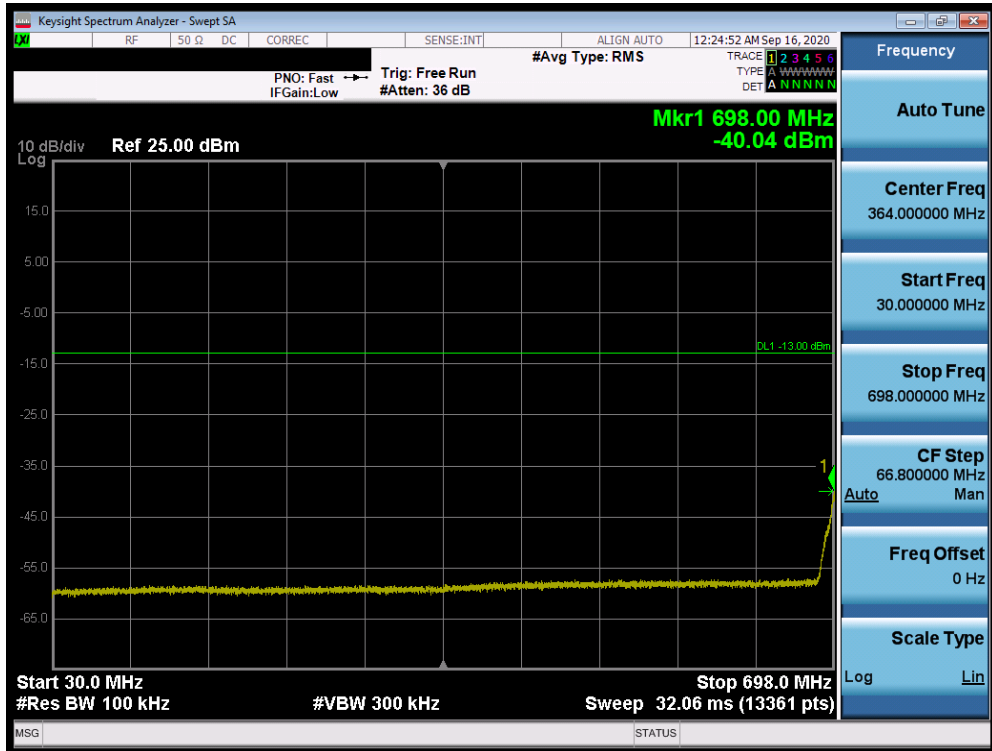
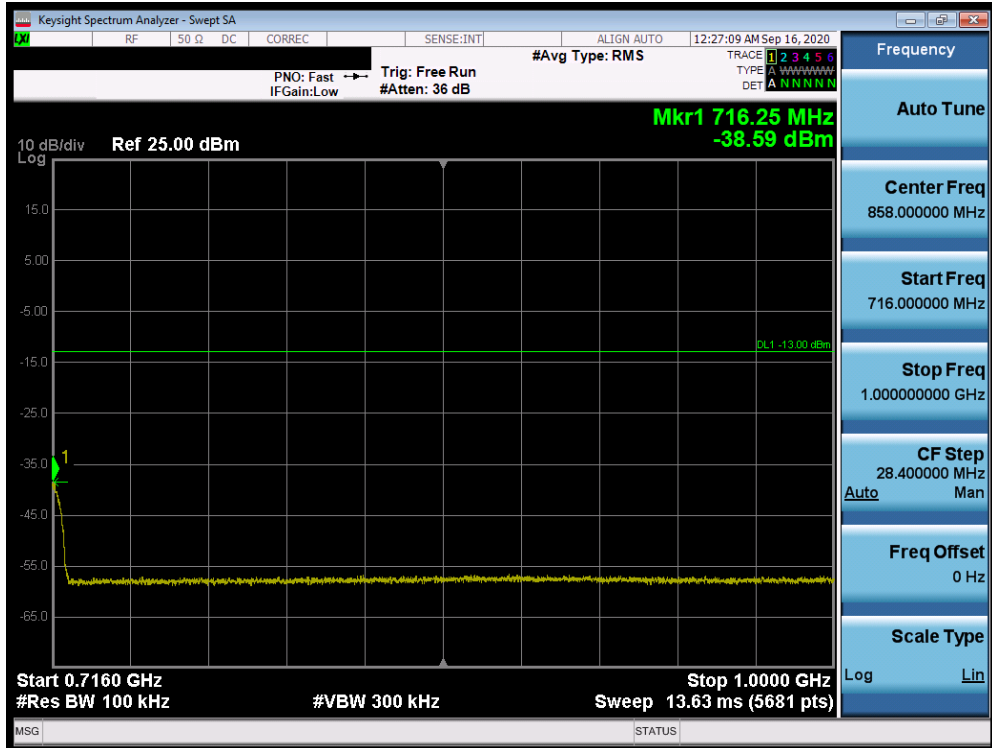


