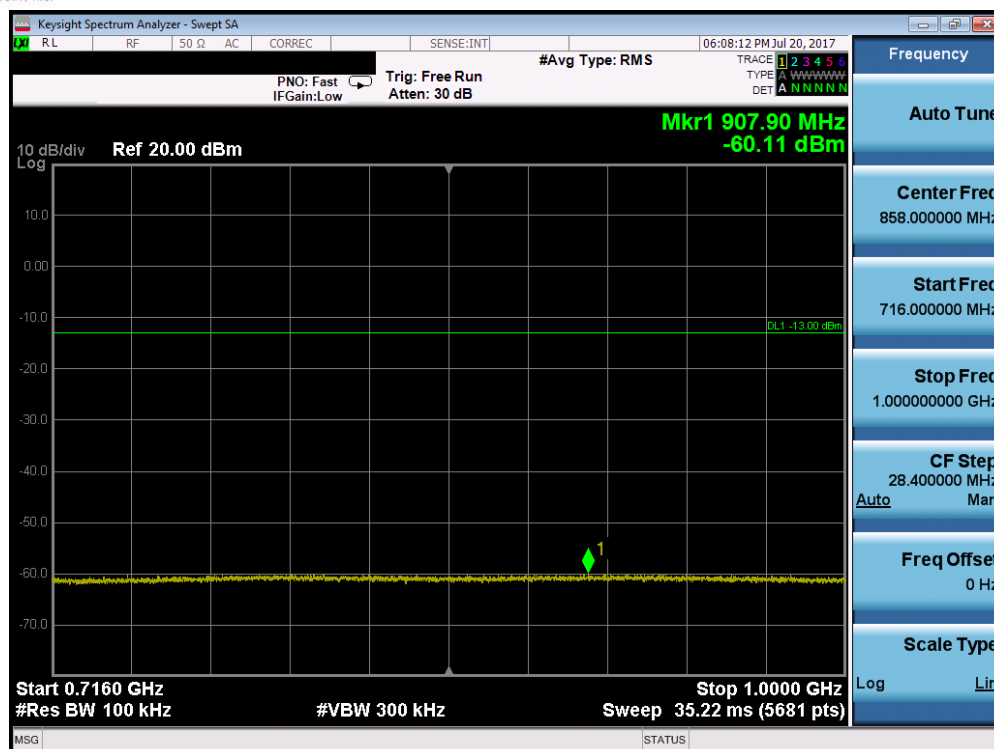
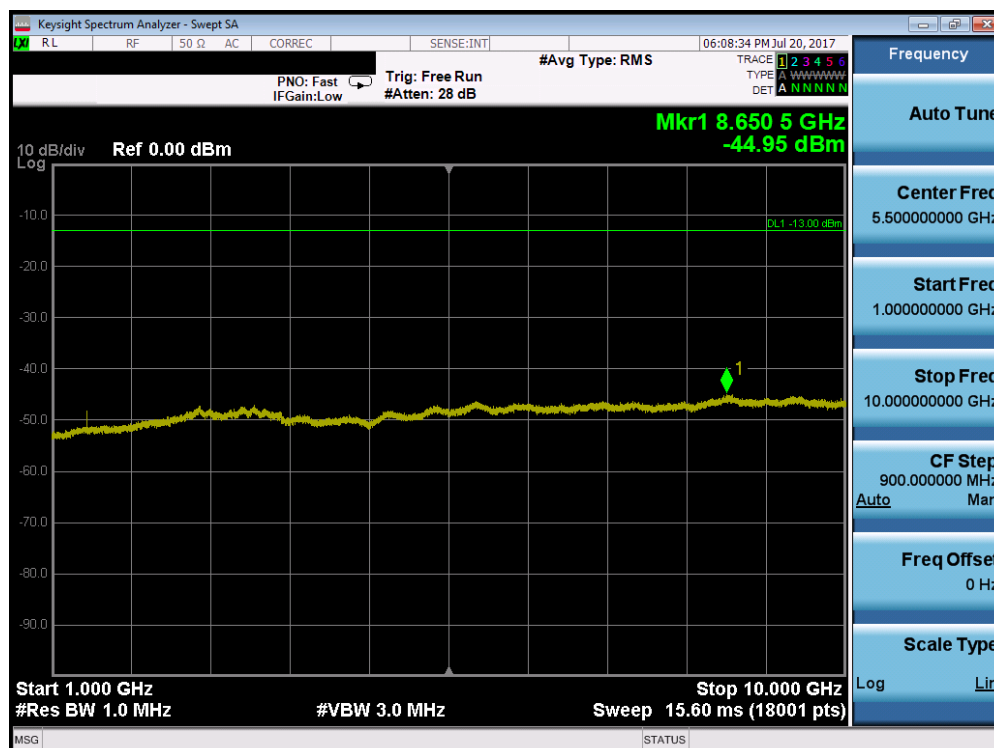


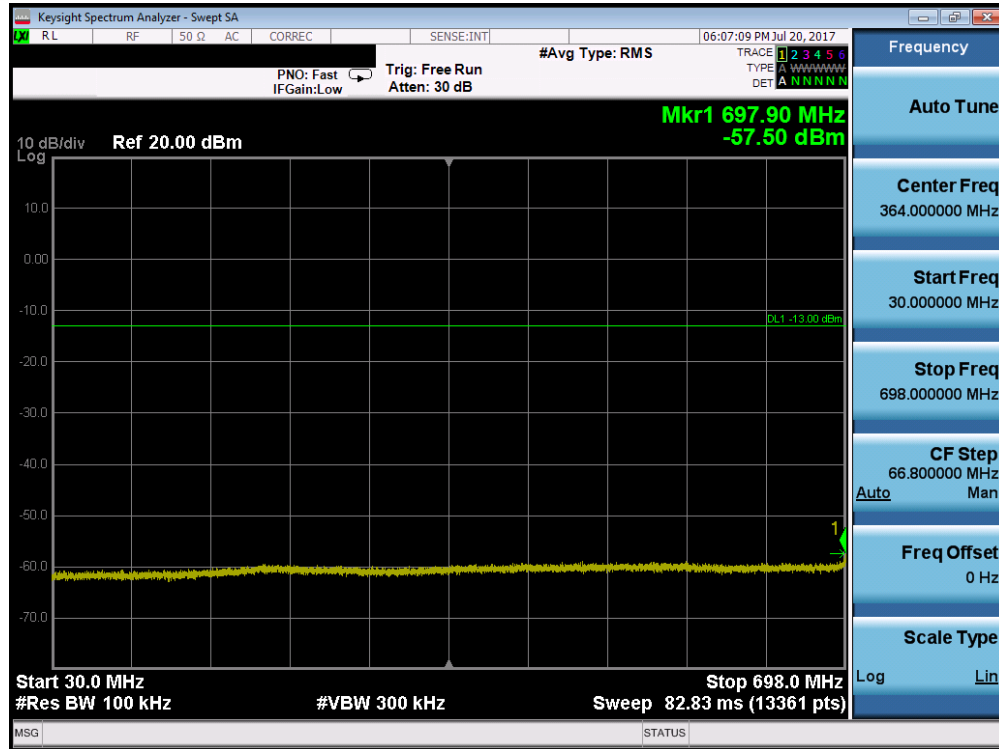


Plot 7-95. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

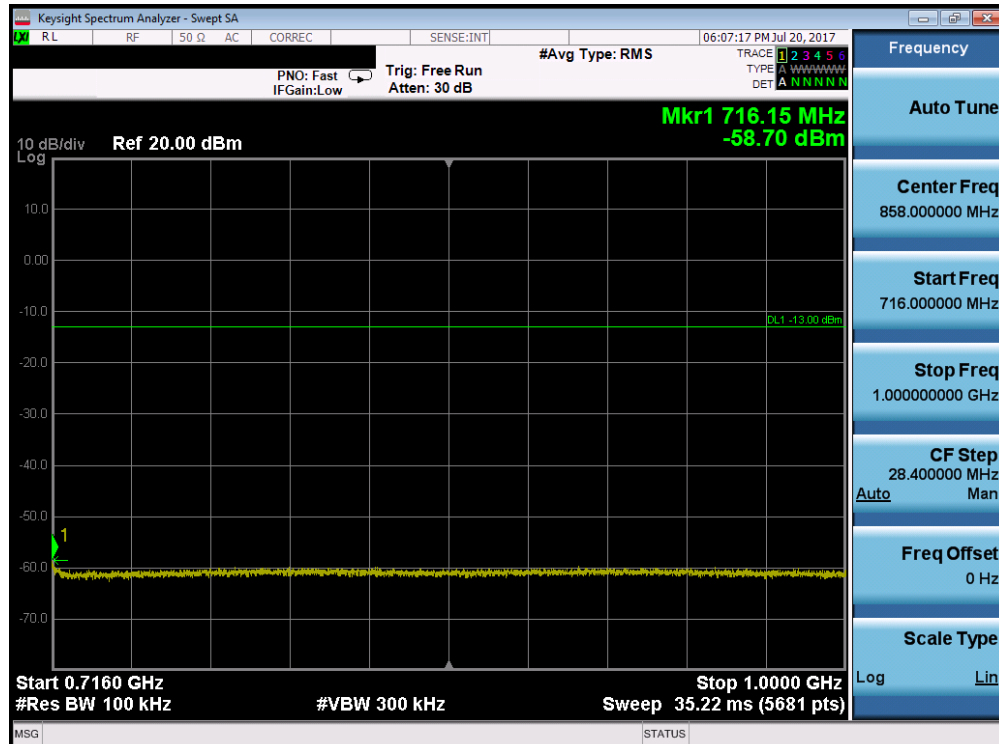


Plot 7-96. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 65 of 178

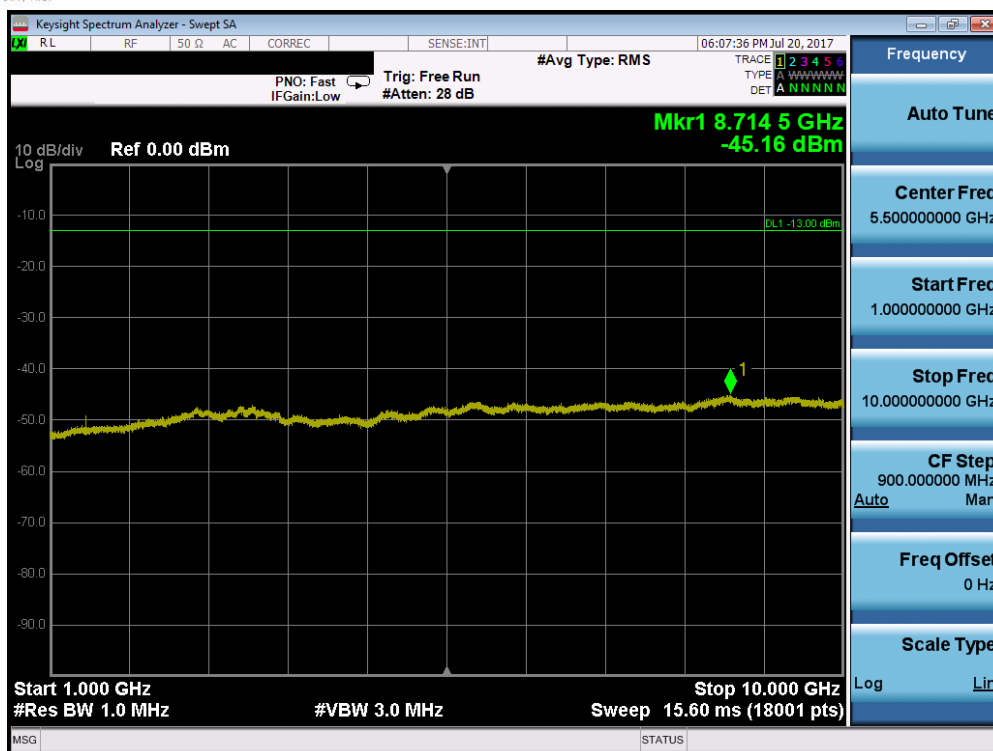


Plot 7-97. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

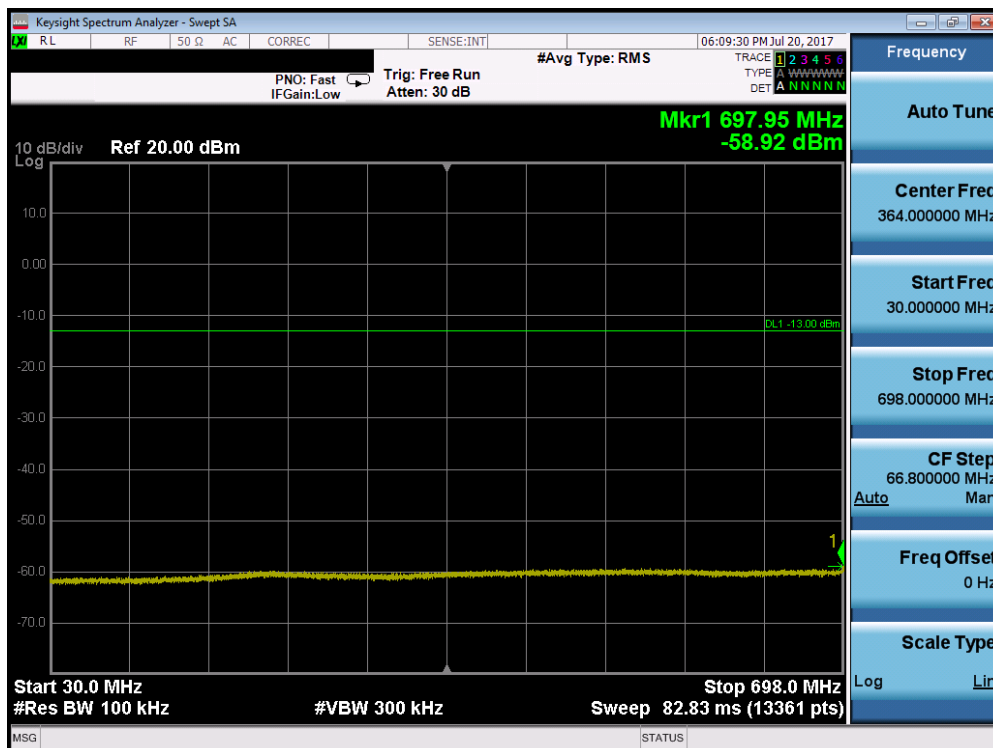


Plot 7-98. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 66 of 178

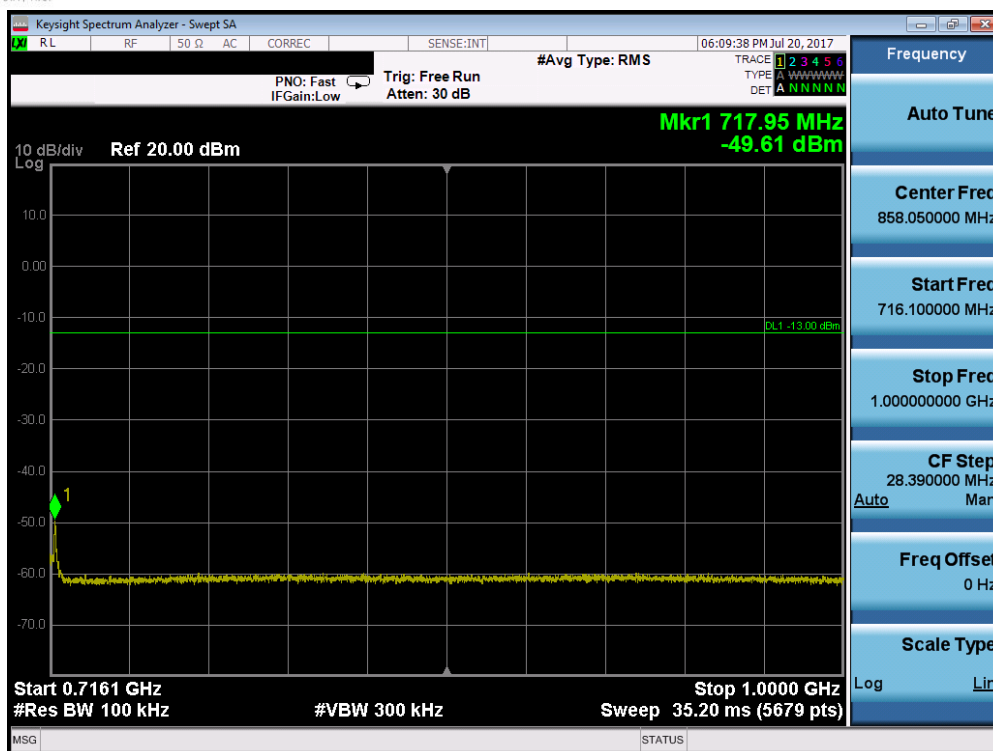


Plot 7-99. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

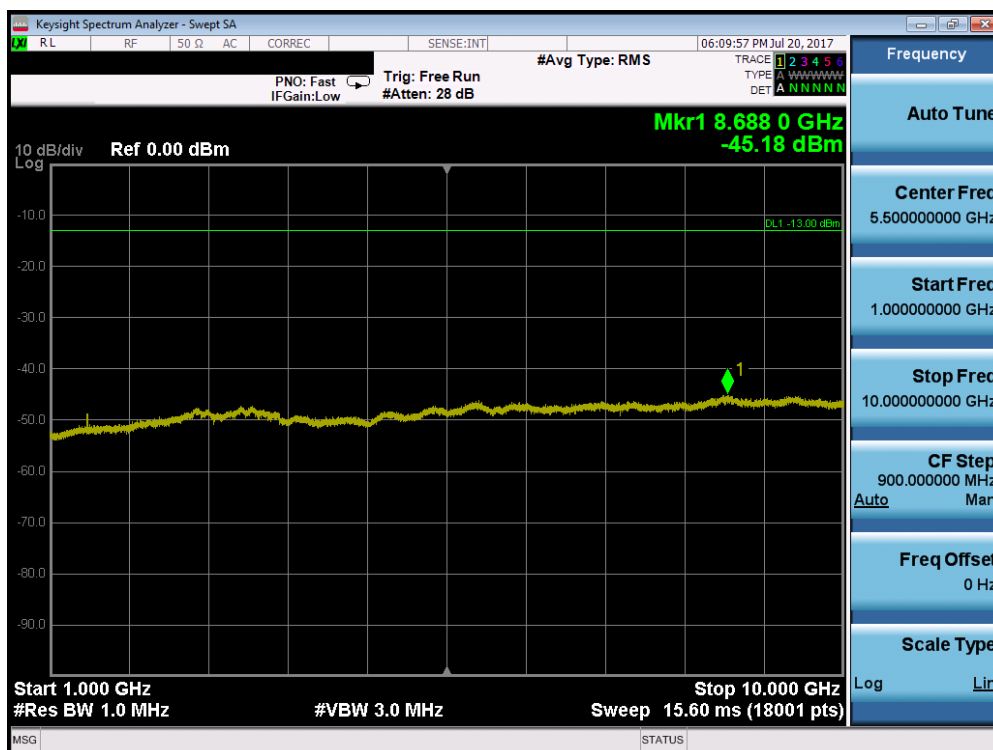


Plot 7-100. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 67 of 178

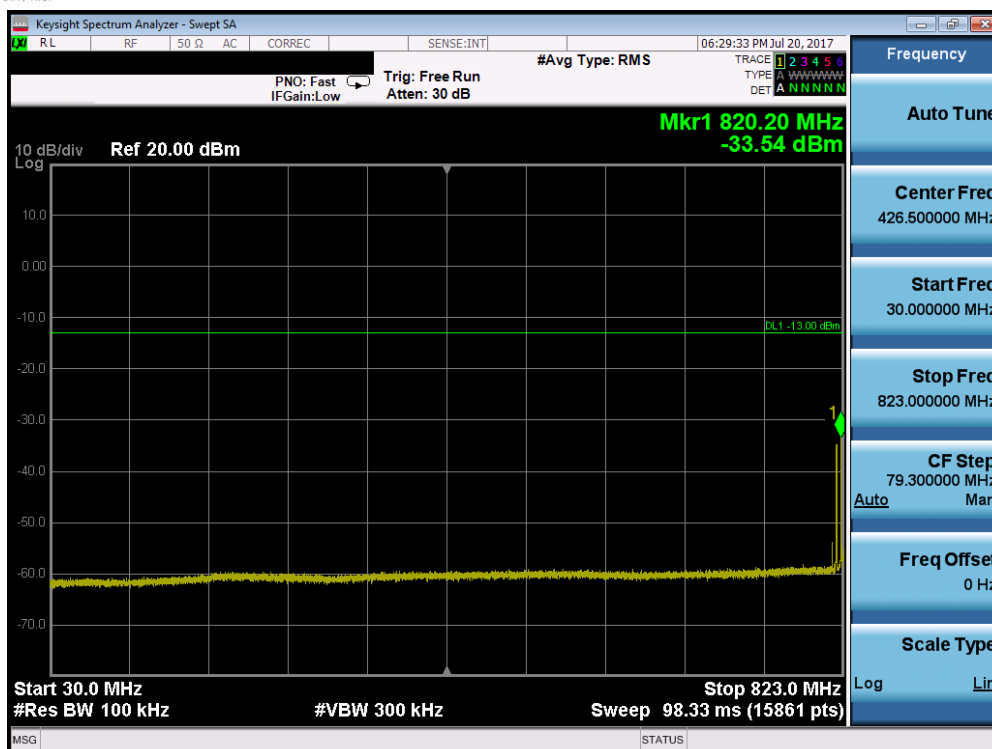


Plot 7-101. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

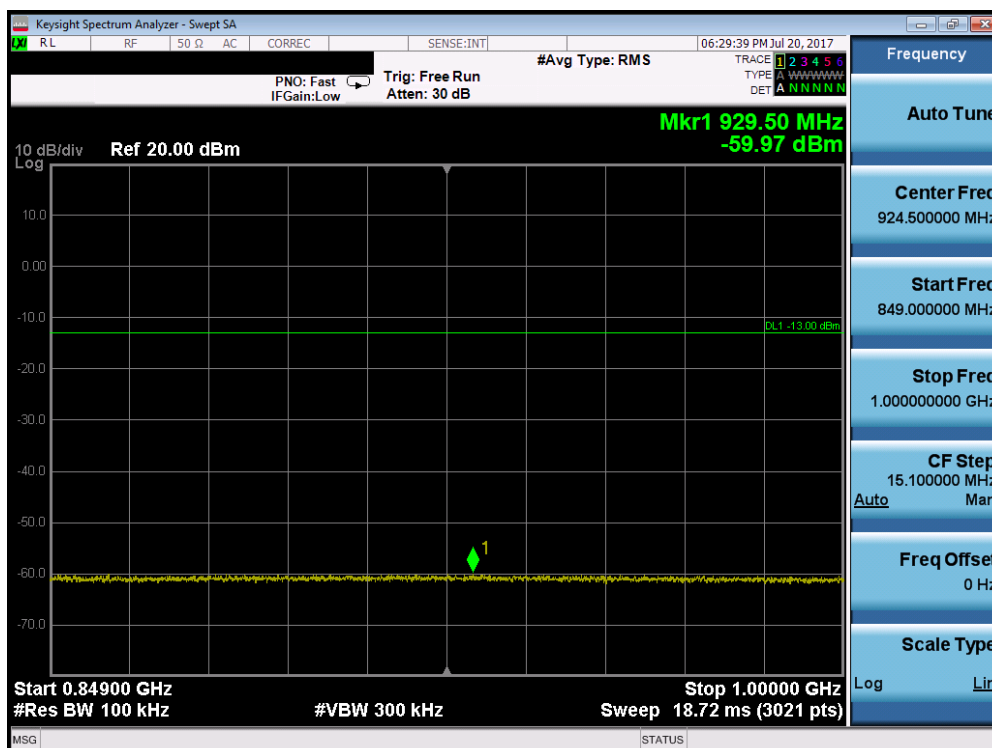


Plot 7-102. Conducted Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 68 of 178

