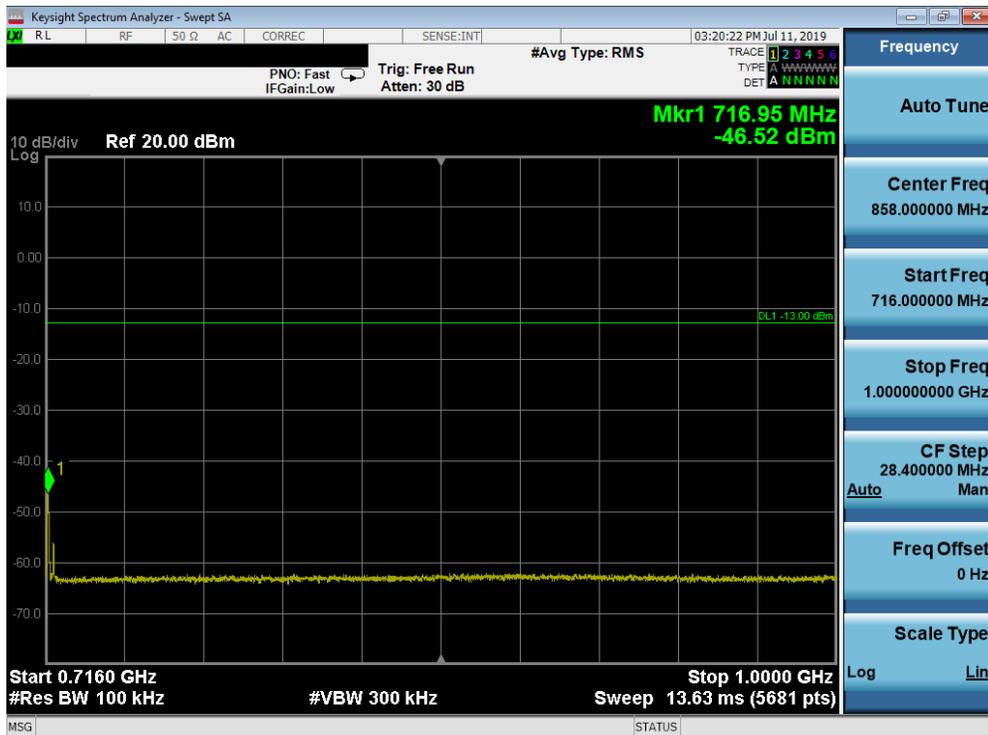
Plot 7-114. Conducted Spurious Plot (Band 71 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|---|------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | Page 76 of 232 | |

Band 12

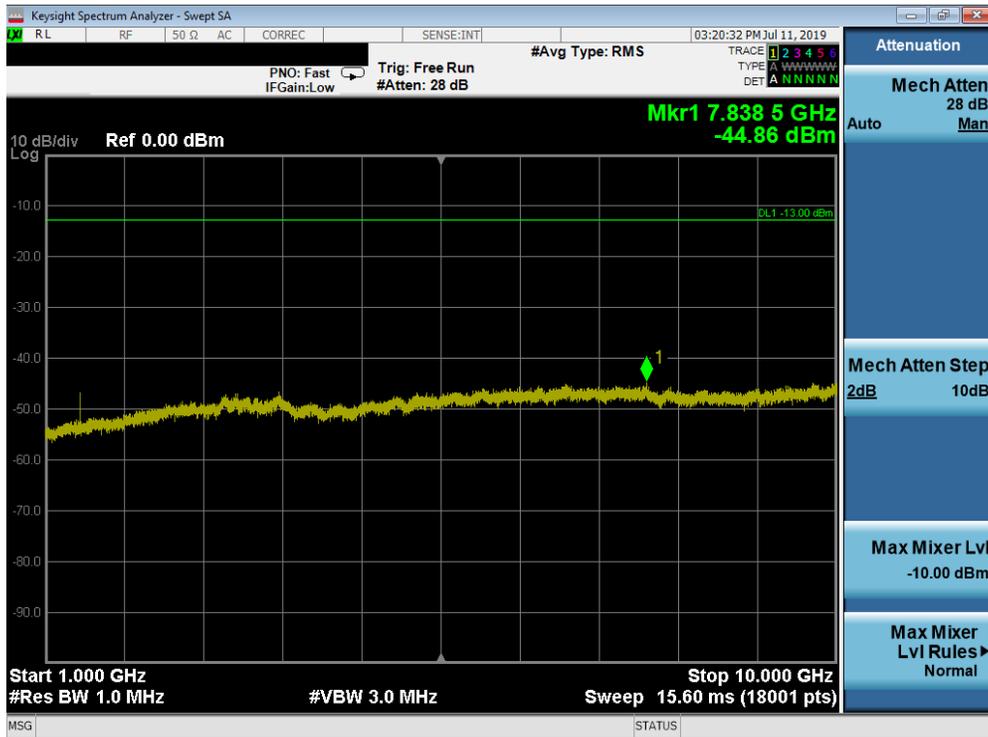


Plot 7-115. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

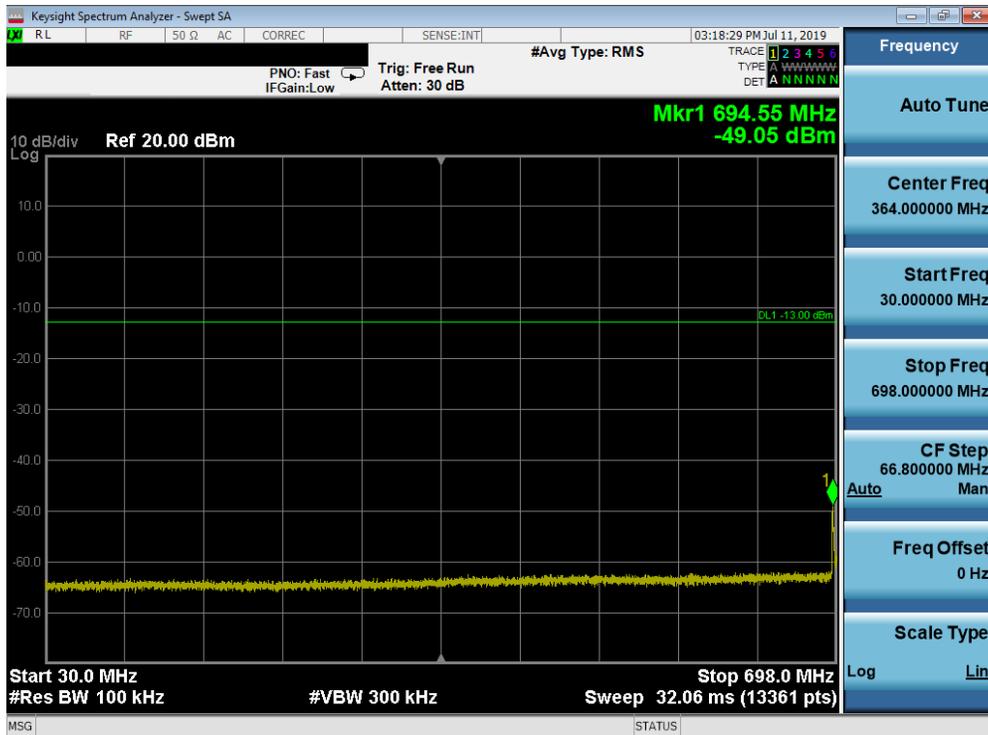


Plot 7-116. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 77 of 232 |

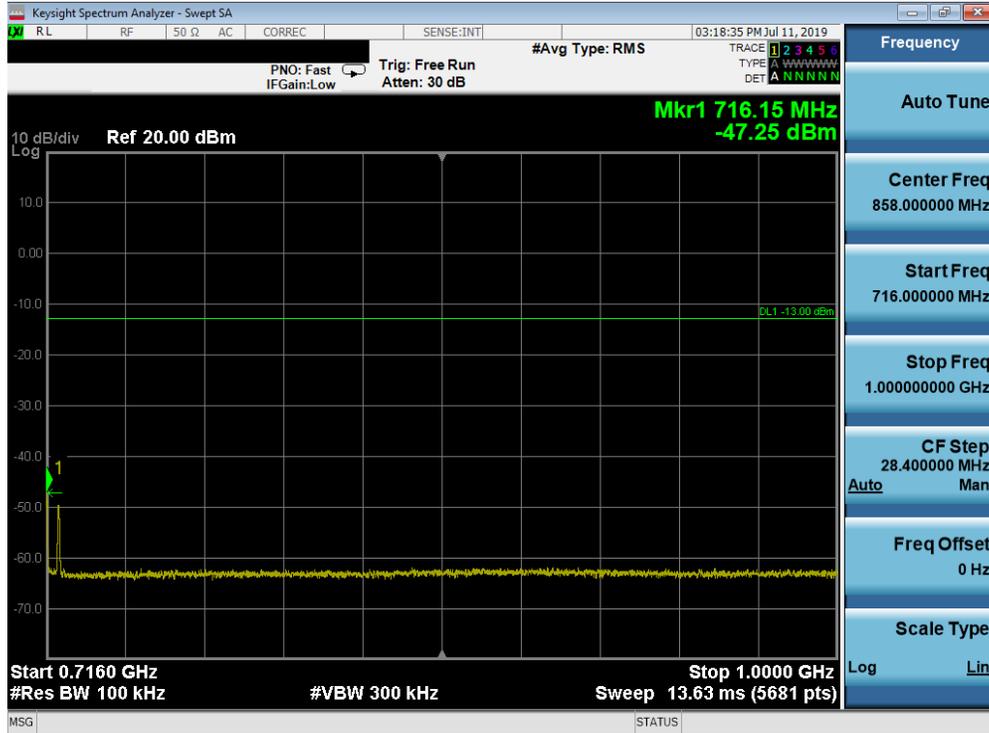


Plot 7-117. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

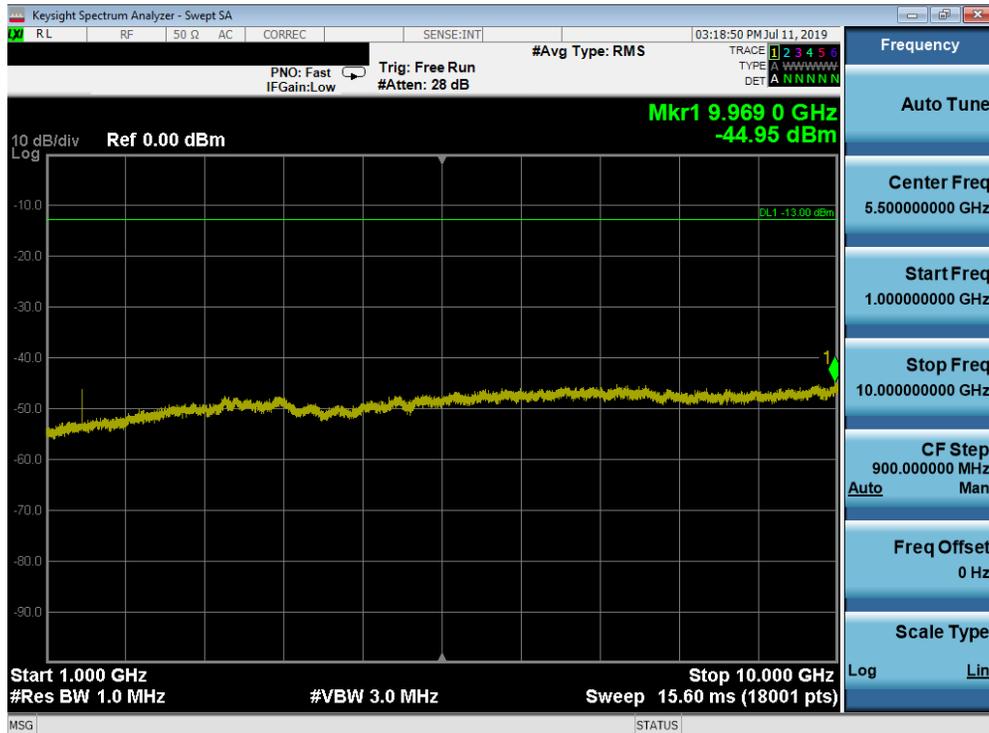


Plot 7-118. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 78 of 232 |

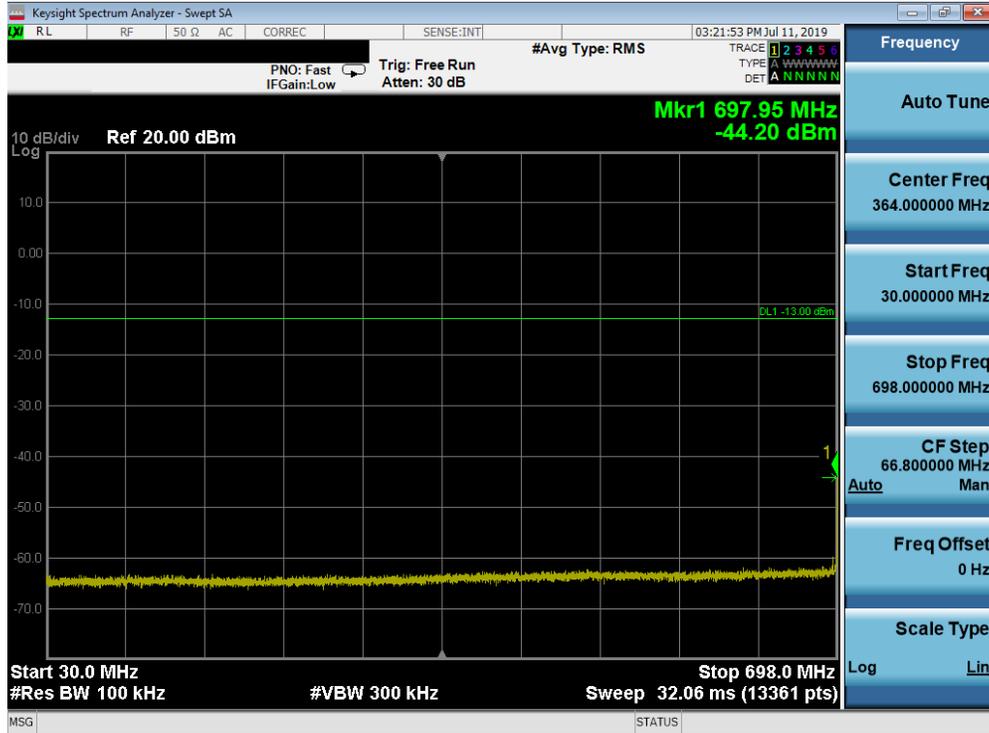


Plot 7-119. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

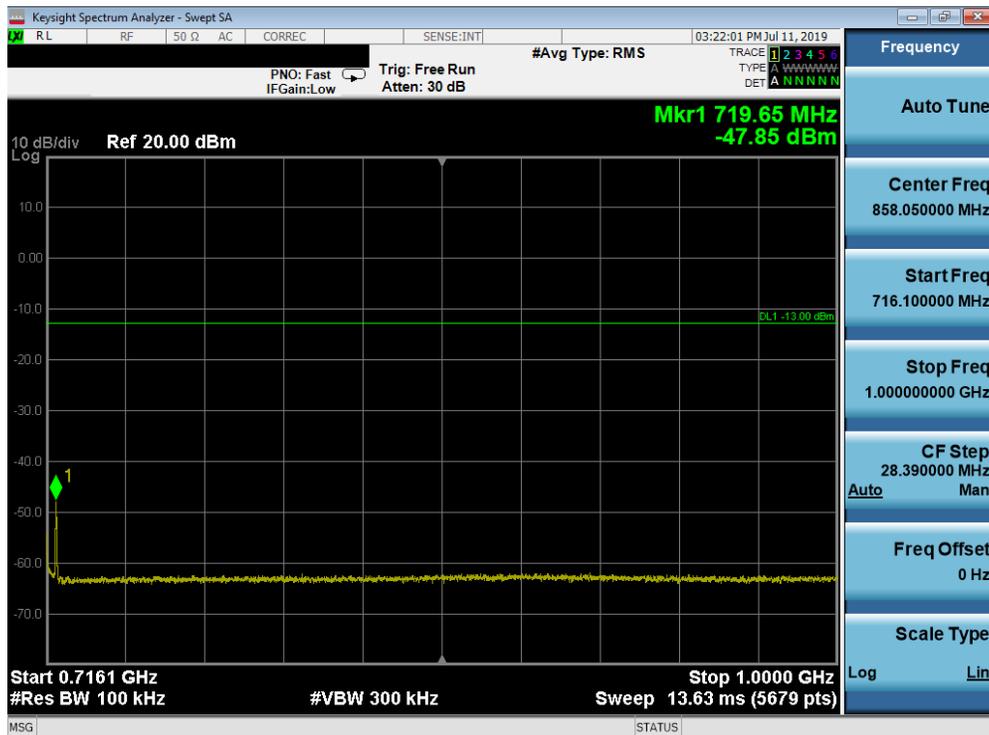


Plot 7-120. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 79 of 232 |

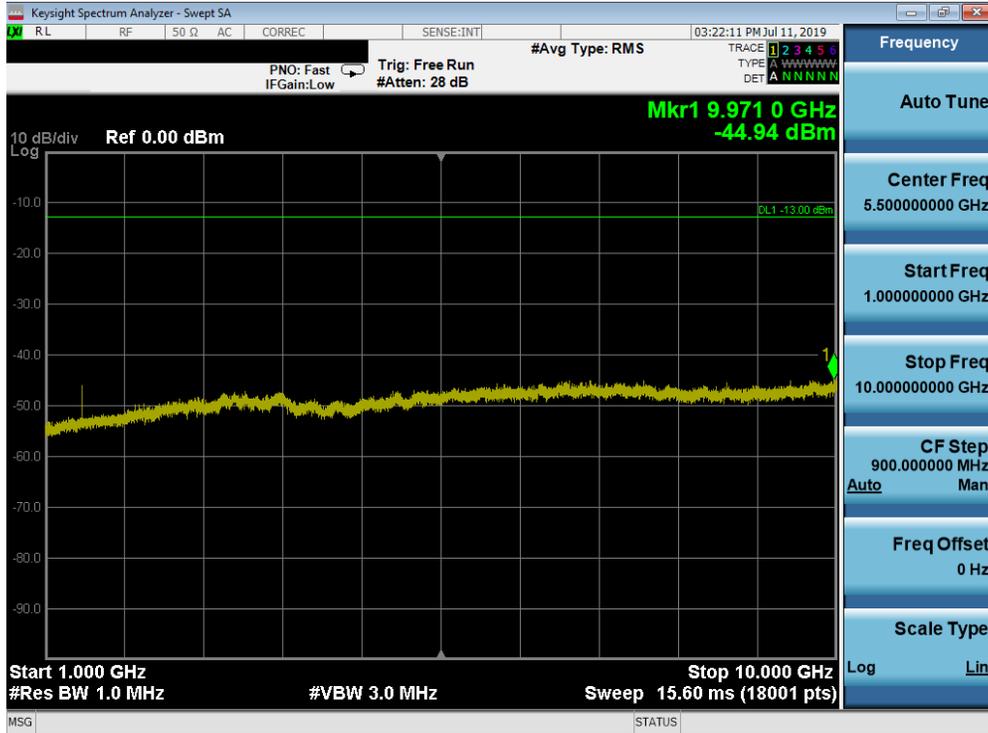


Plot 7-121. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-122. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

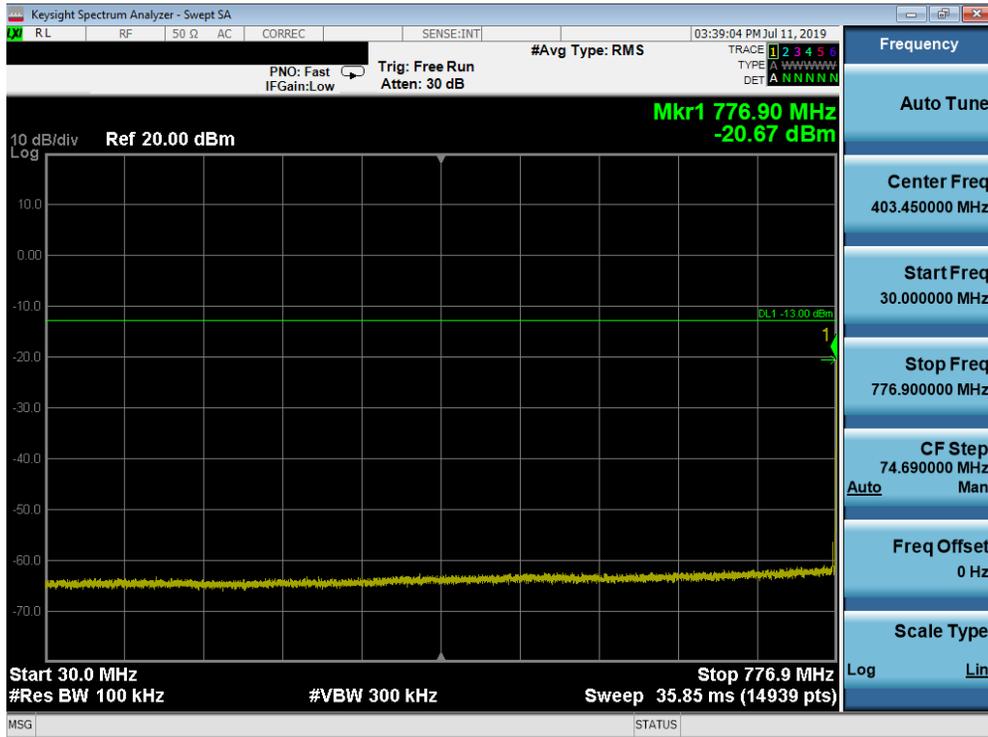
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 80 of 232 |



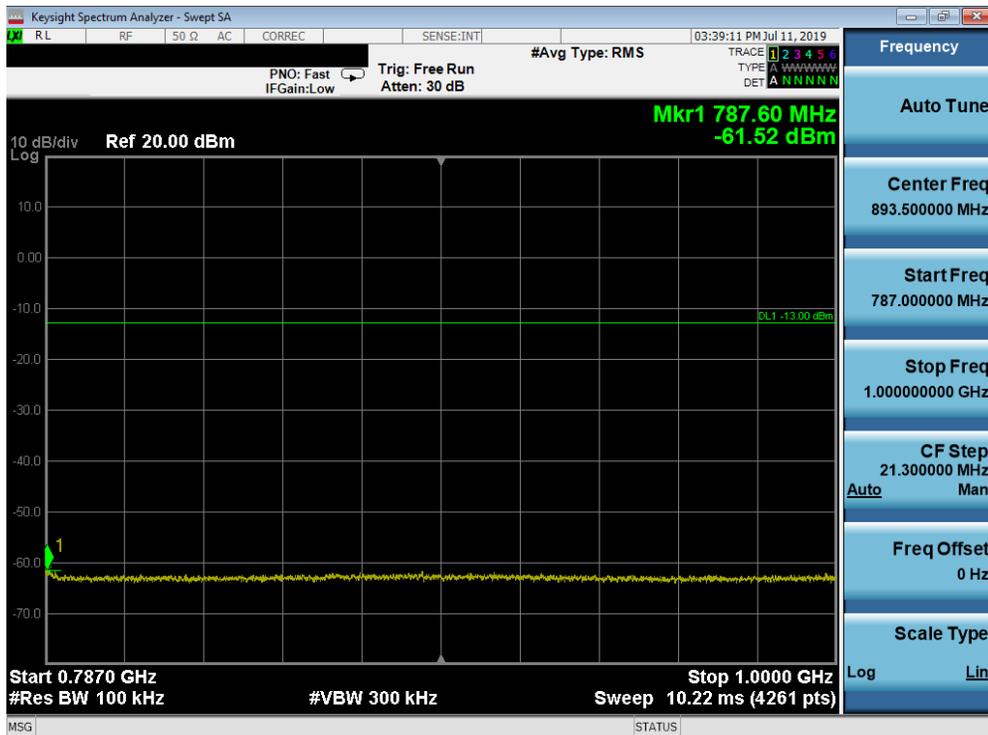
Plot 7-123. Conducted Spurious Plot (Band 12 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 81 of 232 |

Band 13

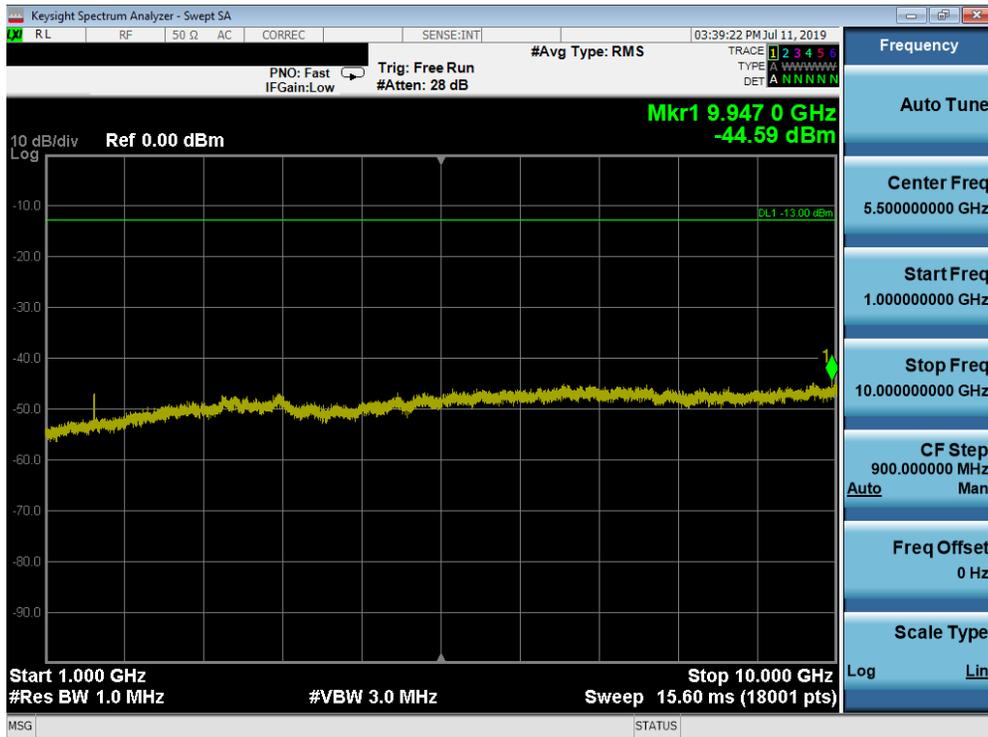


Plot 7-124. Conducted Spurious Plot (Band 13 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

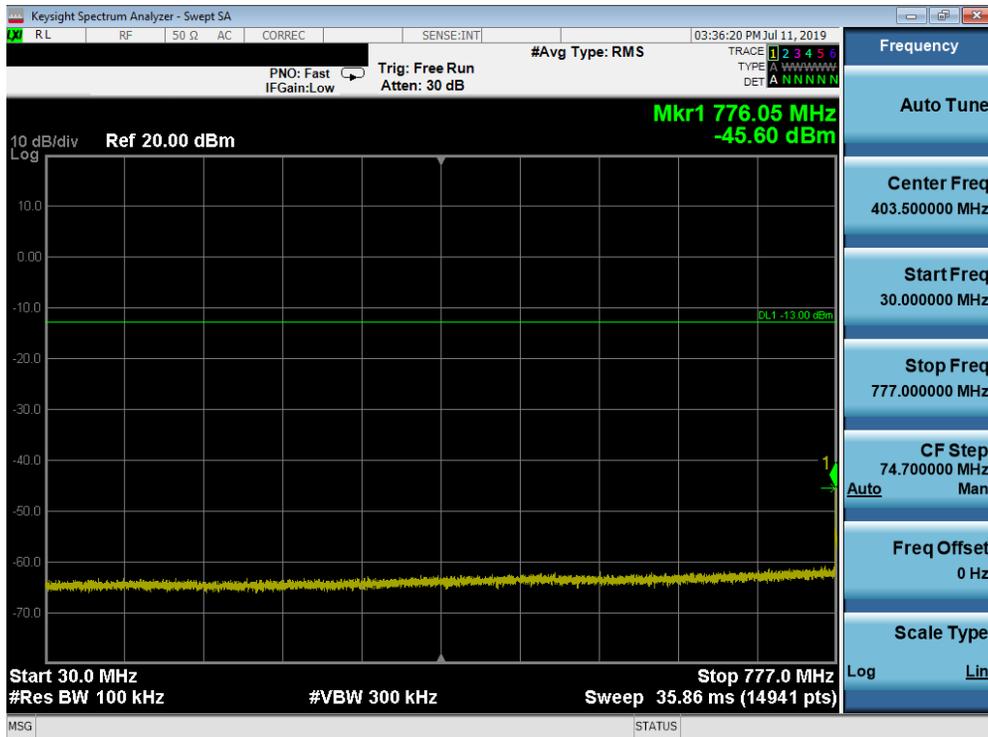


Plot 7-125. Conducted Spurious Plot (Band 13 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 82 of 232 |

