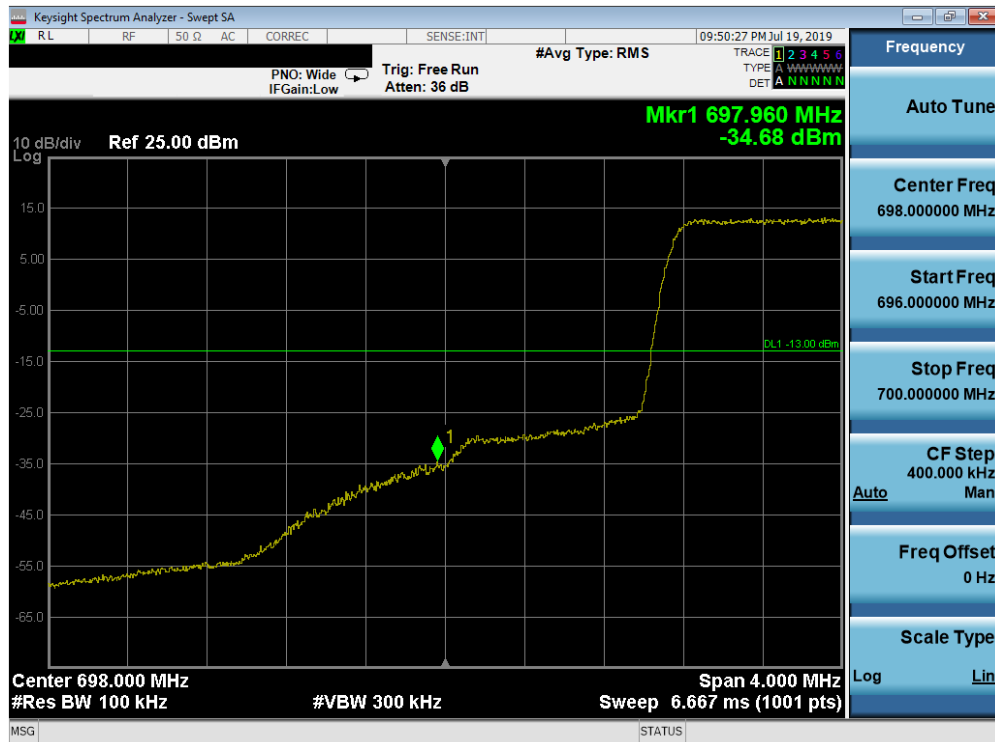
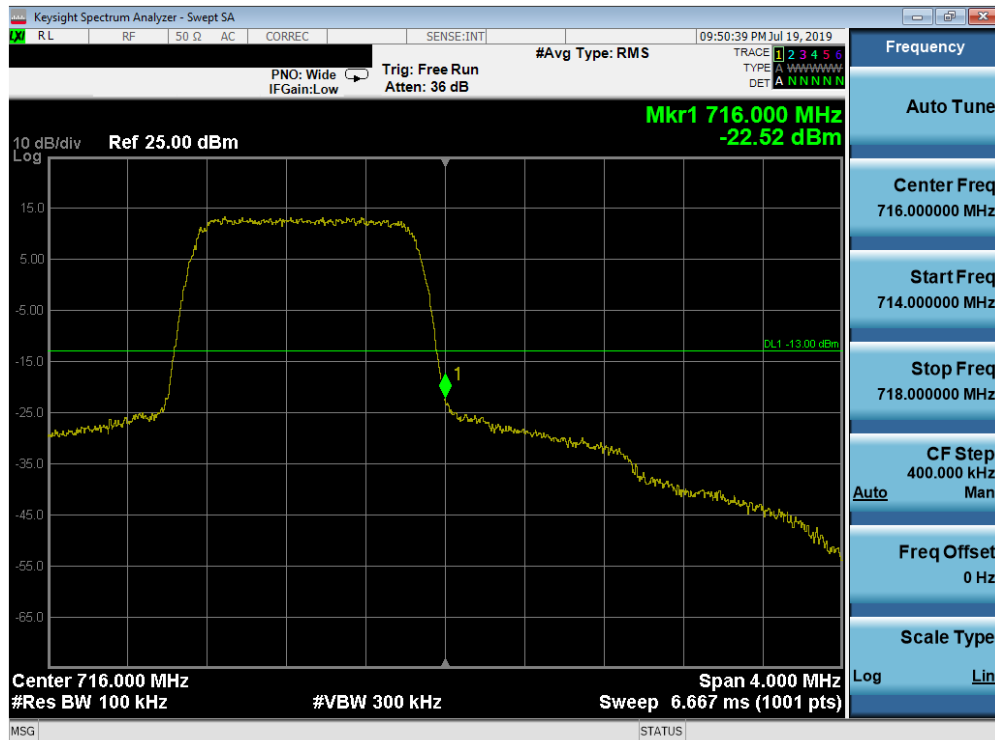


Band 12/17

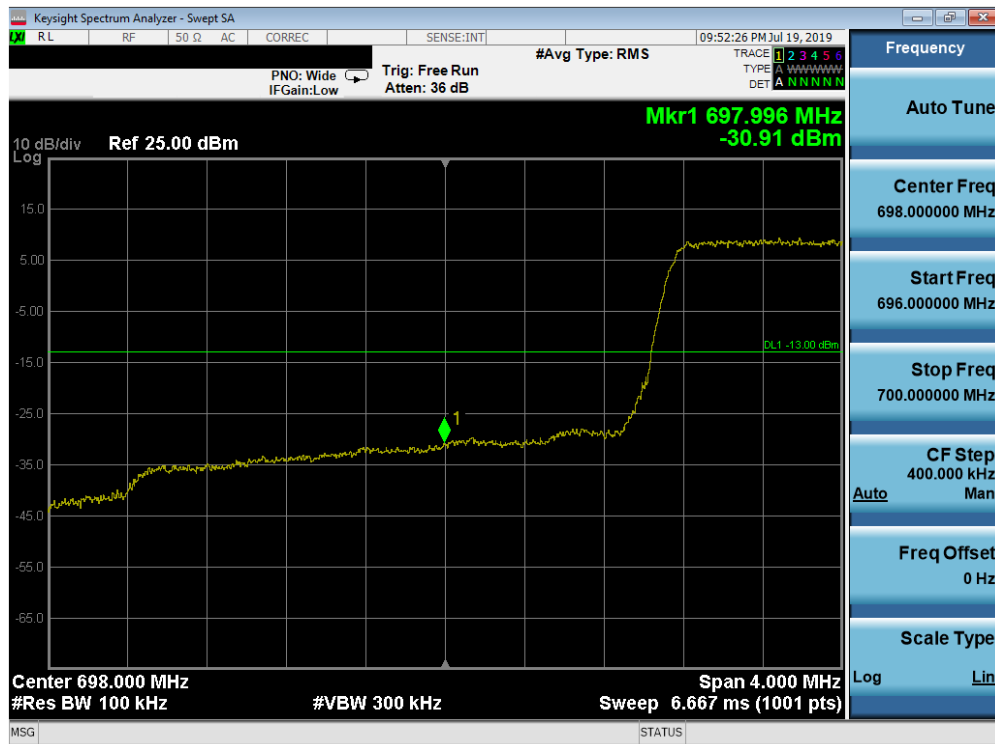


Plot 7-127. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-128. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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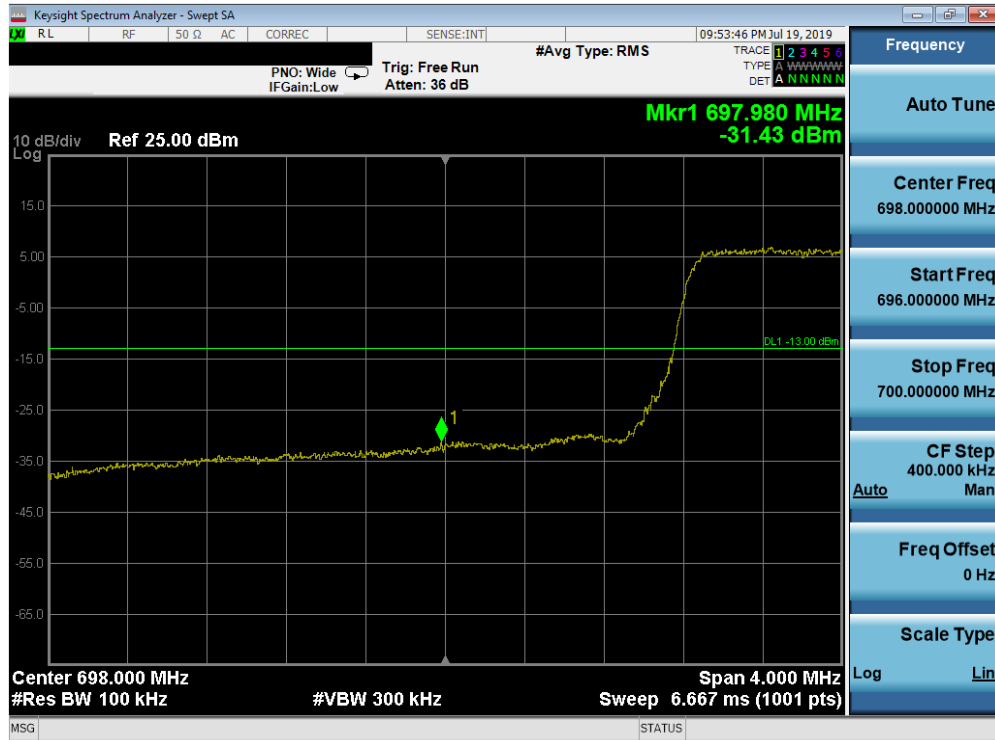


Plot 7-129. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

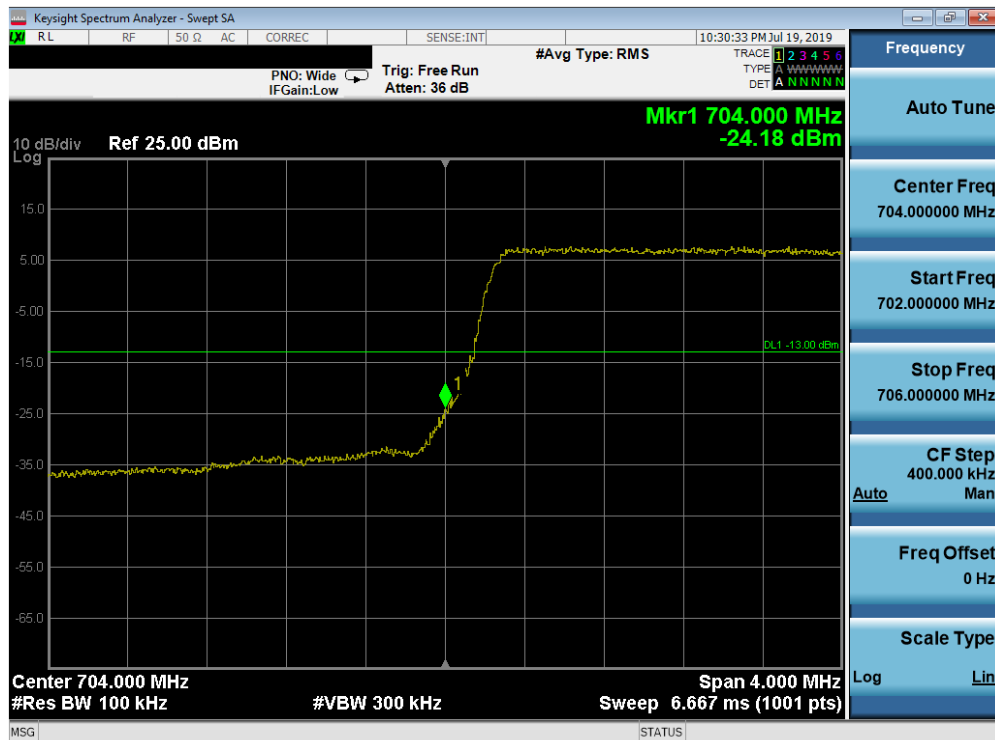


Plot 7-130. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-131. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

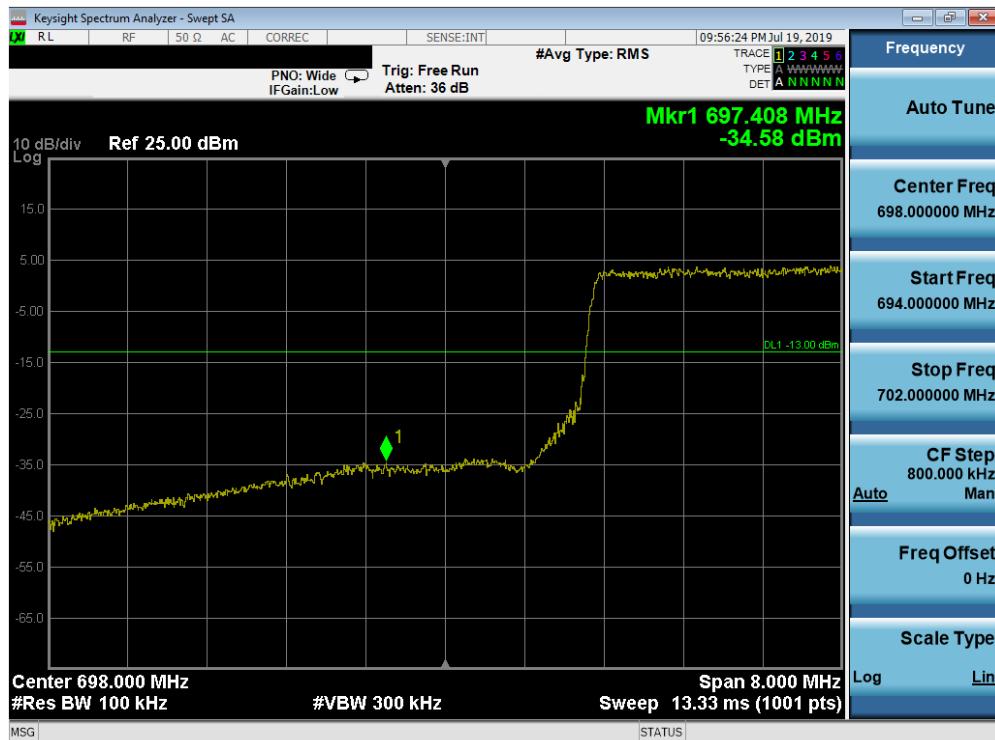


Plot 7-132. Lower Band Edge Plot (Band 17 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 86 of 184

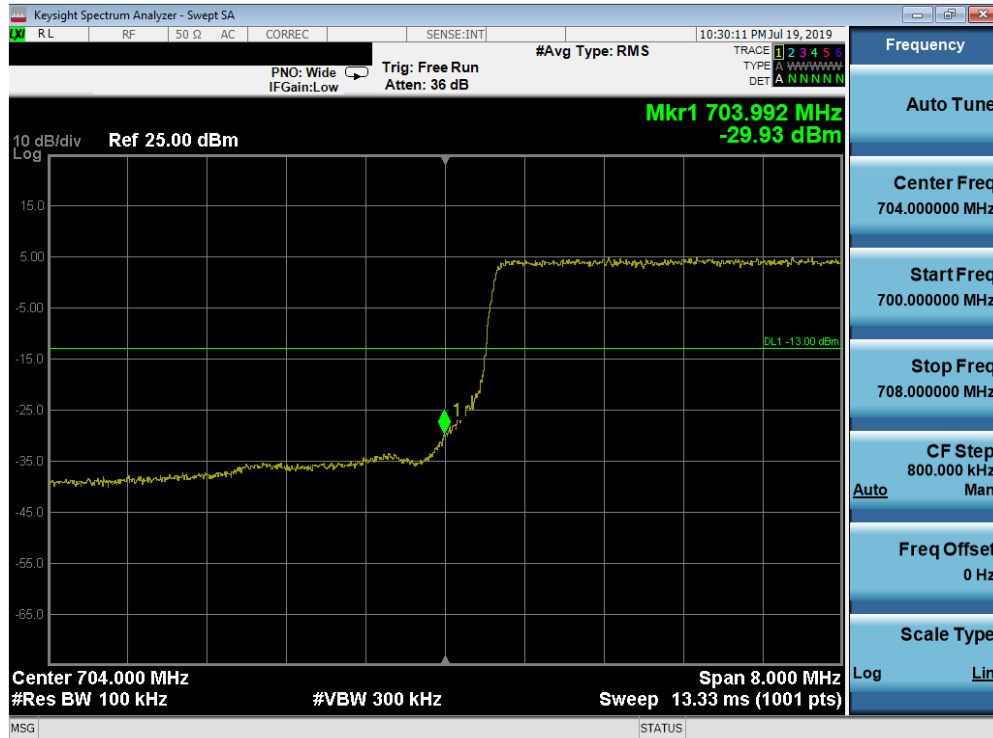


Plot 7-133. Upper Band Edge Plot (Band 12/17 - 5.0MHz QPSK - Full RB Configuration)

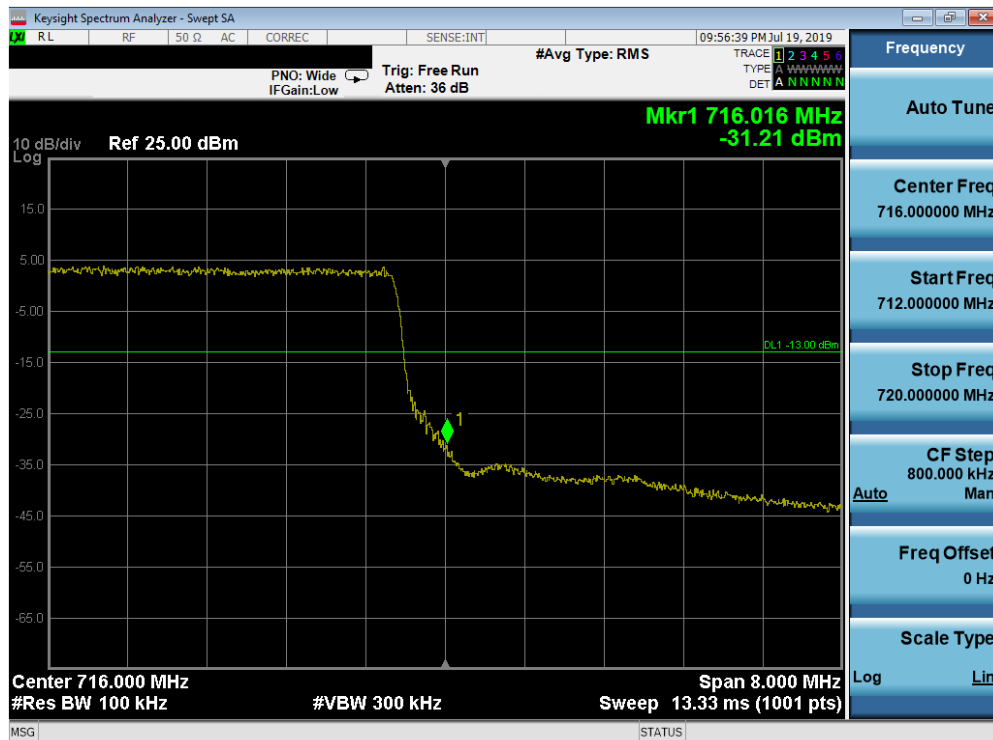


Plot 7-134. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 87 of 184



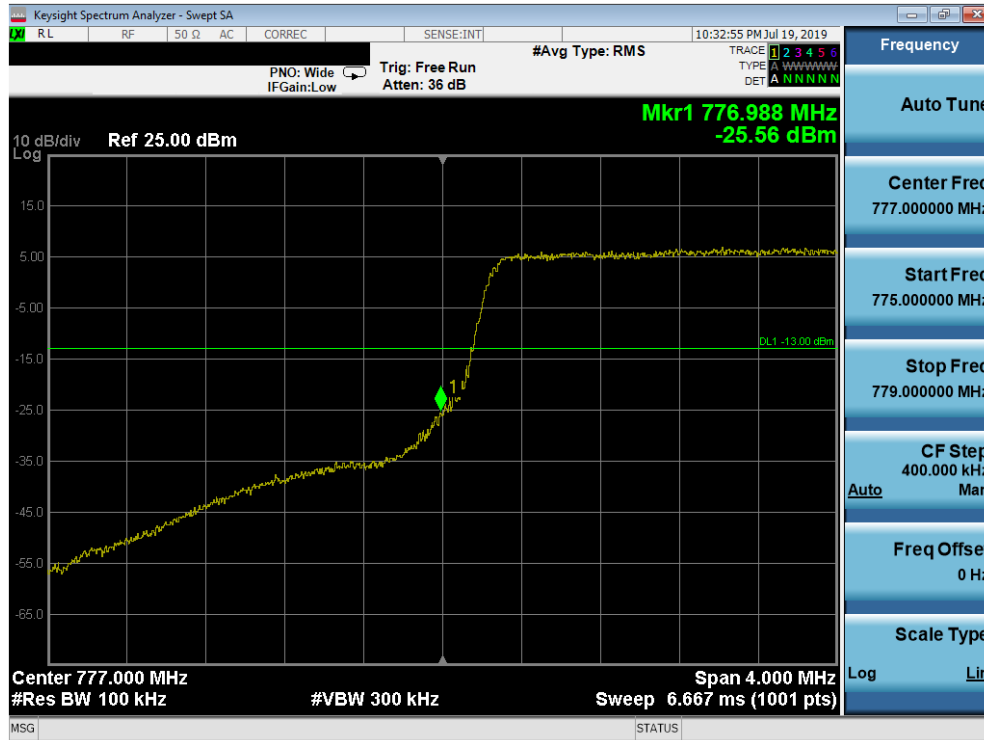
Plot 7-135. Lower Band Edge Plot (Band 17 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-136. Upper Band Edge Plot (Band 12/17 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 88 of 184

Band 13

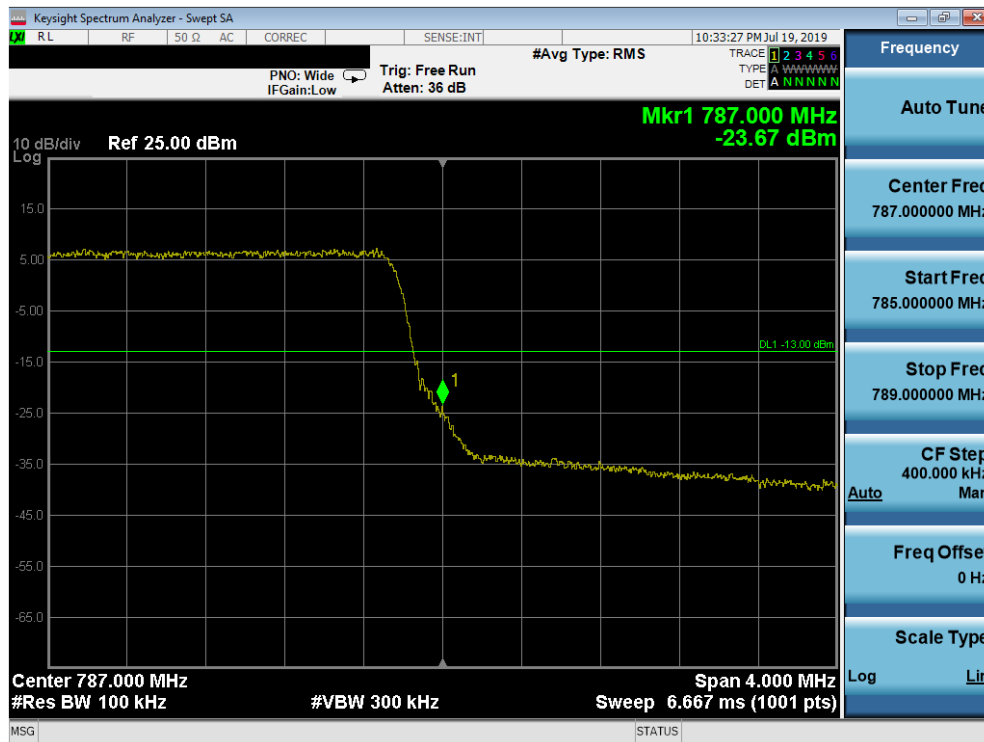


Plot 7-137. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-138. Lower Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 89 of 184

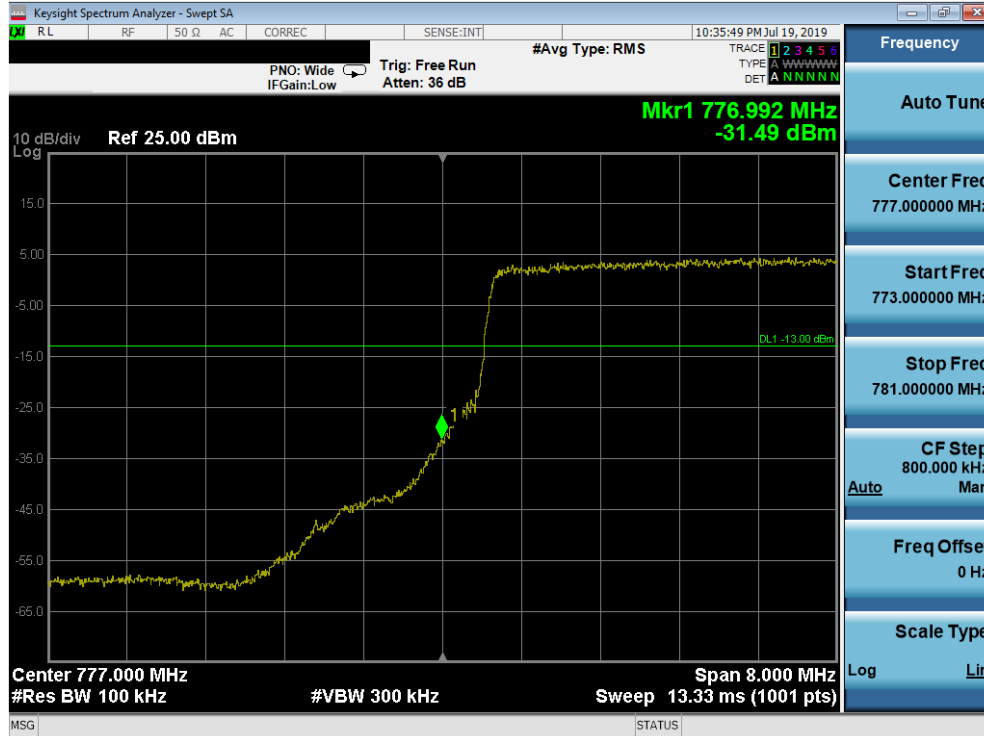


Plot 7-139. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

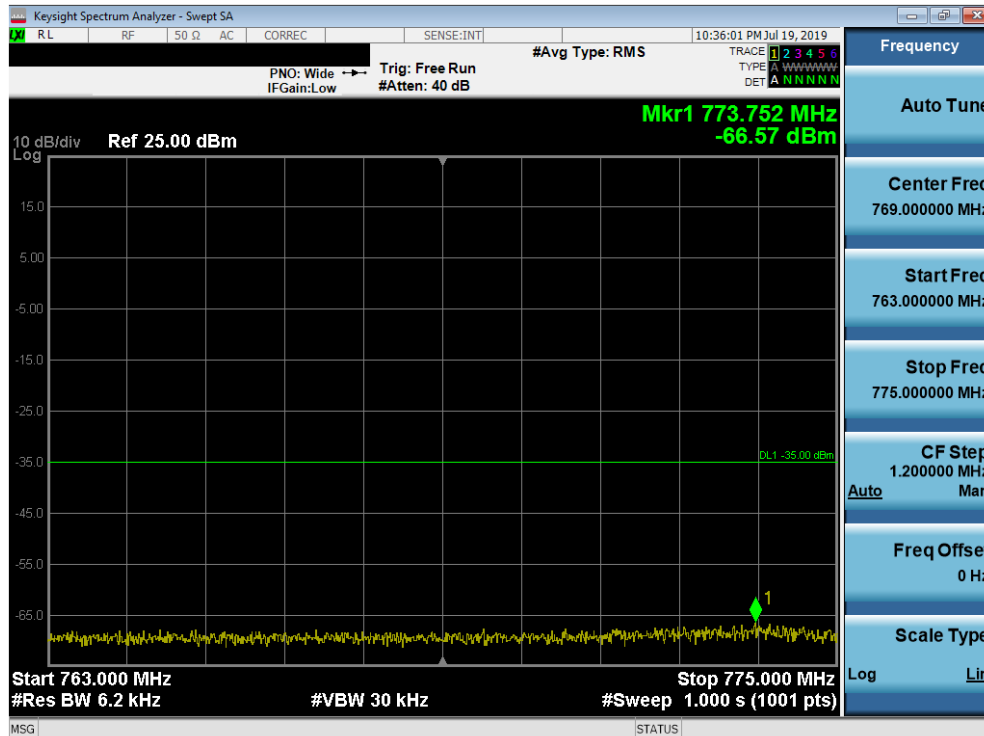


Plot 7-140. Upper Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 90 of 184

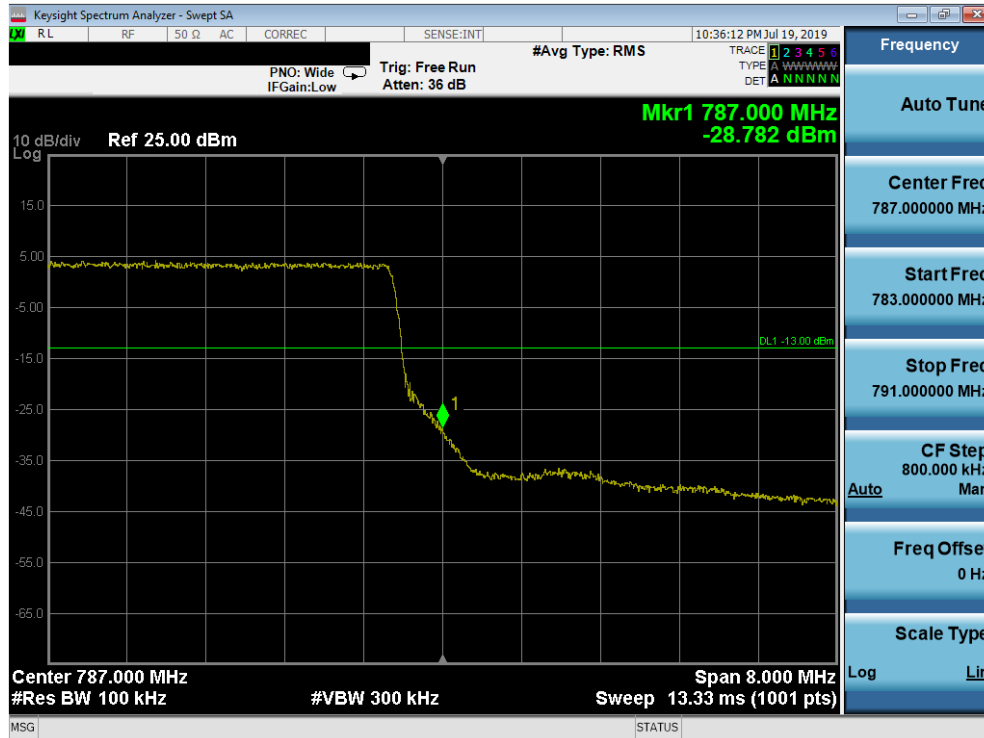


Plot 7-141. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-142. Lower Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 91 of 184