Plot 7-199. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

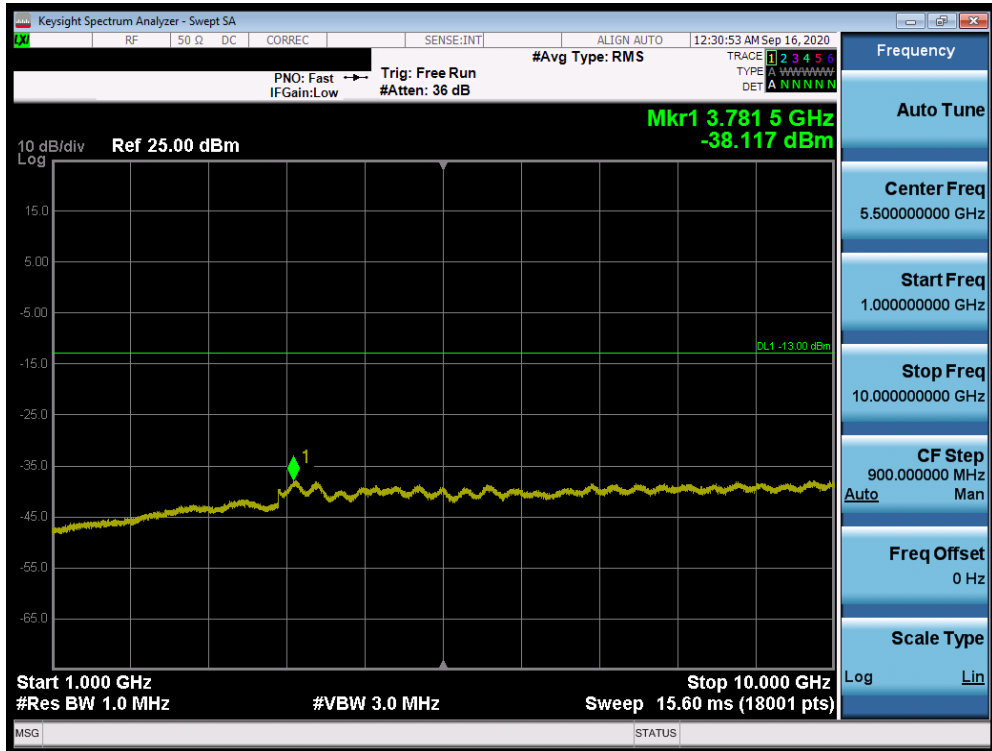


Plot 7-200. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 119 of 332

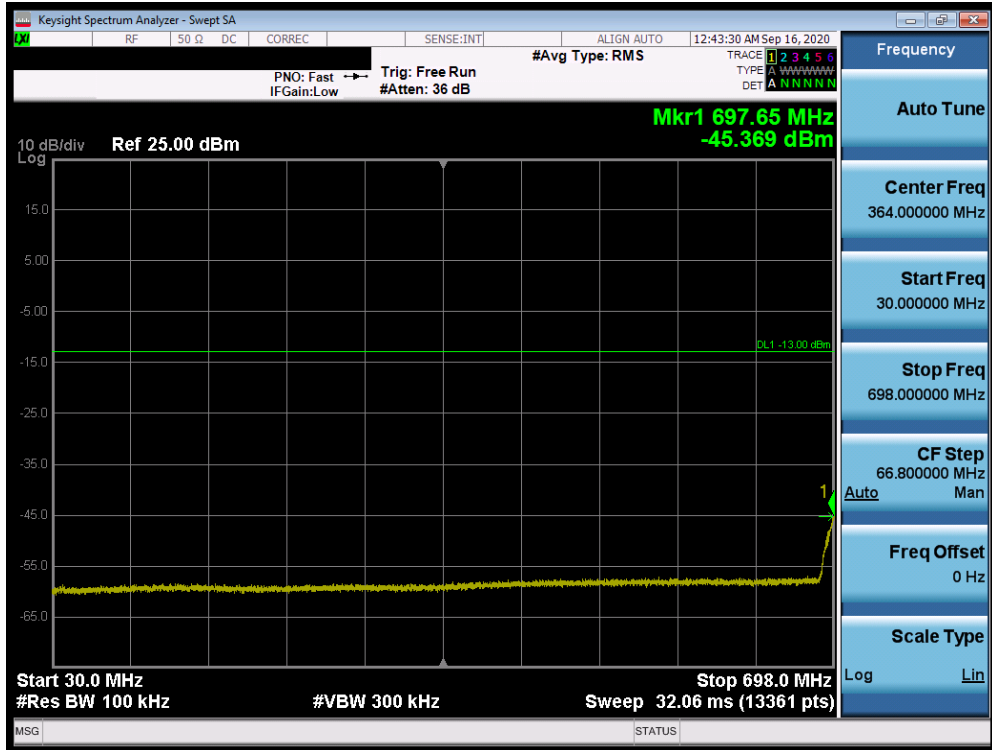