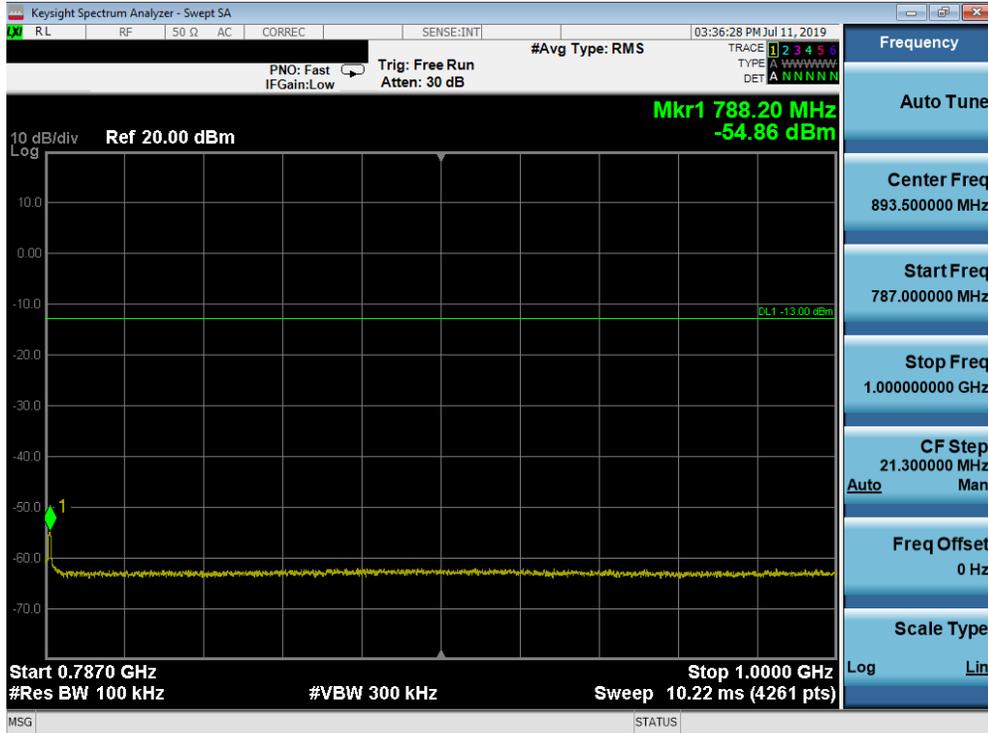


Plot 7-126. Conducted Spurious Plot (Band 13 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

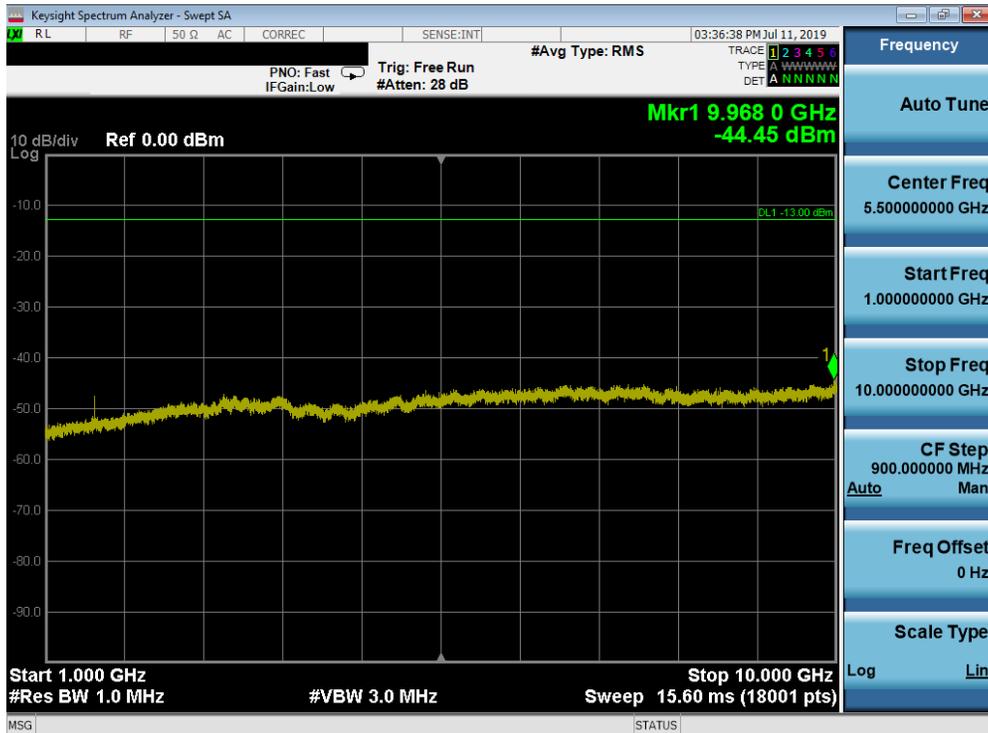


Plot 7-127. Conducted Spurious Plot (Band 13 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 83 of 232 |

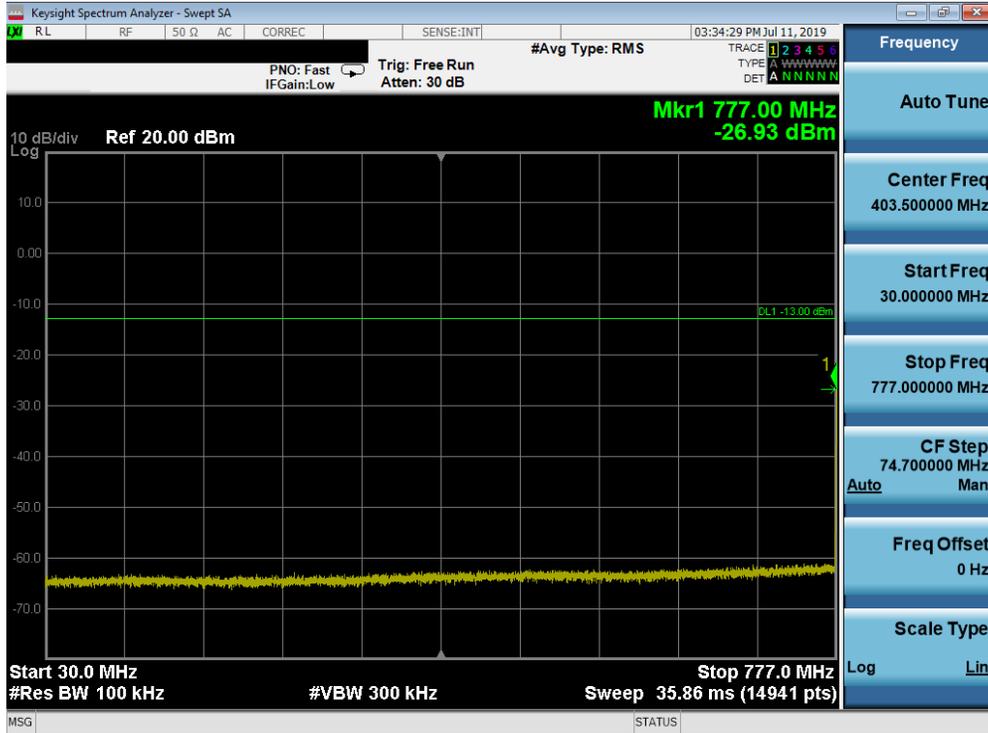


Plot 7-128. Conducted Spurious Plot (Band 13 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

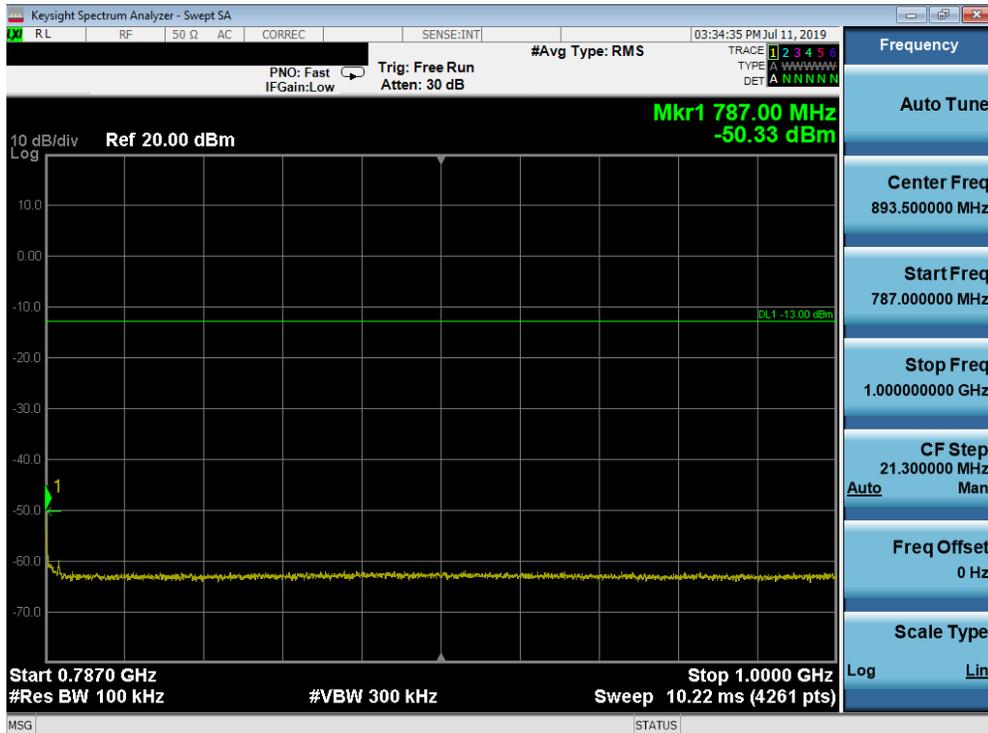


Plot 7-129. Conducted Spurious Plot (Band 13 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 84 of 232 |

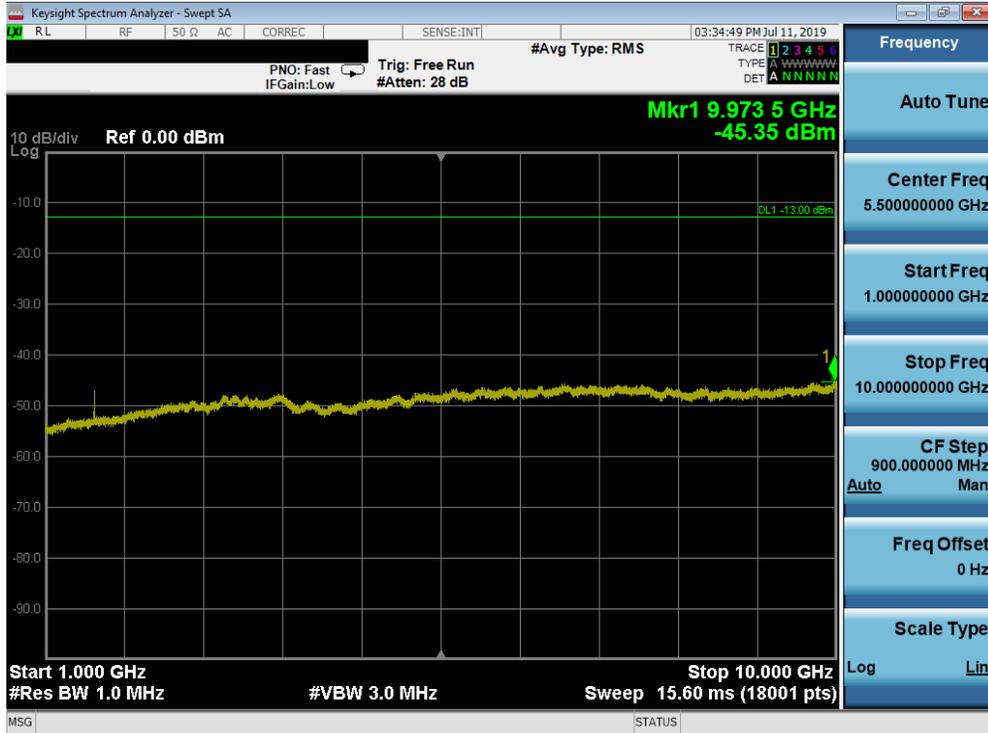


Plot 7-130. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)



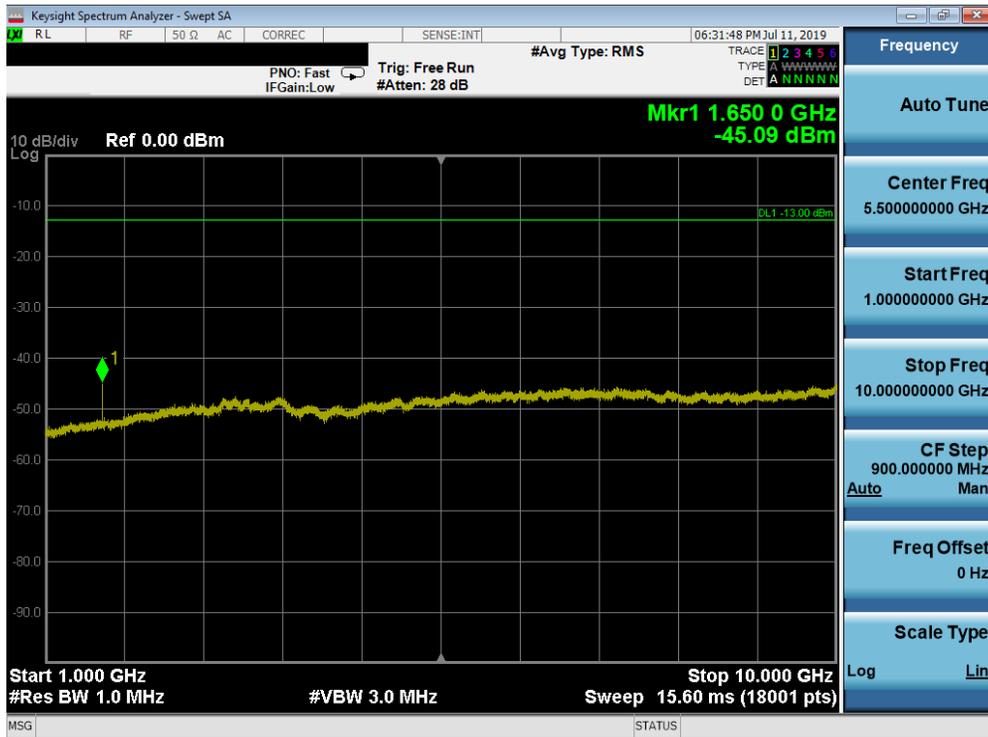
Plot 7-131. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 85 of 232 |

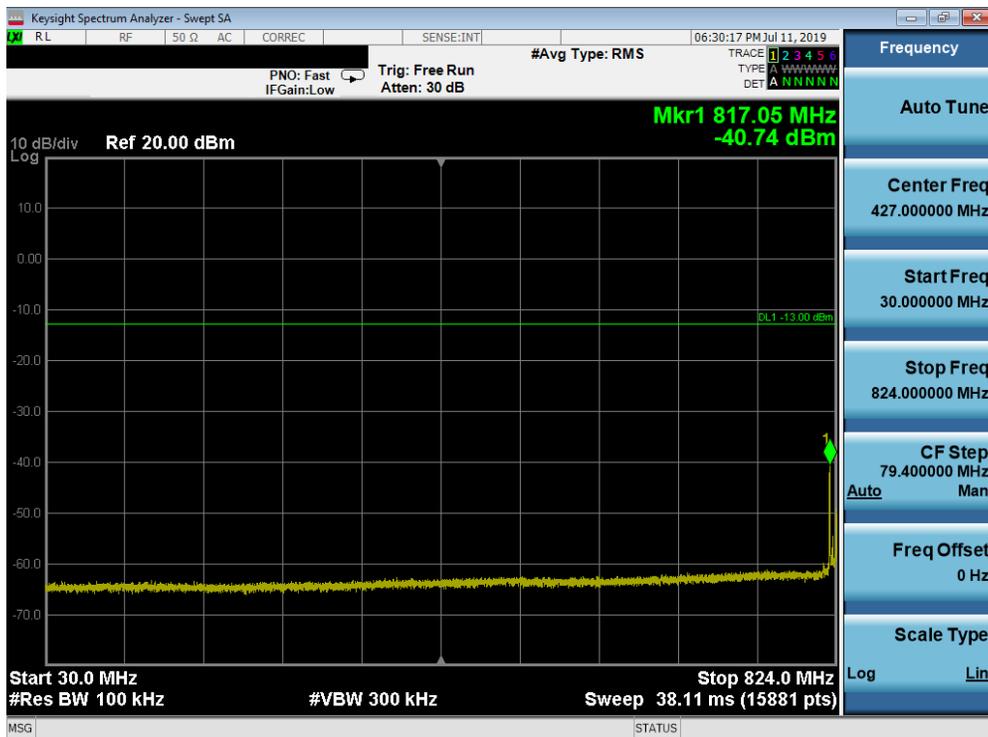


Plot 7-132. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

| | | | | |
|---|---|------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  MEASUREMENT REPORT (CERTIFICATION) | |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | Page 86 of 232 | |

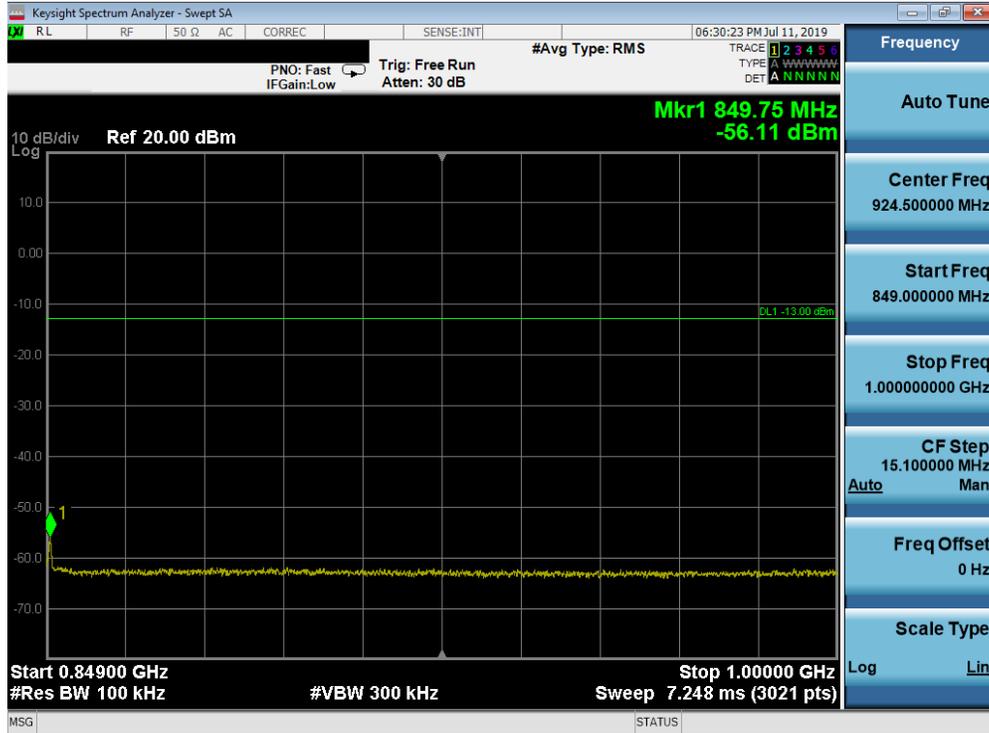


Plot 7-135. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

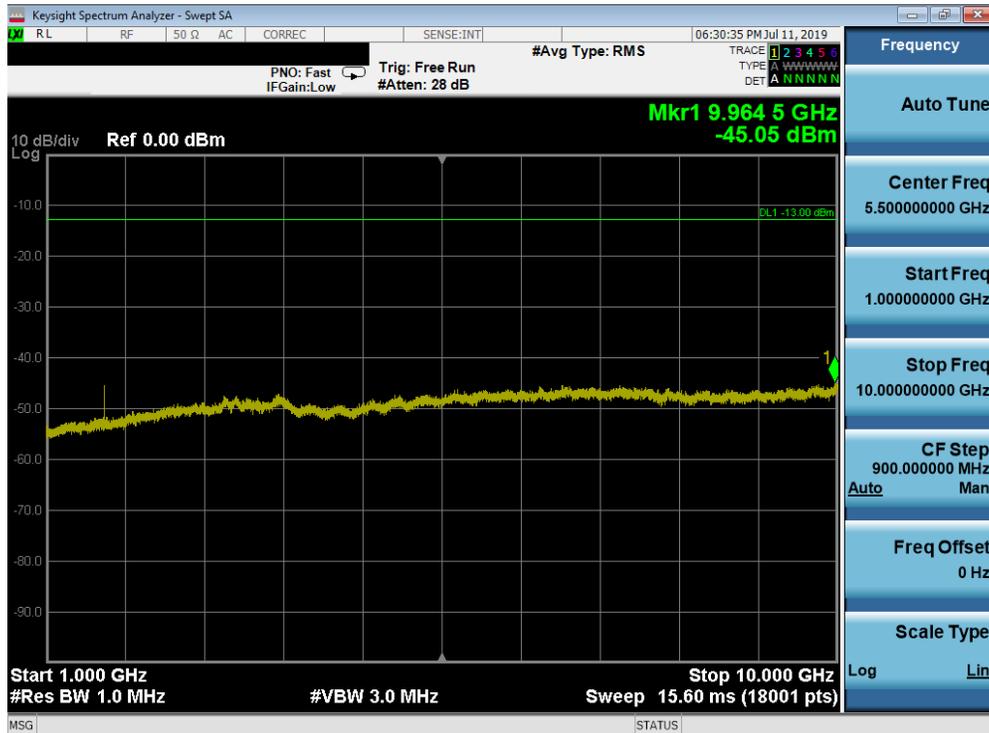


Plot 7-136. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 88 of 232 |

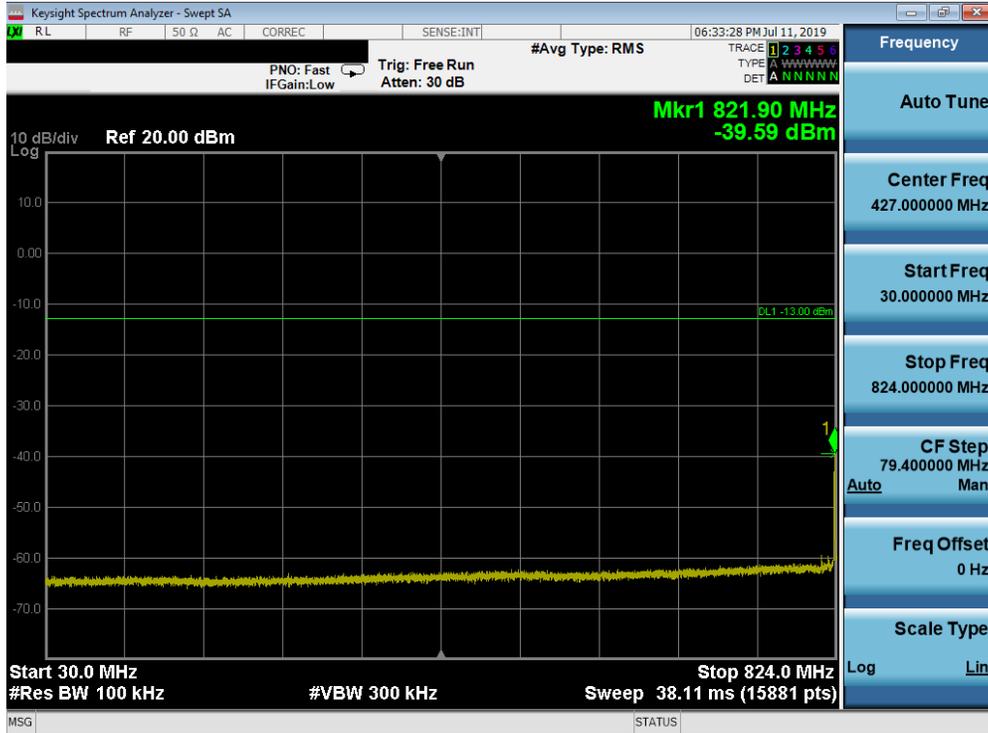


Plot 7-137. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

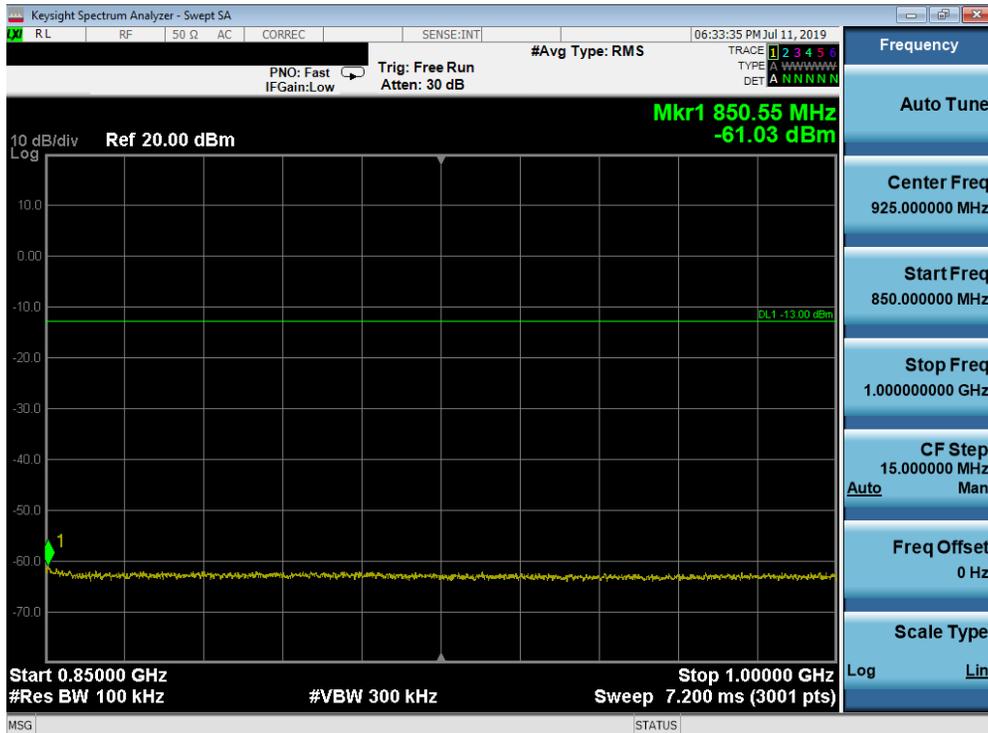


Plot 7-138. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 89 of 232 |

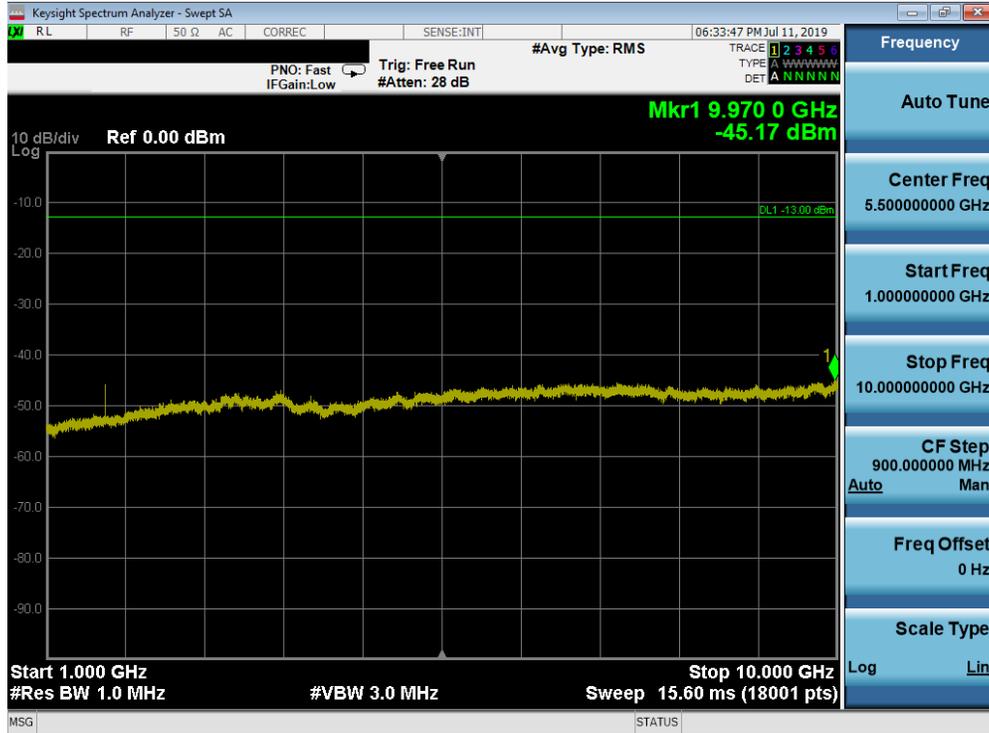


Plot 7-139. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-140. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