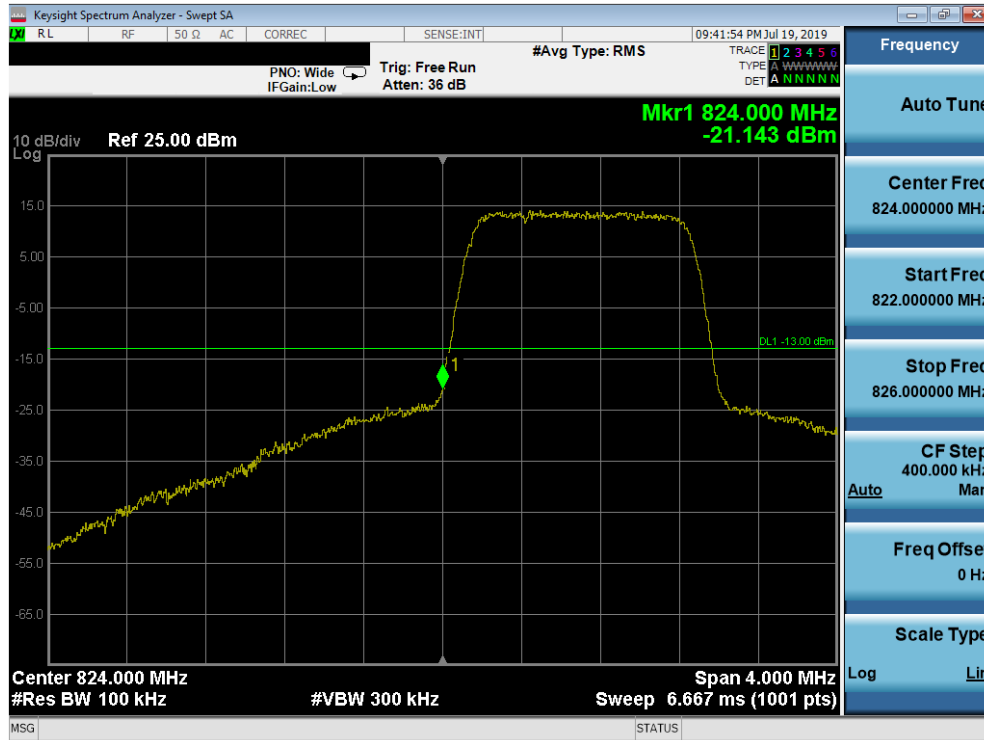
Plot 7-143. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-144. Upper Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 92 of 184

Band 5

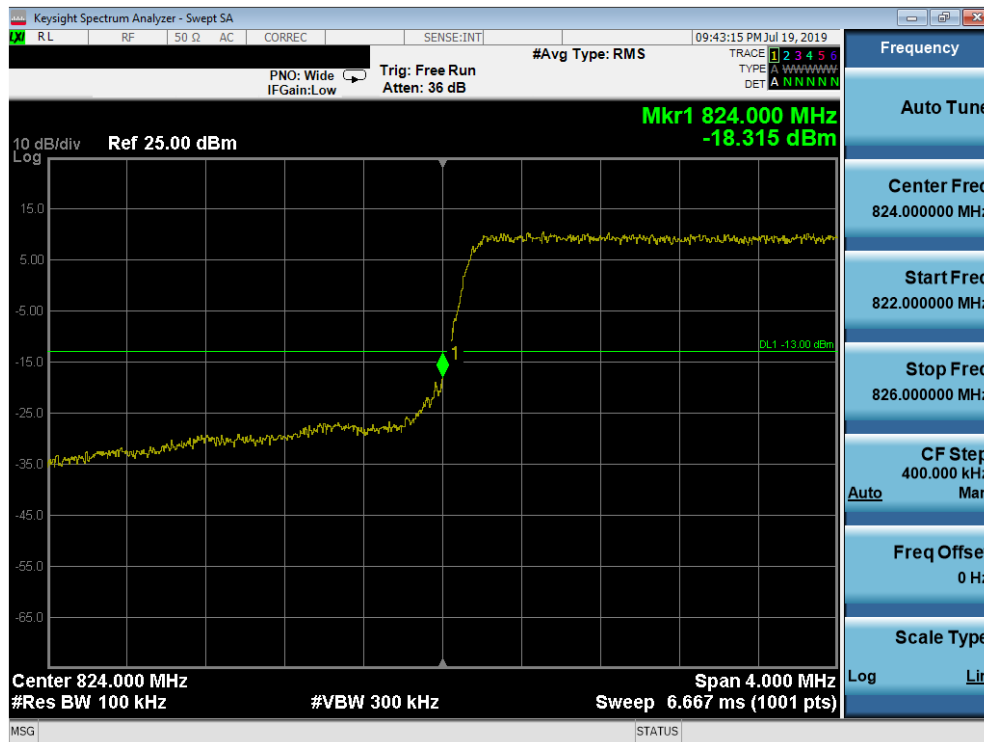


Plot 7-145. Lower Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-146. Upper Band Edge Plot (Band 5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 93 of 184

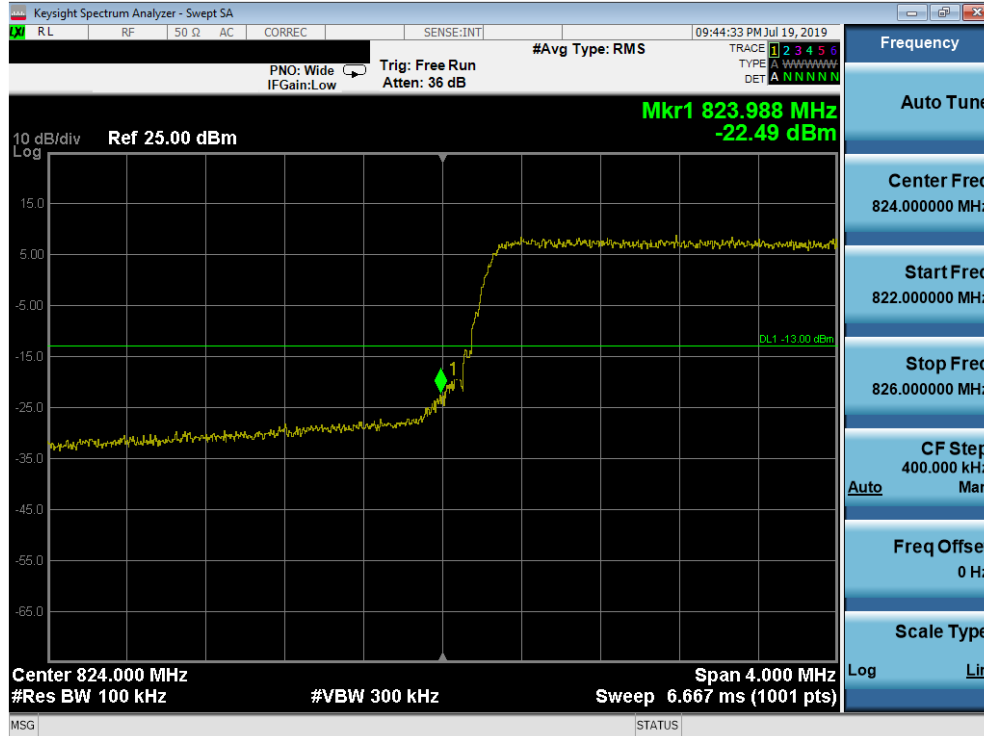


Plot 7-147. Lower Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

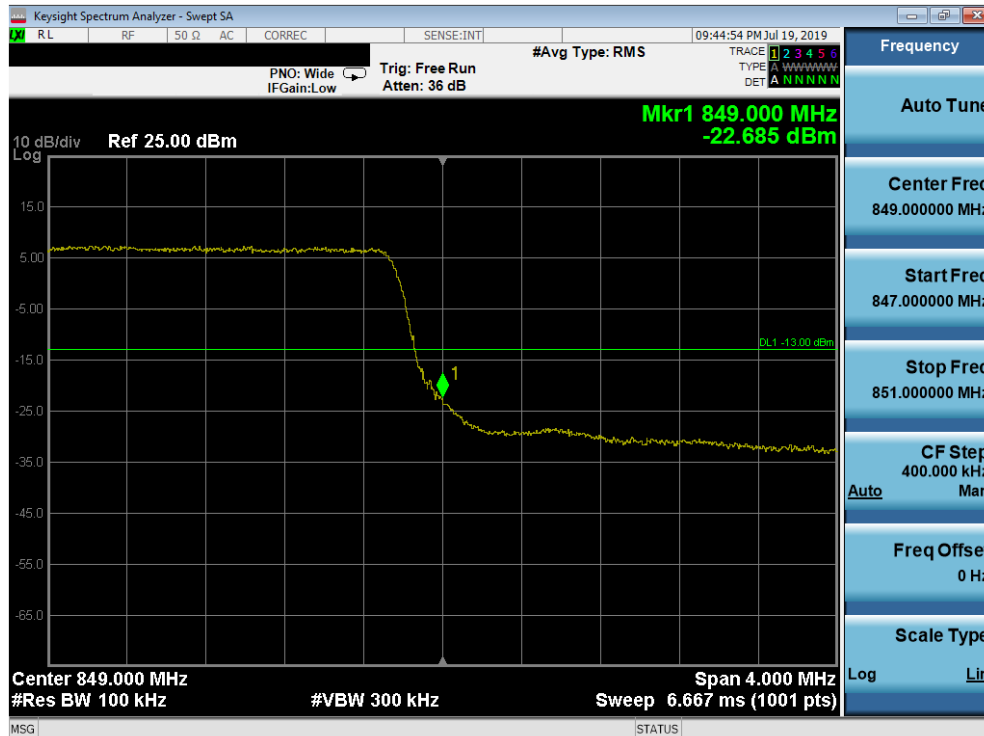


Plot 7-148. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 94 of 184

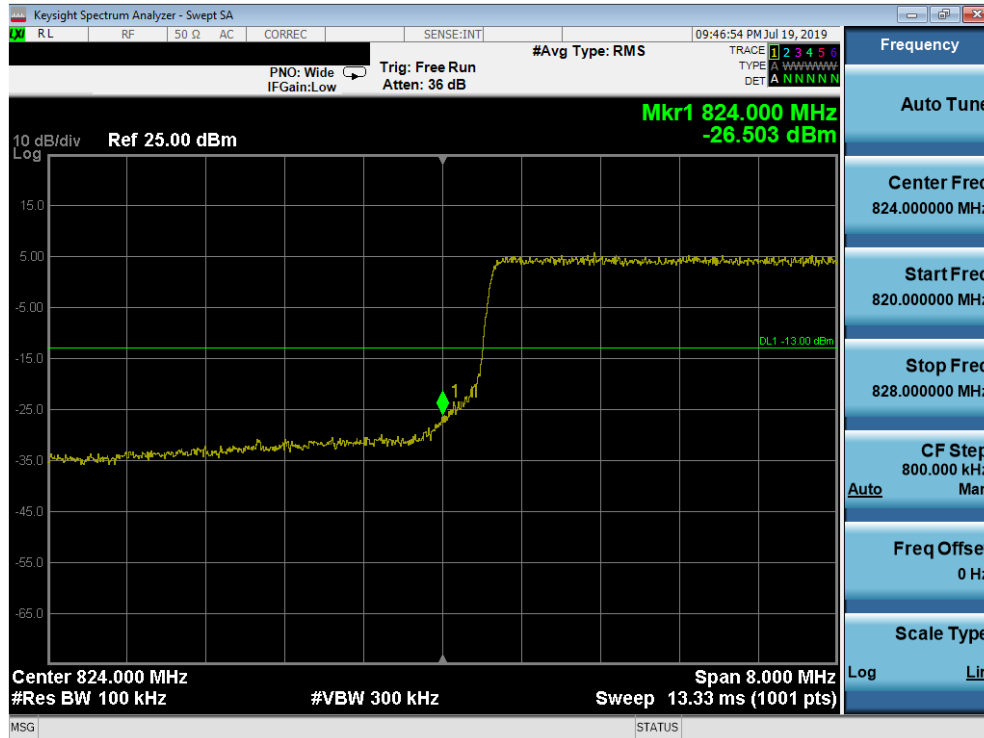


Plot 7-149. Lower Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

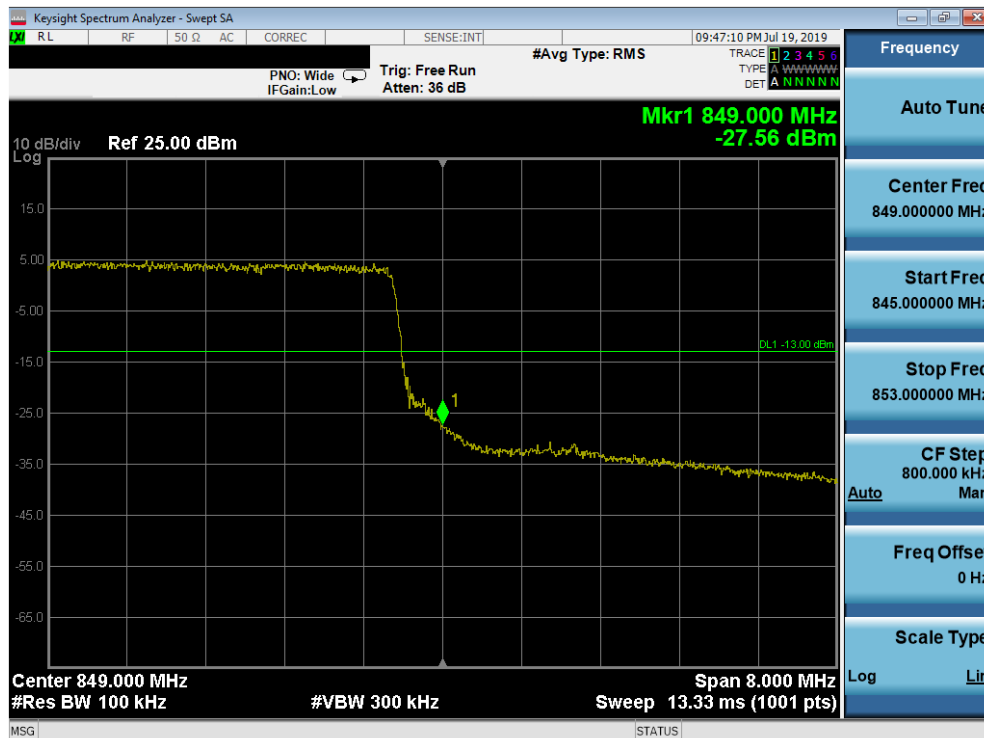


Plot 7-150. Upper Band Edge Plot (Band 5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 95 of 184



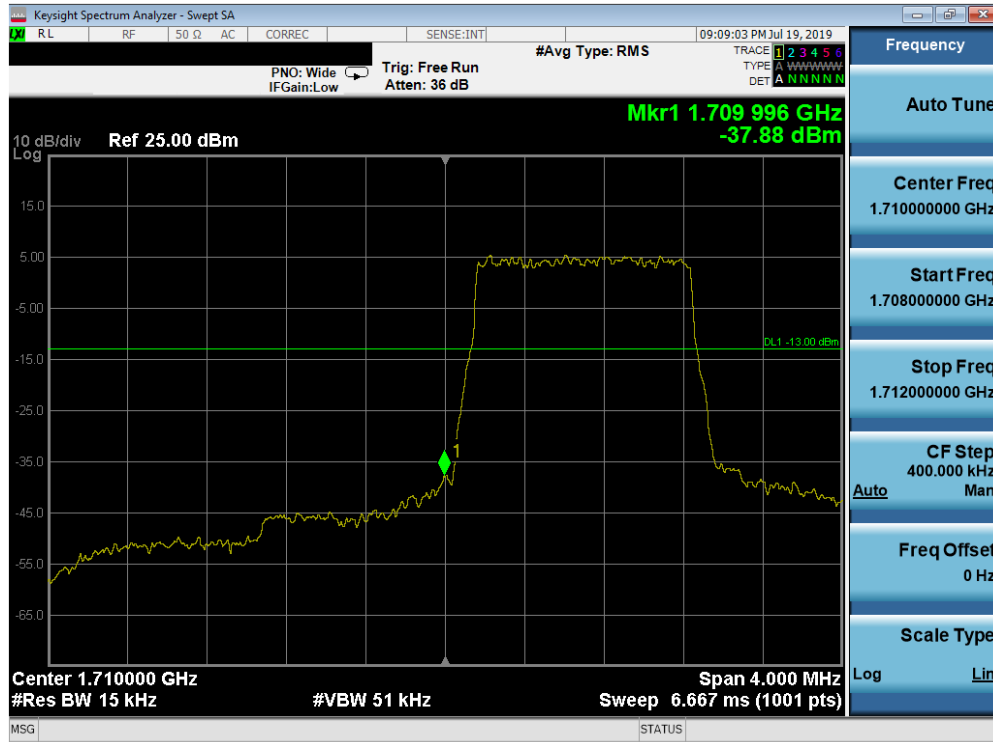
Plot 7-151. Lower Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)



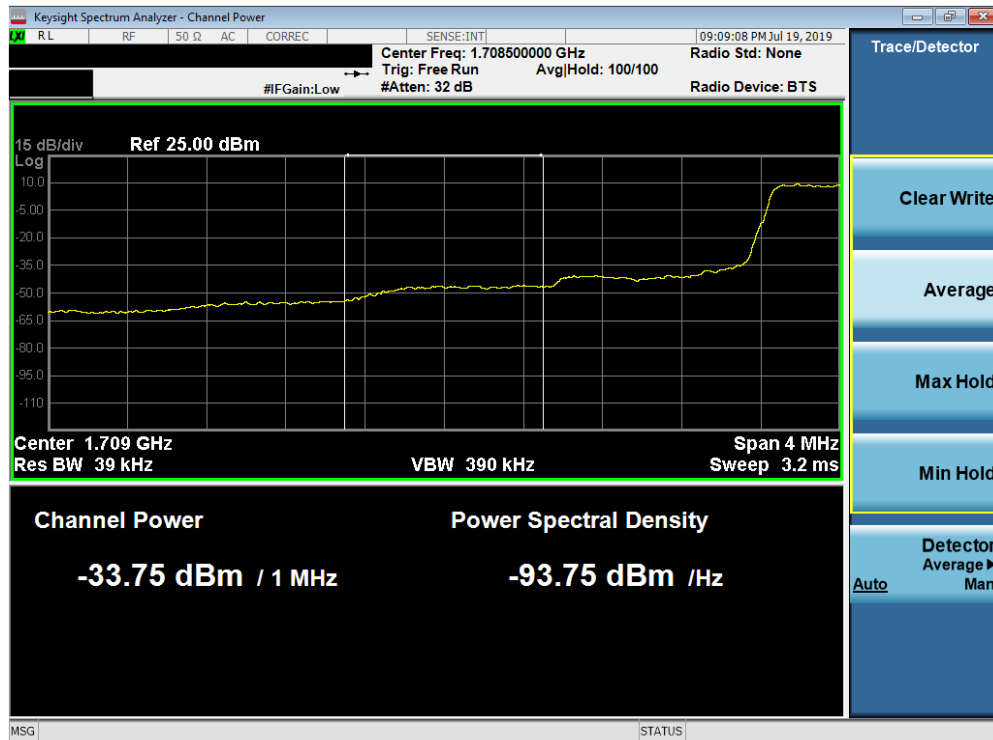
Plot 7-152. Upper Band Edge Plot (Band 5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 96 of 184

