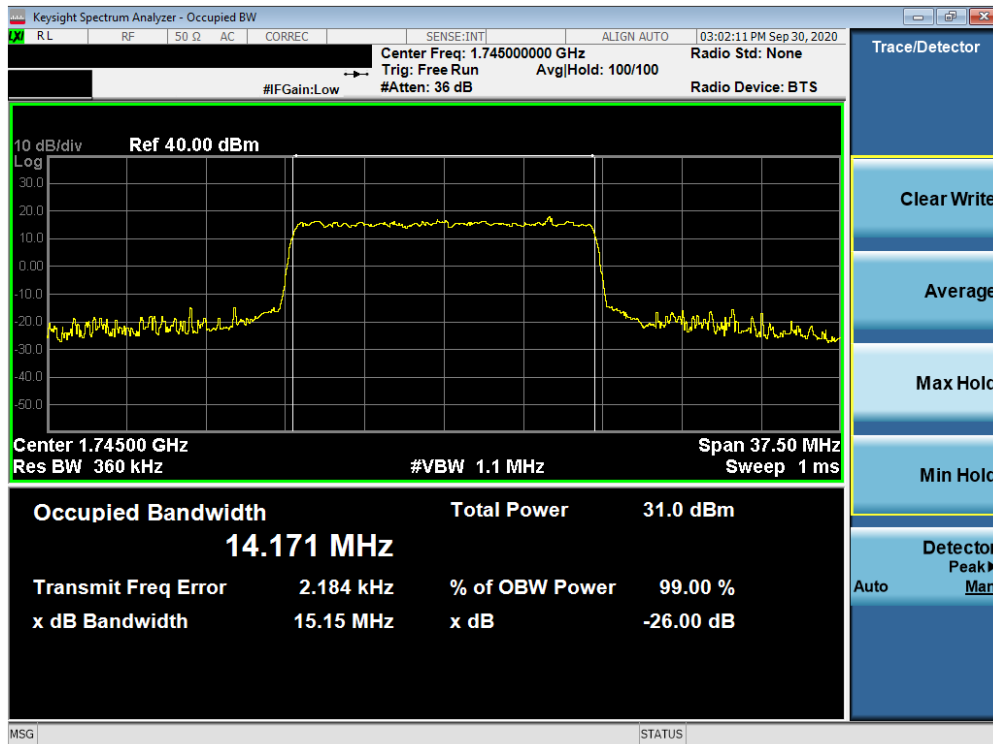
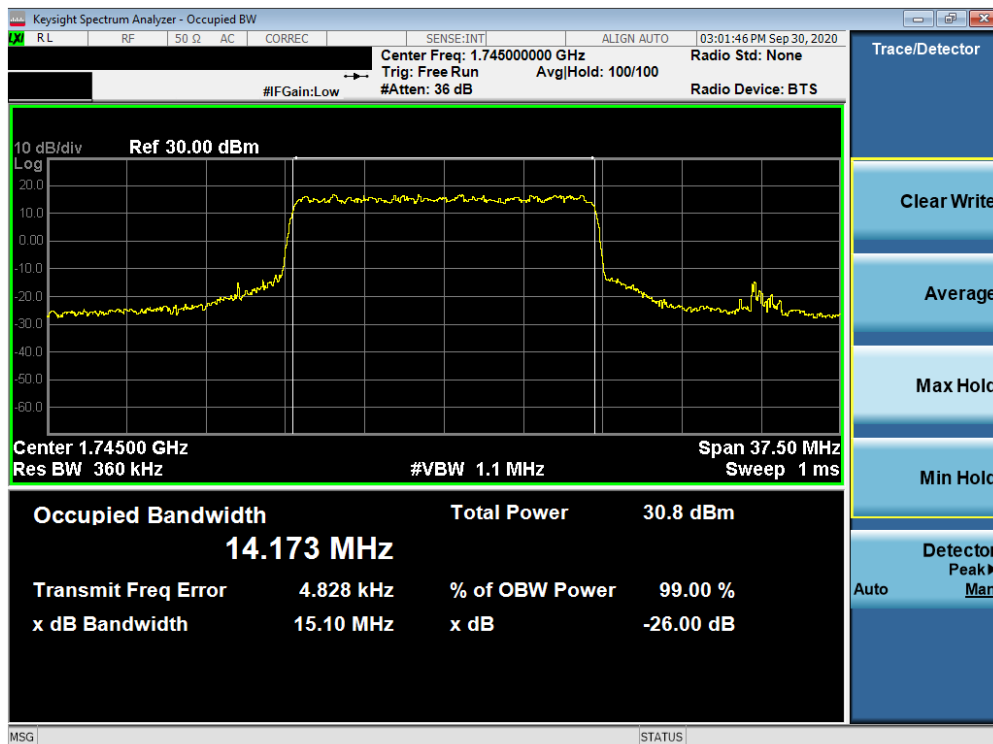


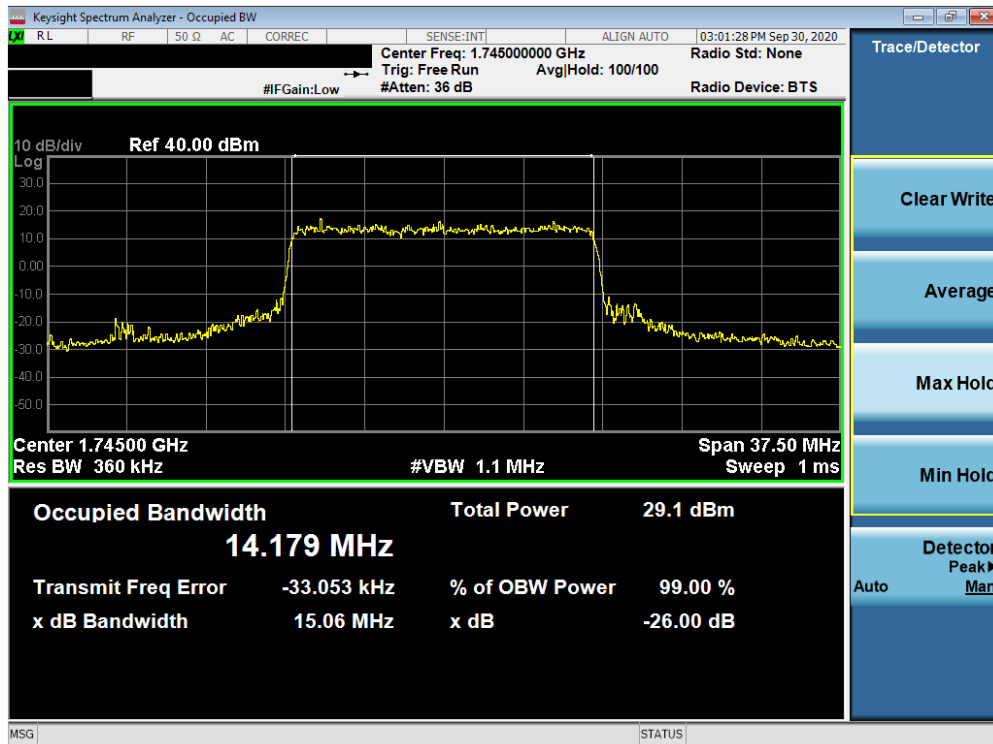


Plot 7-117. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB)

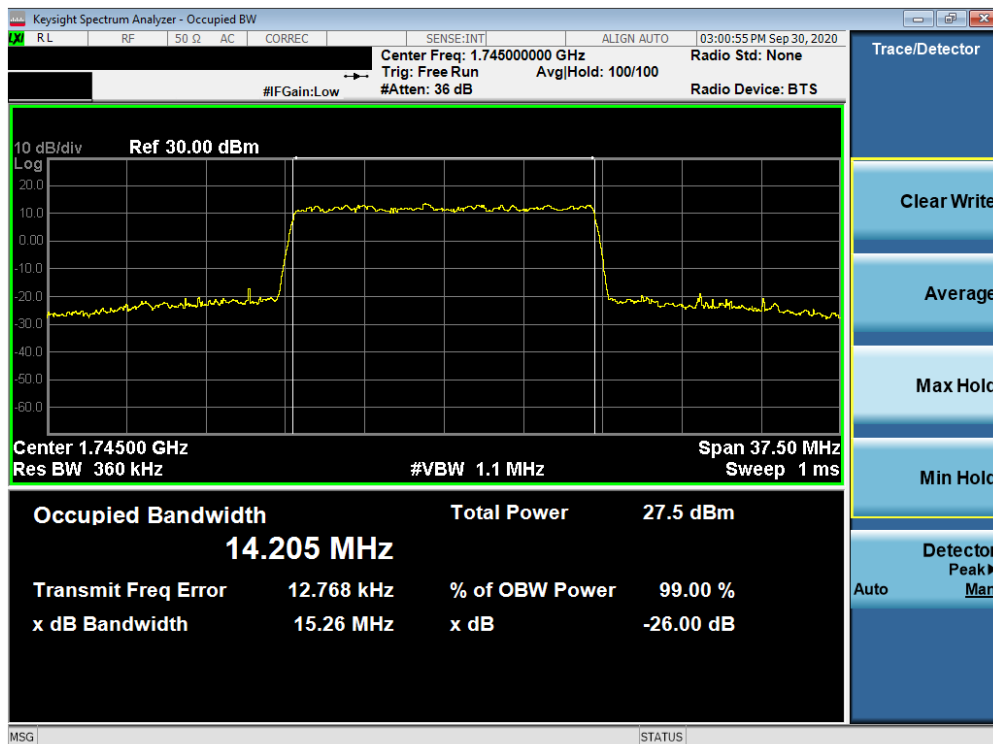


Plot 7-118. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 72 of 297

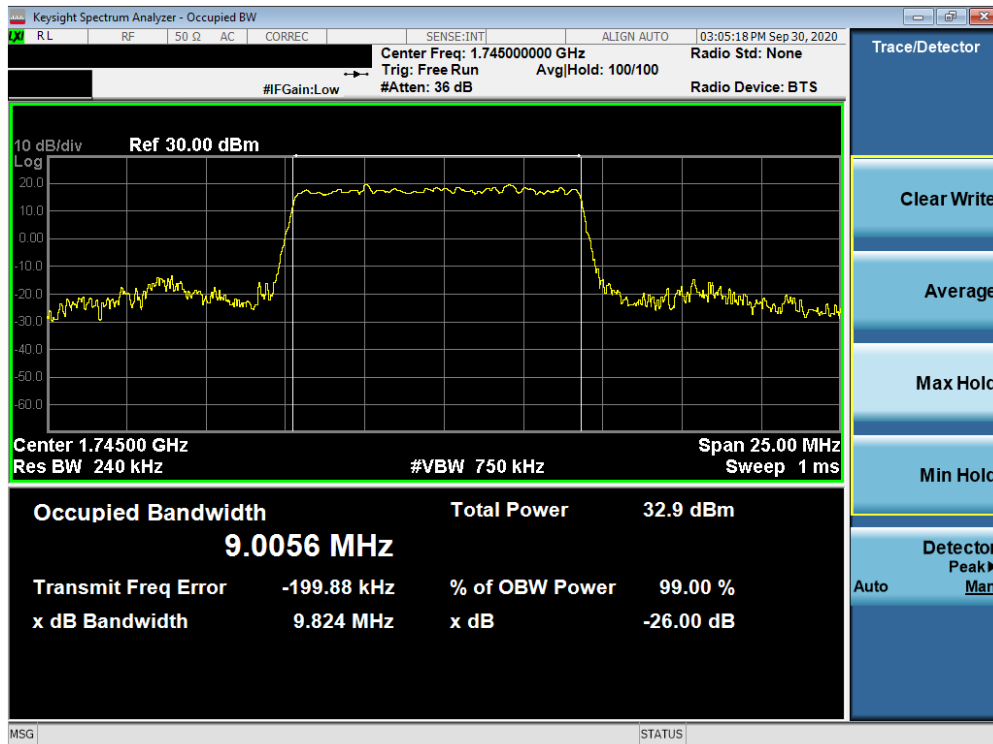


Plot 7-119. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 64QAM - Full RB)

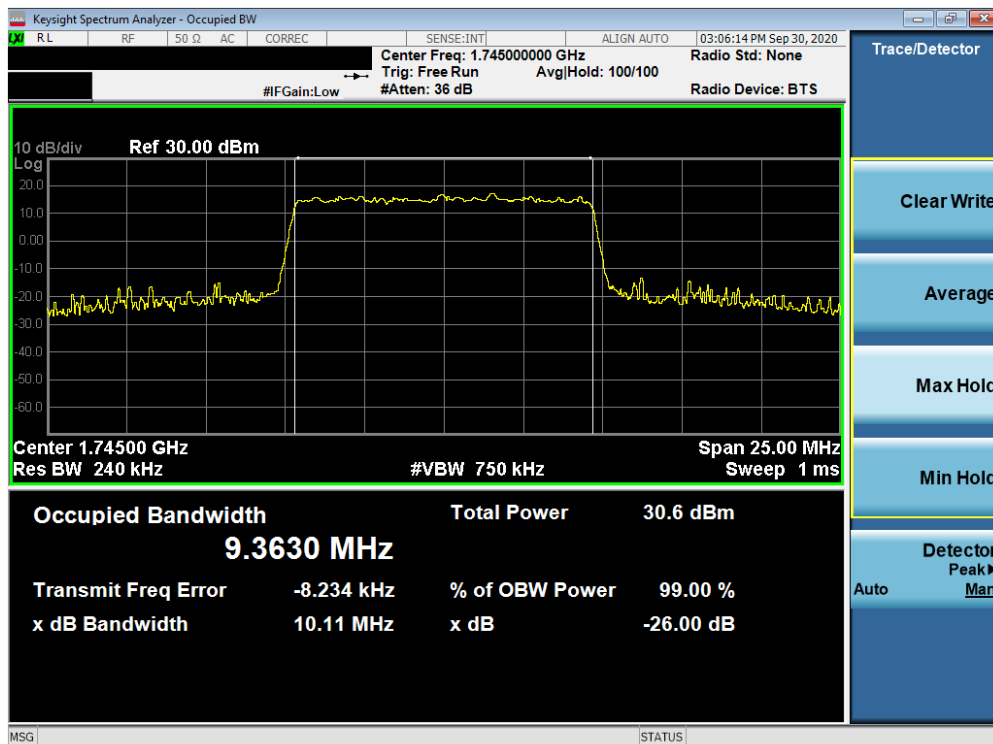


Plot 7-120. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 73 of 297

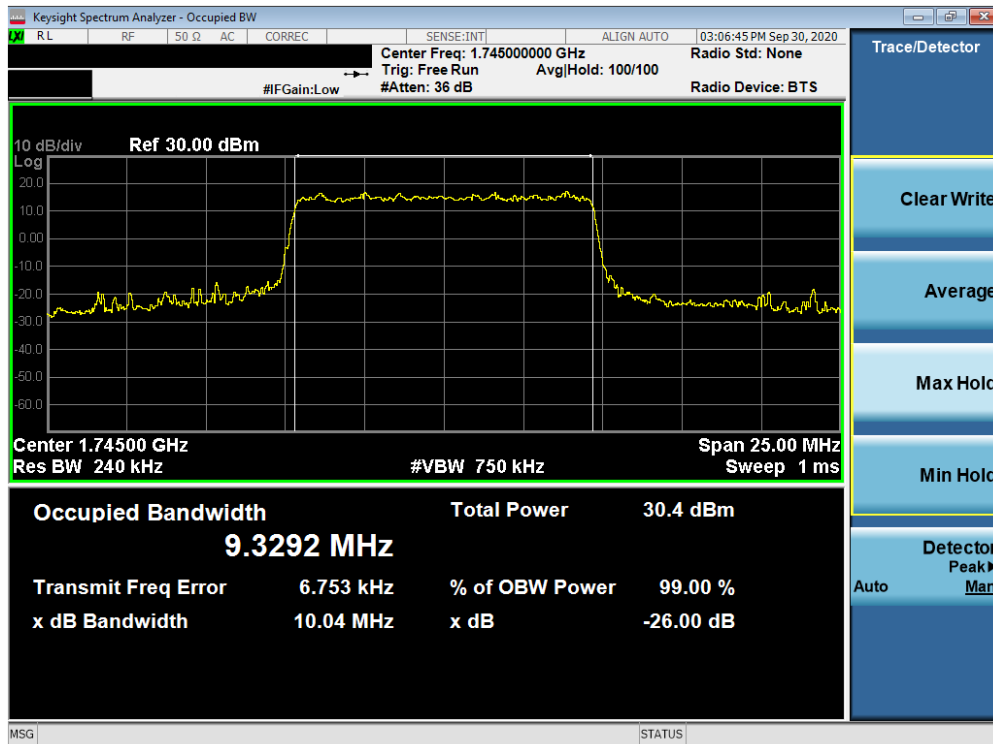


Plot 7-121. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

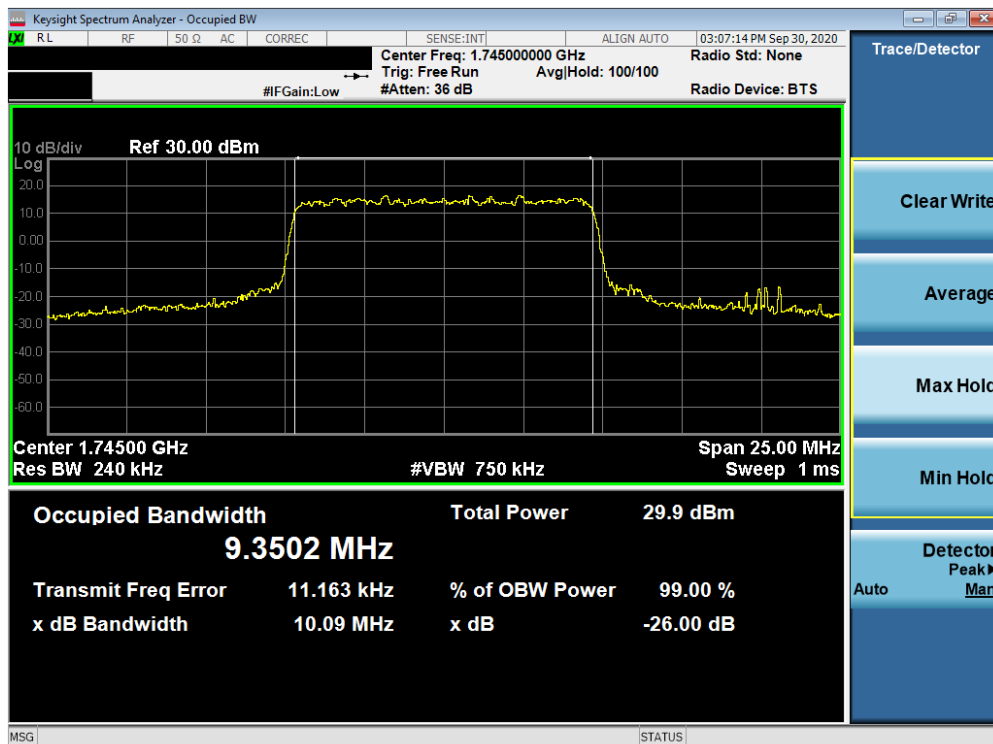


Plot 7-122. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 74 of 297

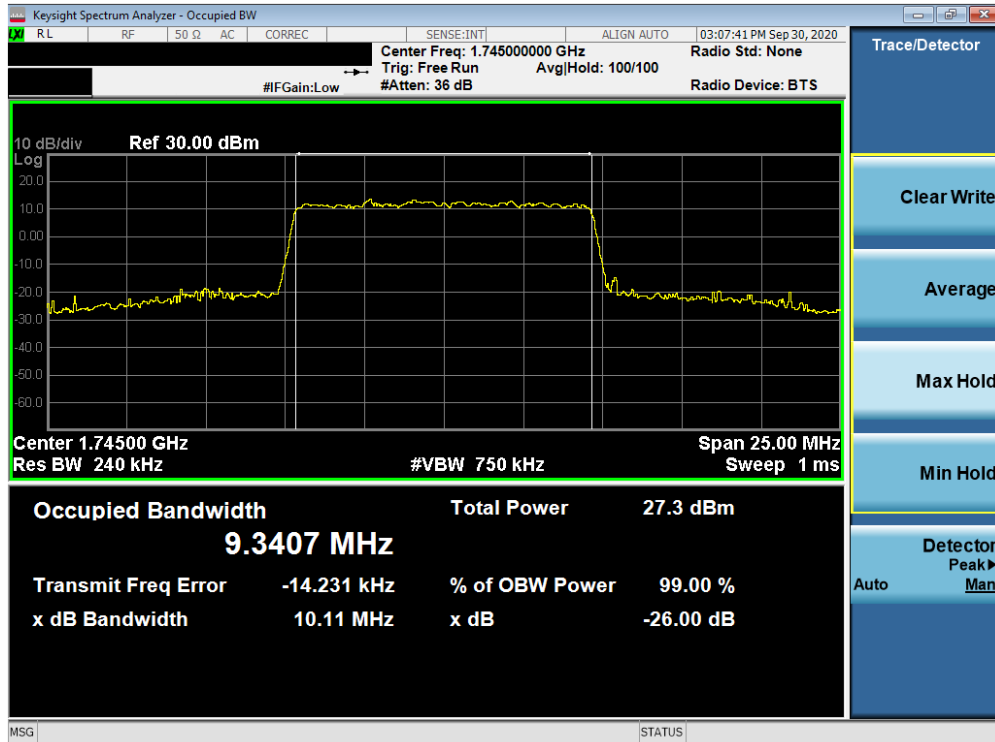


Plot 7-123. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB)

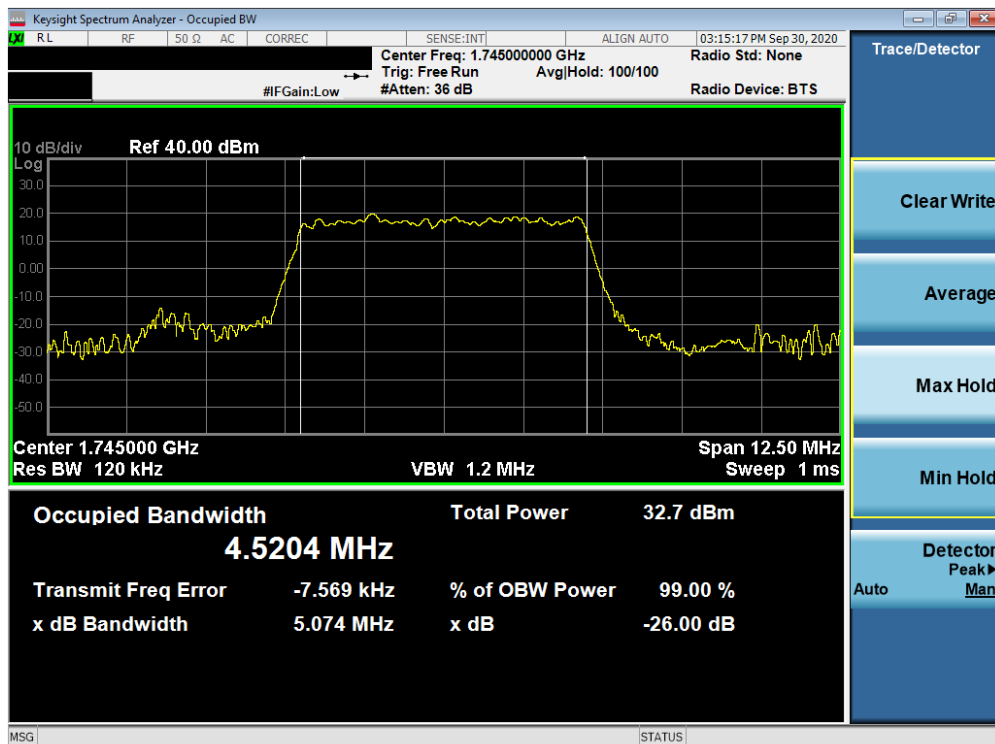


Plot 7-124. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 75 of 297

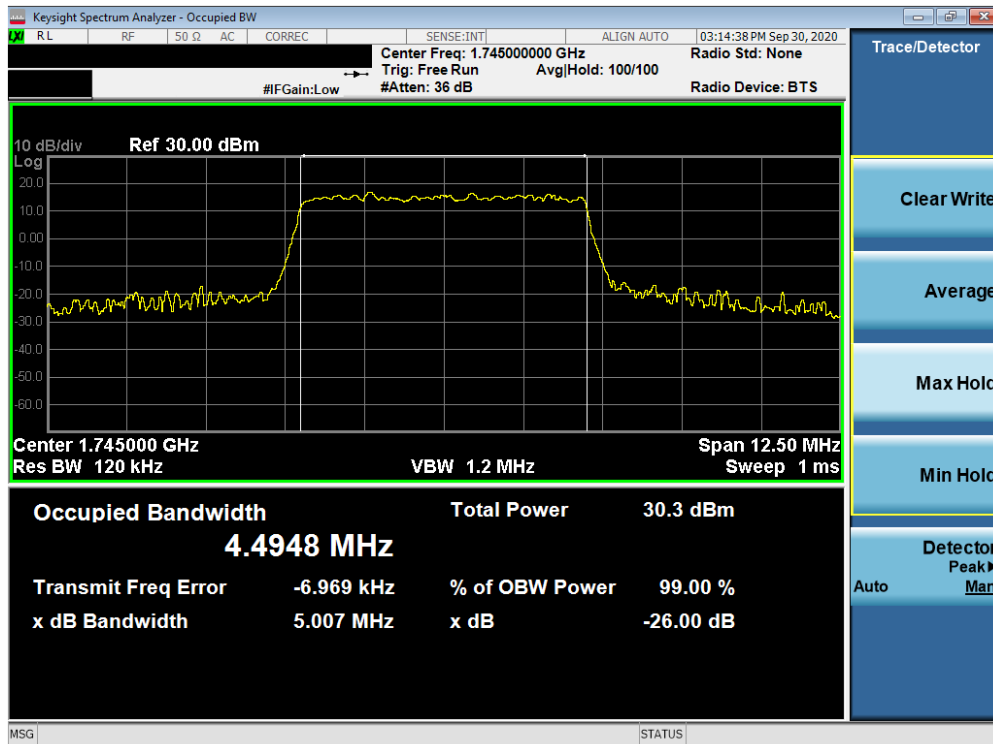


Plot 7-125. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 256QAM - Full RB)