Plot 7-201. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

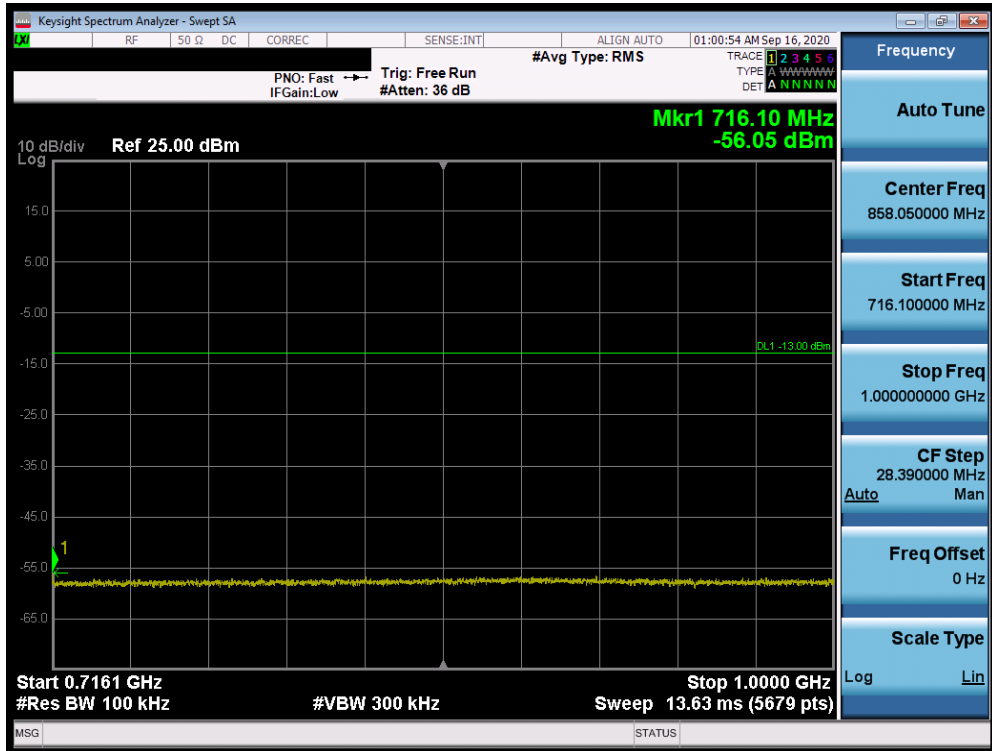


Plot 7-202. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 120 of 332

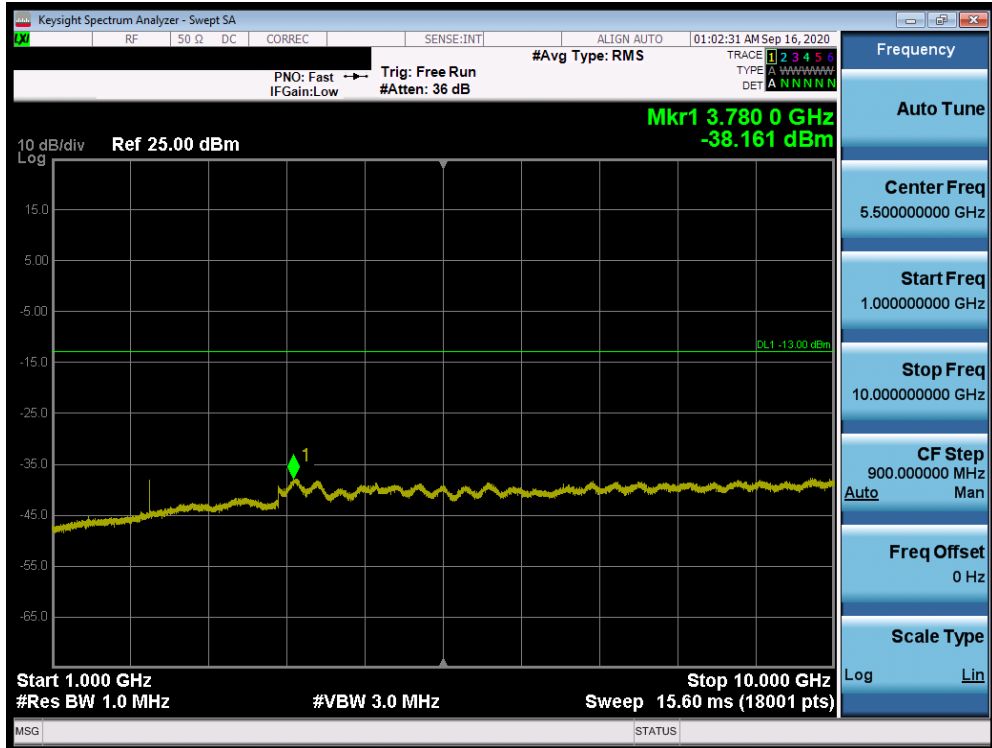