Band 66/4



Plot 7-153. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

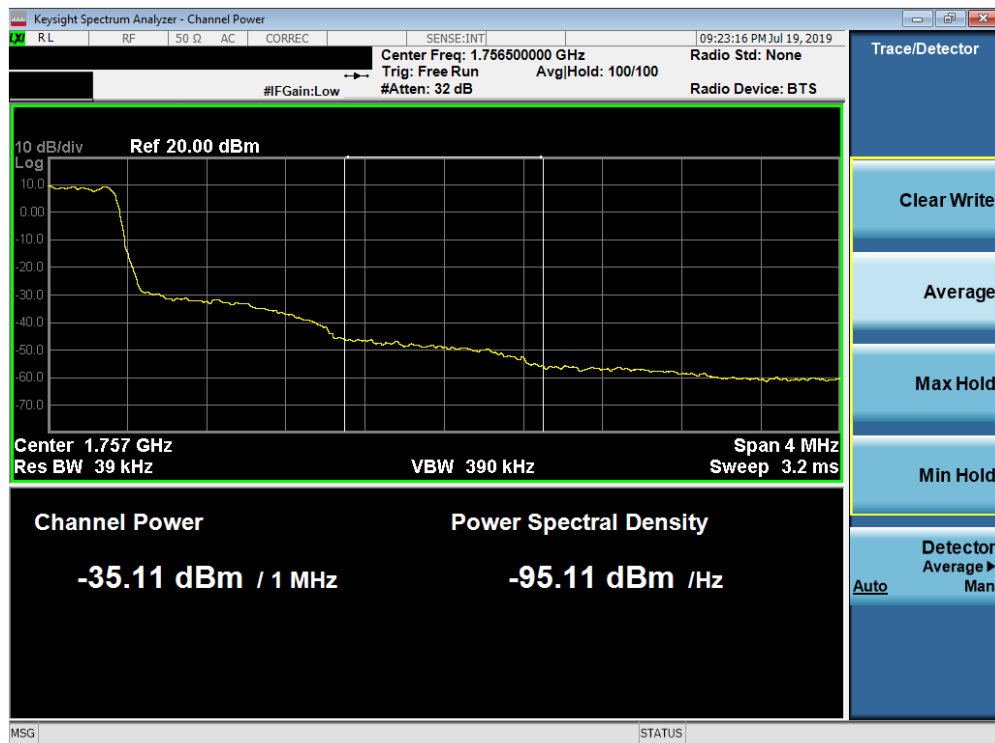


Plot 7-154. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 97 of 184



Plot 7-155. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

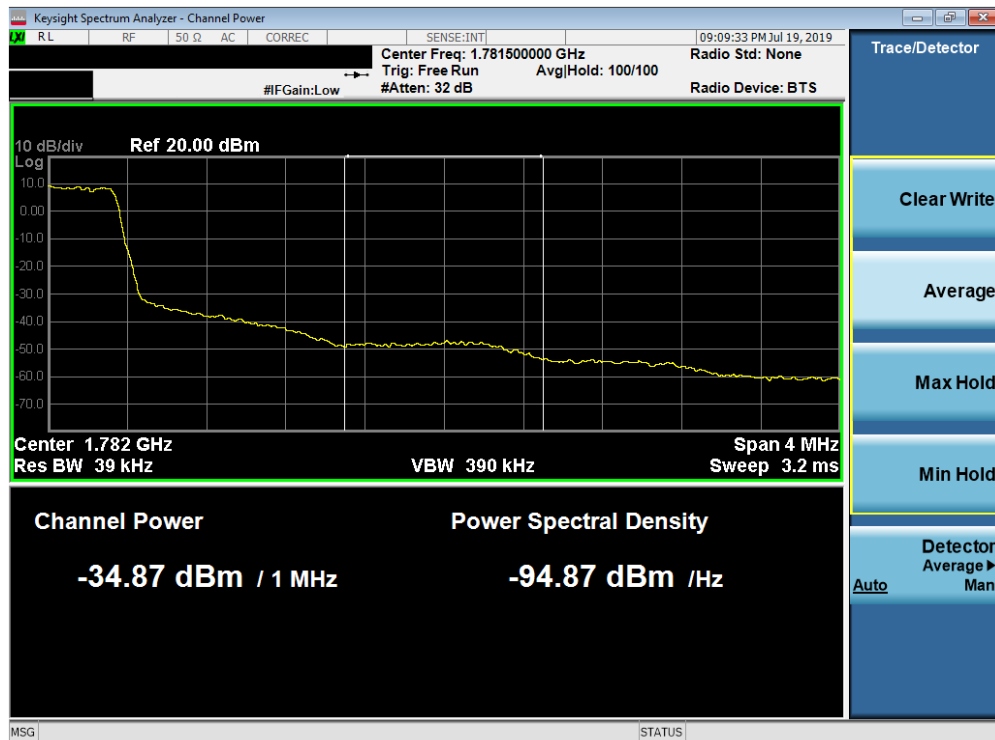


Plot 7-156. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 98 of 184

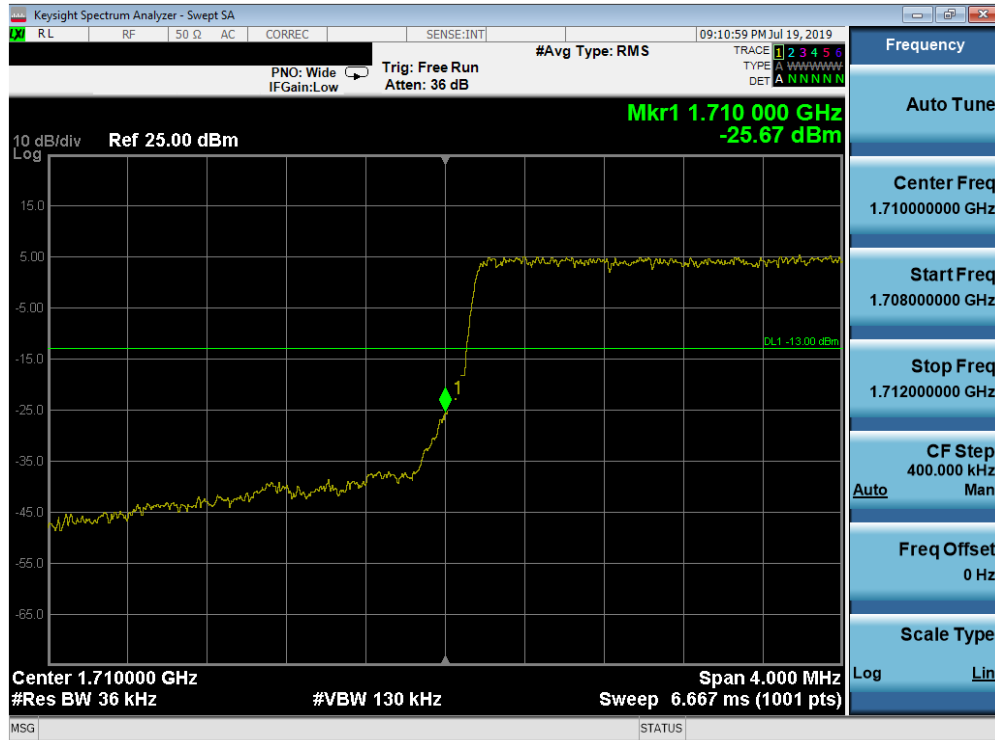


Plot 7-157. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

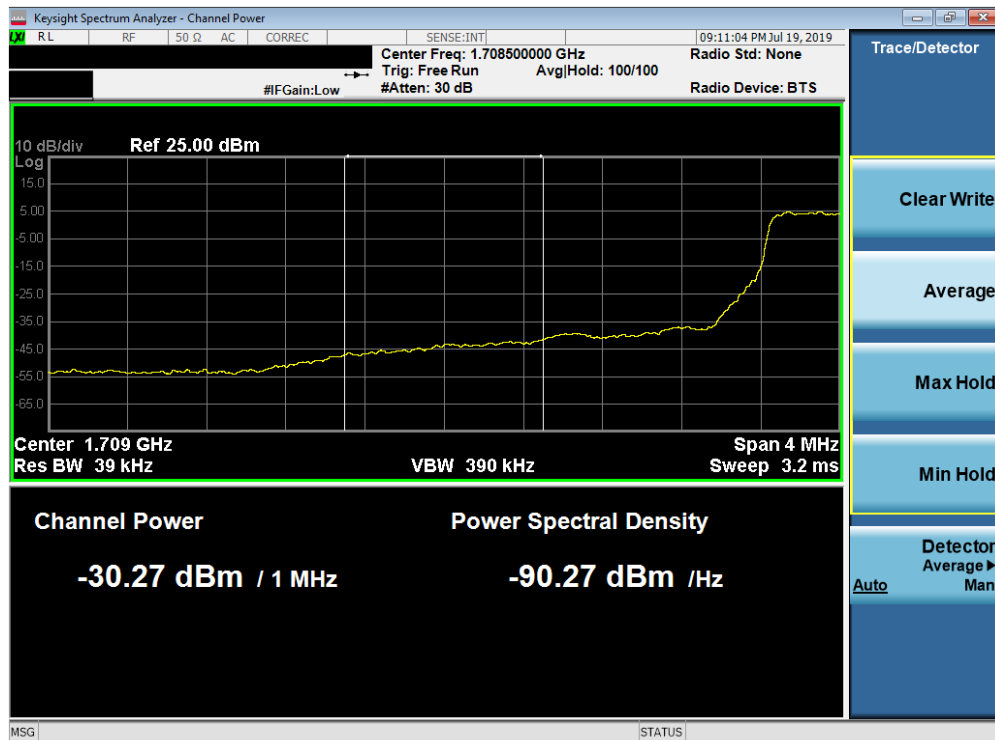


Plot 7-158. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 99 of 184



Plot 7-159. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

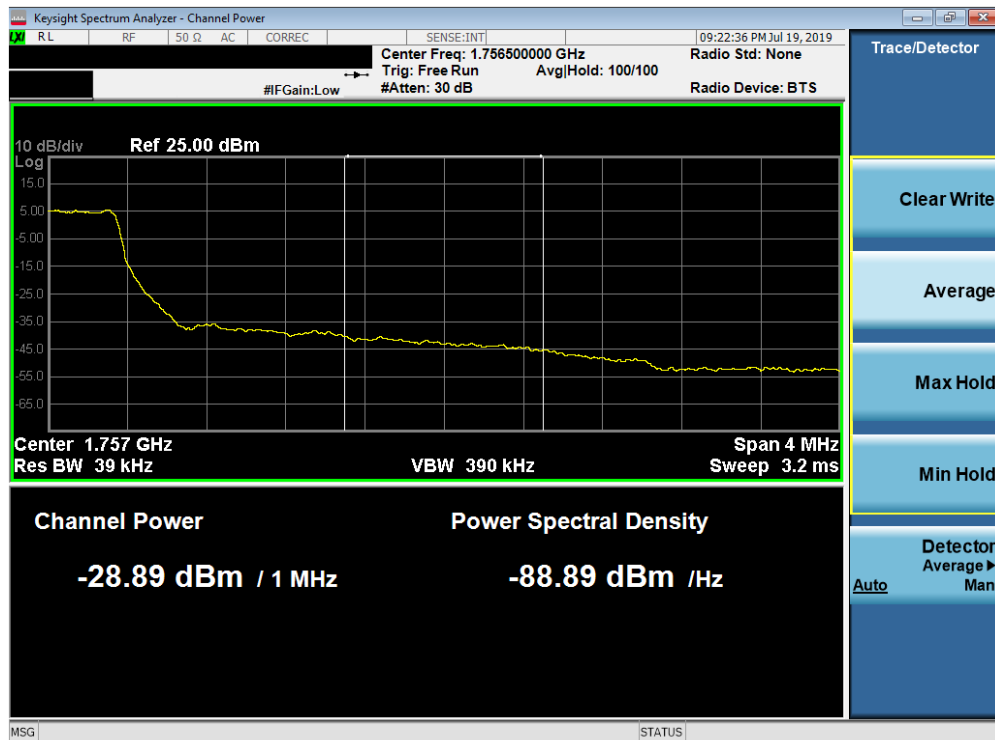


Plot 7-160. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 100 of 184



Plot 7-161. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

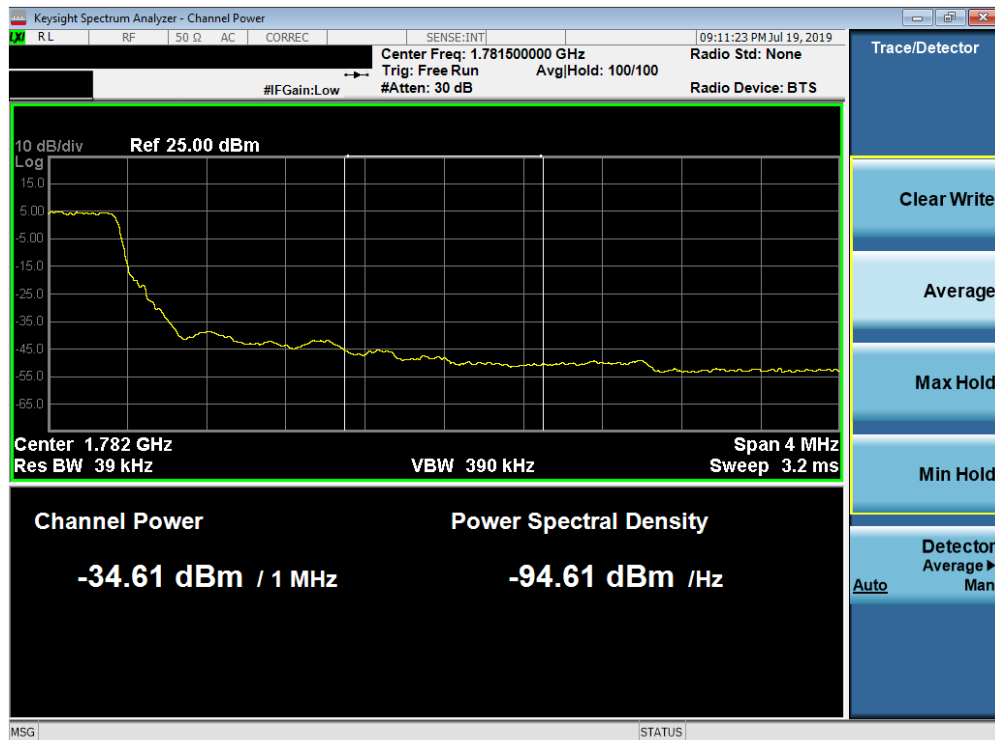


Plot 7-162. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 101 of 184

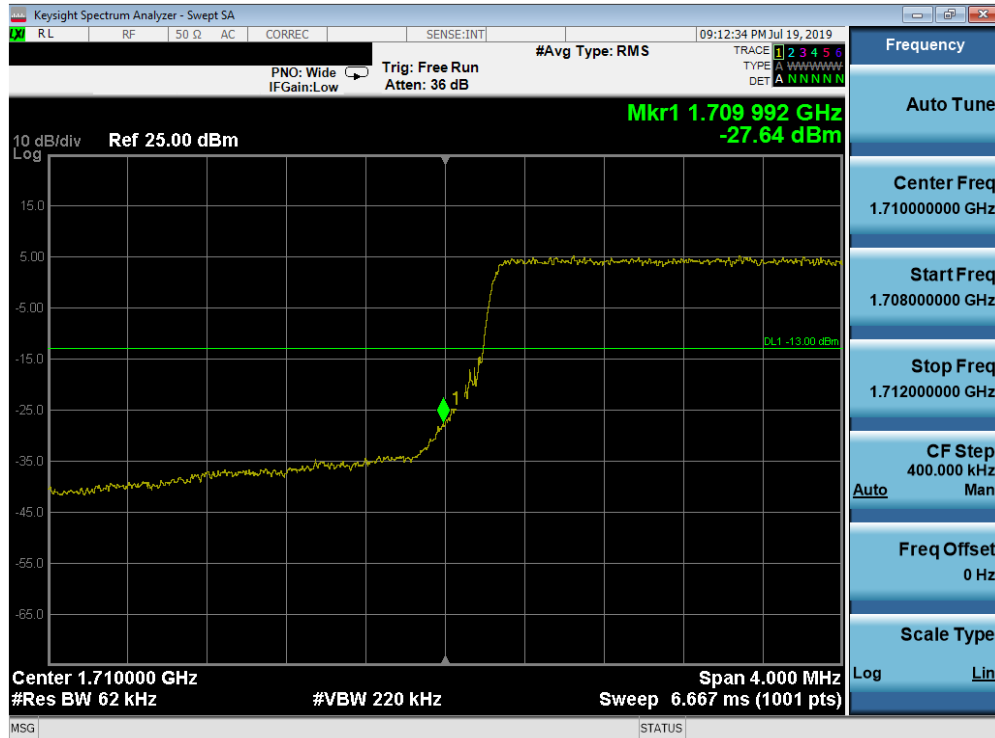


Plot 7-163. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

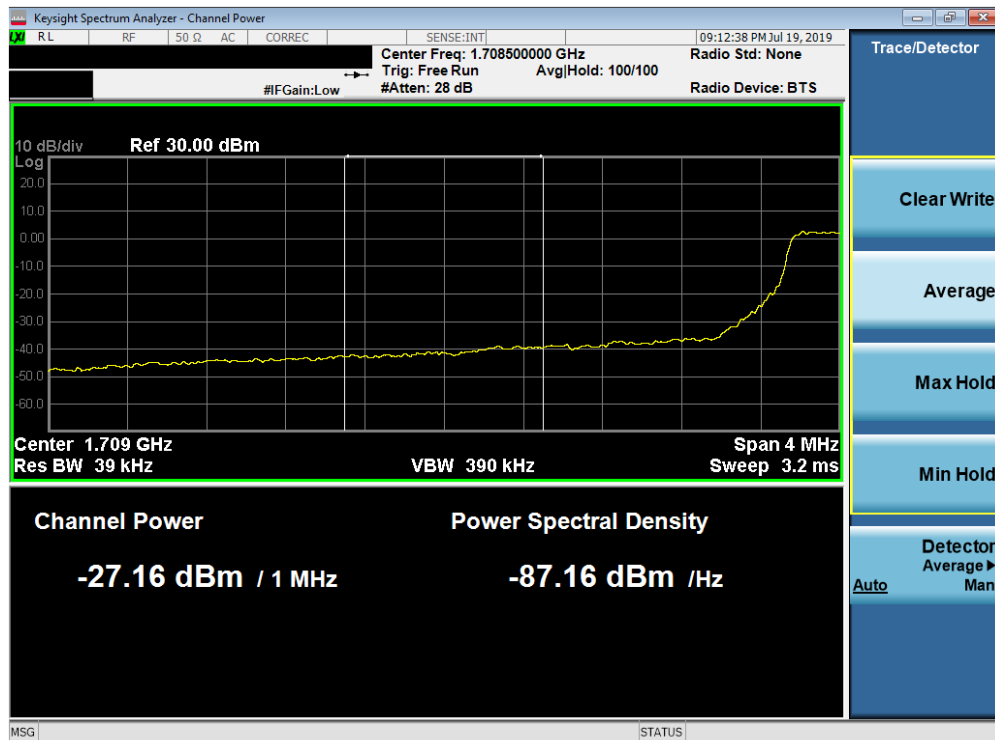


Plot 7-164. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 102 of 184

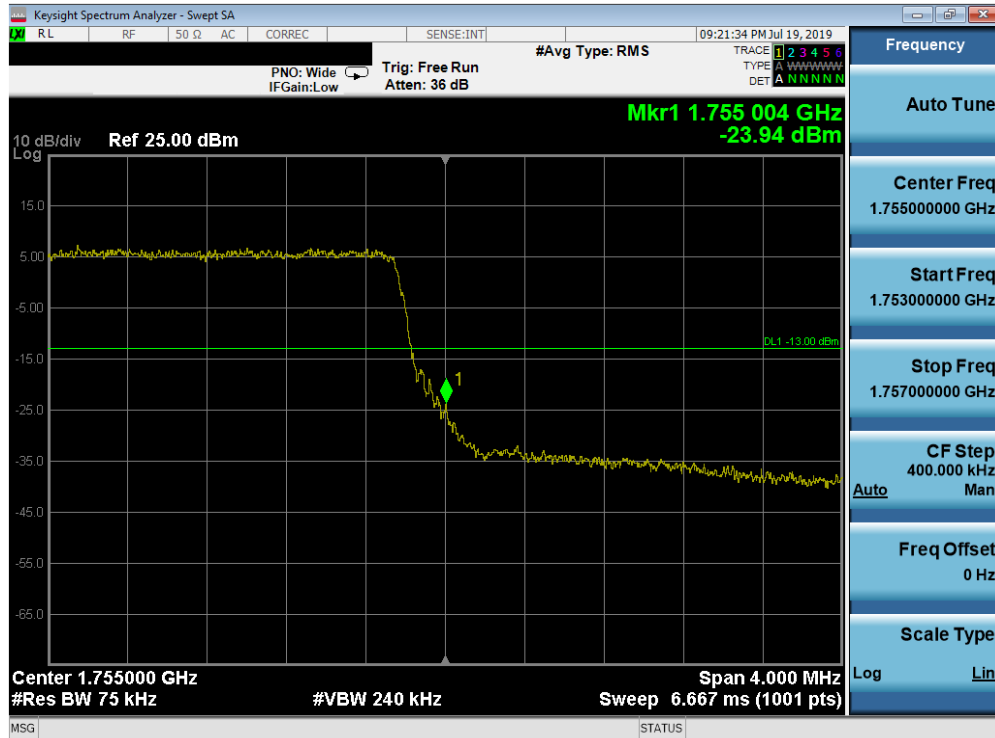


Plot 7-165. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

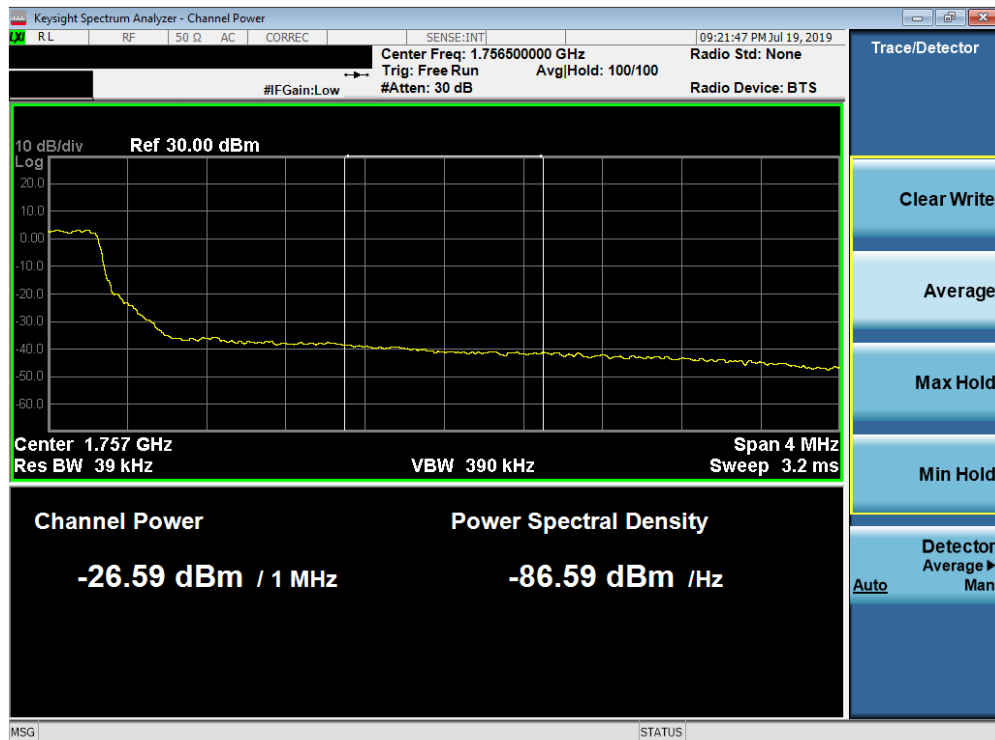


Plot 7-166. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-167. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