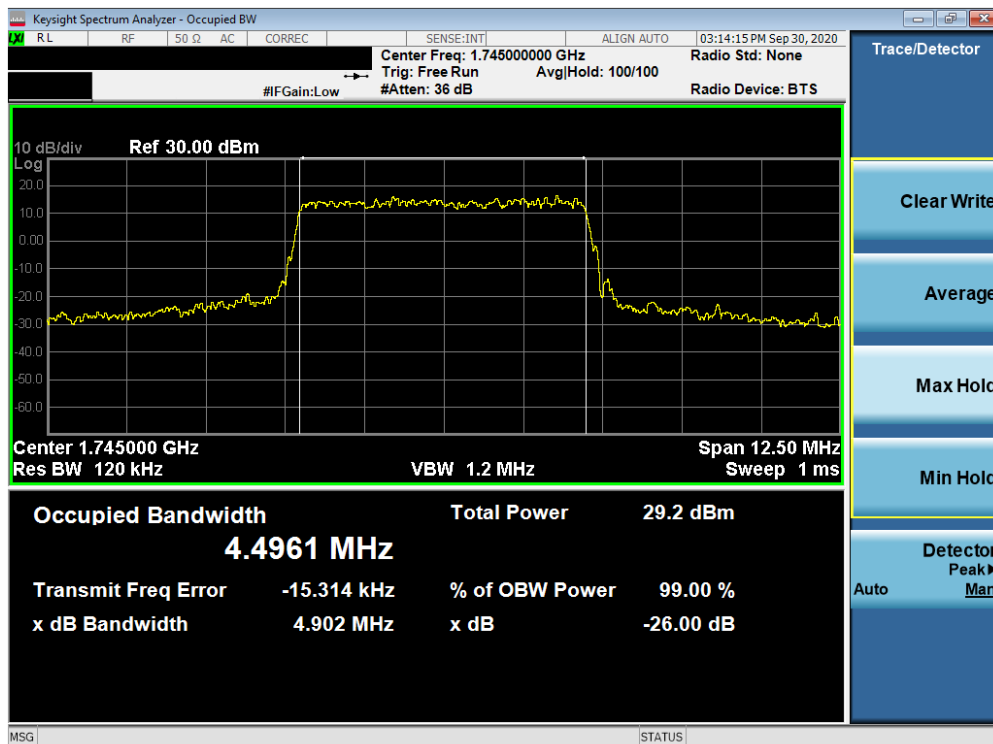


Plot 7-126. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 76 of 297

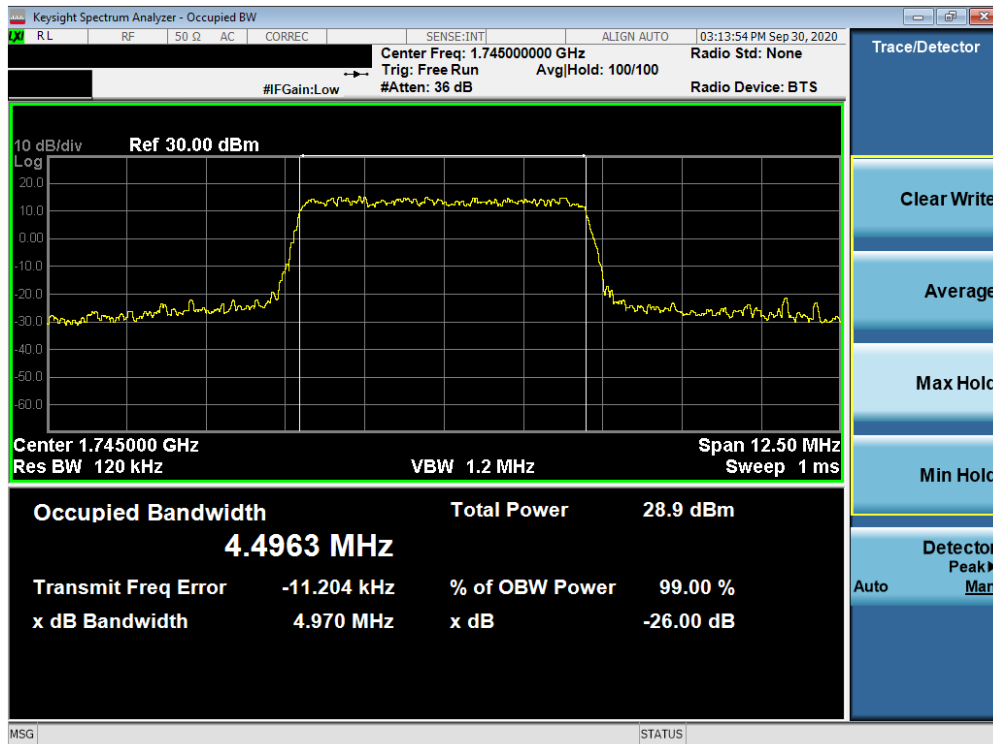


Plot 7-127. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB)

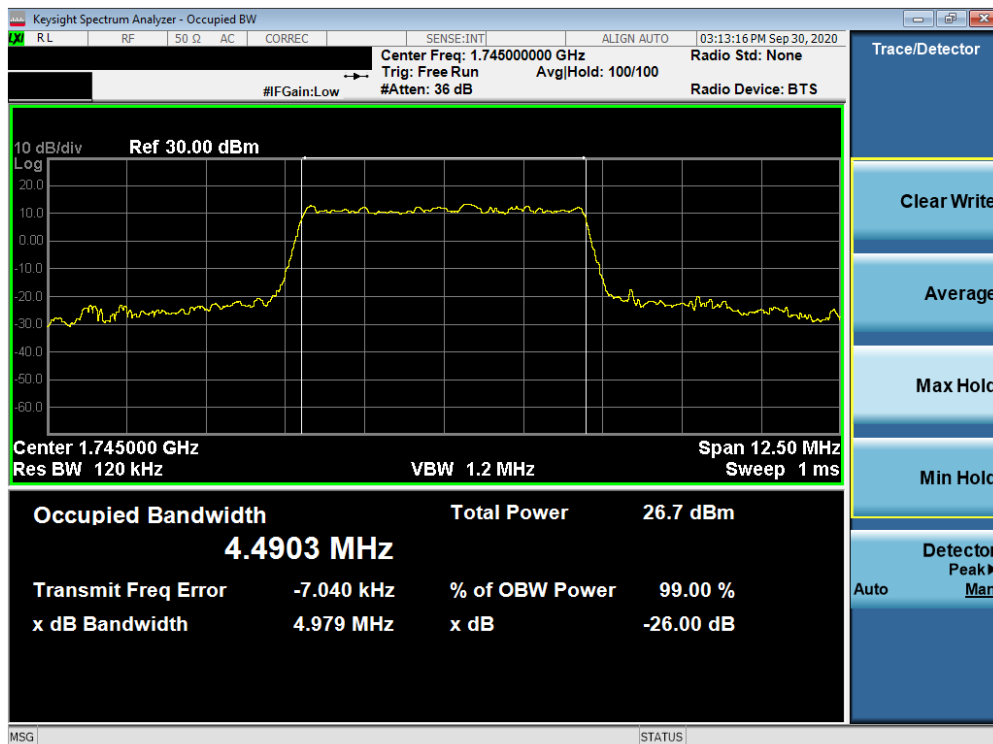


Plot 7-128. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 77 of 297



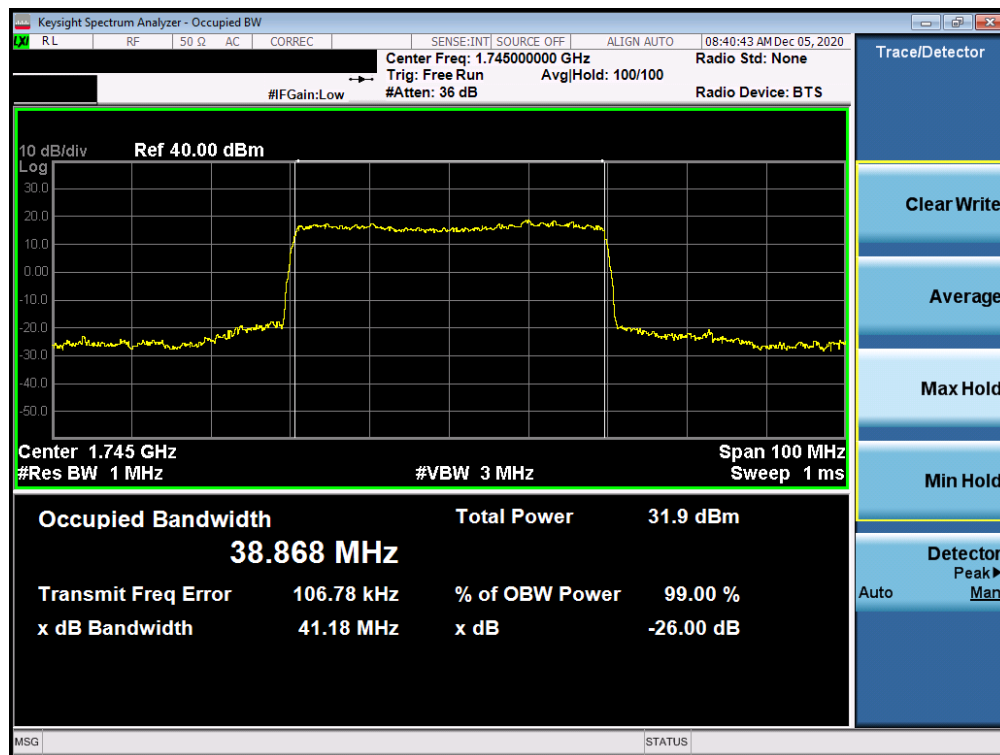
Plot 7-129. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 64QAM - Full RB)



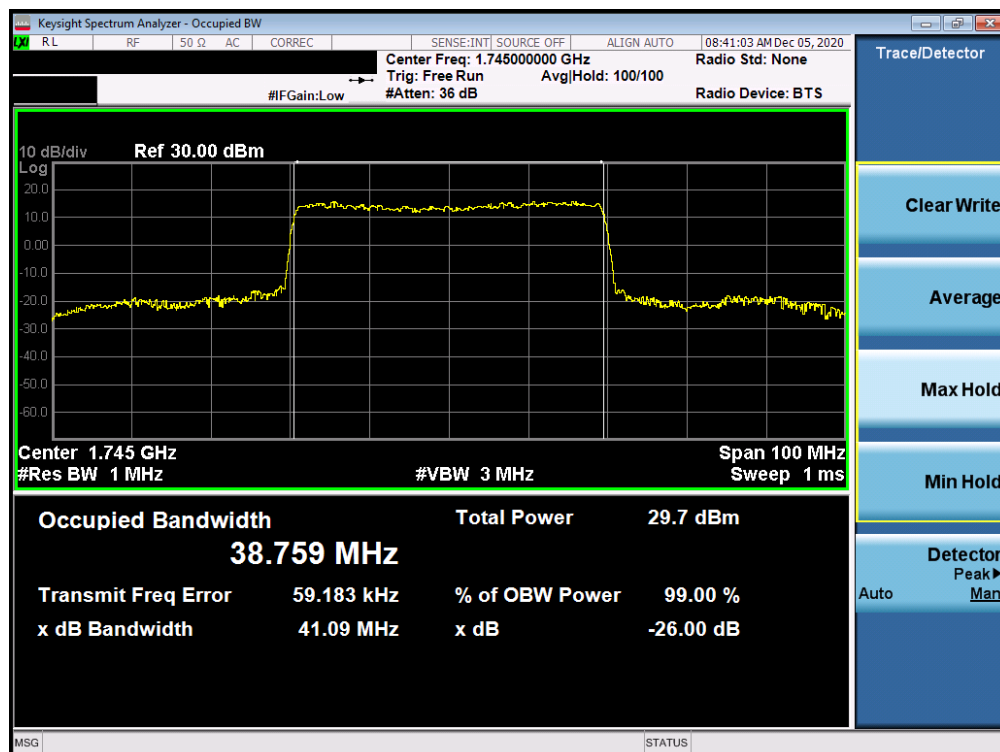
Plot 7-130. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 78 of 297

NR Band n66 – Antenna E



Plot 7-131. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB)

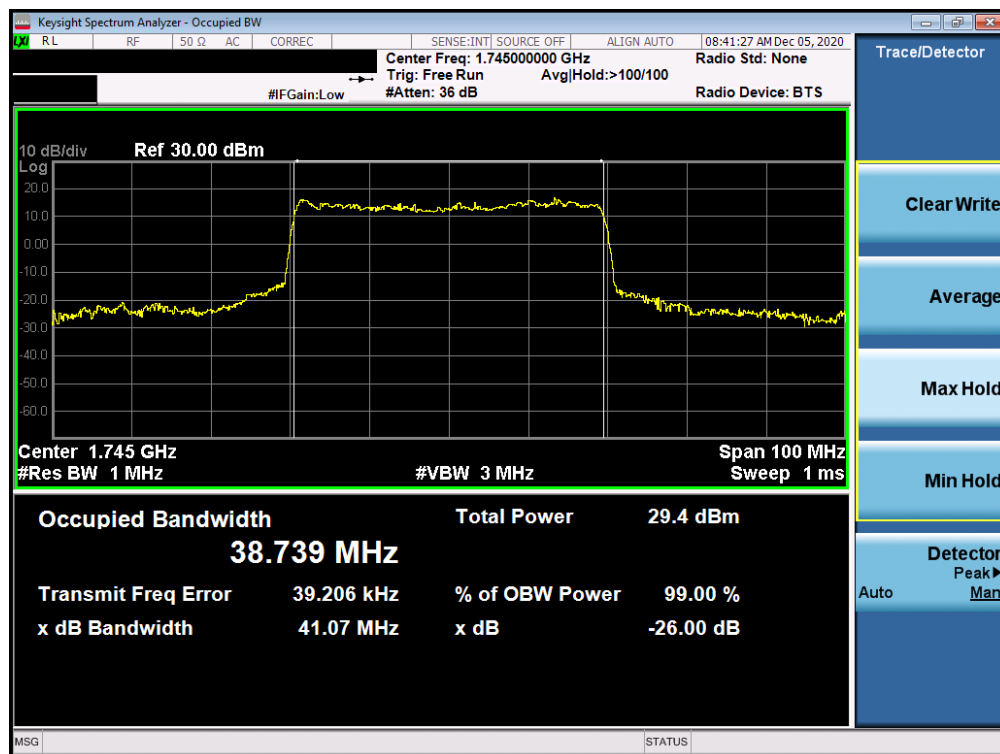


Plot 7-132. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 79 of 297



Plot 7-133. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB)

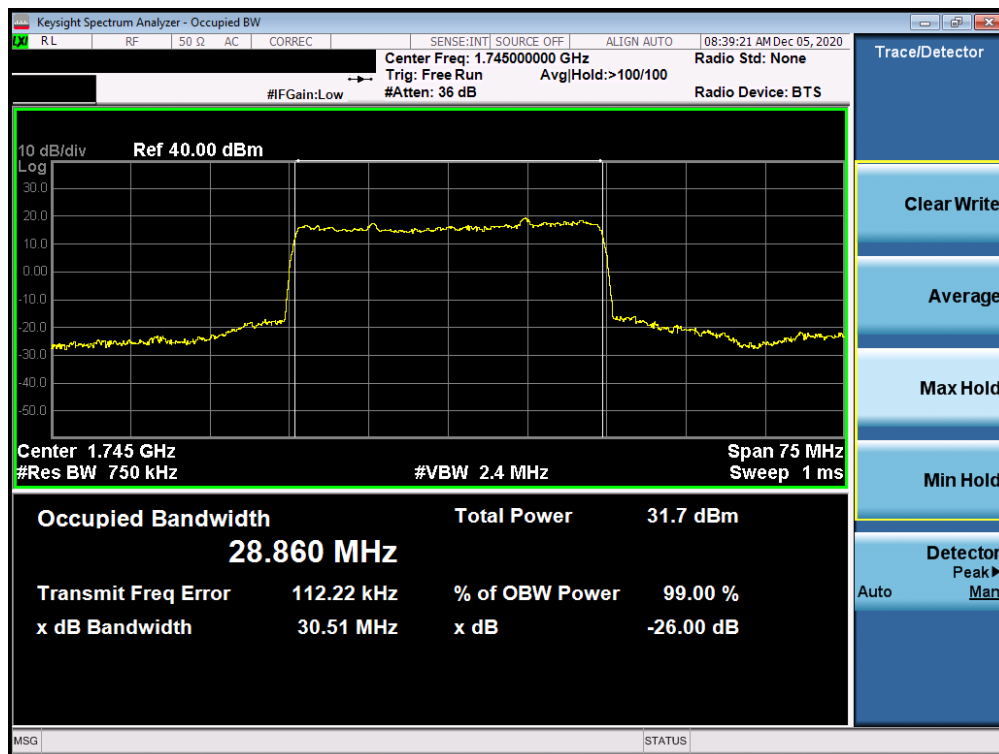


Plot 7-134. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 80 of 297

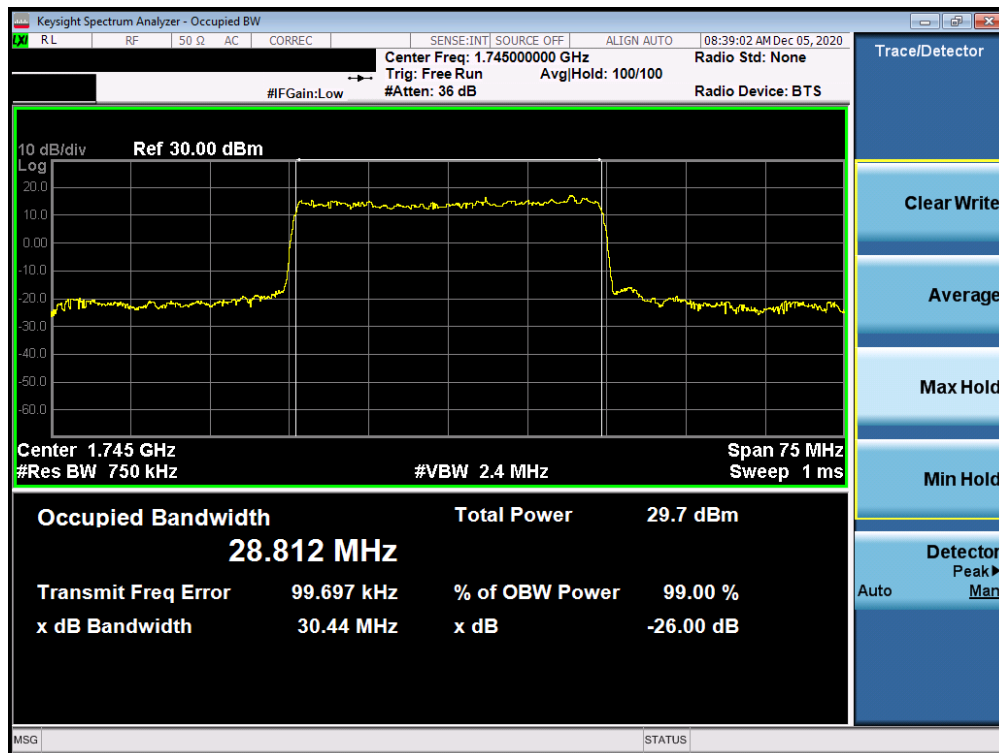


Plot 7-135. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 256QAM - Full RB)

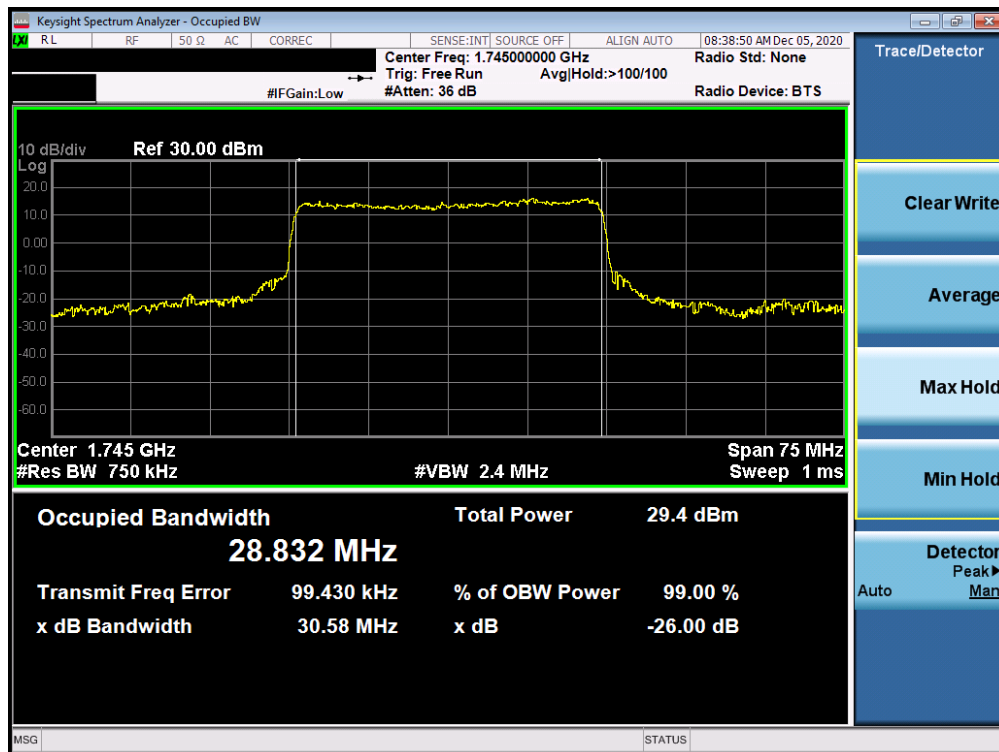


Plot 7-136. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 81 of 297



Plot 7-137. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB)

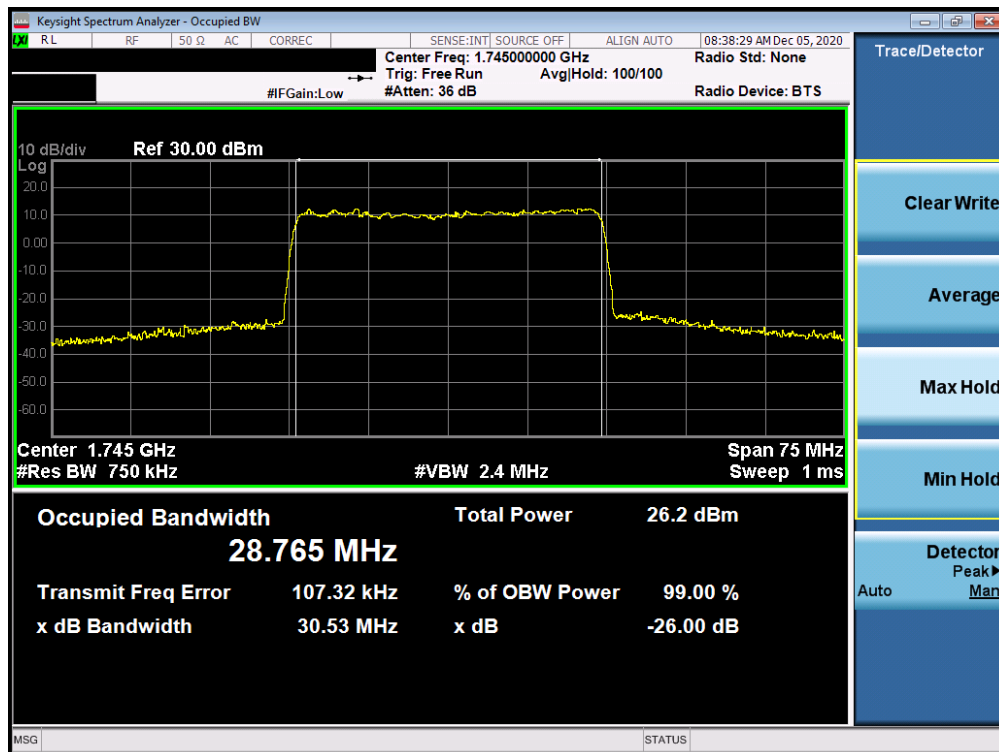


Plot 7-138. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 82 of 297

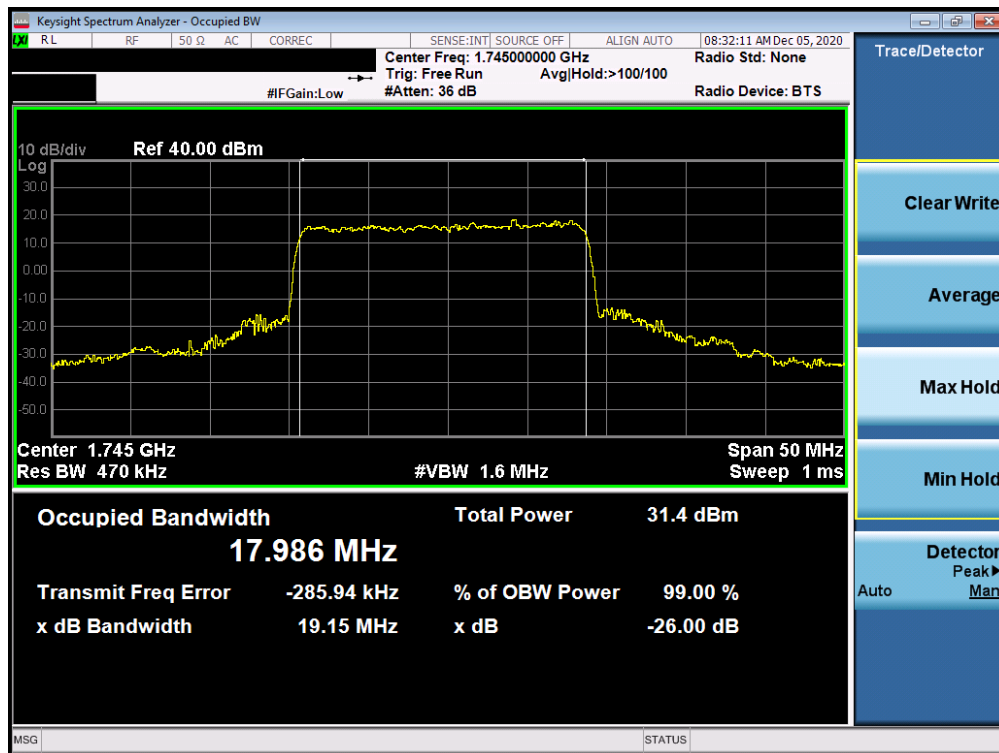


Plot 7-139. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 64QAM - Full RB)