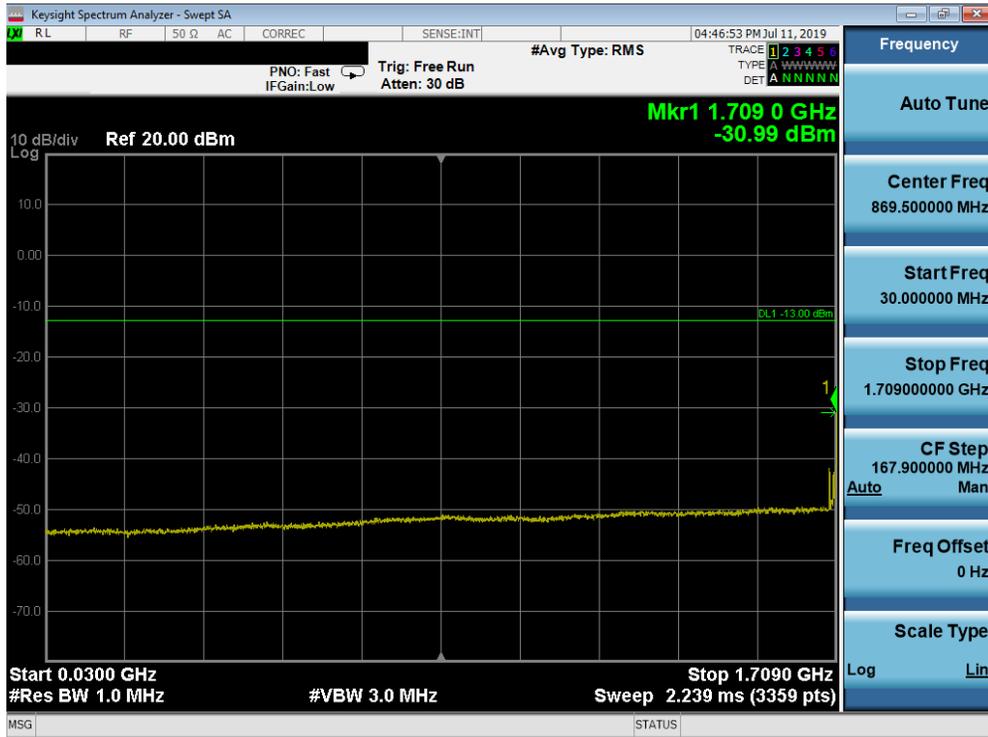
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 90 of 232 |



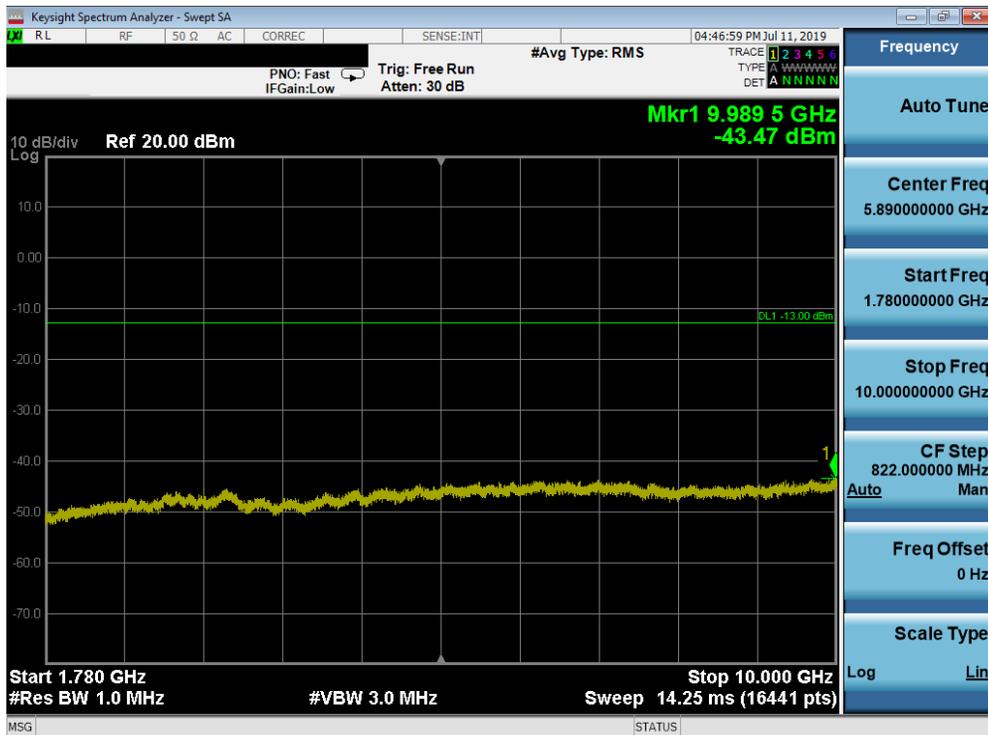
Plot 7-141. Conducted Spurious Plot (Band 26/5 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|---|------------------------------|----------------|---------------------------------|
| FCC ID: ZNFT600US | MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | Page 91 of 232 | |

Band 66/4

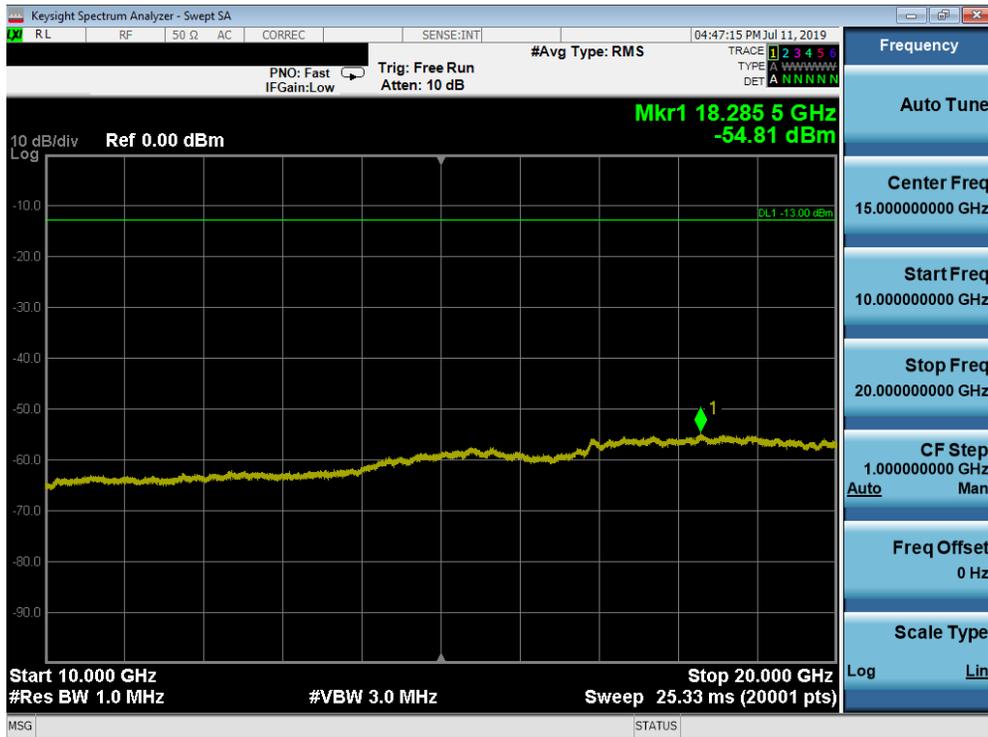


Plot 7-142. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-143. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 92 of 232 |

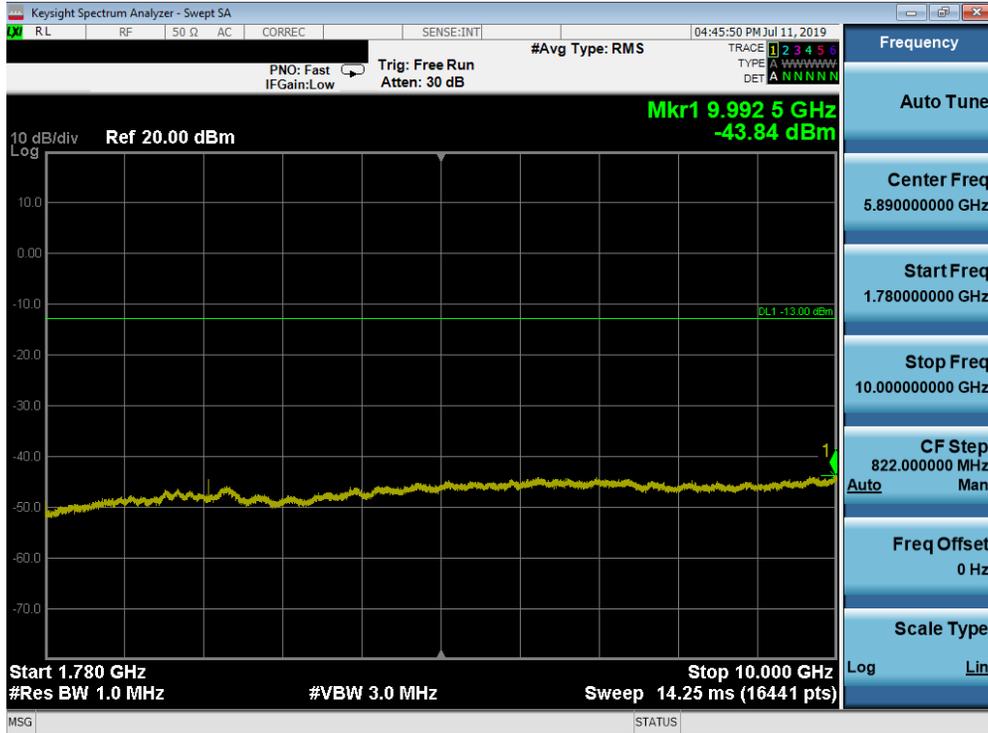


Plot 7-144. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

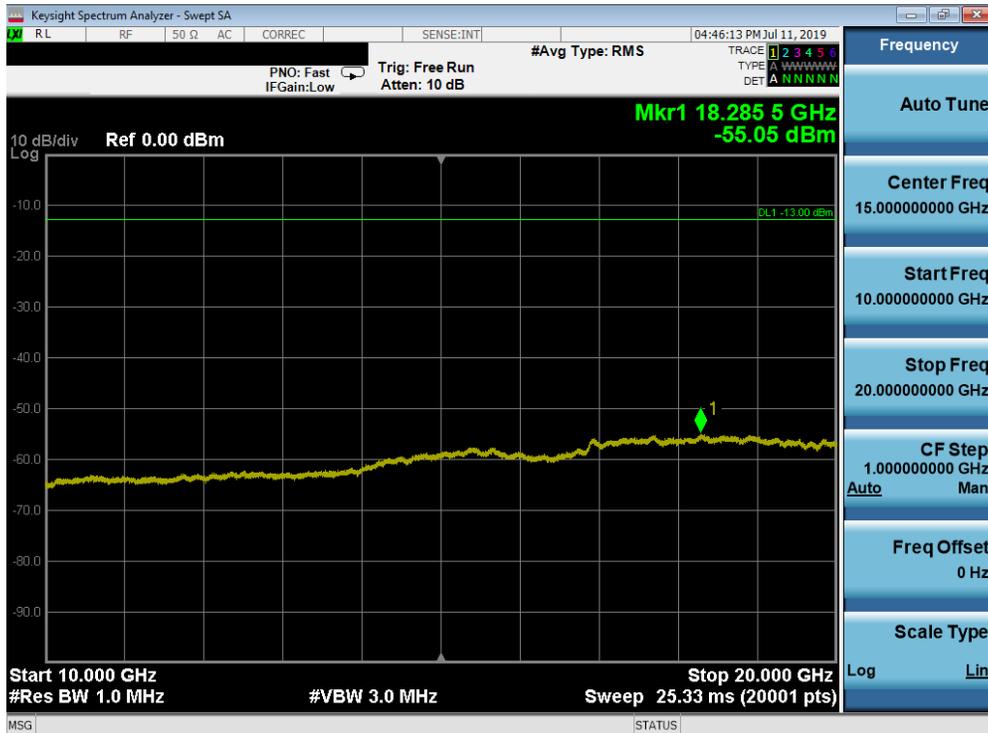


Plot 7-145. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 93 of 232 |

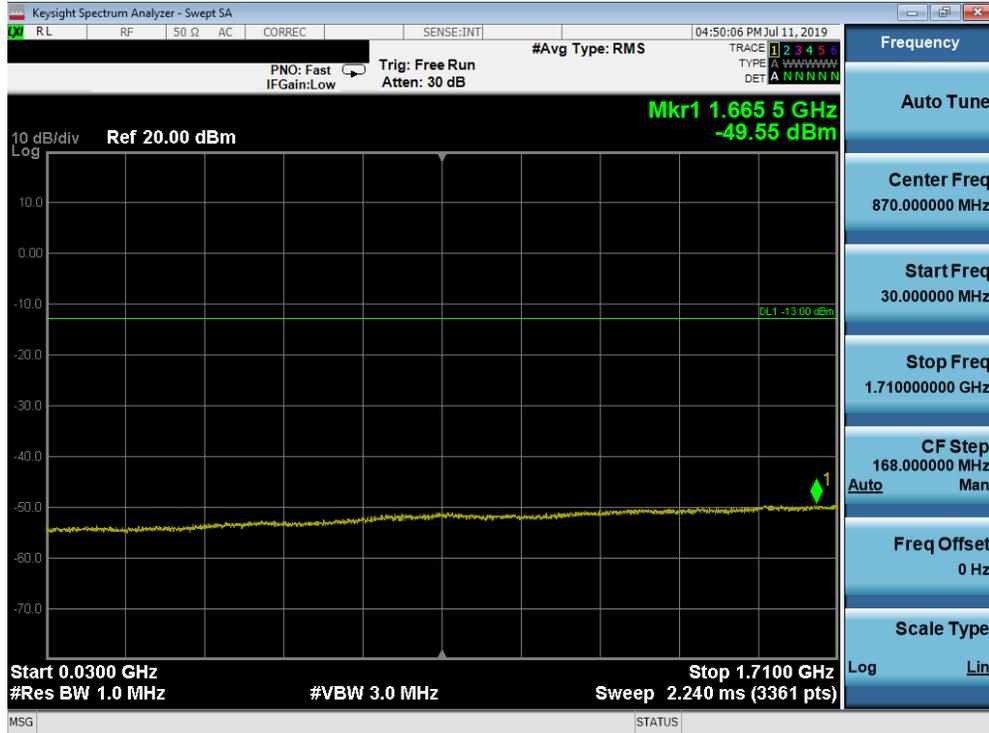


Plot 7-146. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

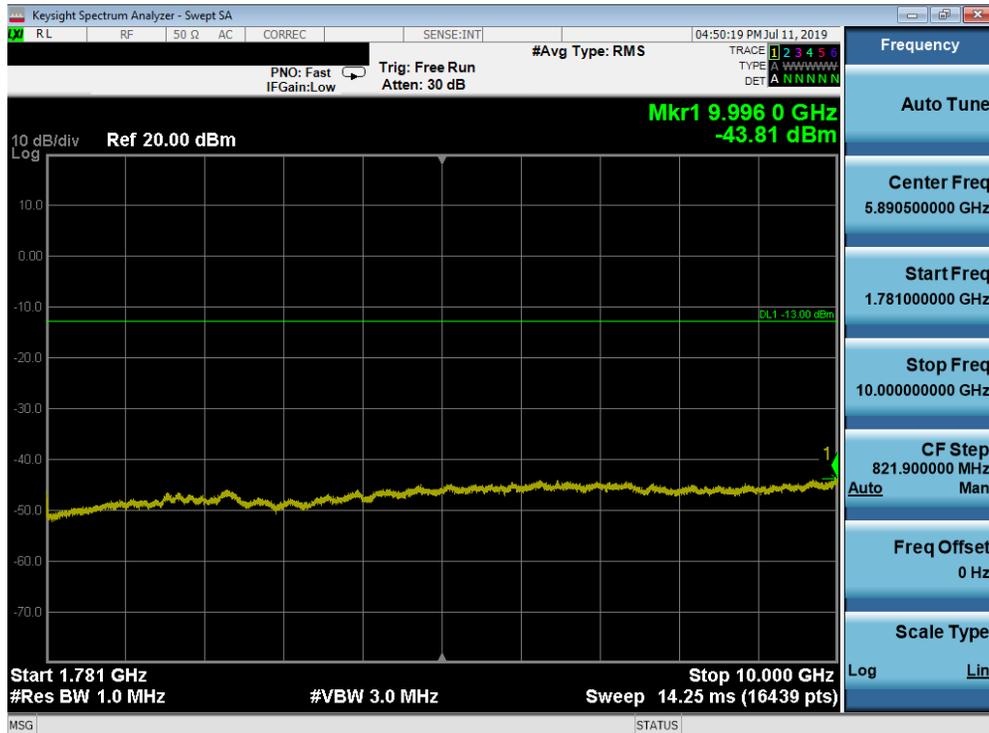


Plot 7-147. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 94 of 232 |

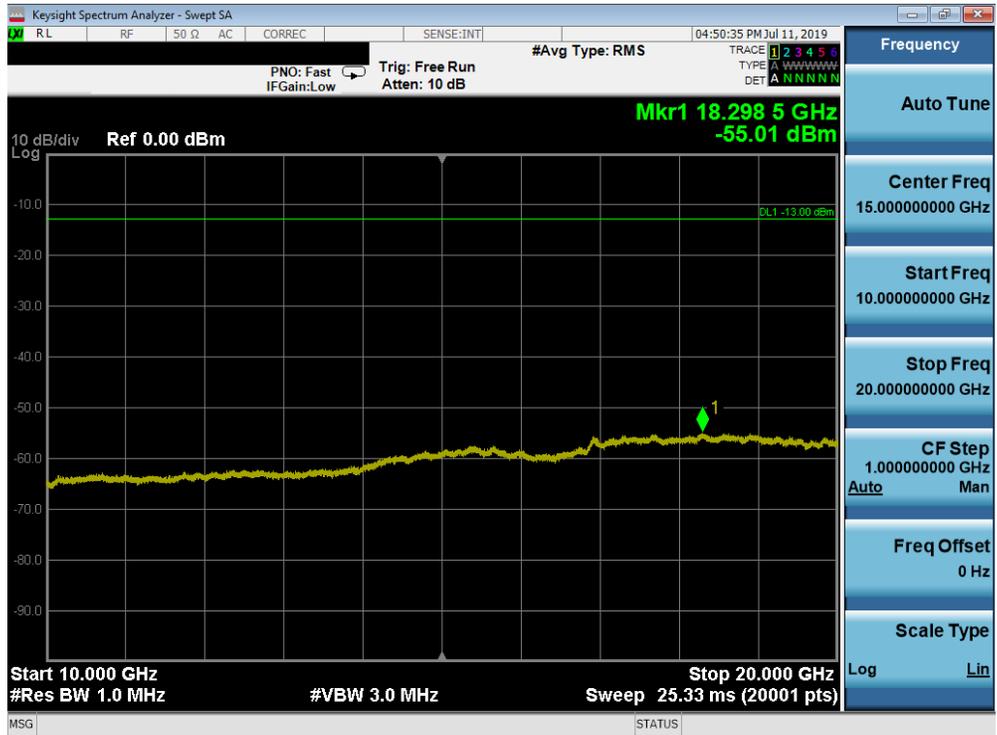


Plot 7-148. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-149. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 95 of 232 |



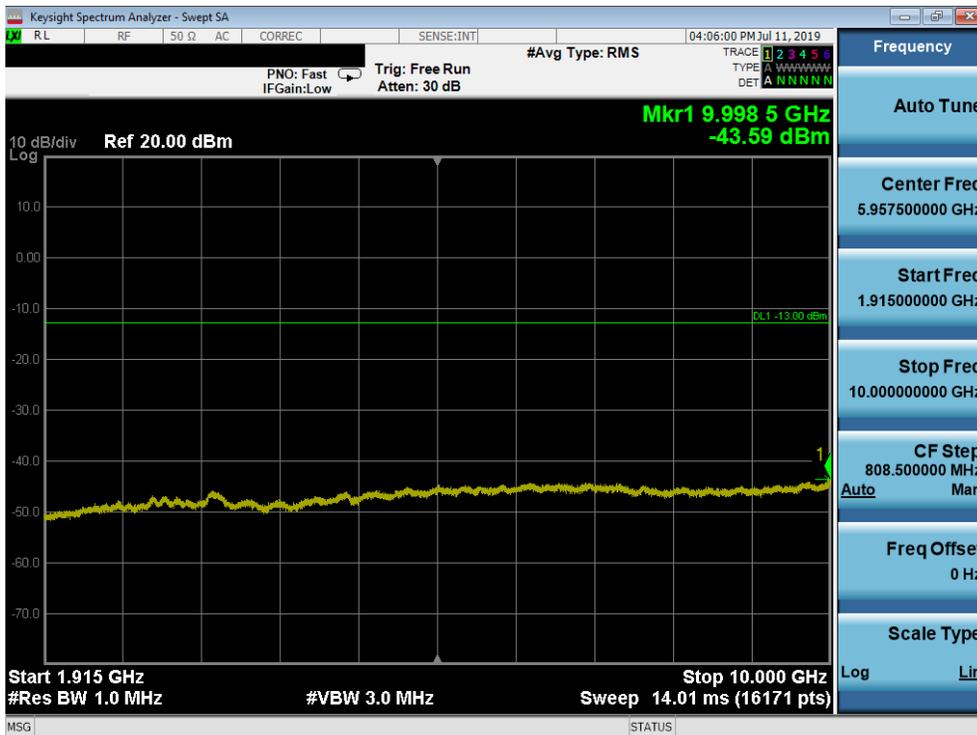
Plot 7-150. Conducted Spurious Plot (Band 66/4 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 96 of 232 |

Band 25/2

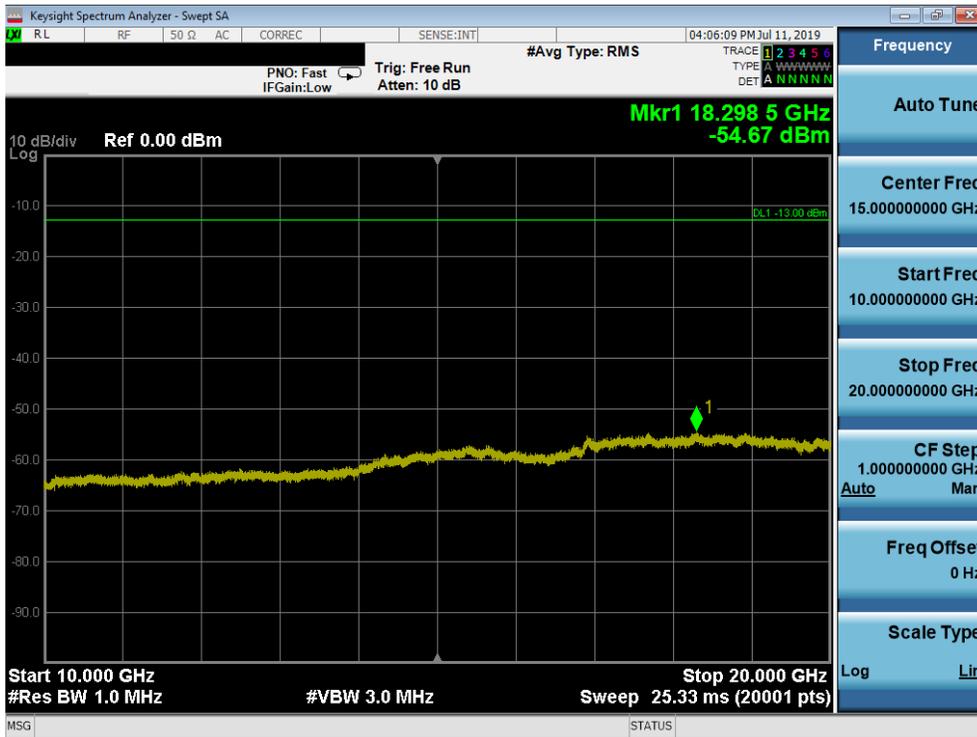


Plot 7-151. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-152. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 97 of 232 |

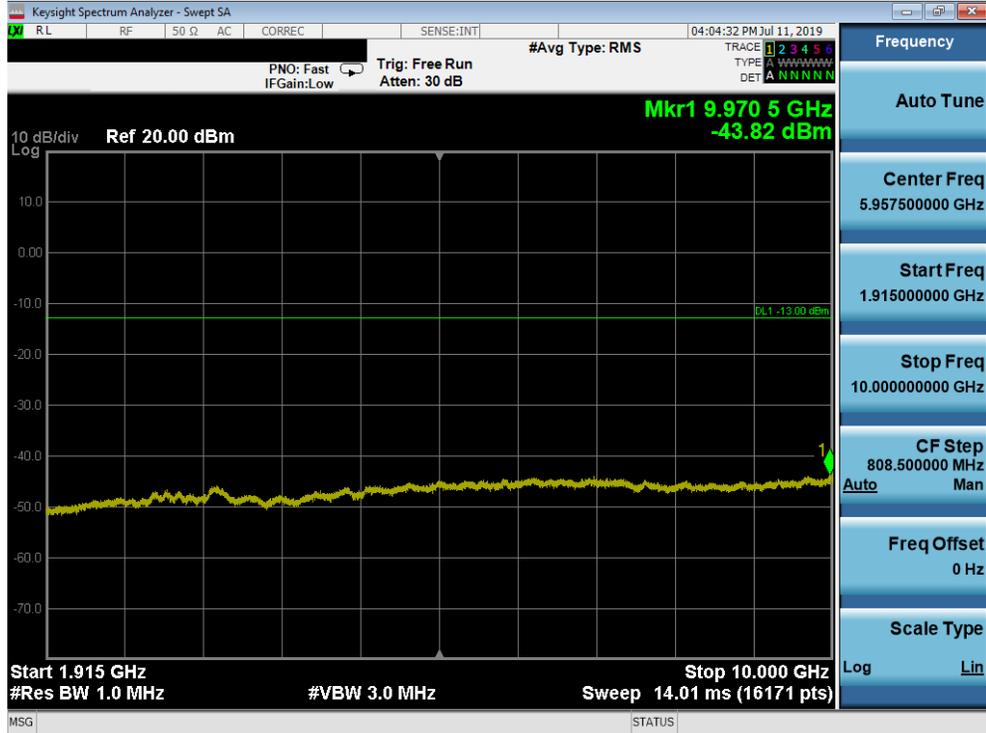


Plot 7-153. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-154. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 98 of 232 |