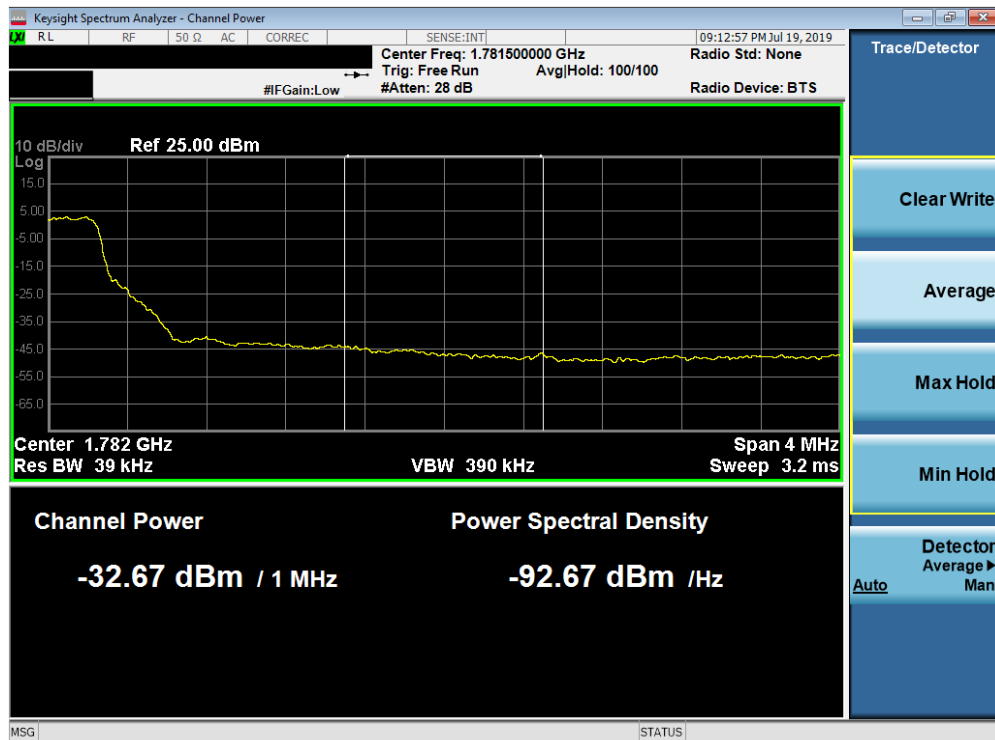


Plot 7-168. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 104 of 184

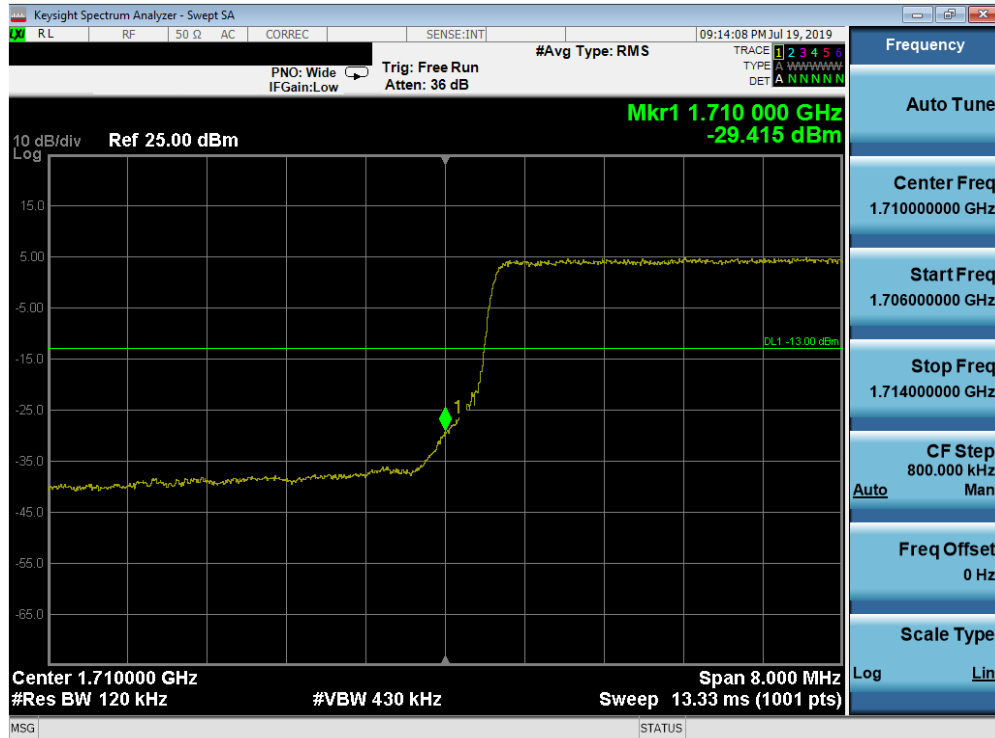


Plot 7-169. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

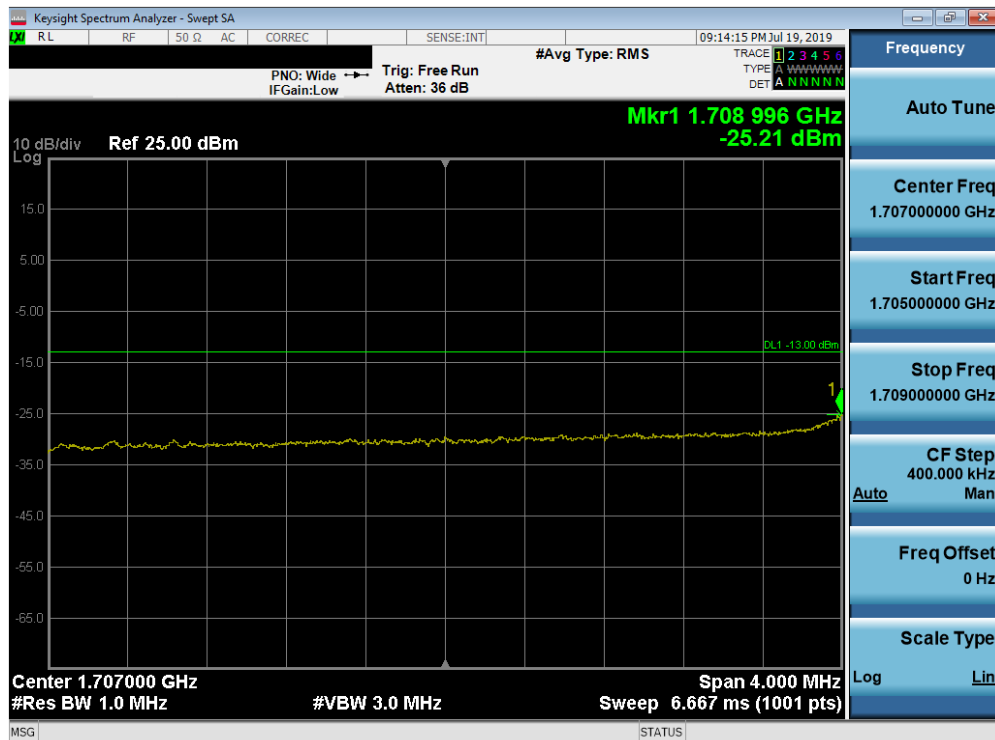


Plot 7-170. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 105 of 184

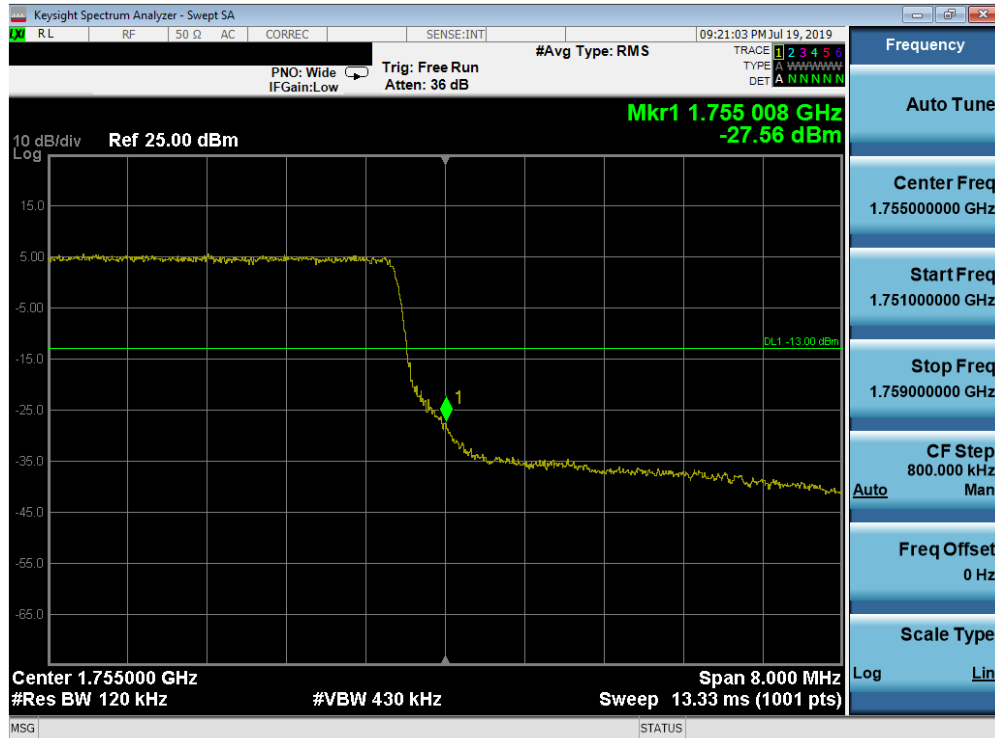


Plot 7-171. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

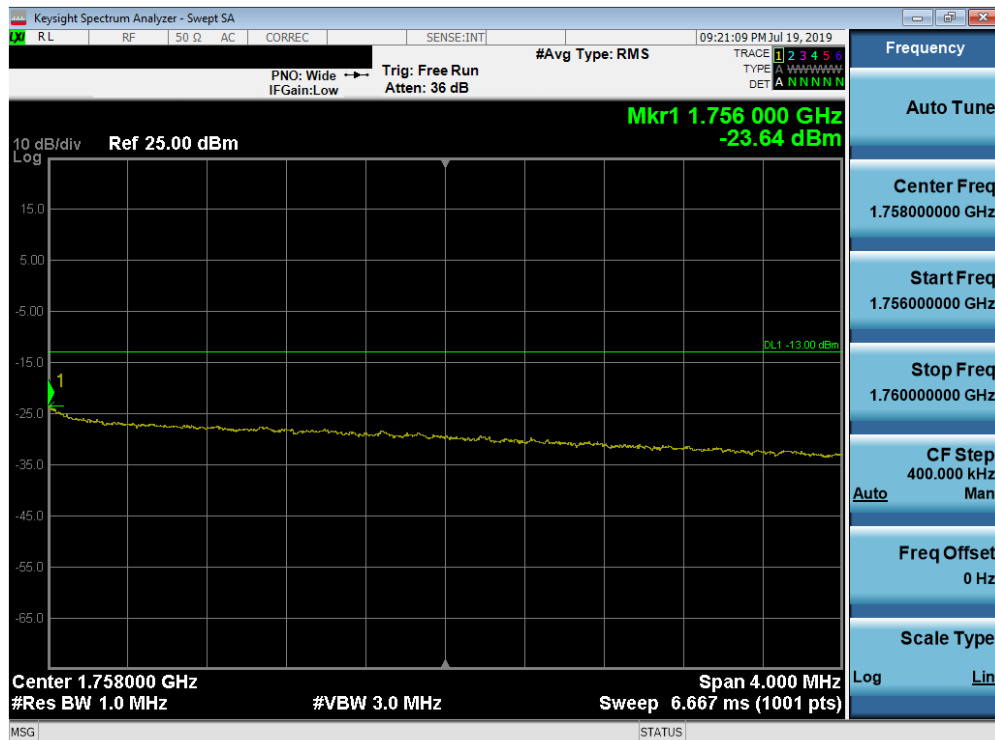


Plot 7-172. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 106 of 184



Plot 7-173. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

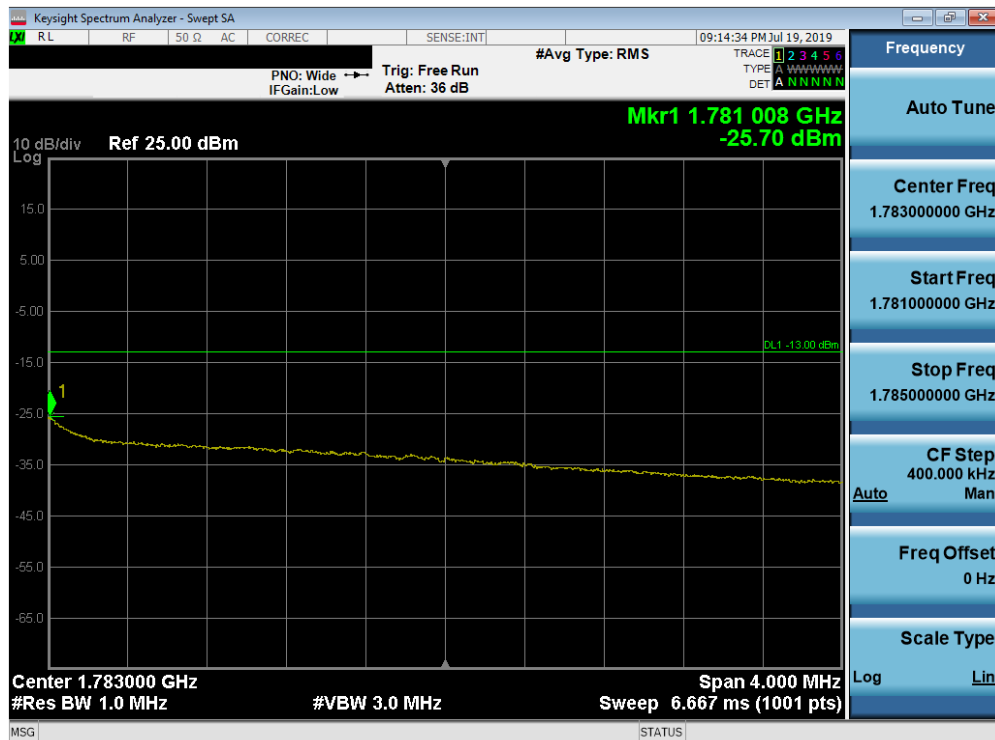


Plot 7-174. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 107 of 184

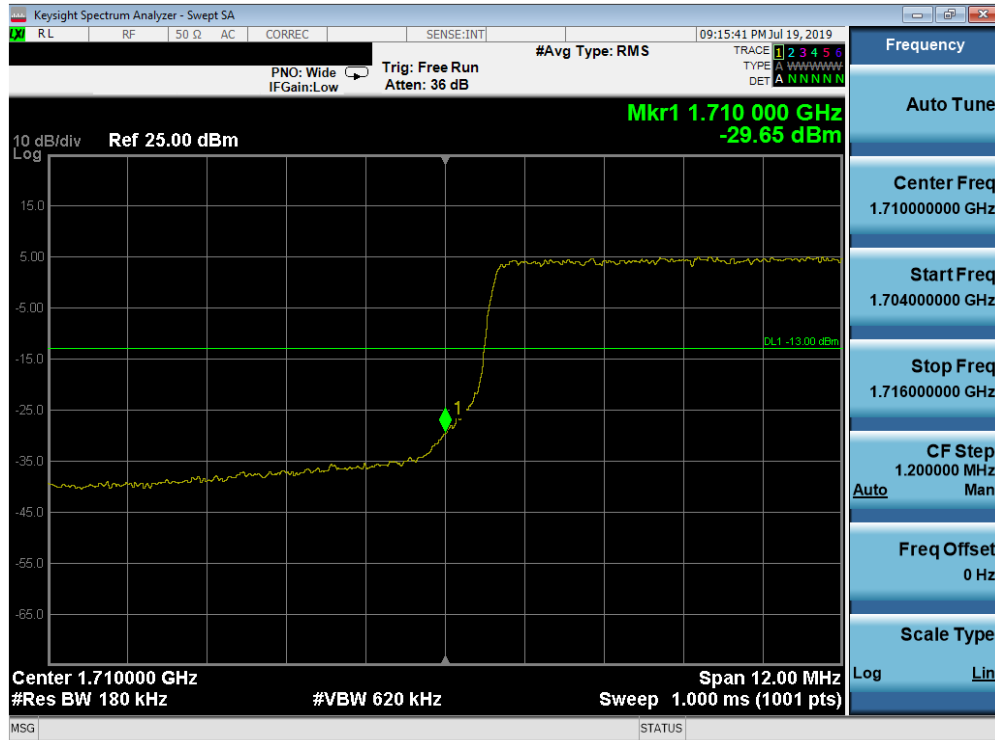


Plot 7-175. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

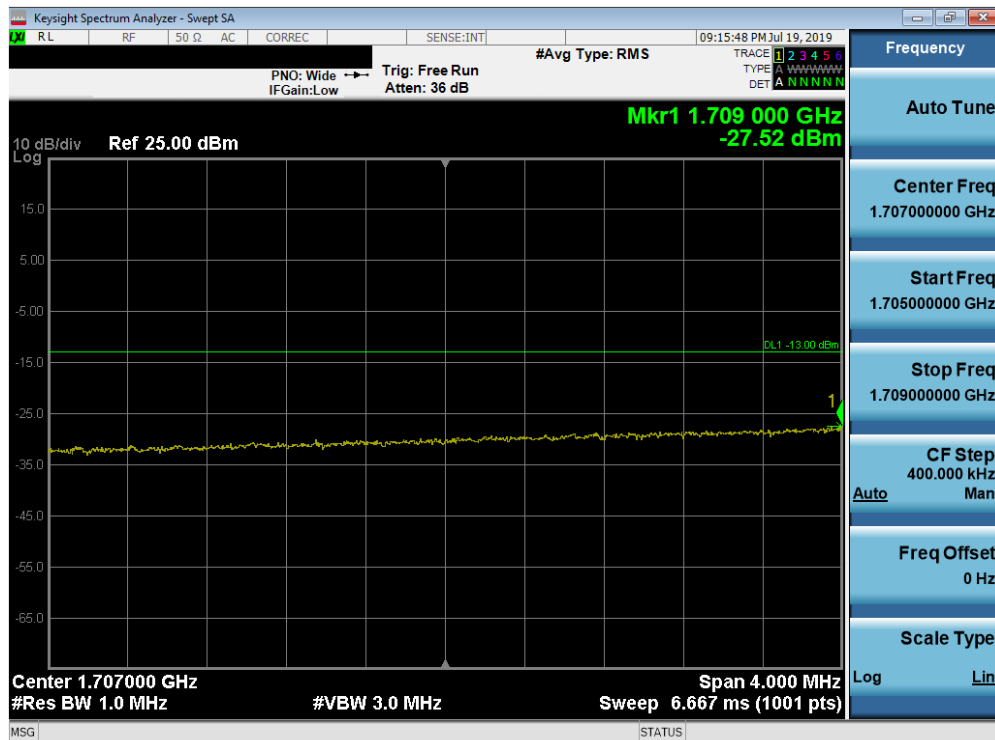


Plot 7-176. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 108 of 184



Plot 7-177. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

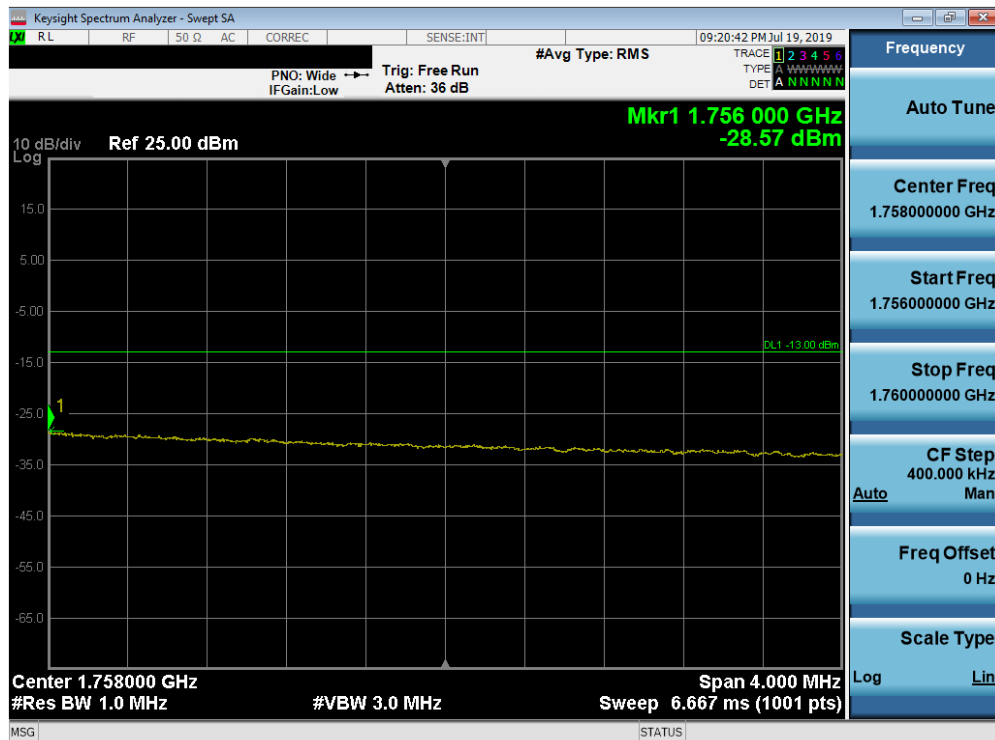


Plot 7-178. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 109 of 184



Plot 7-179. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

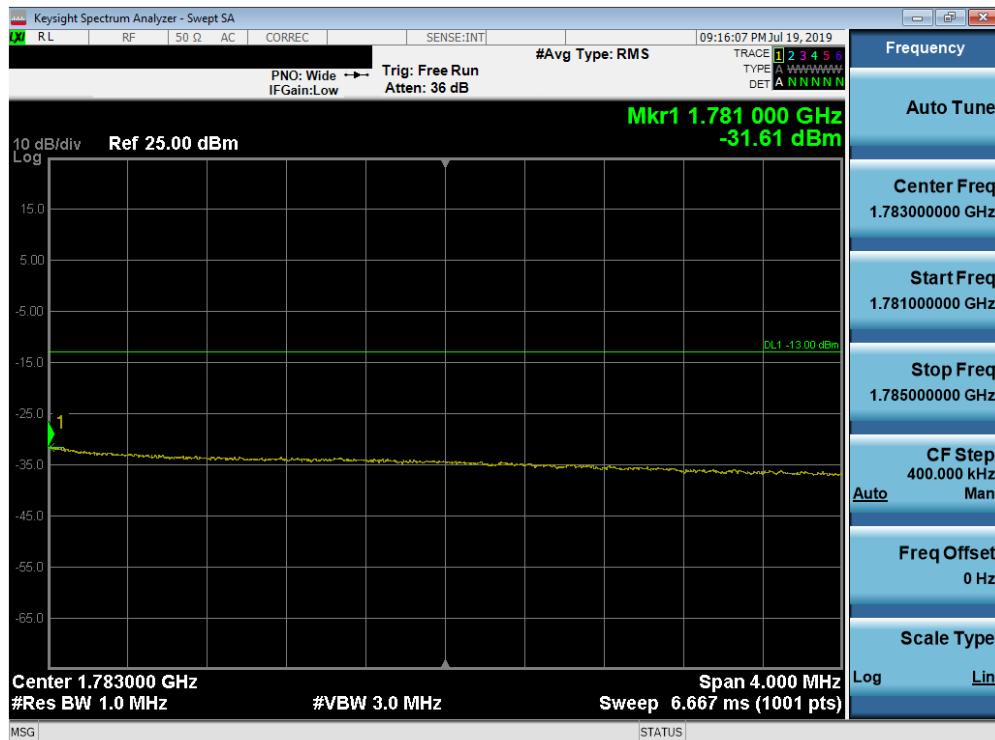


Plot 7-180. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 110 of 184

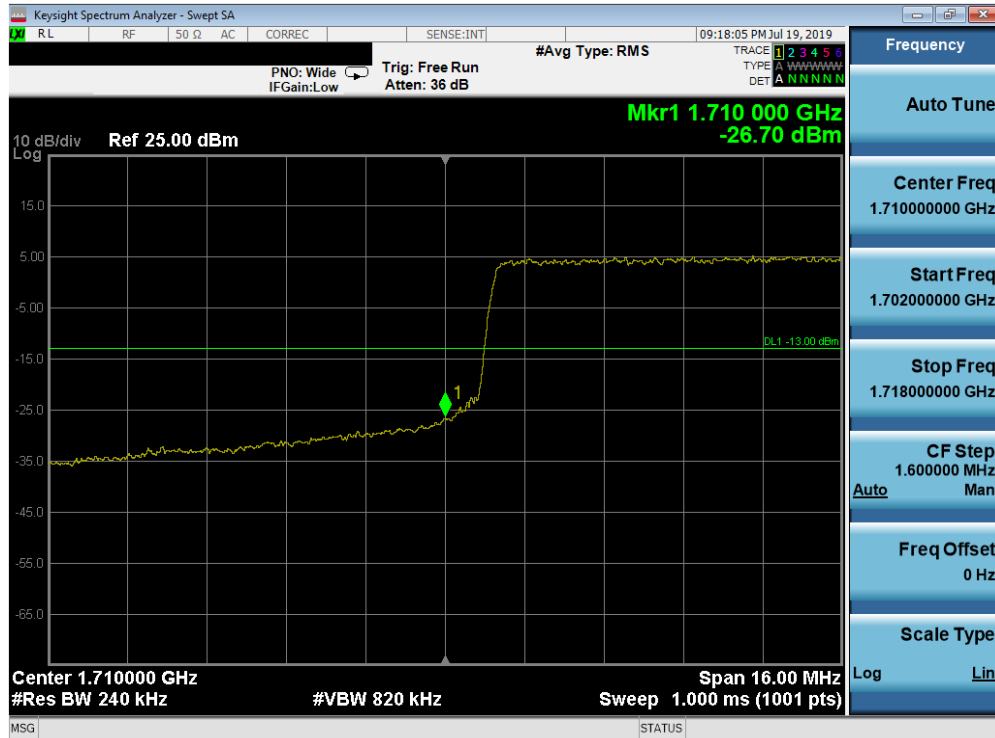


Plot 7-181. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

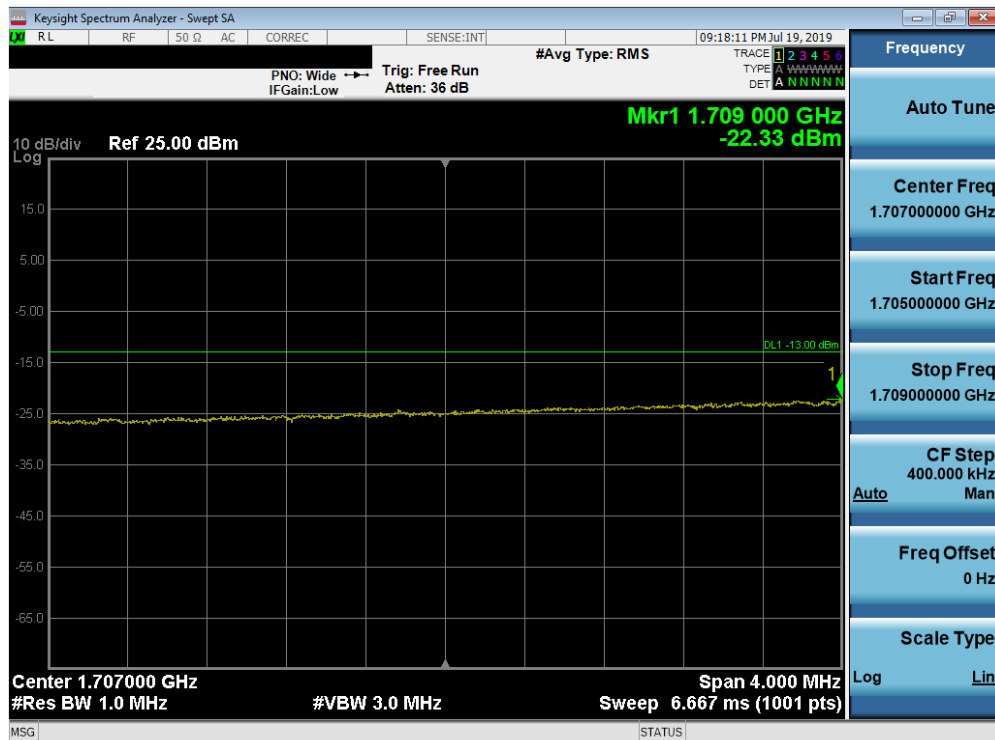


Plot 7-182. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 111 of 184

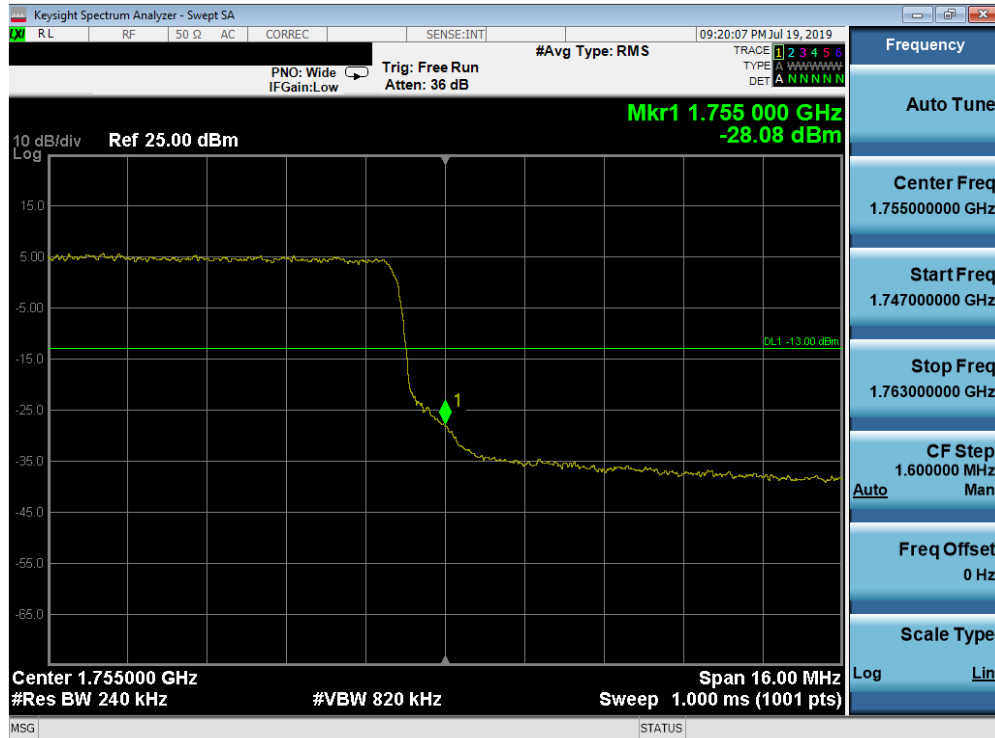


Plot 7-183. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

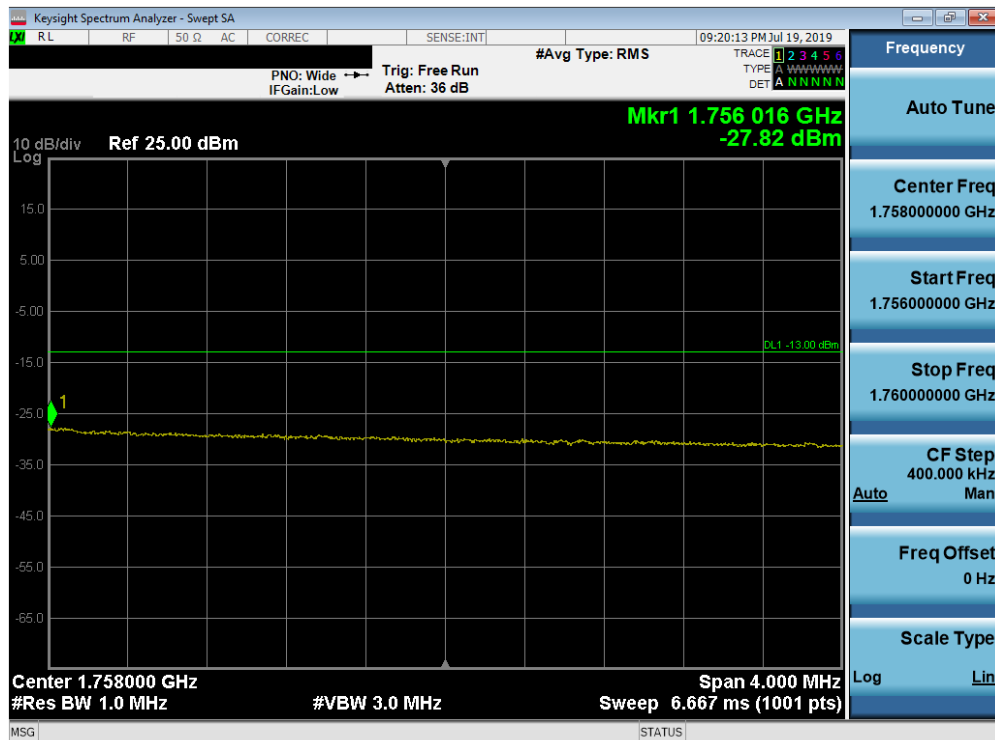


Plot 7-184. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-185. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

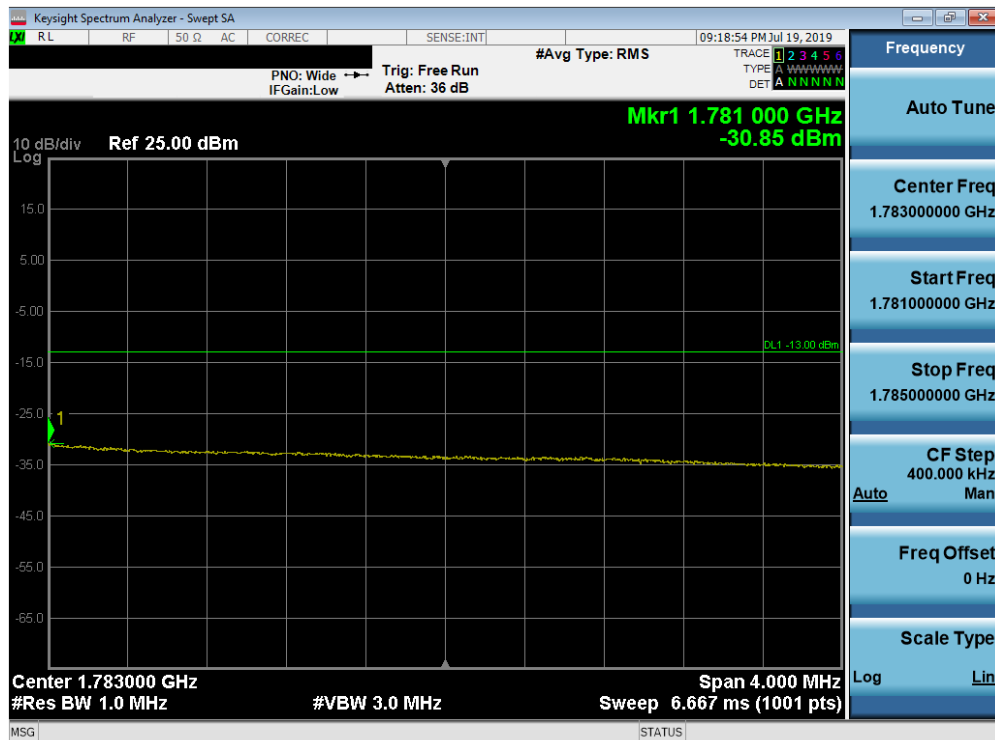


Plot 7-186. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 113 of 184



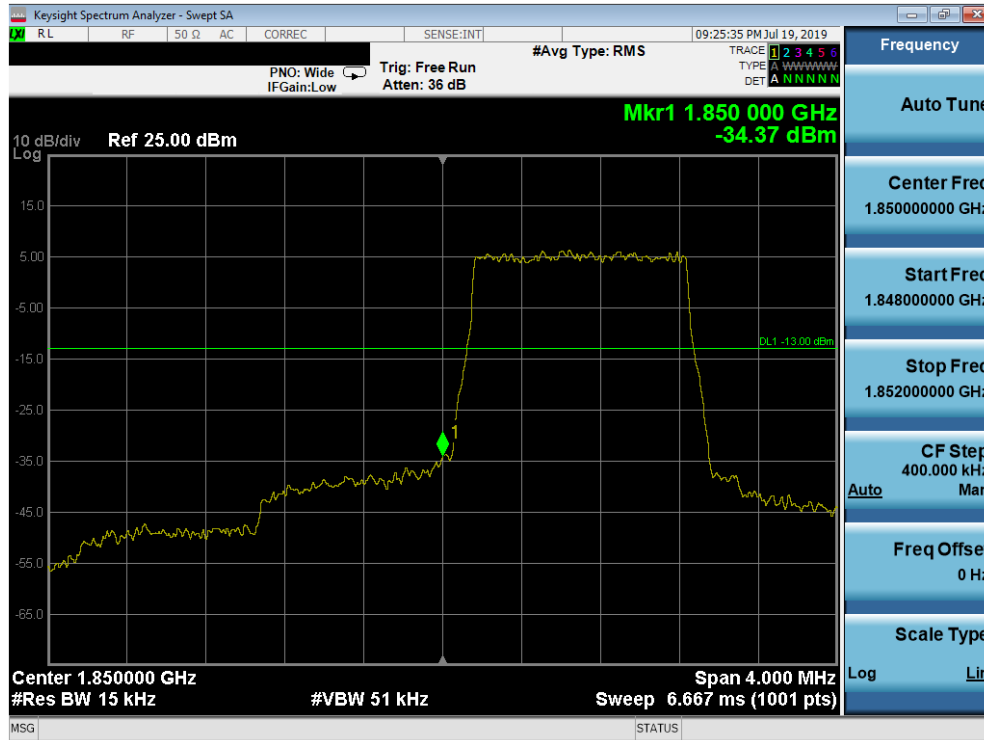
Plot 7-187. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



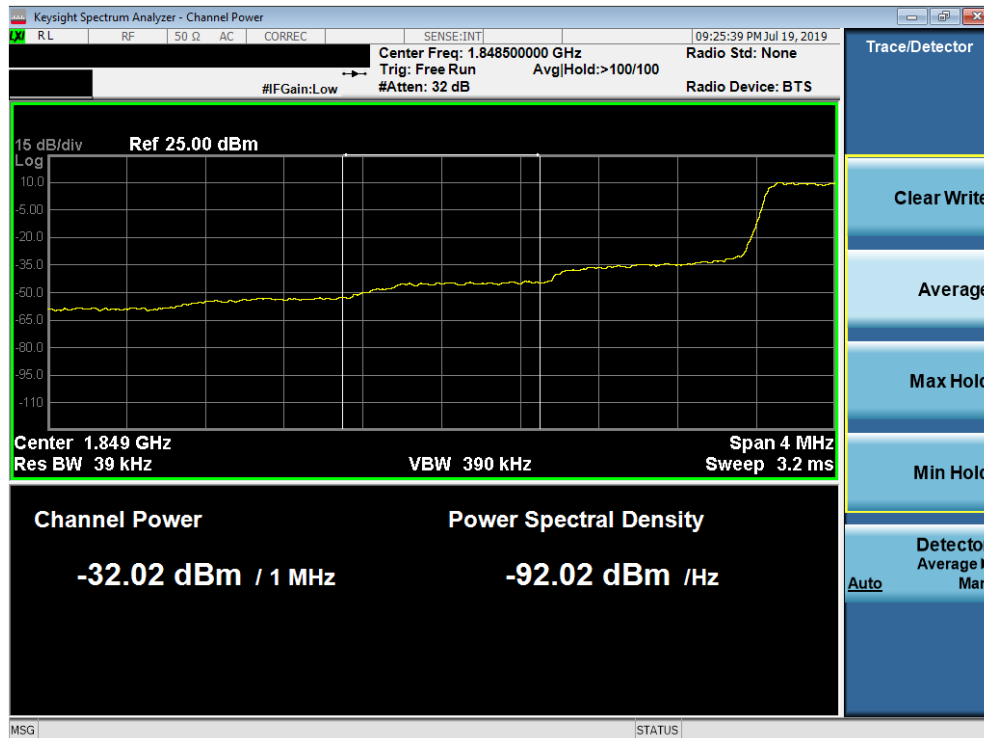
Plot 7-188. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 114 of 184

Band 2



Plot 7-189. Lower Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

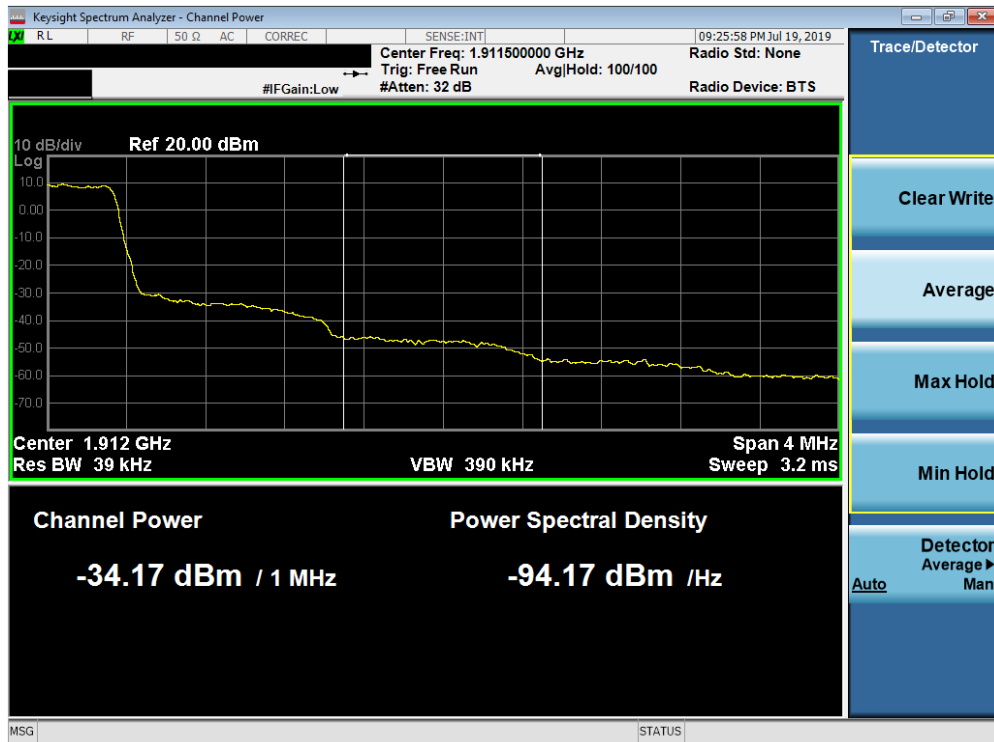


Plot 7-190. Lower Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 115 of 184