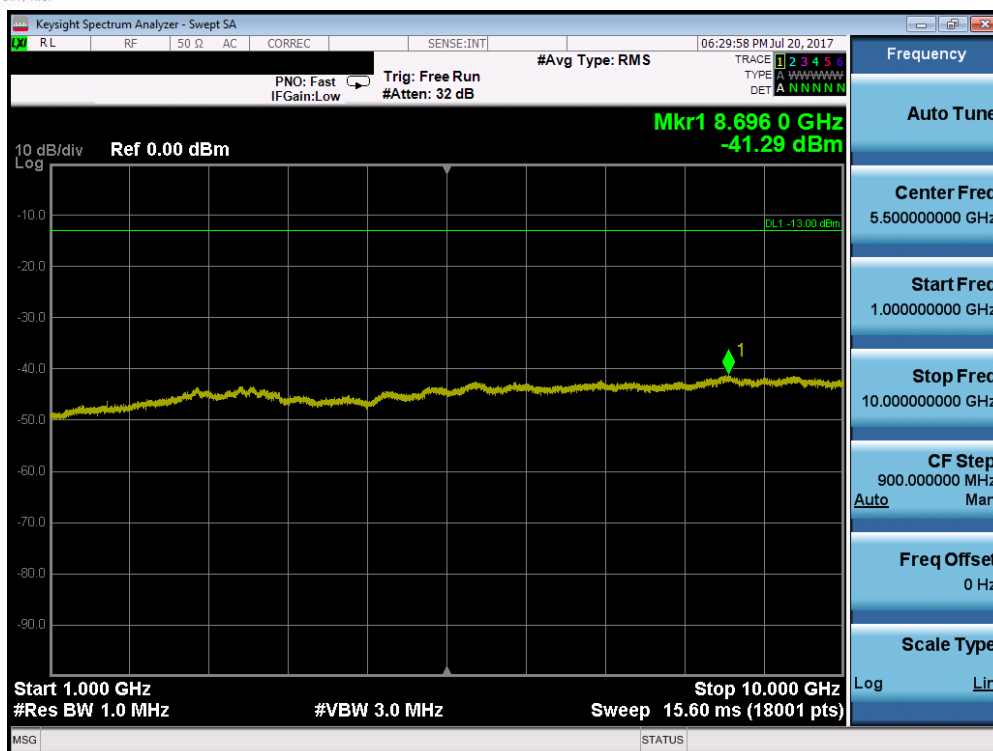


Plot 7-103. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

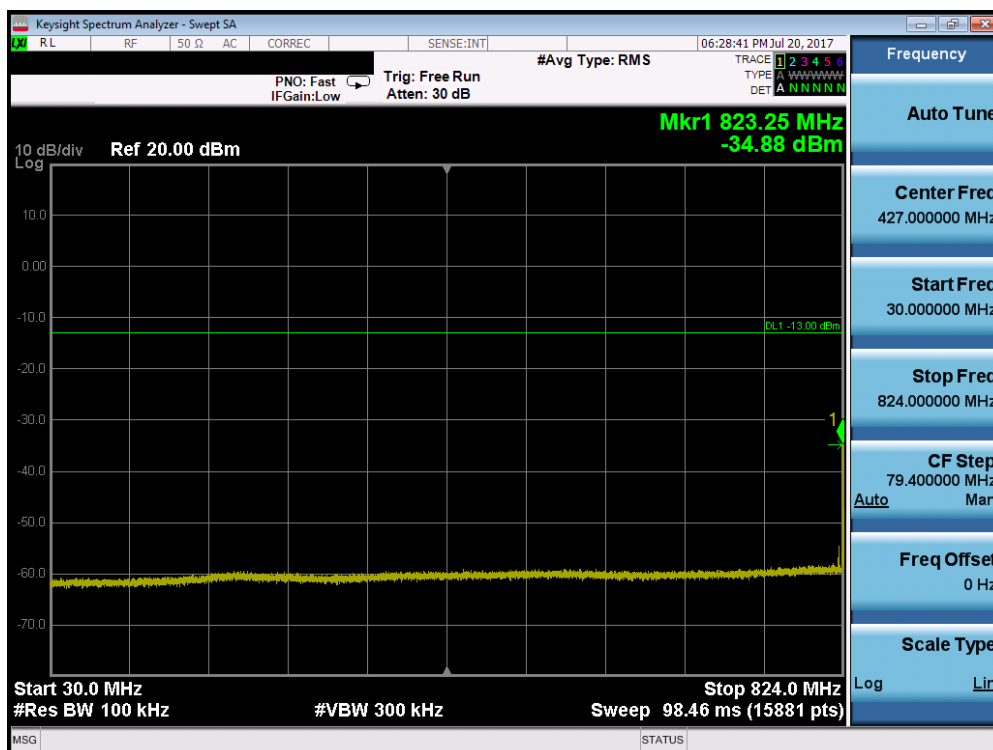


Plot 7-104. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 69 of 178

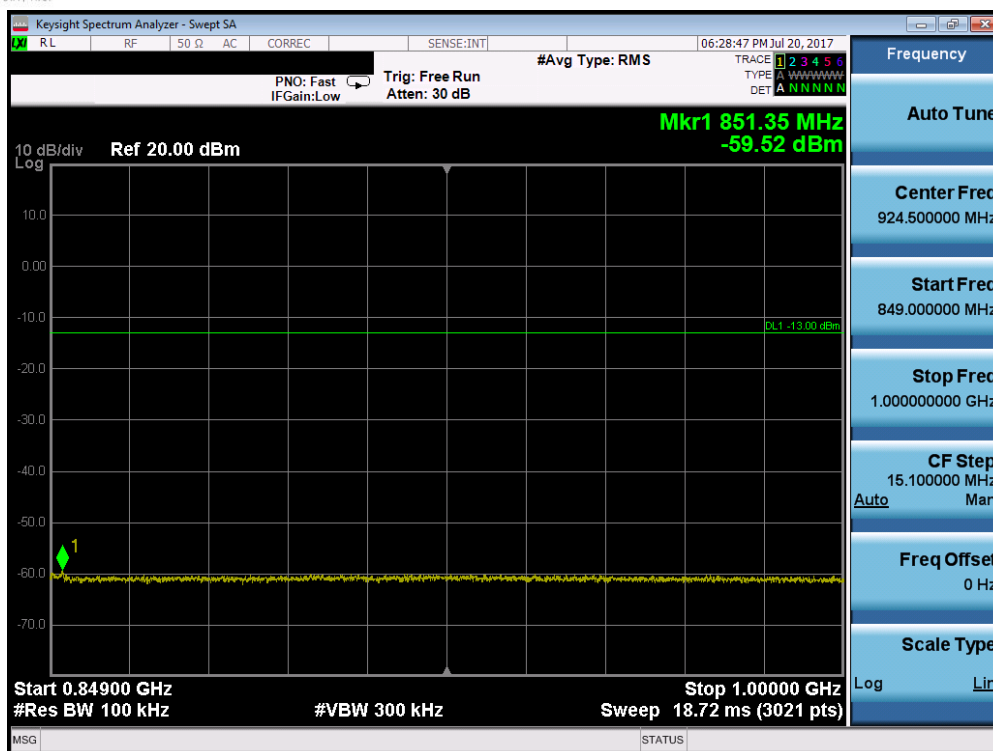


Plot 7-105. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

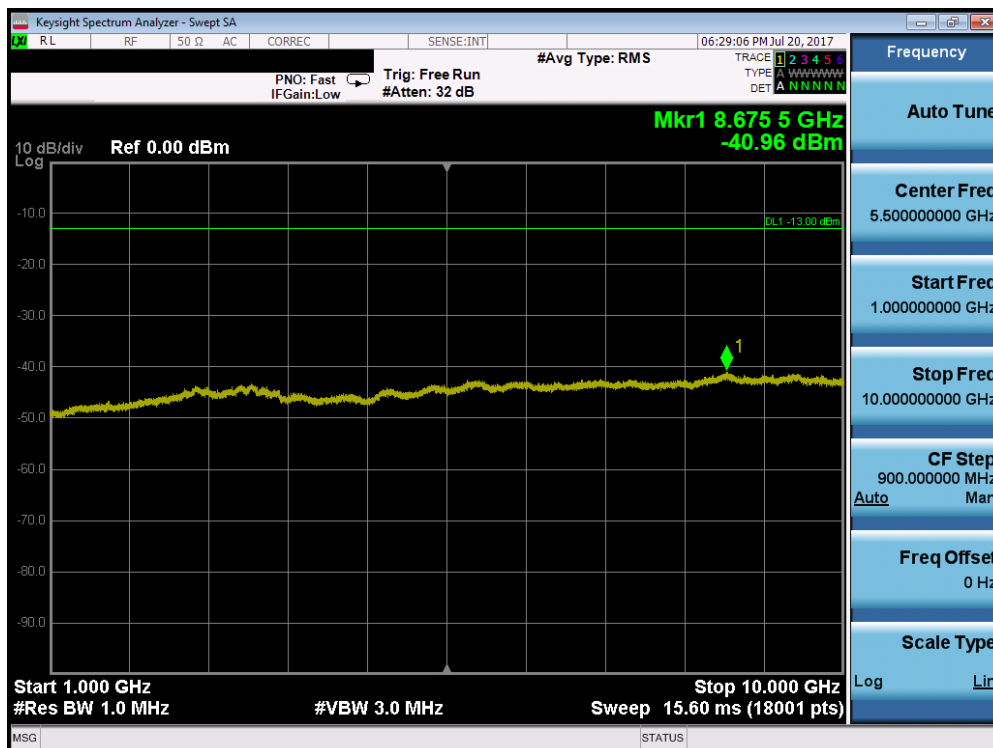


Plot 7-106. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 70 of 178

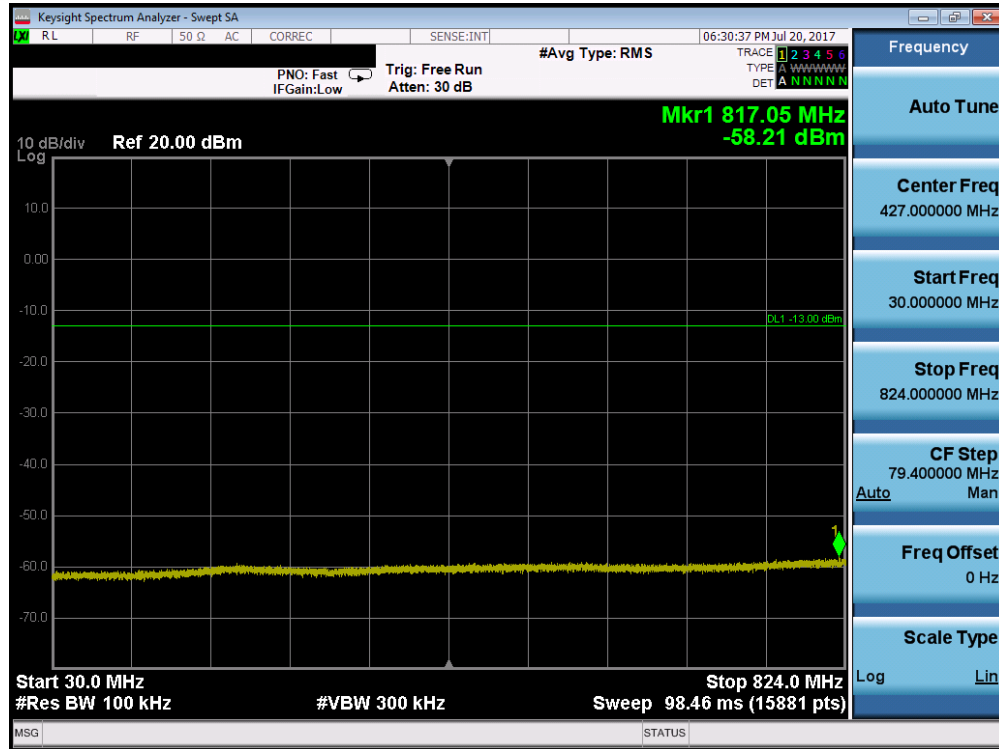


Plot 7-107. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

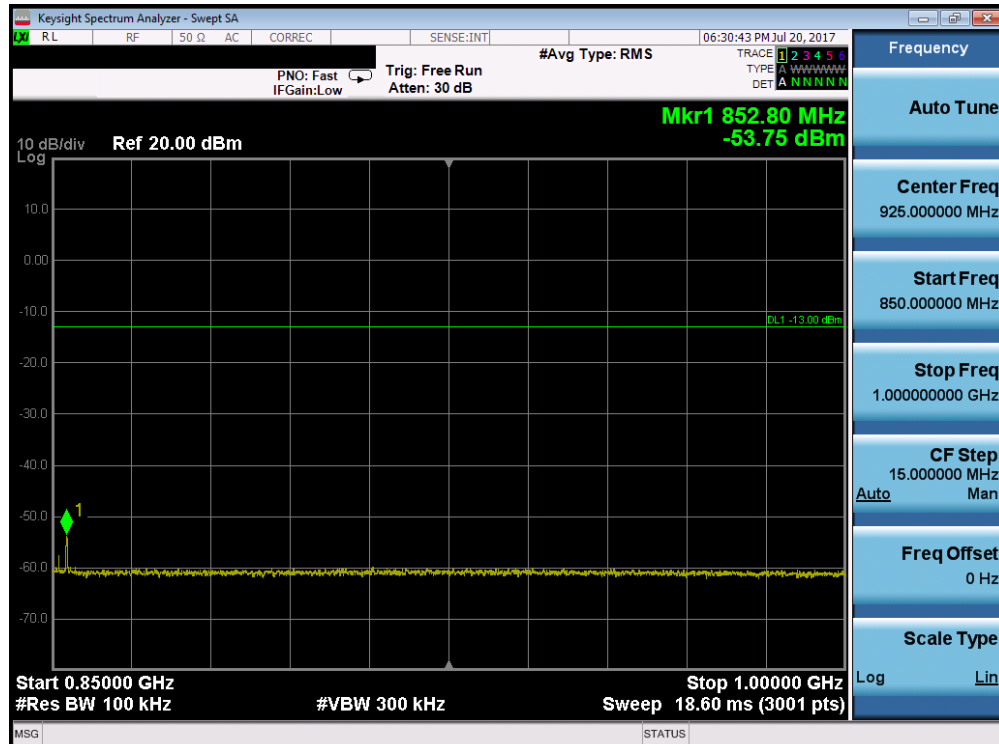


Plot 7-108. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 71 of 178

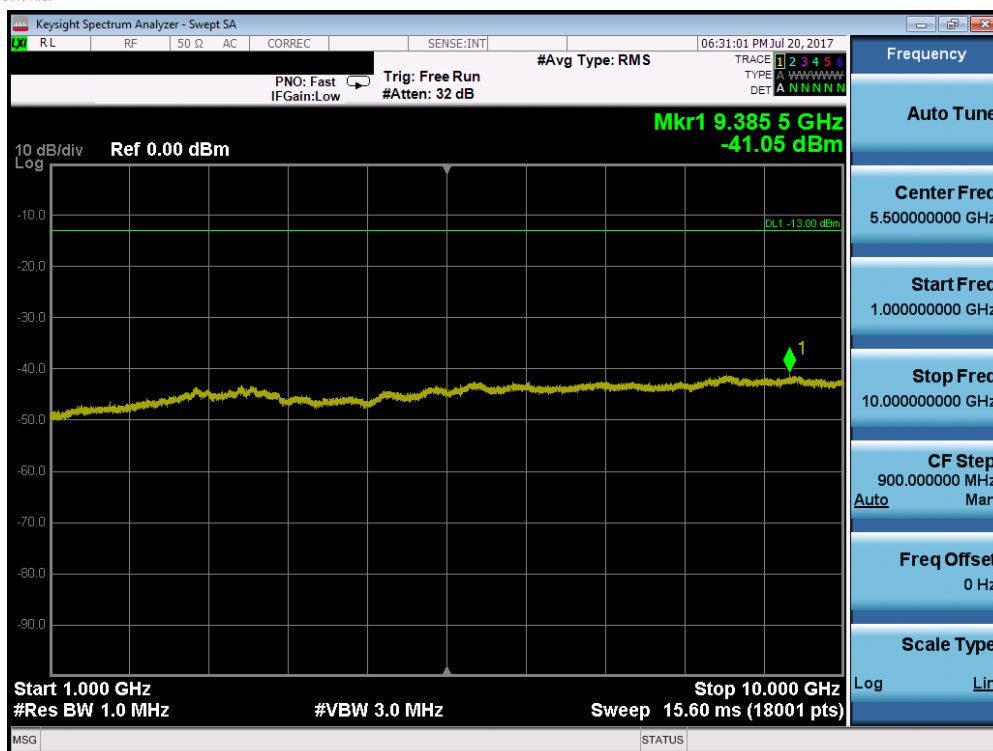


Plot 7-109. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

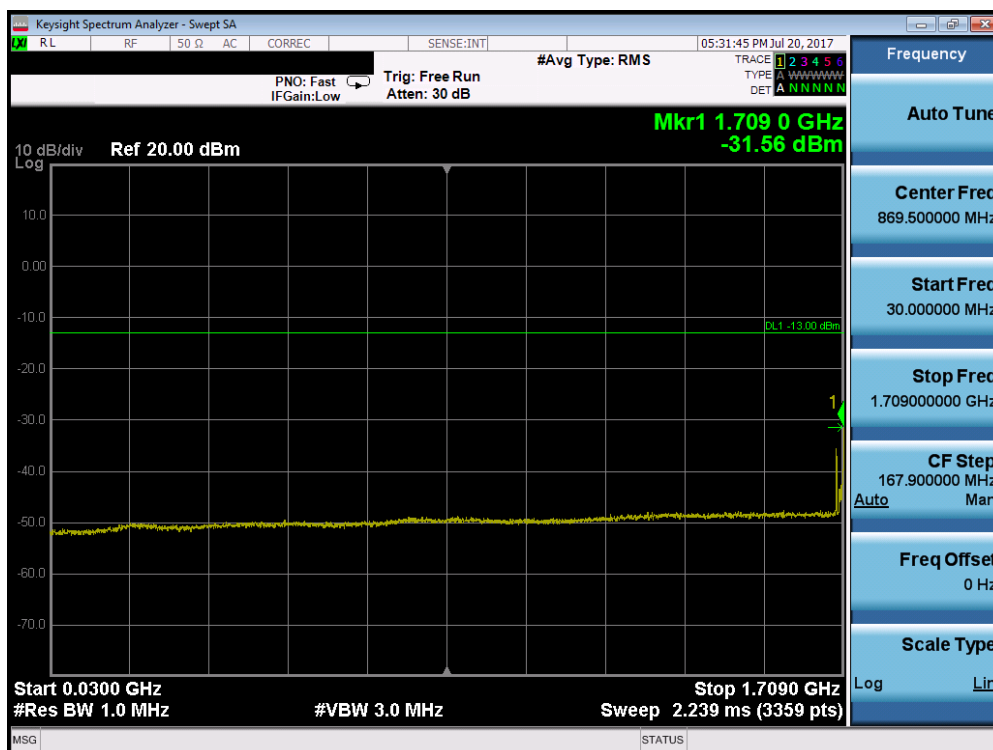


Plot 7-110. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 72 of 178

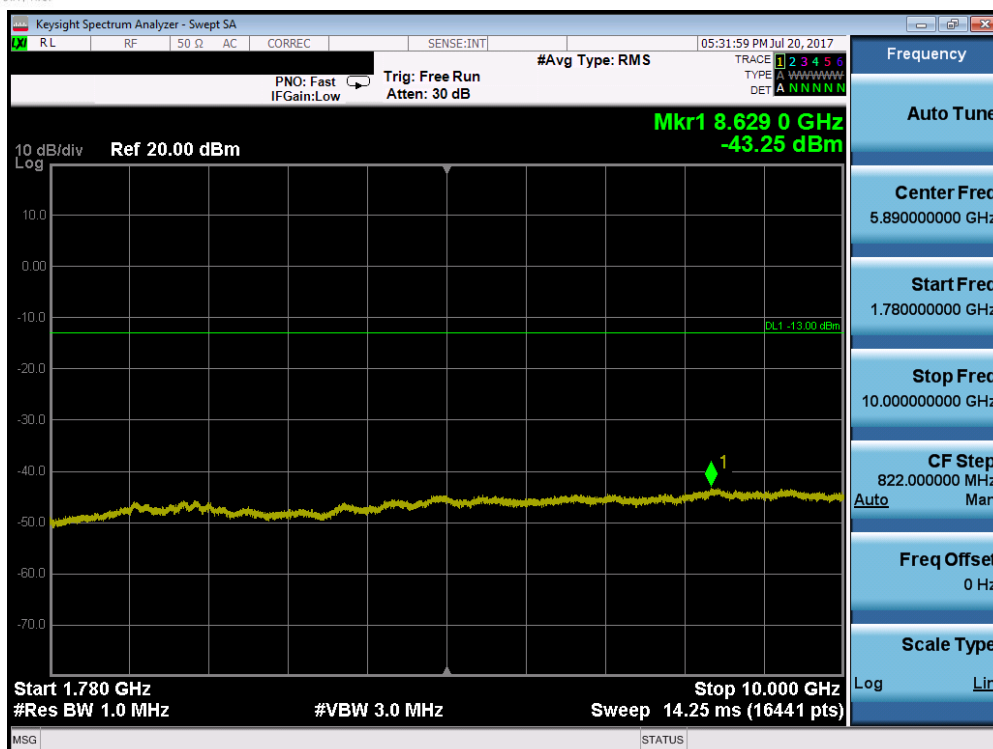


Plot 7-111. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

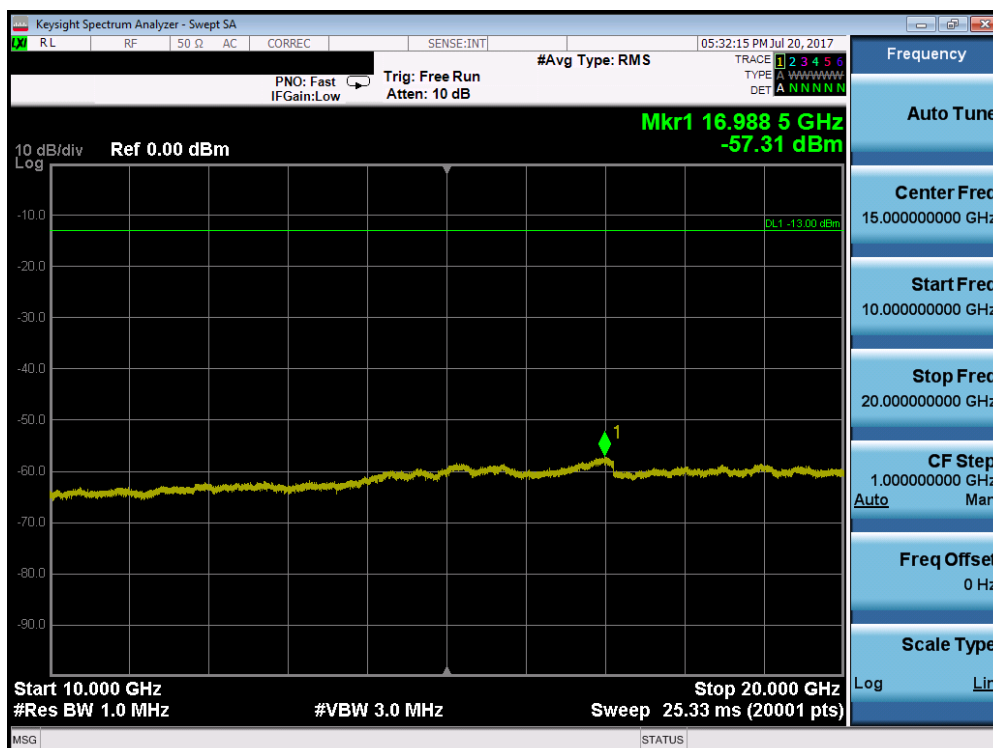