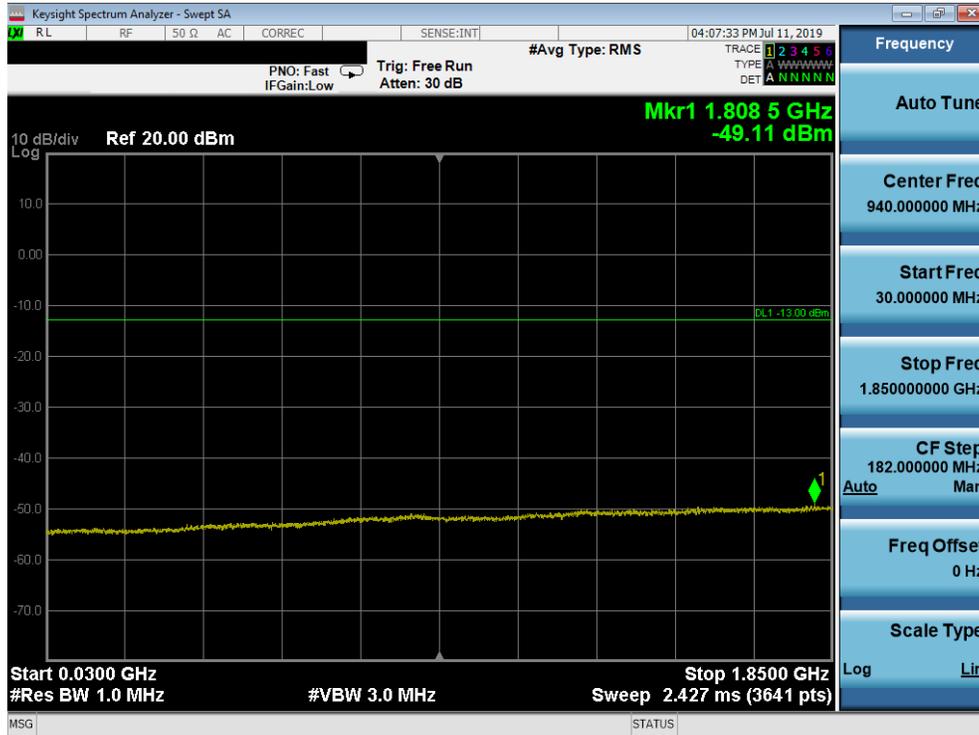


Plot 7-155. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

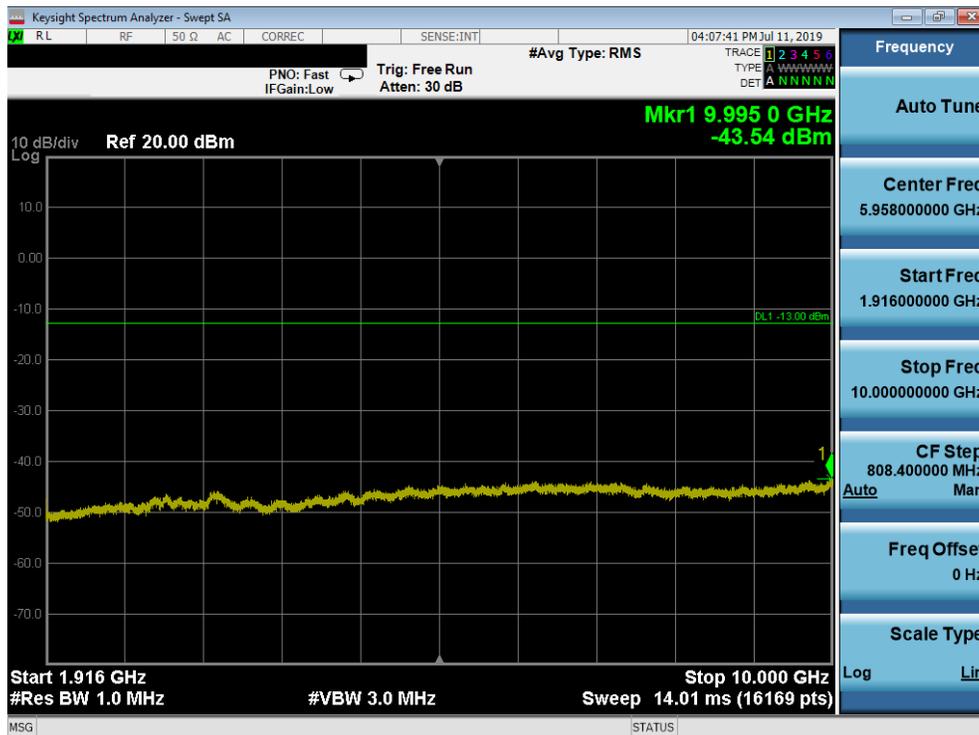


Plot 7-156. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 99 of 232 |

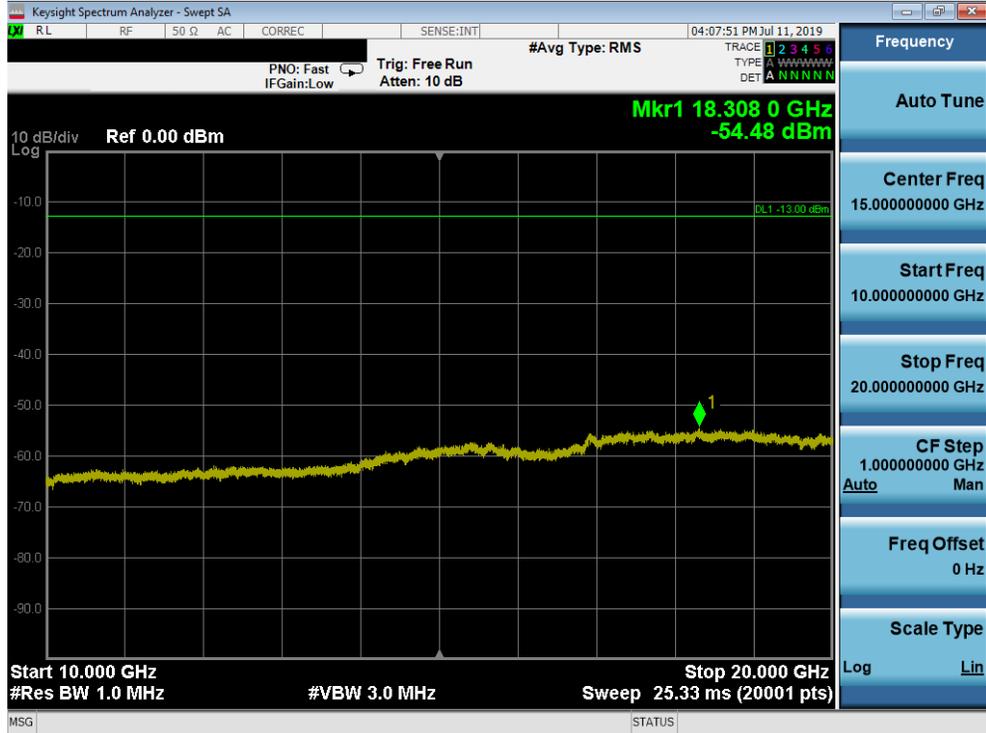


Plot 7-157. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-158. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

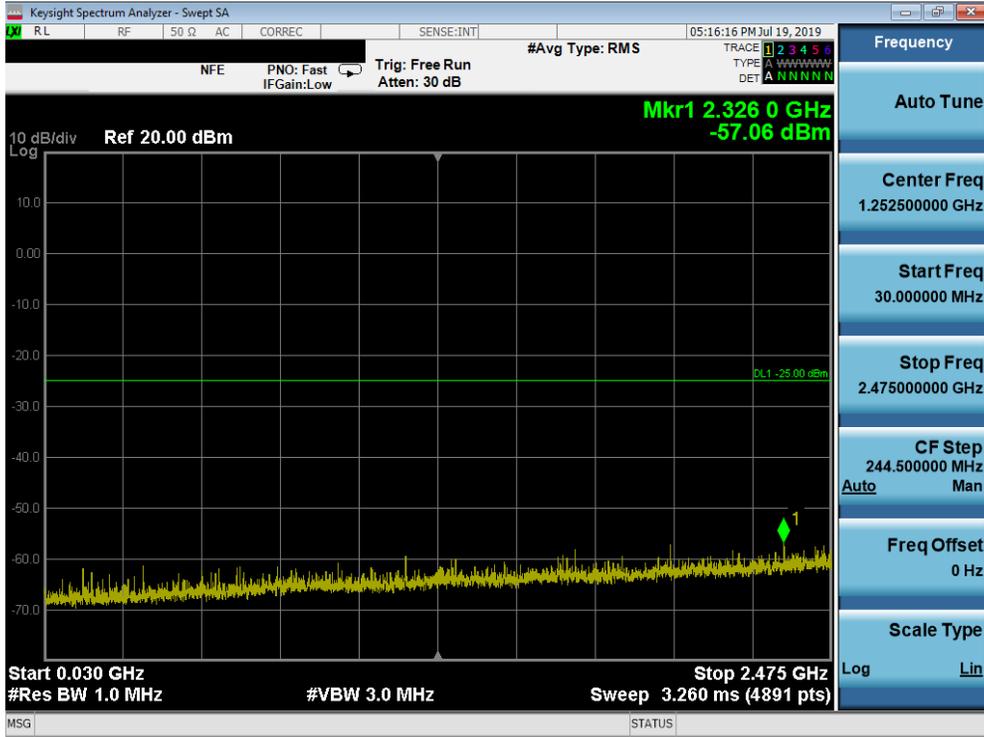
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 100 of 232 |



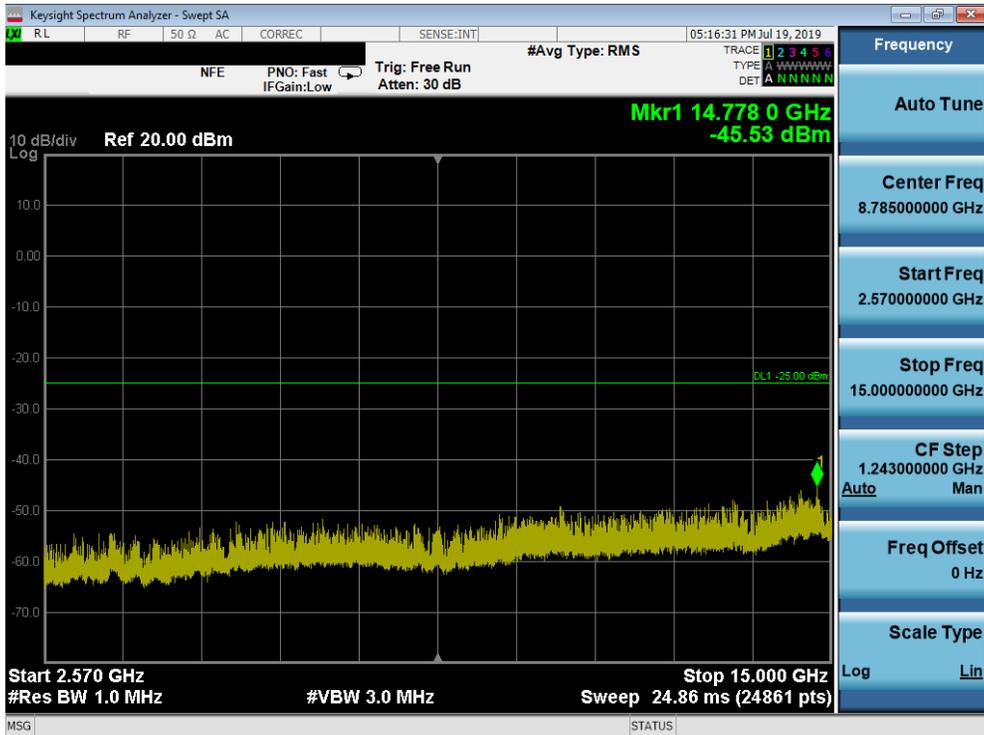
Plot 7-159. Conducted Spurious Plot (Band 25/2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 101 of 232 |

Band 7

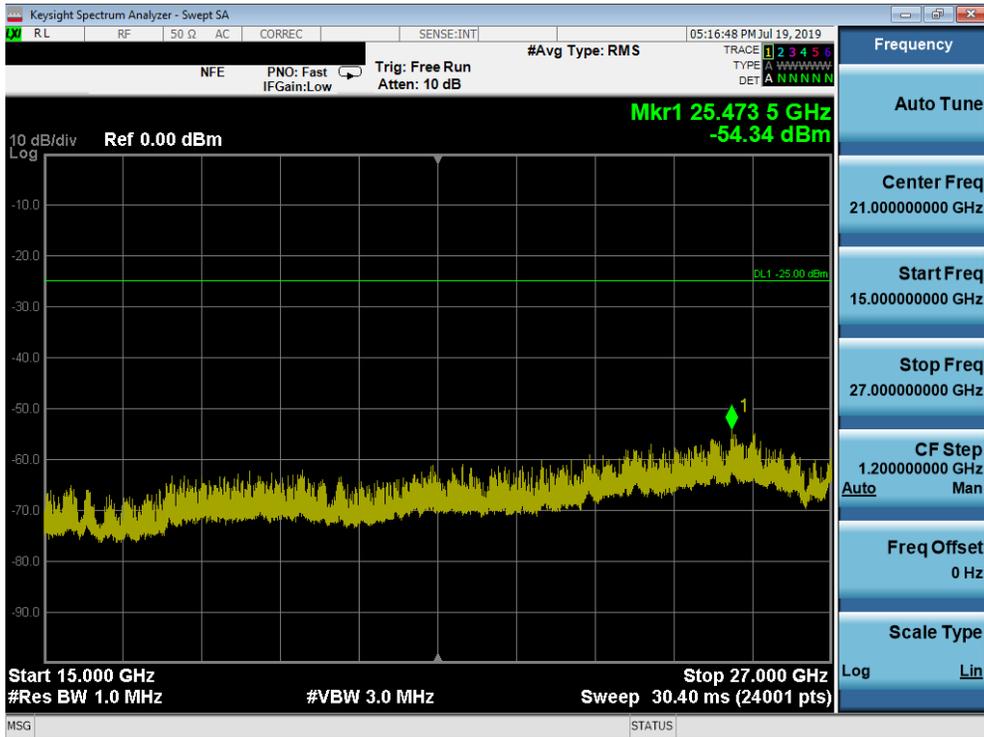


Plot 7-160. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

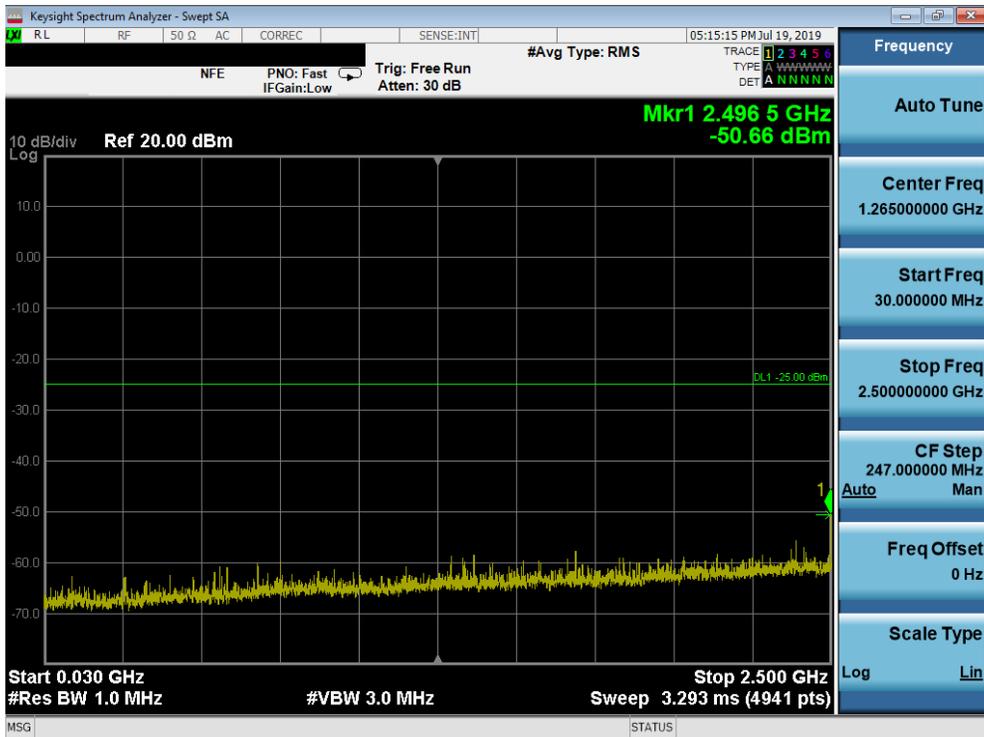


Plot 7-161. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 102 of 232 |

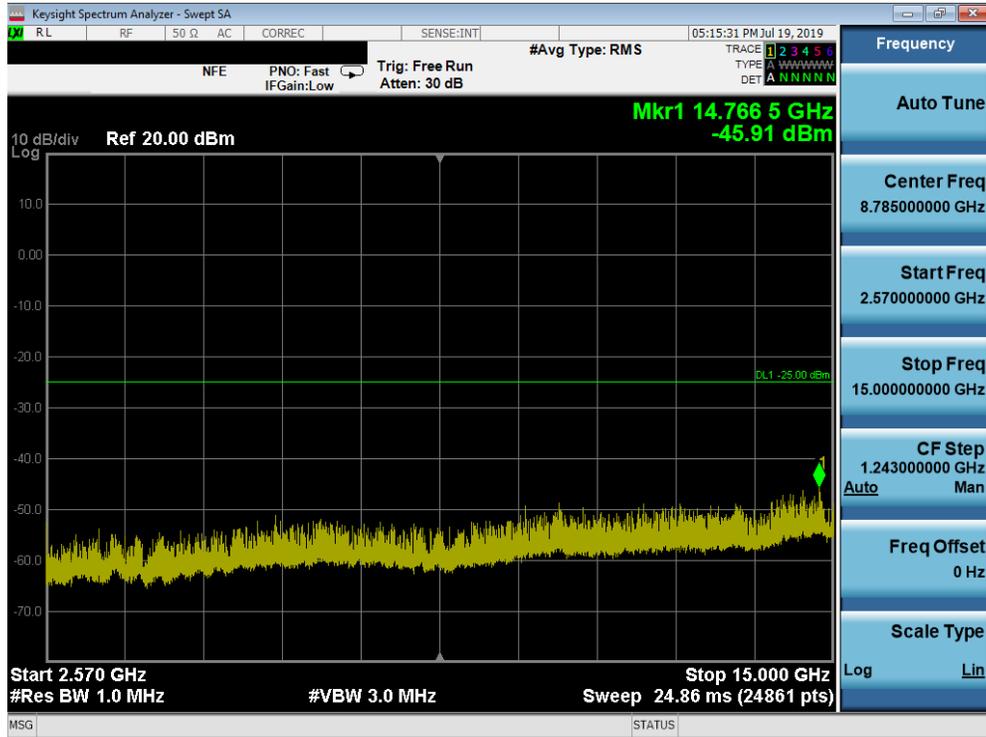


Plot 7-162. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

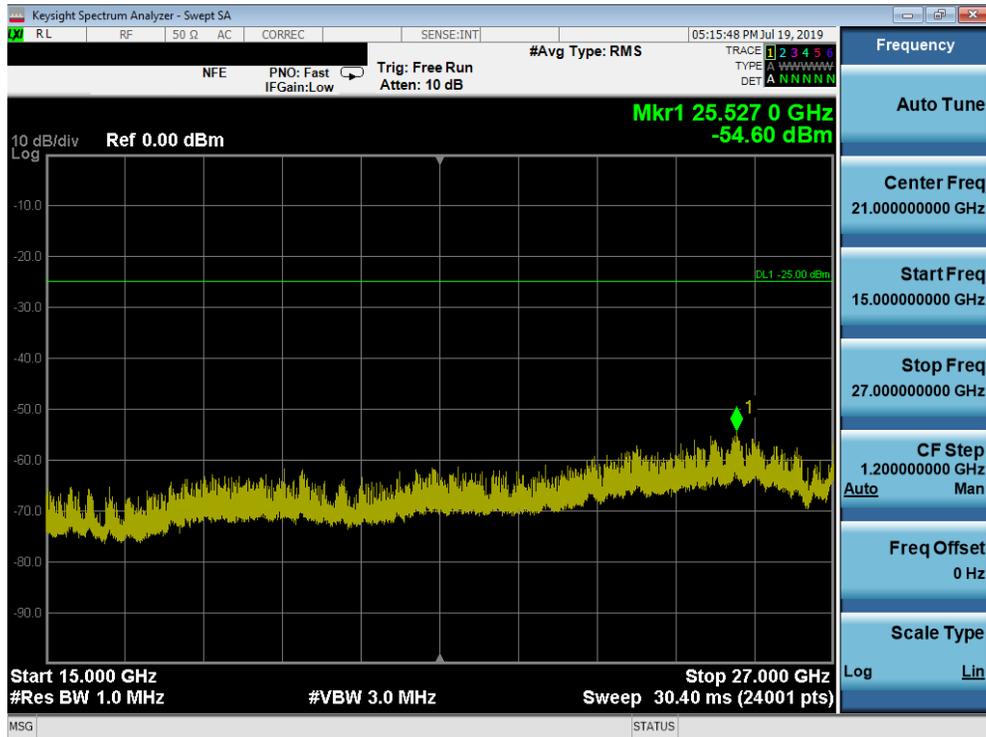


Plot 7-163. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 103 of 232 |

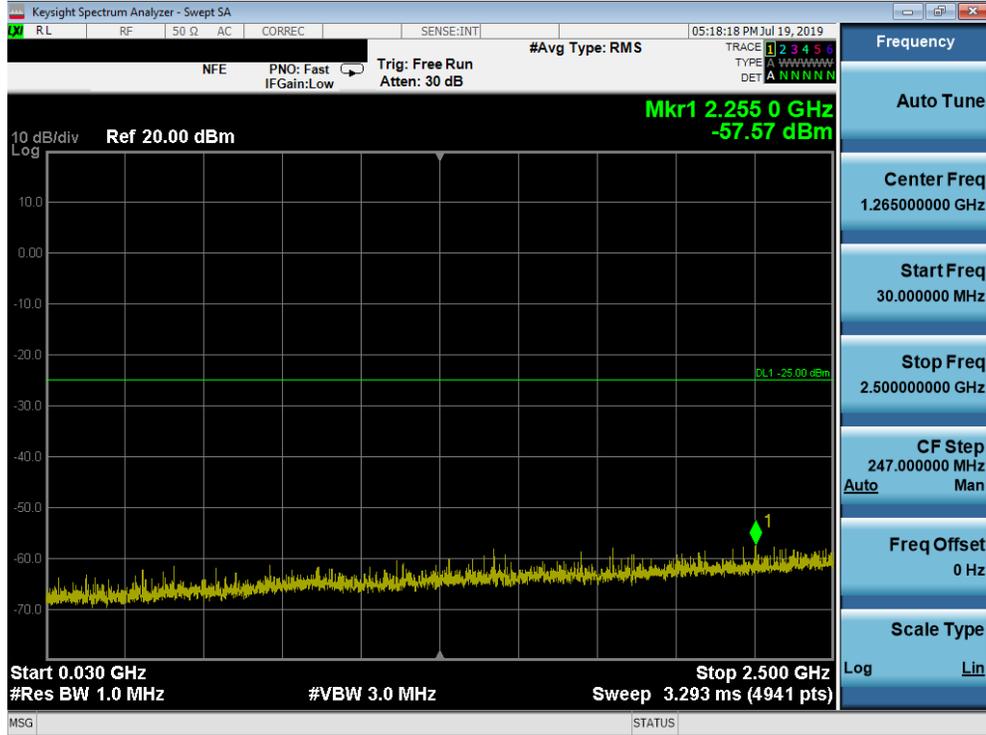


Plot 7-164. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

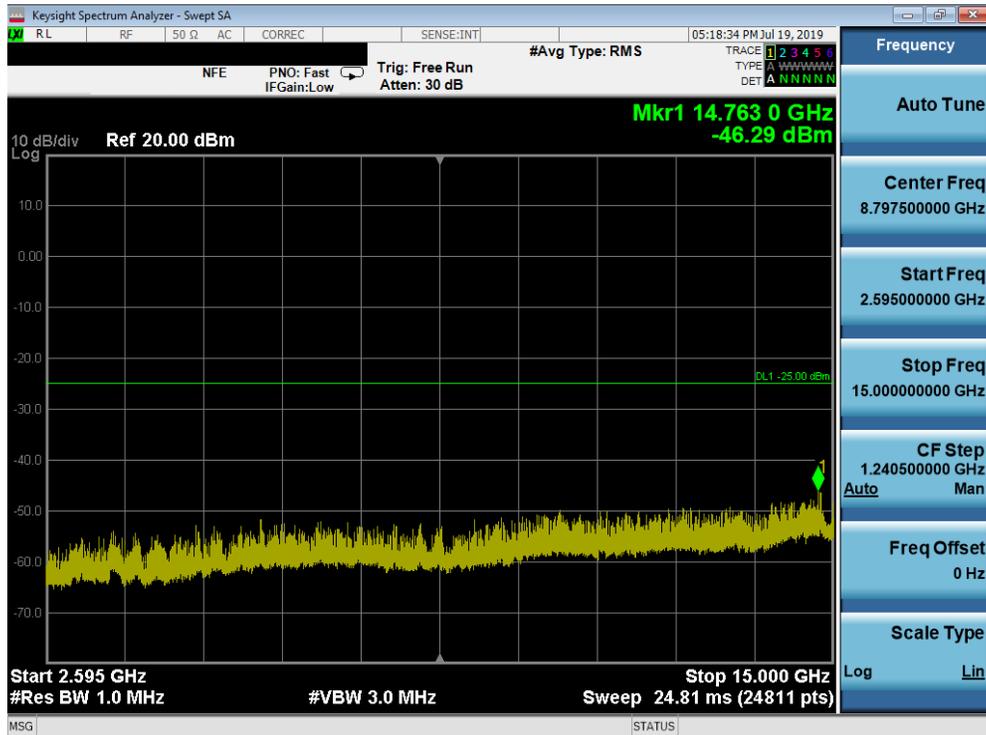


Plot 7-165. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 104 of 232 |

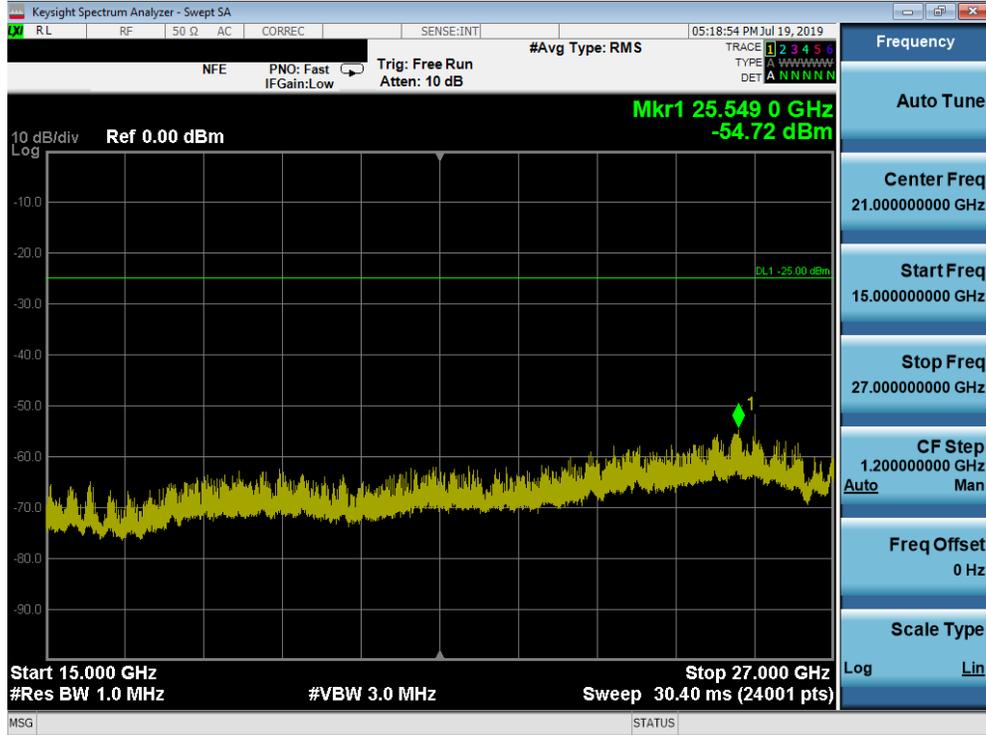


Plot 7-166. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-167. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