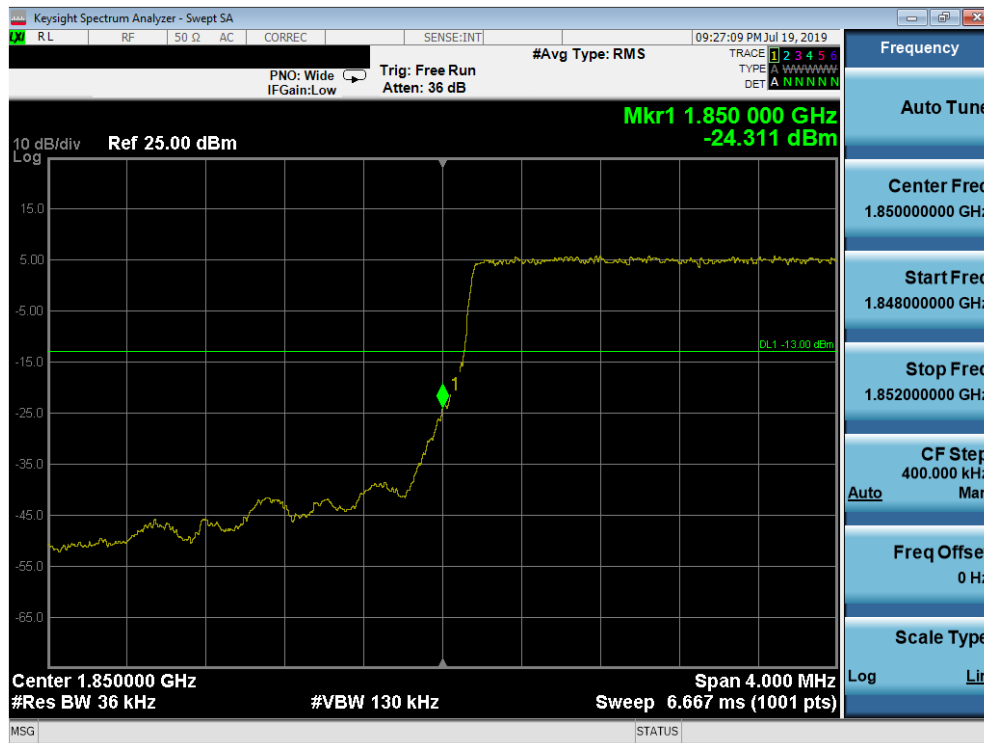


Plot 7-191. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

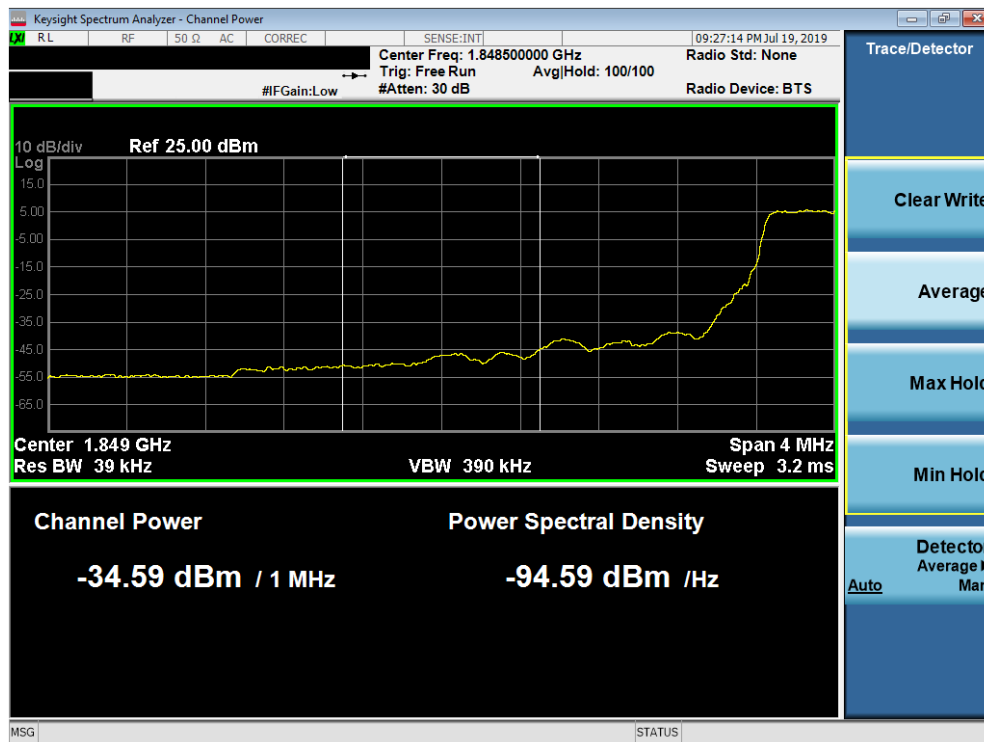


Plot 7-192. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 116 of 184



Plot 7-193. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

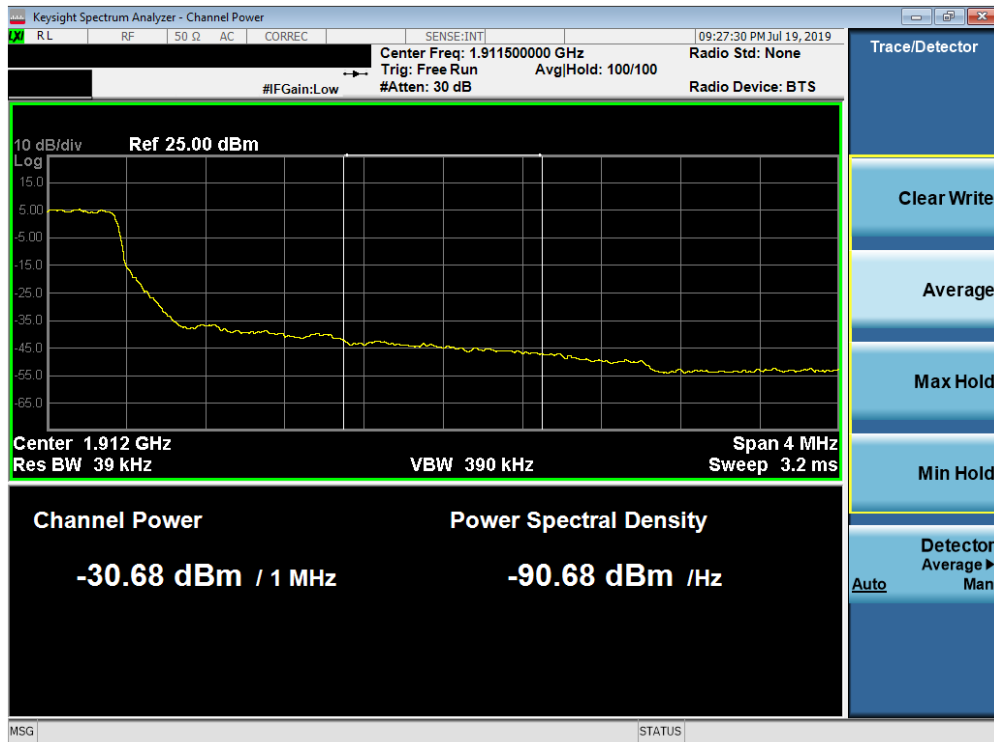


Plot 7-194. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 117 of 184

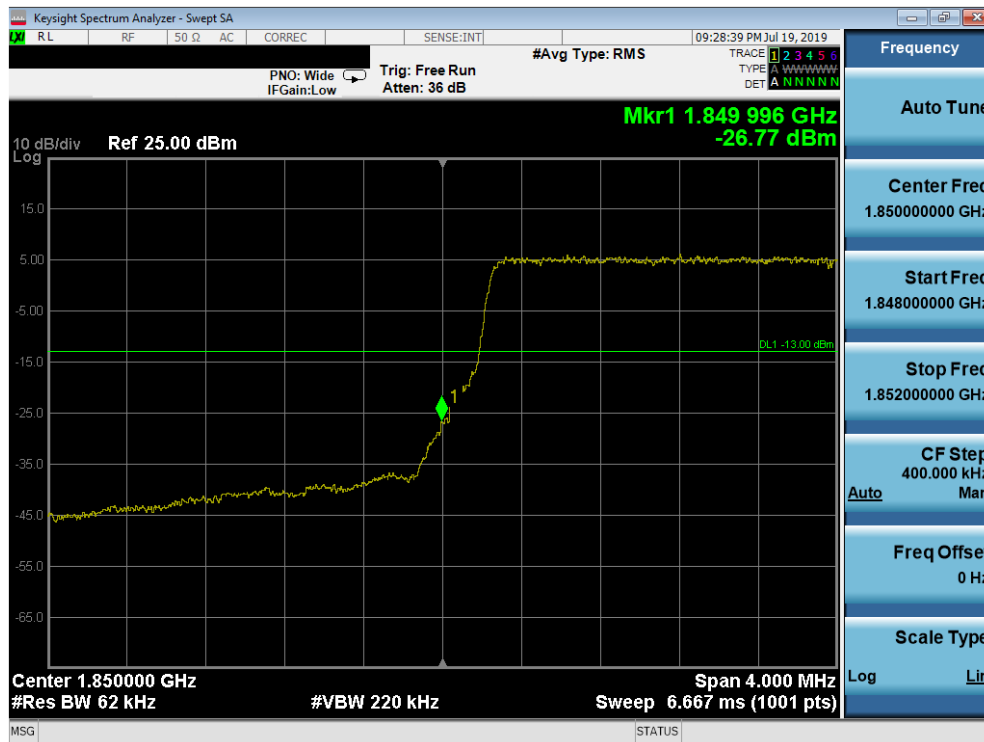


Plot 7-195. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

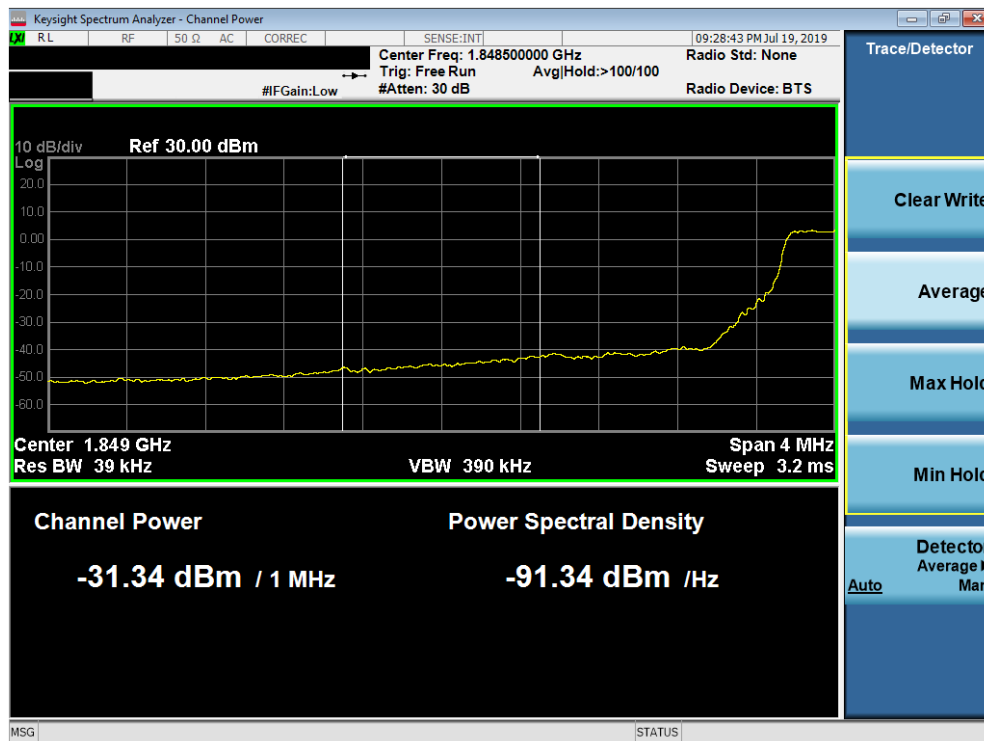


Plot 7-196. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 118 of 184



Plot 7-197. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

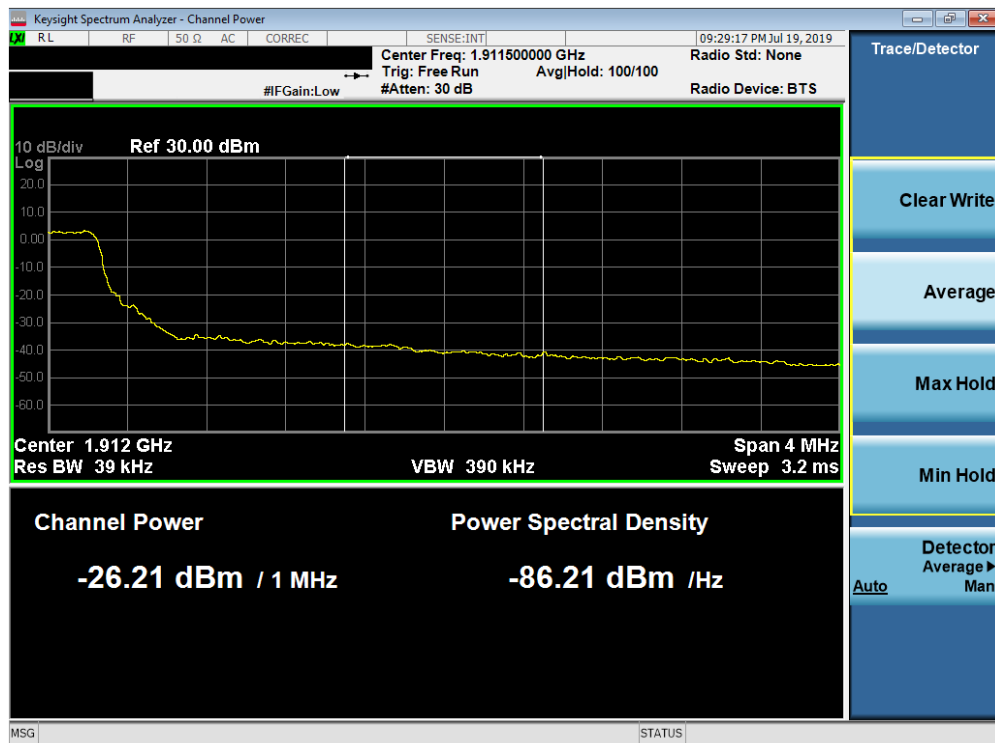


Plot 7-198. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 119 of 184

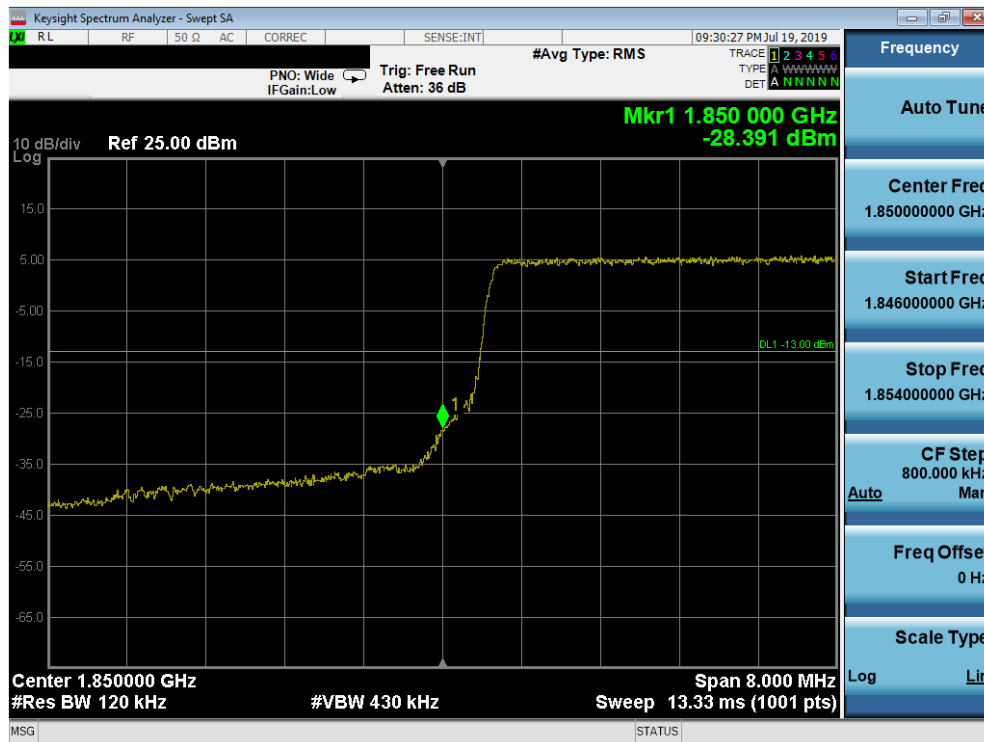


Plot 7-199. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

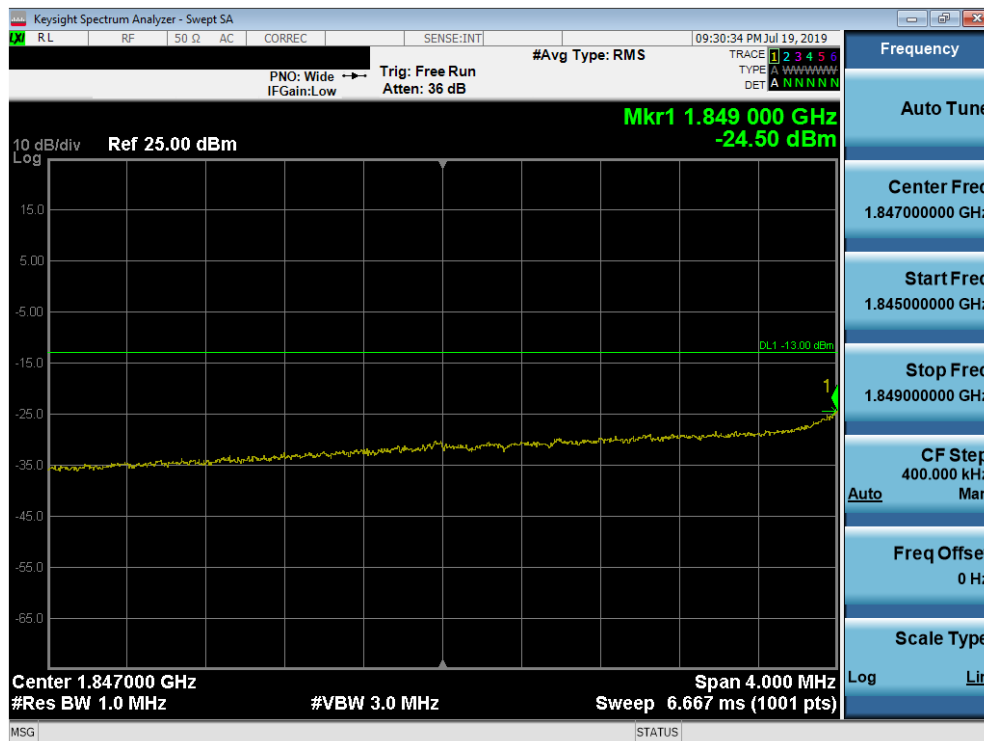


Plot 7-200. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 120 of 184



Plot 7-201. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-202. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 121 of 184

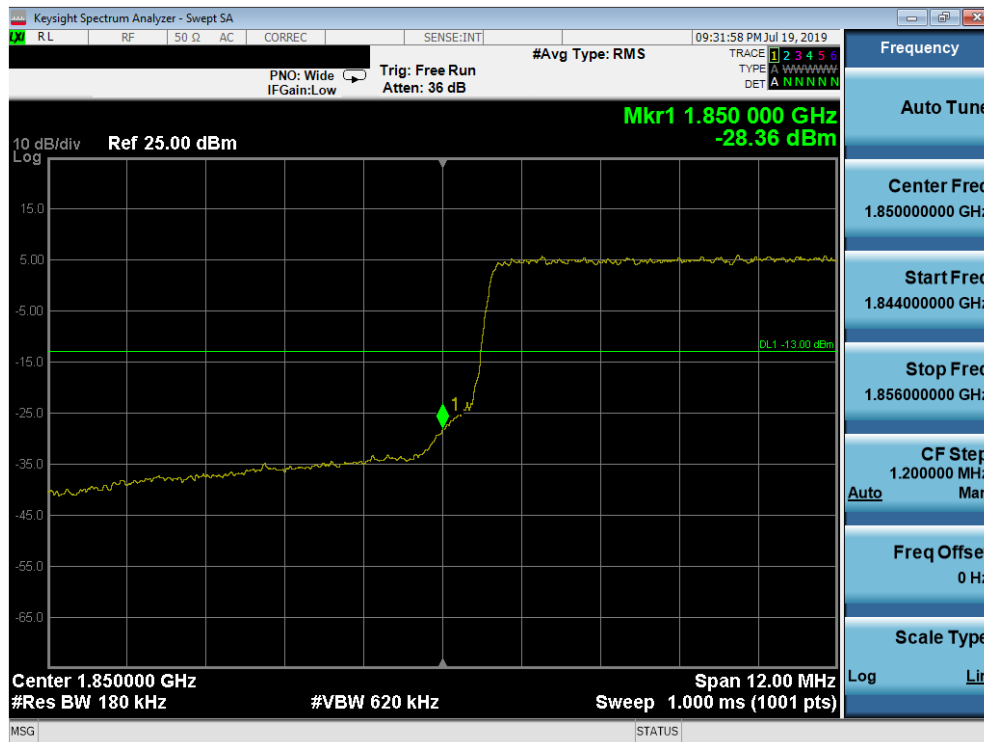


Plot 7-203. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

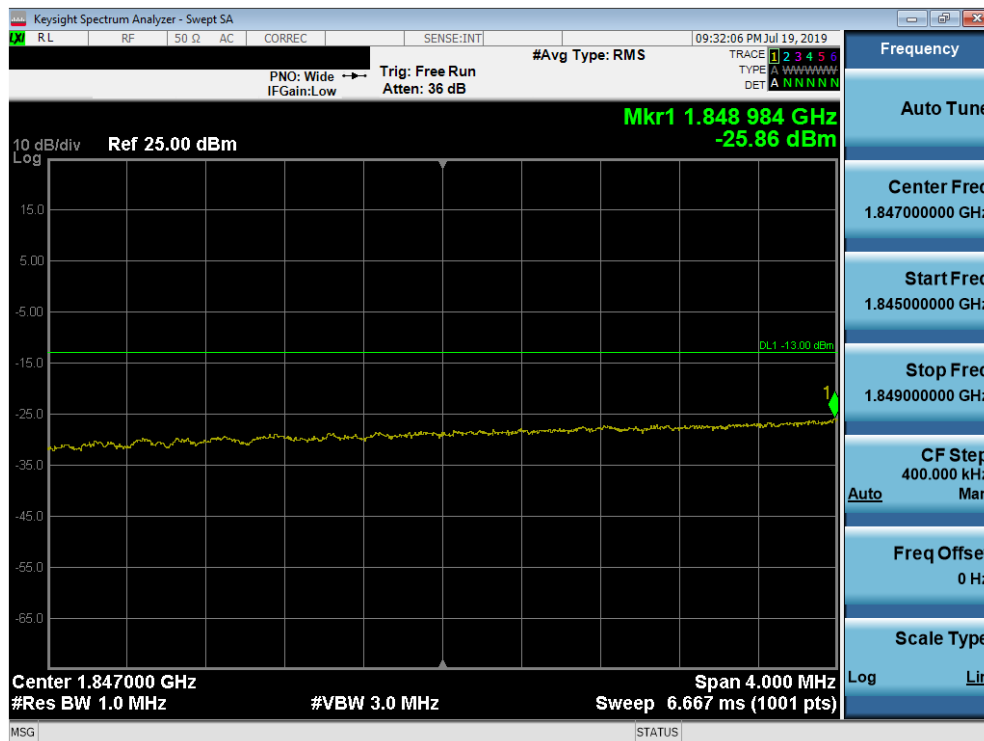


Plot 7-204. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 122 of 184



Plot 7-205. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

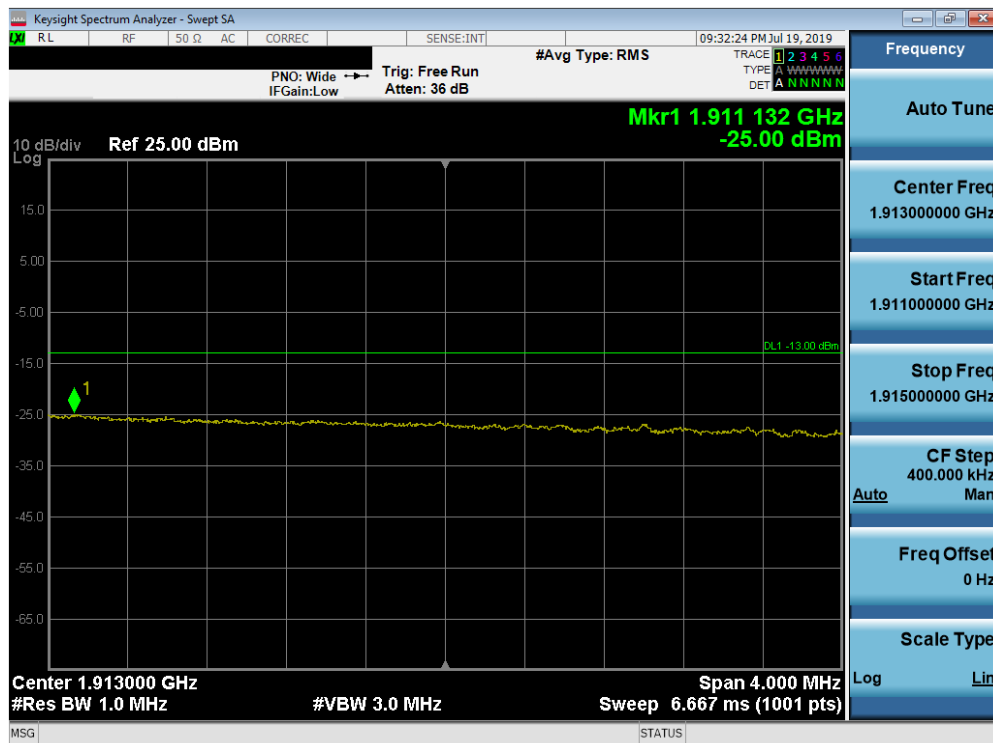


Plot 7-206. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 123 of 184

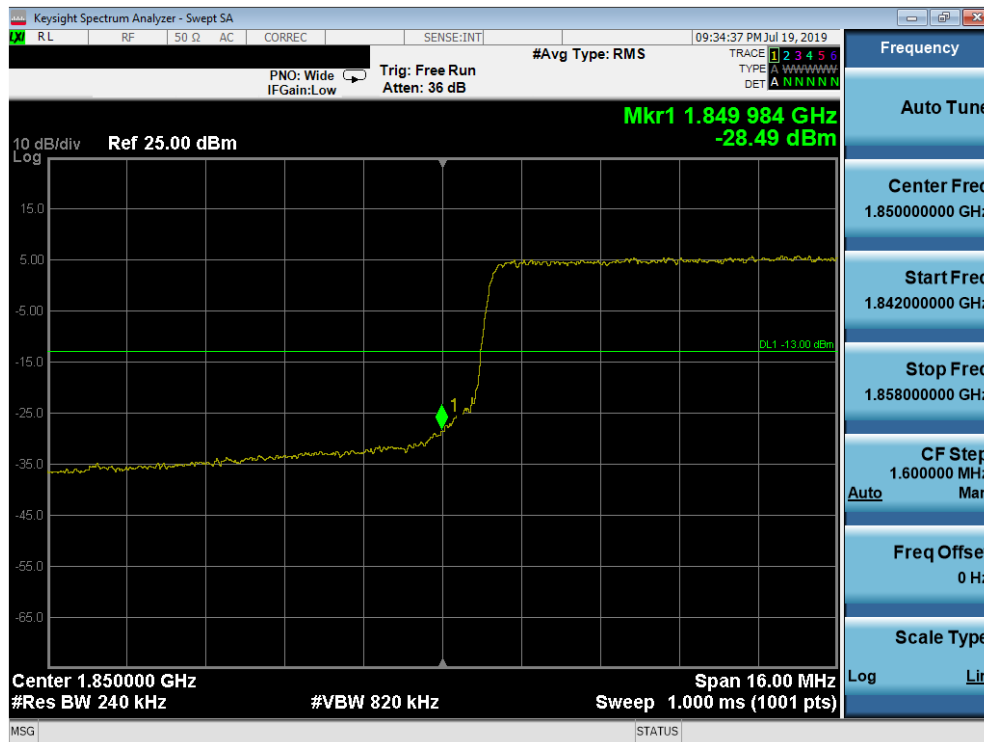


Plot 7-207. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

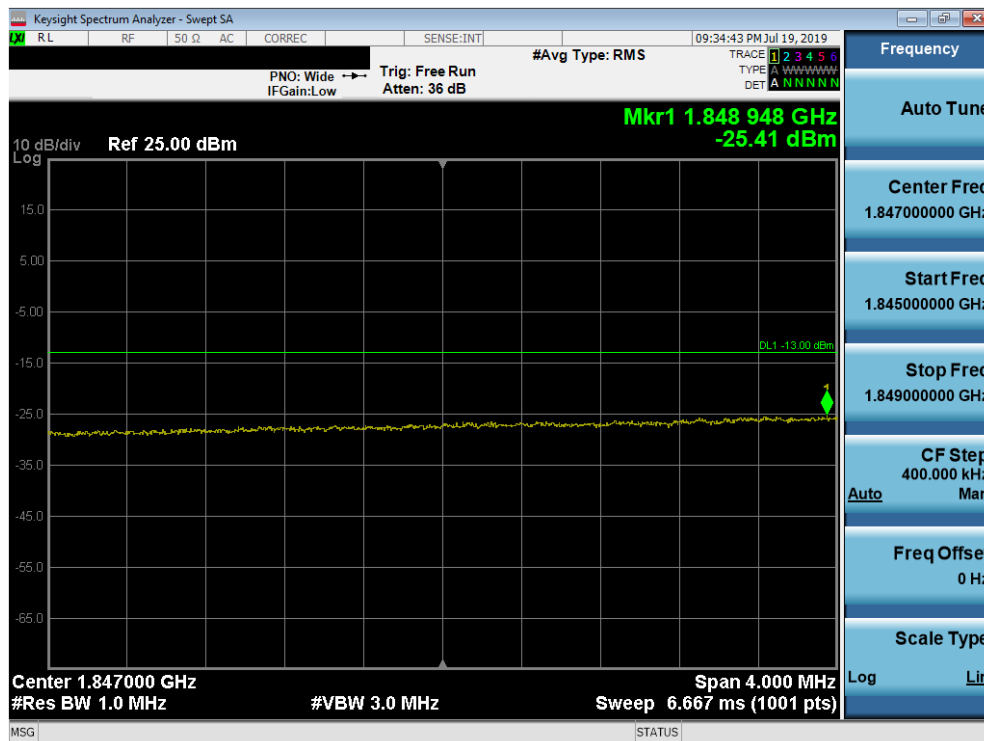


Plot 7-208. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 124 of 184

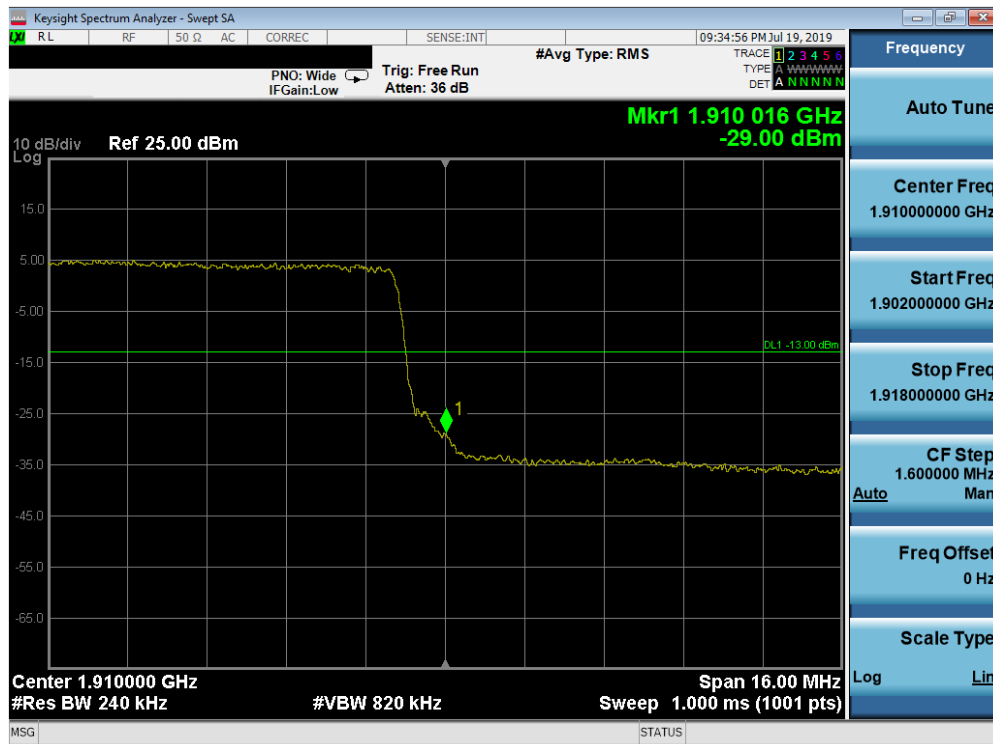


Plot 7-209. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

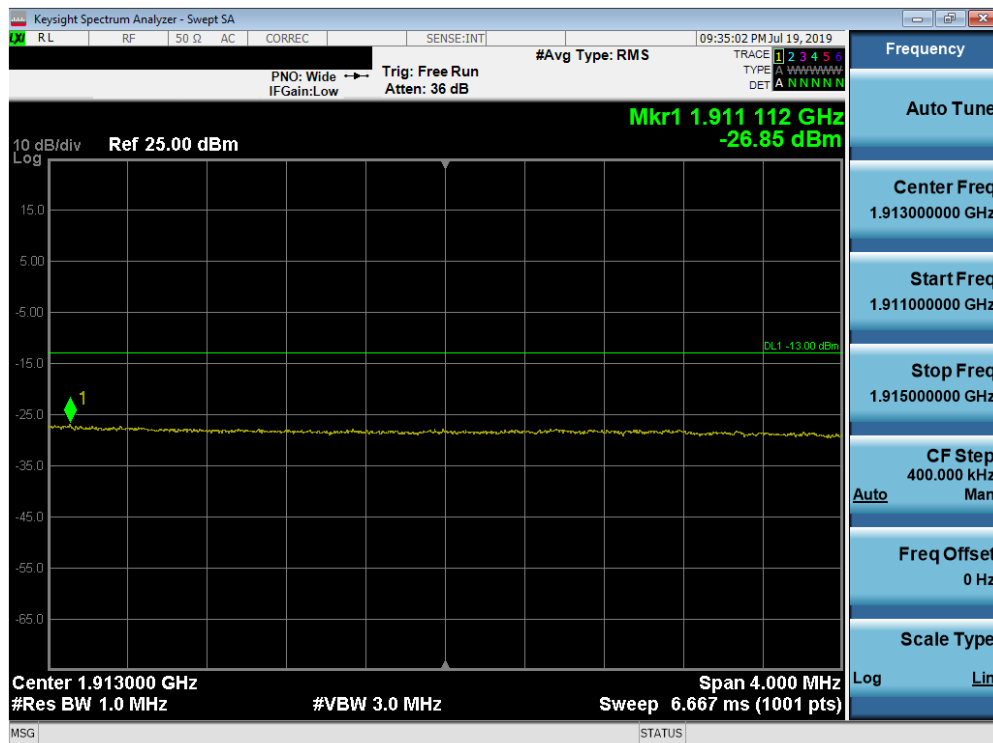


Plot 7-210. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 125 of 184



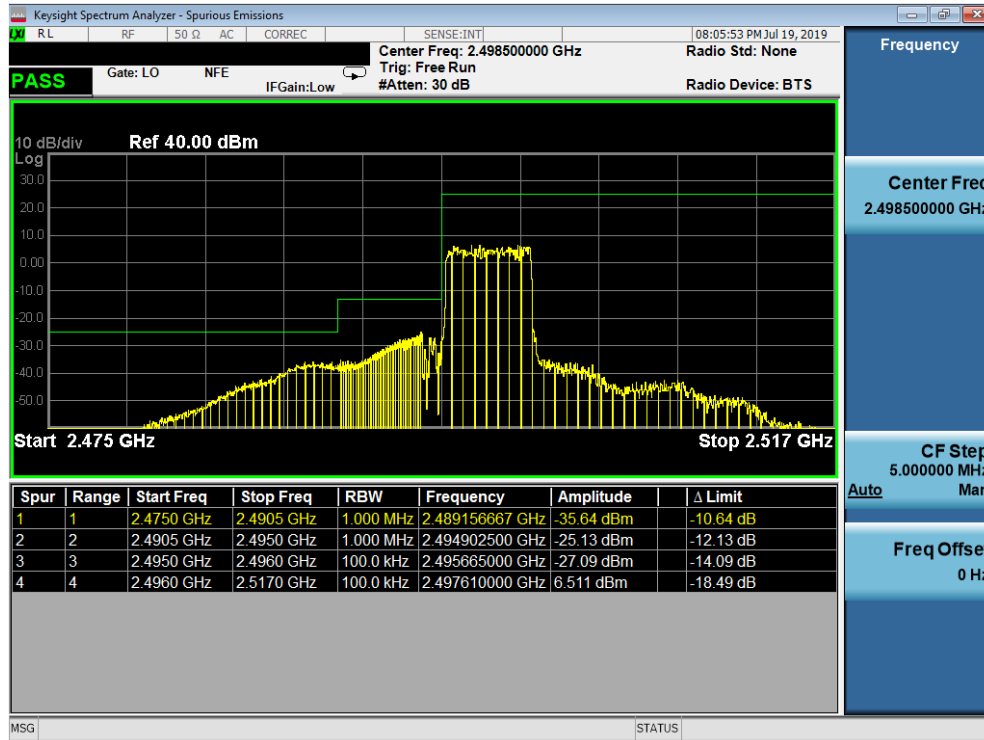
Plot 7-211. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



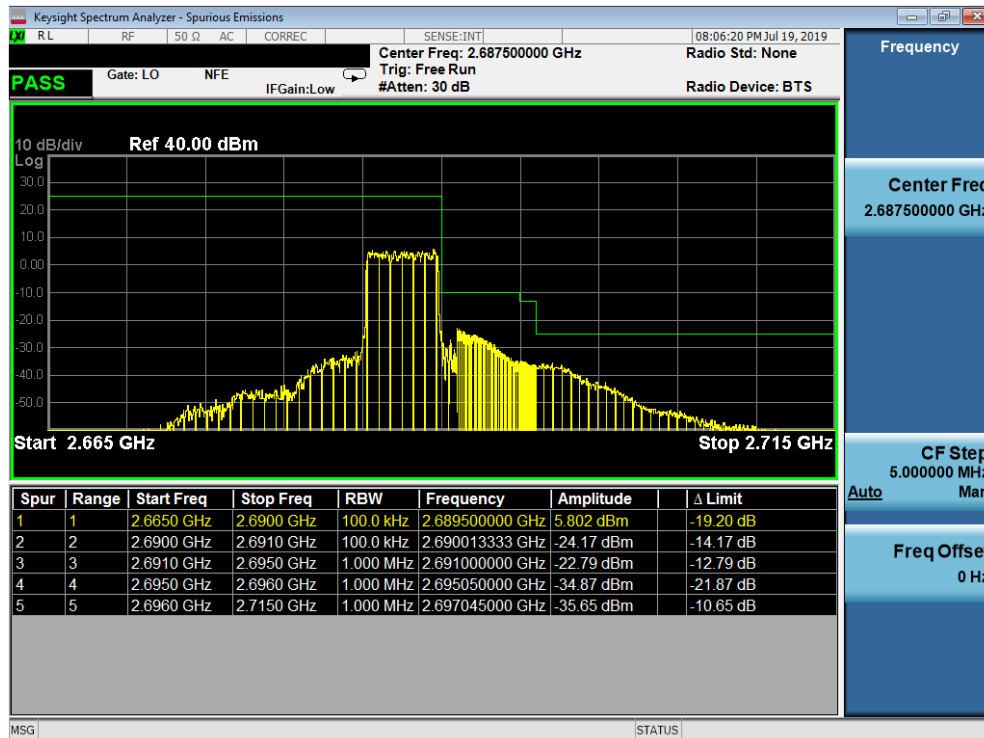
Plot 7-212. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 126 of 184

Band 41

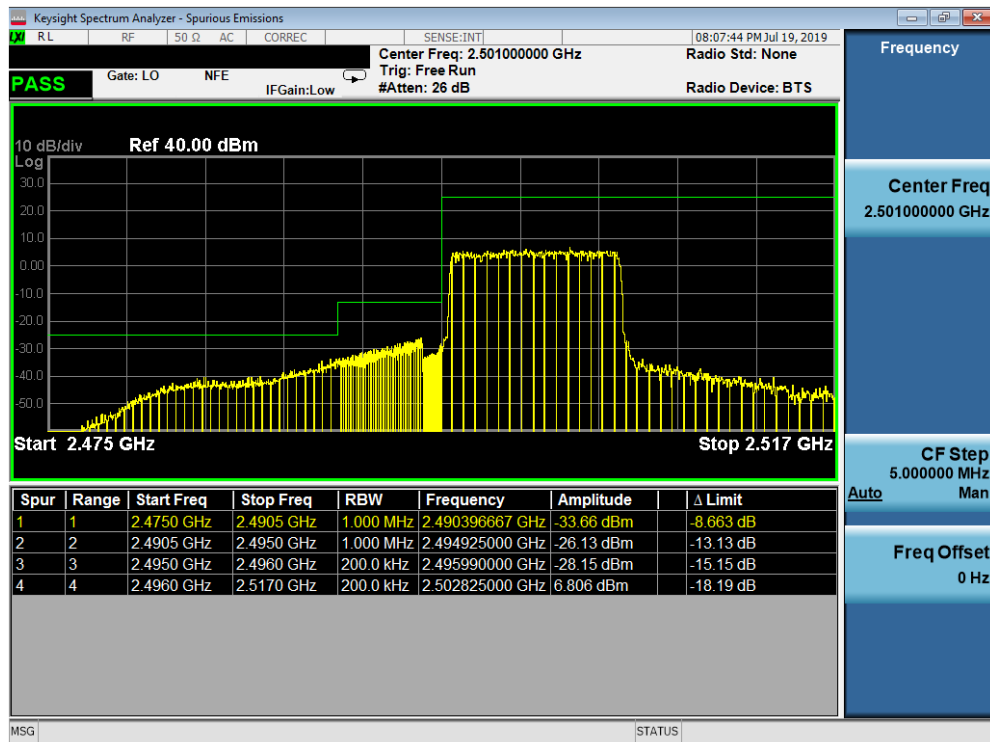


Plot 7-213. Lower ACP Plot (Band 41- 5.0MHz QPSK - Full RB Configuration)