Plot 7-112. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 73 of 178

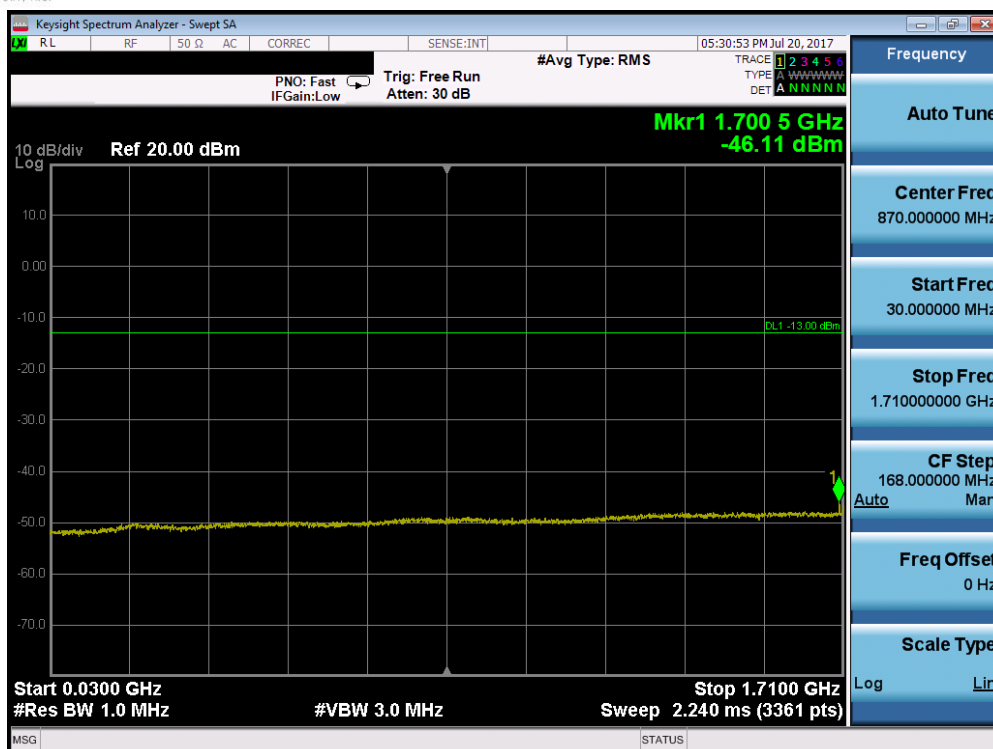


Plot 7-113. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

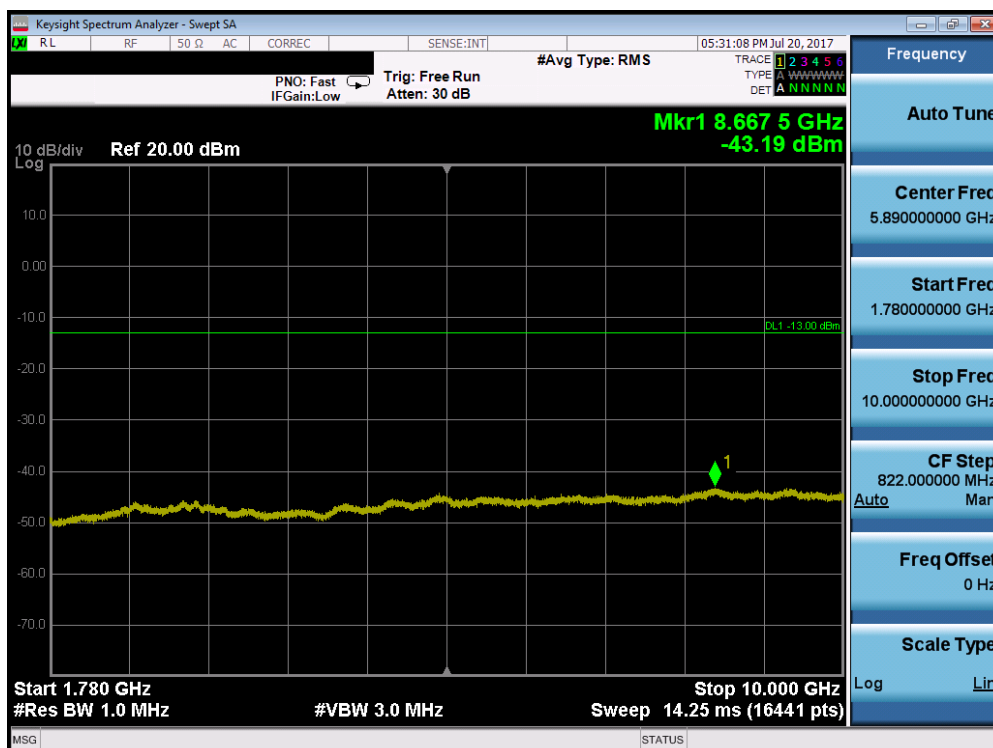


Plot 7-114. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 74 of 178

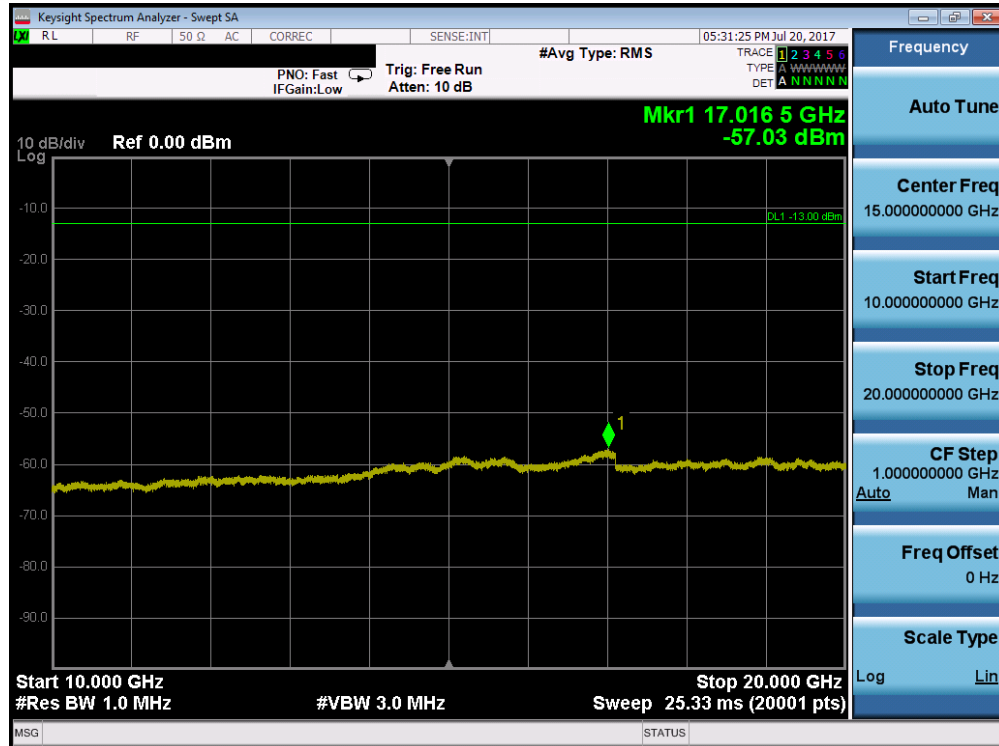


Plot 7-115. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

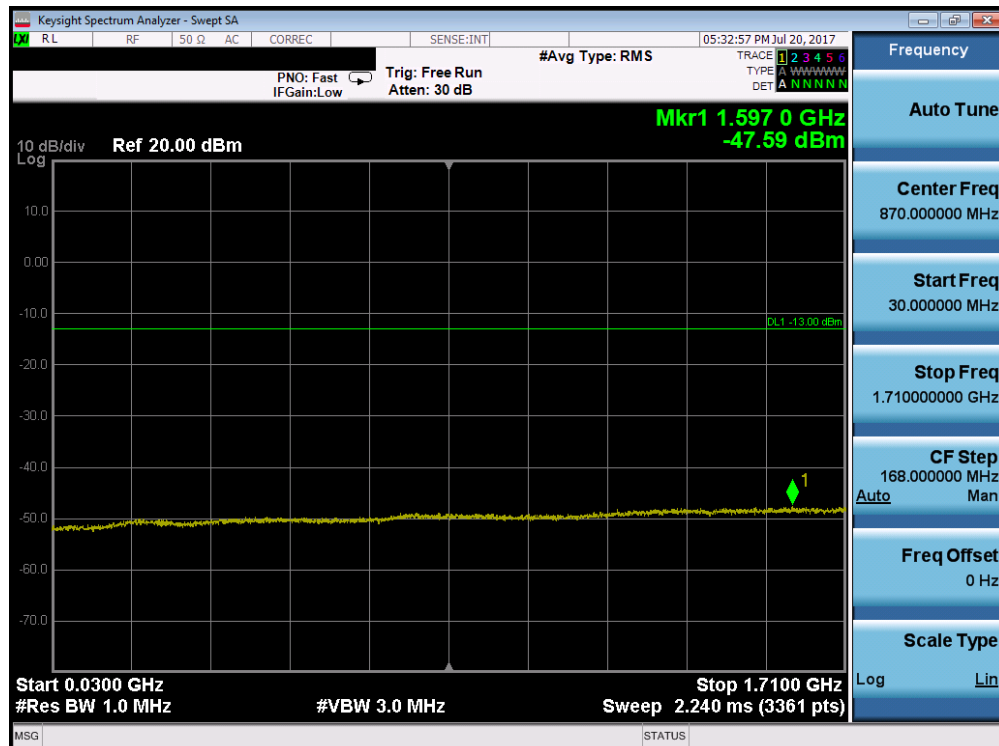


Plot 7-116. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 75 of 178

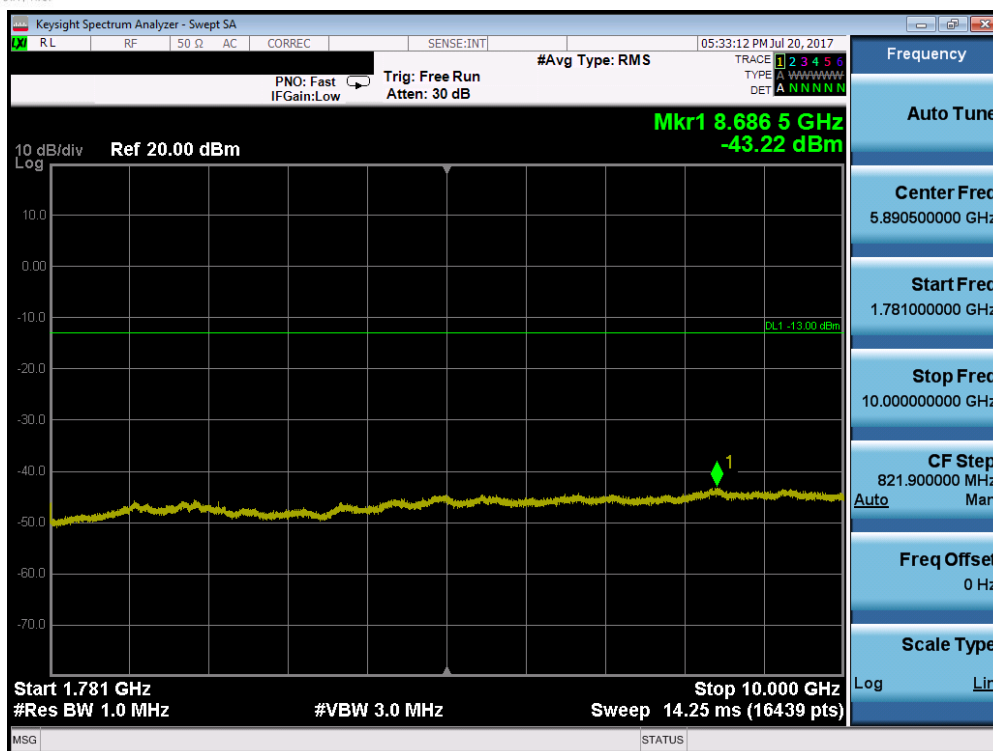


Plot 7-117. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

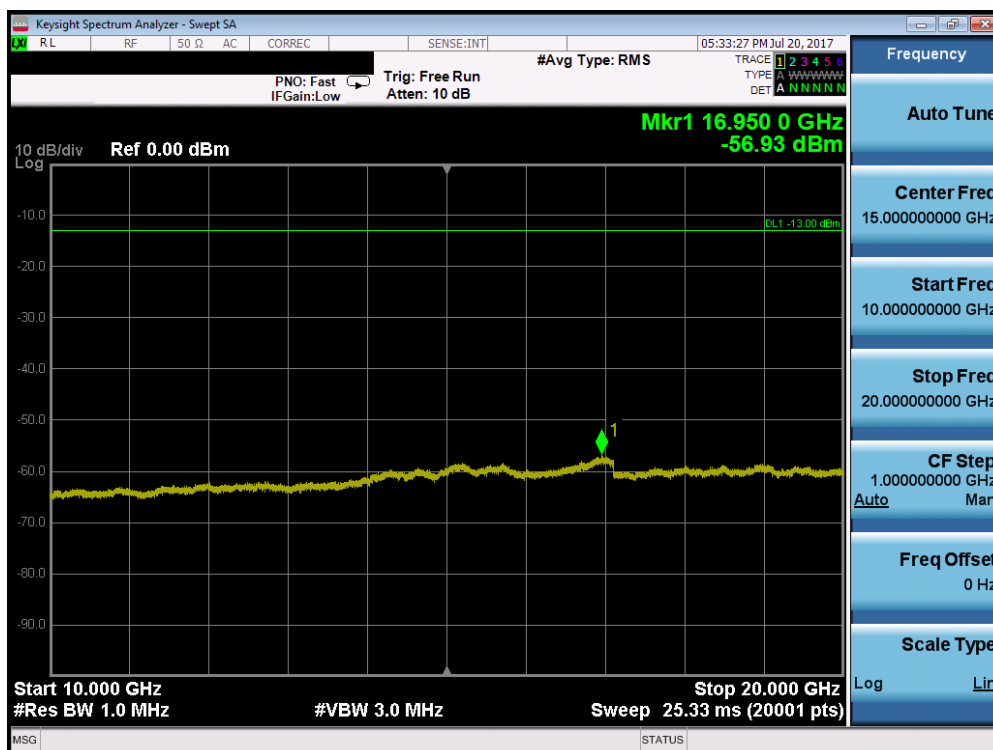


Plot 7-118. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 76 of 178

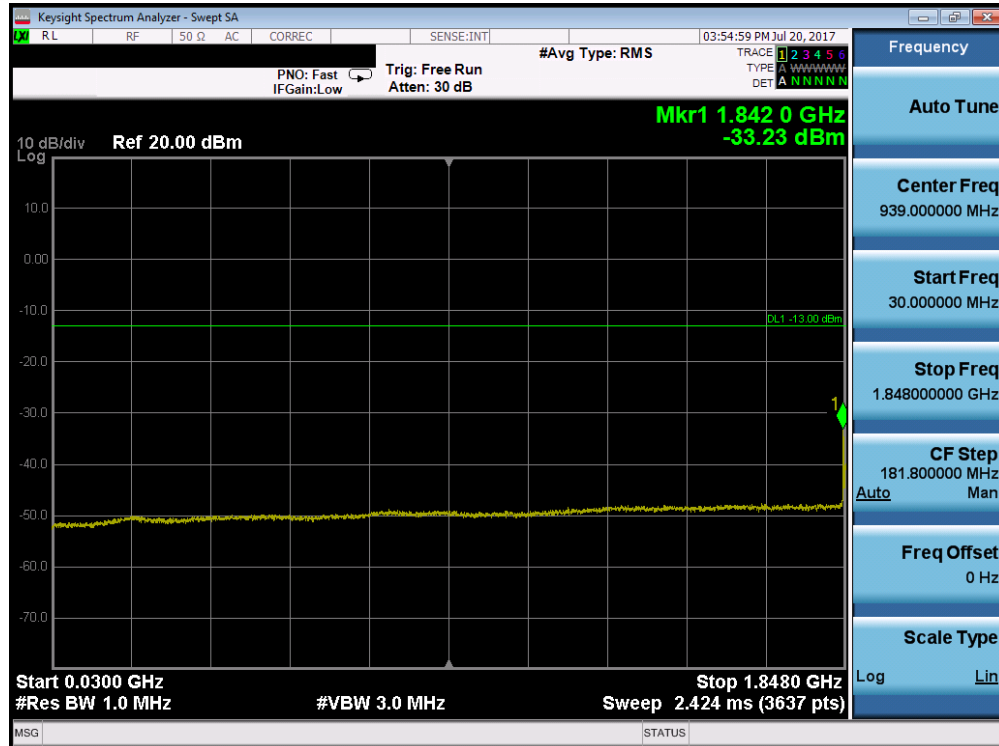


Plot 7-119. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

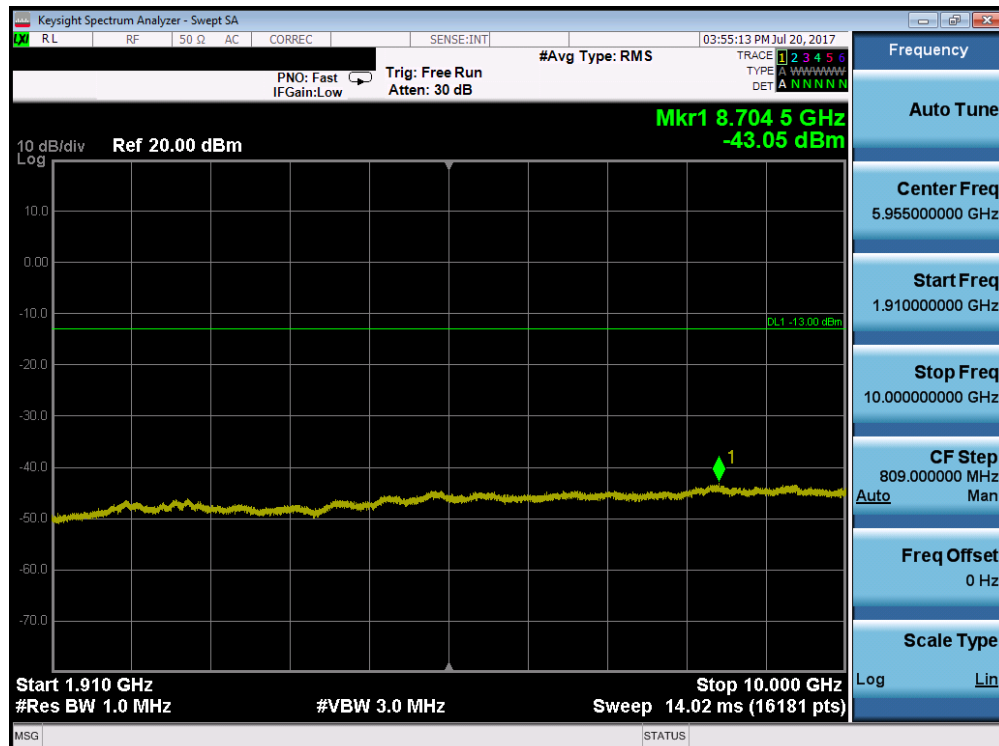


Plot 7-120. Conducted Spurious Plot (Band 4/66 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 77 of 178

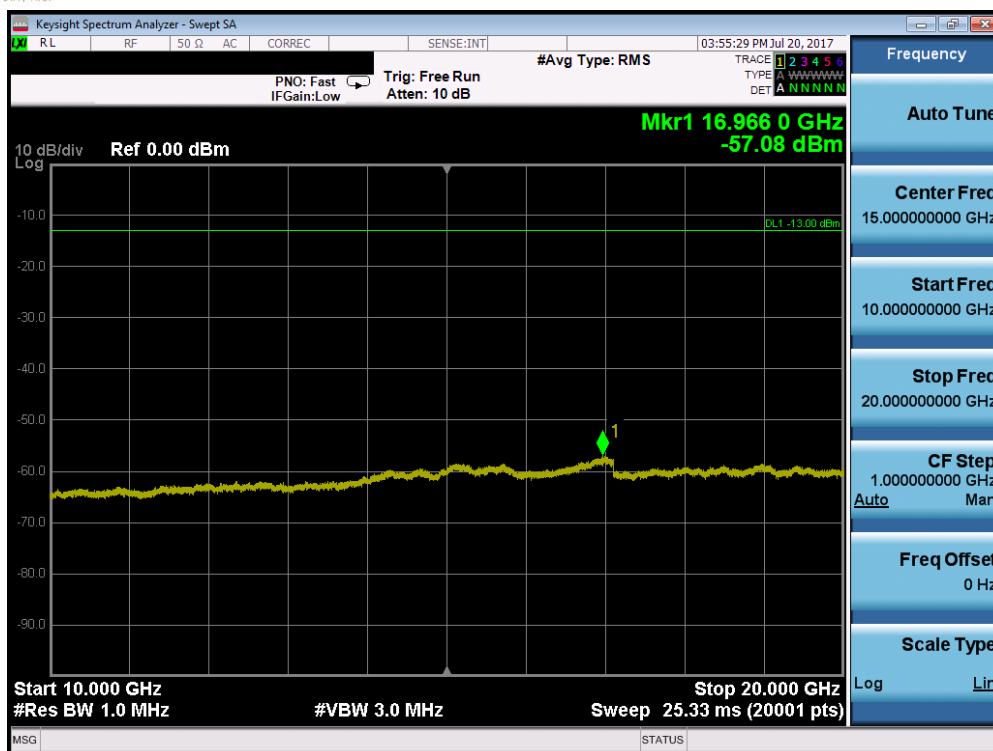