Plot 7-140. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 83 of 297

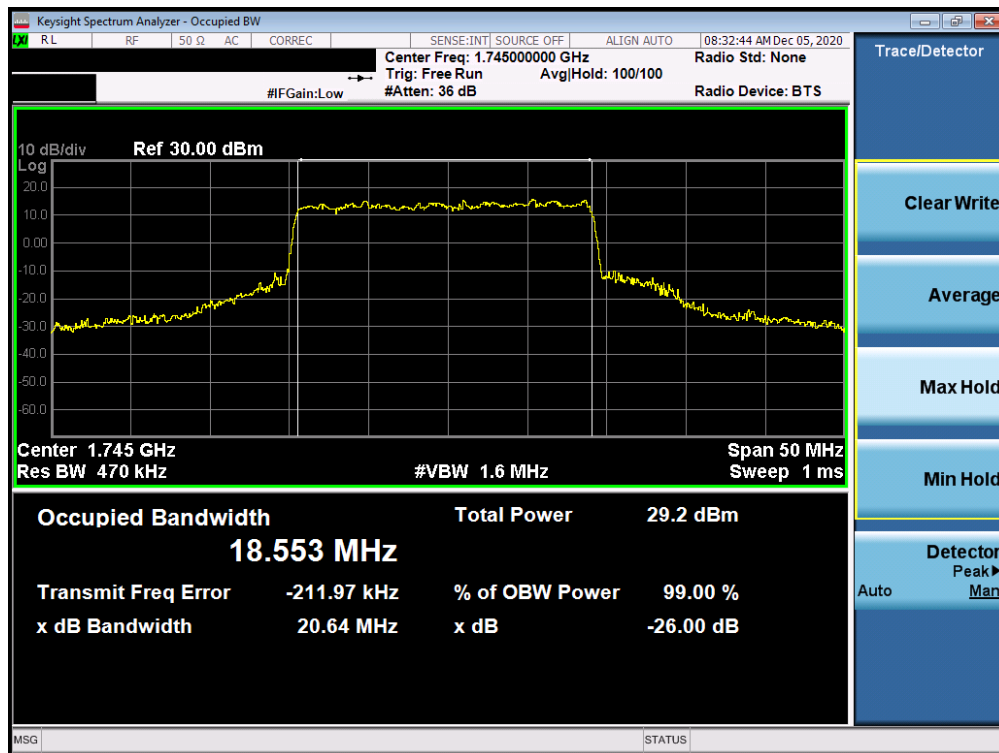


Plot 7-141. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-142. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 84 of 297



Plot 7-143. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB)

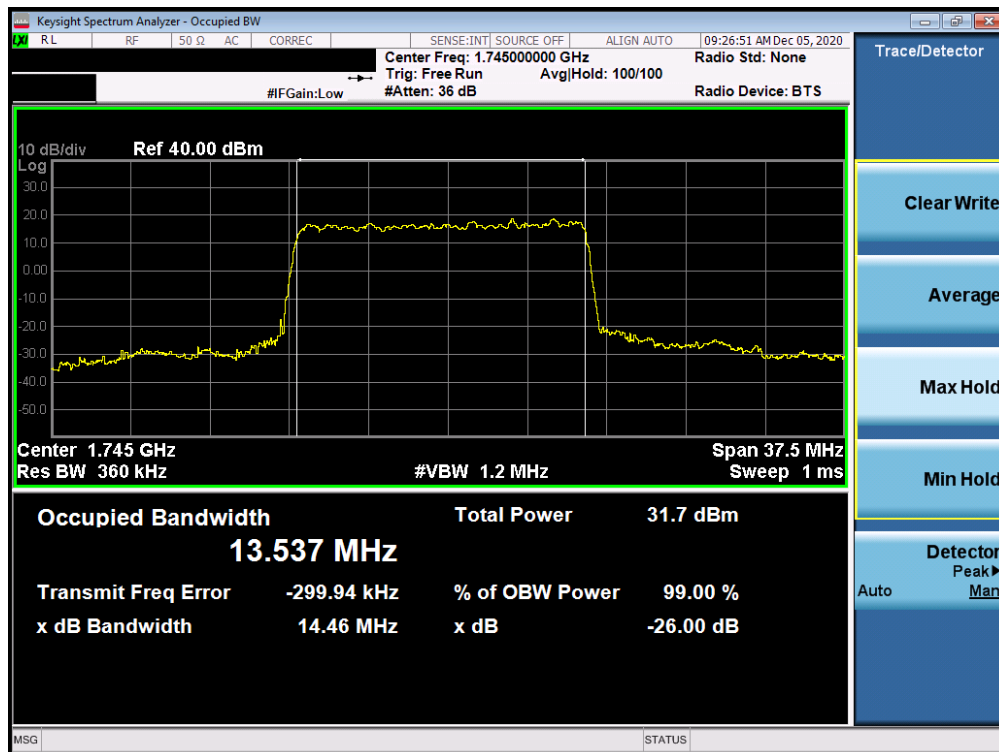


Plot 7-144. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 85 of 297

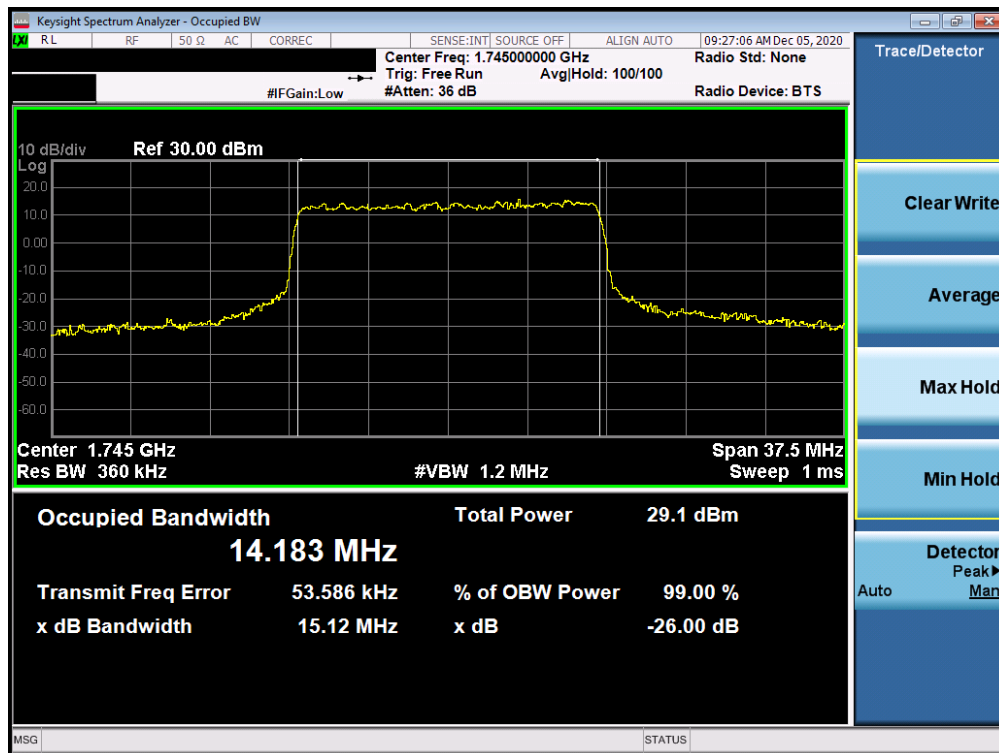


Plot 7-145. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 256QAM - Full RB)



Plot 7-146. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 86 of 297

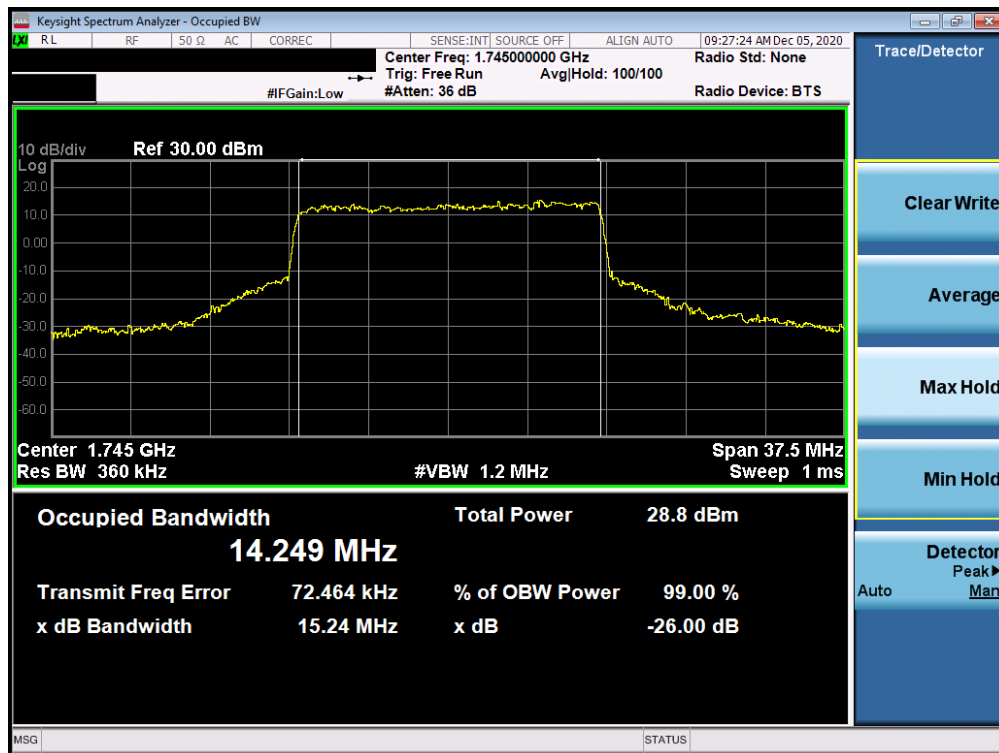


Plot 7-147. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB)

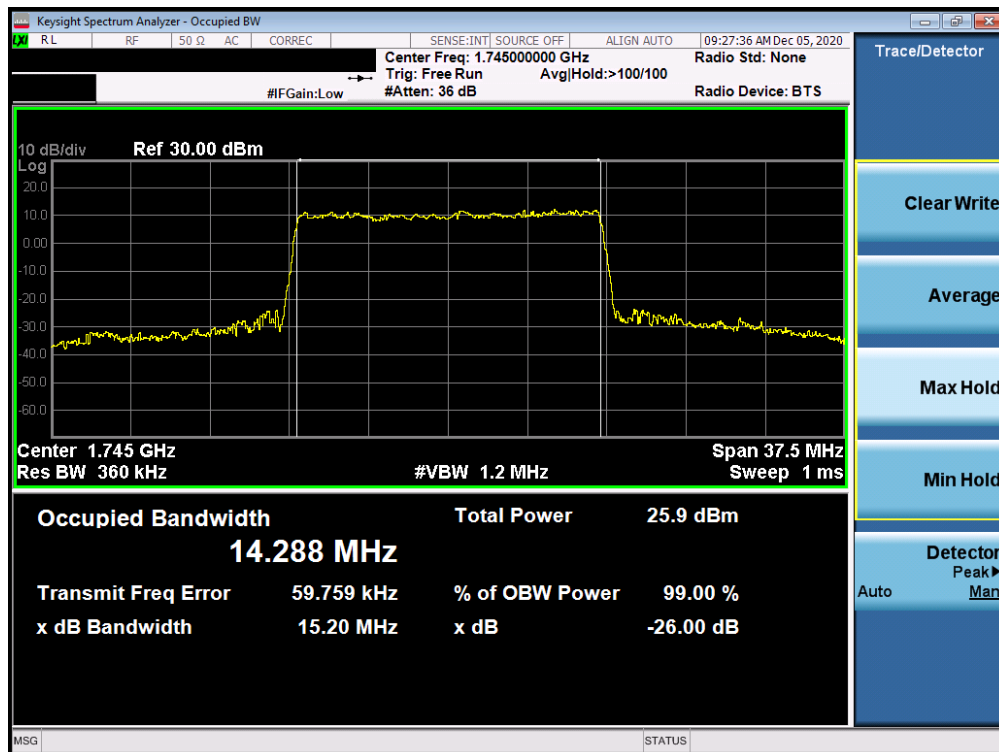


Plot 7-148. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 87 of 297

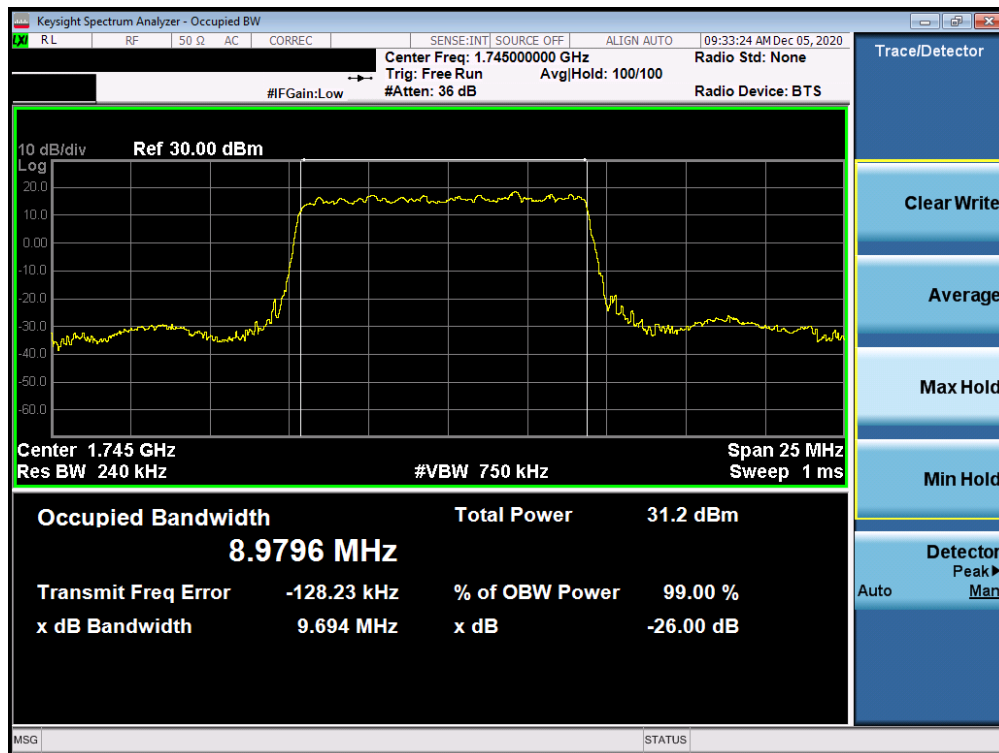


Plot 7-149. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 64QAM - Full RB)

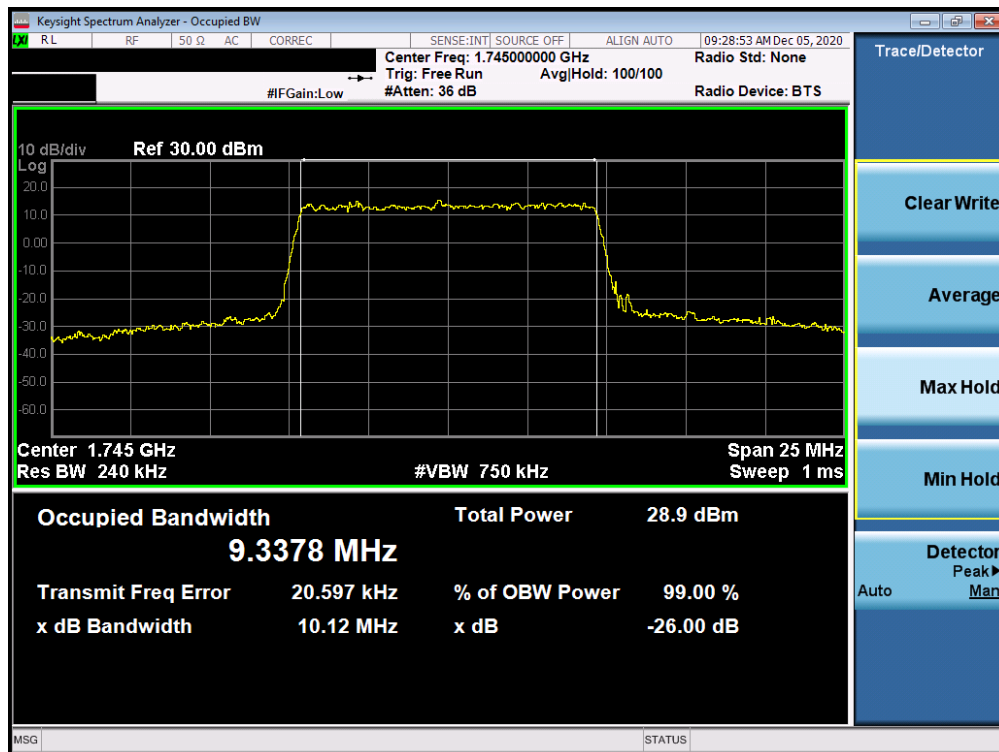


Plot 7-150. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 88 of 297



Plot 7-151. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

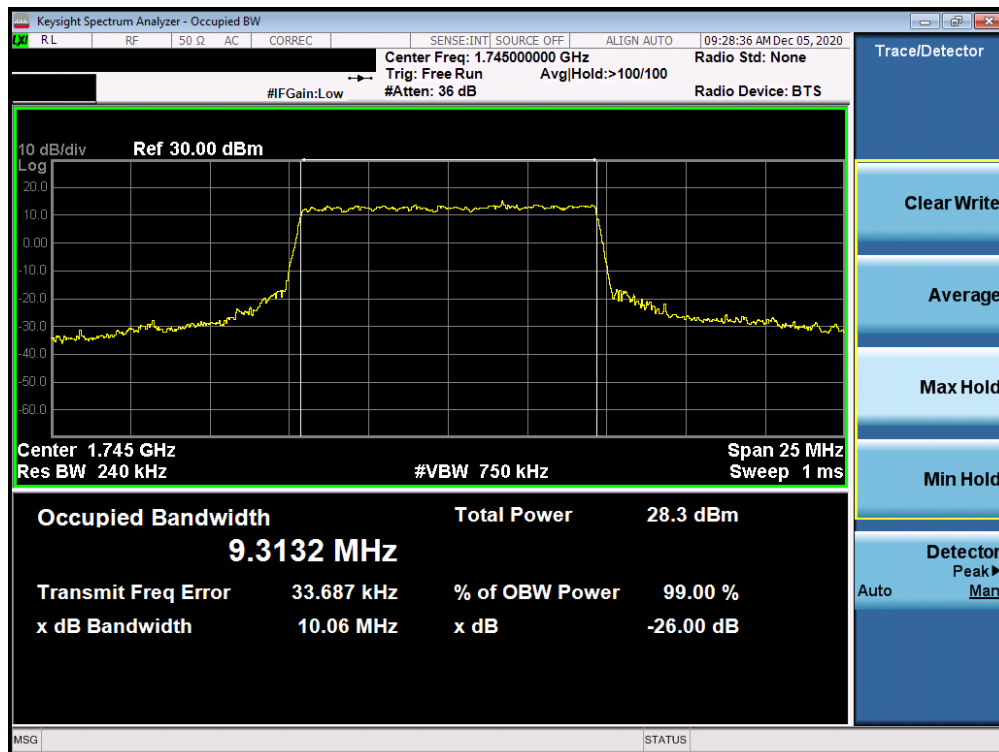


Plot 7-152. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 89 of 297

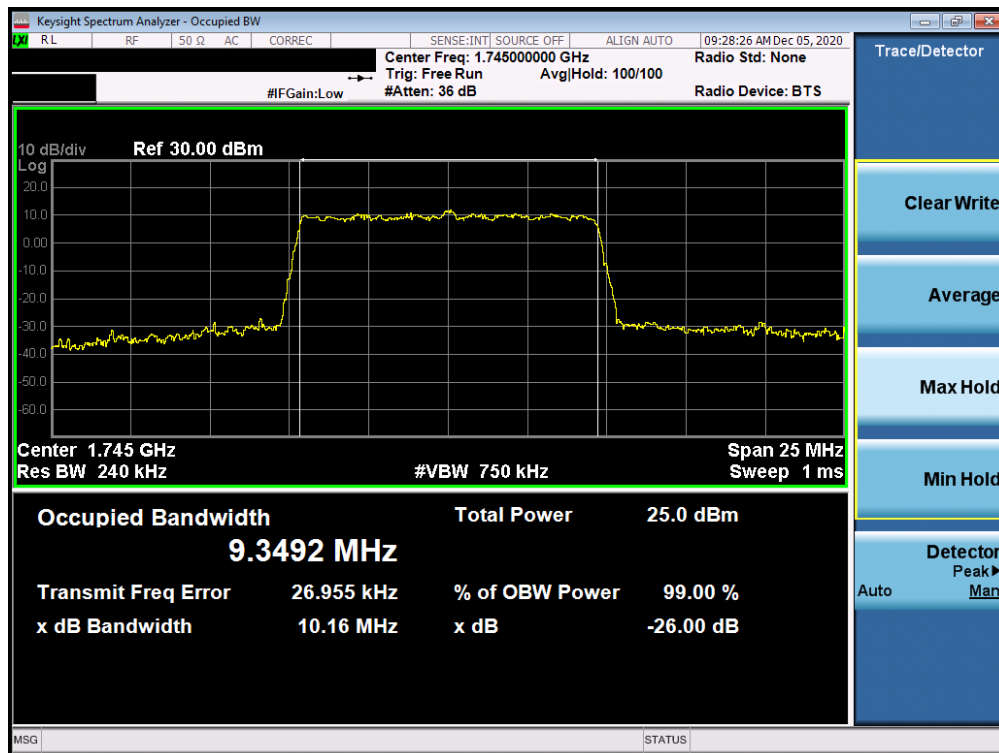


Plot 7-153. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB)

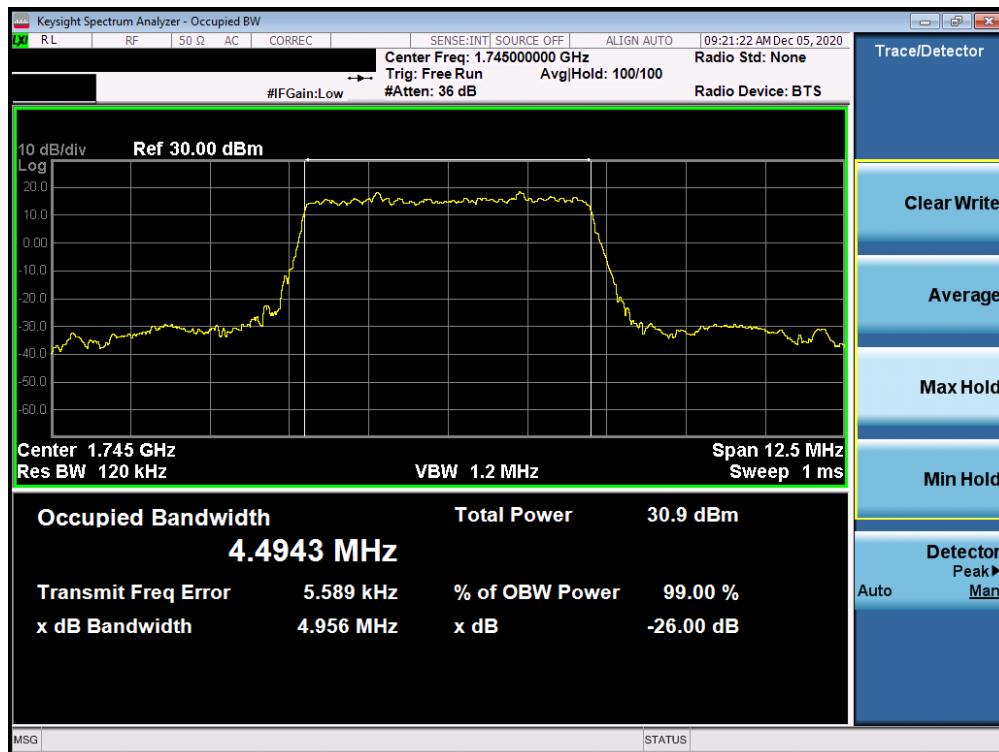


Plot 7-154. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 64QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 90 of 297

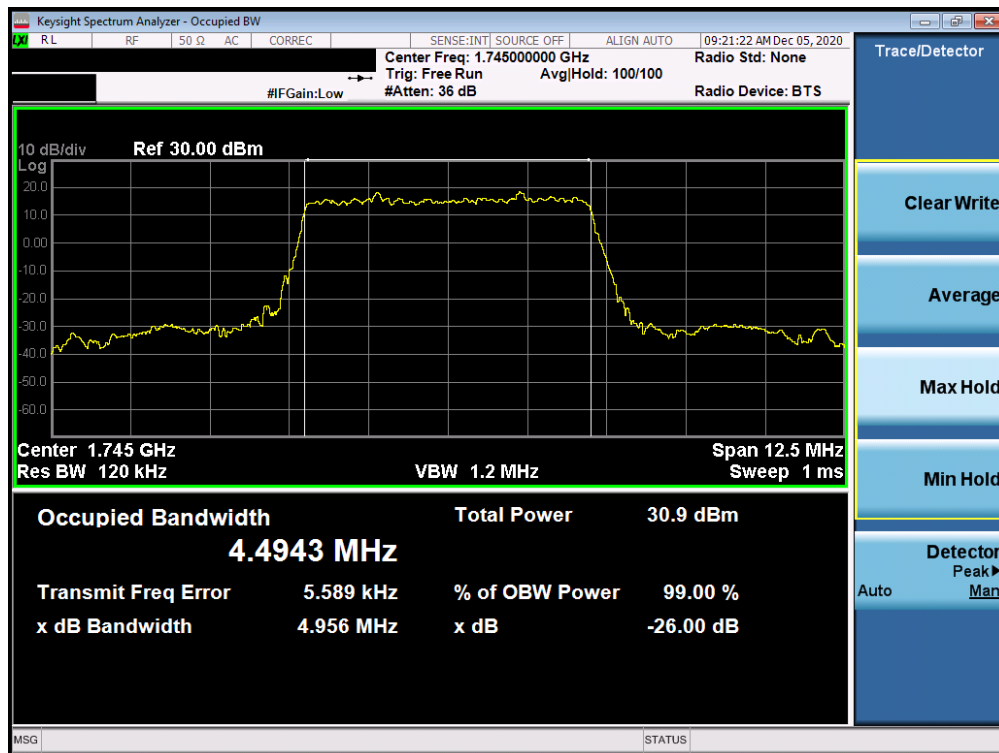


Plot 7-155. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 256QAM - Full RB)