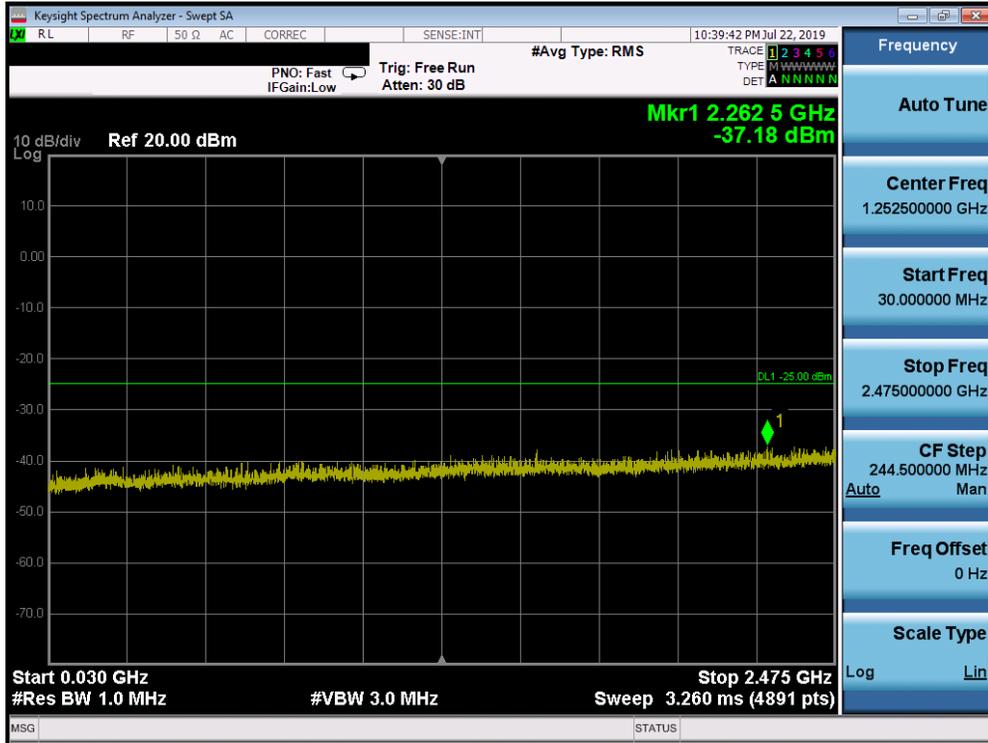
| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 105 of 232 |



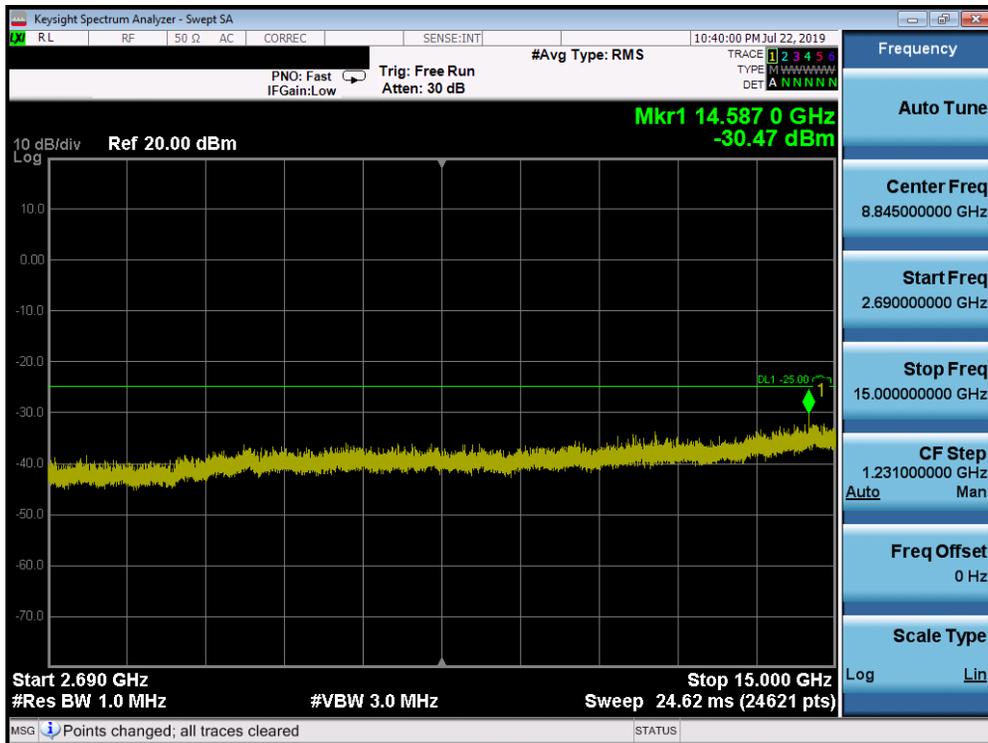
Plot 7-168. Conducted Spurious Plot (Band 7 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 106 of 232 |

Band 41 PC3

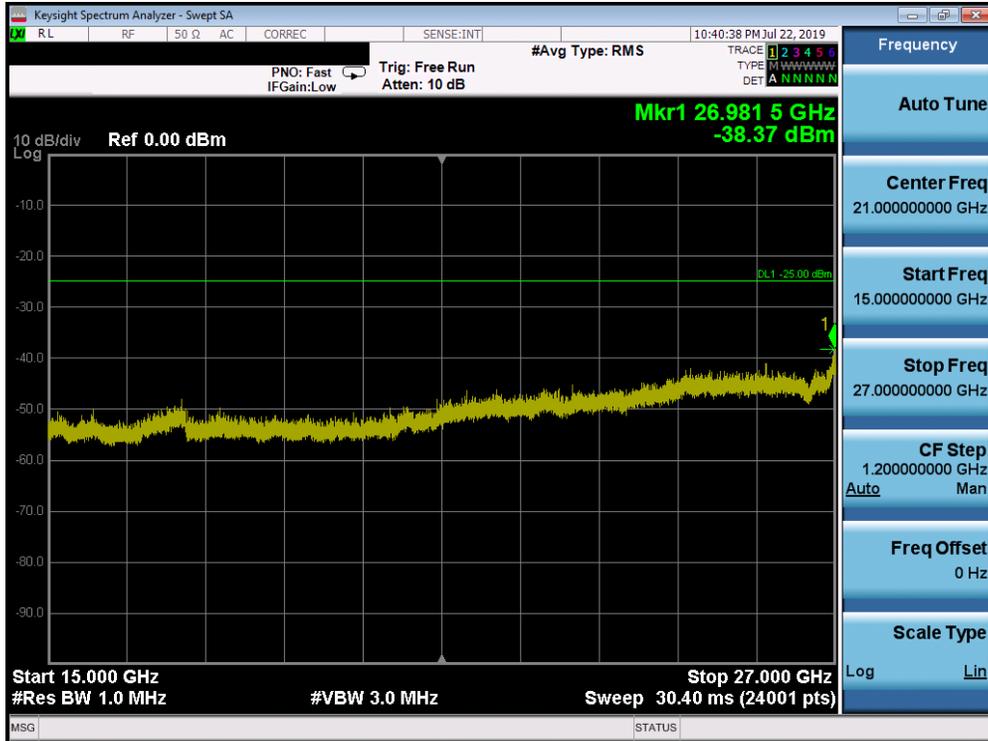


Plot 7-169. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

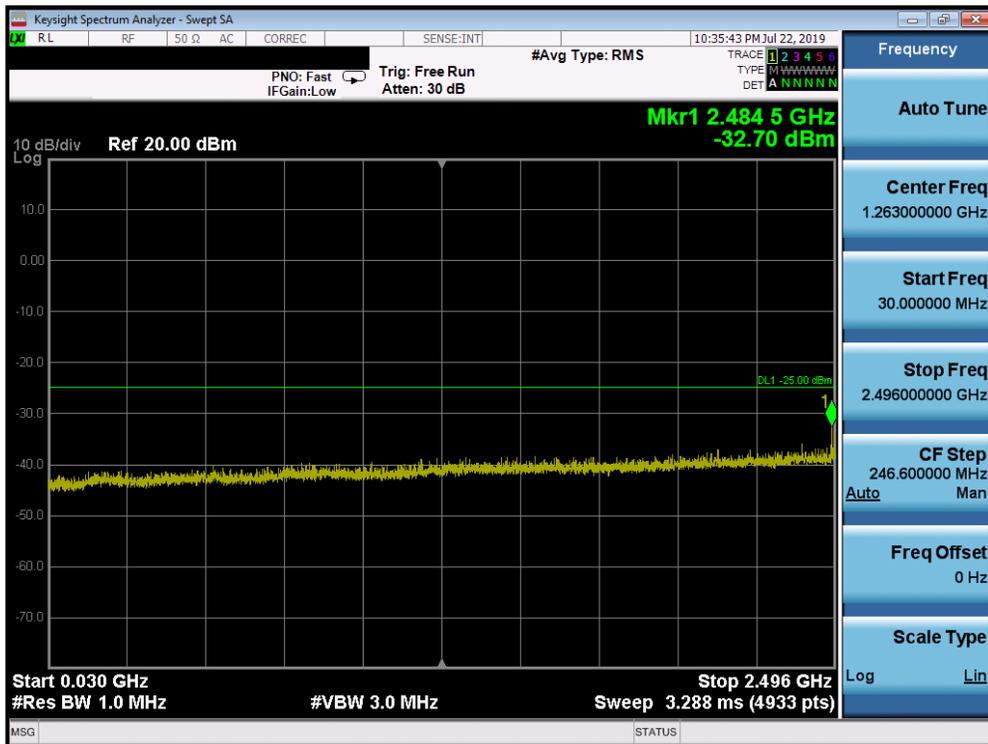


Plot 7-170. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 107 of 232 |

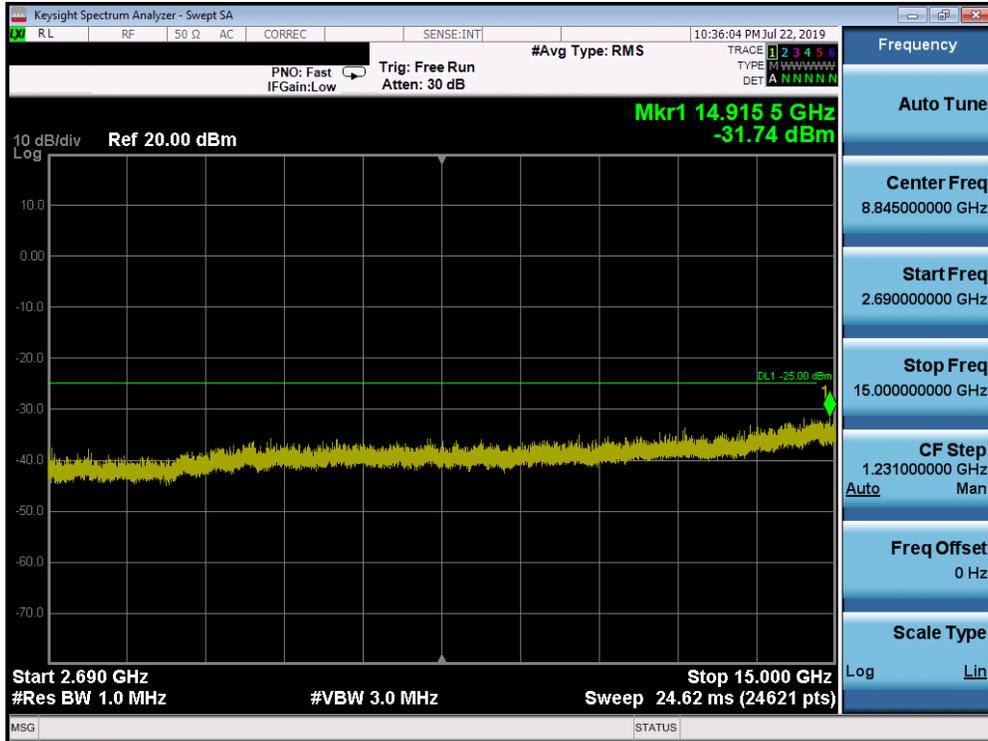


Plot 7-171. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

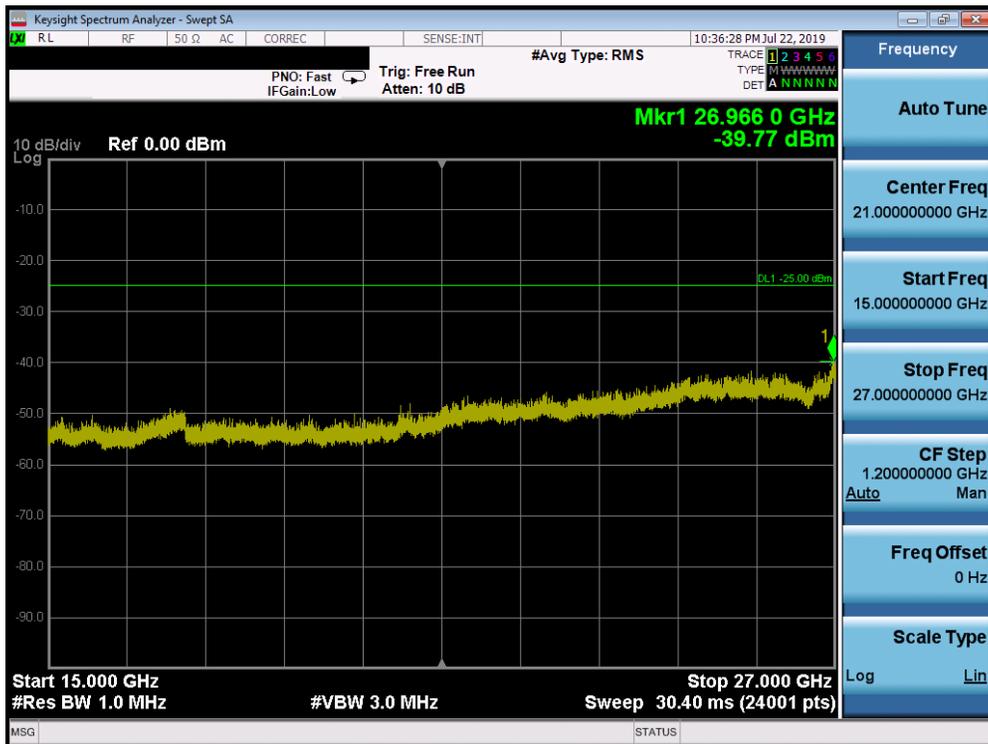


Plot 7-172. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 108 of 232 |

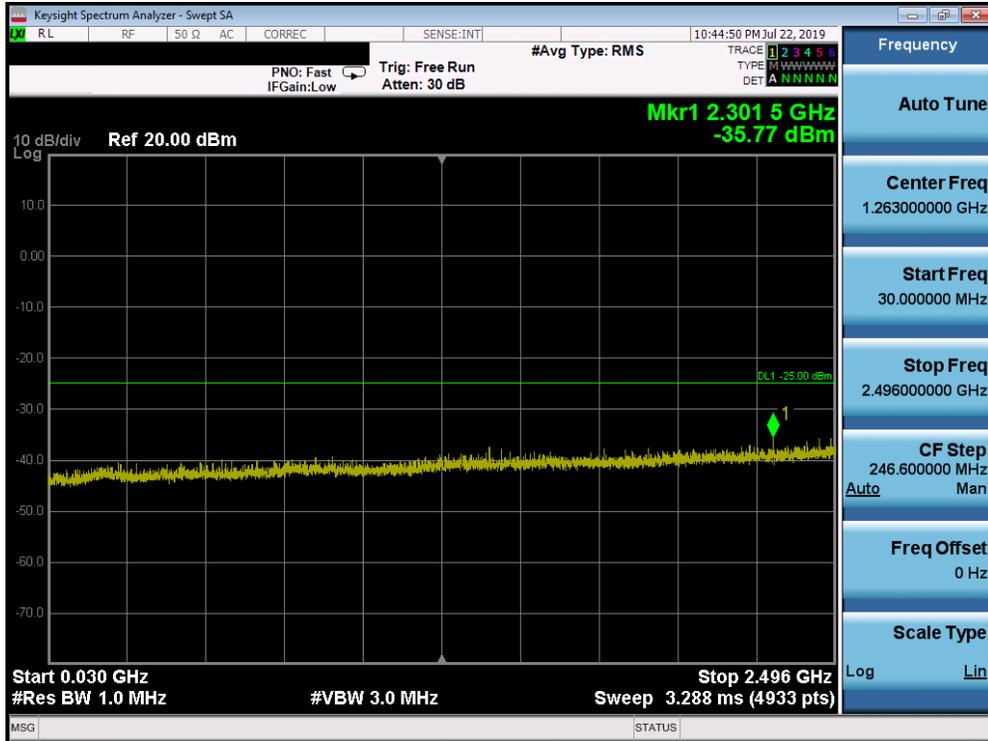


Plot 7-173. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

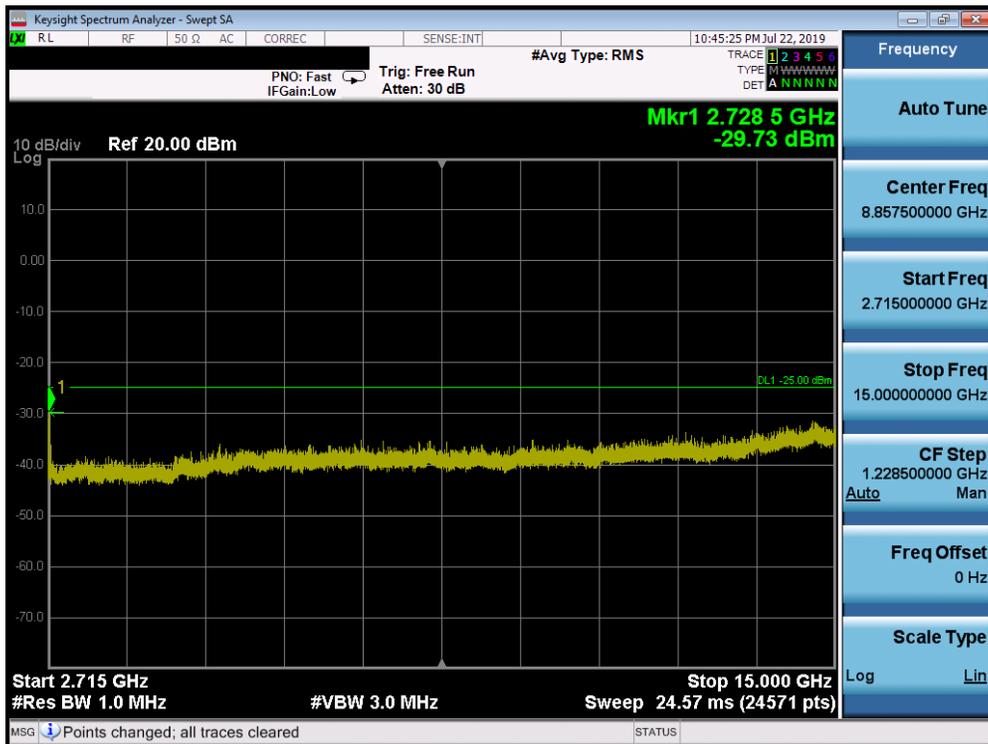


Plot 7-174. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 109 of 232 |

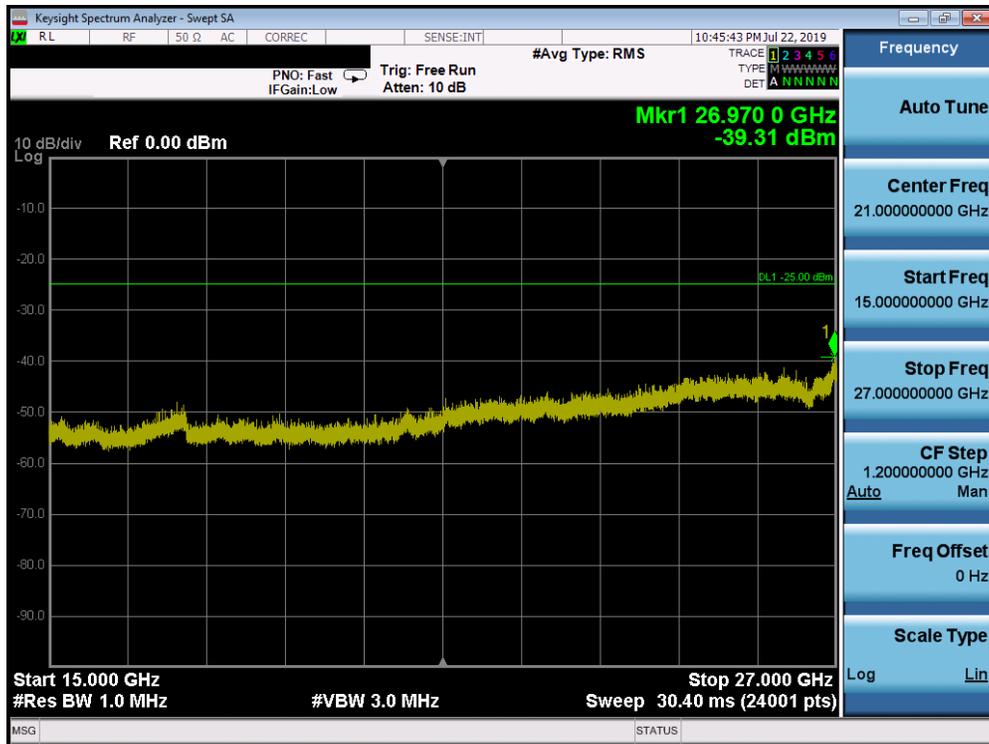


Plot 7-175. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-176. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 110 of 232 |



Plot 7-177. Conducted Spurious Plot (Band 41 PC3 - 20.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 111 of 232 |

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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

The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

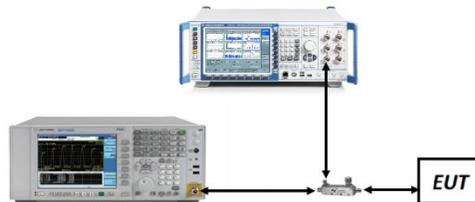


Figure 7-3. Test Instrument & Measurement Setup

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 112 of 232 |

Test Notes

Per 22.917(b) 24.238(a) 27.53(h) in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Per 27.53(g) for operations in the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

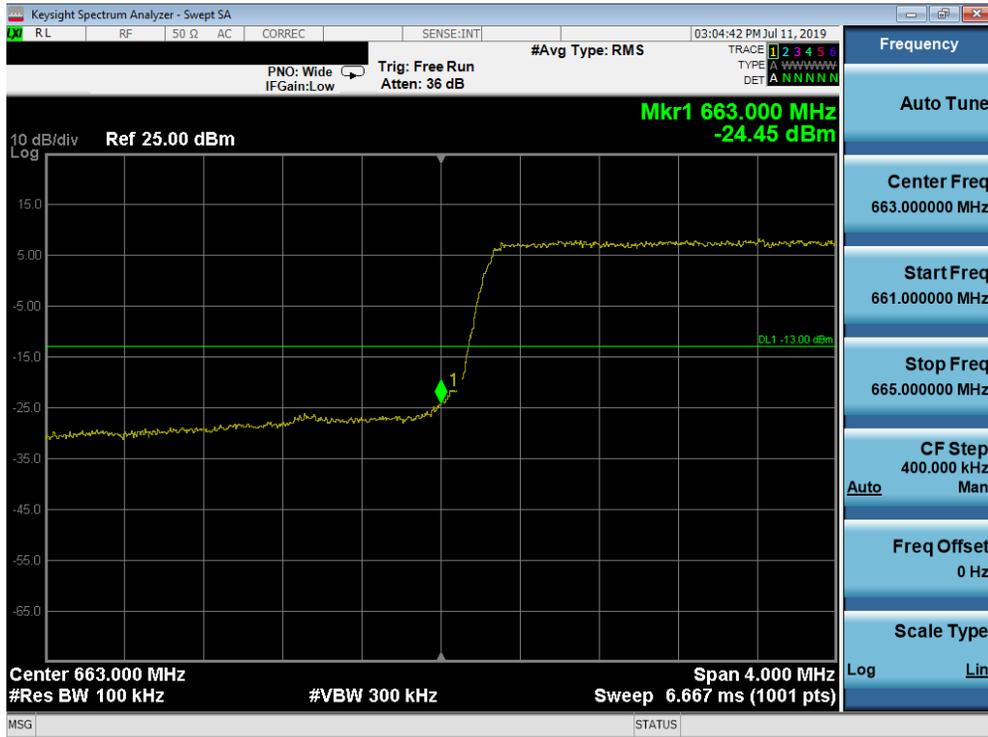
Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

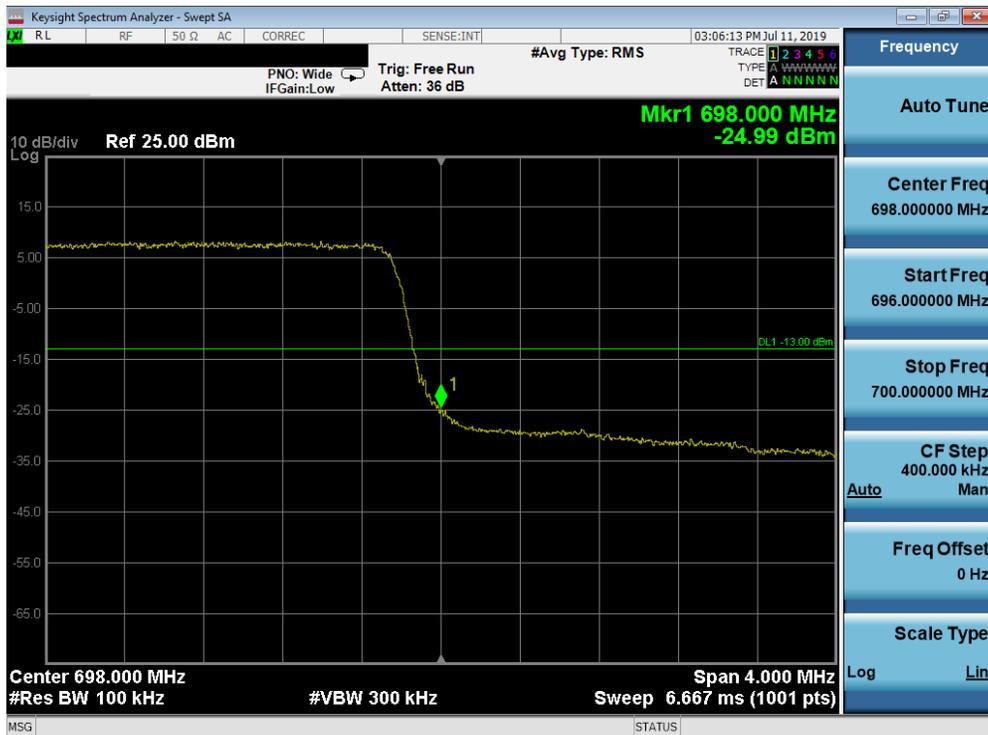
Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

| | | | | |
|--|---|---|---|--|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 113 of 232 |