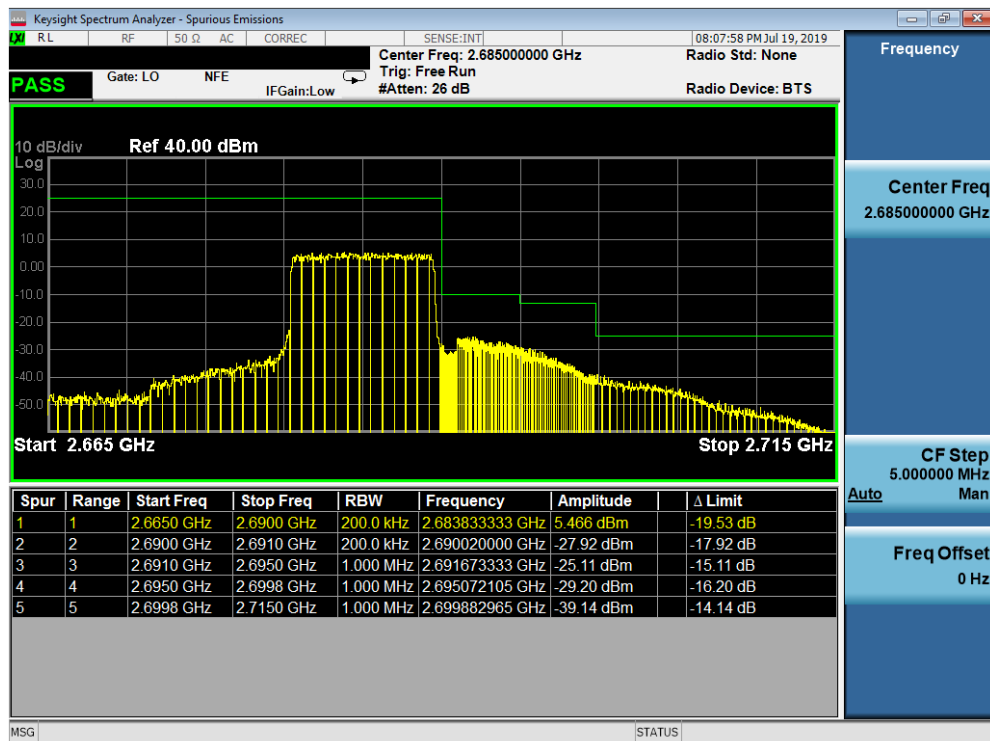


Plot 7-214. Upper ACP Plot (Band 41- 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 127 of 184

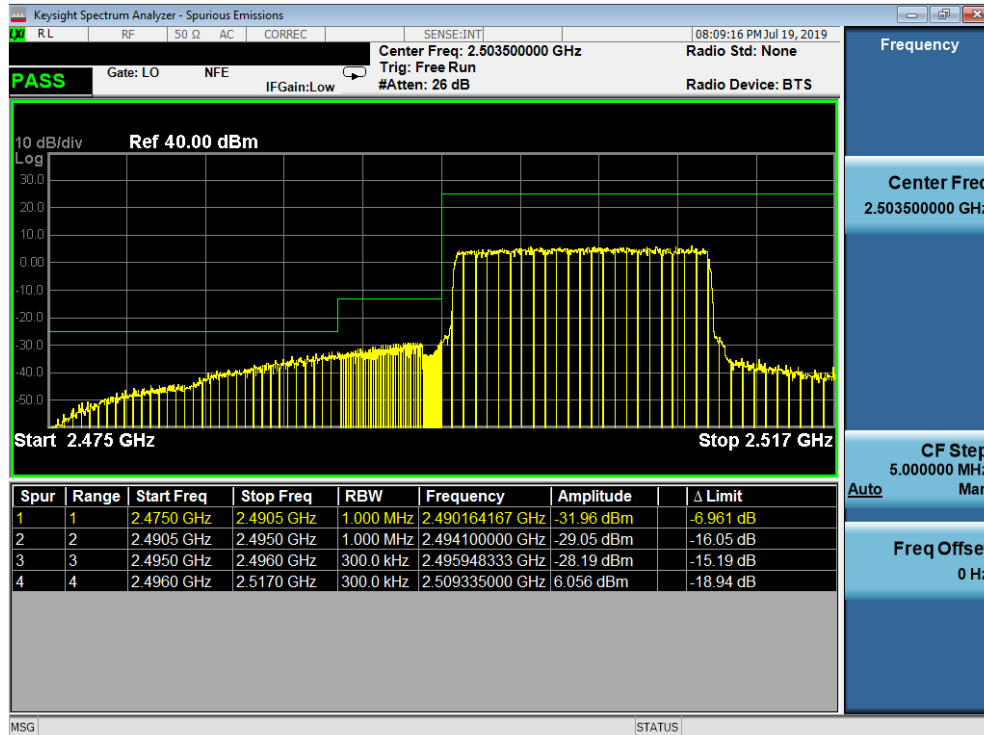


Plot 7-215. Lower ACP Plot (Band 41- 10.0MHz QPSK - Full RB Configuration)

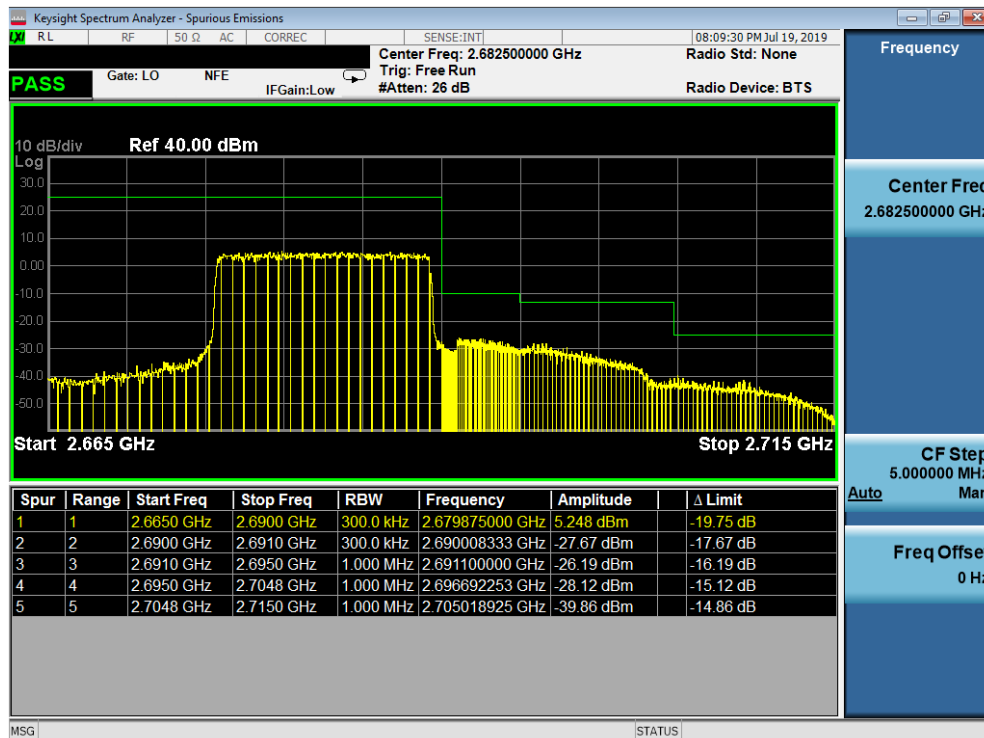


Plot 7-216. Upper ACP Plot (Band 41- 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 128 of 184

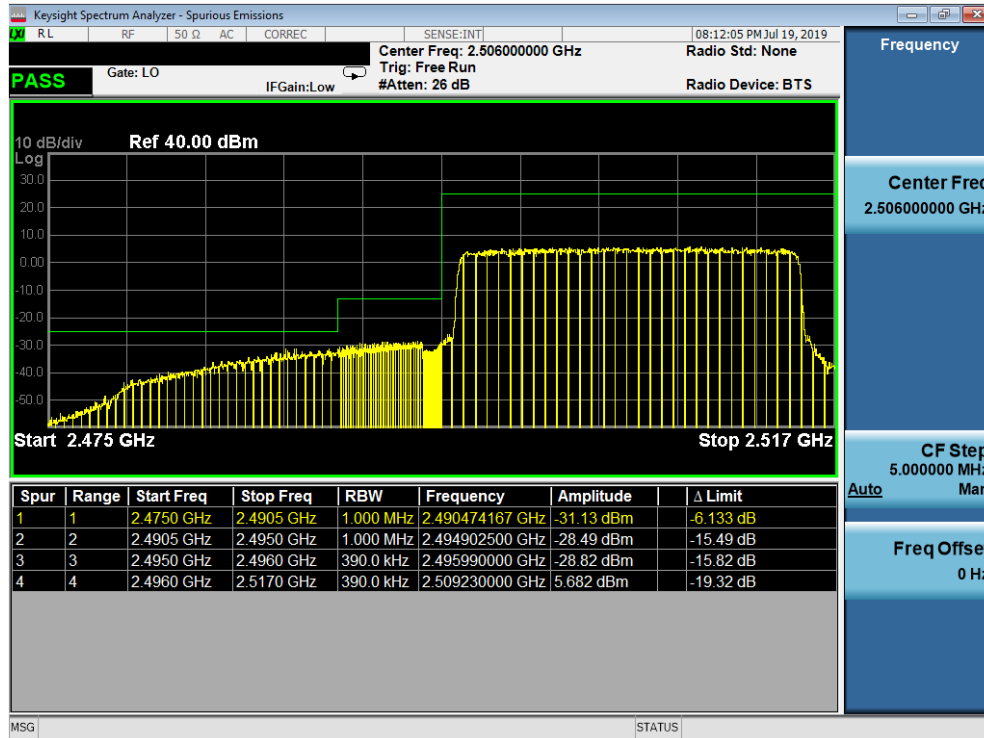


Plot 7-217. Lower ACP Plot (Band 41- 15.0MHz QPSK - Full RB Configuration)

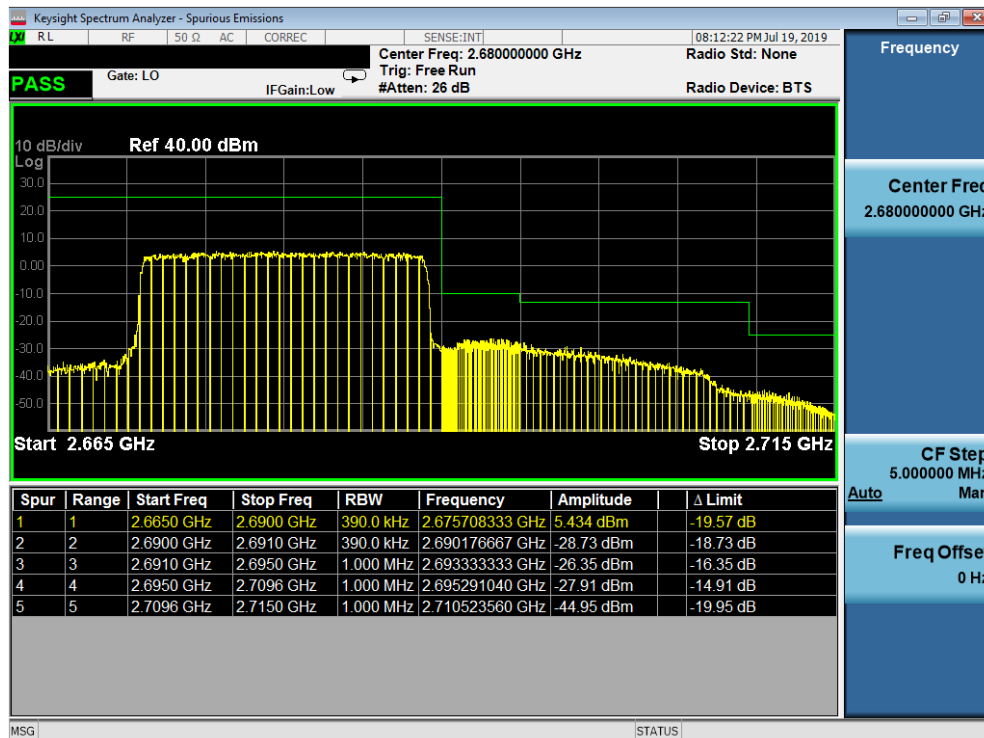


Plot 7-218. Upper ACP Plot (Band 41- 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-219. Lower ACP Plot (Band 41- 20.0MHz QPSK - Full RB Configuration)



Plot 7-220. Upper ACP Plot (Band 41- 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 130 of 184

7.5 Peak-Average Ratio

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

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

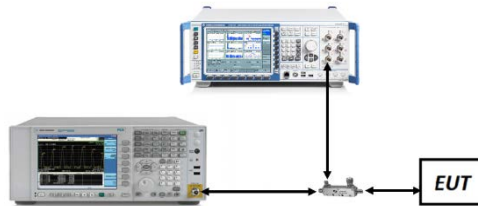


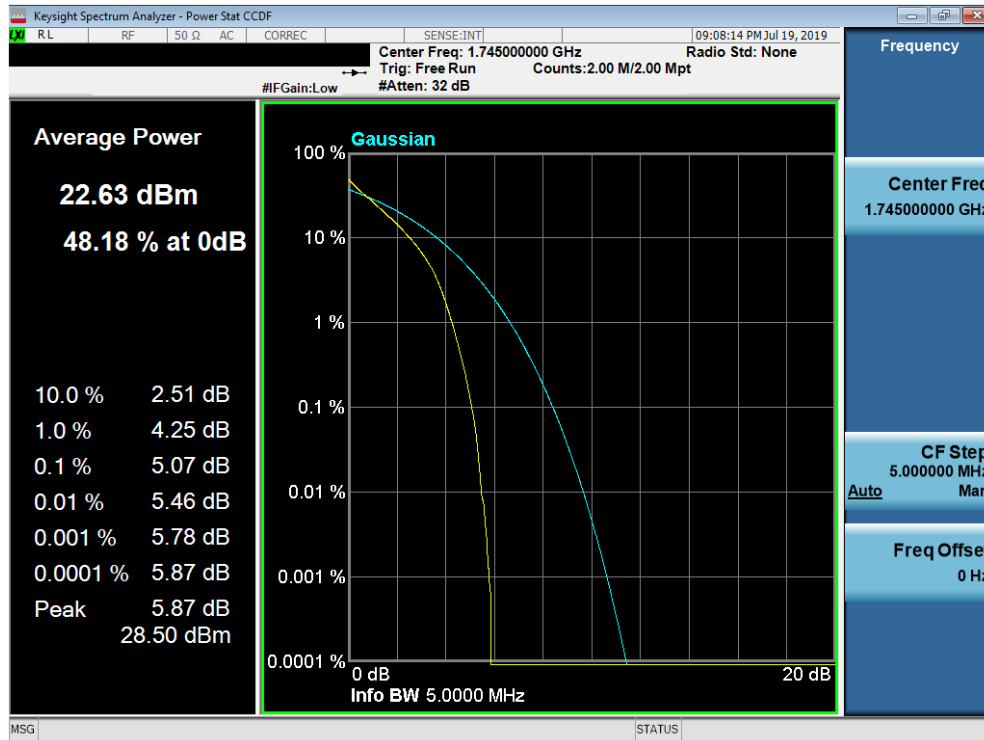
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

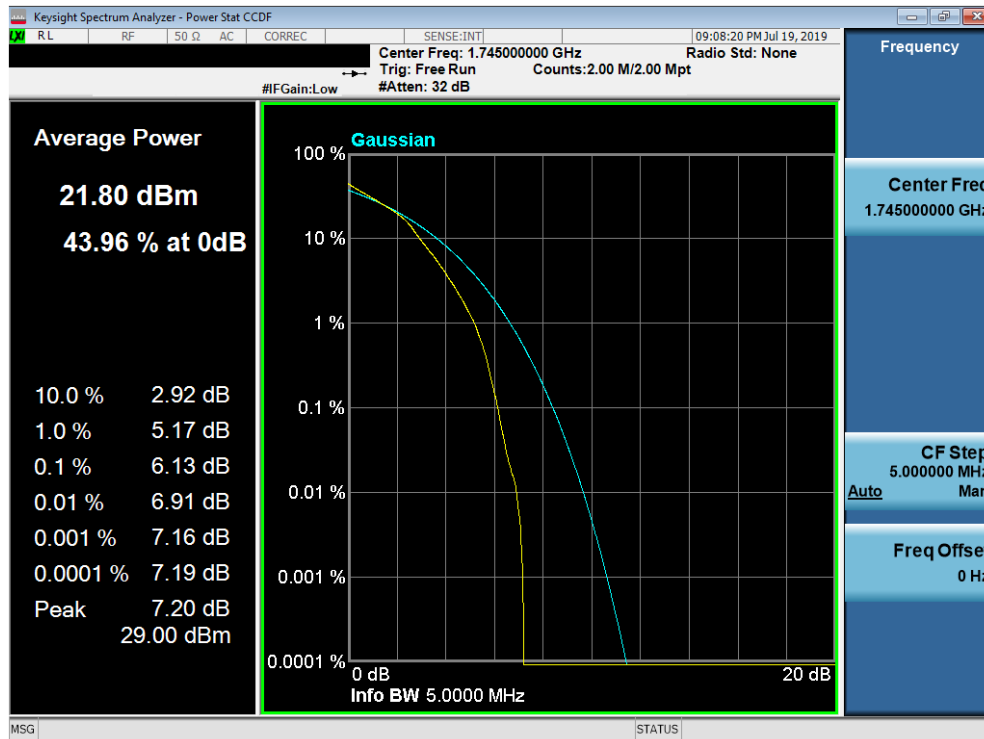
None.

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 131 of 184

Band 66/4

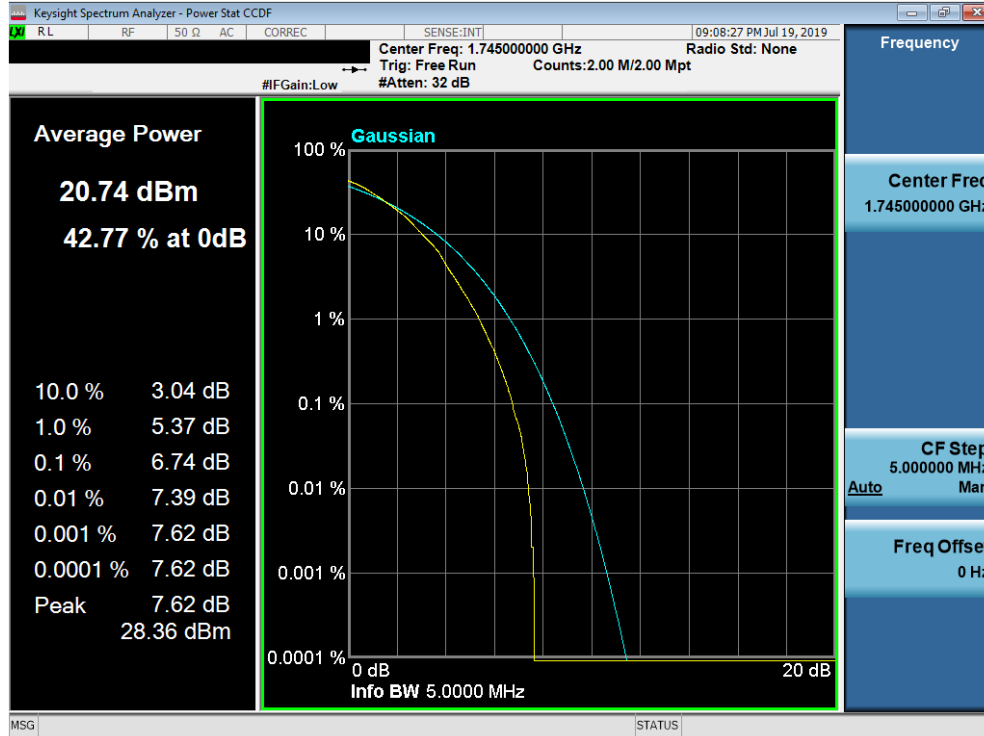


Plot 7-221. PAR Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

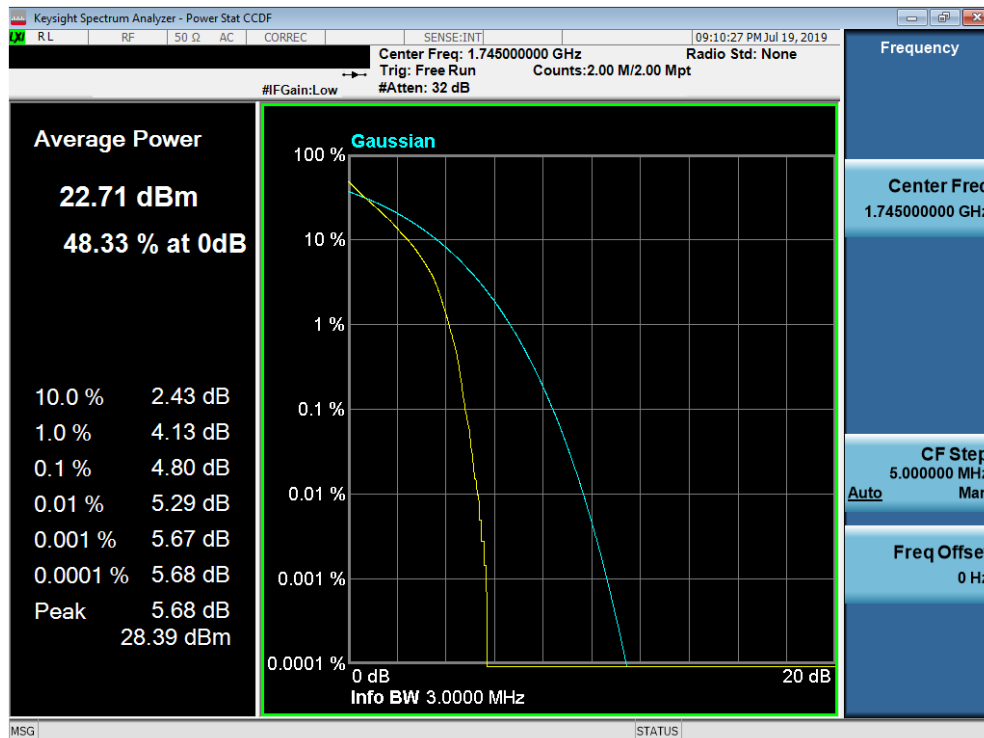


Plot 7-222. PAR Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 132 of 184

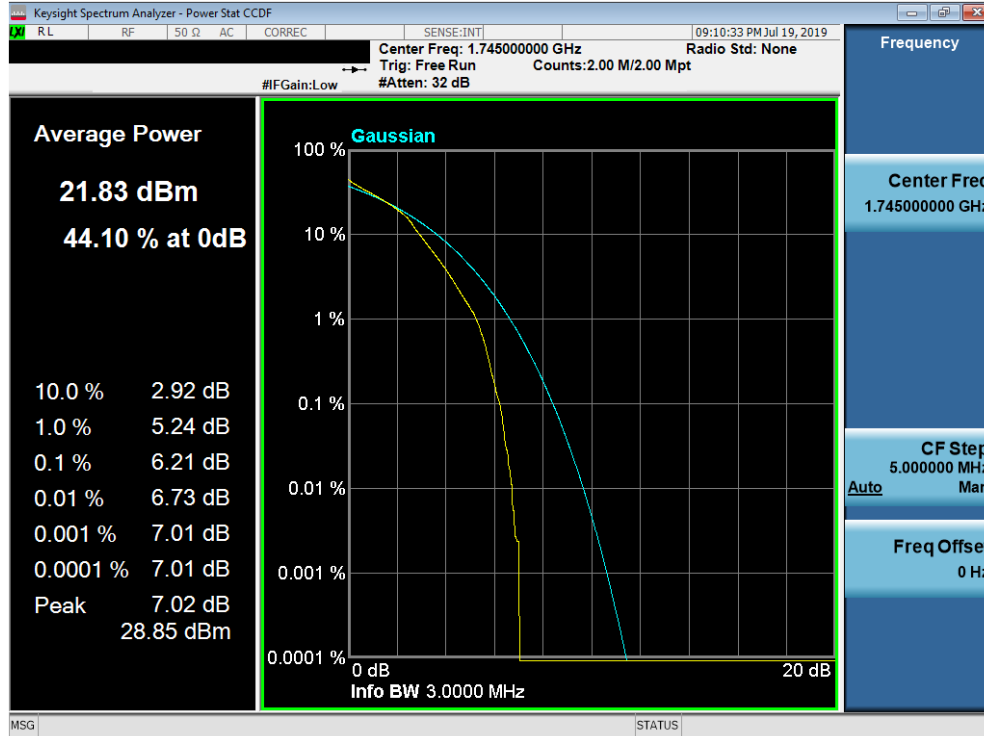


Plot 7-223. PAR Plot (Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)

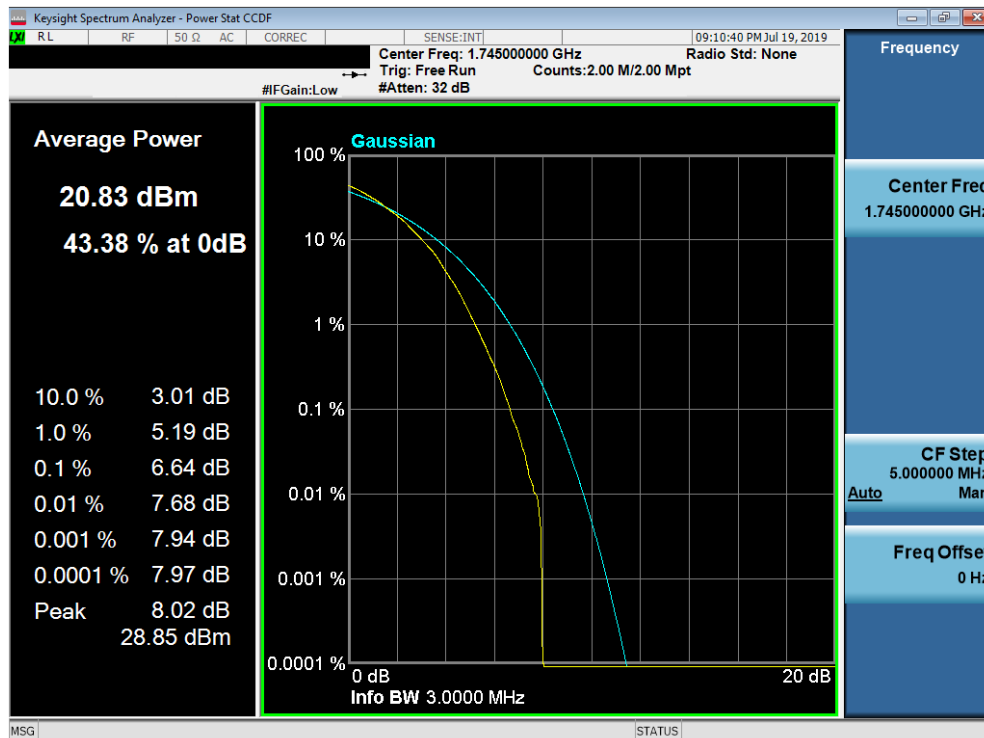


Plot 7-224. PAR Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 133 of 184

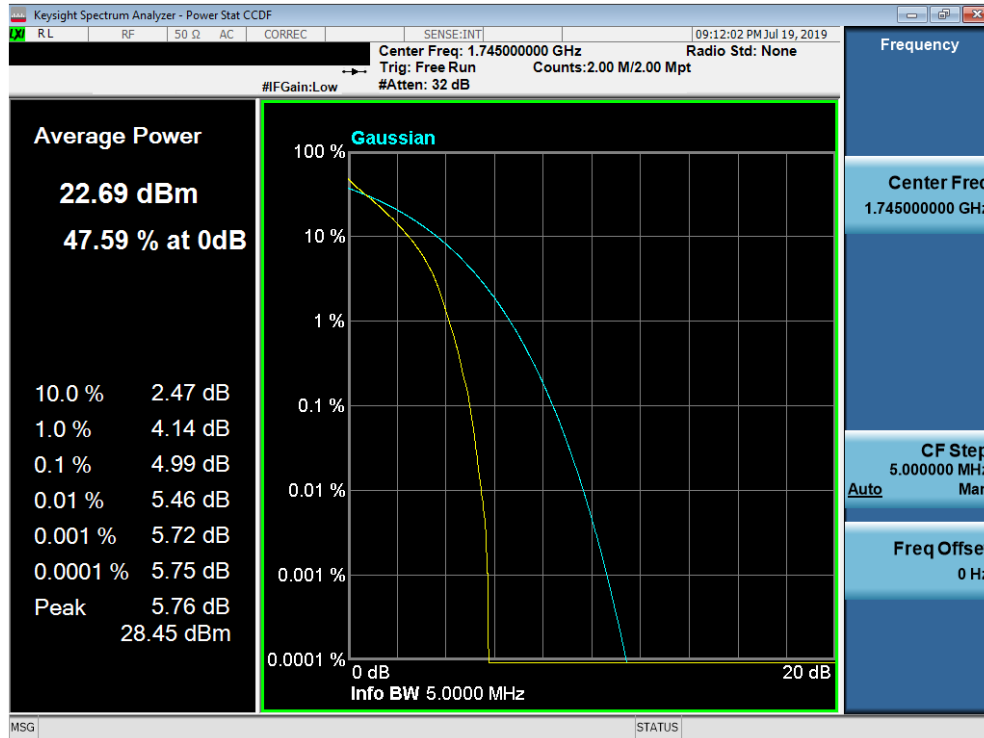


Plot 7-225. PAR Plot (Band 66/4 - 3.0MHz 16-QAM - Full RB Configuration)

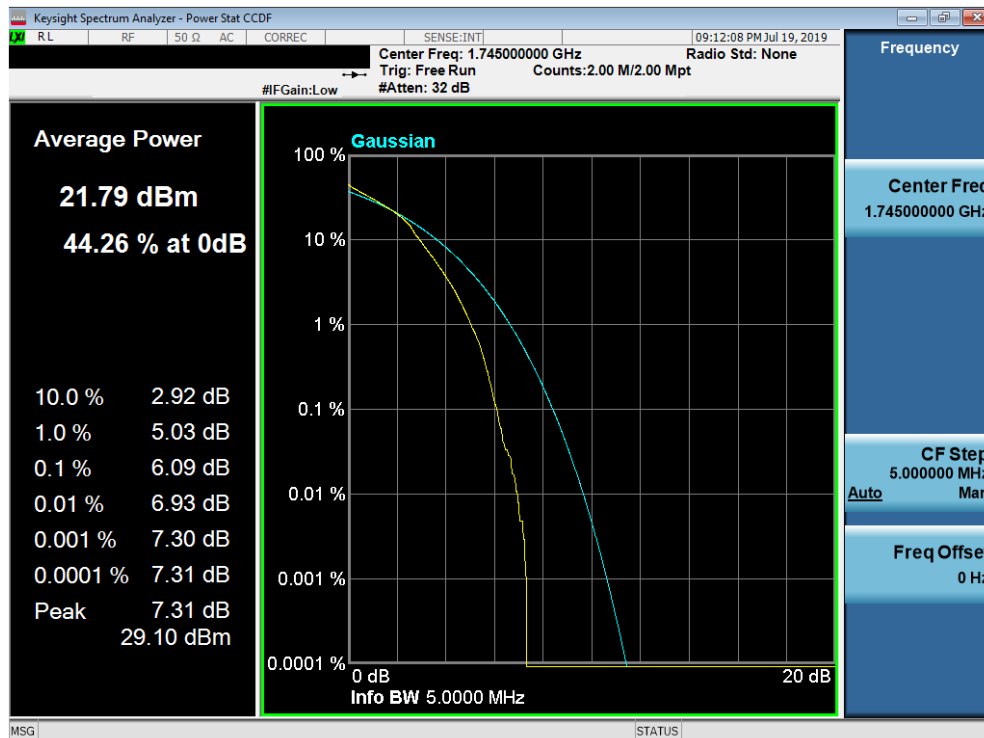


Plot 7-226. PAR Plot (Band 66/4 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 134 of 184