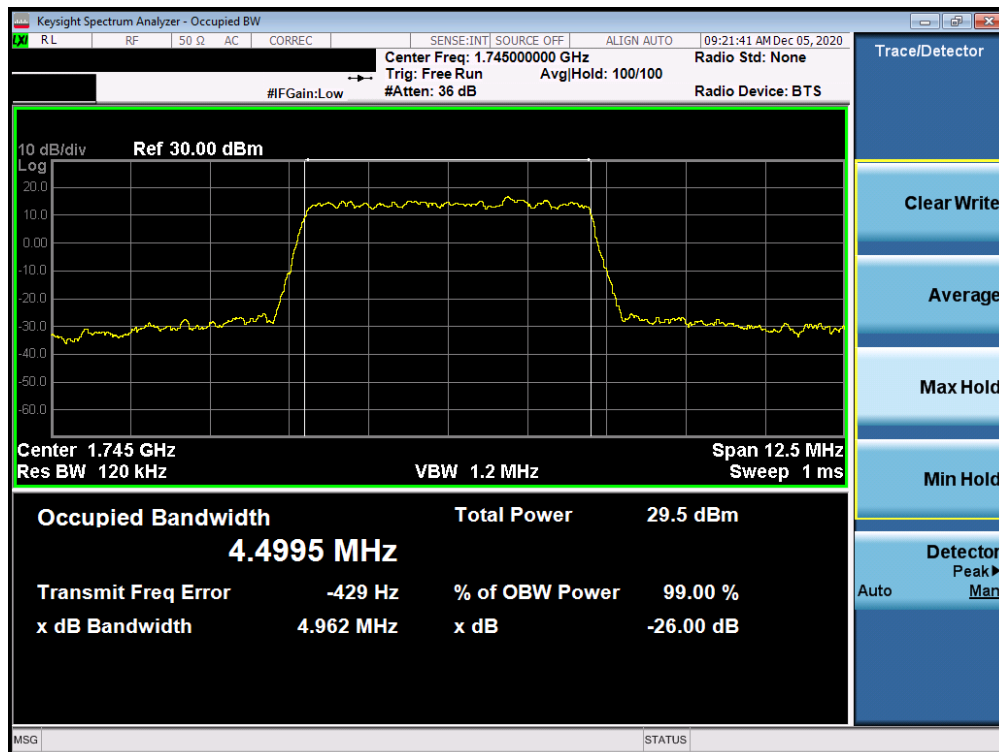


Plot 7-156. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 91 of 297

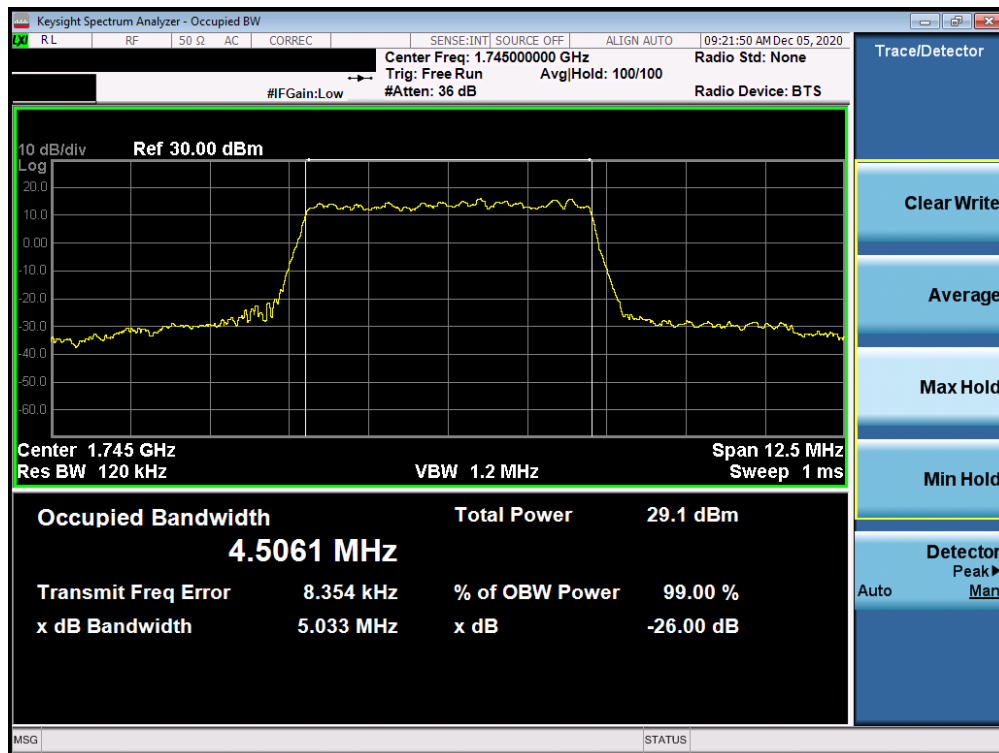


Plot 7-157. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB)

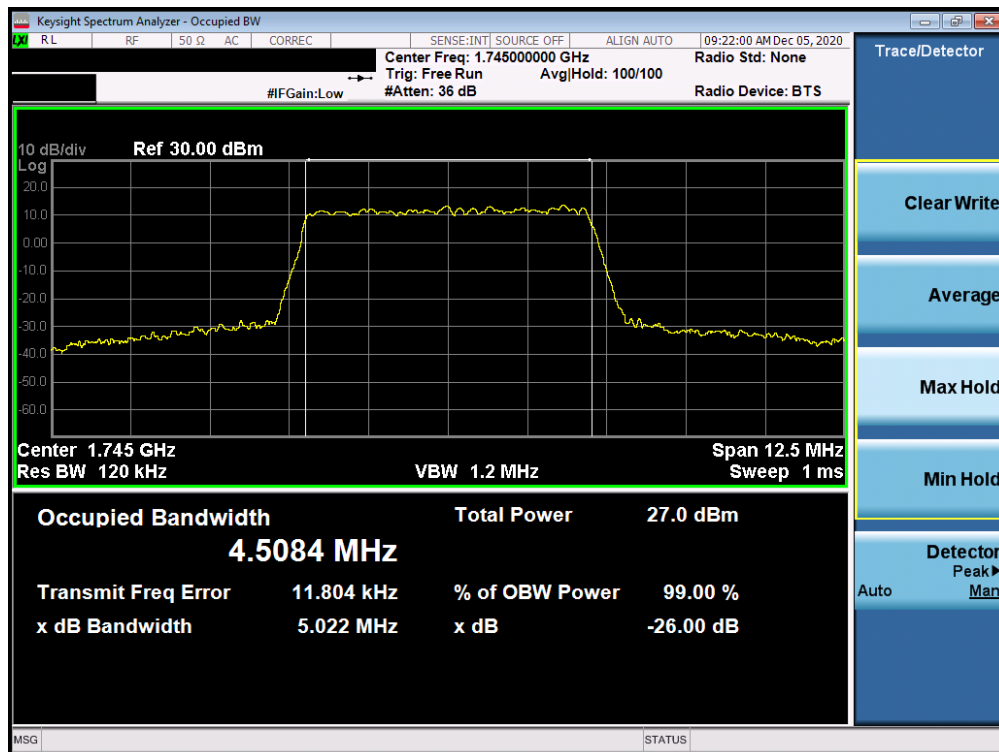


Plot 7-158. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 92 of 297



Plot 7-159. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 64QAM - Full RB)



Plot 7-160. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 256QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 93 of 297

7.3 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.

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 $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

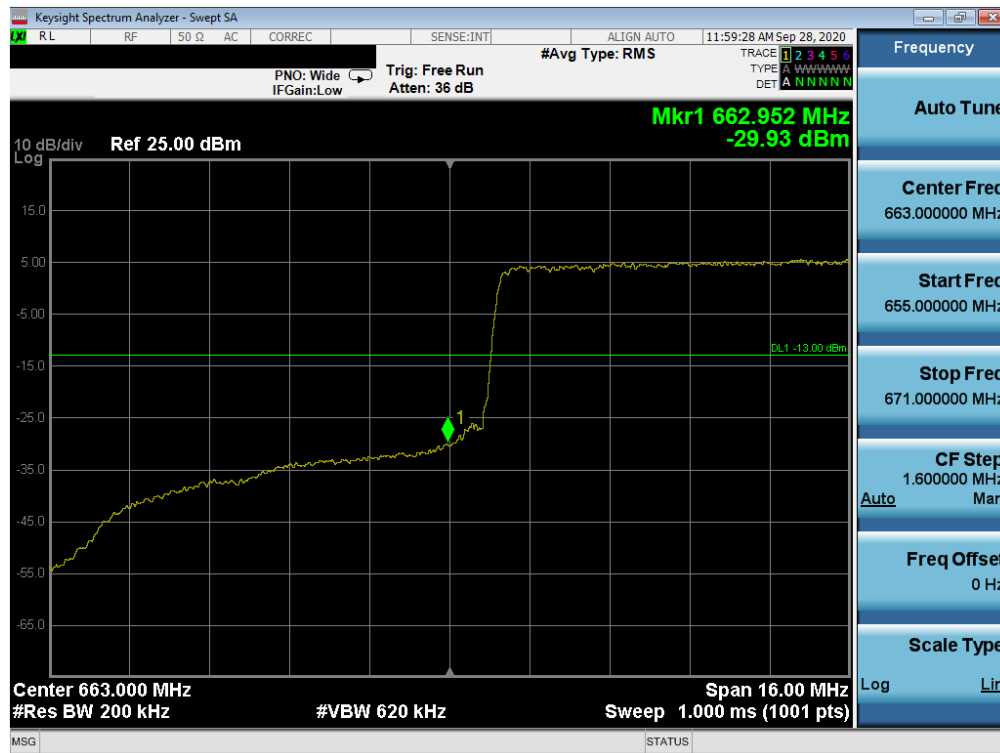
The EUT and measurement equipment were set up as shown in the diagram below.



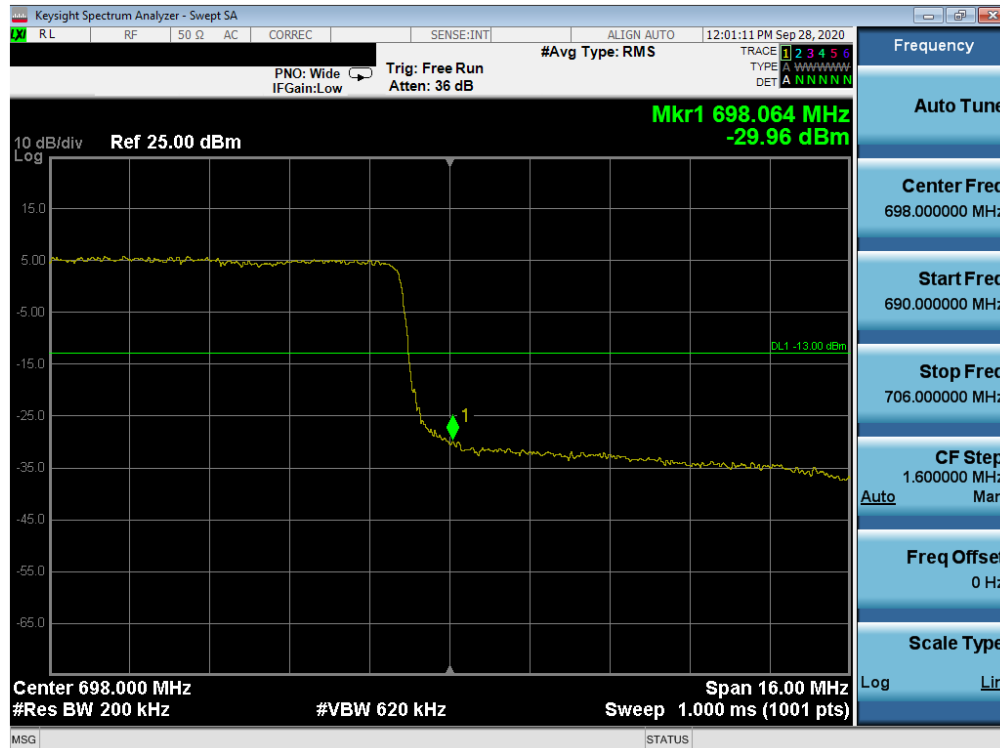
Figure 7-2. Test Instrument & Measurement Setup

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 94 of 297

LTE Band 71

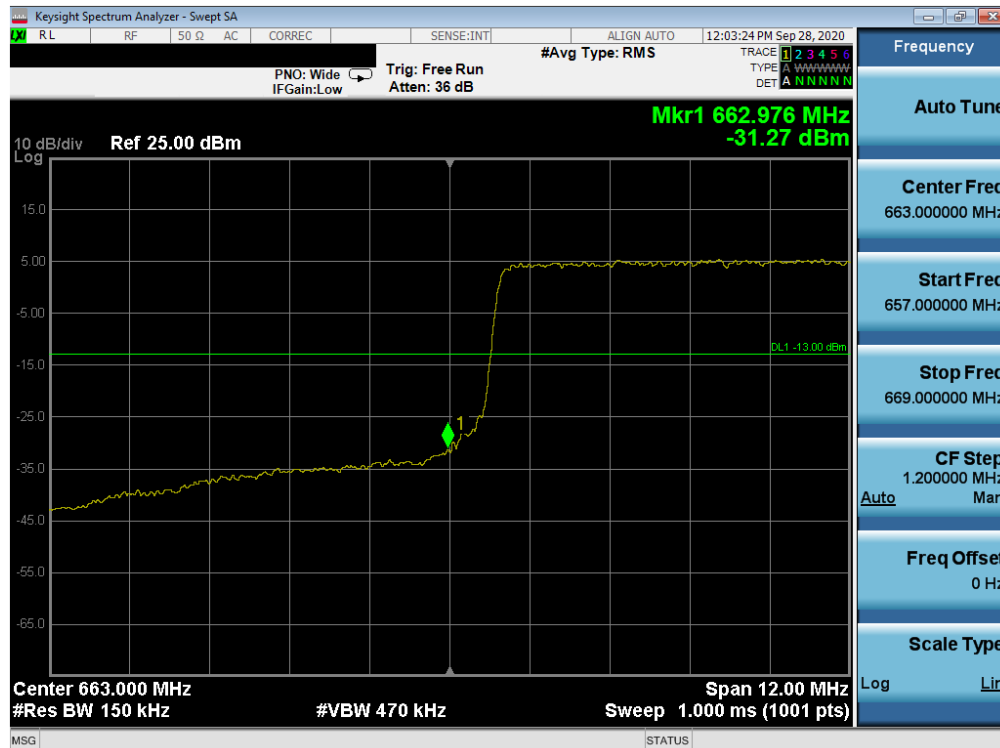


Plot 7-161. Lower Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

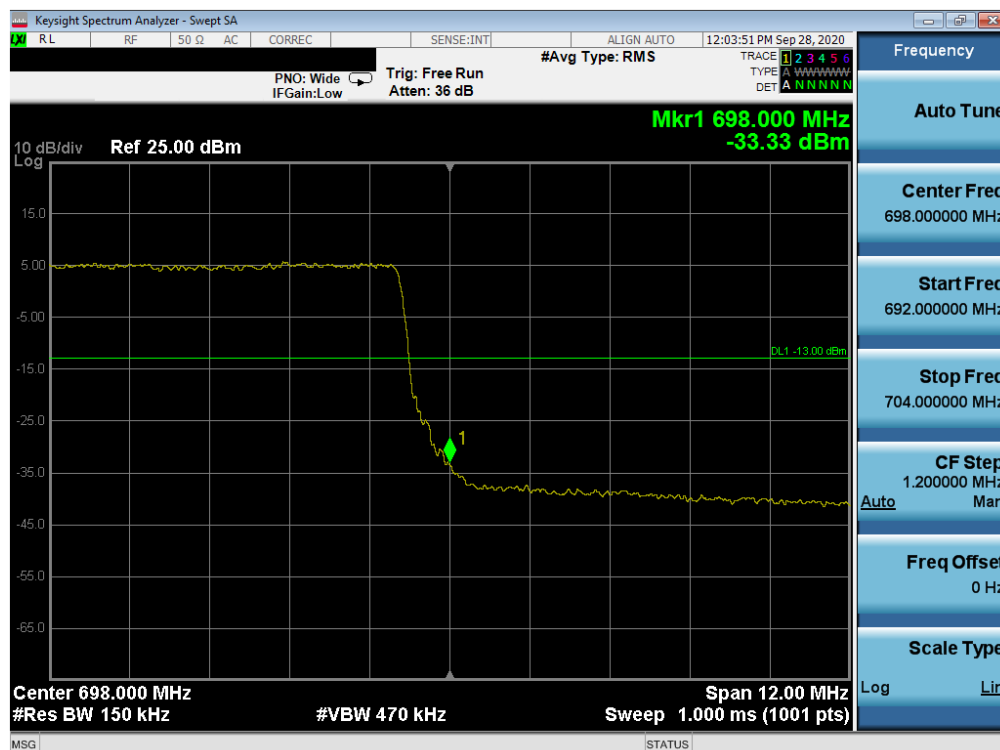


Plot 7-162. Upper Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 95 of 297

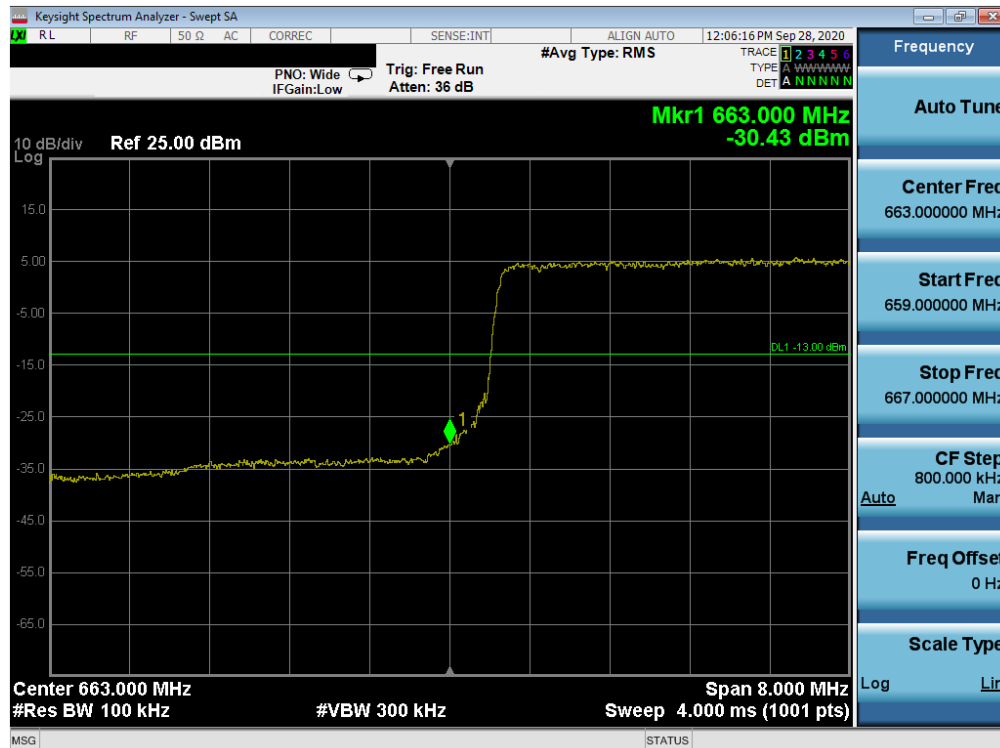


Plot 7-163. Lower Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)

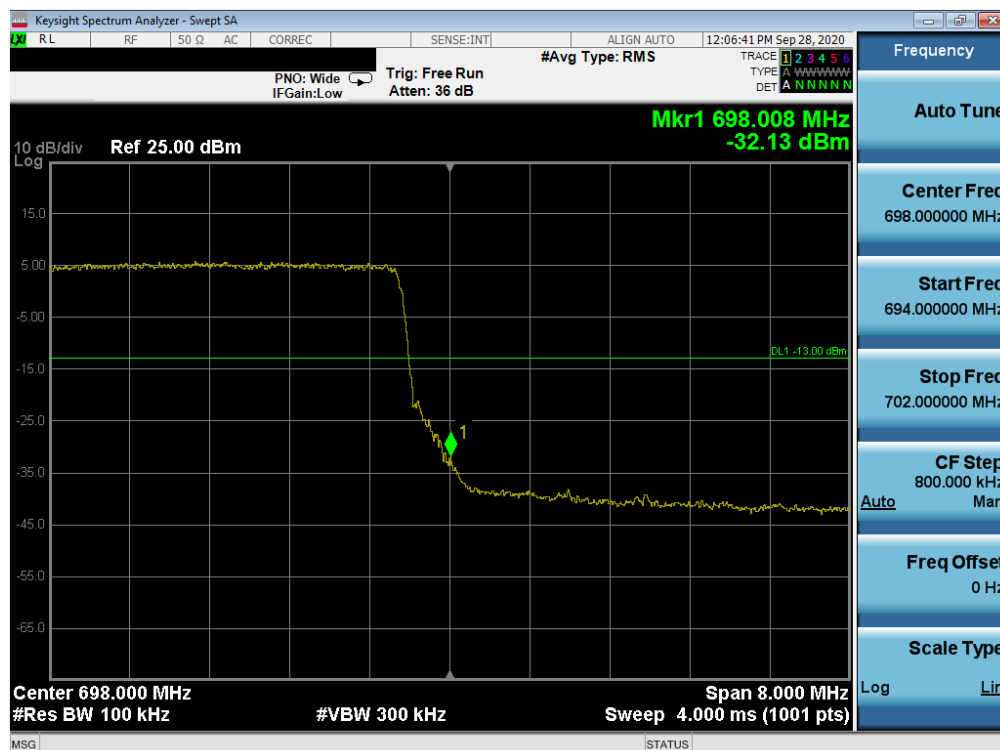


Plot 7-164. Upper Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 96 of 297

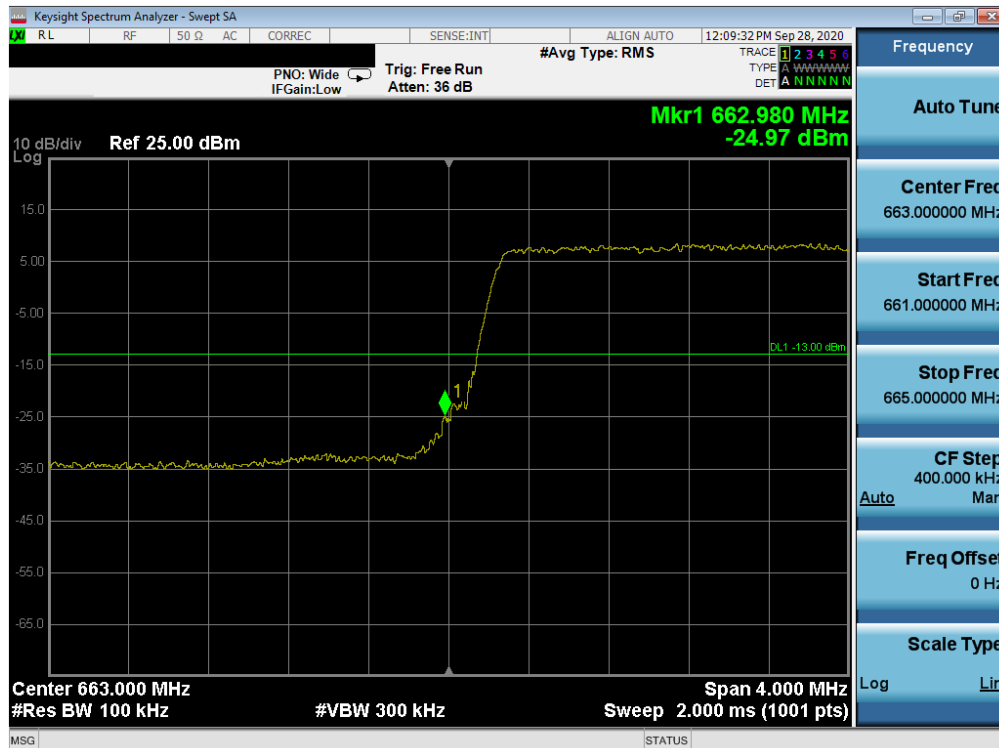


Plot 7-165. Lower Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)



Plot 7-166. Upper Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Plot 7-167. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)



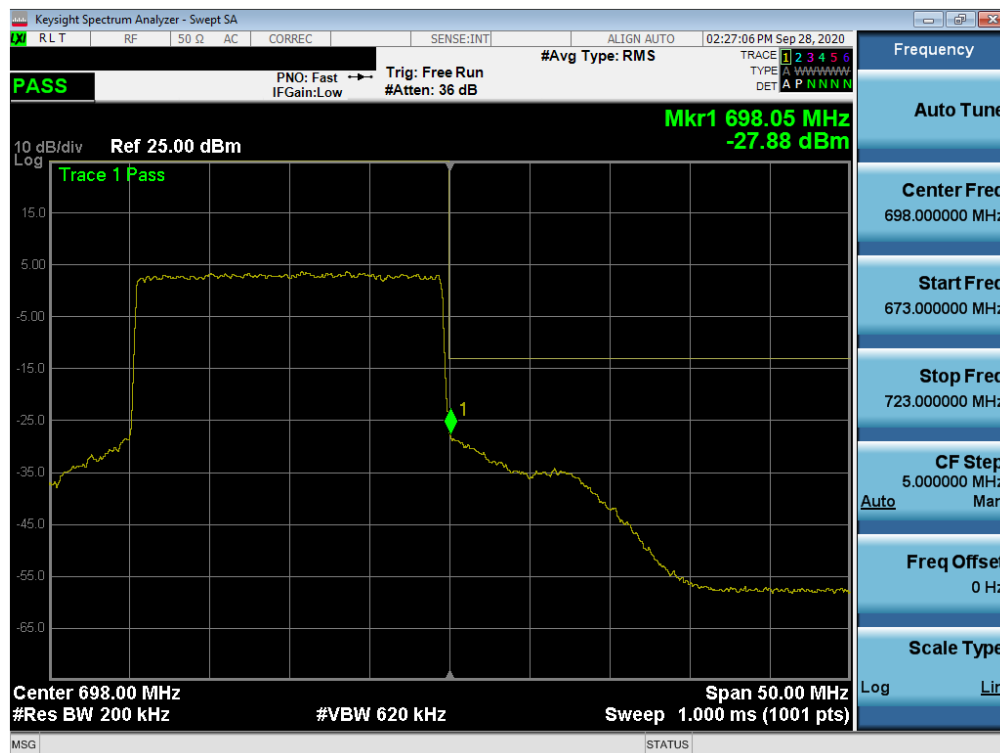
Plot 7-168. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 98 of 297