Band 71

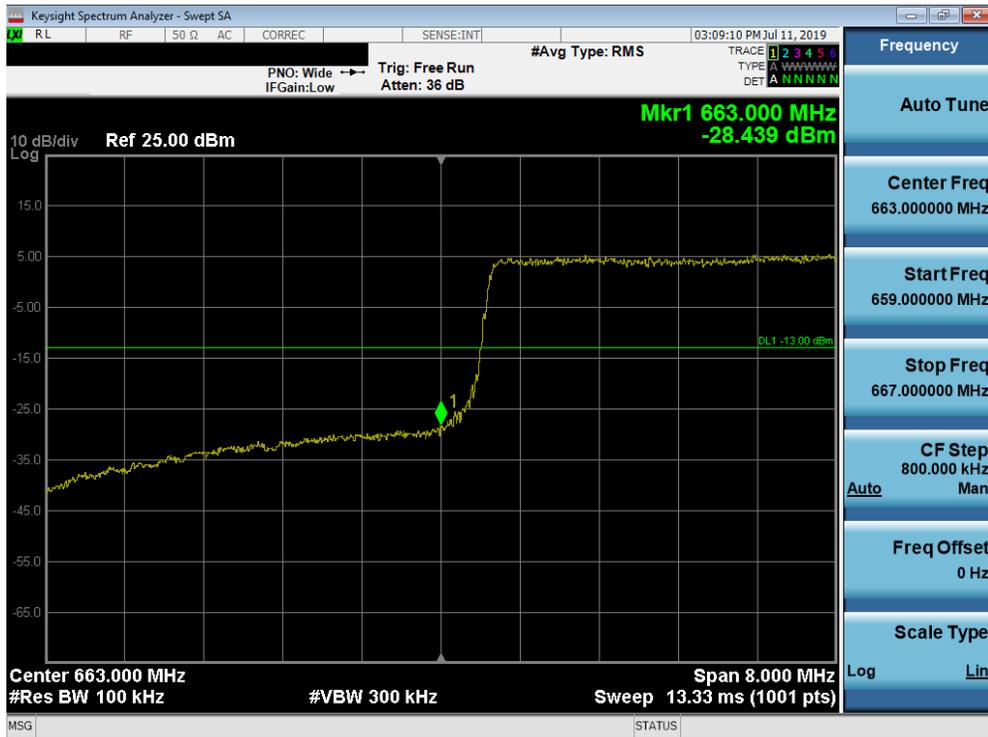


Plot 7-178. Lower Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

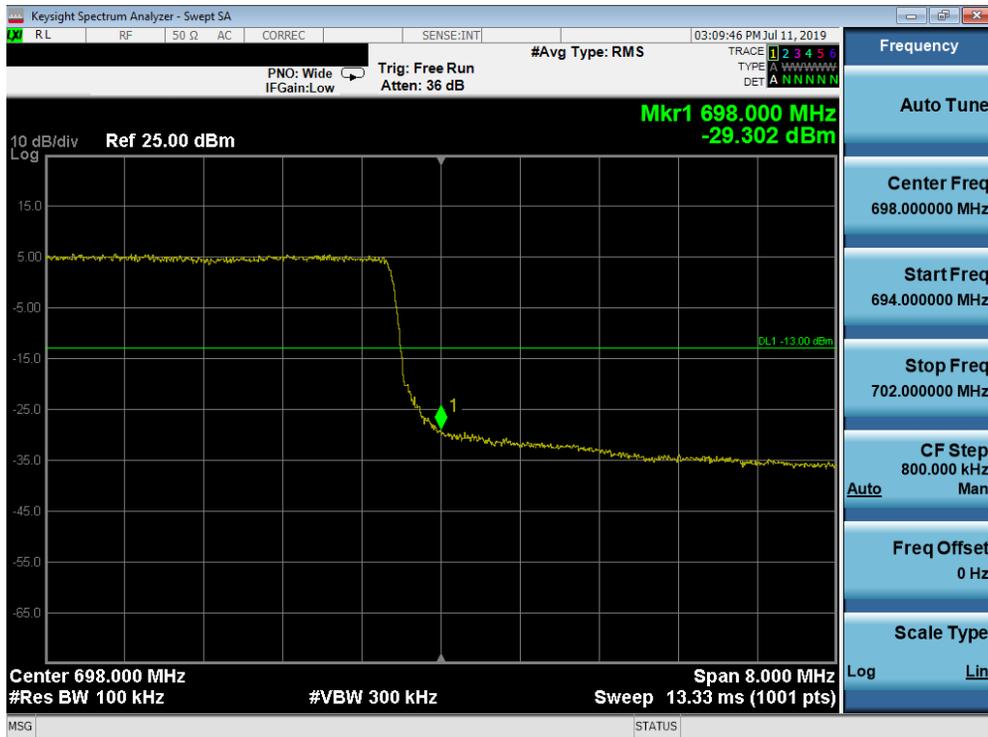


Plot 7-179. Upper Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|-------------------------------------|------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 114 of 232 |

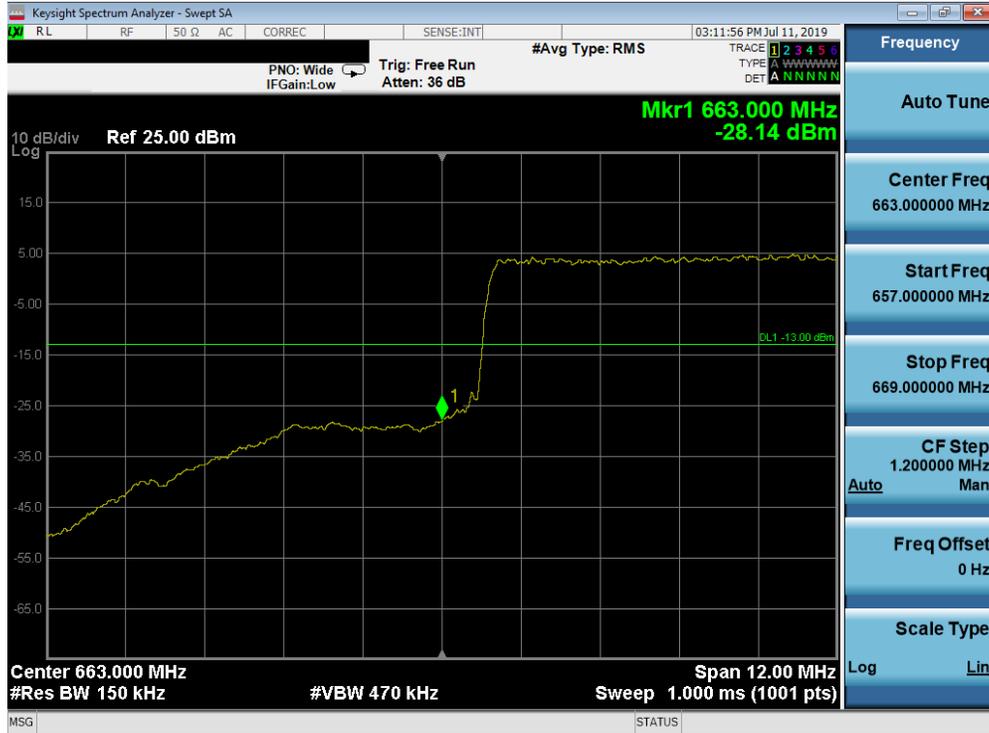


Plot 7-180. Lower Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

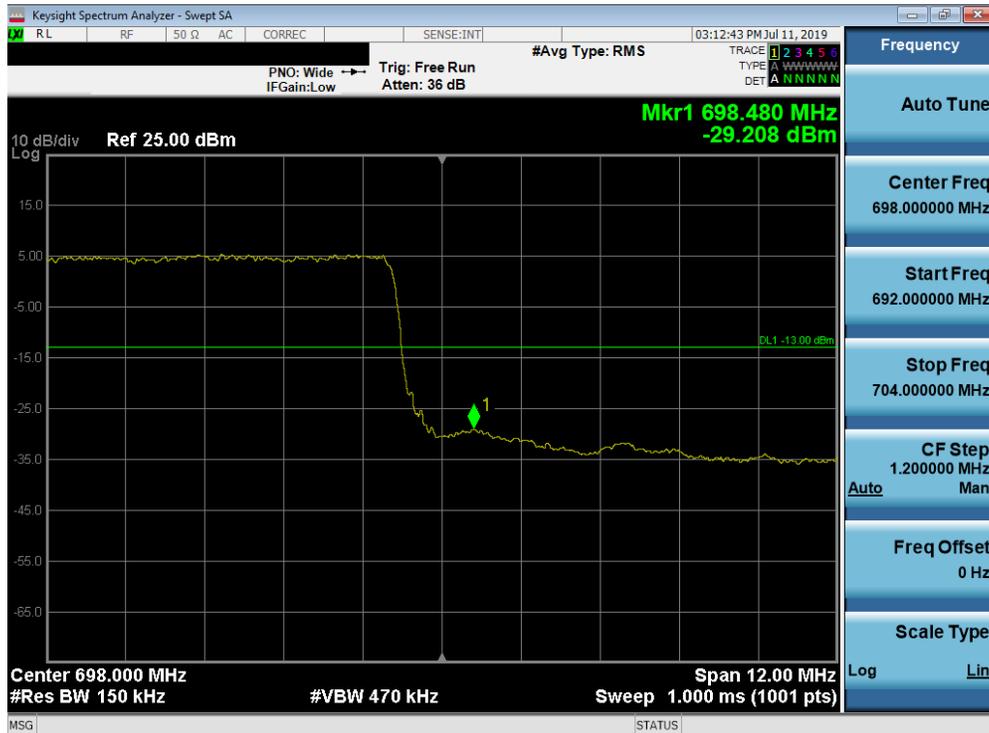


Plot 7-181. Upper Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 115 of 232 |



Plot 7-182. Lower Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

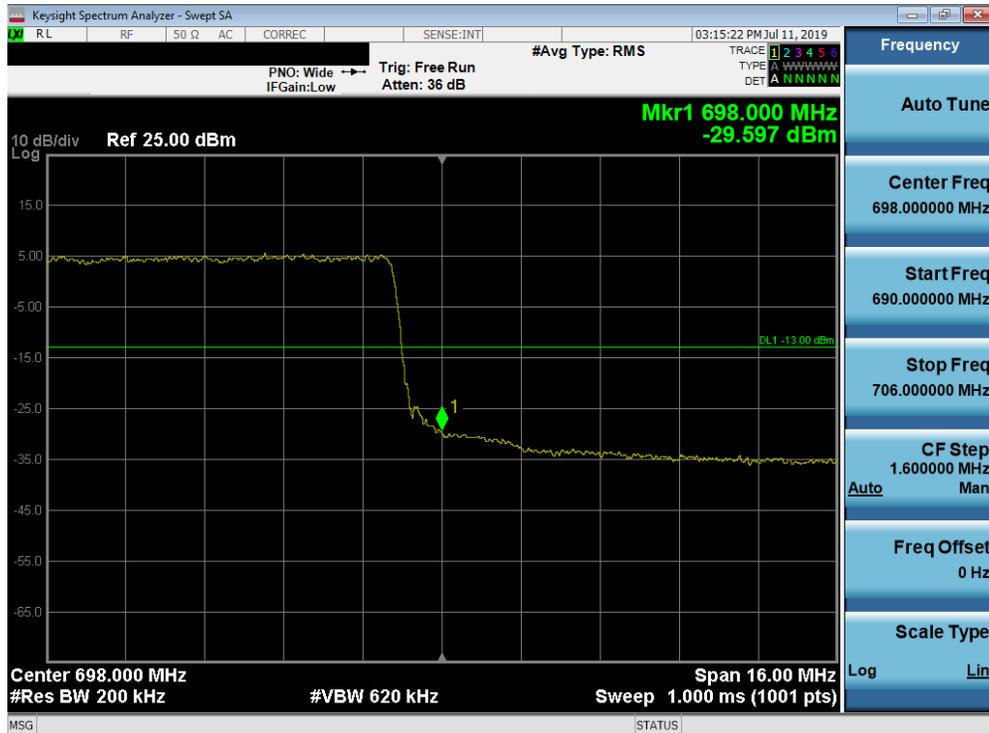


Plot 7-183. Upper Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 116 of 232 |



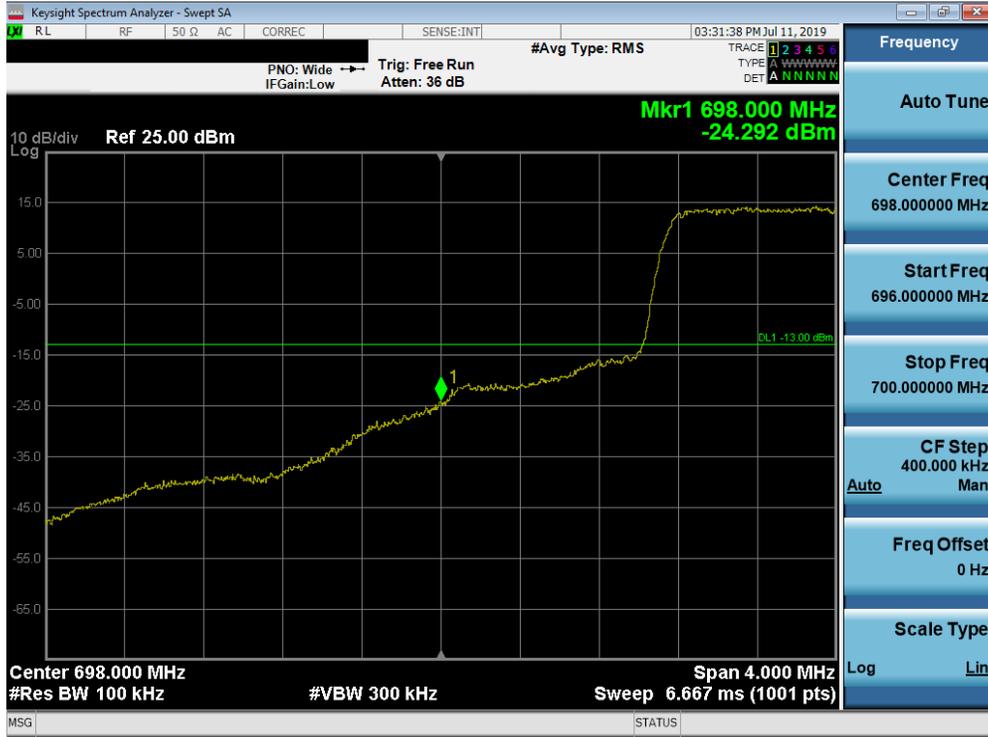
Plot 7-184. Lower Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-185. Upper Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 117 of 232 |

Band 12

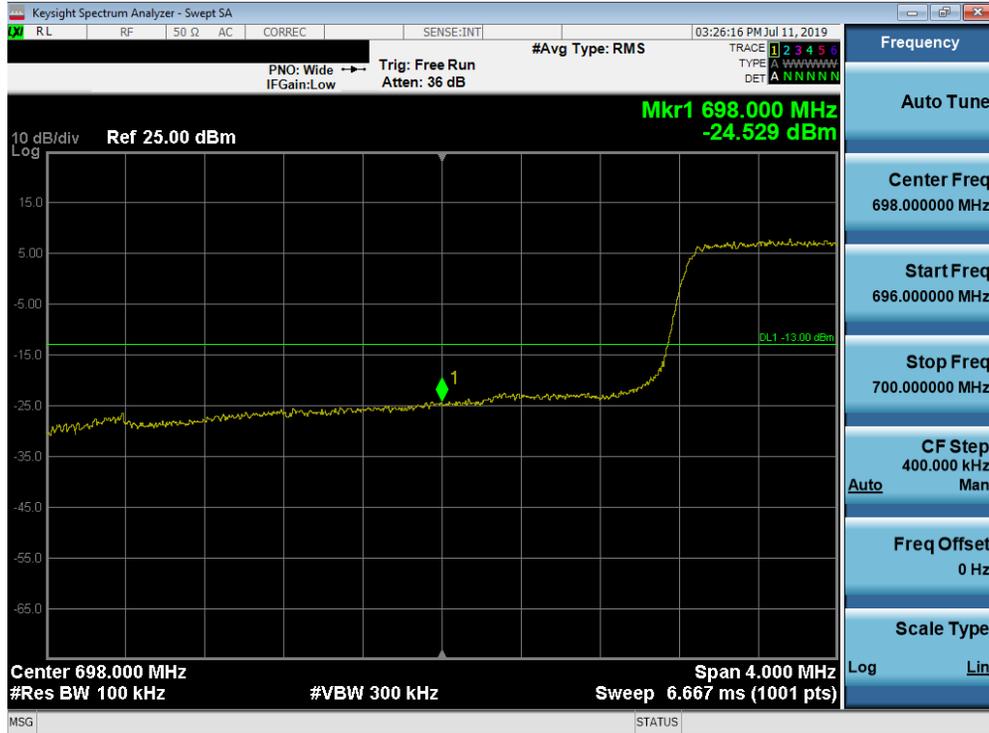


Plot 7-186. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-187. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 118 of 232 |



Plot 7-190. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-191. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 120 of 232 |



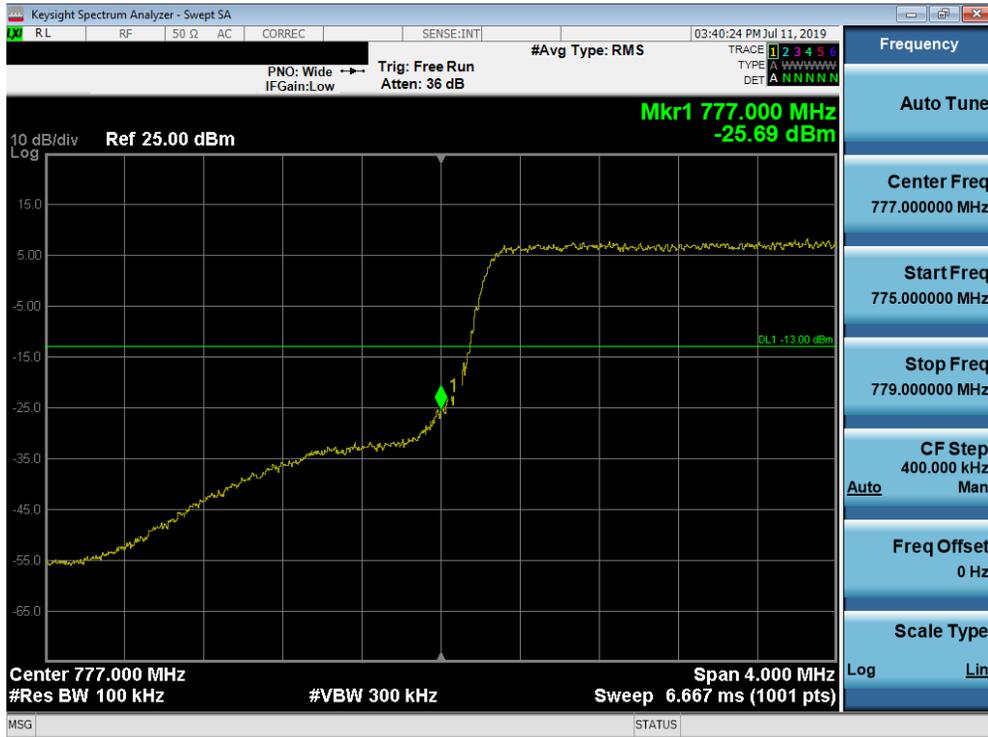
Plot 7-192. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)



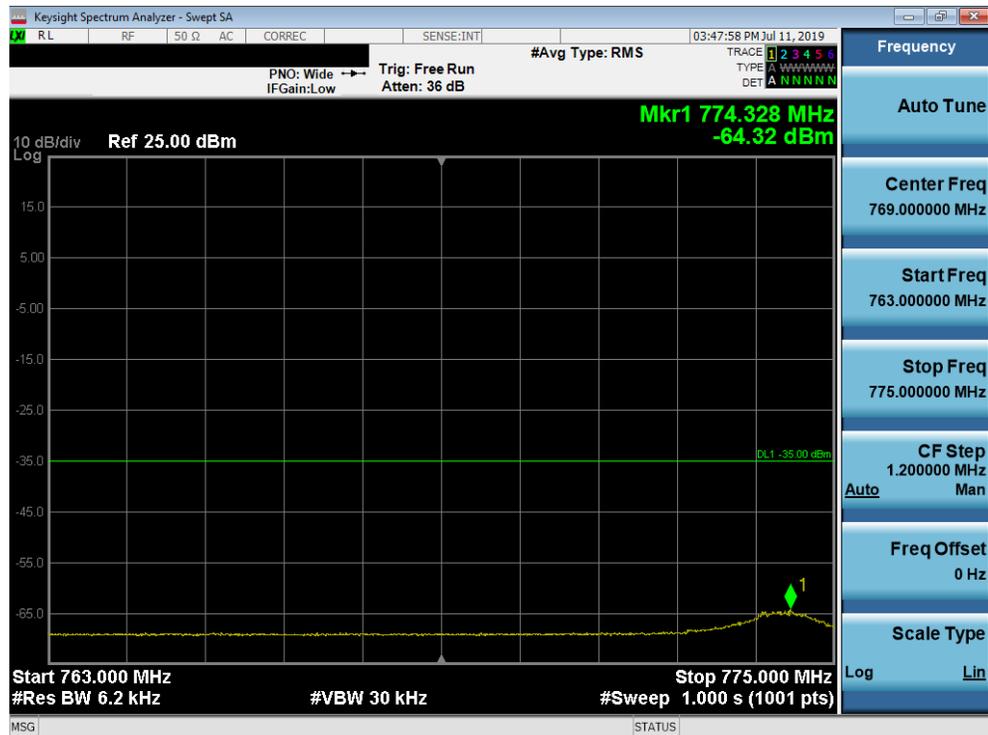
Plot 7-193. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 121 of 232 |

Band 13



Plot 7-194. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

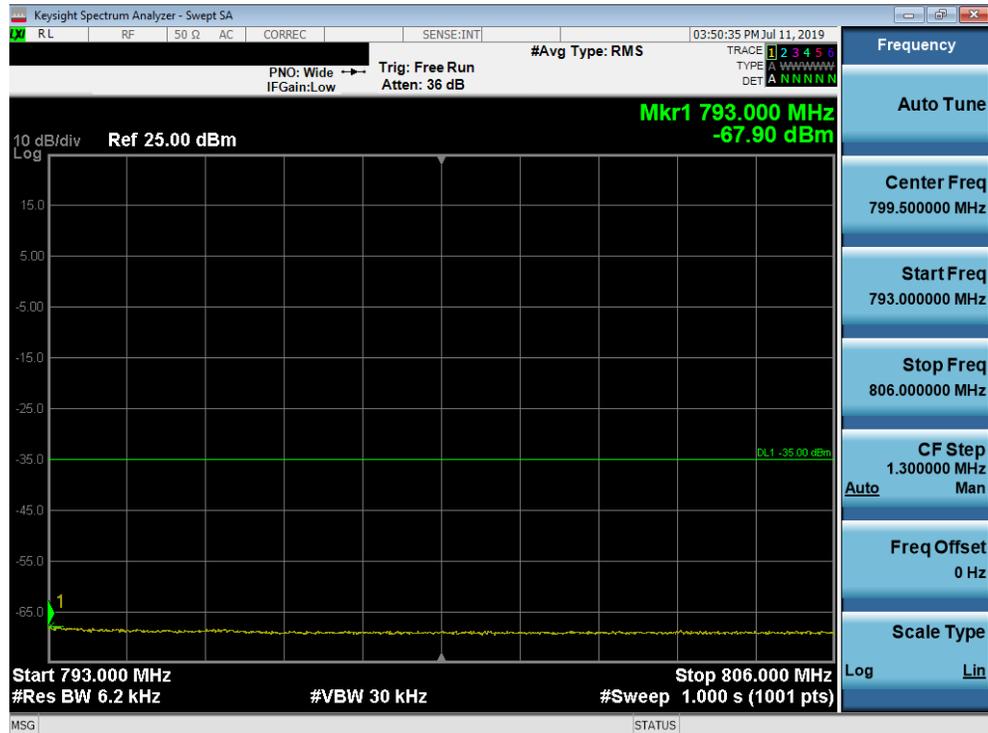


Plot 7-195. Lower Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 122 of 232 |

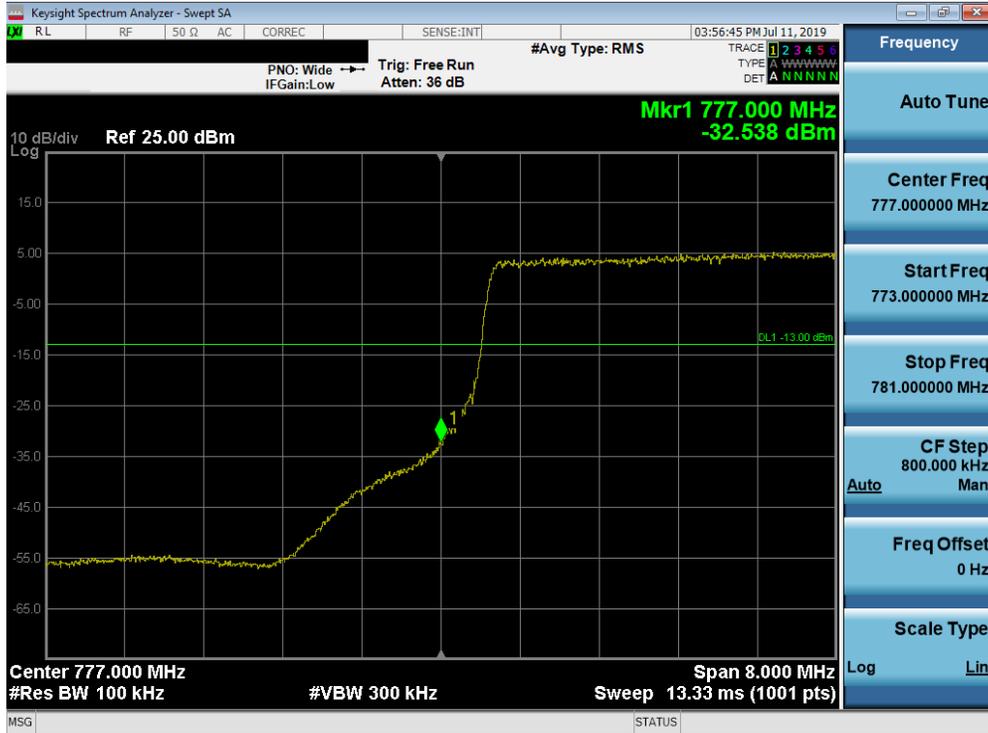


Plot 7-196. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

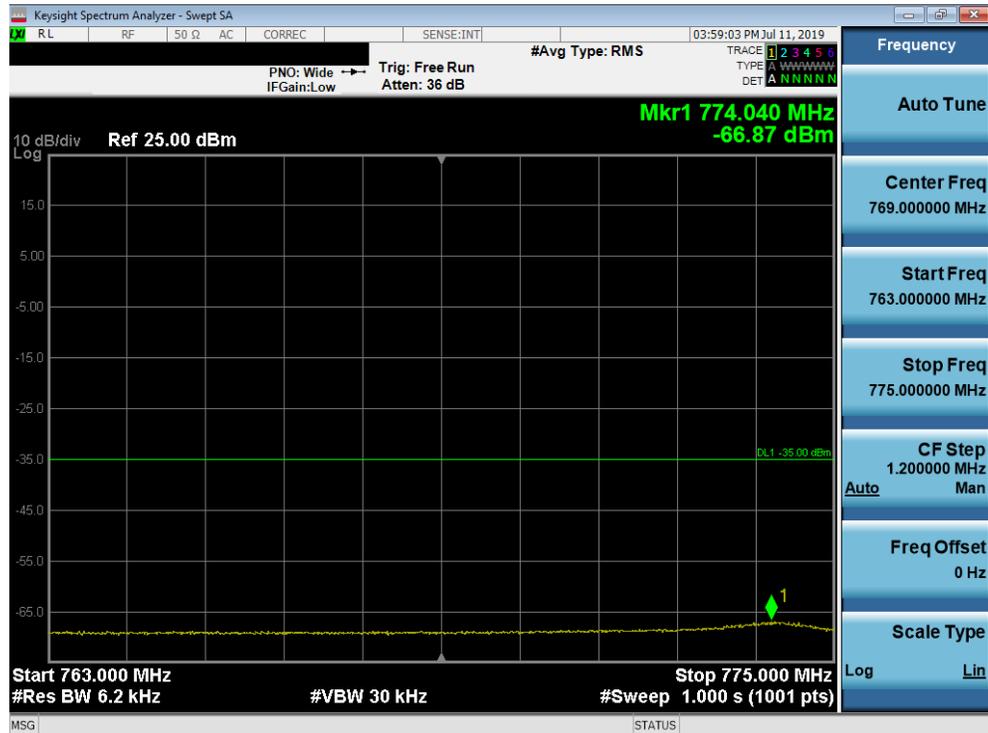


Plot 7-197. Upper Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 123 of 232 |