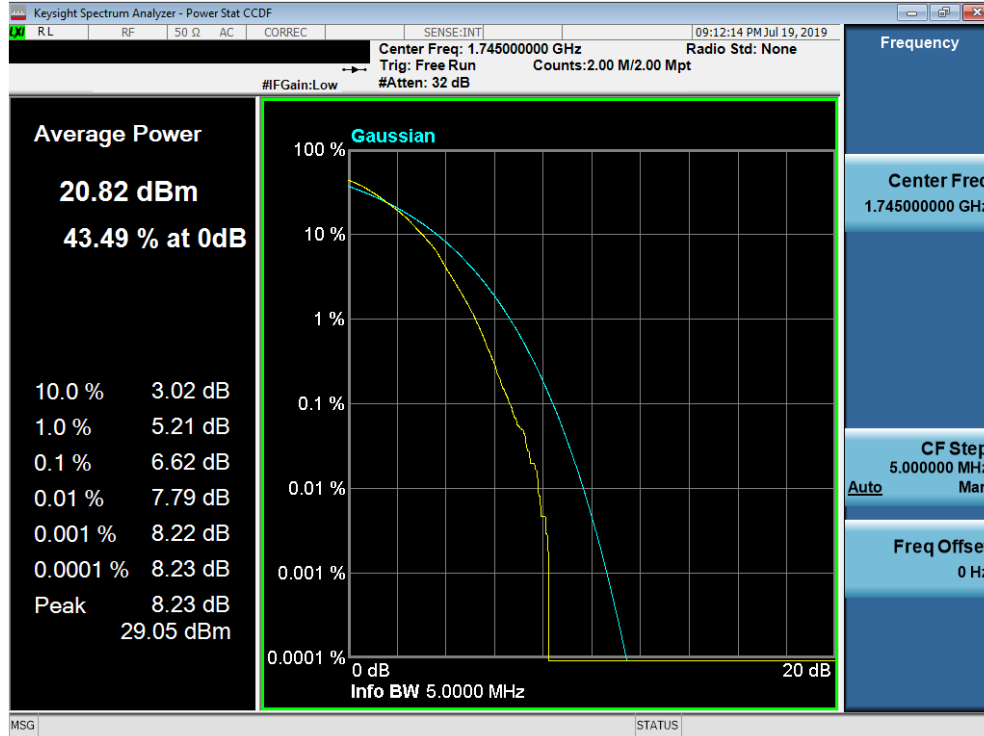


Plot 7-227. PAR Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

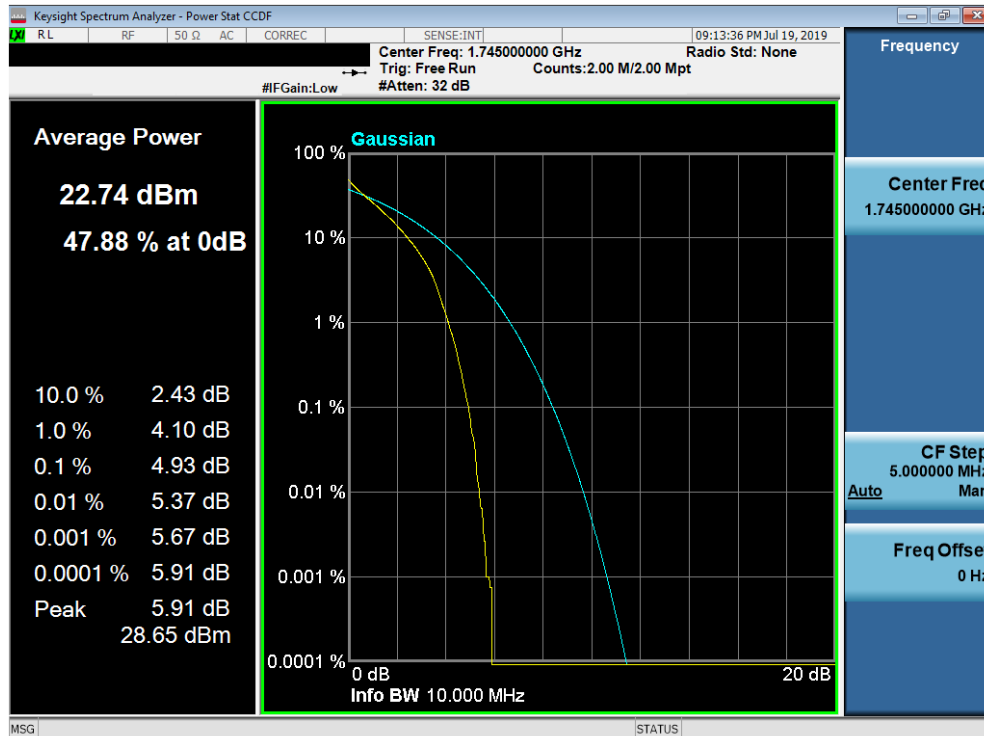


Plot 7-228. PAR Plot (Band 66/4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 135 of 184

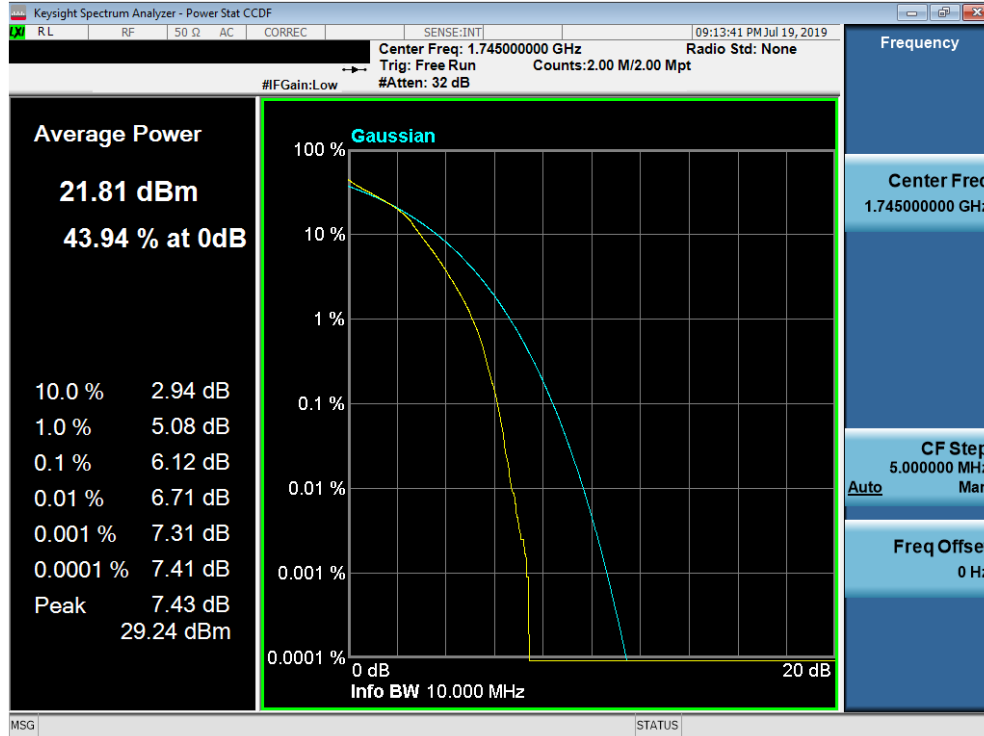


Plot 7-229. PAR Plot (Band 66/4 - 5.0MHz 64-QAM - Full RB Configuration)

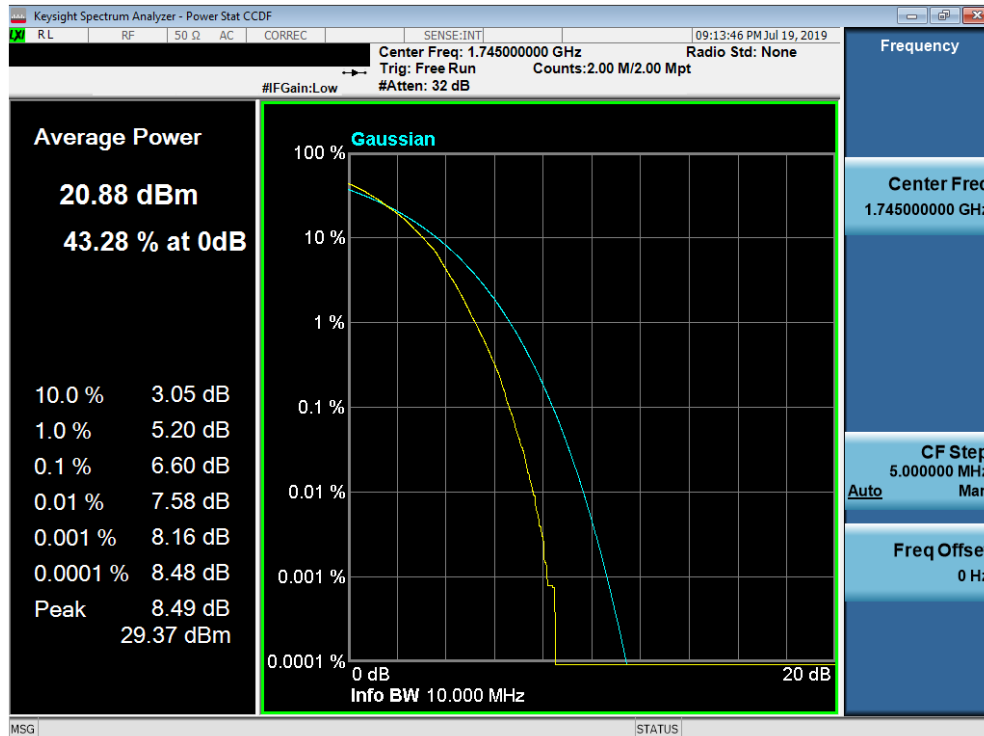


Plot 7-230. PAR Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 136 of 184

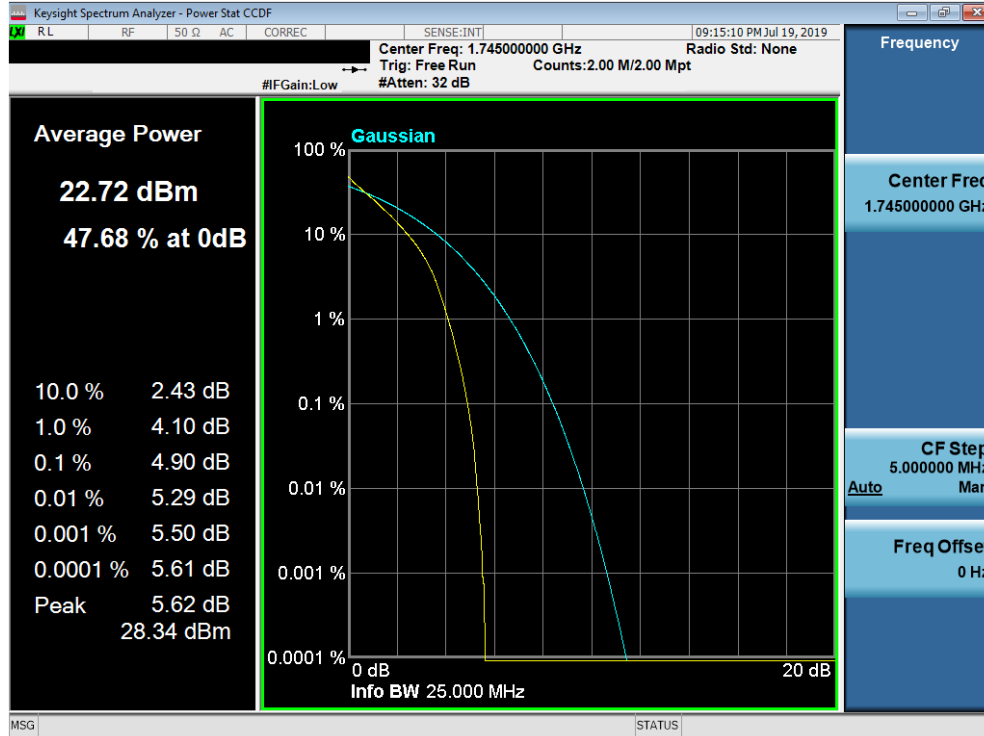


Plot 7-231. PAR Plot (Band 66/4 - 10.0MHz 16-QAM - Full RB Configuration)

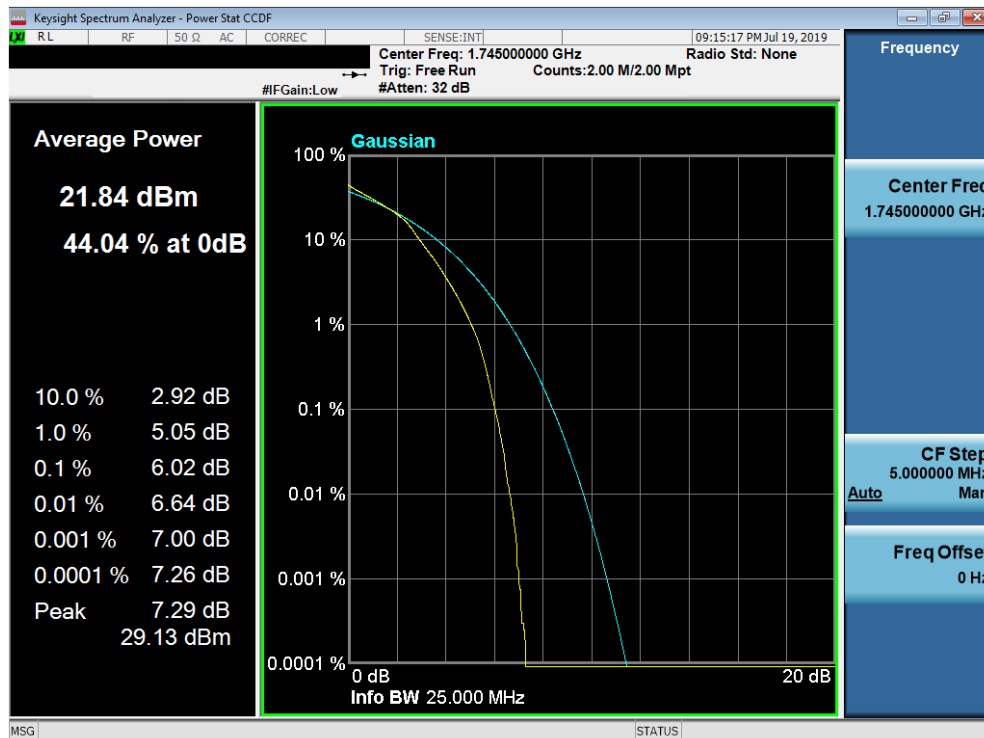


Plot 7-232. PAR Plot (Band 66/4 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 137 of 184

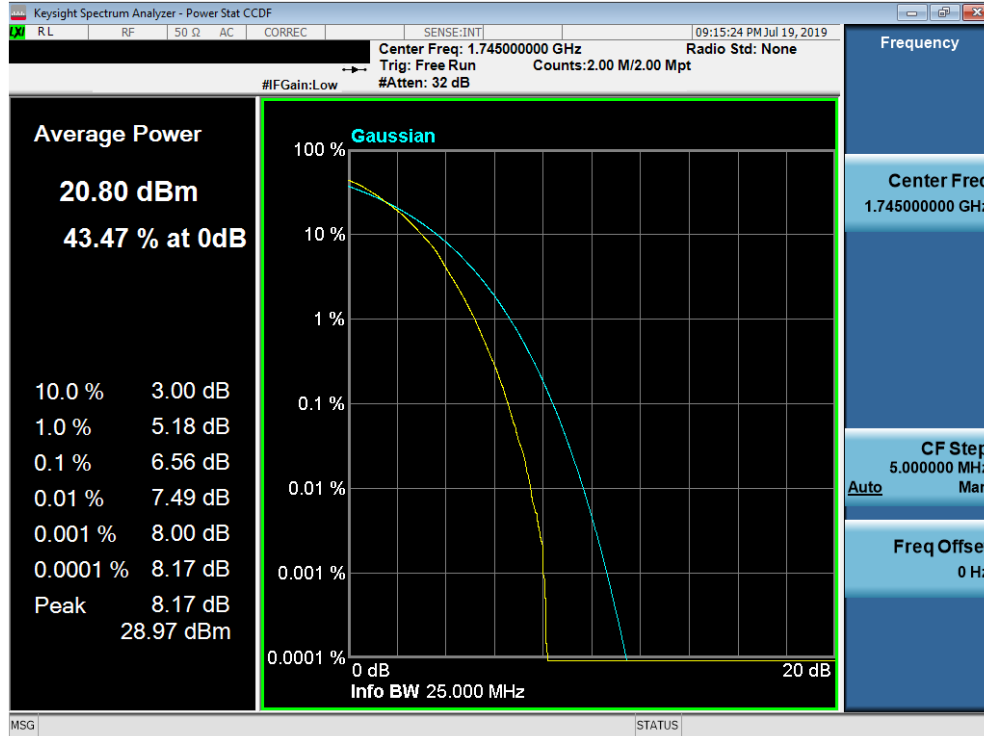


Plot 7-233. PAR Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

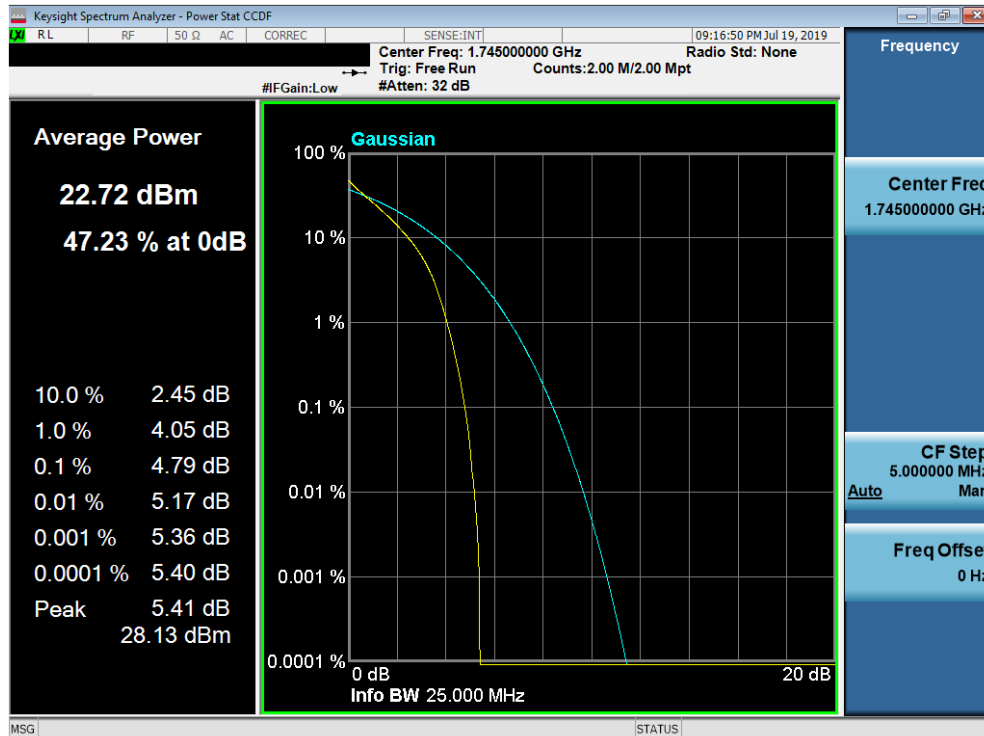


Plot 7-234. PAR Plot (Band 66/4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 138 of 184

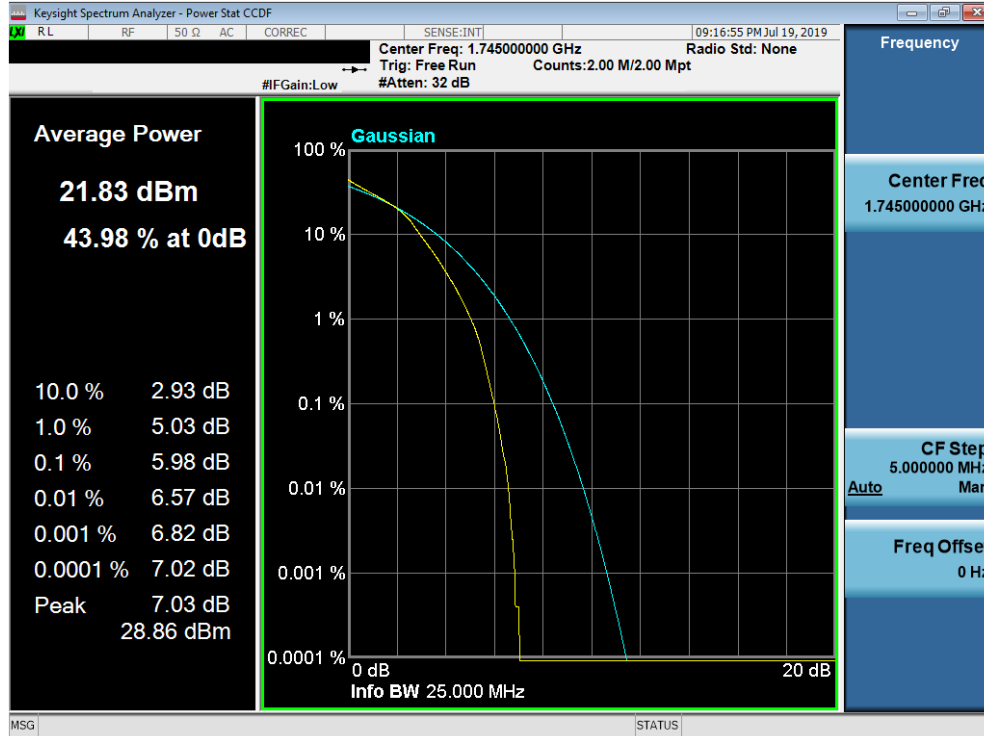


Plot 7-235. PAR Plot (Band 66/4 - 15.0MHz 64-QAM - Full RB Configuration)

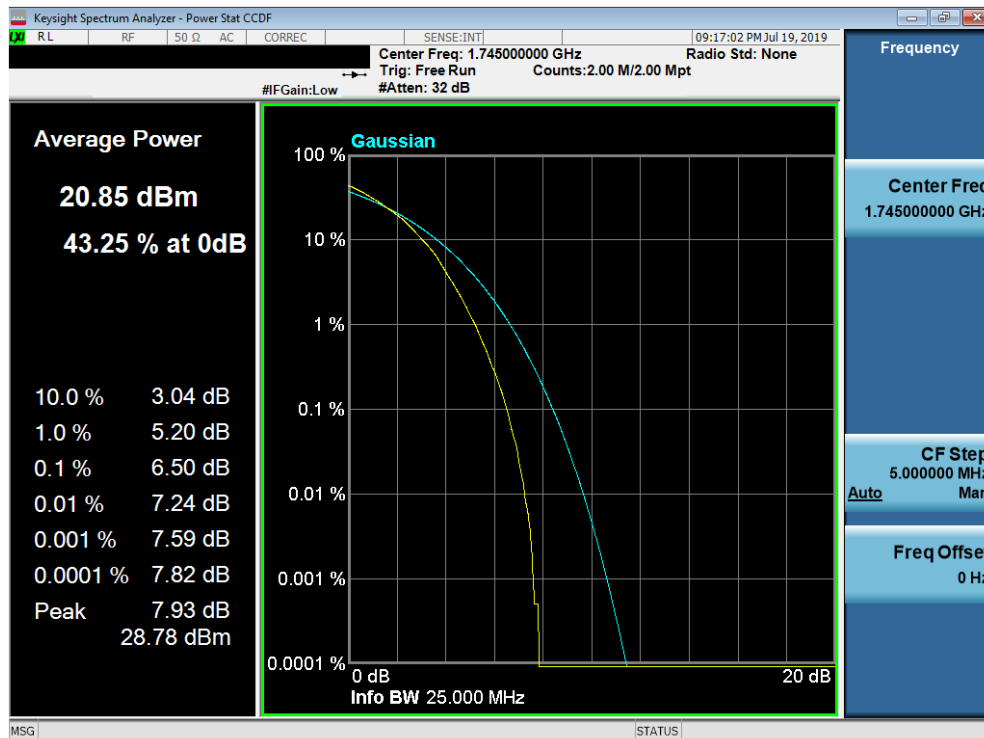


Plot 7-236. PAR Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 139 of 184



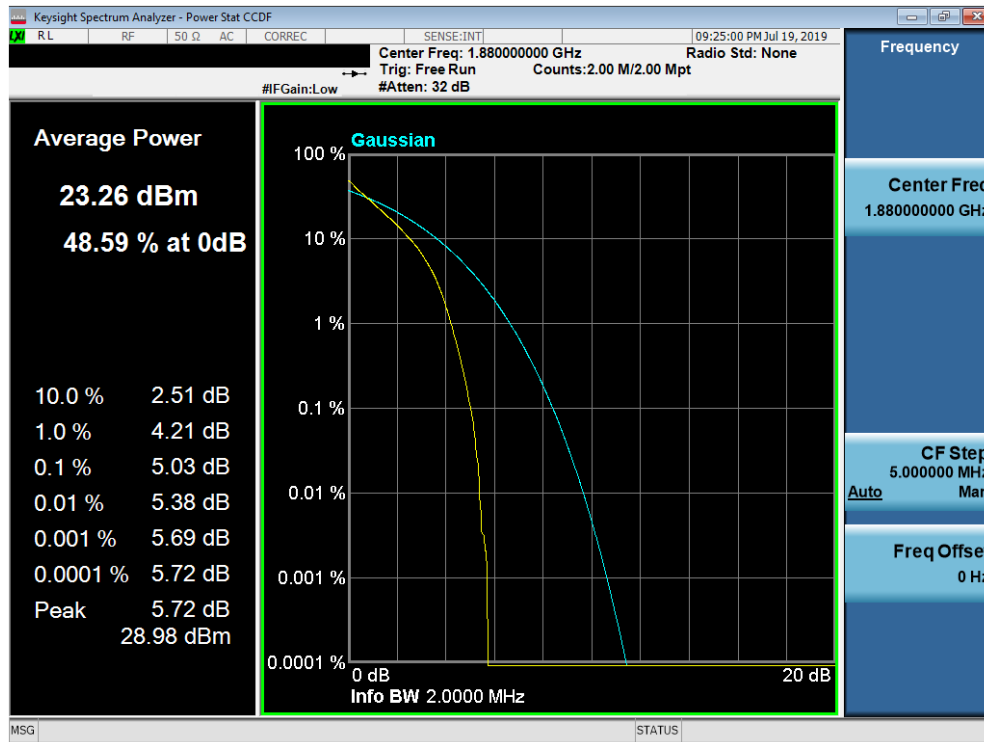
Plot 7-237. PAR Plot (Band 66/4 - 20.0MHz 16-QAM - Full RB Configuration)



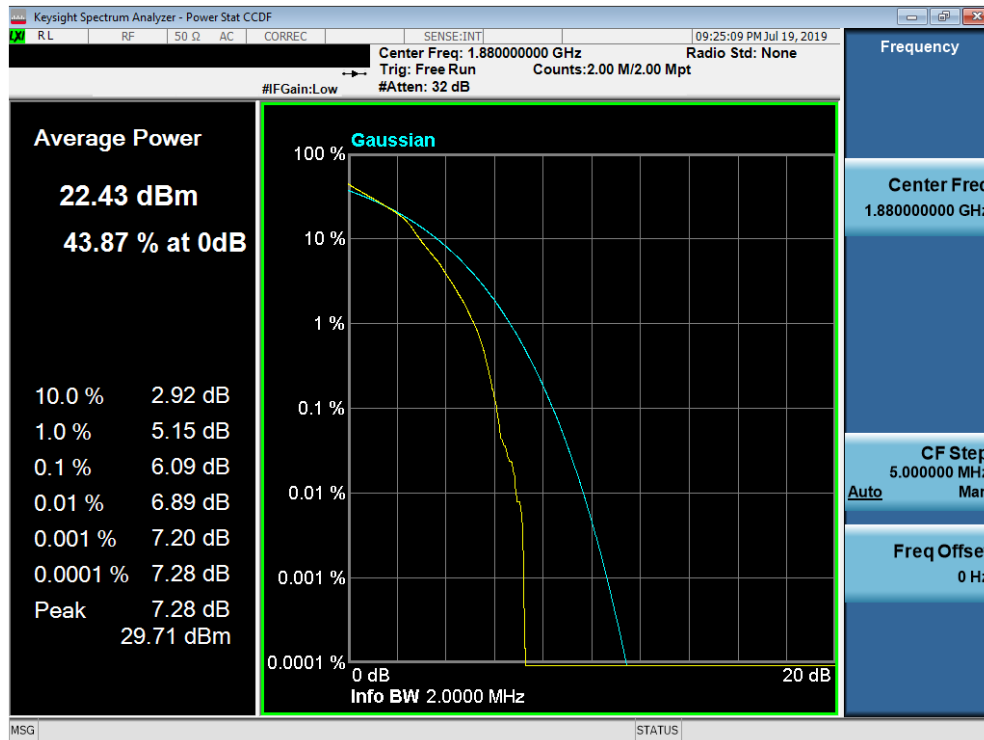
Plot 7-238. PAR Plot (Band 66/4 - 20.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 140 of 184