NR Band n71

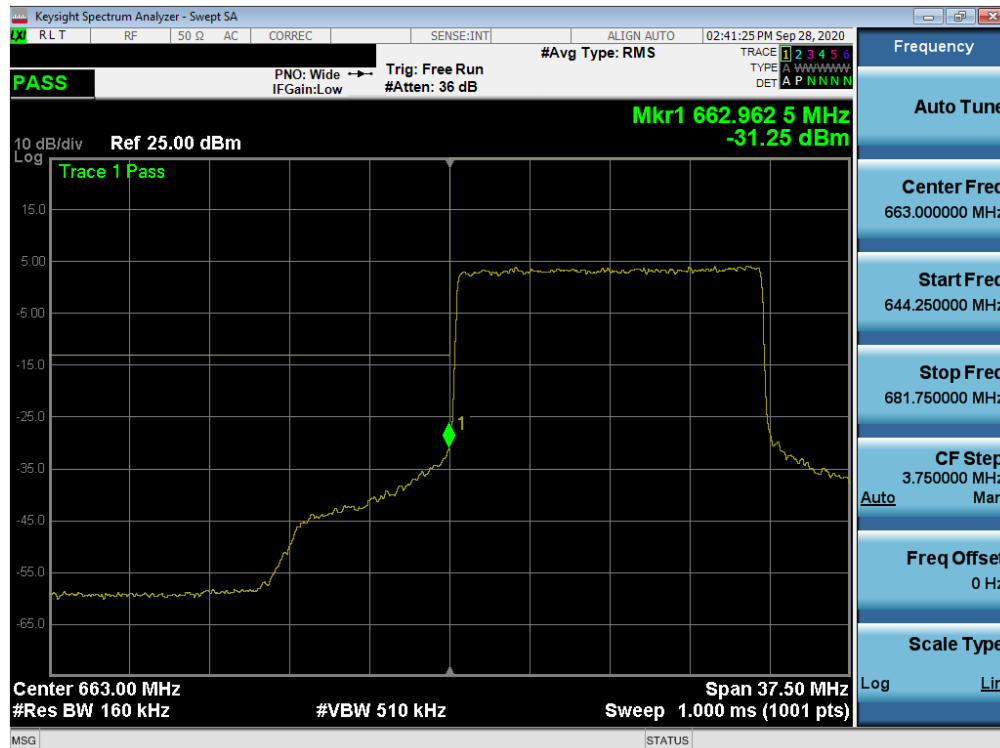


Plot 7-169. Lower Band Edge Plot (NR Band n71 – 20.0MHz - Full RB)



Plot 7-170. Upper Band Edge Plot (NR Band n71 – 20.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 99 of 297

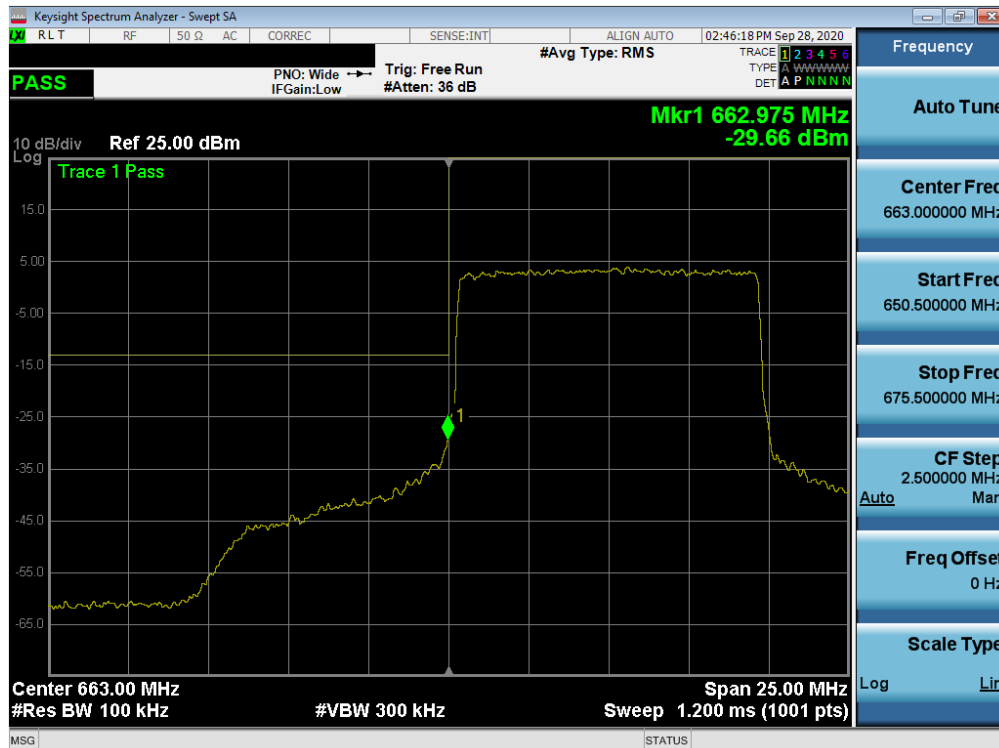


Plot 7-171. Lower Band Edge Plot (NR Band n71 - 15.0MHz - Full RB)



Plot 7-172. Upper Band Edge Plot (NR Band n71 - 15.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 100 of 297

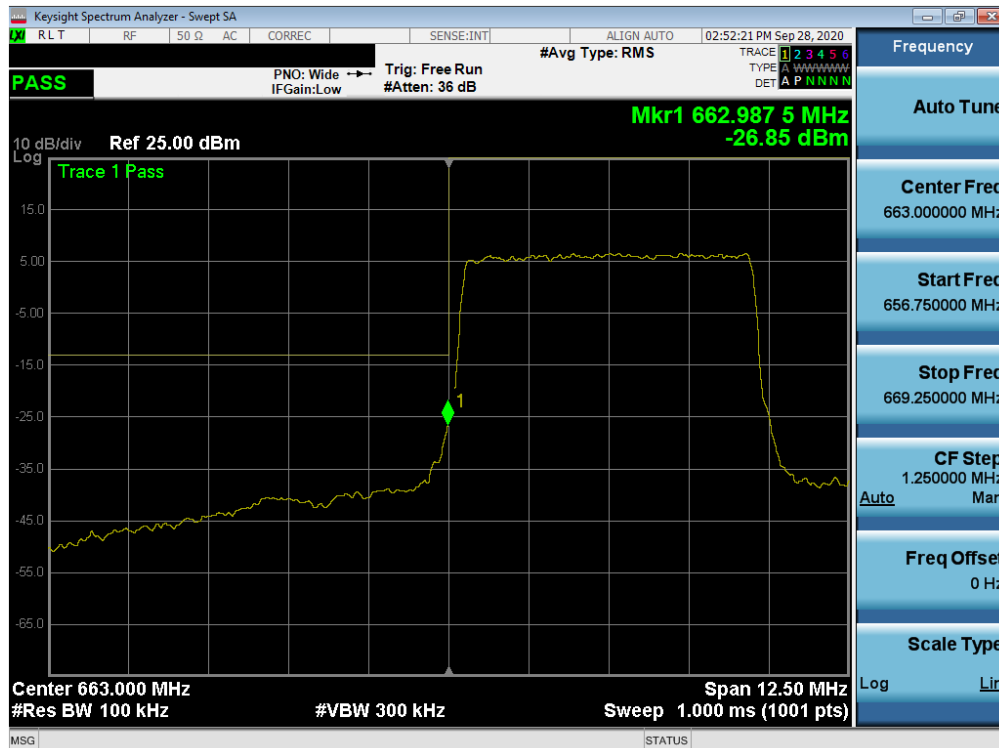


Plot 7-173. Lower Band Edge Plot (NR Band n71 - 10.0MHz - Full RB)

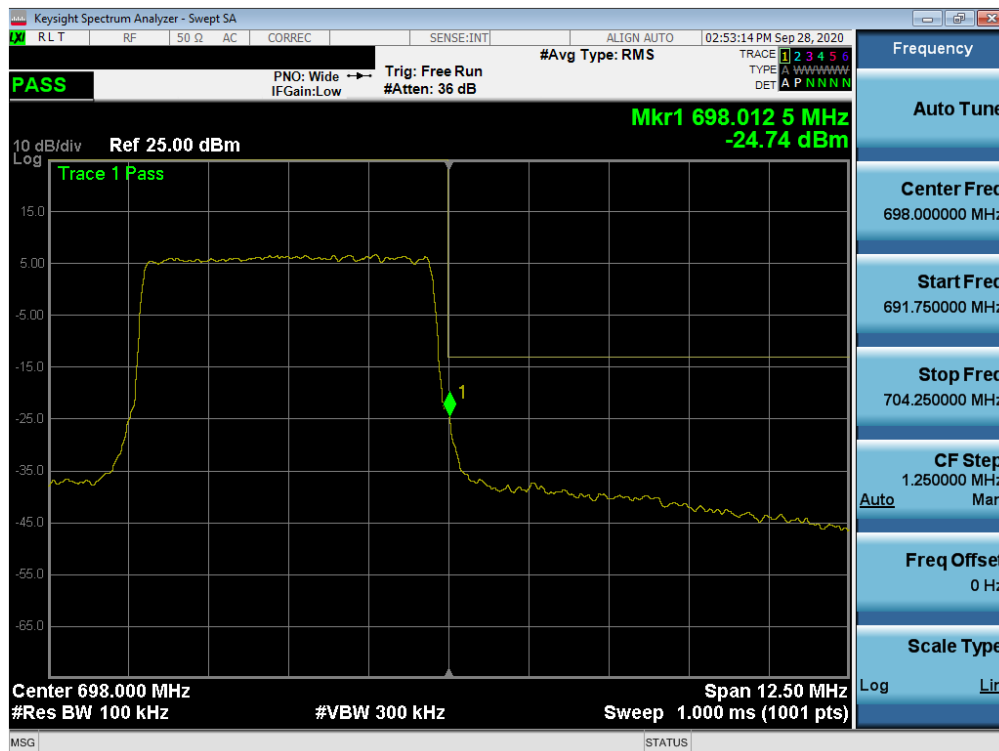


Plot 7-174. Upper Band Edge Plot (NR Band n71 - 10.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 101 of 297



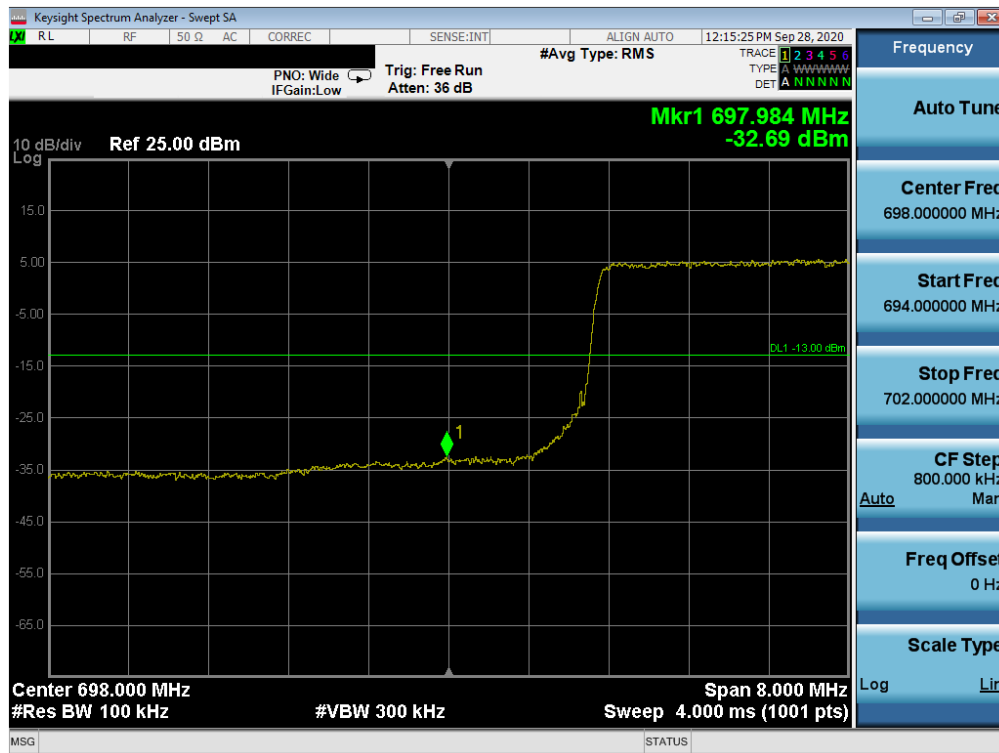
Plot 7-175. Lower Band Edge Plot (NR Band n71 - 5.0MHz - Full RB)



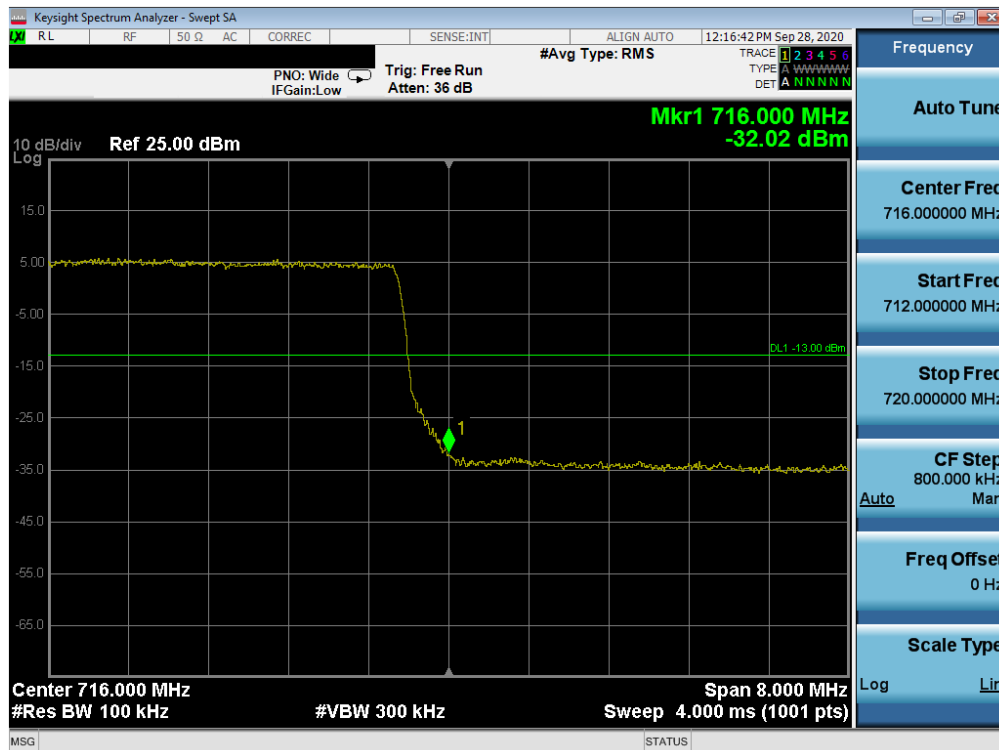
Plot 7-176. Upper Band Edge Plot (NR Band n71 - 5.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 102 of 297

LTE Band 12

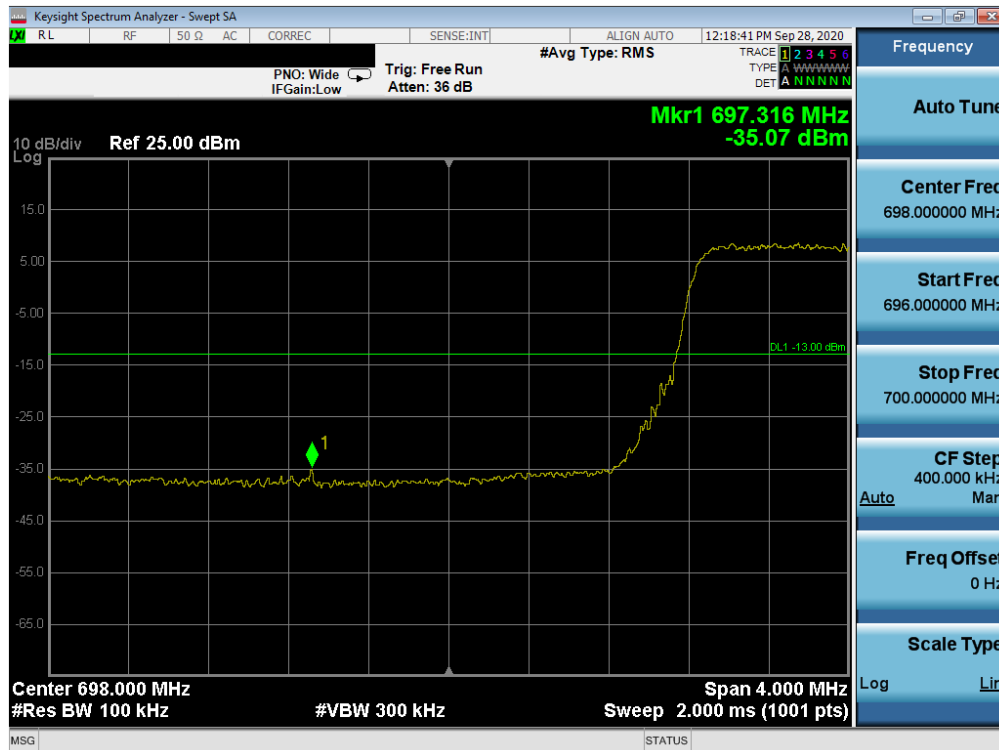


Plot 7-177. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration)

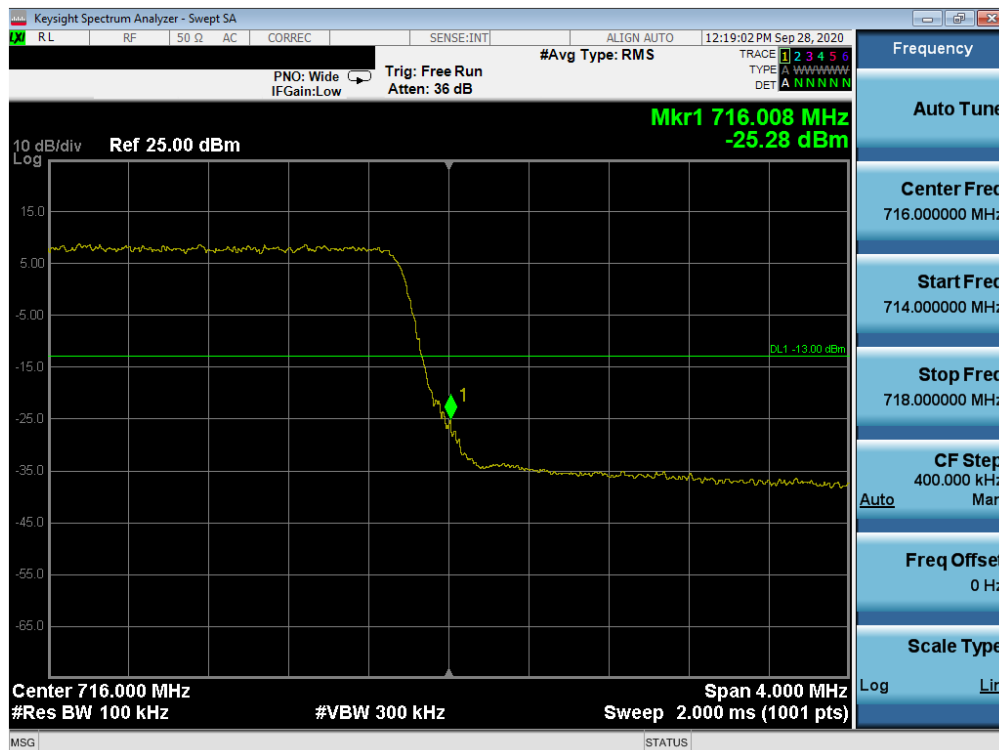


Plot 7-178. Upper Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 103 of 297

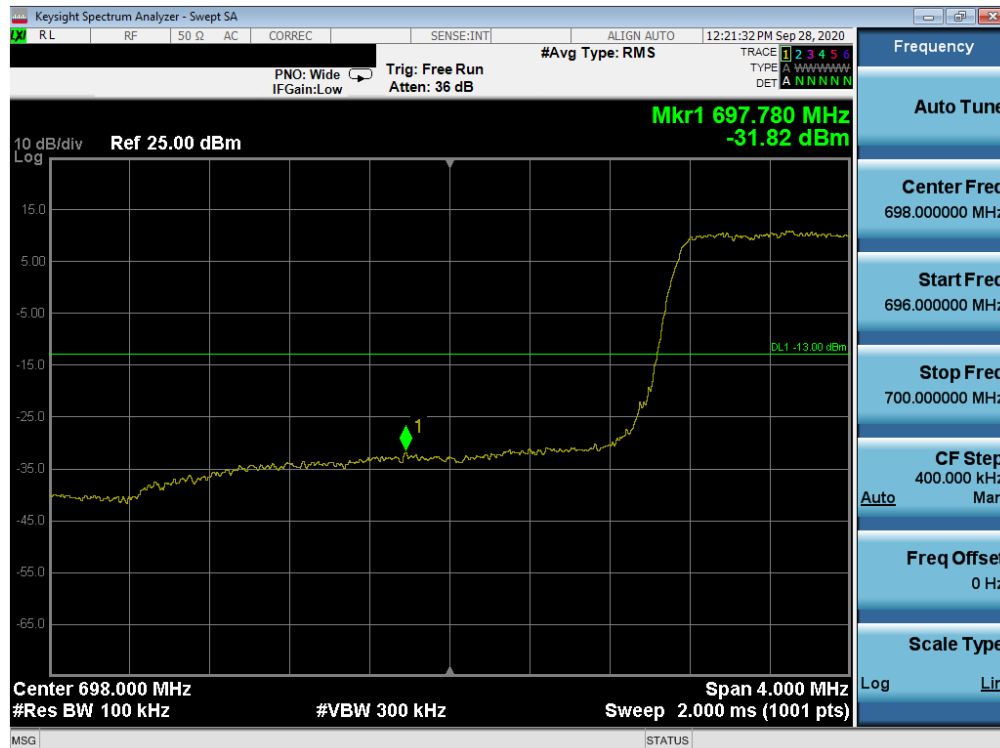


Plot 7-179. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration)

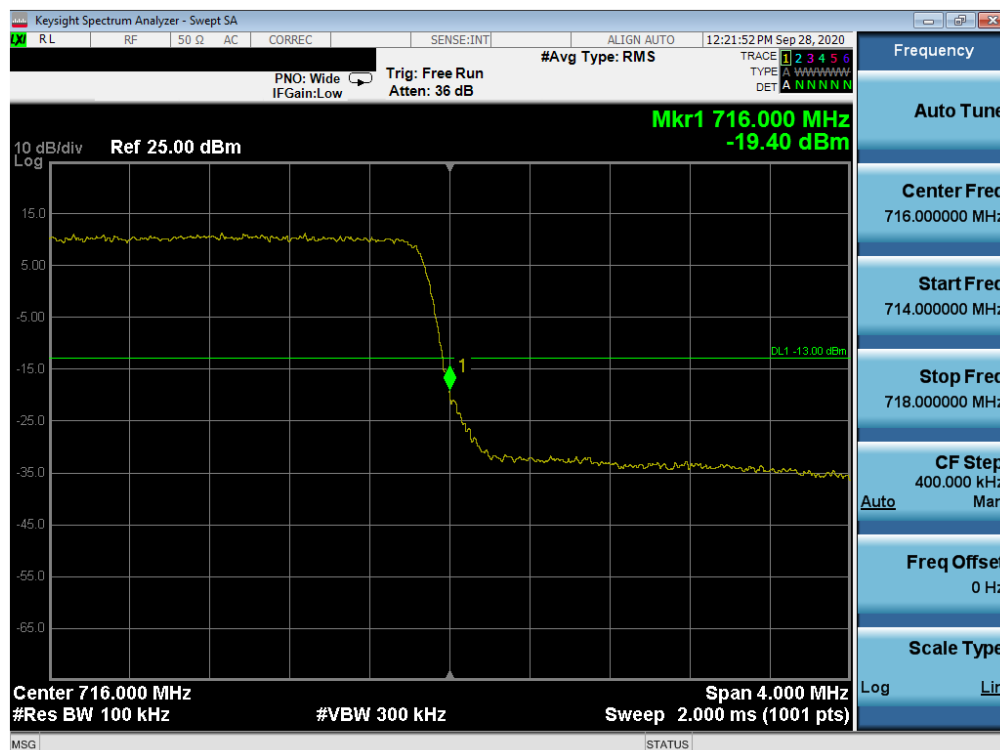


Plot 7-180. Upper Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 104 of 297

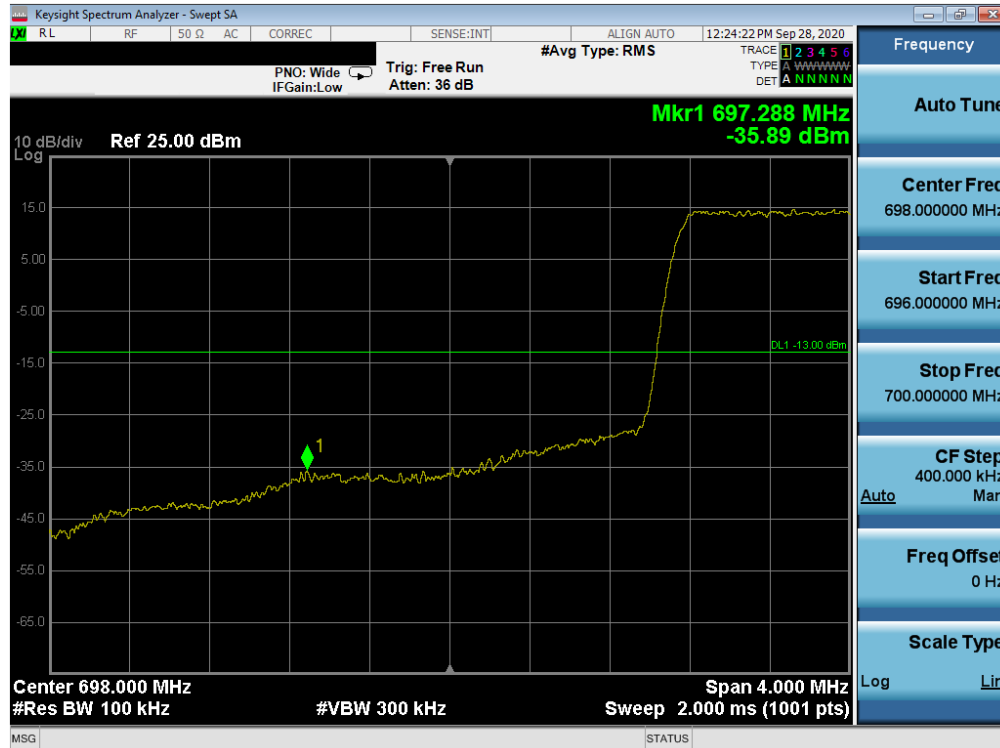


Plot 7-181. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB Configuration)