Plot 7-121. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

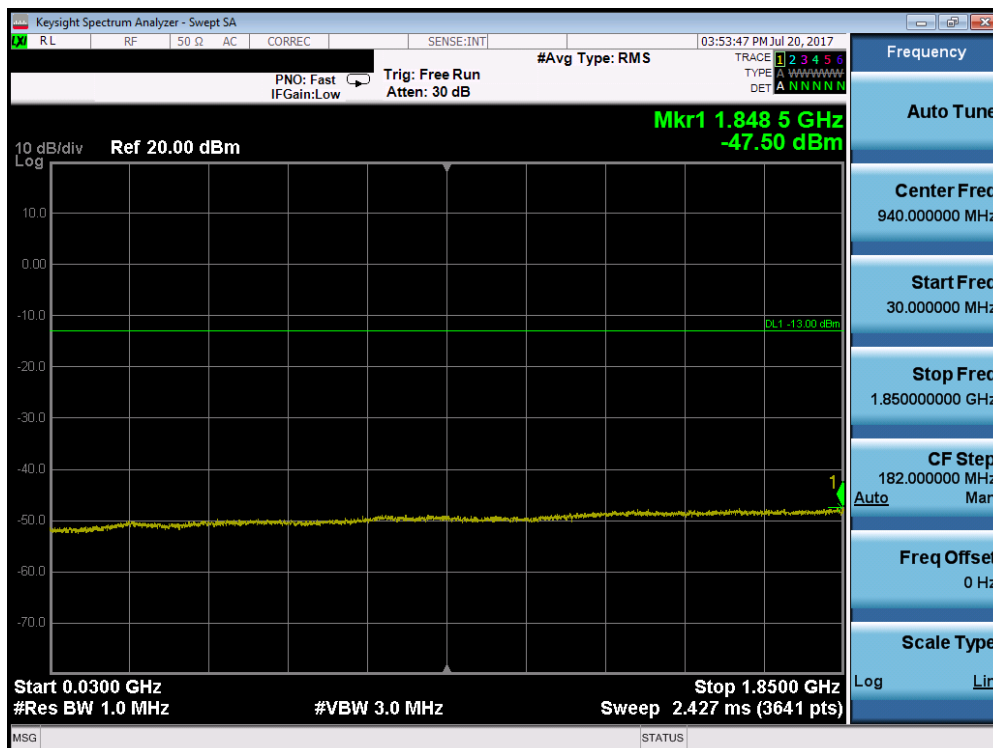


Plot 7-122. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 78 of 178

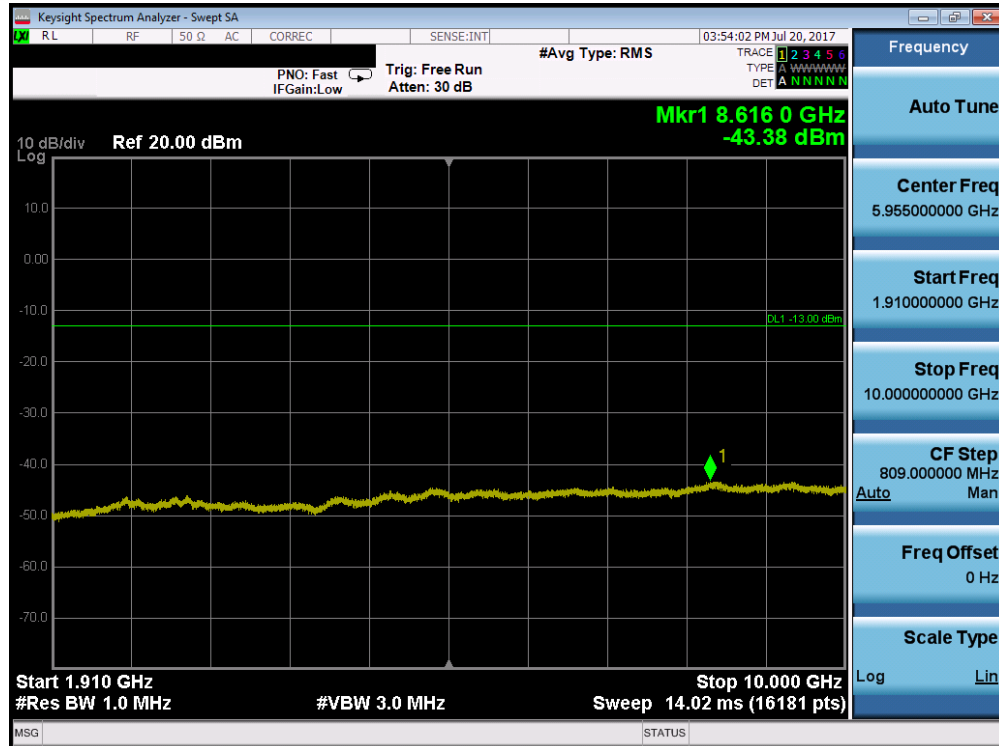


Plot 7-123. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

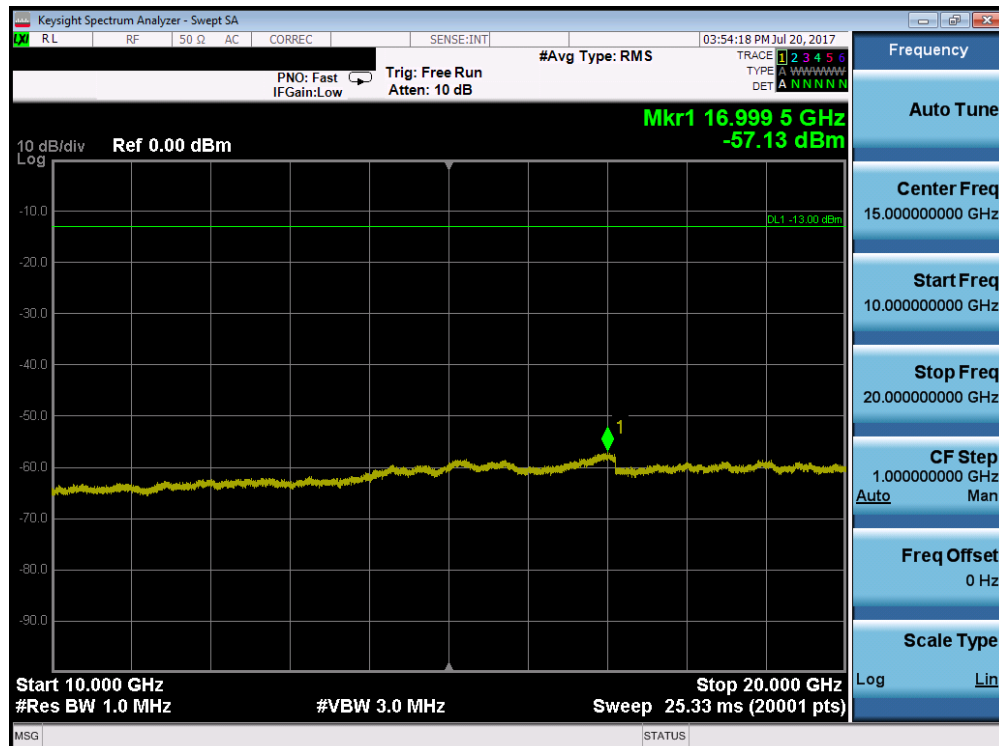


Plot 7-124. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 79 of 178

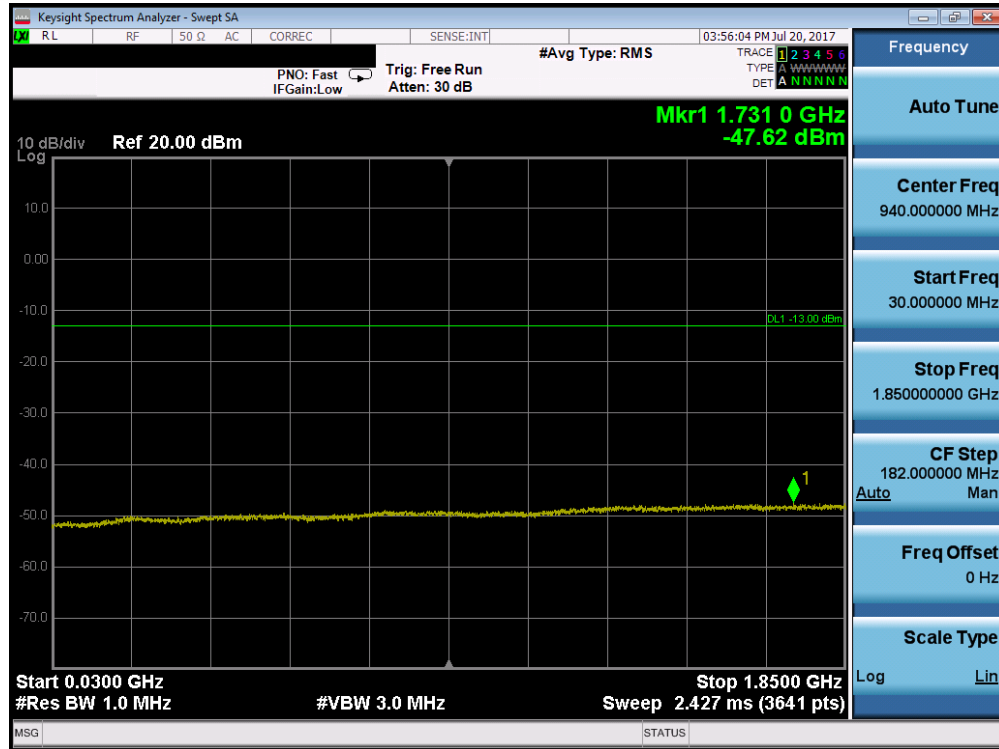


Plot 7-125. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

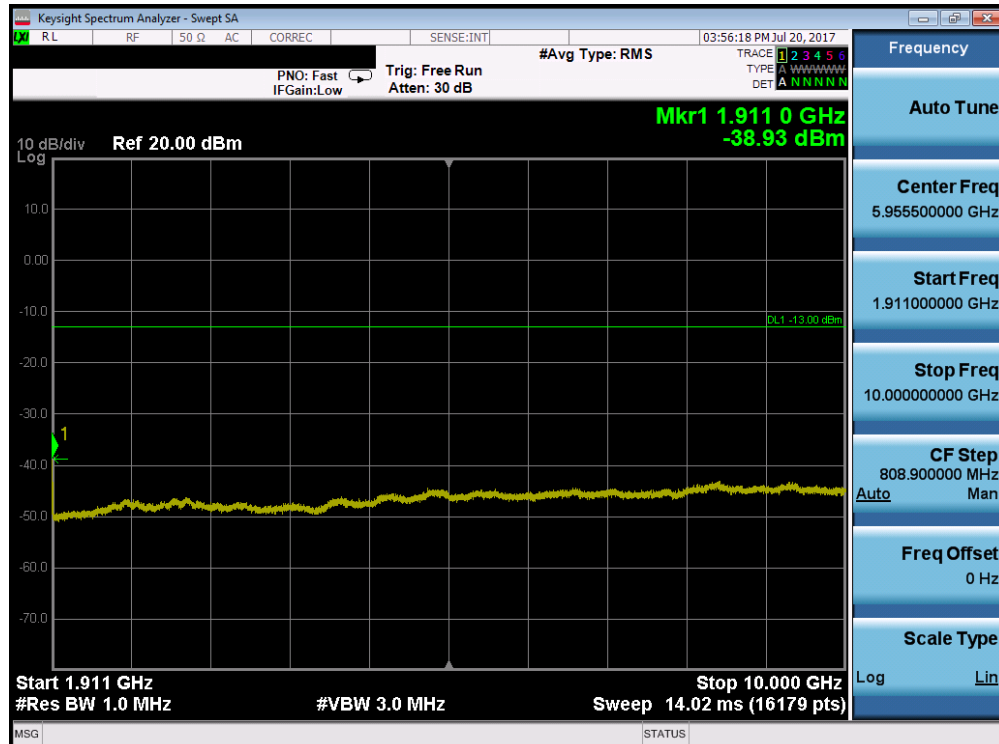


Plot 7-126. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 80 of 178

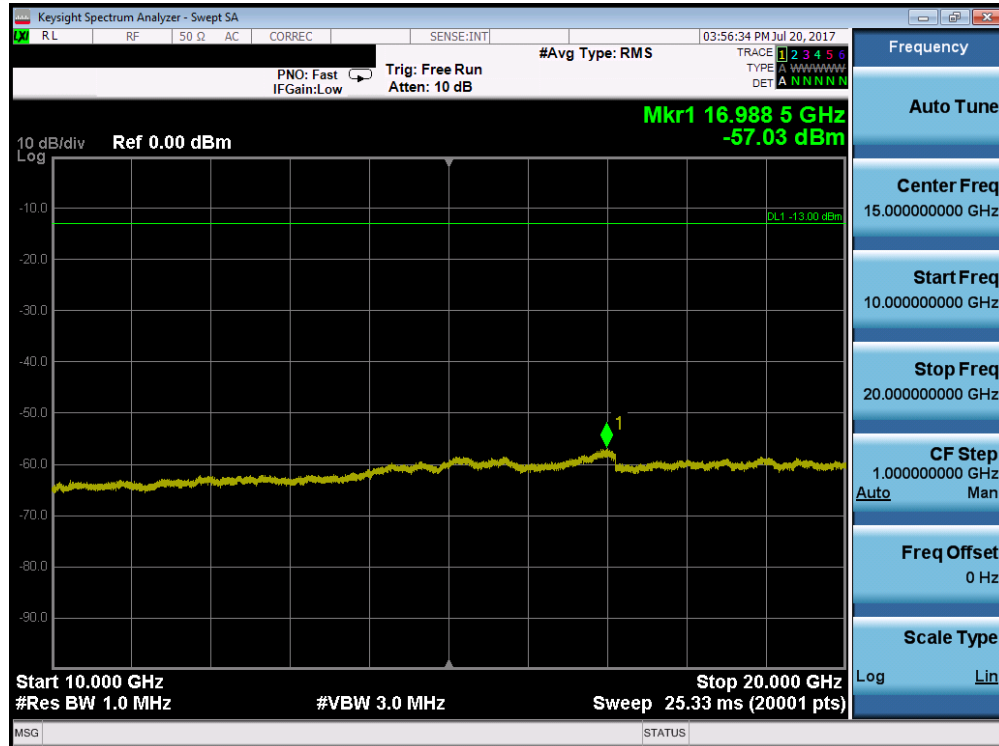


Plot 7-127. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

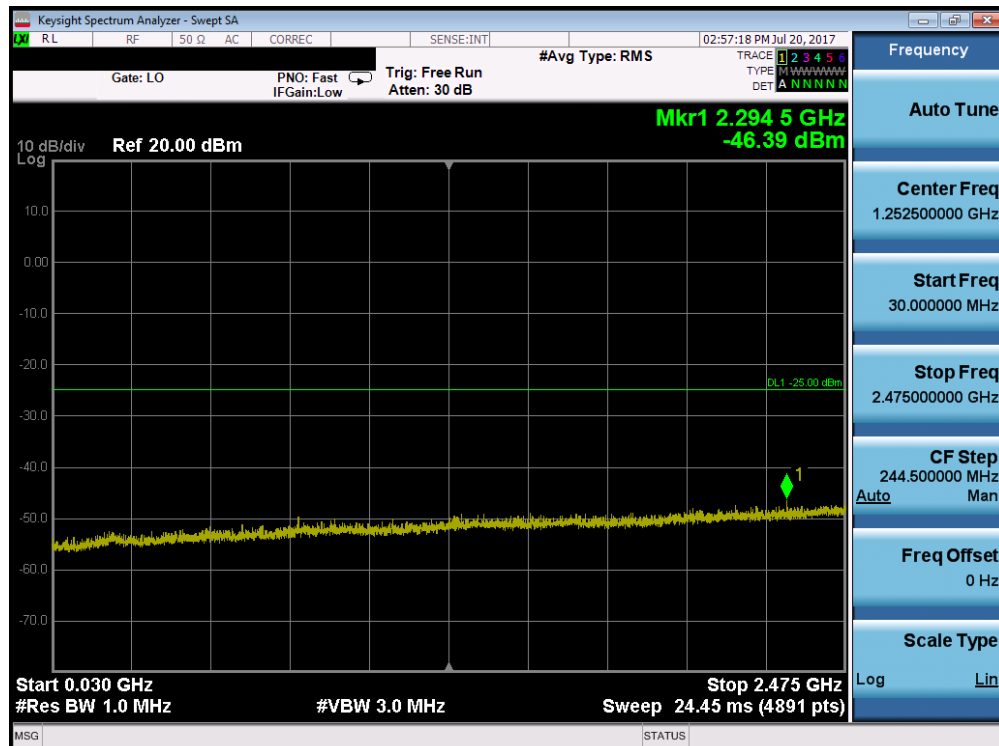


Plot 7-128. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 81 of 178



Plot 7-129. Conducted Spurious Plot (Band 2 – 10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-130. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 82 of 178