Band 2

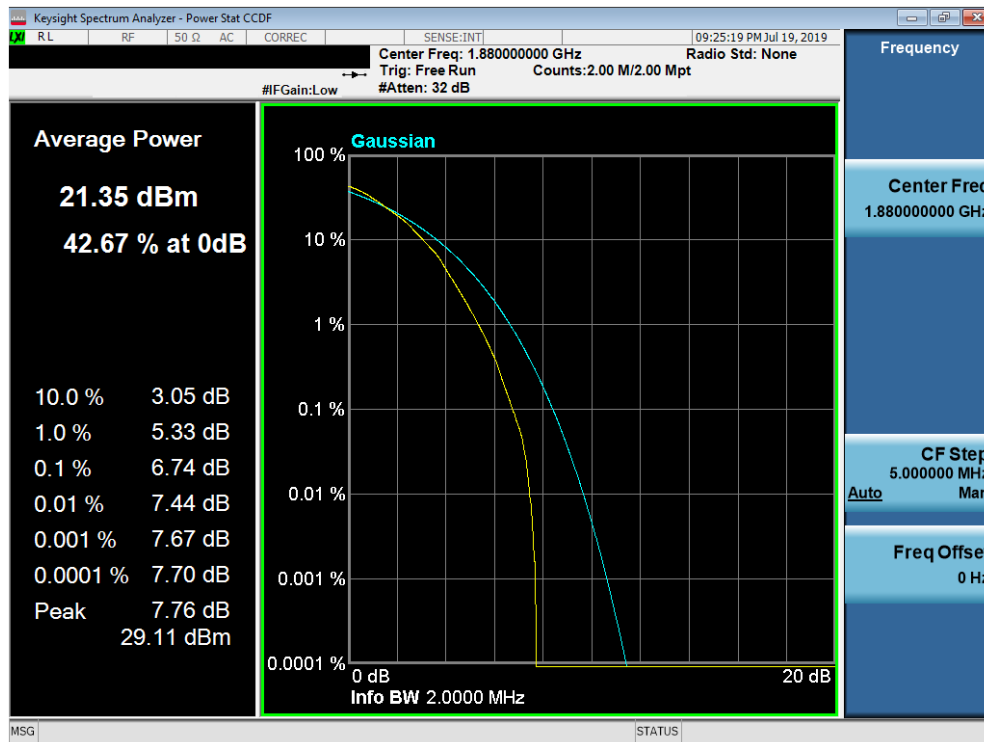


Plot 7-239. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

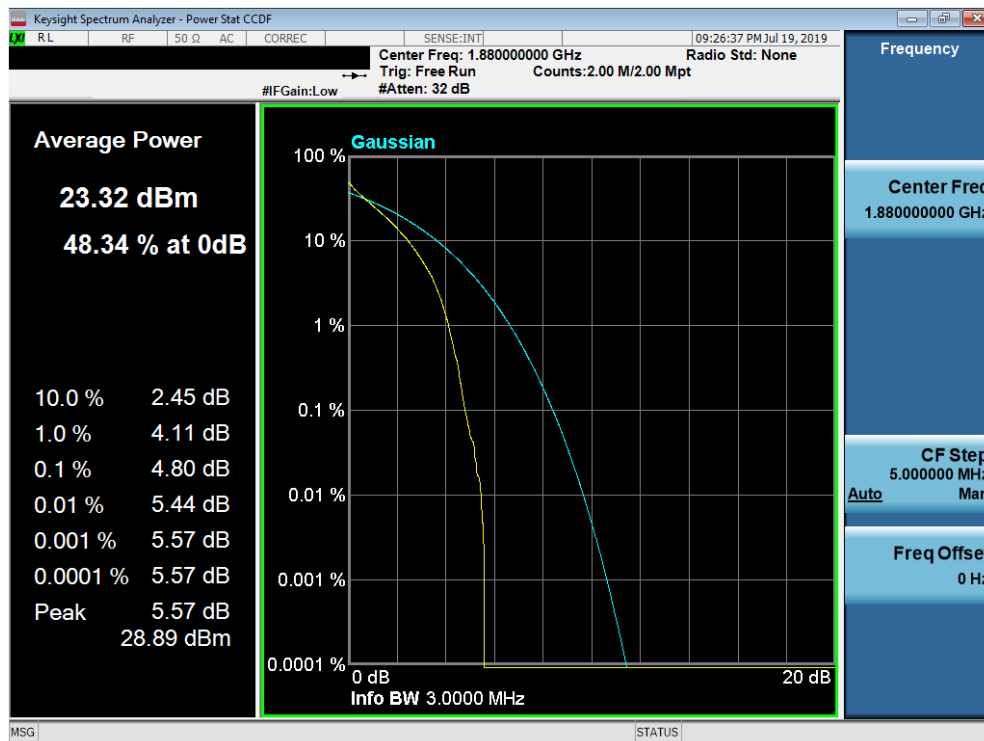


Plot 7-240. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 141 of 184

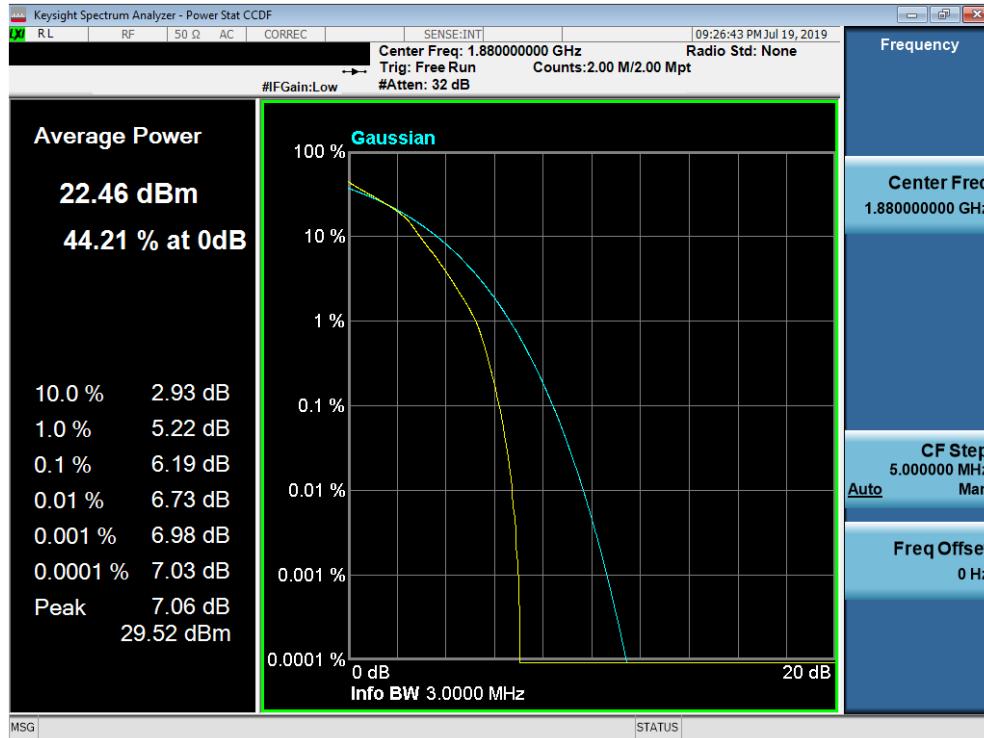


Plot 7-241. PAR Plot (Band 2 - 1.4MHz 64-QAM - Full RB Configuration)

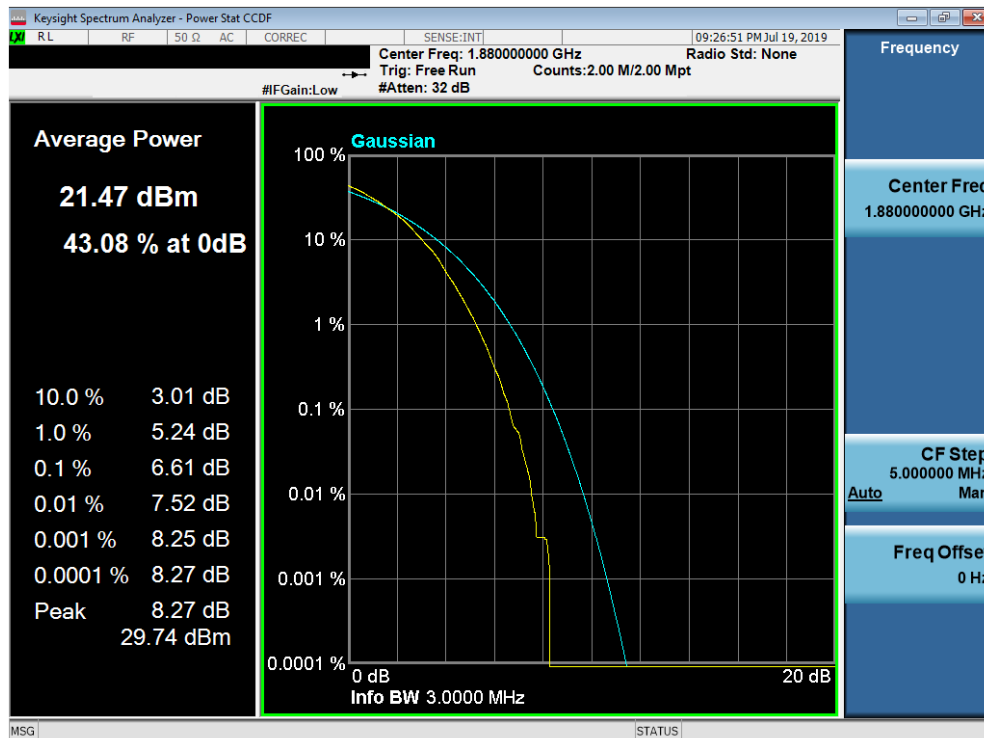


Plot 7-242. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 142 of 184

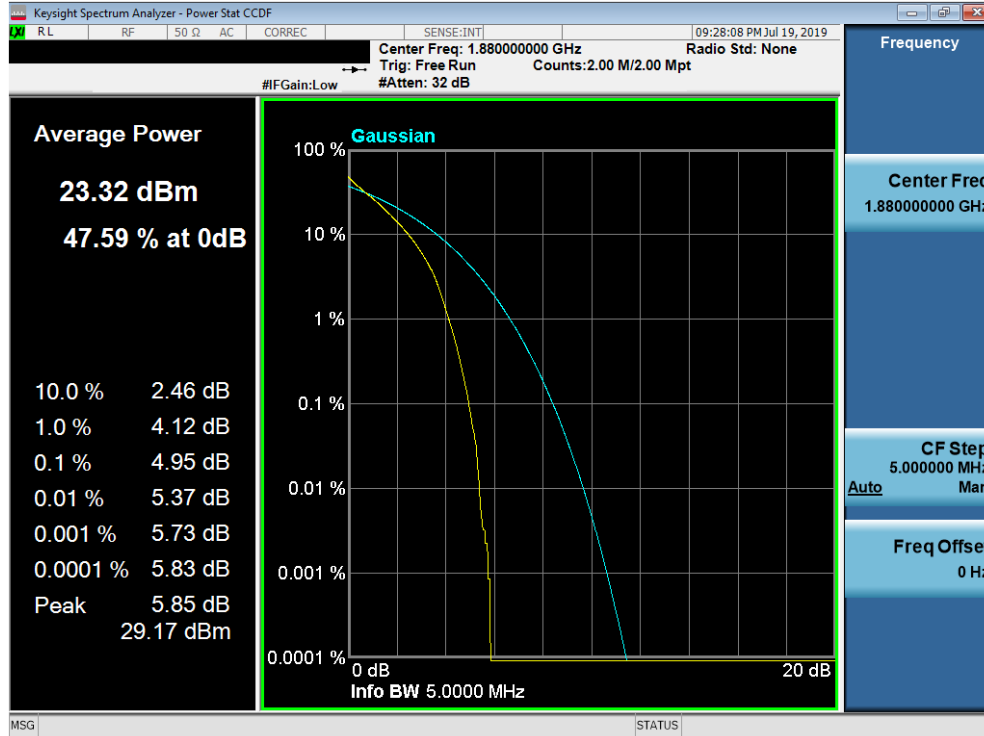


Plot 7-243. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

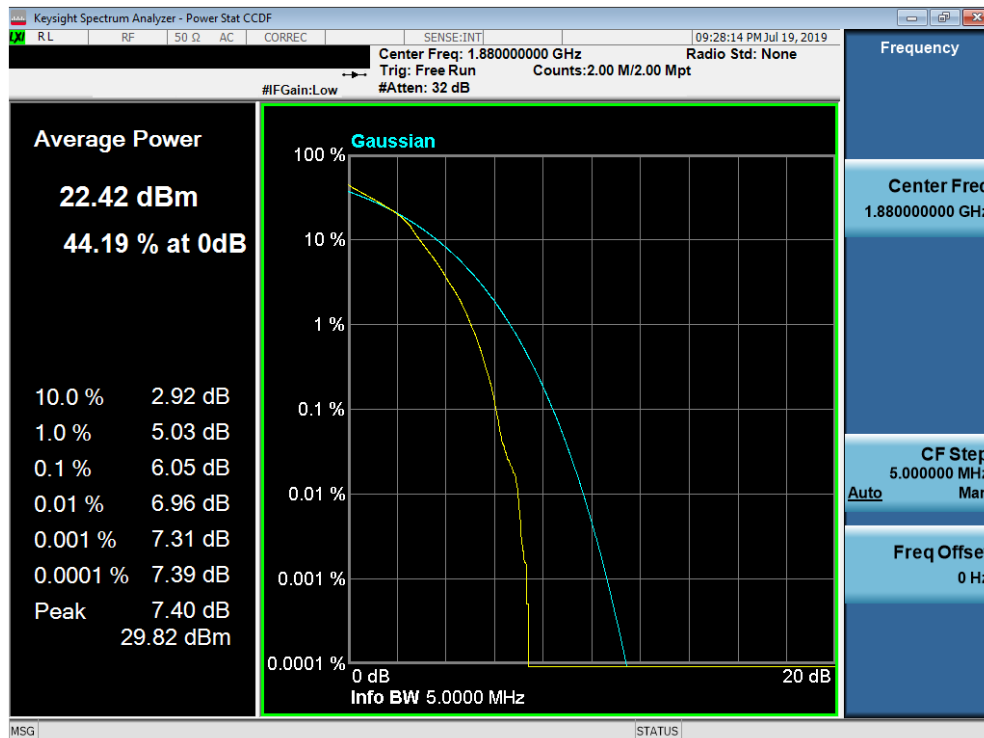


Plot 7-244. PAR Plot (Band 2 - 3.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 143 of 184

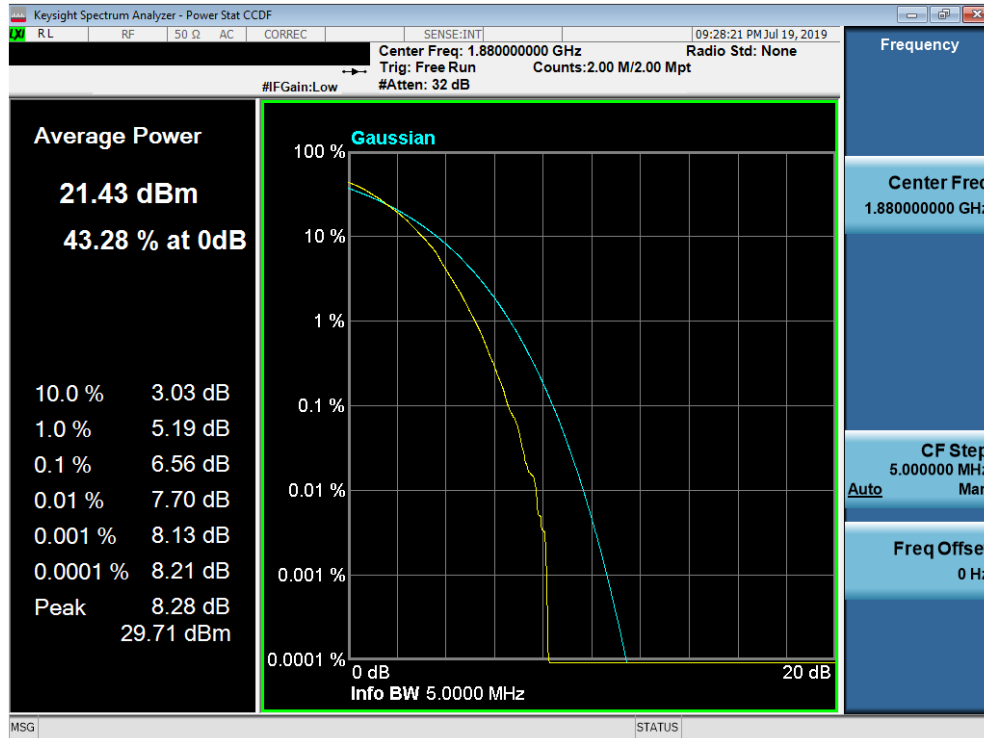


Plot 7-245. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

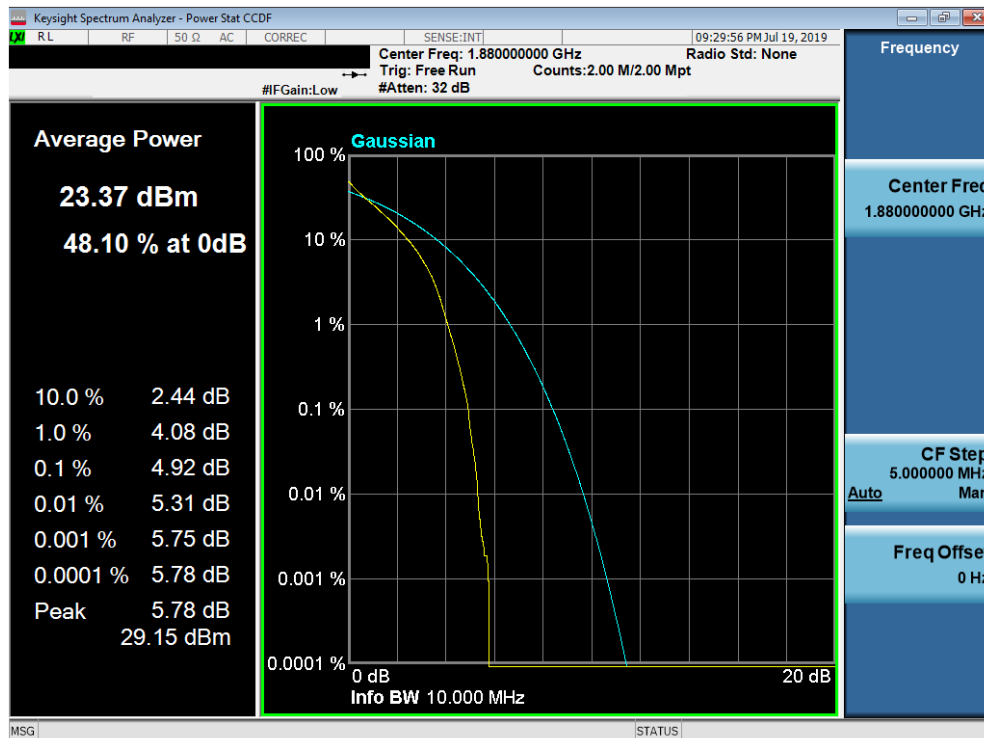


Plot 7-246. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 144 of 184

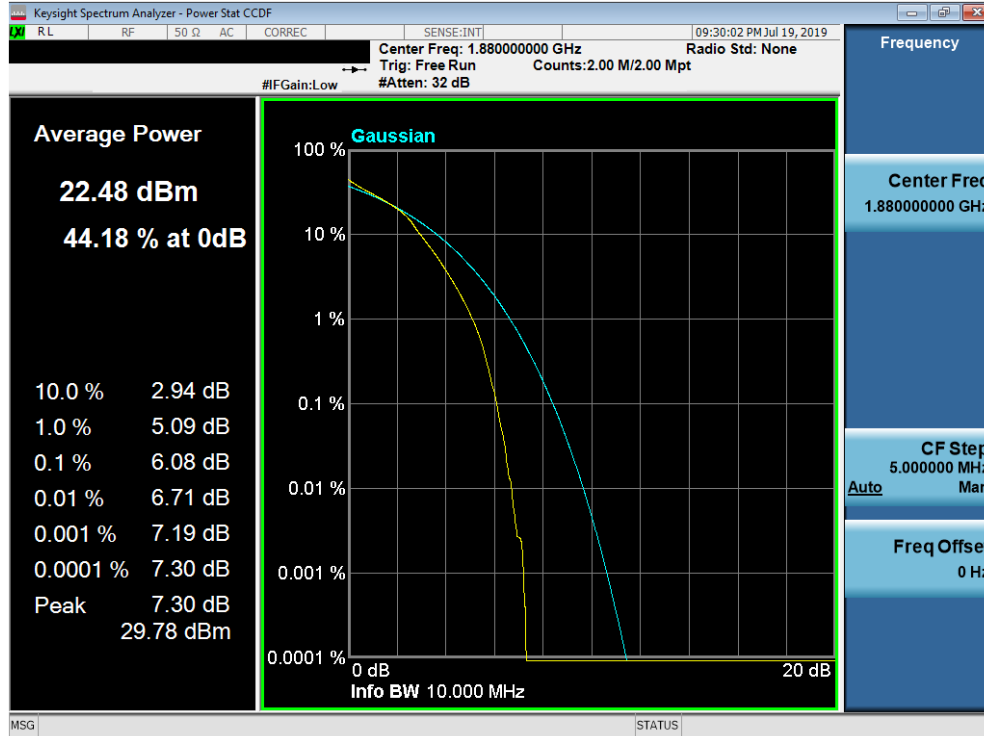


Plot 7-247. PAR Plot (Band 2 - 5.0MHz 64-QAM - Full RB Configuration)

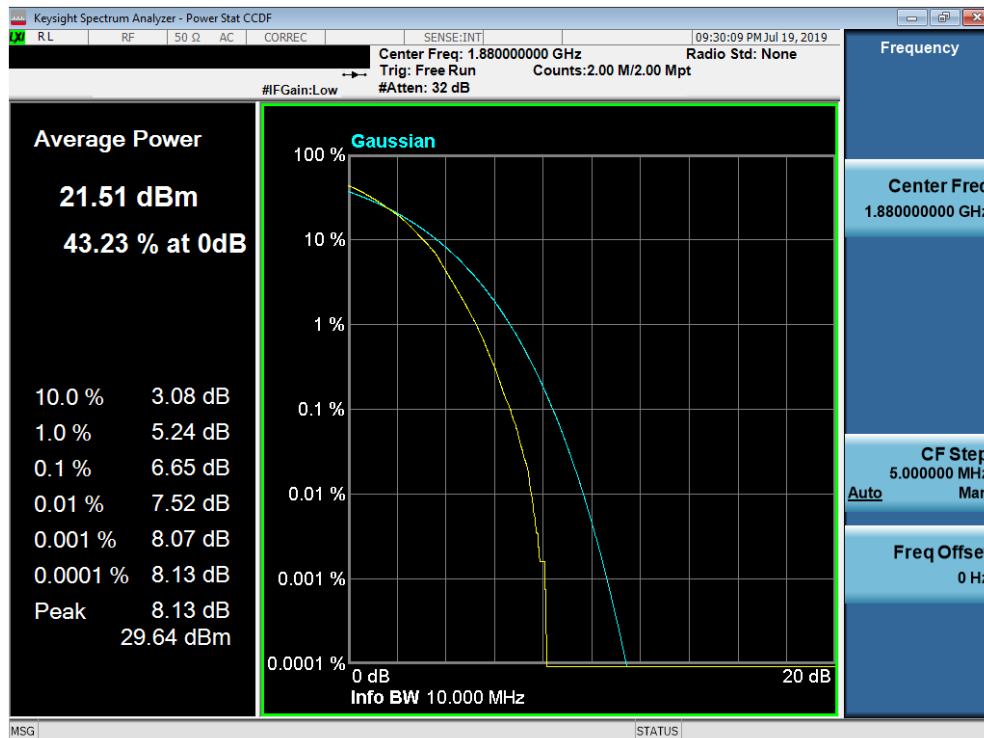


Plot 7-248. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 145 of 184

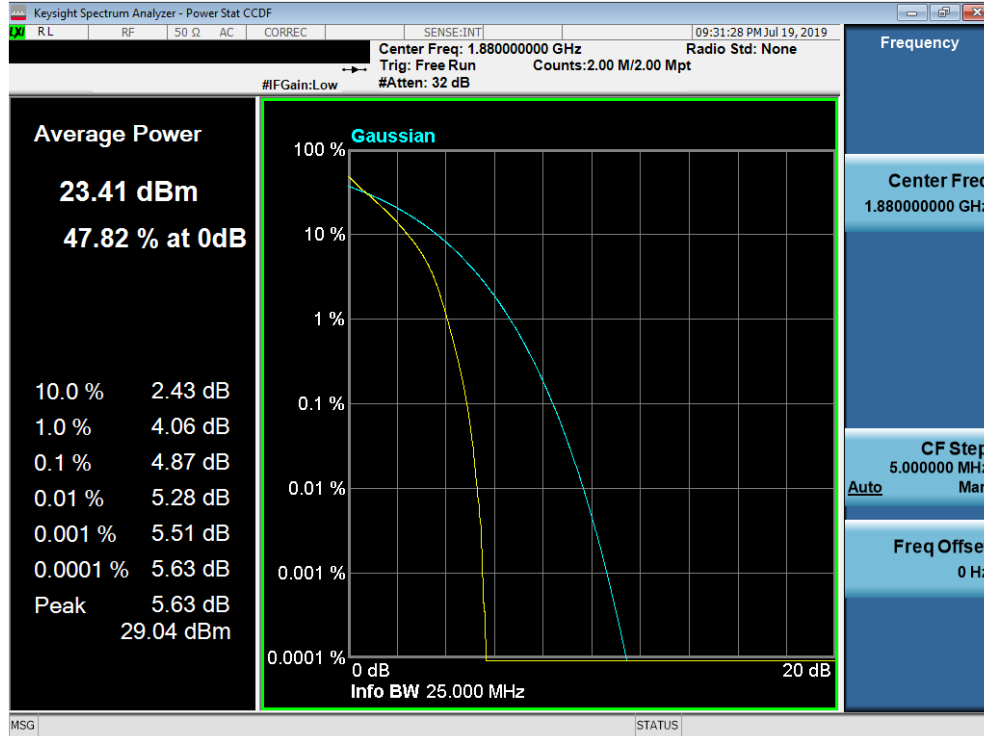


Plot 7-249. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

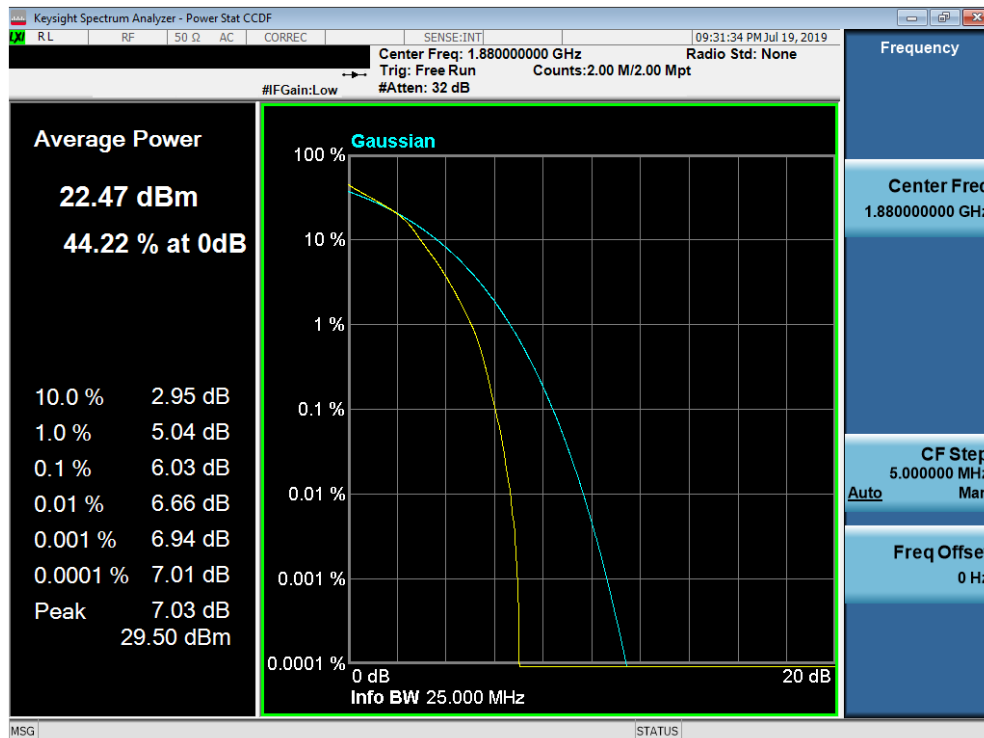


Plot 7-250. PAR Plot (Band 2 - 10.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 146 of 184

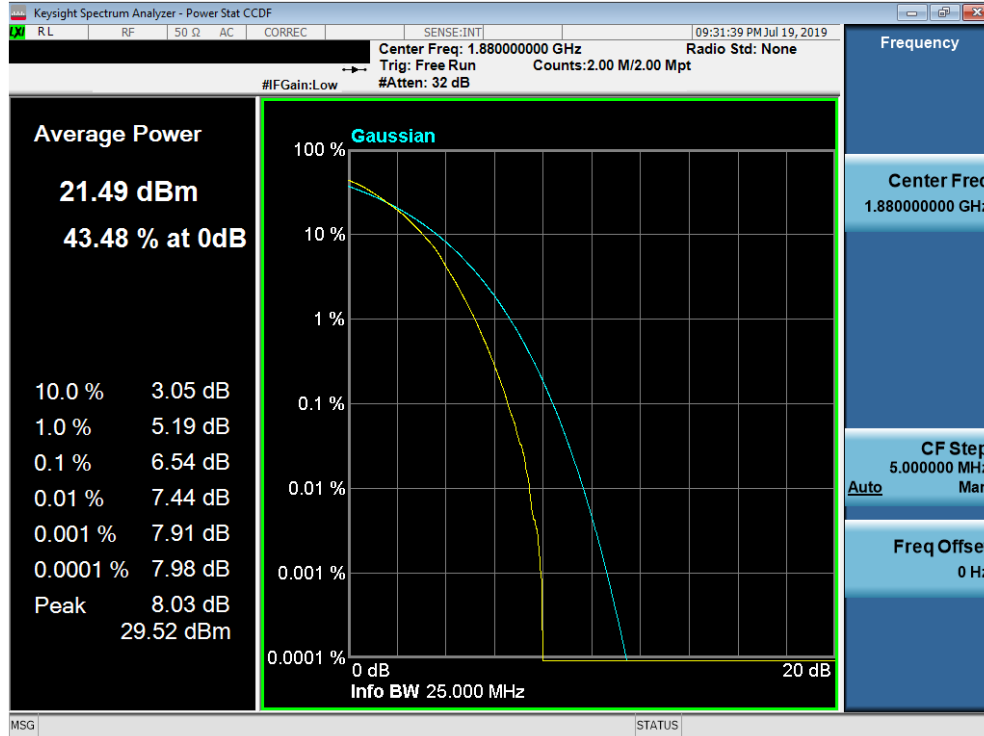


Plot 7-251. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

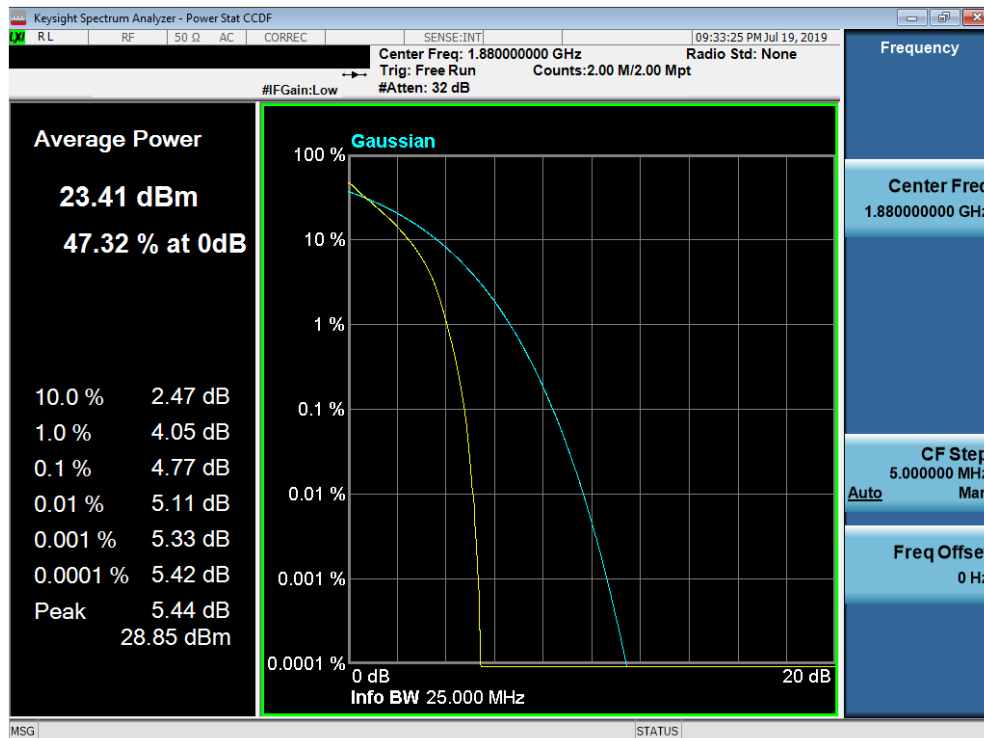


Plot 7-252. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMT545	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet	Page 147 of 184



Plot 7-253. PAR Plot (Band 2 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-254. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT545	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M1907080115-03.A3L	Test Dates: 07/13/2019 - 08/26/2019	EUT Type: Portable Tablet		Page 148 of 184