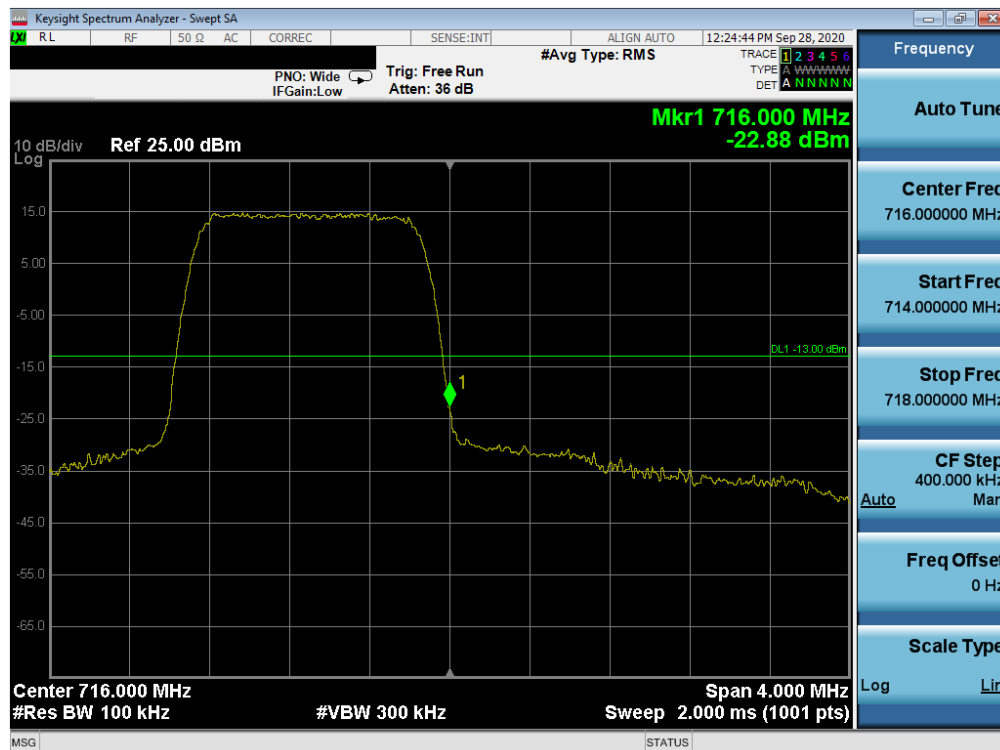


Plot 7-182. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Plot 7-183. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB Configuration)



Plot 7-184. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 106 of 297

NR Band n12

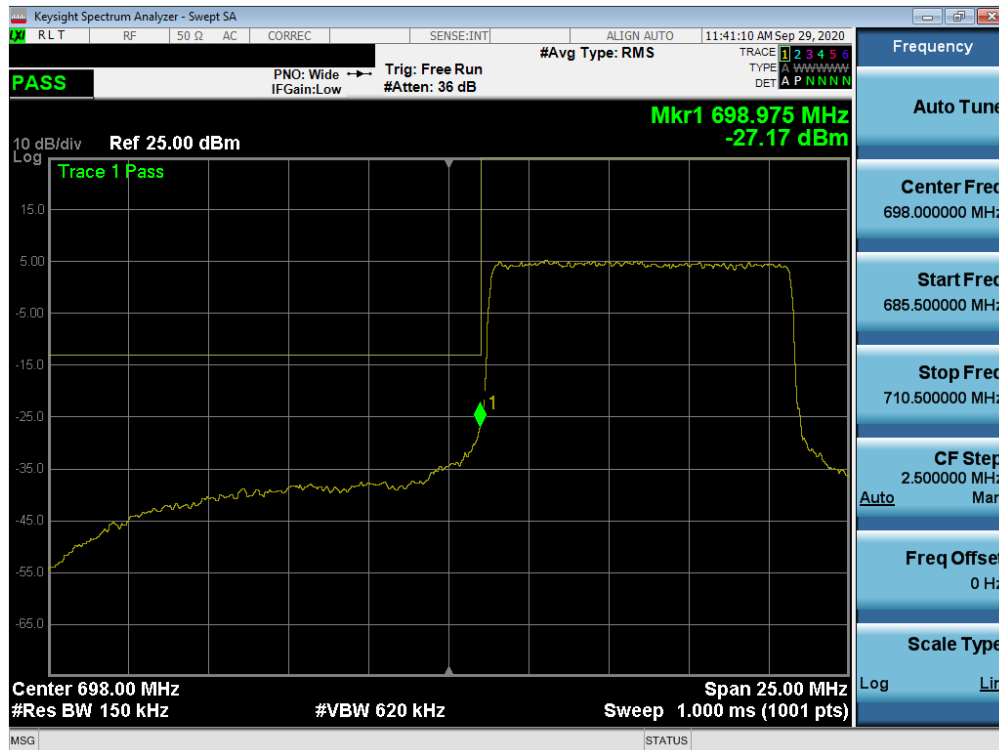


Plot 7-185. Lower Band Edge Plot (NR Band n12 – 15.0MHz - Full RB)



Plot 7-186. Upper Band Edge Plot (NR Band n12 – 15.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 107 of 297

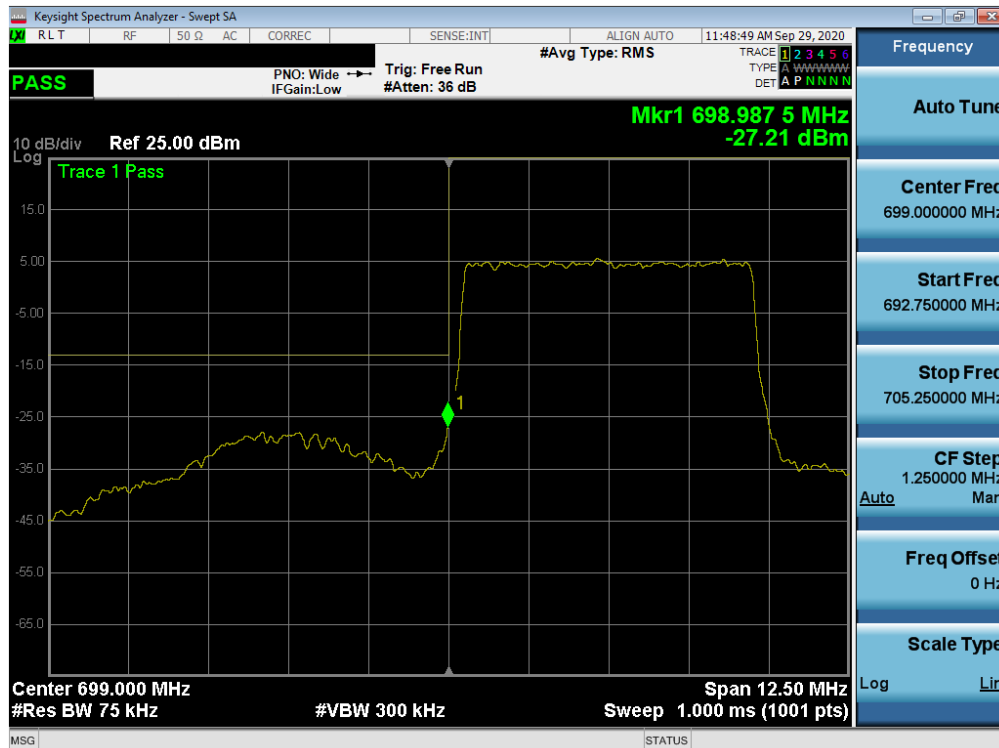


Plot 7-187. Lower Band Edge Plot (NR Band n12 - 10.0MHz - Full RB)



Plot 7-188. Upper Band Edge Plot (NR Band n12 - 10.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 108 of 297



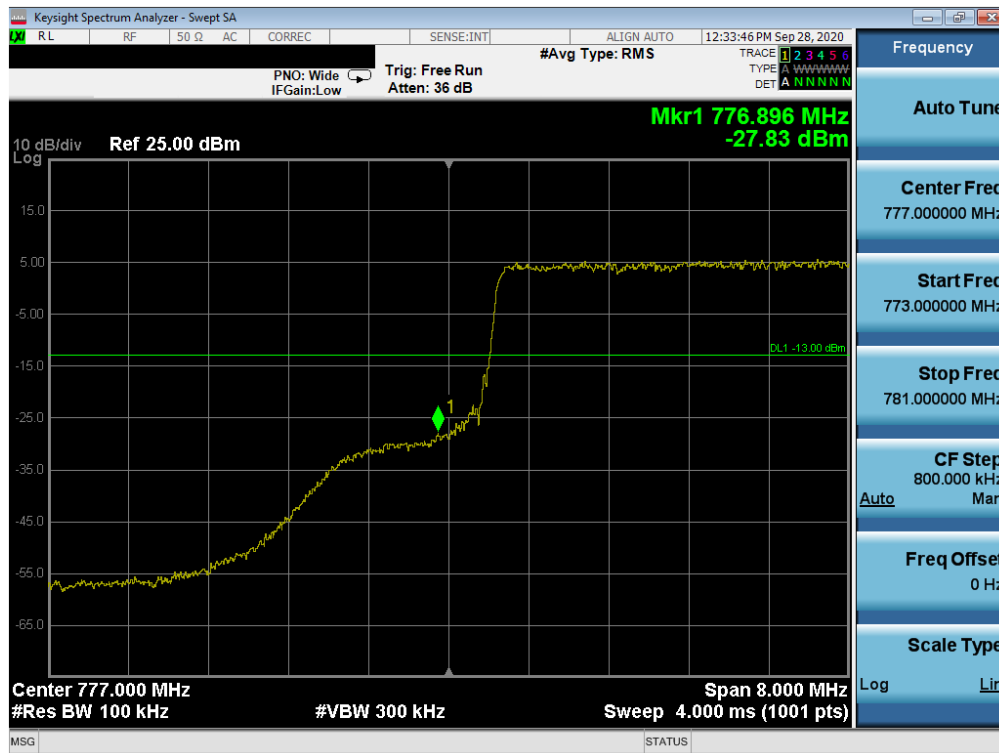
Plot 7-189. Lower Band Edge Plot (NR Band n12 - 5.0MHz - Full RB)



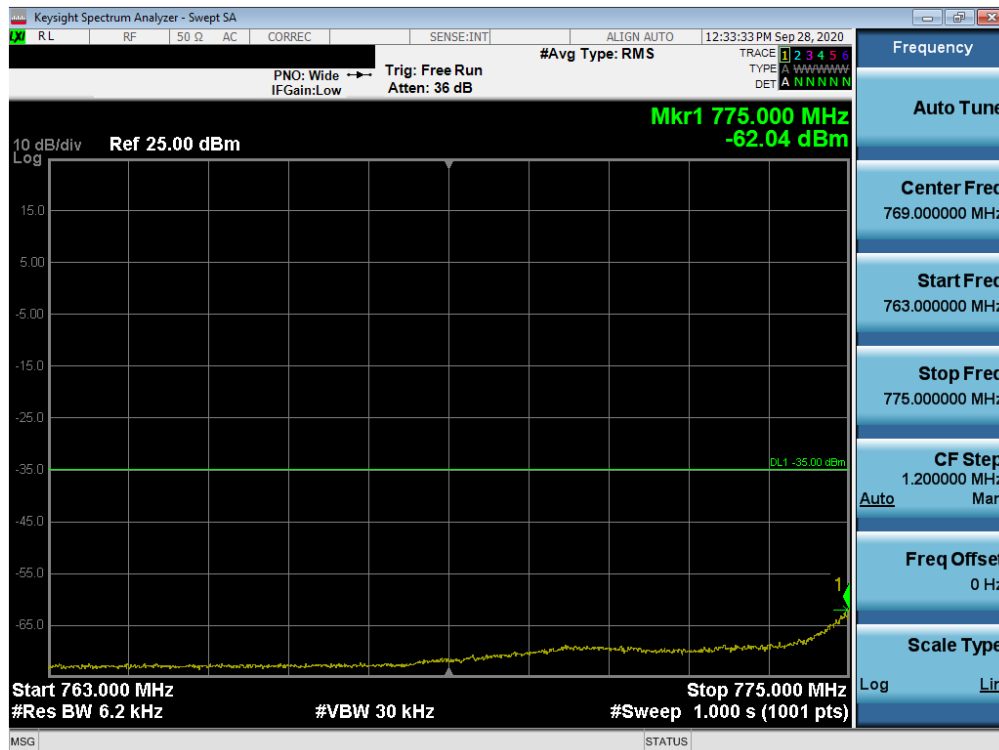
Plot 7-190. Upper Band Edge Plot (NR Band n12 - 5.0MHz - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 109 of 297

LTE Band 13

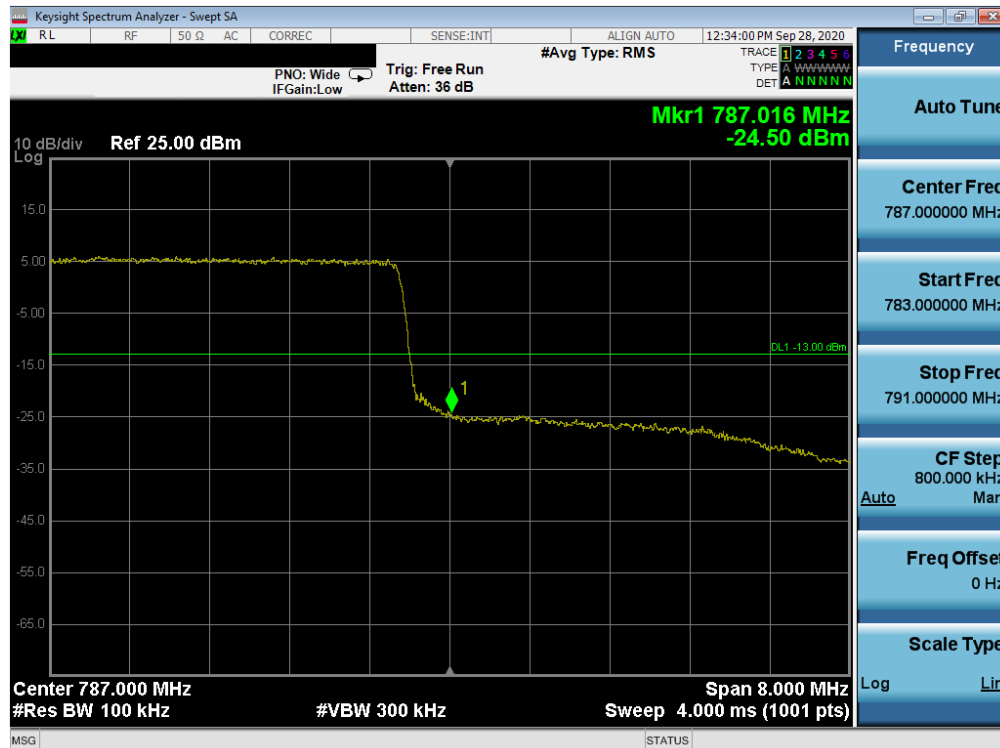


Plot 7-191. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)



Plot 7-192. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 110 of 297

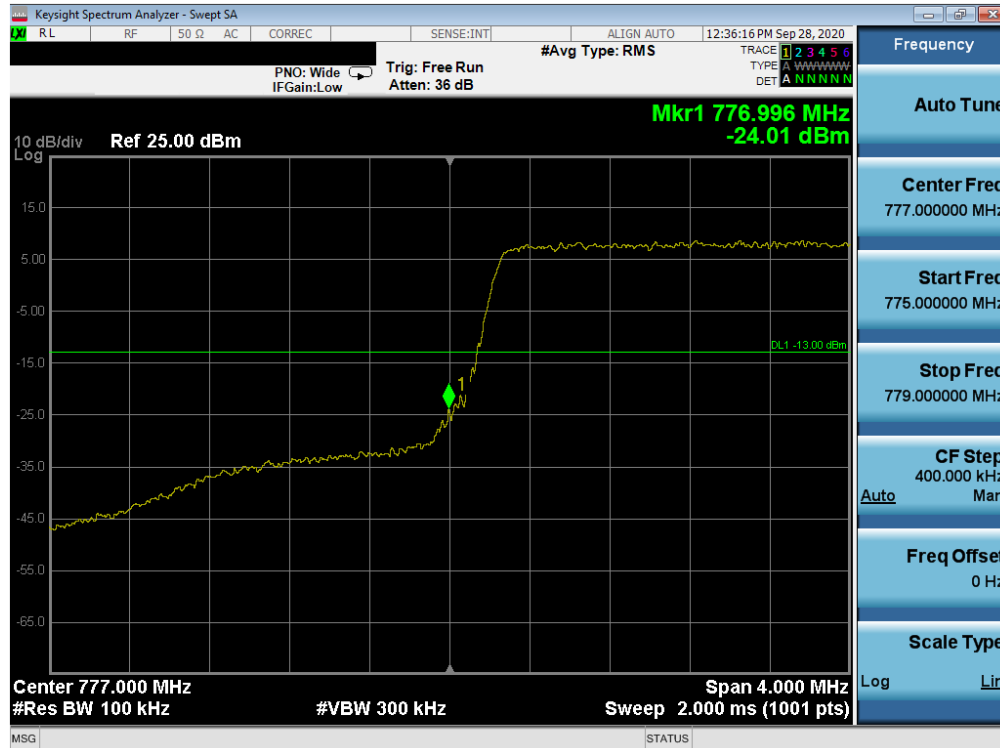


Plot 7-193. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)

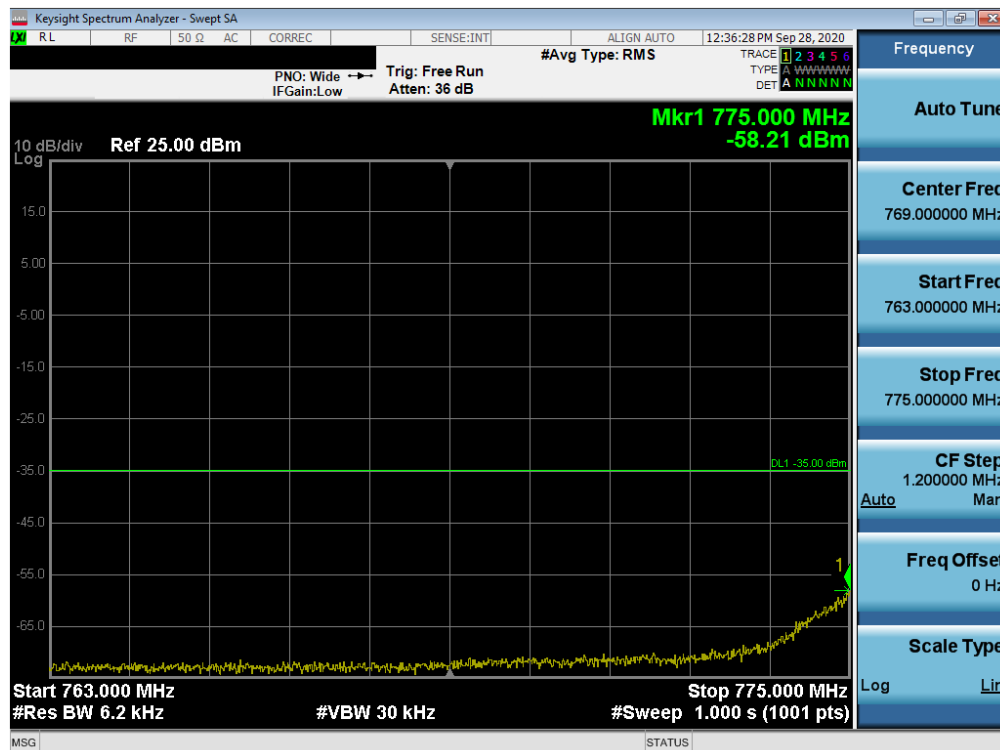


Plot 7-194. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 111 of 297

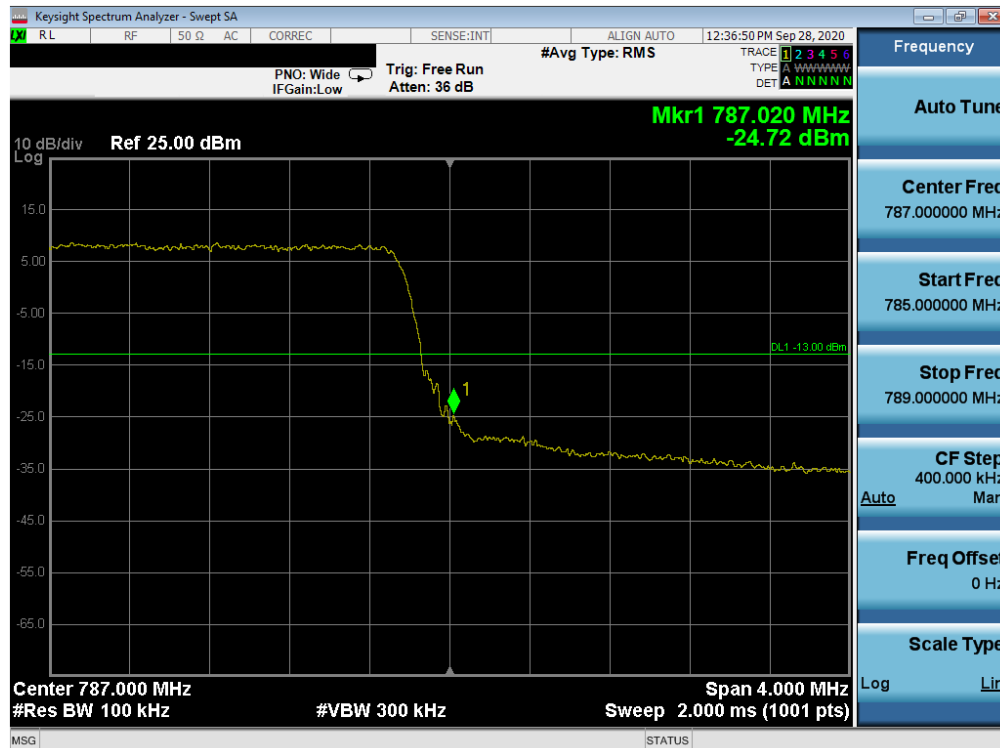


Plot 7-195. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)

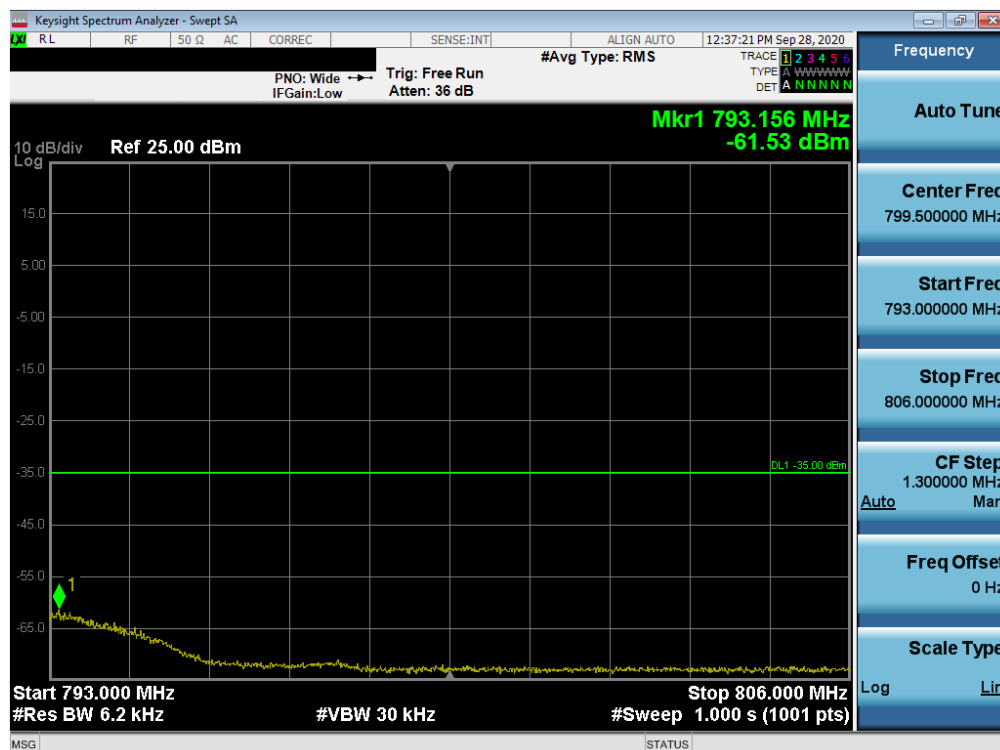


Plot 7-196. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 112 of 297



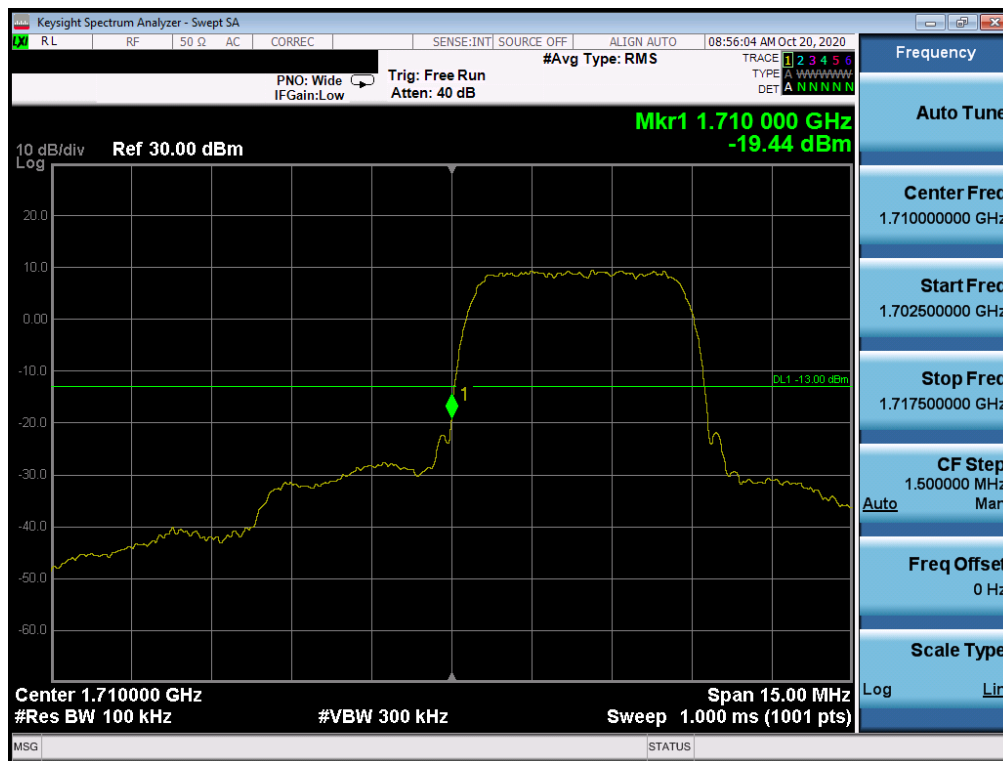
Plot 7-197. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)