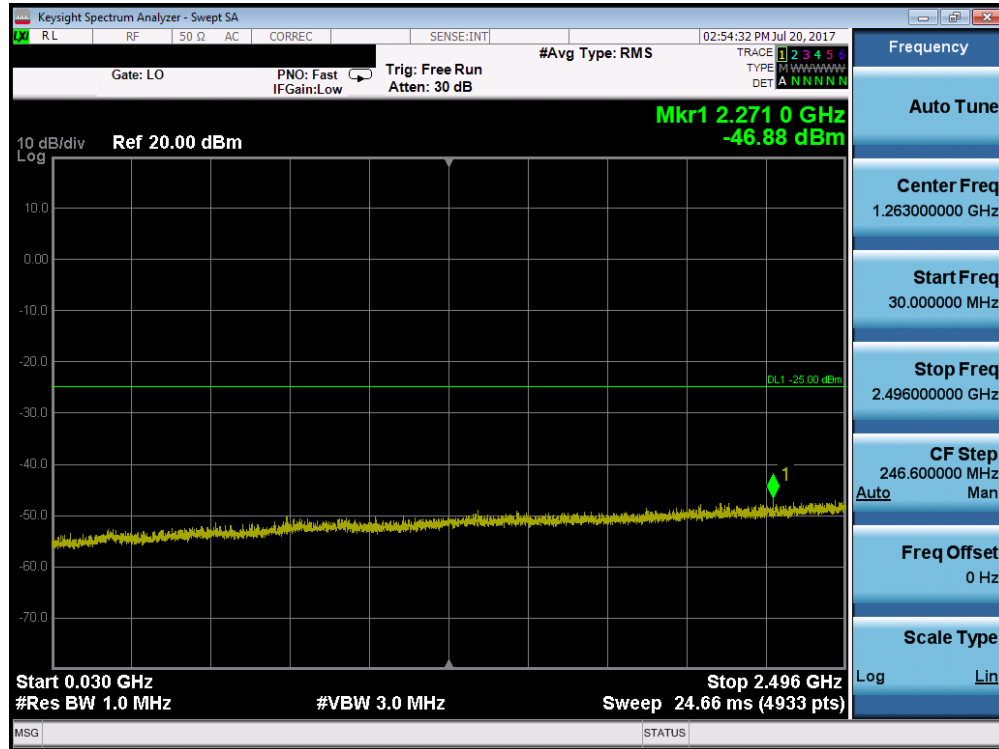


Plot 7-131. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-132. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 83 of 178



Plot 7-133. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

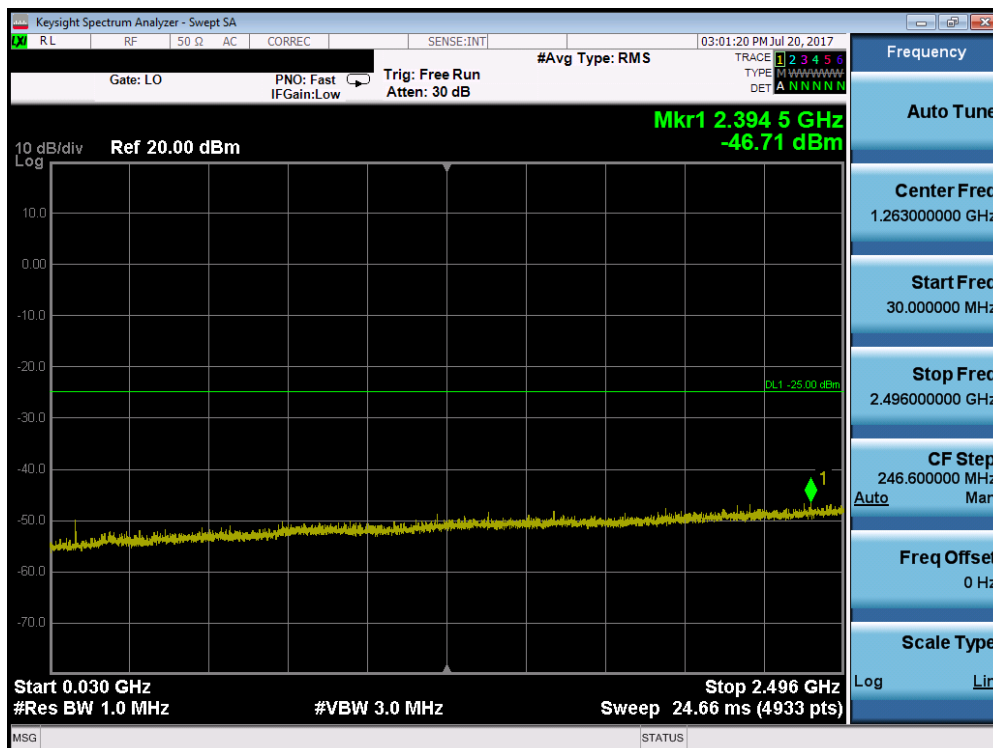


Plot 7-134. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 84 of 178



Plot 7-135. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 7-136. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 85 of 178



Plot 7-137. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)



Plot 7-138. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 86 of 178

7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(m)

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 for Band 41 is as noted in the Test Notes on the following page.

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

Test Procedure Used

KDB 971168 D01 v02r02 – 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 $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ 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.

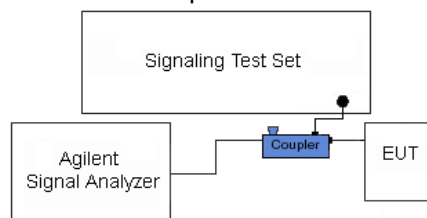


Figure 7-3. Test Instrument & Measurement Setup

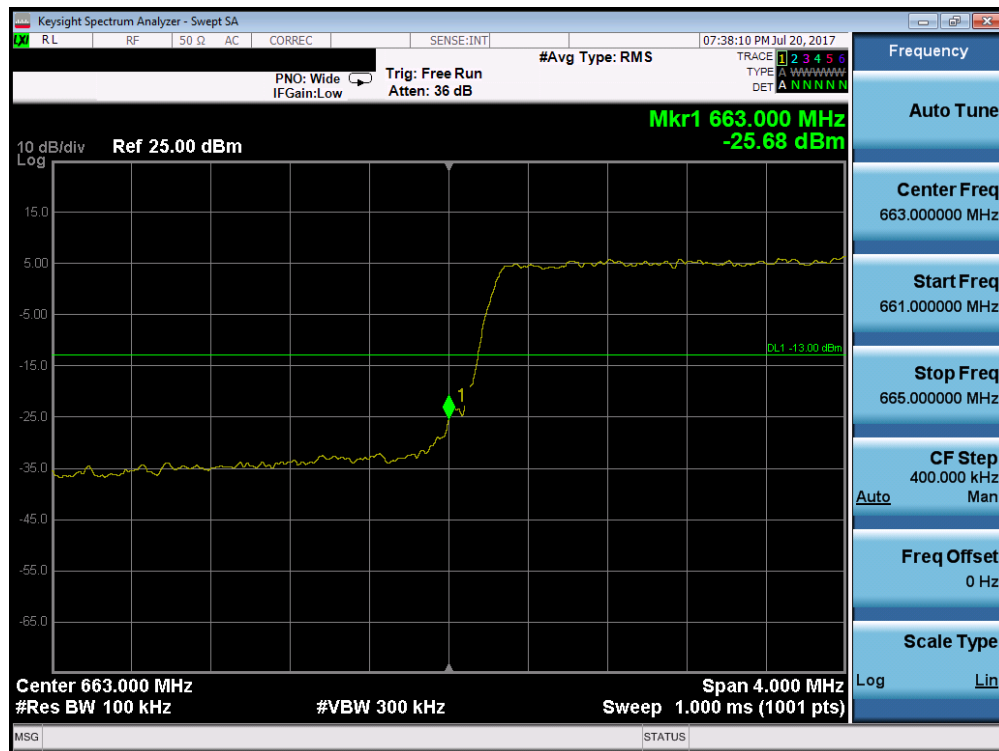
FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset	Page 87 of 178	

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.

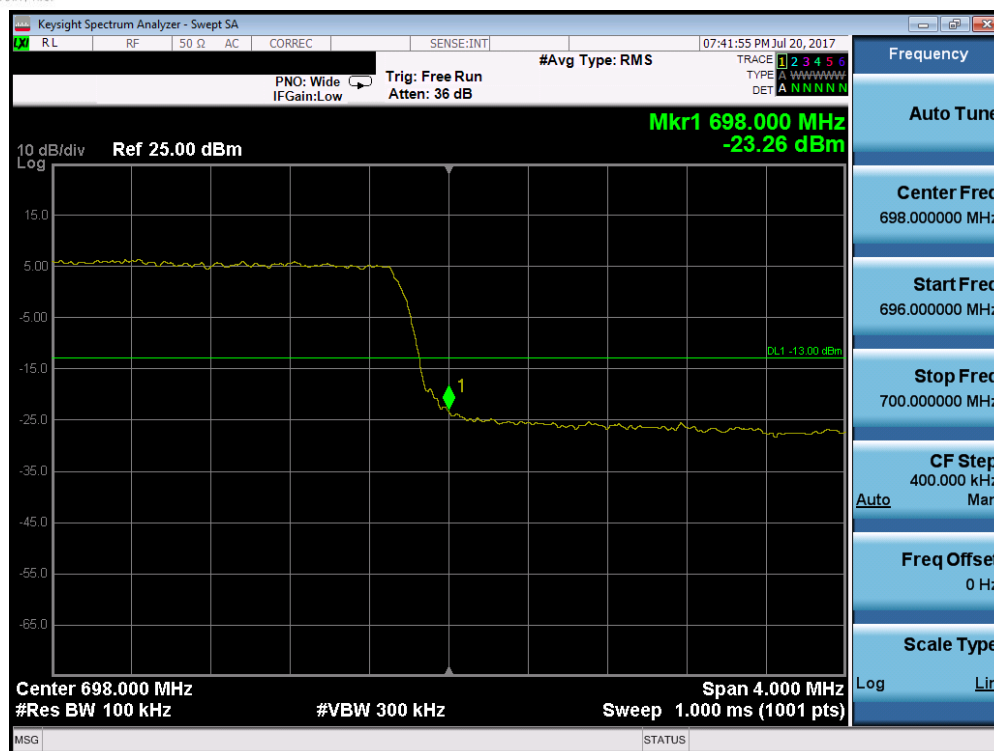
Per 27.53(g) for operations in the 600MHz band and the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

Per 27.53(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.

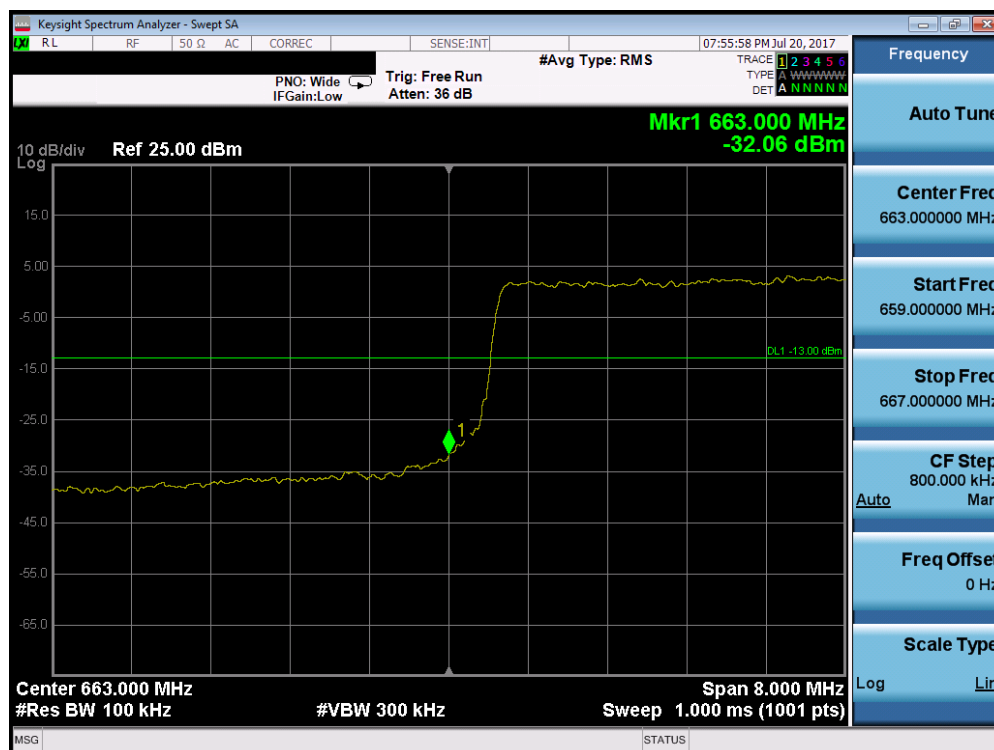


Plot 7-139. Lower Band Edge Plot (Band 71 – 5.0MHz QPSK – RB Size 25)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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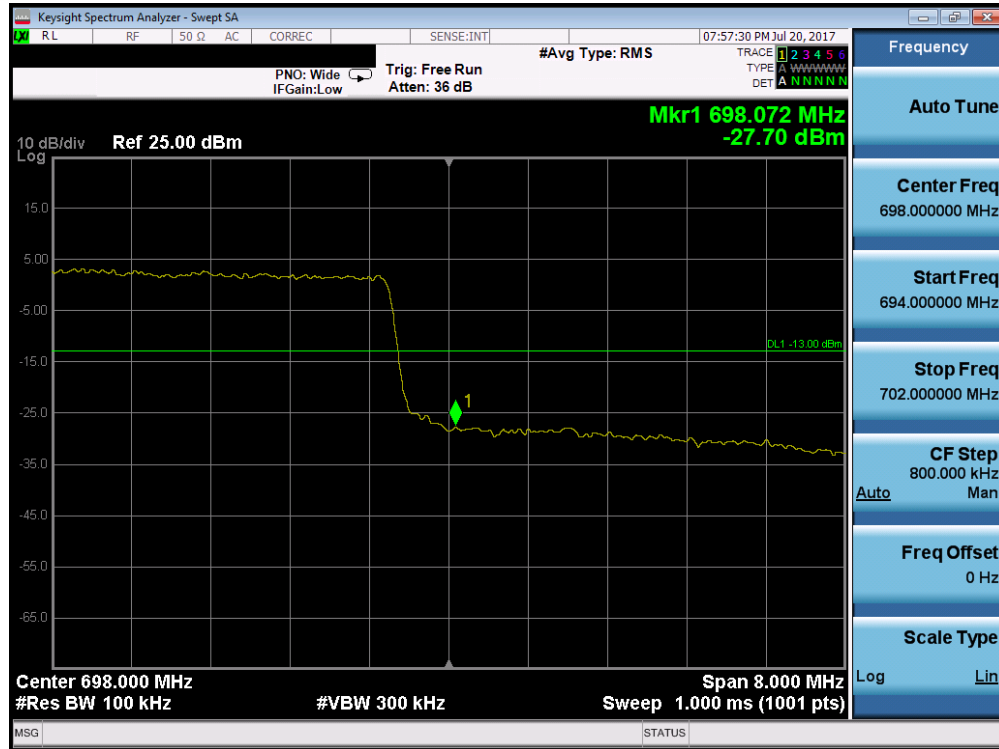


Plot 7-140. Upper Band Edge Plot (Band 71 – 5.0MHz QPSK – RB Size 25)

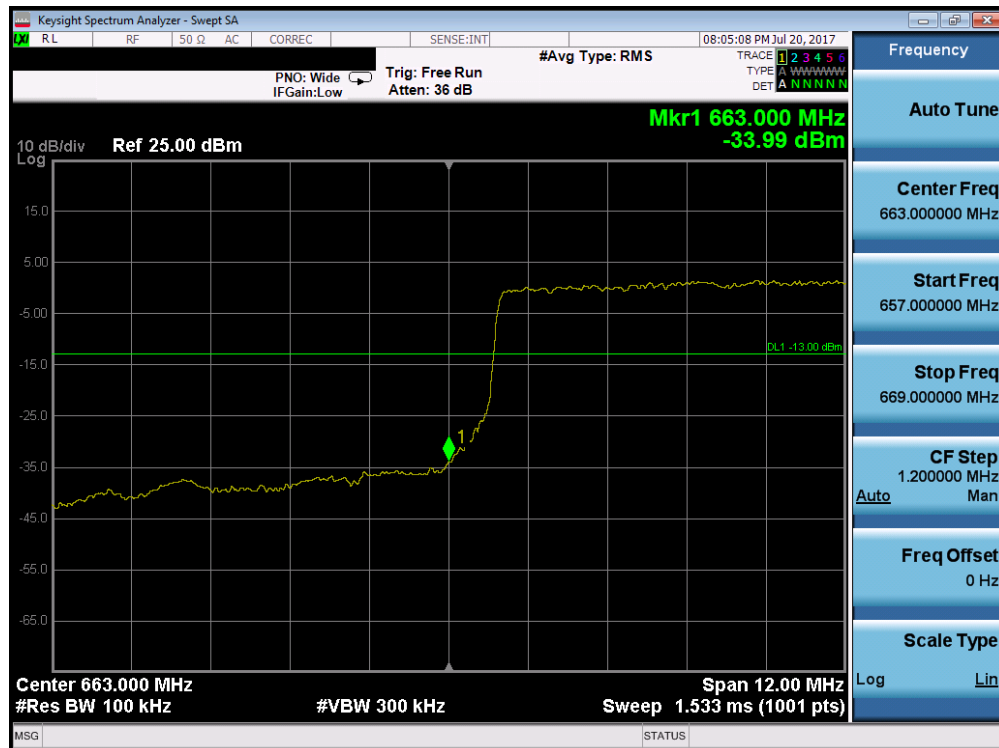


Plot 7-141. Lower Band Edge Plot (Band 71 – 10.0MHz QPSK – RB Size 50)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 89 of 178

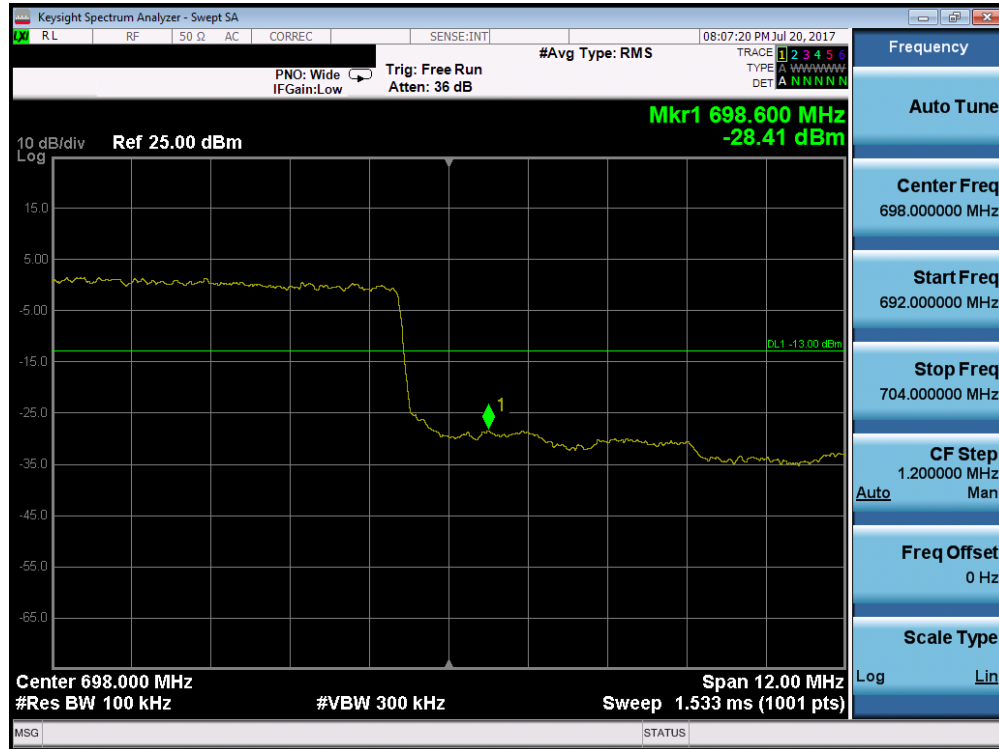


Plot 7-142. Upper Band Edge Plot (Band 71 – 10.0MHz QPSK – RB Size 50)