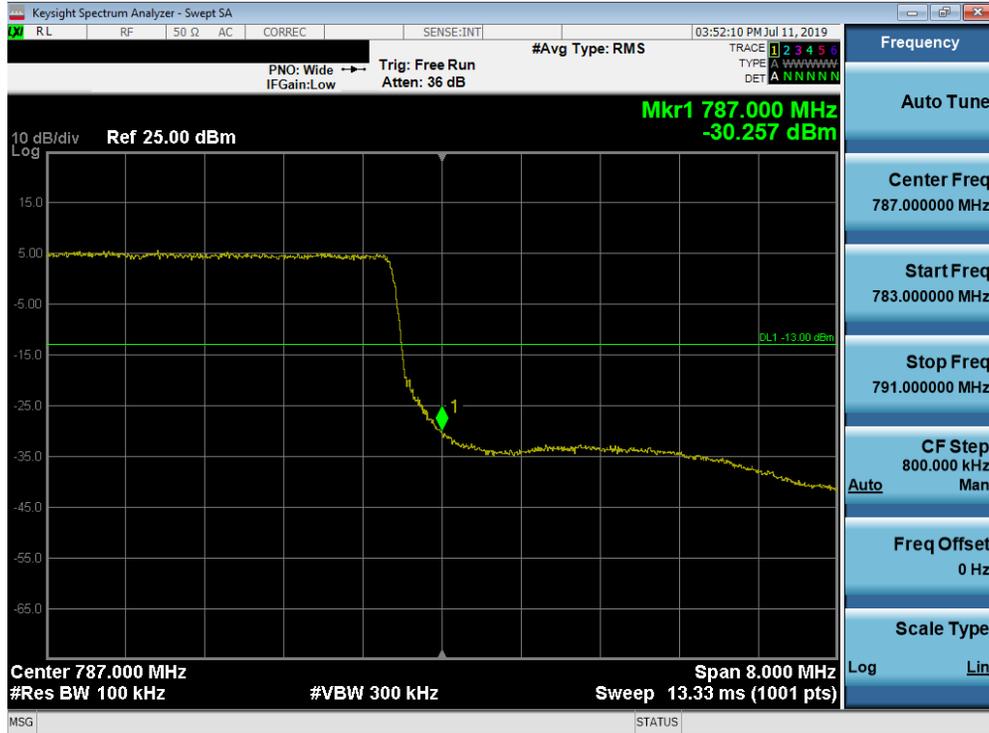


Plot 7-198. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

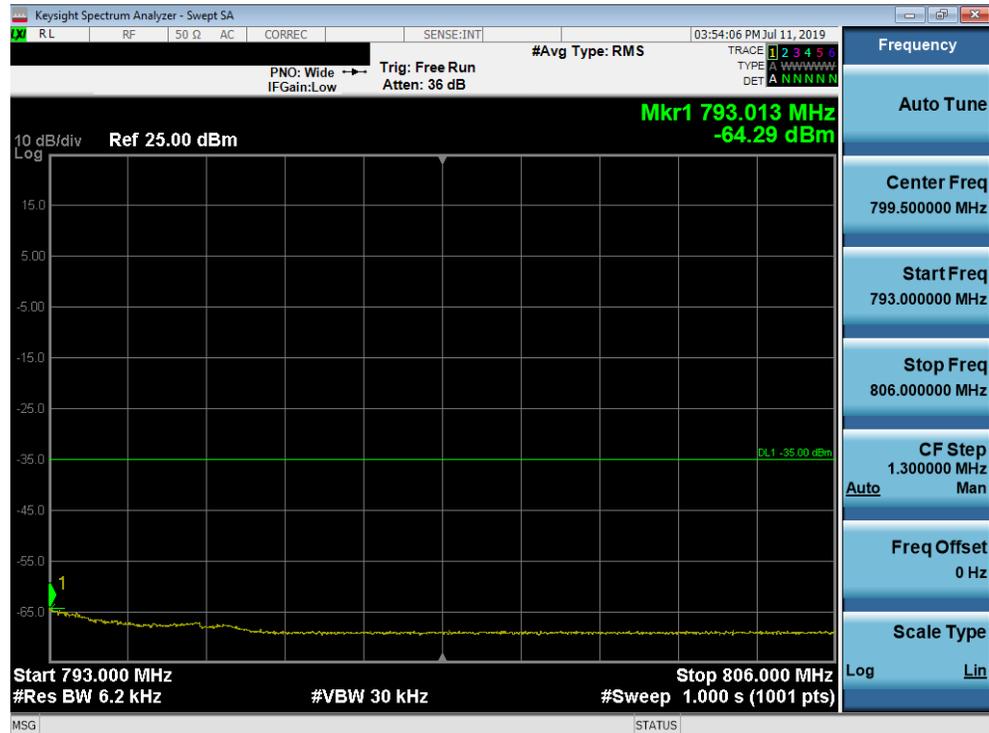


Plot 7-199. Lower Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 124 of 232 |



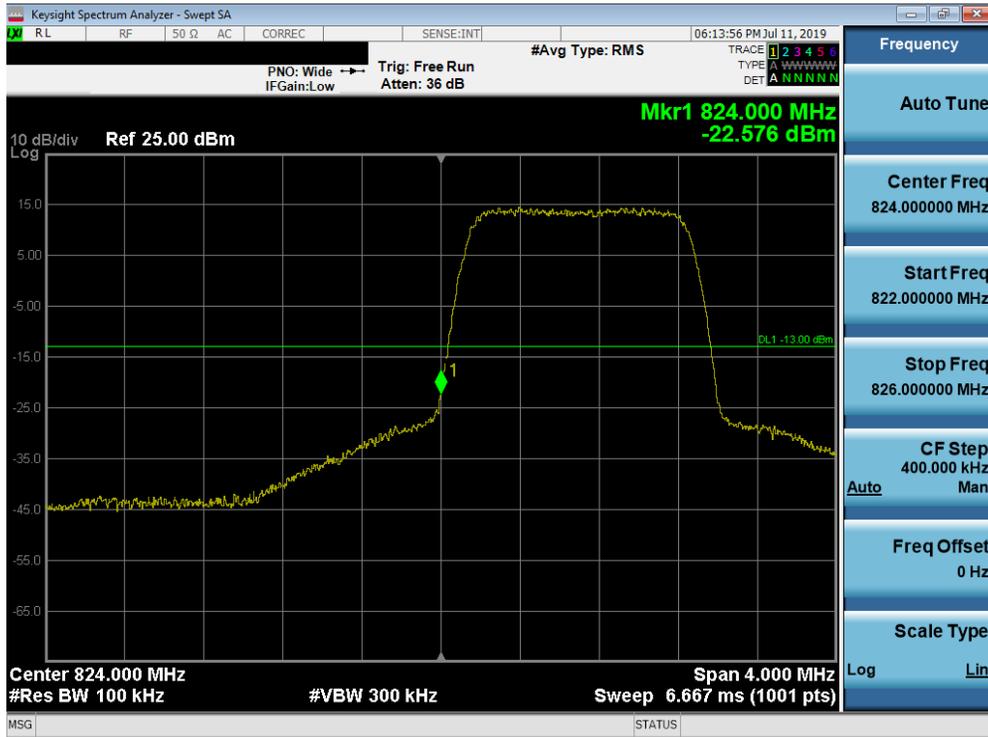
Plot 7-200. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



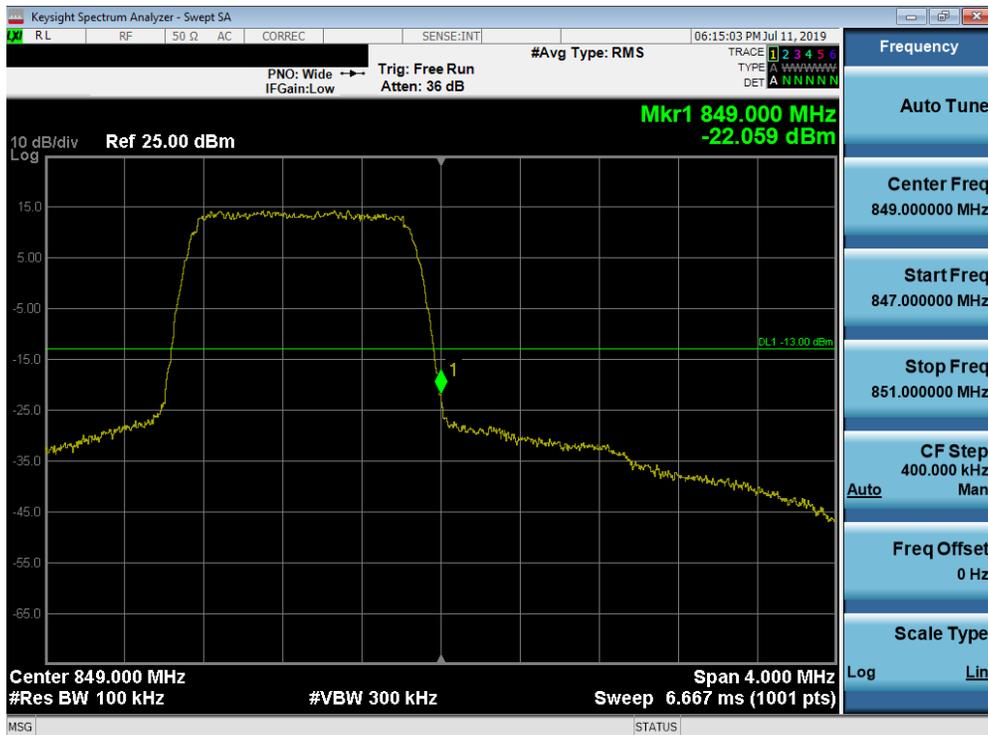
Plot 7-201. Upper Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 125 of 232 |

Band 26/5

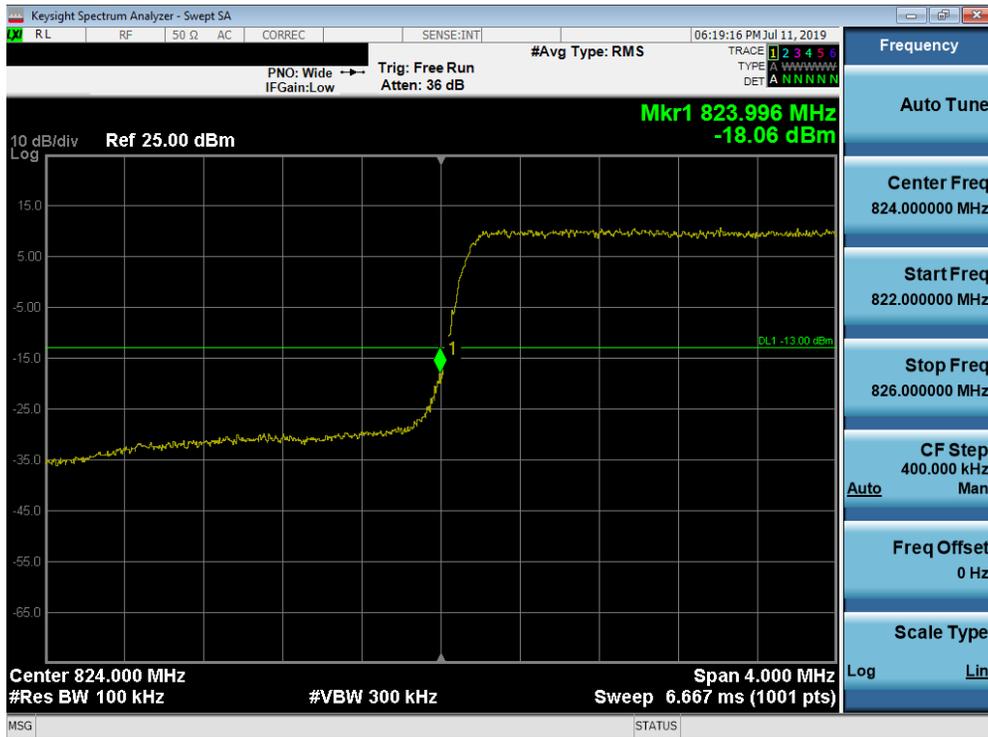


Plot 7-202. Lower Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-203. Upper Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 126 of 232 |

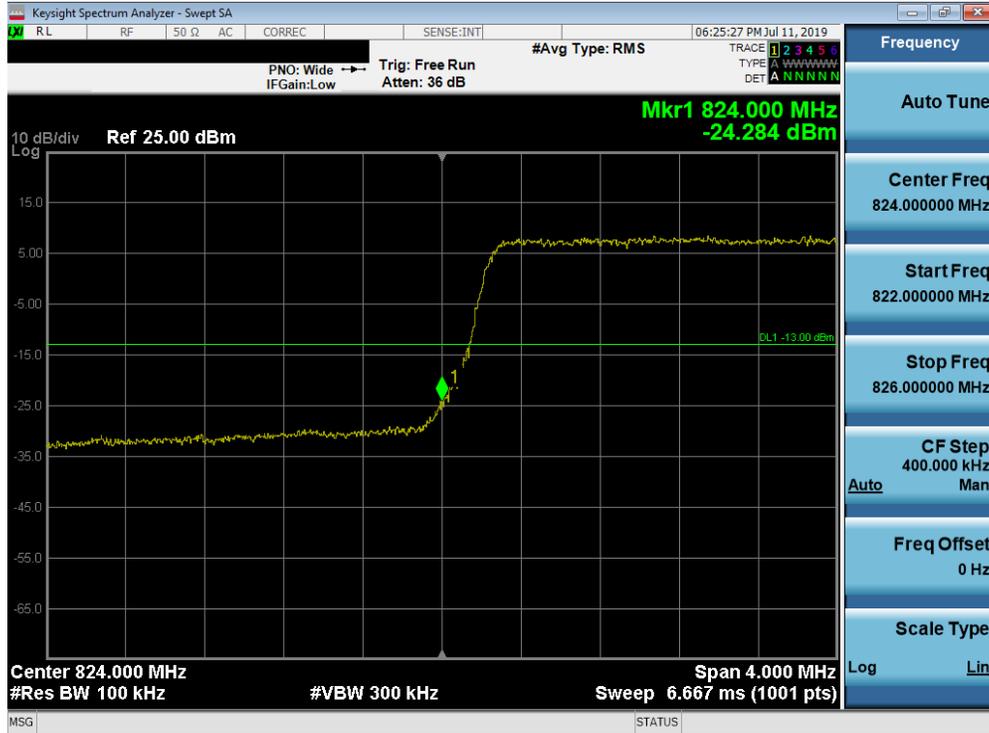


Plot 7-204. Lower Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)

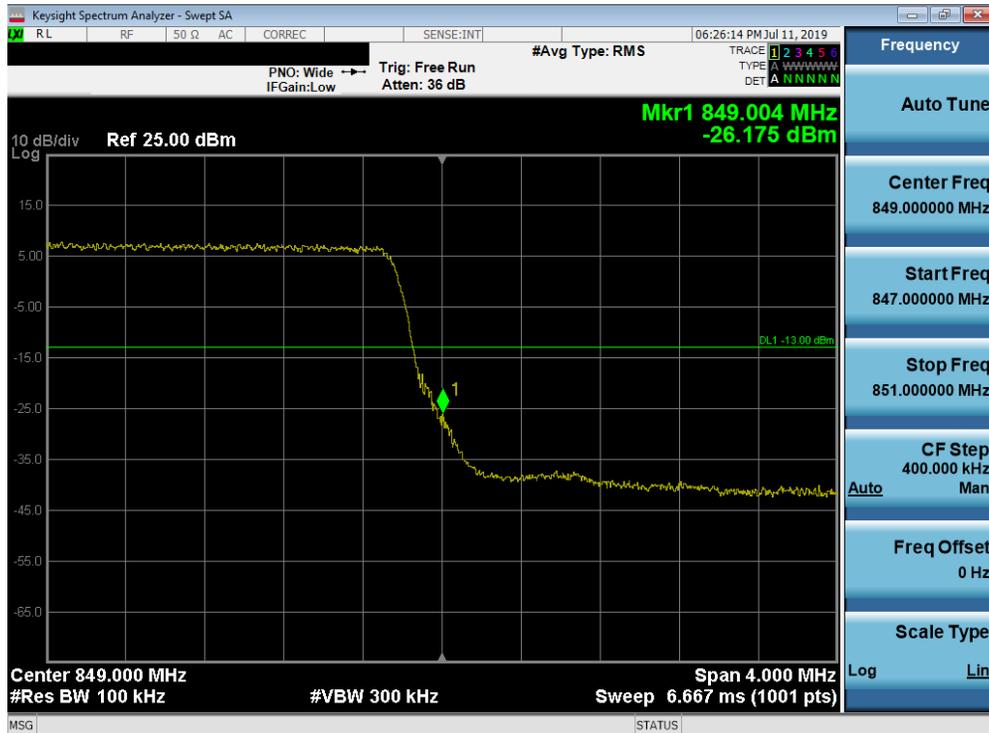


Plot 7-205. Upper Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 127 of 232 |



Plot 7-206. Lower Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-207. Upper Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFT600US | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 128 of 232 |



Plot 7-210. Lower Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)



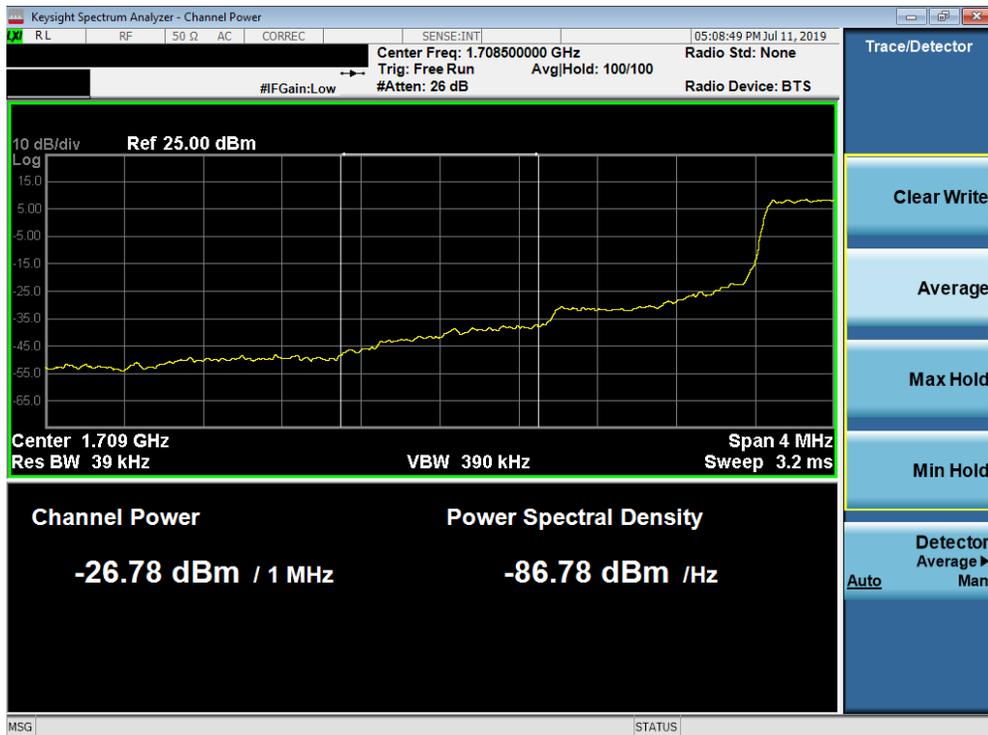
Plot 7-211. Upper Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 130 of 232 |