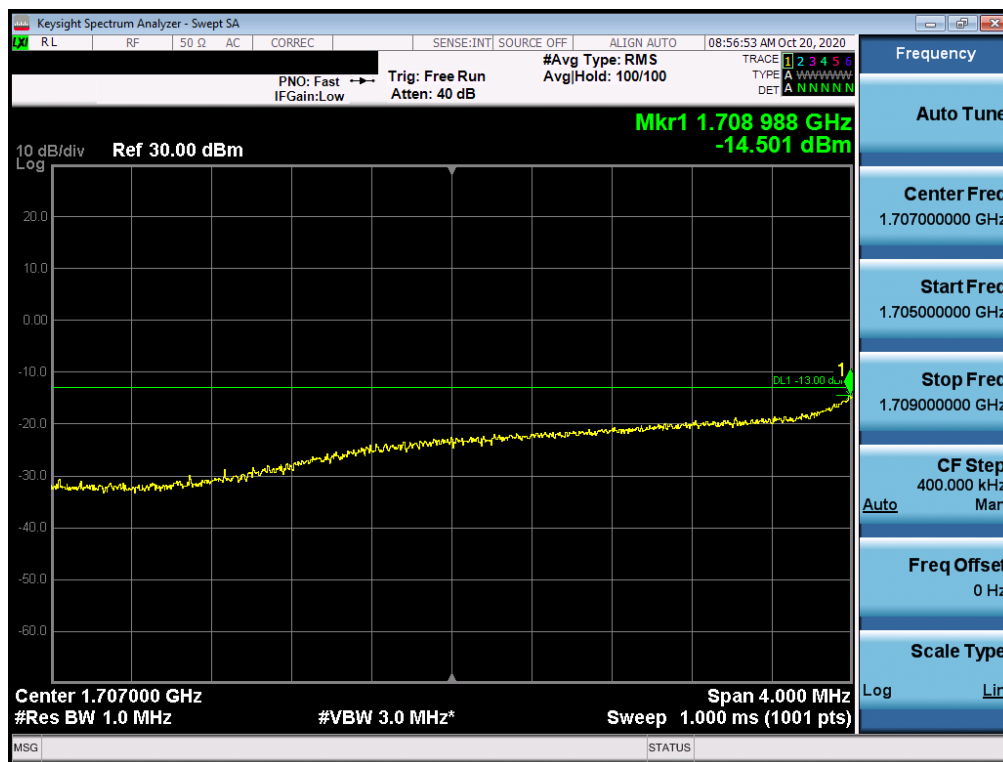
Plot 7-198. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 113 of 297

WCDMA AWS



Plot 7-199. Lower Band Edge Plot (WCDMA AWS – Ch. 1312)

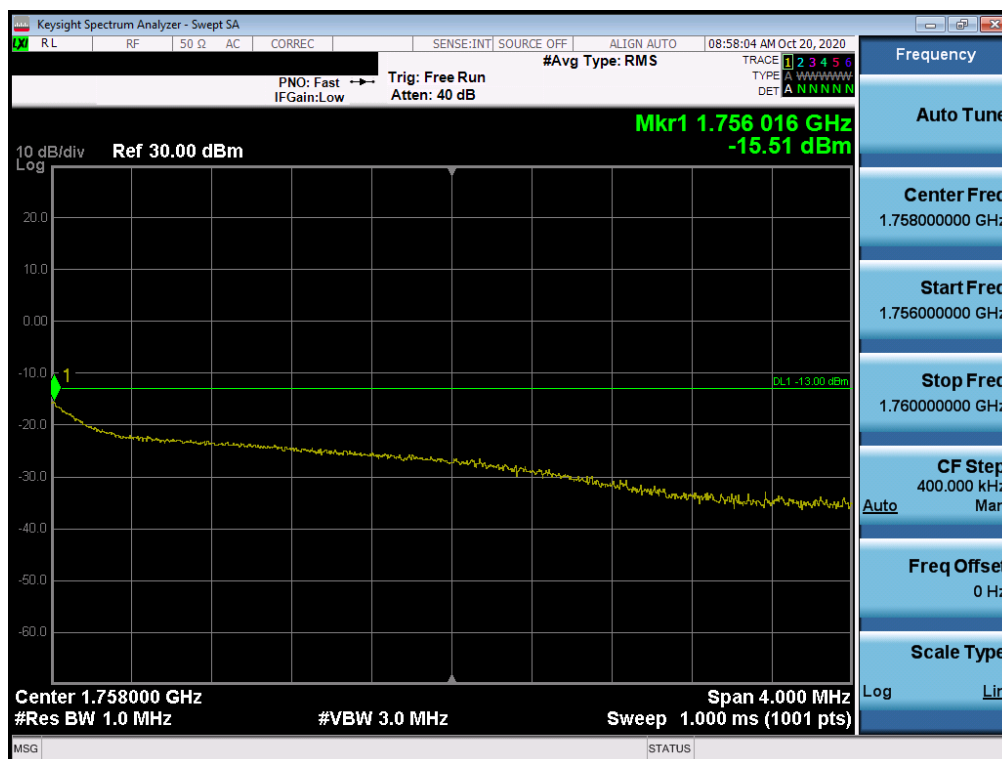


Plot 7-200. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 114 of 297



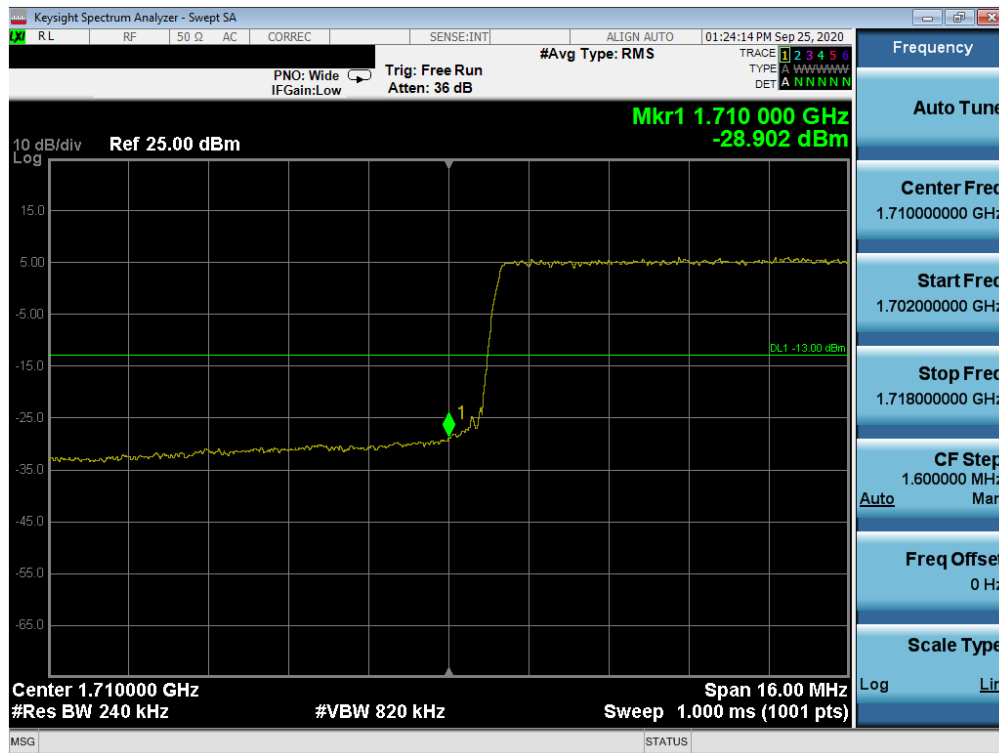
Plot 7-201. Upper Band Edge Plot (WCDMA AWS - Ch. 1513)



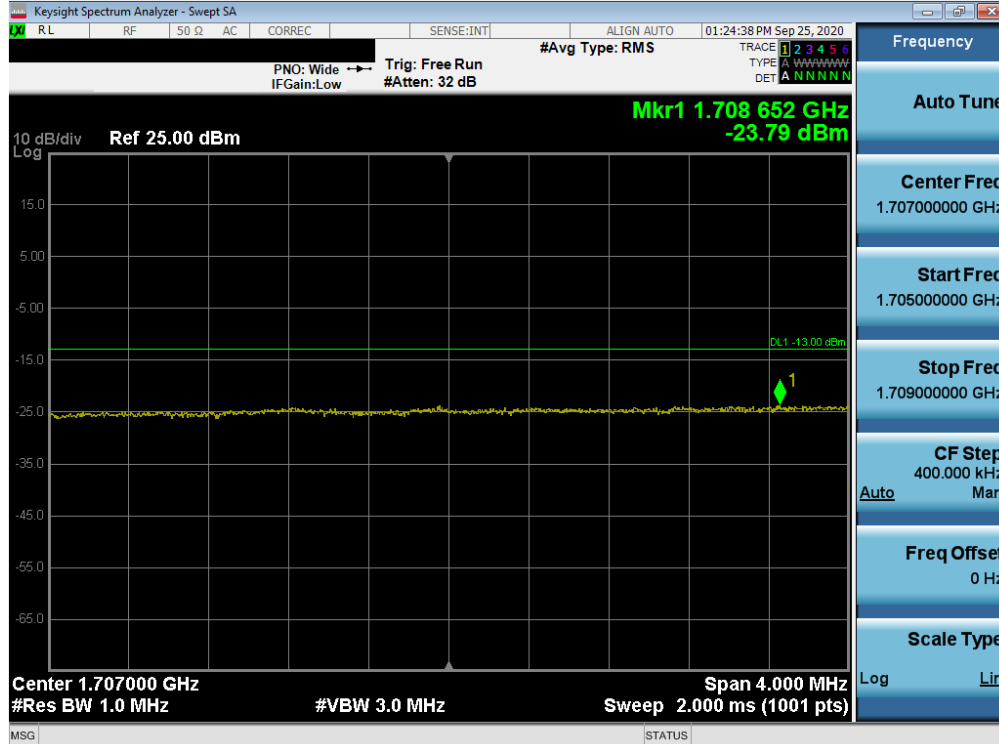
Plot 7-202. Upper Extended Band Edge Plot (WCDMA AWS - Ch. 1513)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 - 12/10/2020	EUT Type: Portable Handset		Page 115 of 297

LTE Band 66/4

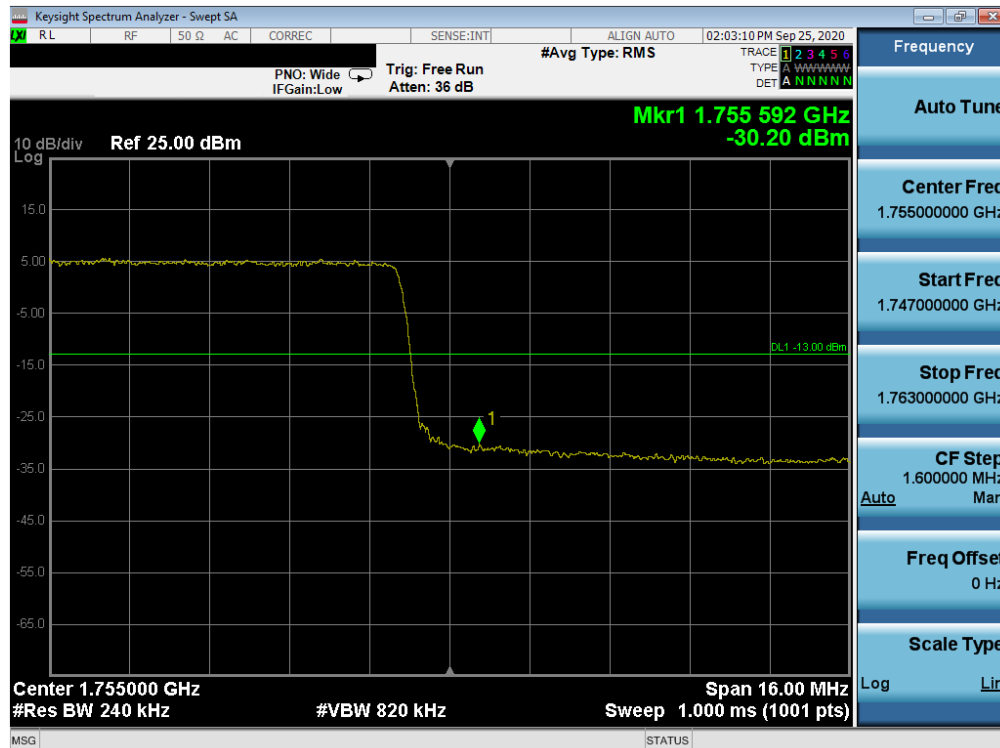


Plot 7-203. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

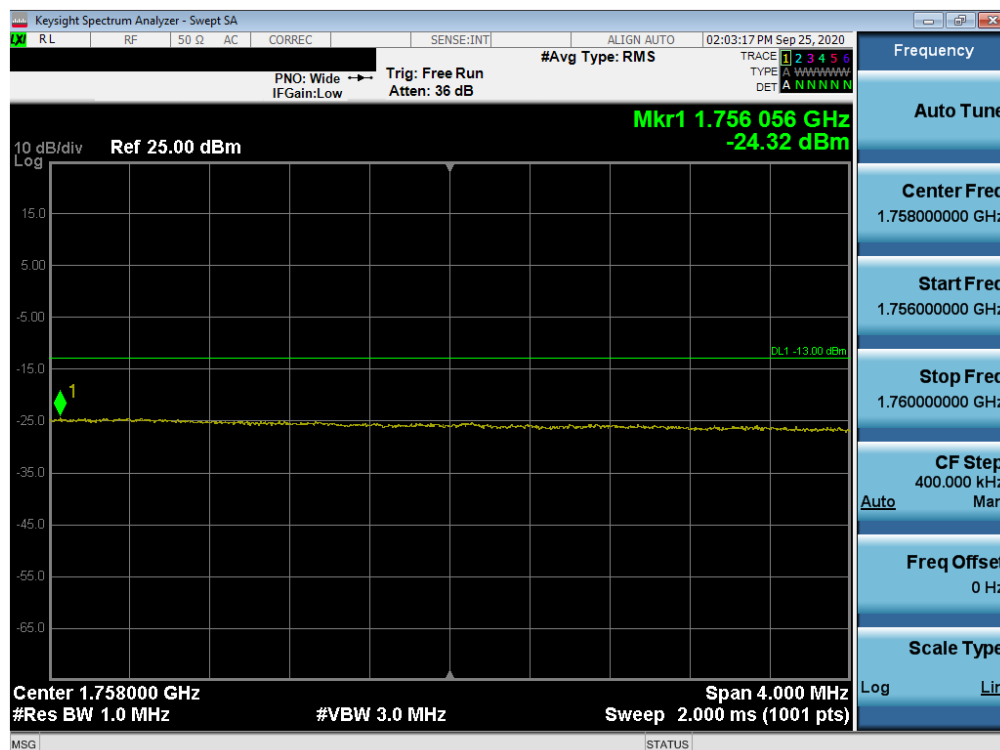


Plot 7-204. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 116 of 297

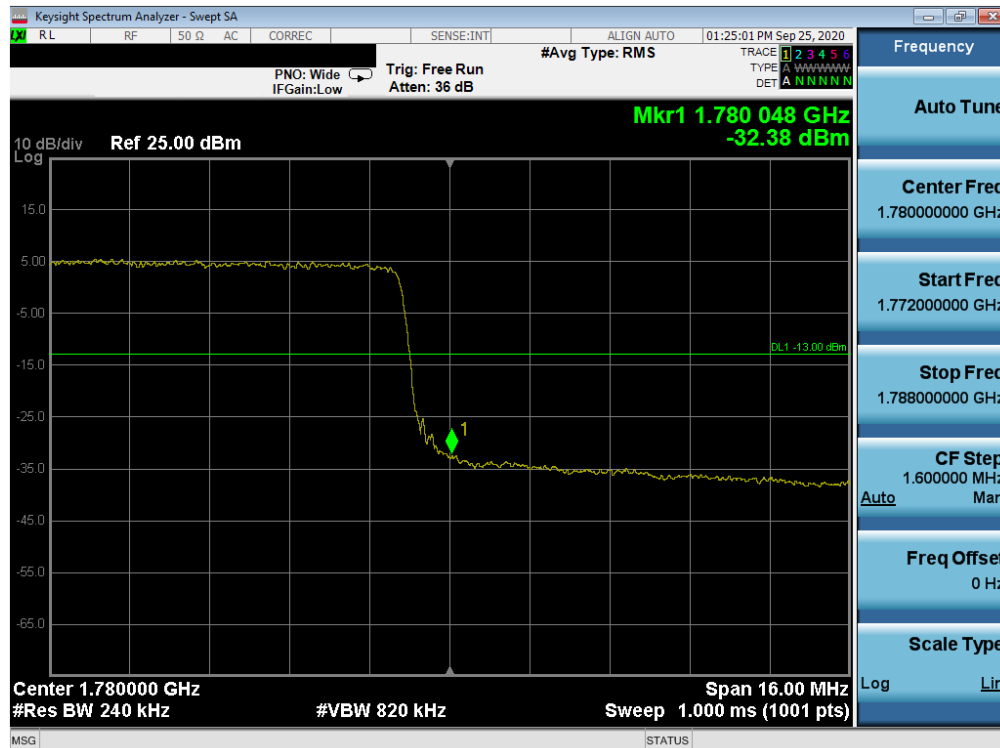


Plot 7-205. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

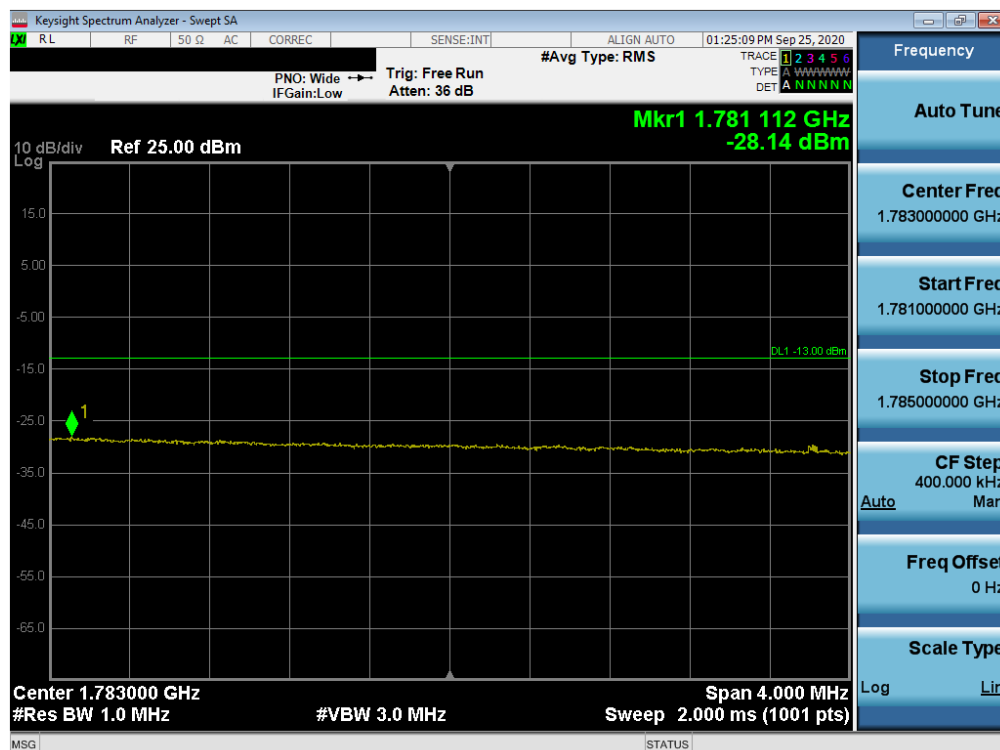


Plot 7-206. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 117 of 297

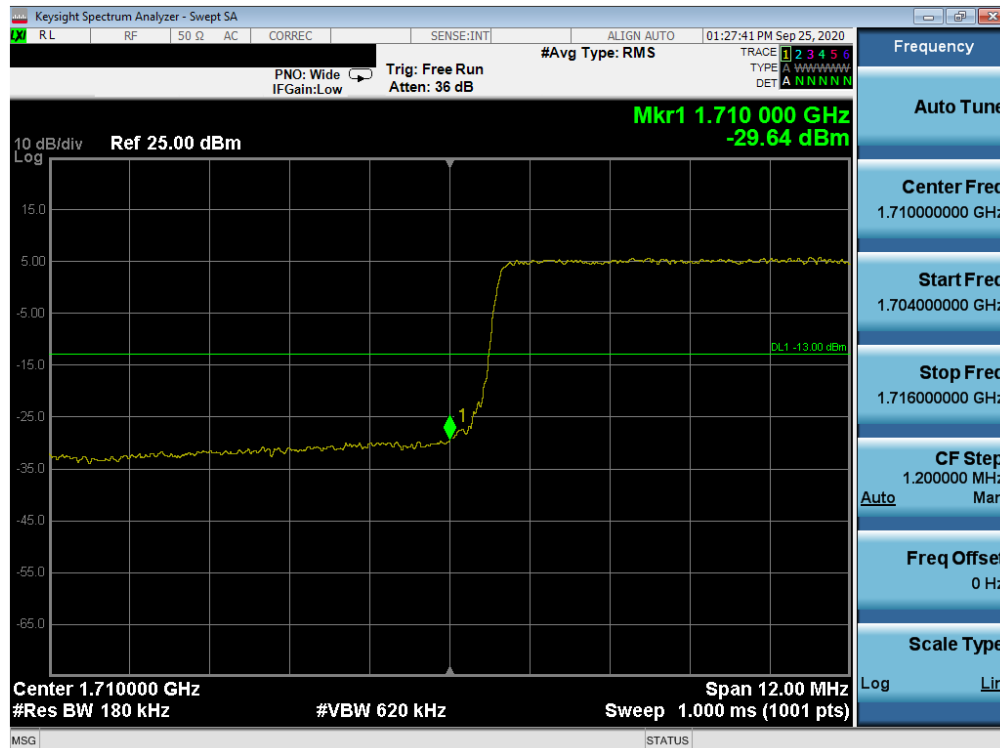


Plot 7-207. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

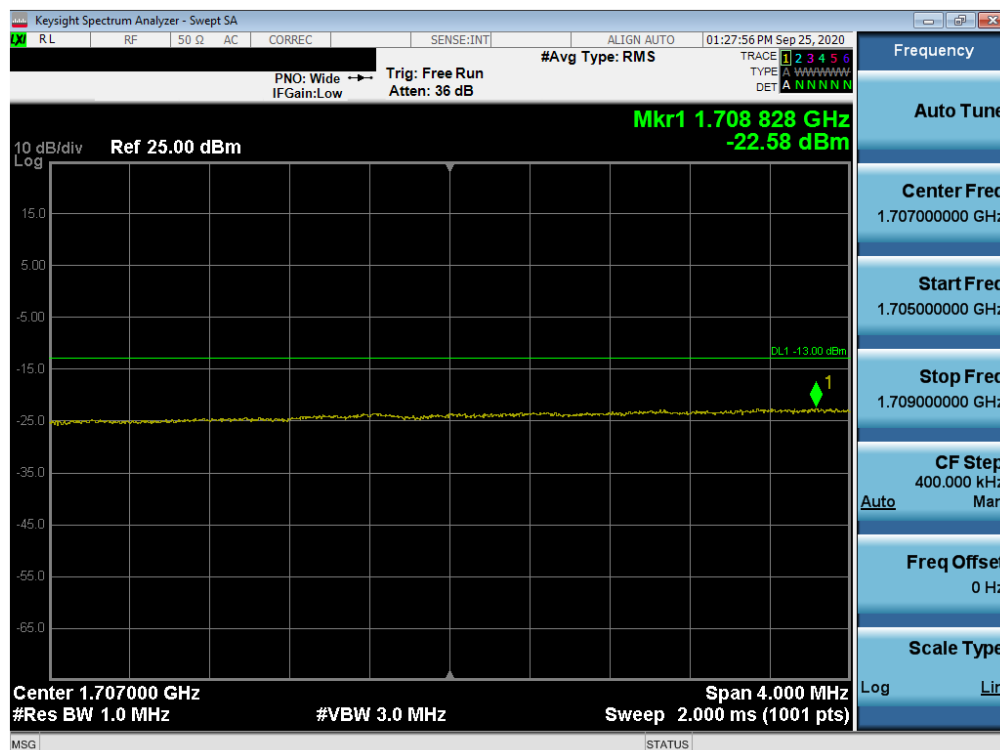


Plot 7-208. Channel Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 118 of 297