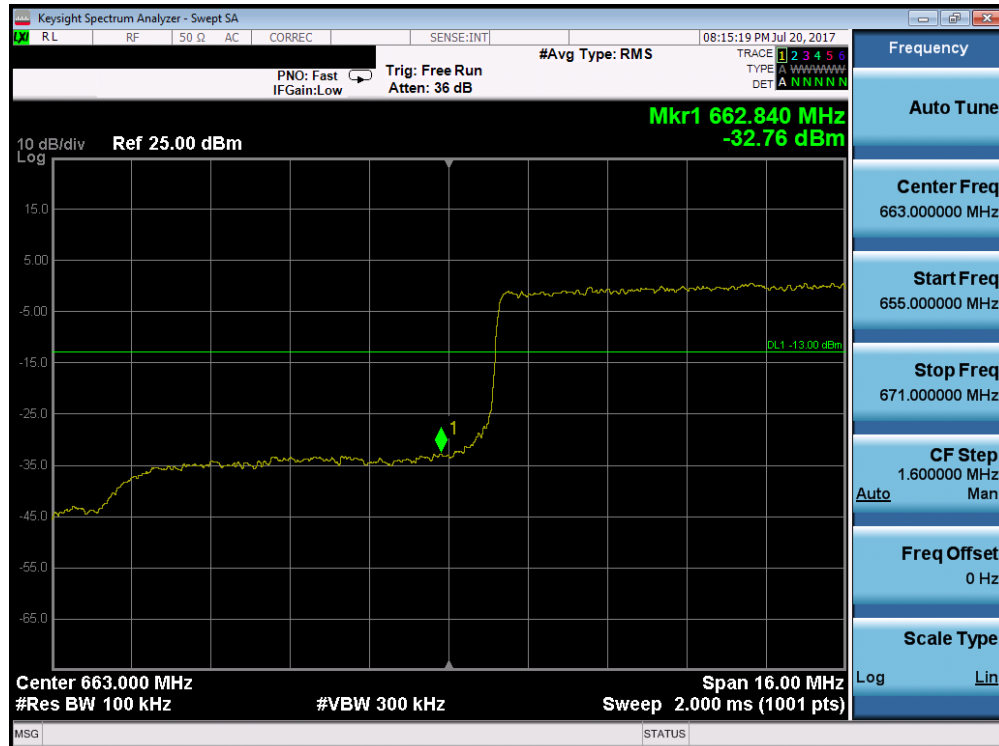


Plot 7-143. Lower Band Edge Plot (Band 71 – 15.0MHz QPSK – RB Size 75)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 90 of 178



Plot 7-144. Upper Band Edge Plot (Band 71 – 15.0MHz QPSK – RB Size 75)

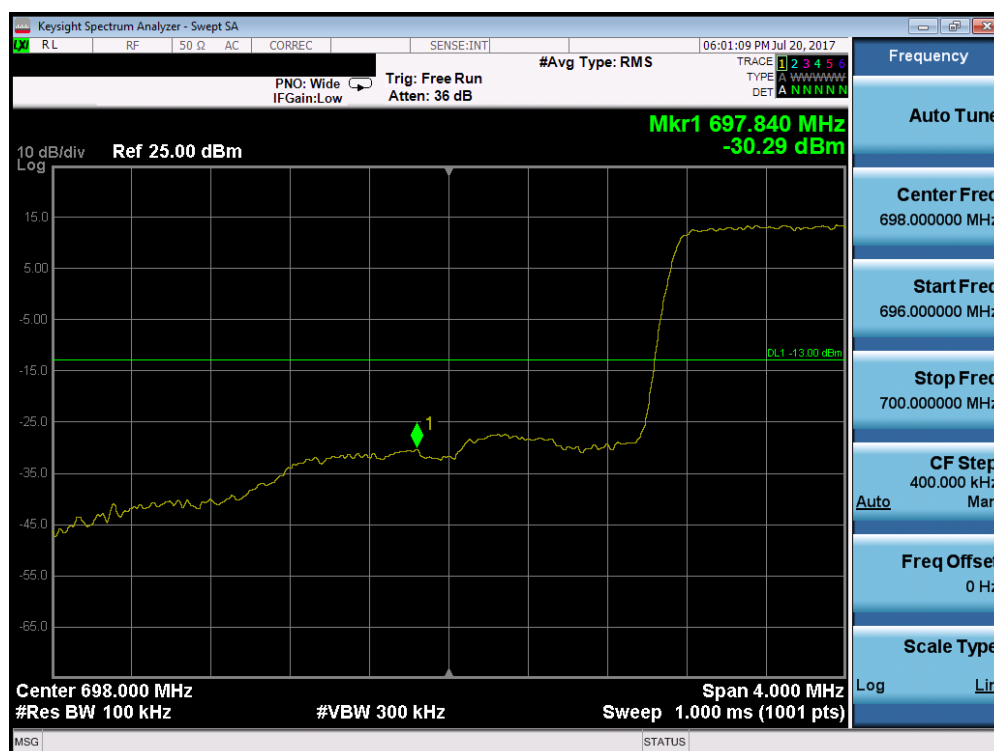


Plot 7-145. Lower Band Edge Plot (Band 71 – 20.0MHz QPSK – RB Size 100)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 91 of 178

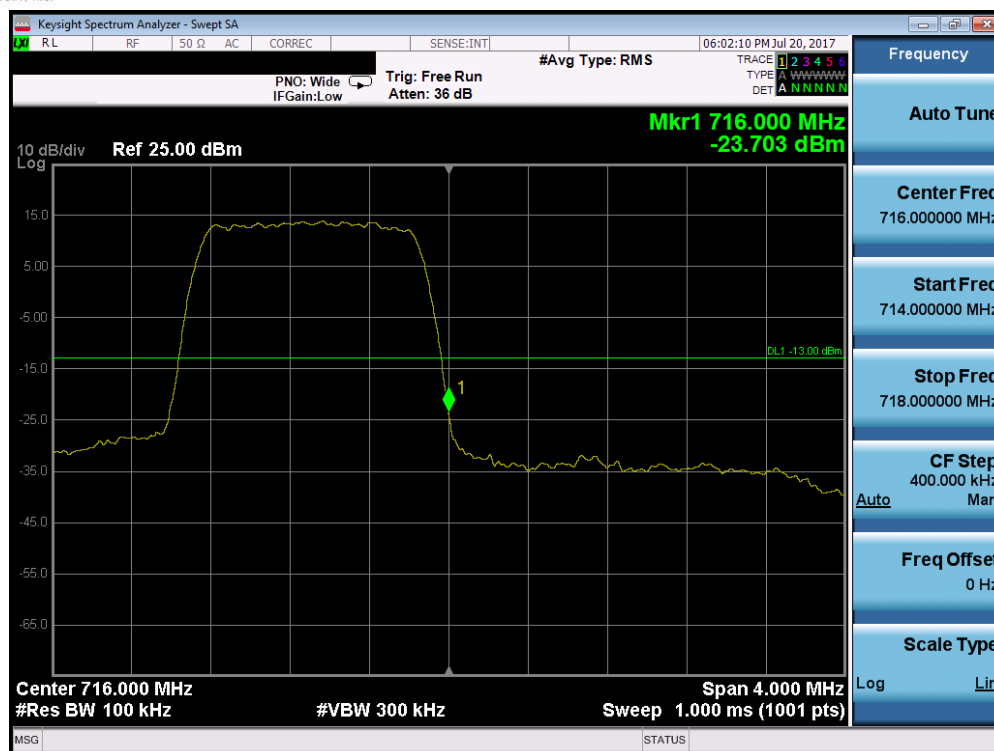


Plot 7-146. Upper Band Edge Plot (Band 71 – 20.0MHz QPSK – RB Size 100)

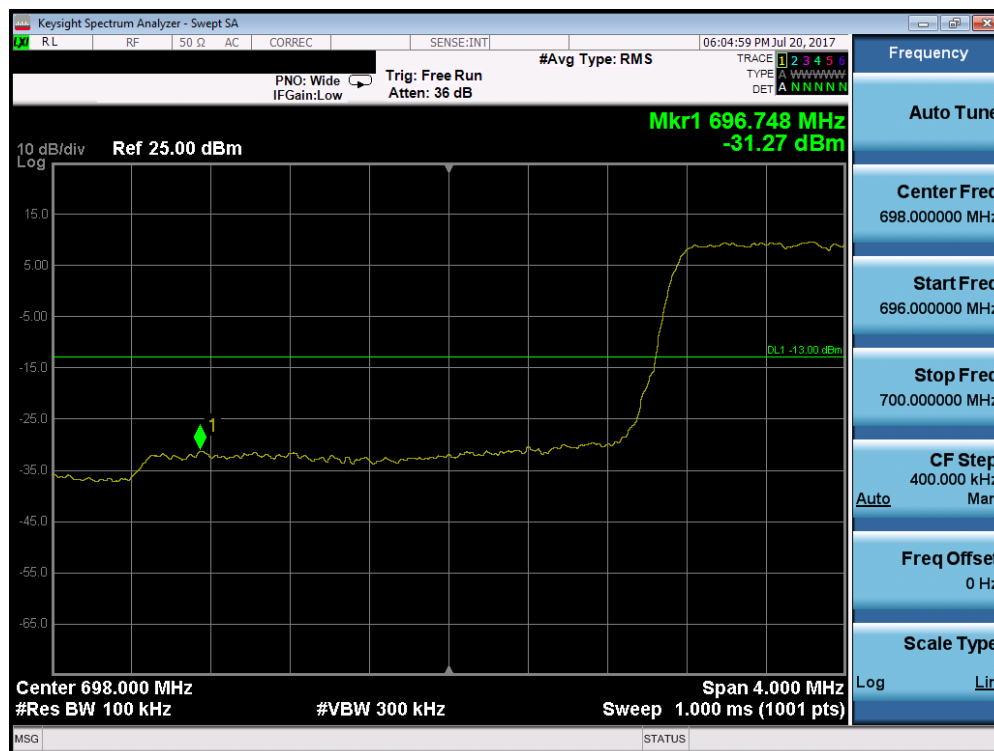


Plot 7-147. Lower Band Edge Plot (Band 12 – 1.4MHz QPSK – RB Size 6)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 92 of 178

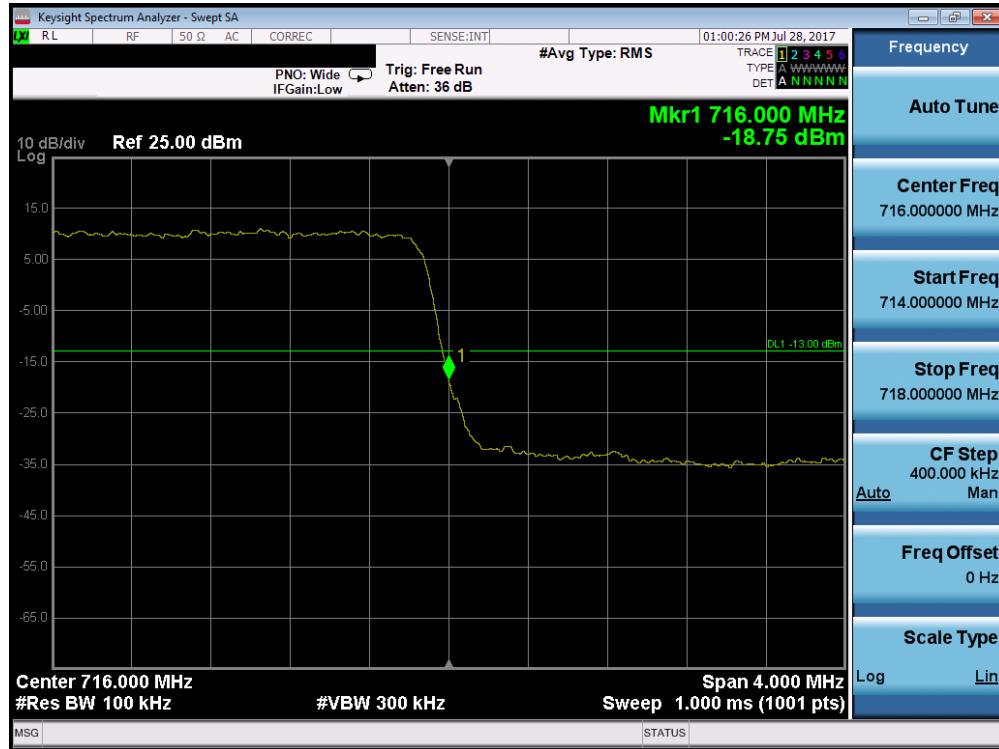


Plot 7-148. Upper Band Edge Plot (Band 12 – 1.4MHz QPSK – RB Size 6)

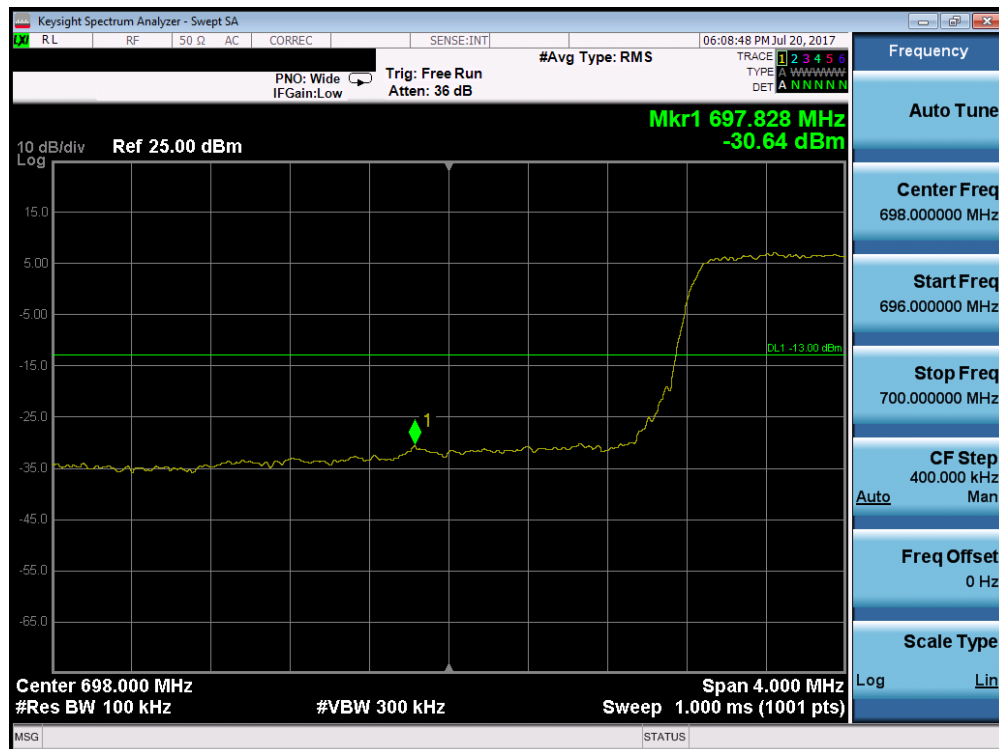


Plot 7-149. Lower Band Edge Plot (Band 12 – 3.0MHz QPSK – RB Size 15)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 93 of 178

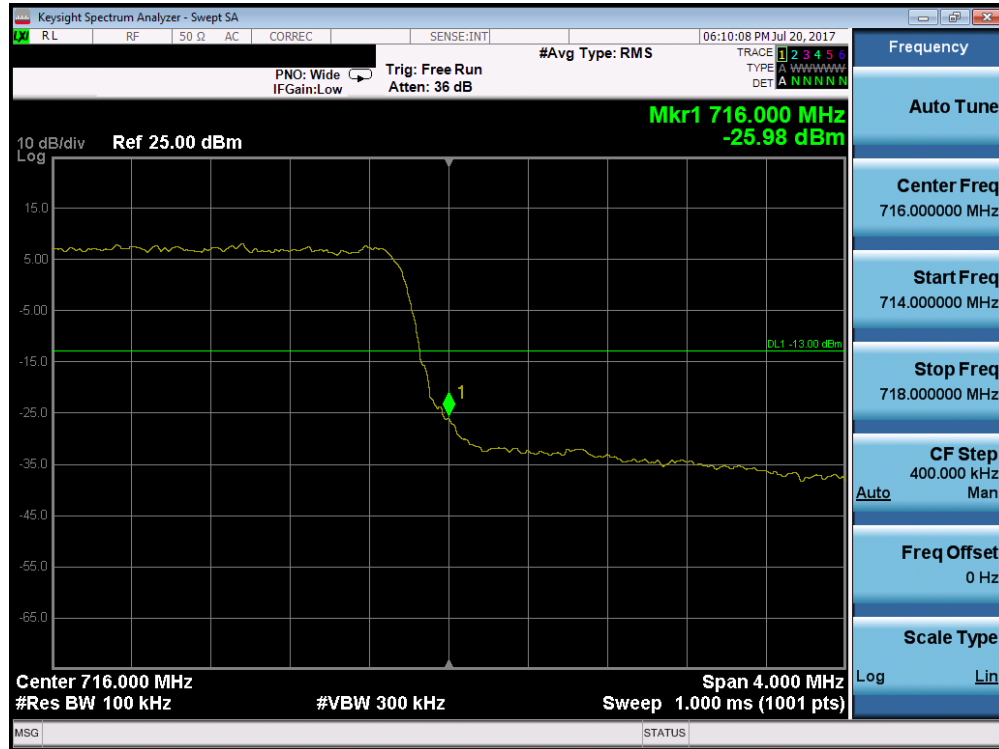


Plot 7-150. Upper Band Edge Plot (Band 12 – 3.0MHz QPSK – RB Size 15)

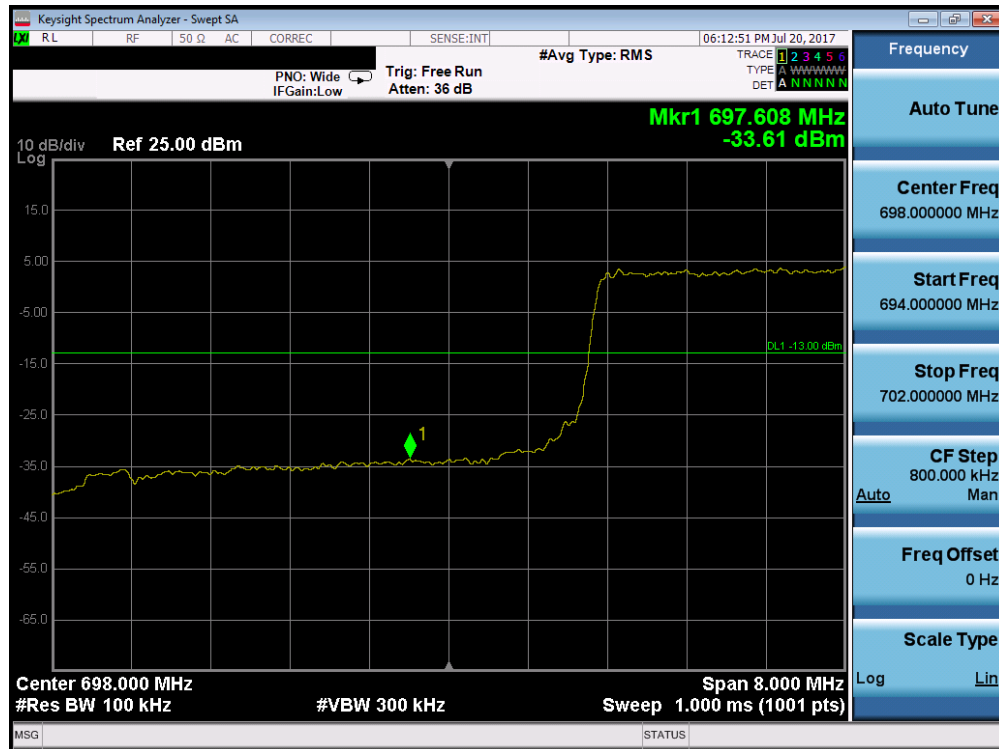


Plot 7-151. Lower Band Edge Plot (Band 12 – 5.0MHz QPSK – RB Size 25)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 94 of 178