Band 66/4



Plot 7-212. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

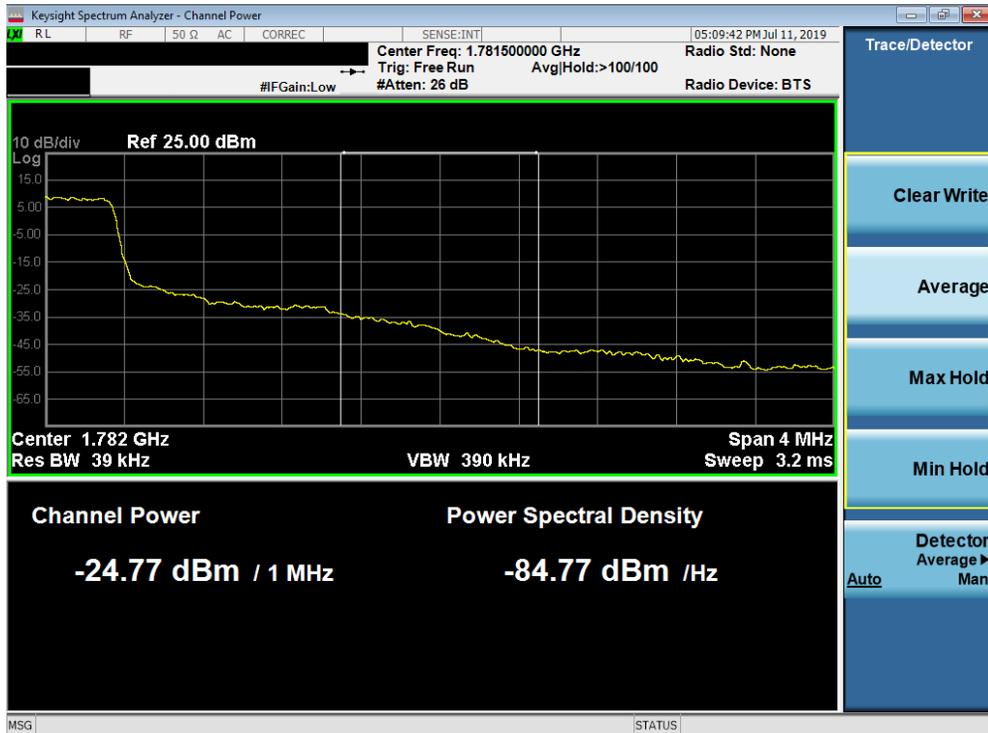


Plot 7-213. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 131 of 232 |

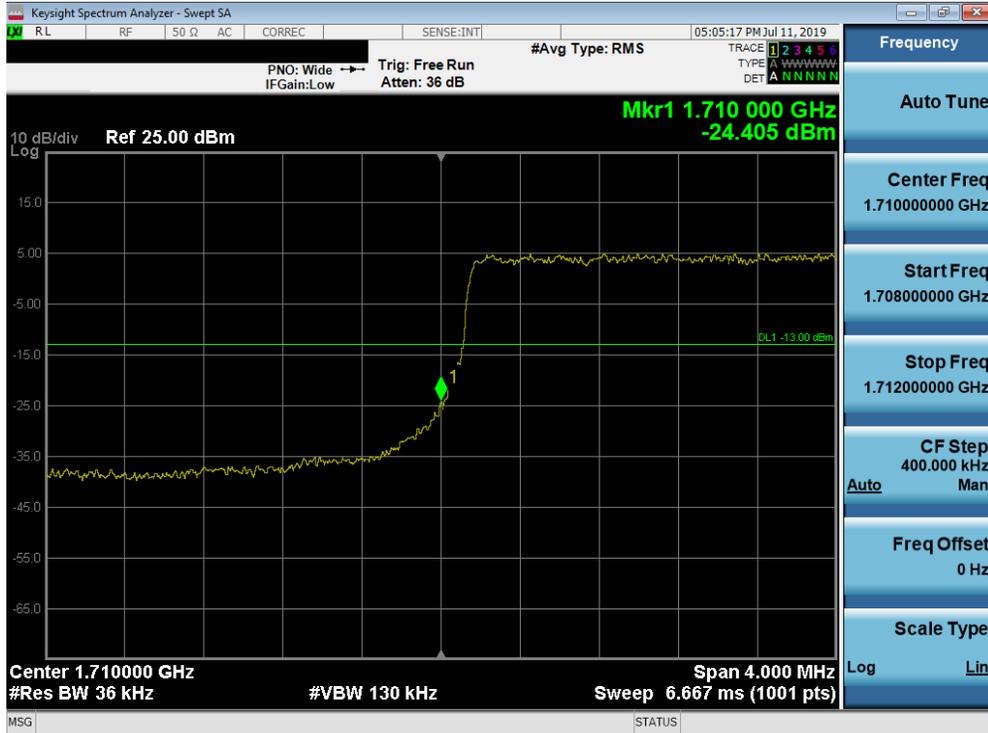


Plot 7-216. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

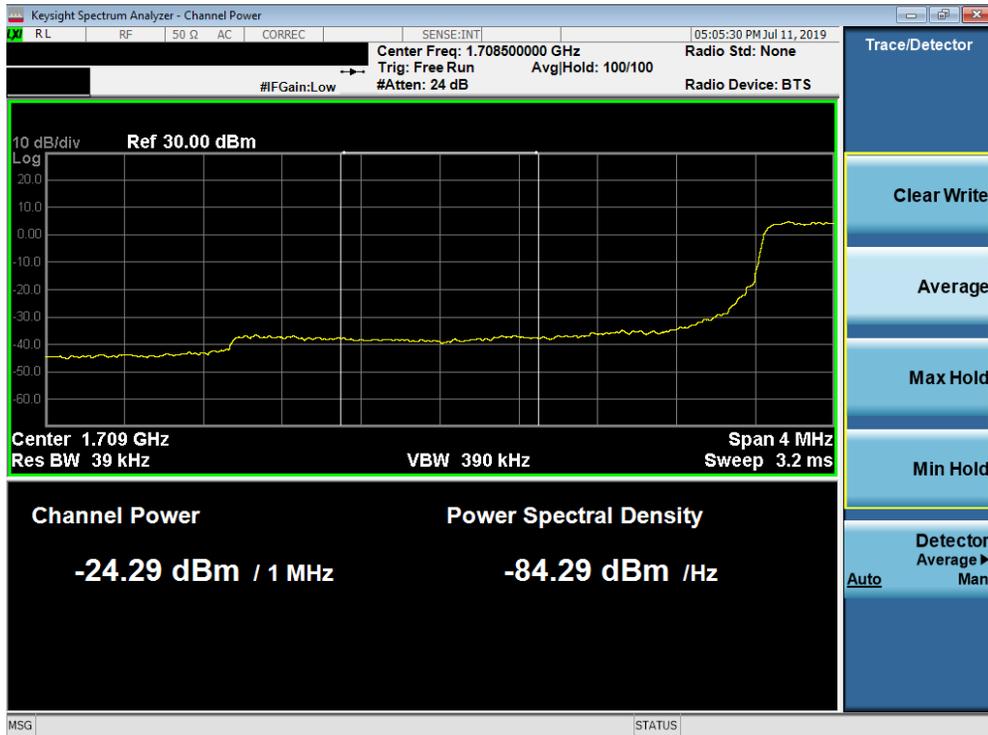


Plot 7-217. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 133 of 232 |



Plot 7-218. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

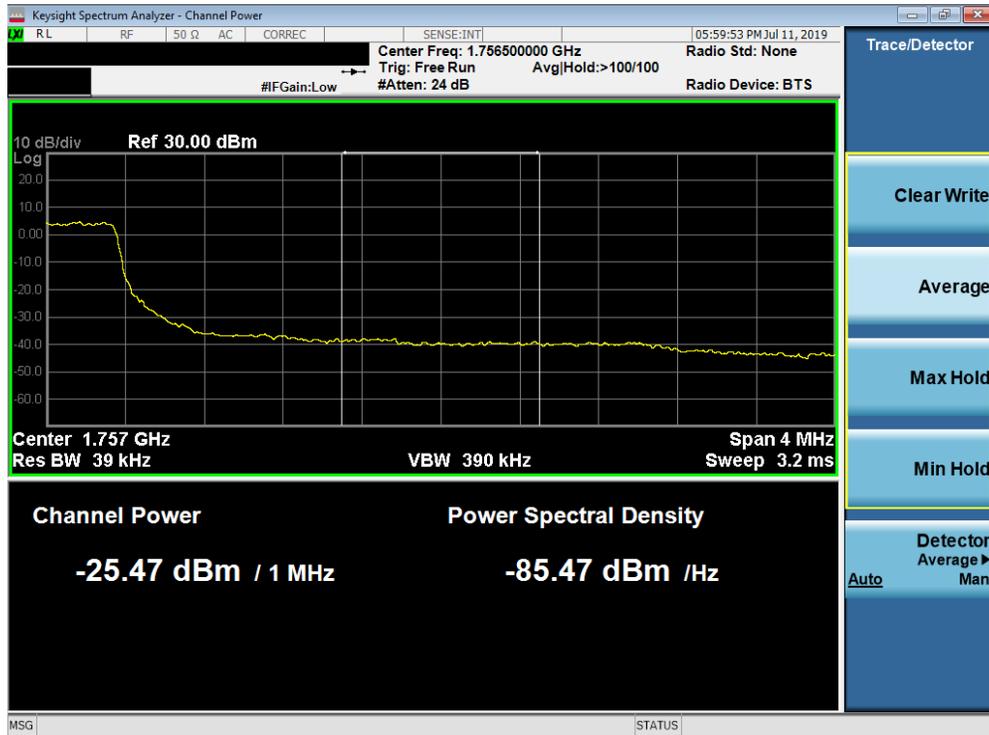


Plot 7-219. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 134 of 232 |



Plot 7-220. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

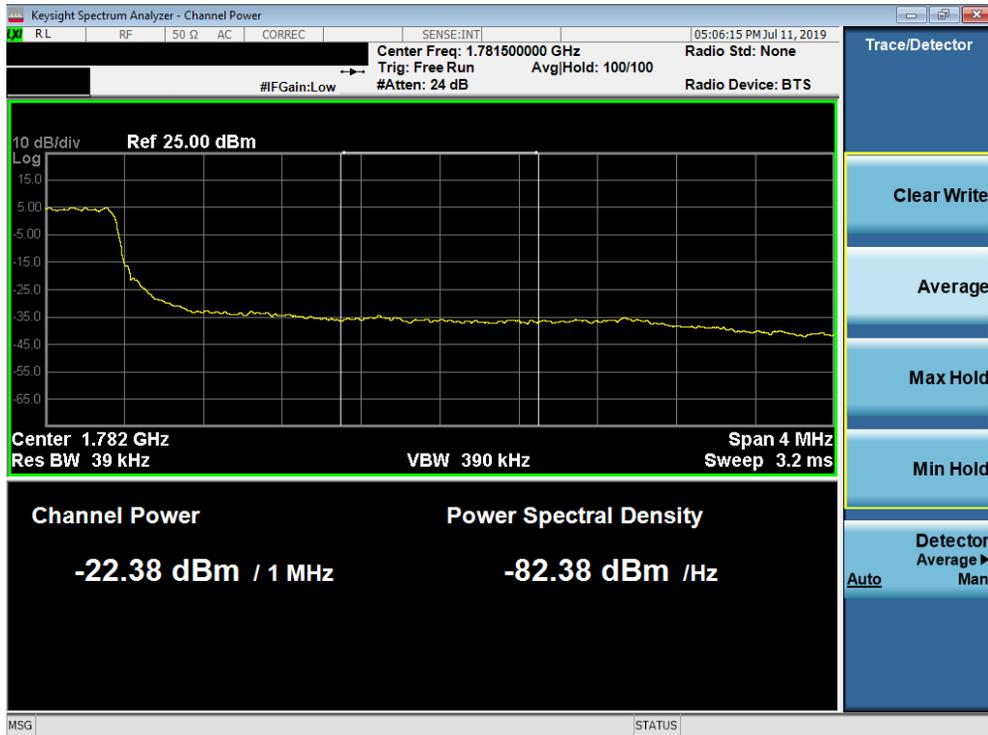


Plot 7-221. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 135 of 232 |

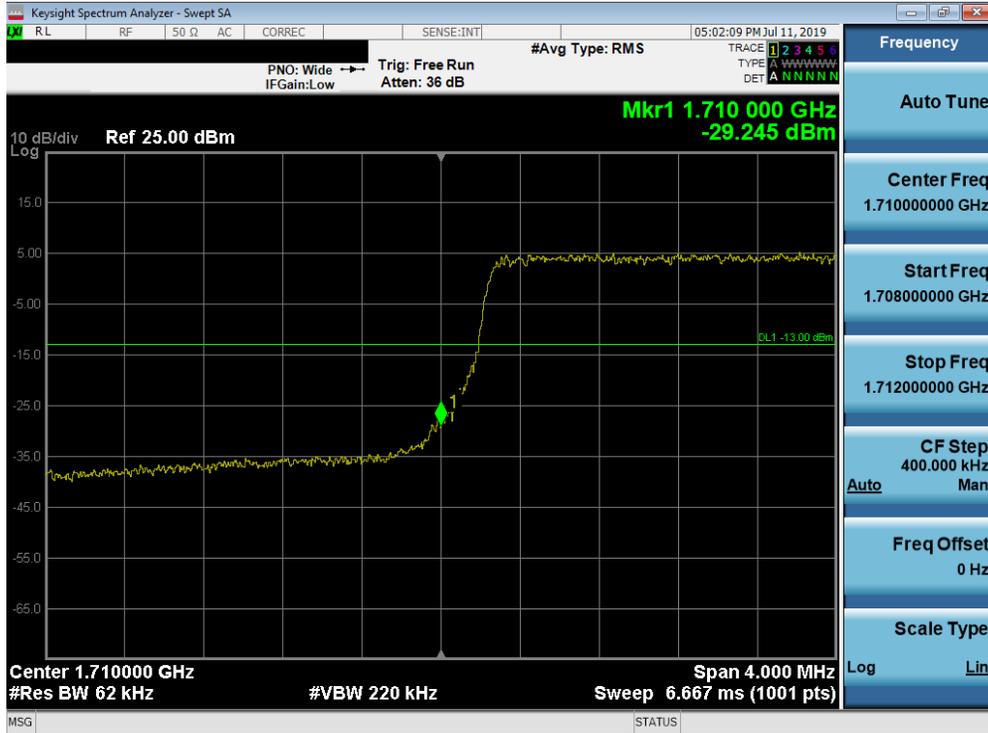


Plot 7-222. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

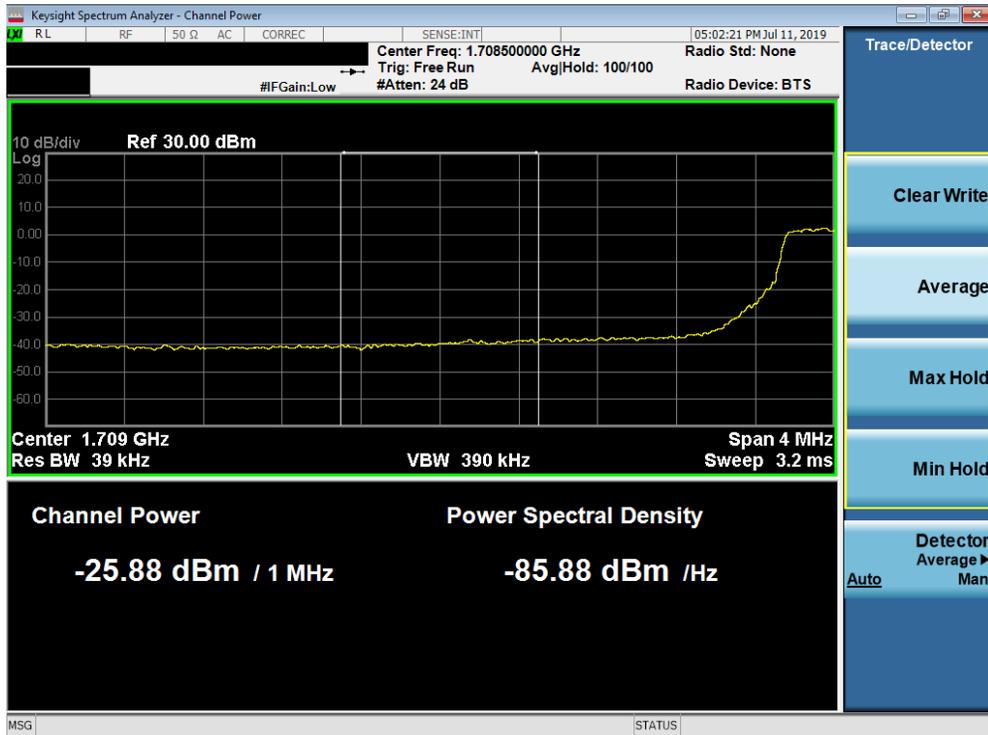


Plot 7-223. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 136 of 232 |



Plot 7-224. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

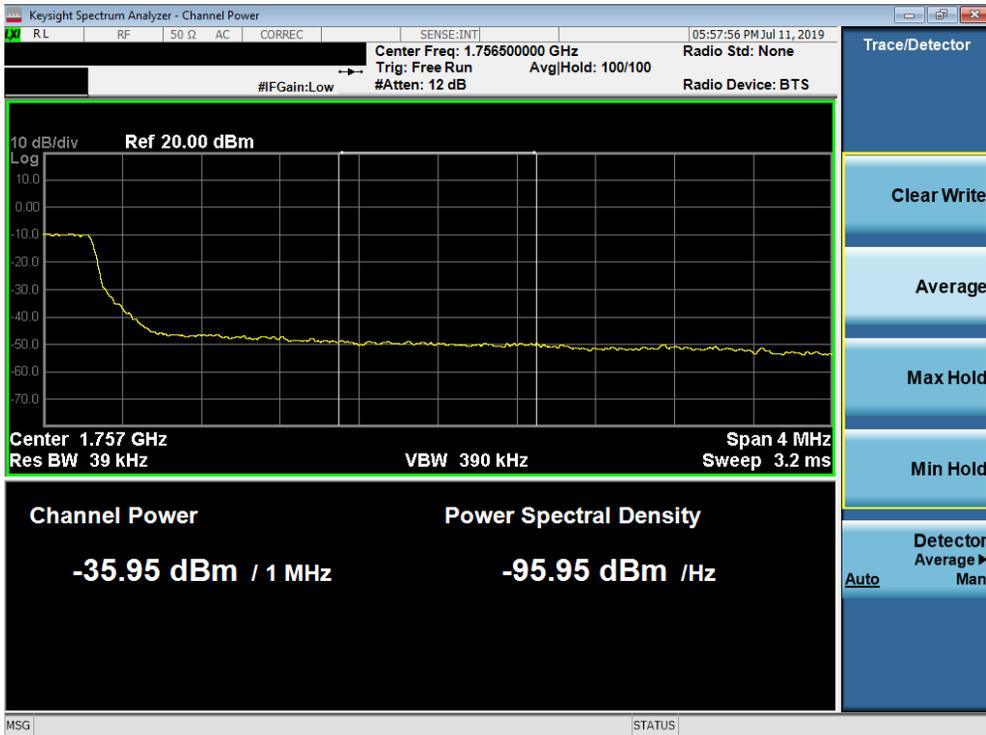


Plot 7-225. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 137 of 232 |

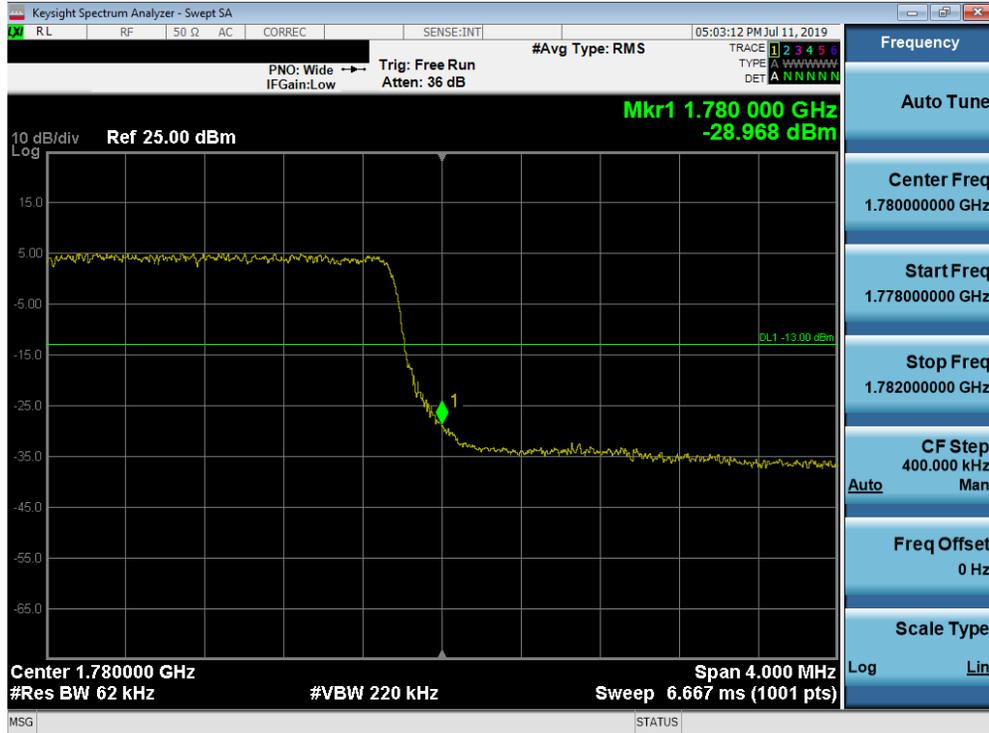


Plot 7-226. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

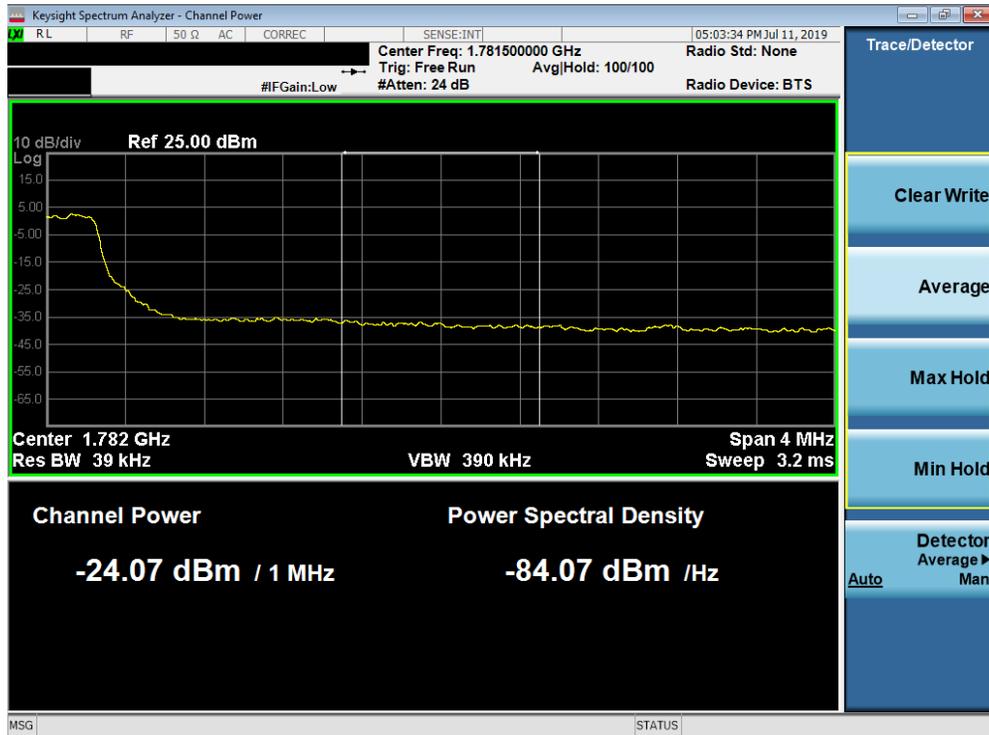


Plot 7-227. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|---|---------------------------------------|---|---------------------------------|
| FCC ID: ZNFT600US |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 138 of 232 |

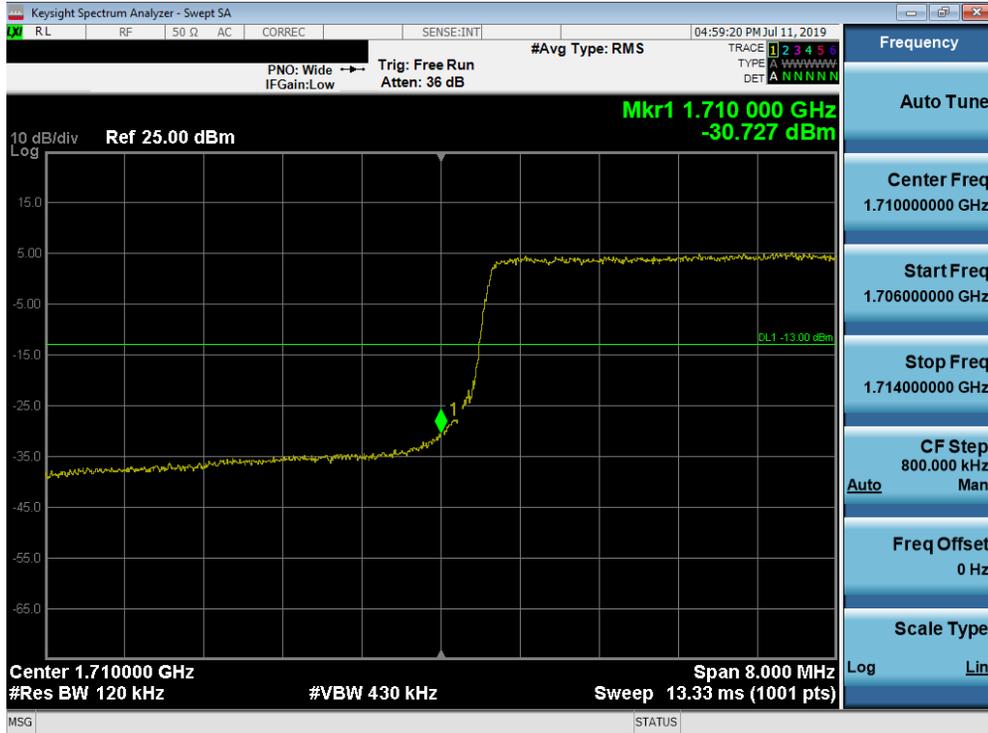


Plot 7-228. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

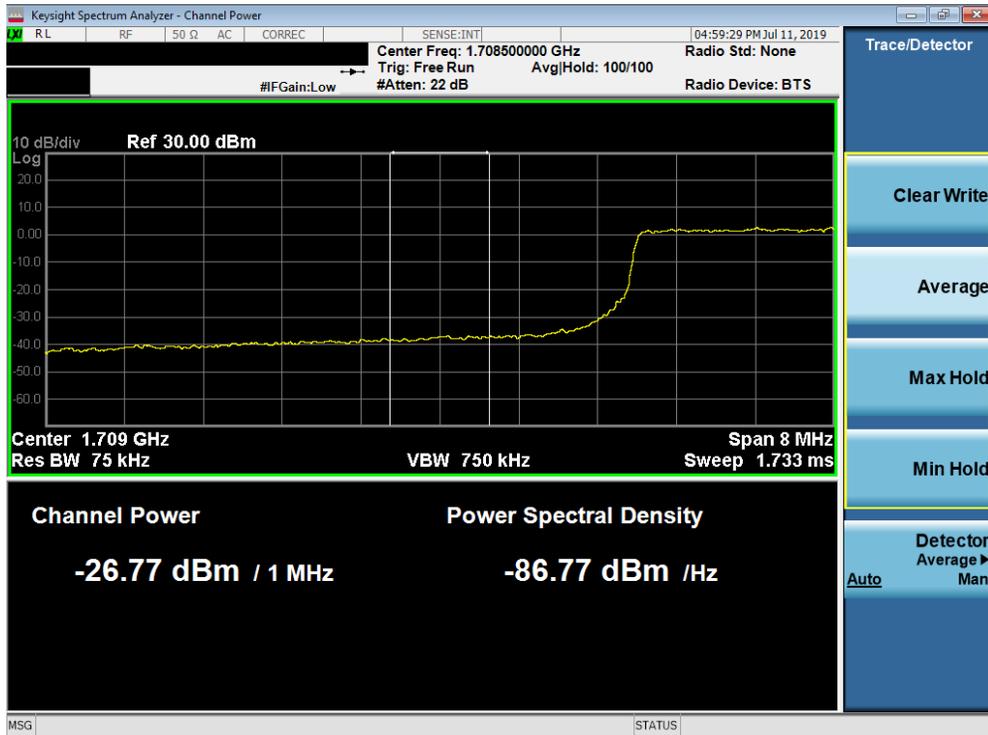


Plot 7-229. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 139 of 232 |

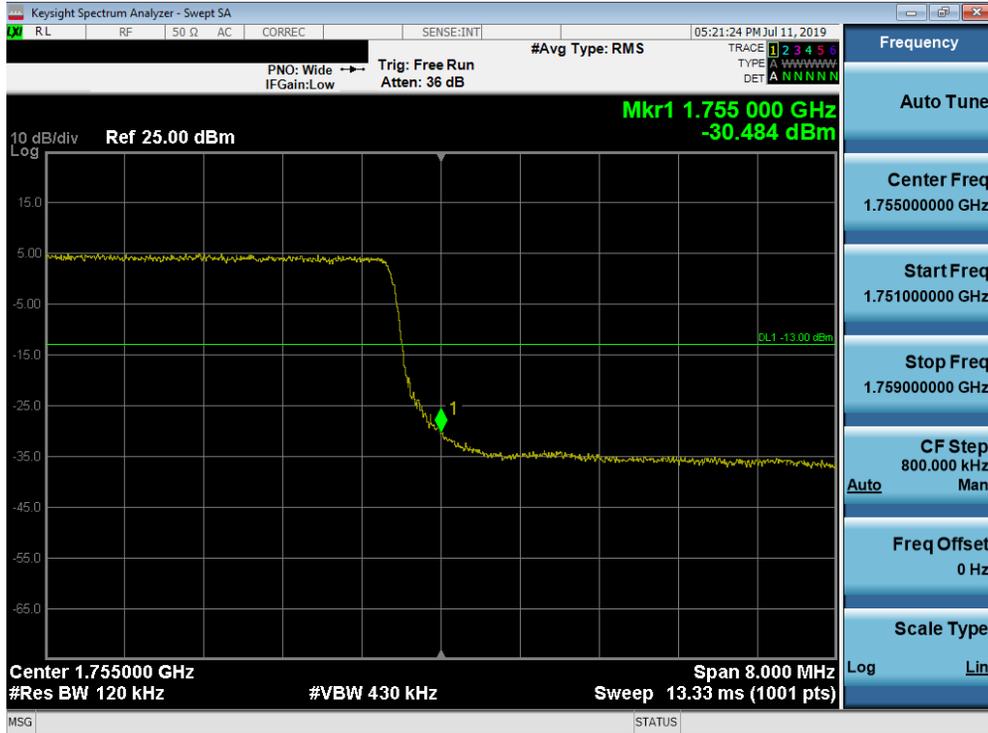


Plot 7-230. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

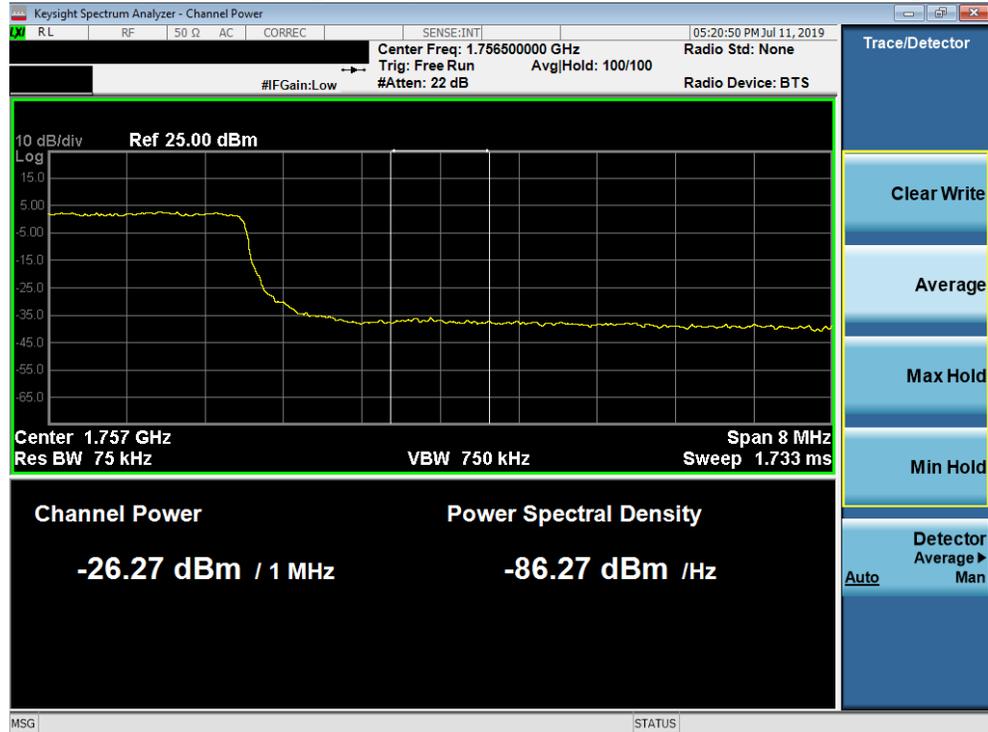


Plot 7-231. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 140 of 232 |

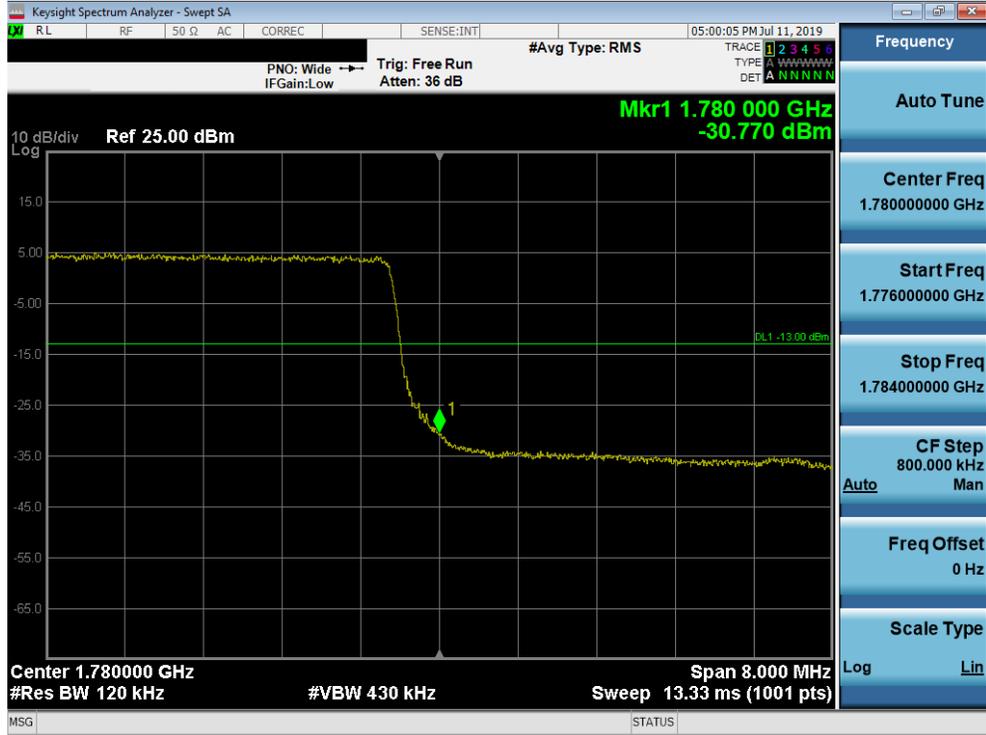


Plot 7-232. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

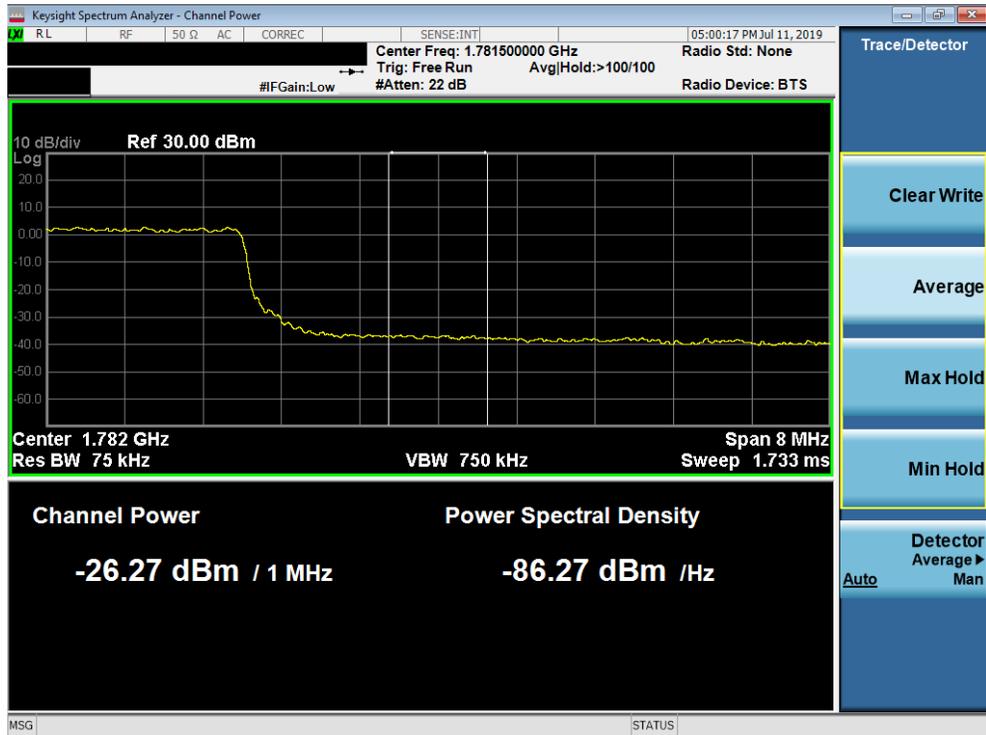


Plot 7-233. Upper Expected Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 141 of 232 |



Plot 7-234. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-235. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

| | | | | |
|---|--|---------------------------------------|----|---------------------------------|
| FCC ID: ZNFT600US | PCTEST ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
| Test Report S/N: 1M1907050112-03.ZNF | Test Dates: 7/8 - 7/23/2019 | EUT Type: Portable Tablet | | Page 142 of 232 |