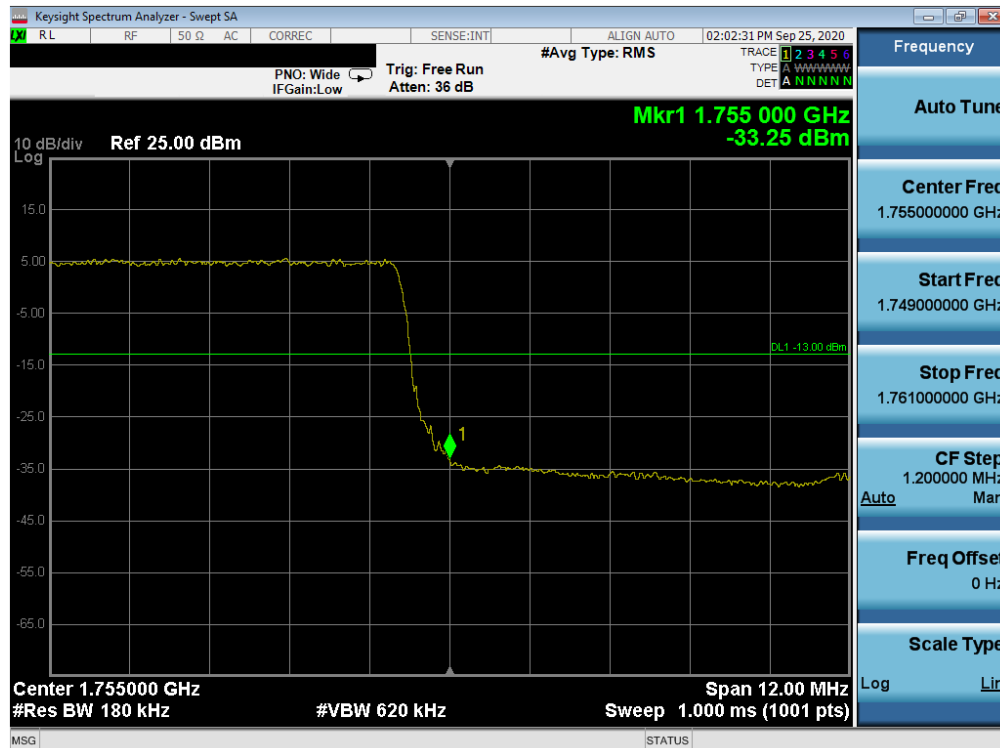


Plot 7-209. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

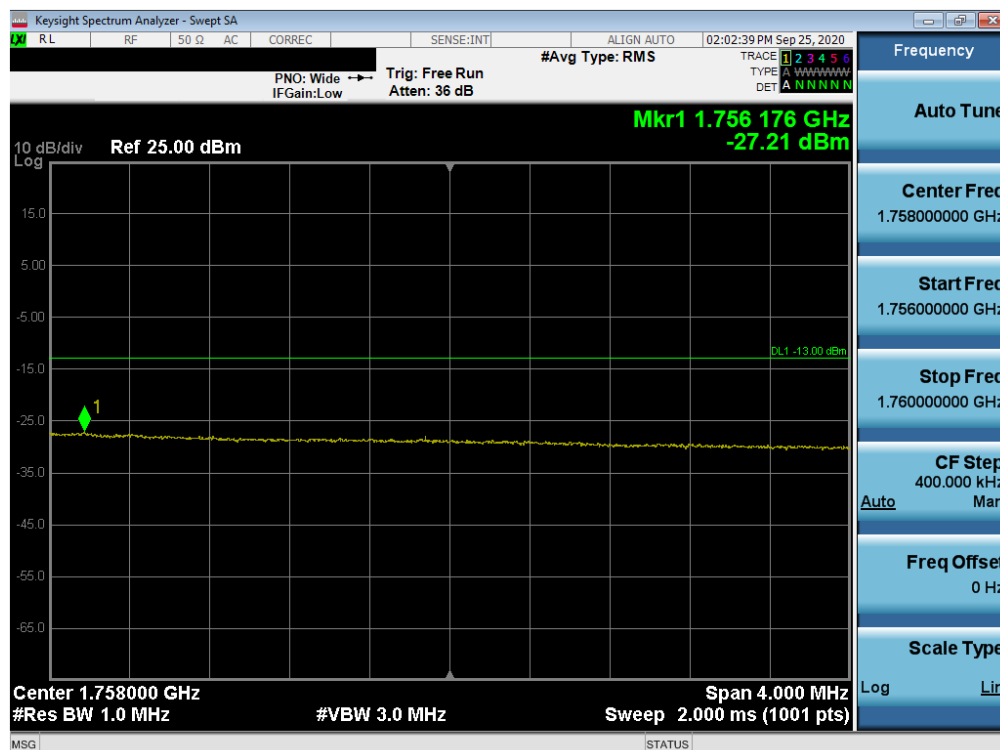


Plot 7-210. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 119 of 297

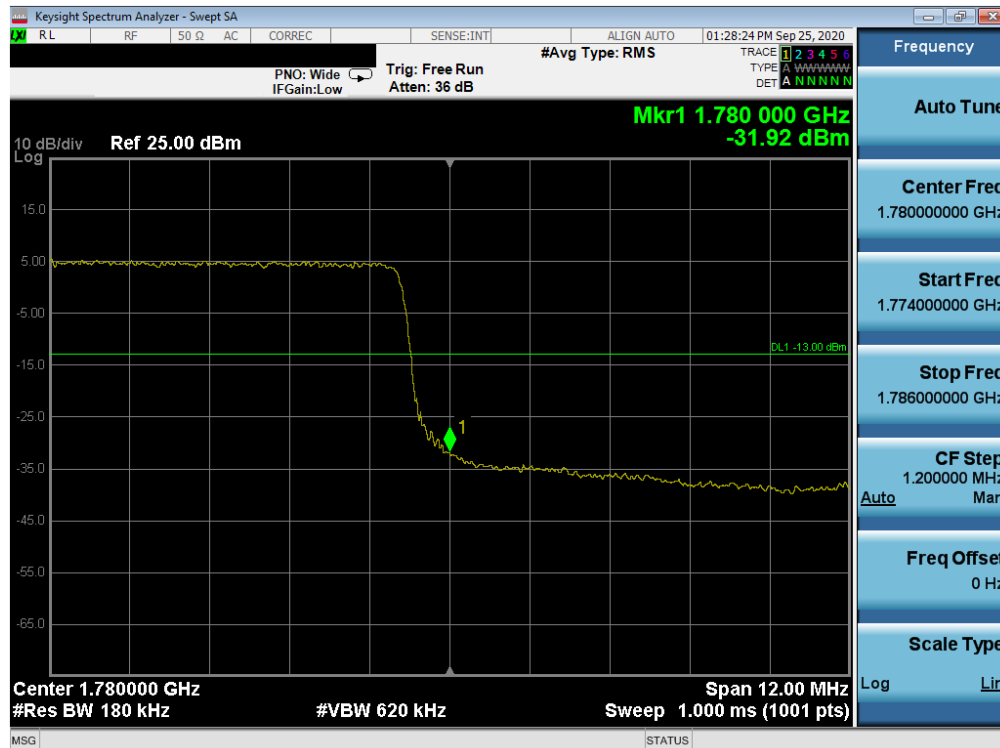


Plot 7-211. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)



Plot 7-212. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 120 of 297

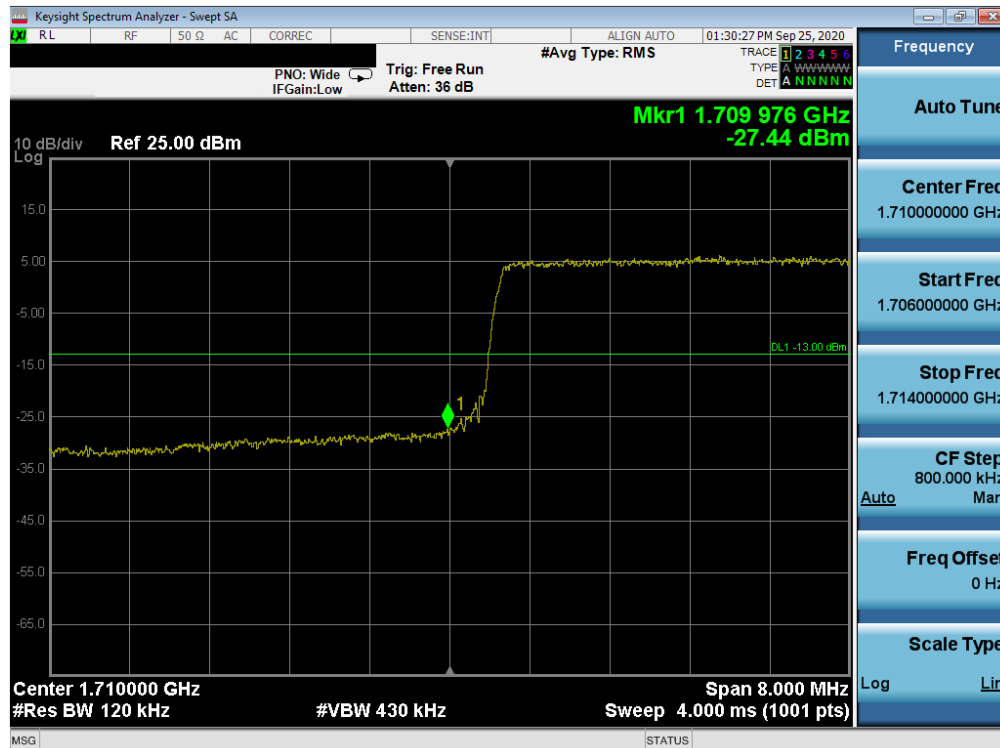


Plot 7-213. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

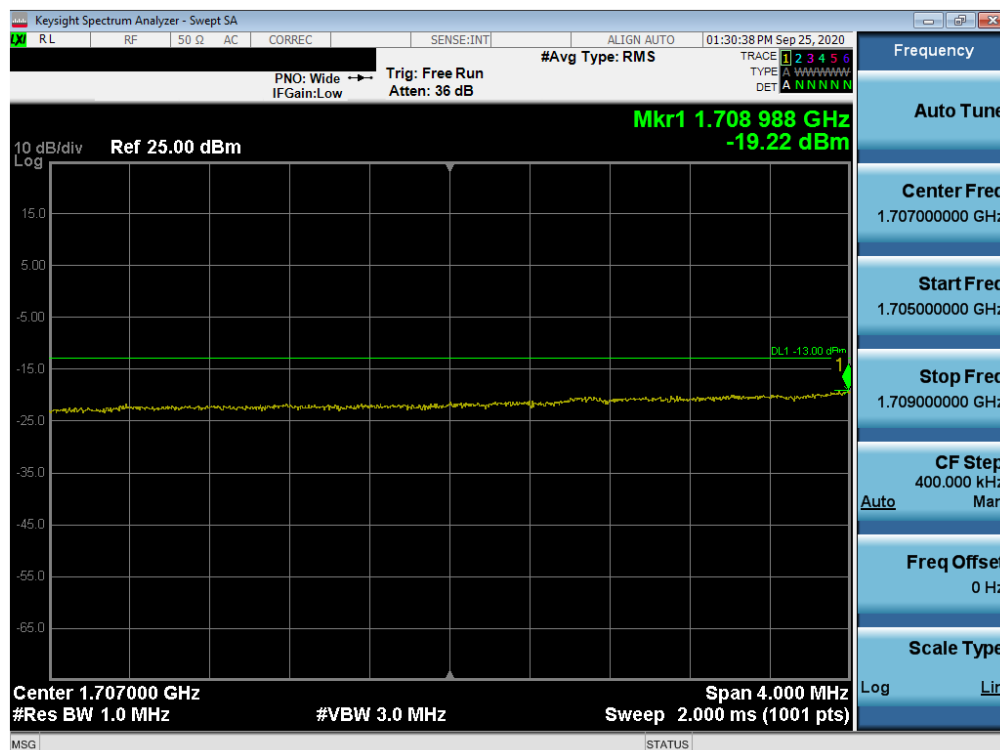


Plot 7-214. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 121 of 297

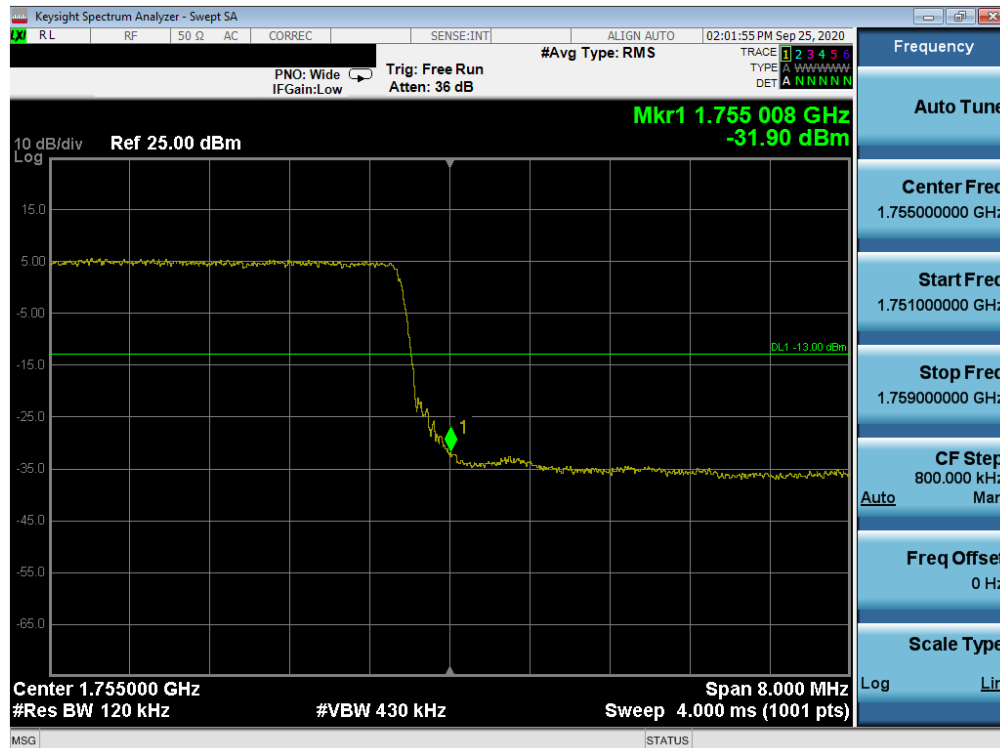


Plot 7-215. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

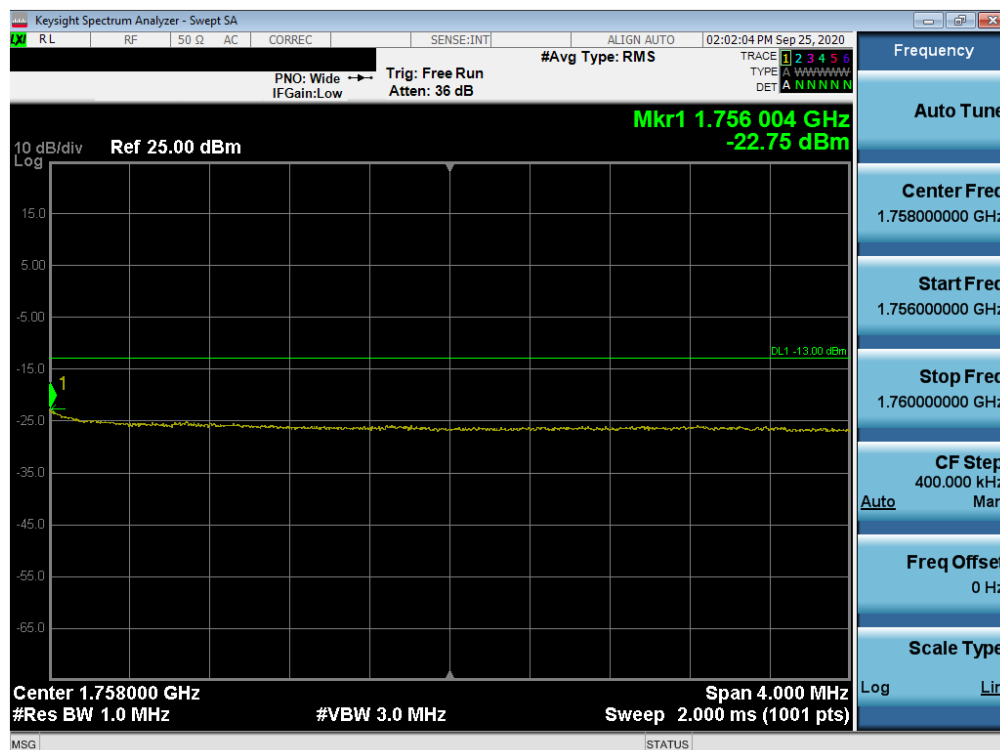


Plot 7-216. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 122 of 297

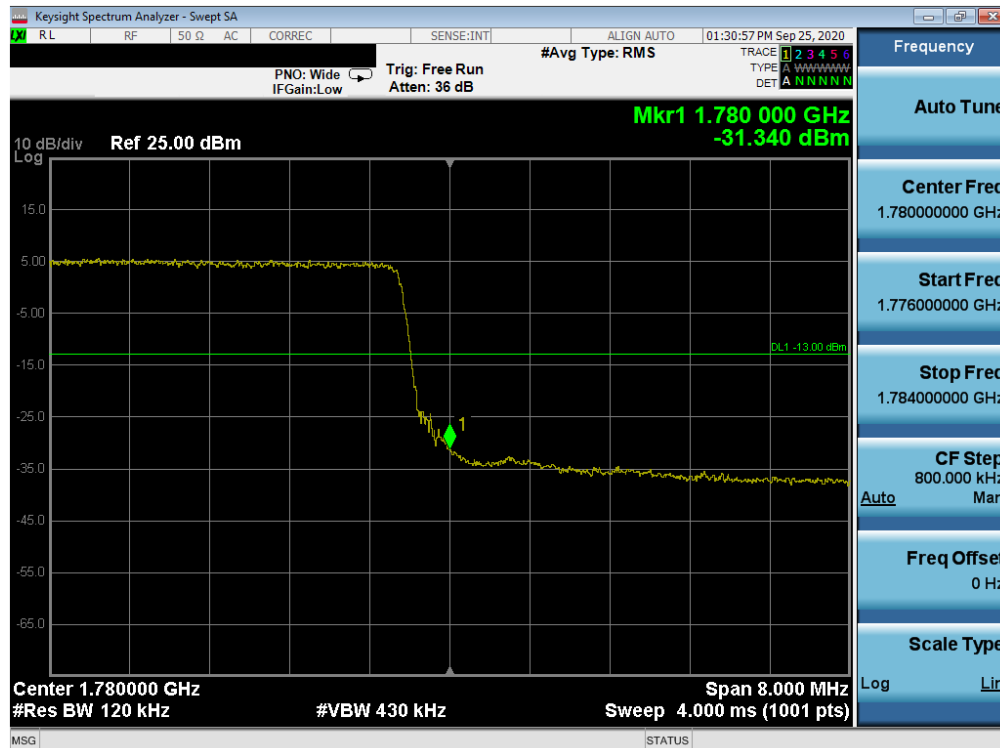


Plot 7-217. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)



Plot 7-218. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27-A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 123 of 297

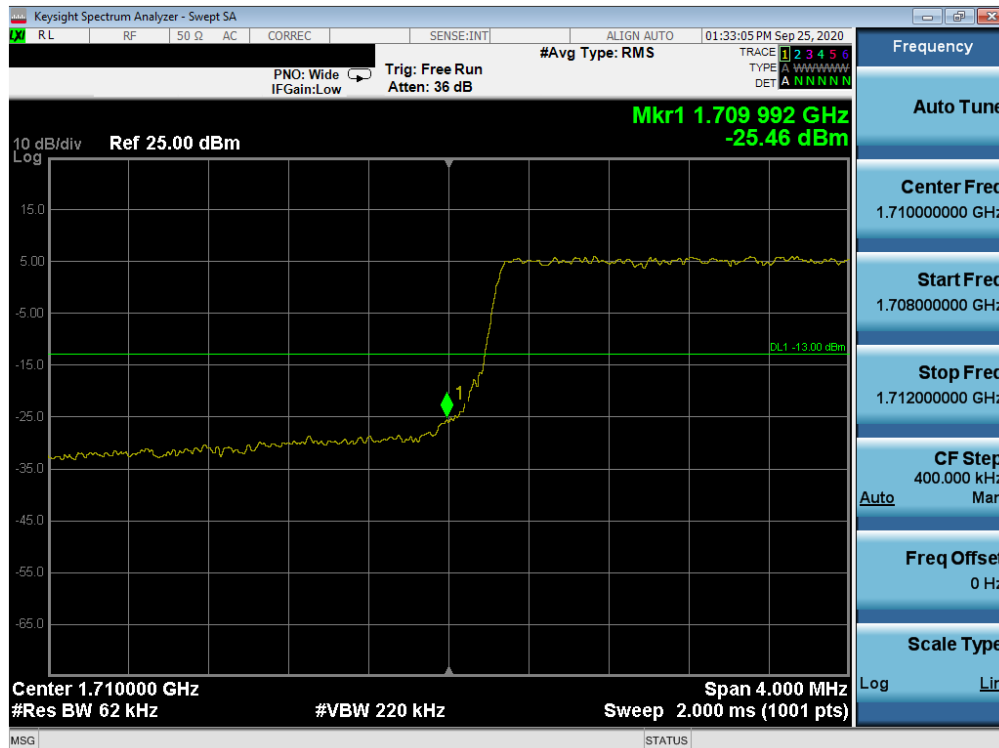


Plot 7-219. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

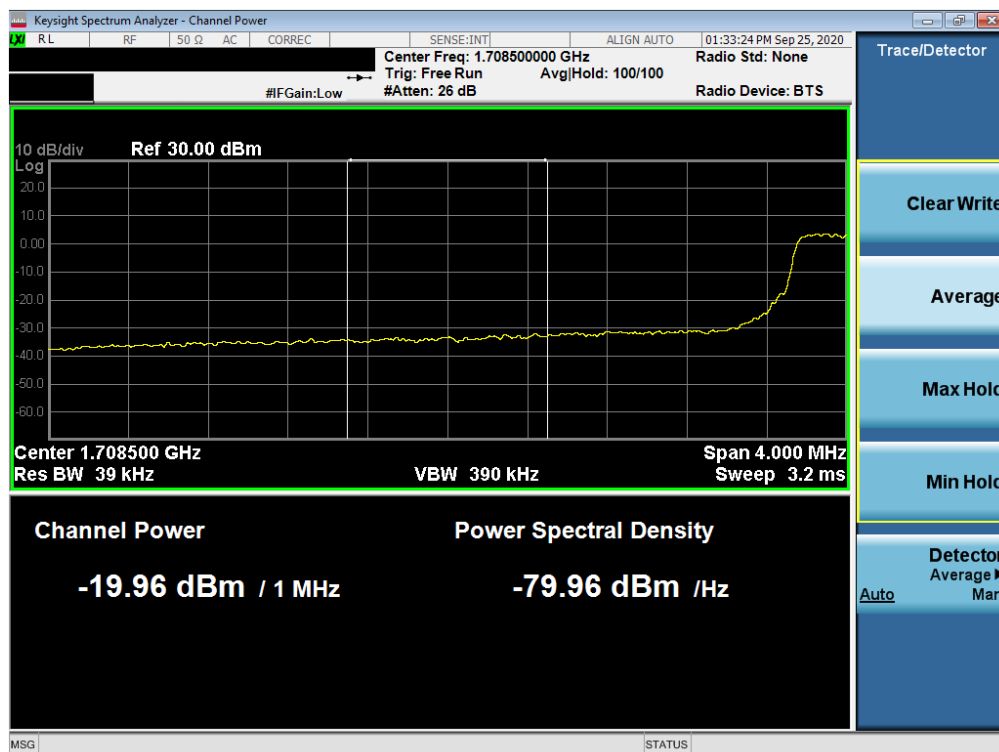


Plot 7-220. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 124 of 297

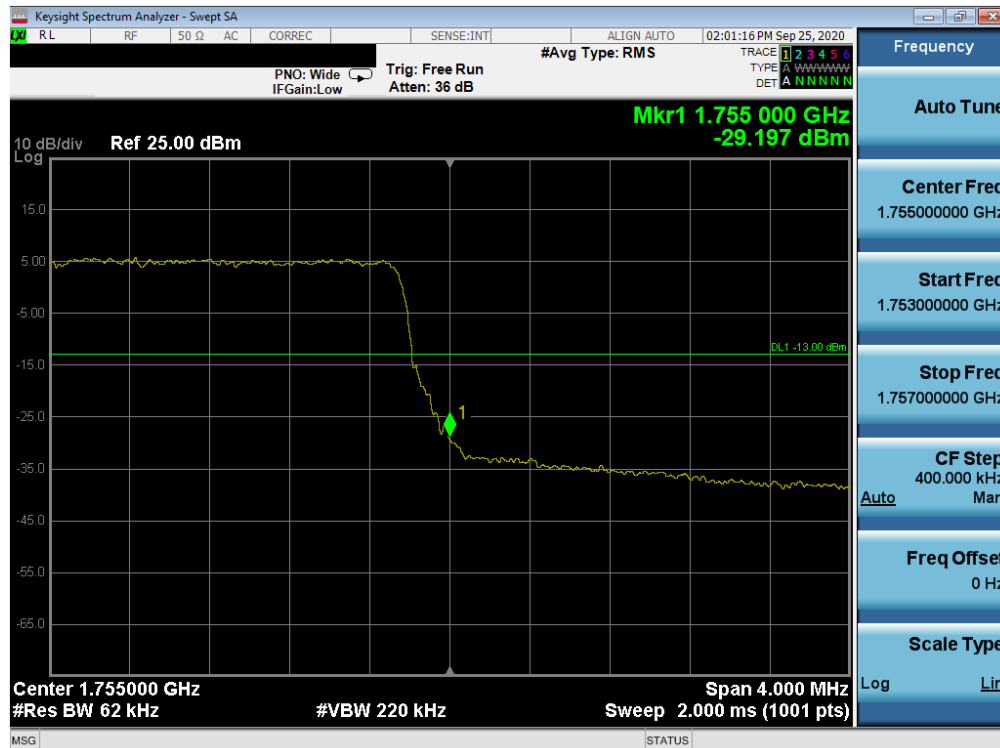


Plot 7-221. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

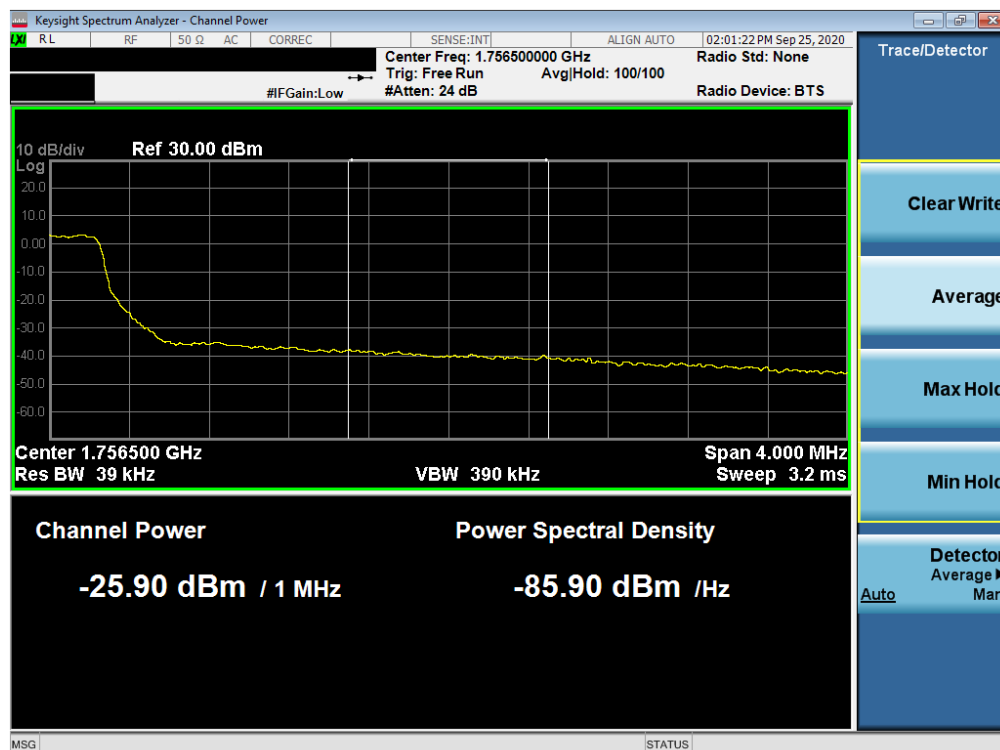


Plot 7-222. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 125 of 297



Plot 7-223. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)



Plot 7-224. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-27.A3L	Test Dates: 9/23 – 12/10/2020	EUT Type: Portable Handset		Page 126 of 297