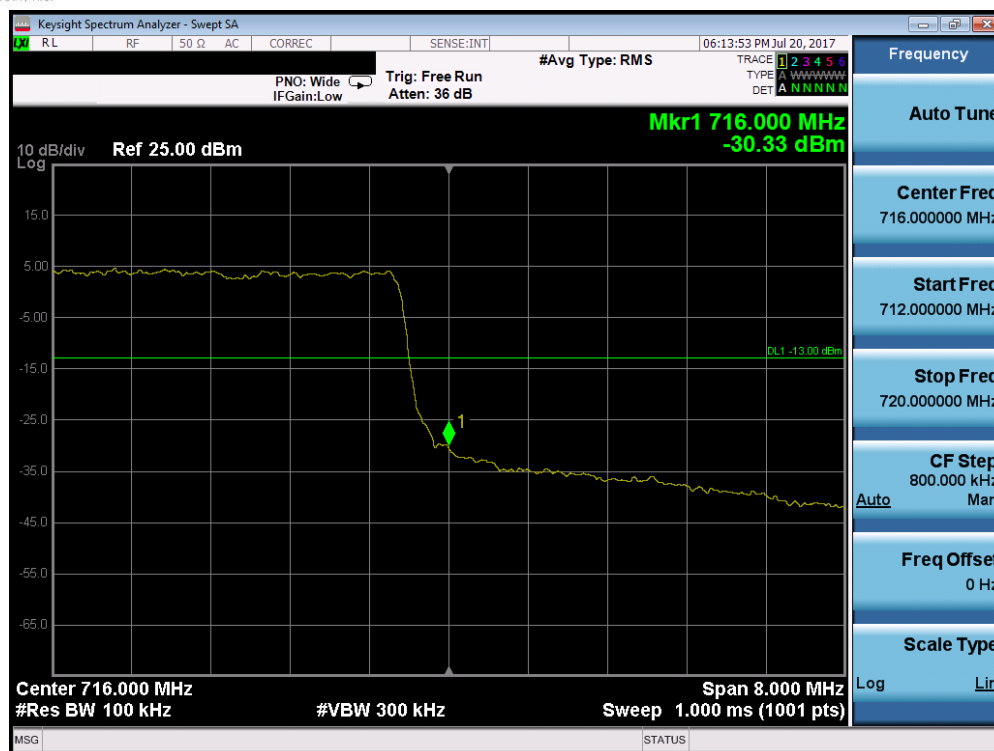


Plot 7-152. Upper Band Edge Plot (Band 12 – 5.0MHz QPSK – RB Size 25)

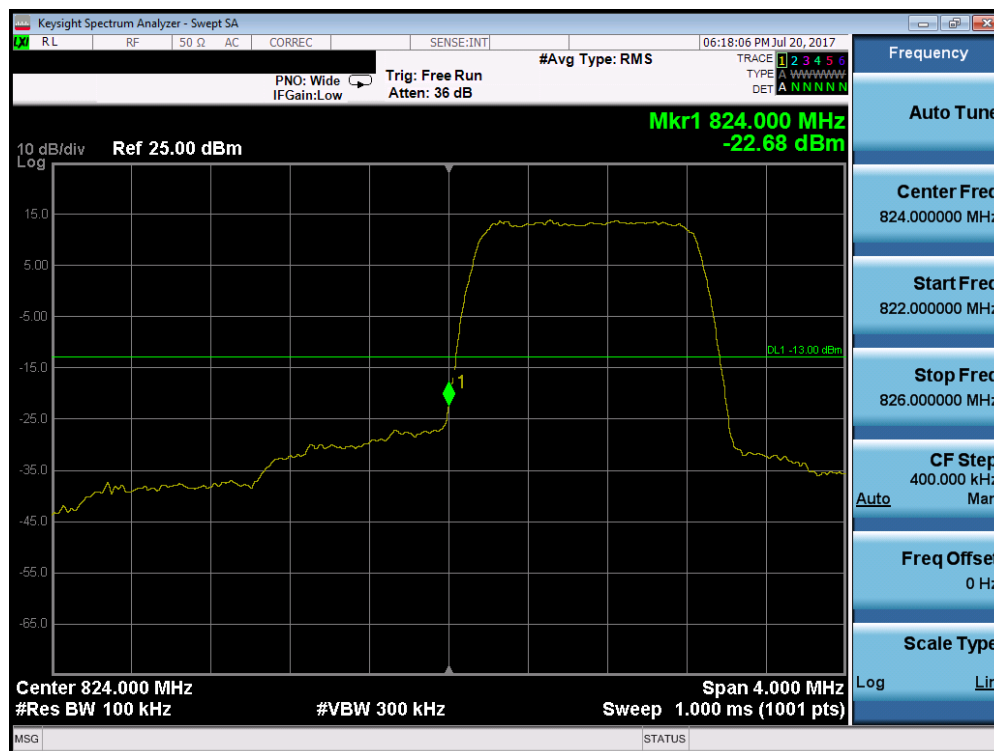


Plot 7-153. Lower Band Edge Plot (Band 12 – 10.0MHz QPSK – RB Size 50)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 95 of 178

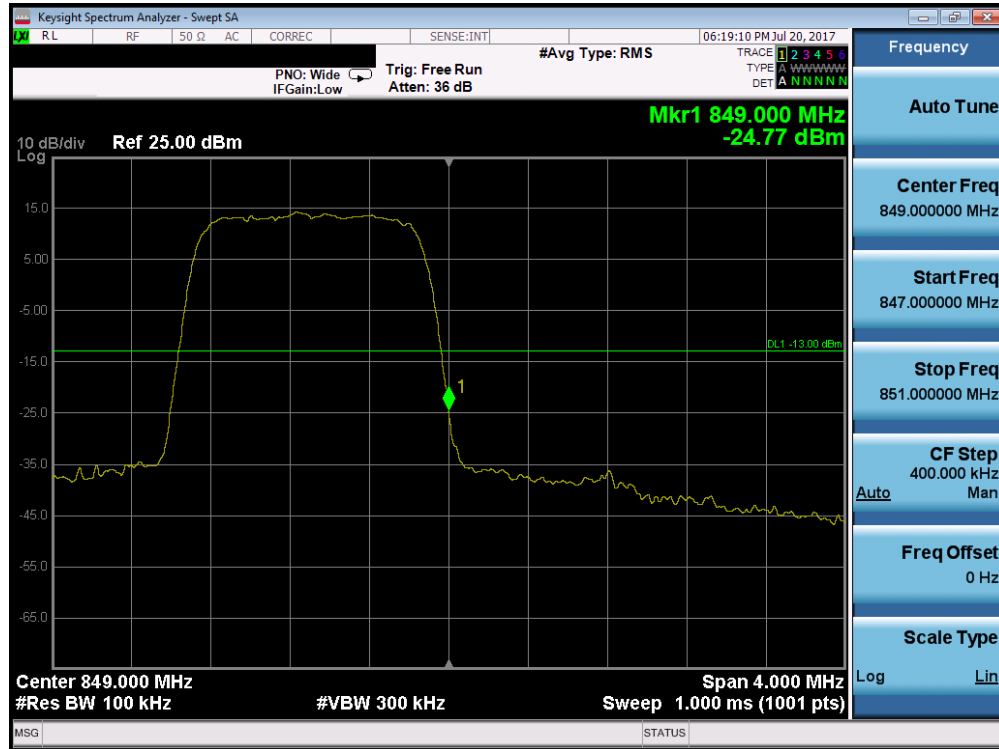


Plot 7-154. Upper Band Edge Plot (Band 12 – 10.0MHz QPSK – RB Size 50)

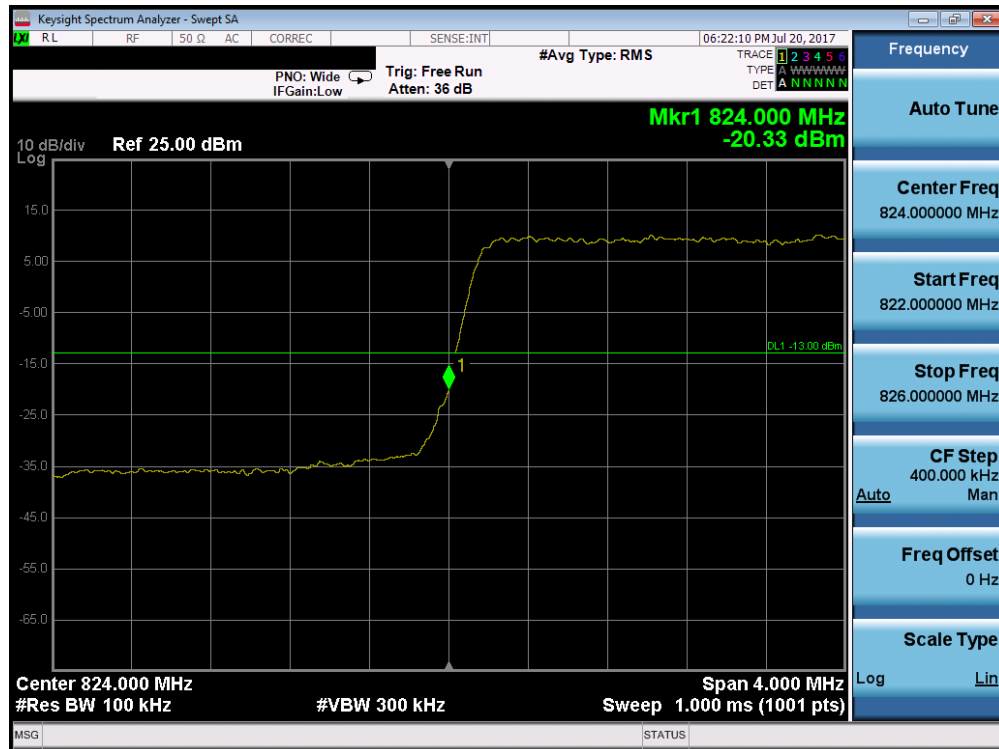


Plot 7-155. Lower Band Edge Plot (Band 5 – 1.4MHz QPSK – RB Size 6)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 96 of 178



Plot 7-156. Upper Band Edge Plot (Band 5 – 1.4MHz QPSK – RB Size 6)

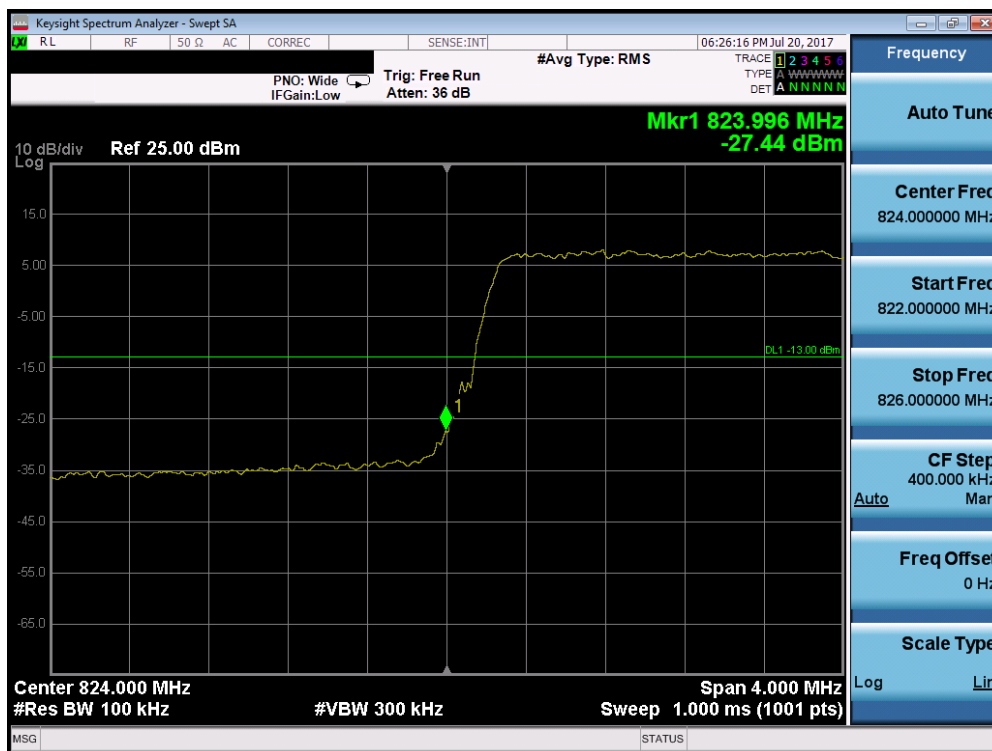


Plot 7-157. Lower Band Edge Plot (Band 5 – 3.0MHz QPSK – RB Size 15)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 97 of 178



Plot 7-158. Upper Band Edge Plot (Band 5 – 3.0MHz QPSK – RB Size 15)

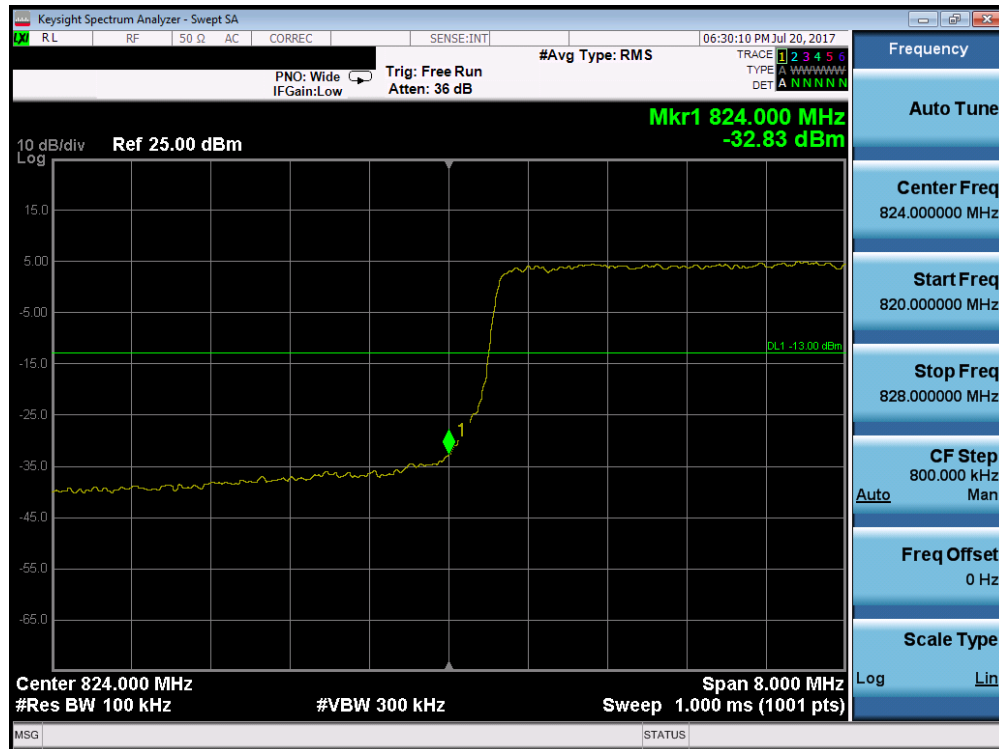


Plot 7-159. Lower Band Edge Plot (Band 5 – 5.0MHz QPSK – RB Size 25)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 98 of 178



Plot 7-160. Upper Band Edge Plot (Band 5 – 5.0MHz QPSK – RB Size 25)

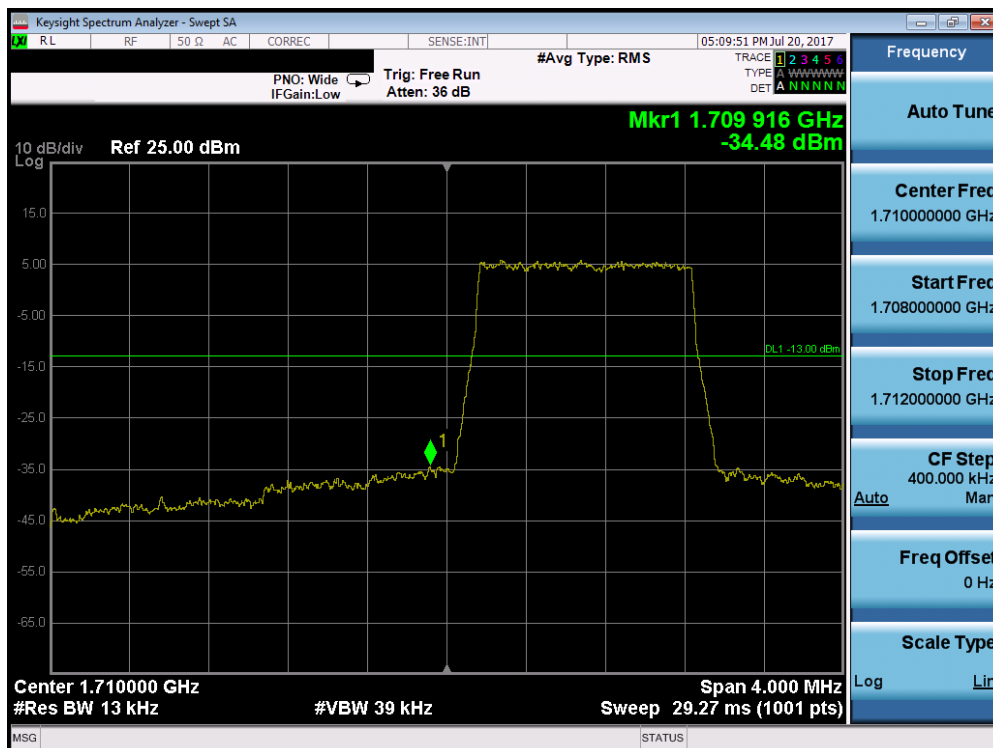


Plot 7-161. Lower Band Edge Plot (Band 5 – 10.0MHz QPSK – RB Size 50)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 99 of 178

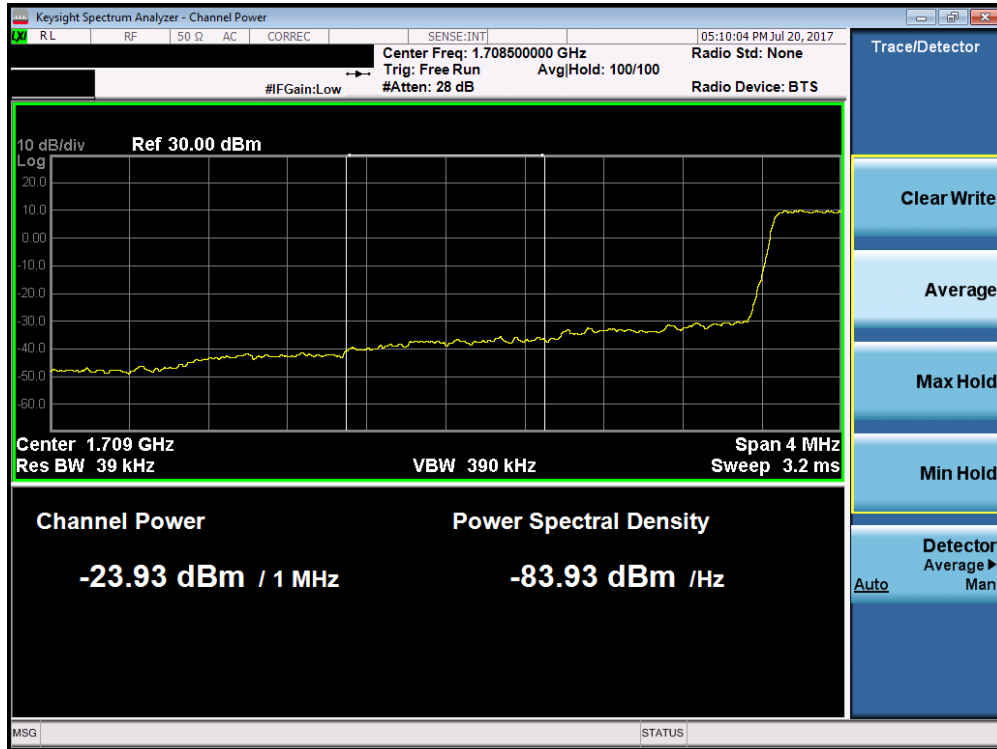


Plot 7-162. Upper Band Edge Plot (Band 5 – 10.0MHz QPSK – RB Size 50)

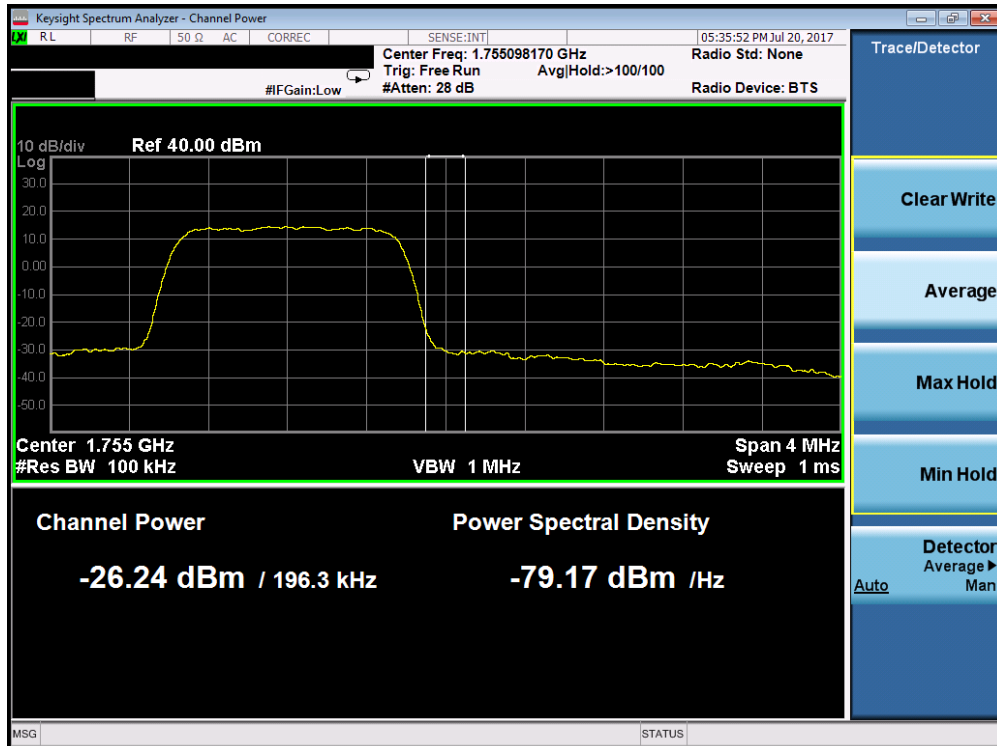


Plot 7-163. Lower Band Edge Plot (Band 4/66 – 1.4MHz QPSK – RB Size 6)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 100 of 178

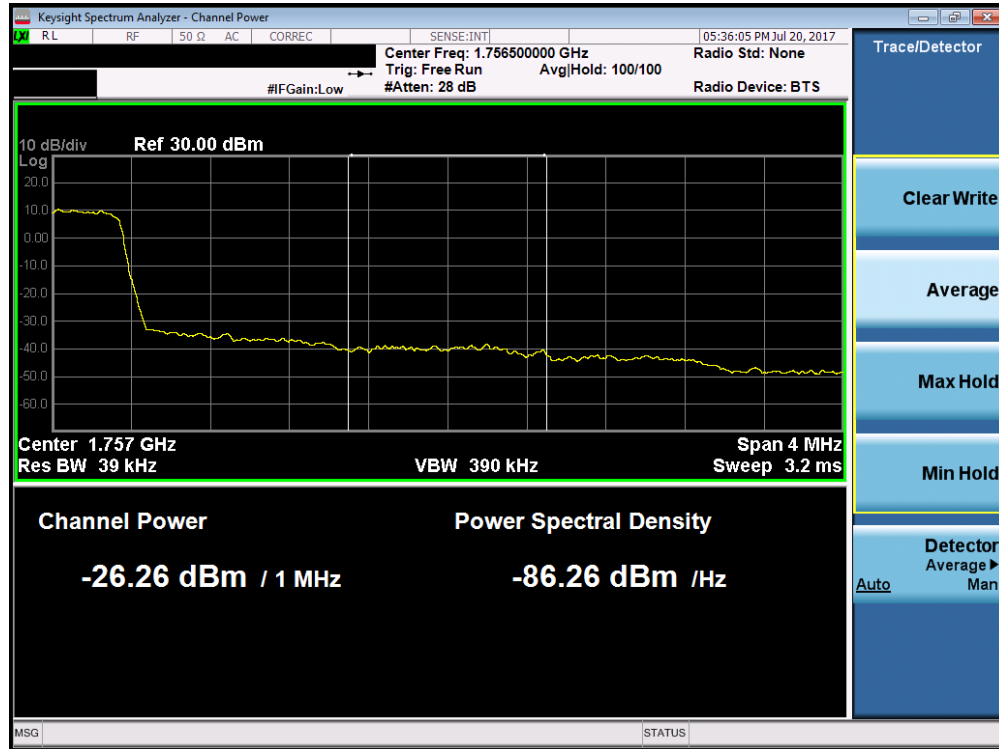


Plot 7-164. Lower Extended Band Edge Plot (Band 4/66 – 1.4MHz QPSK – RB Size 6)

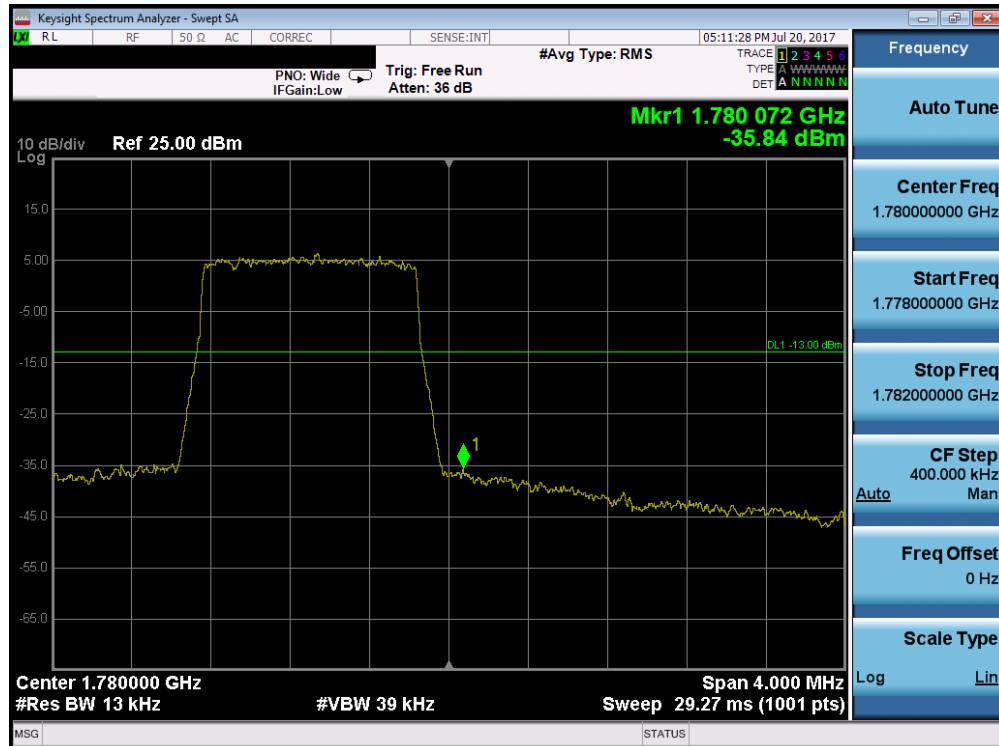


Plot 7-165. Upper Band Edge Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 101 of 178

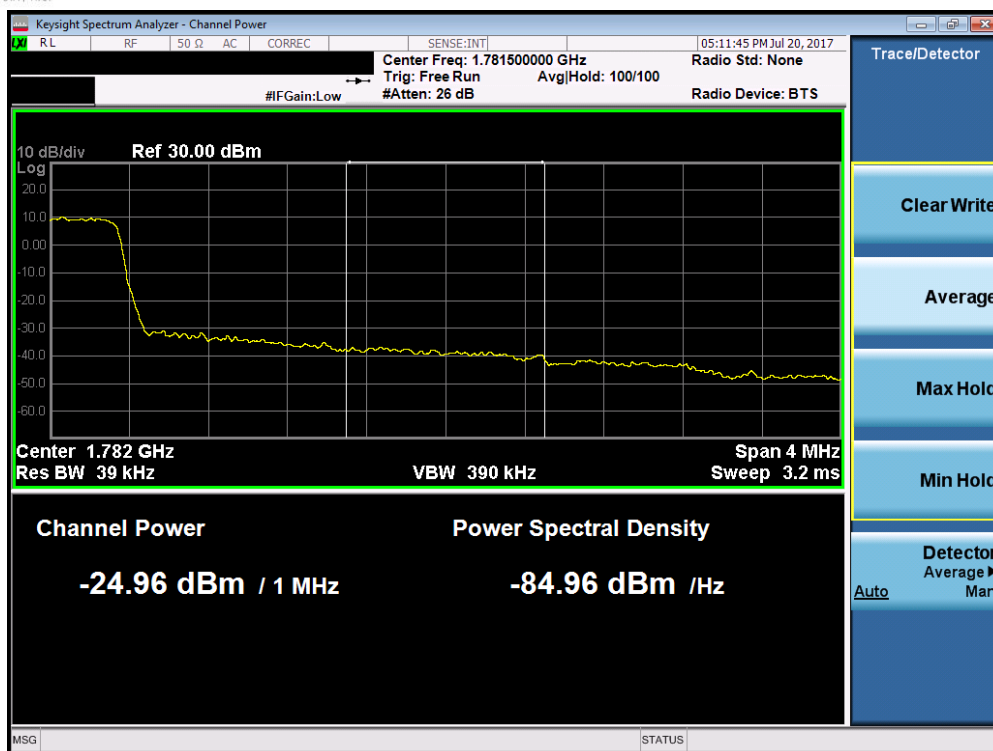


Plot 7-166. Upper Extended Band Edge Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

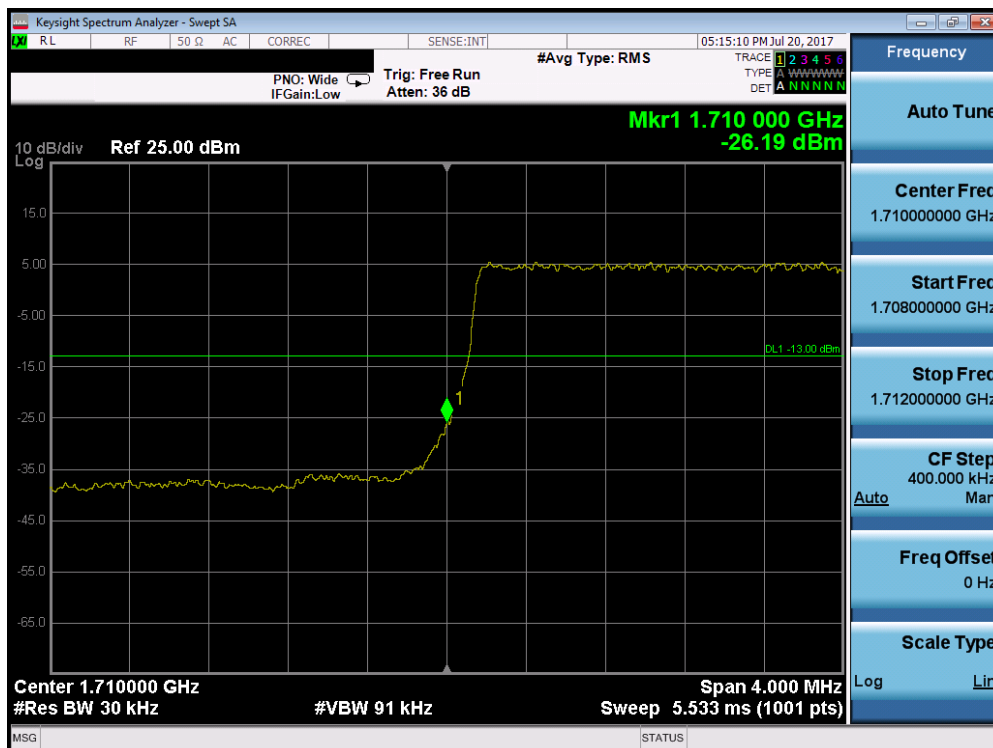


Plot 7-167. Upper Band Edge Plot (Band 66 – 1.4MHz QPSK – RB Size 6)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 102 of 178

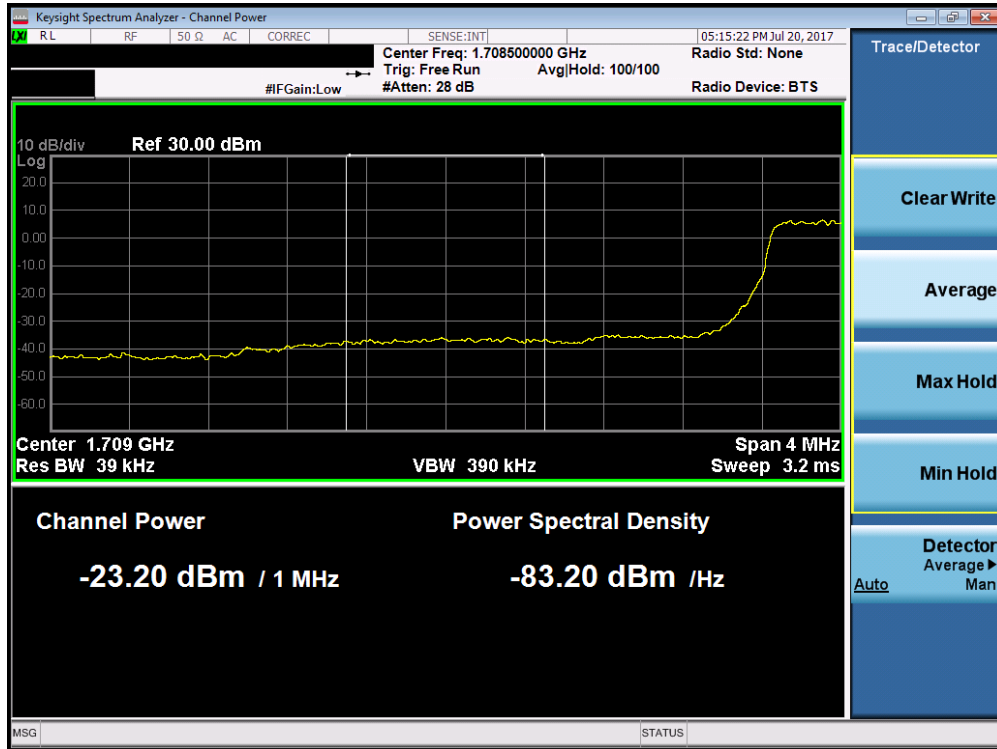


Plot 7-168. Upper Extended Band Edge Plot (Band 66 – 1.4MHz QPSK – RB Size 6)

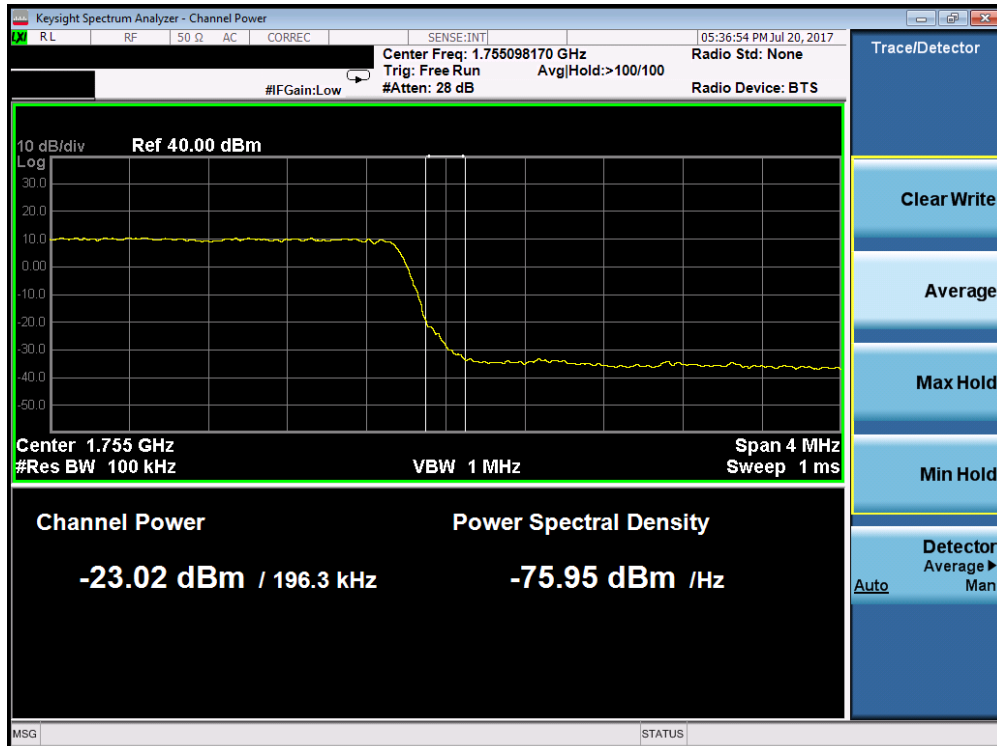


Plot 7-169. Lower Band Edge Plot (Band 4/66 – 3.0MHz QPSK – RB Size 15)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 103 of 178

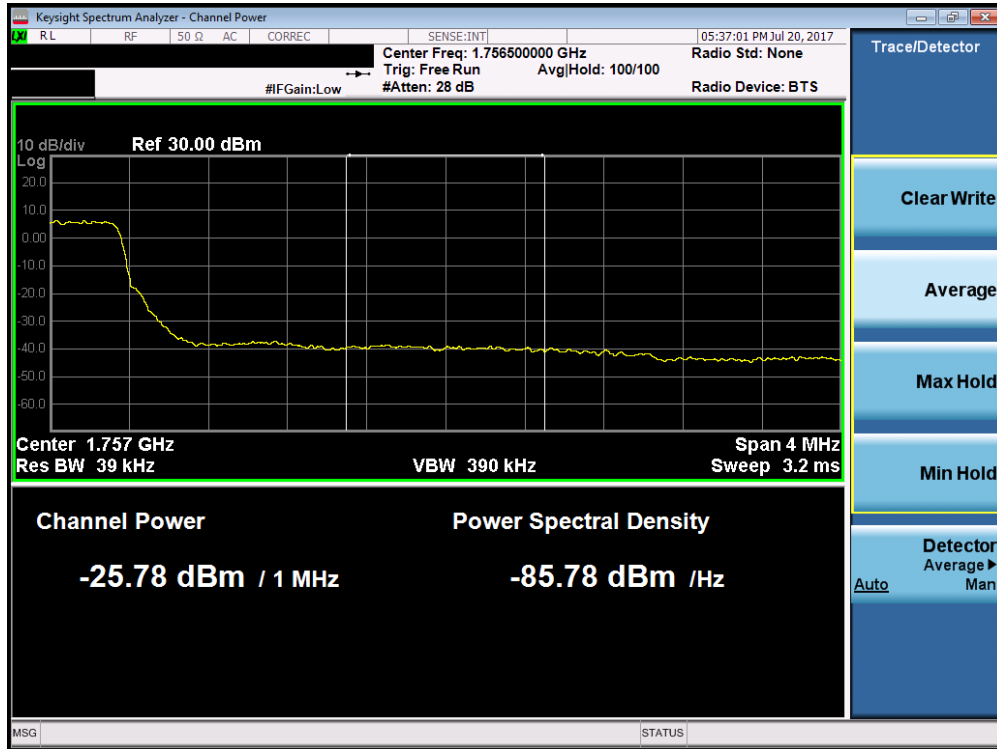


Plot 7-170. Lower Extended Band Edge Plot (Band 4/66 - 3.0MHz QPSK - RB Size 15)

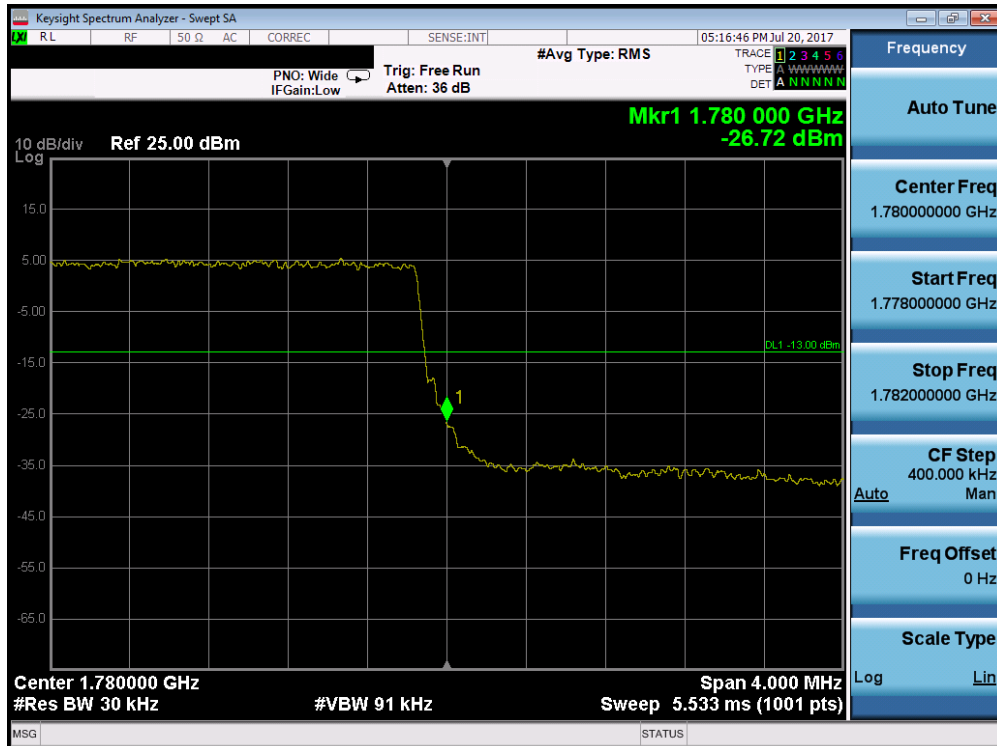


Plot 7-171. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - RB Size 15)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 104 of 178



Plot 7-172. Upper Extended Band Edge Plot (Band 4 – 3.0MHz QPSK – RB Size 15)



Plot 7-173. Upper Band Edge Plot (Band 66 – 3.0MHz QPSK – RB Size 15)

FCC ID: ZNFH932	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N: 1M1707110215-03-R1.ZNF	Test Dates: 7/12/2017-8/8/2017	EUT Type: Portable Handset		Page 105 of 178