Plot 7-203. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-204. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

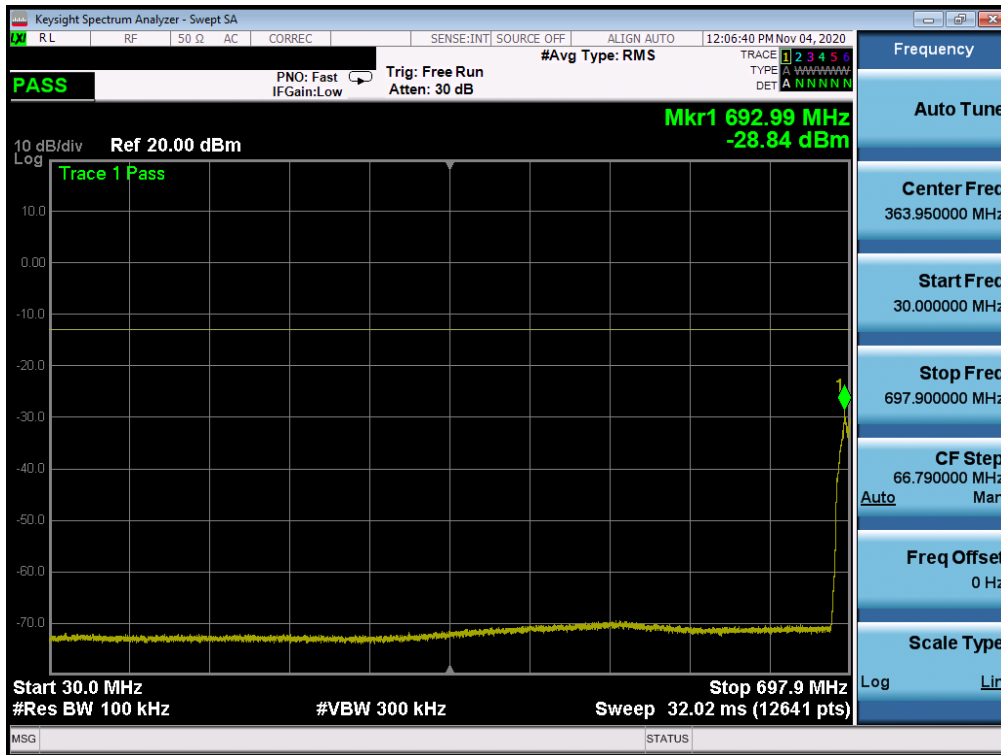
FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 121 of 332



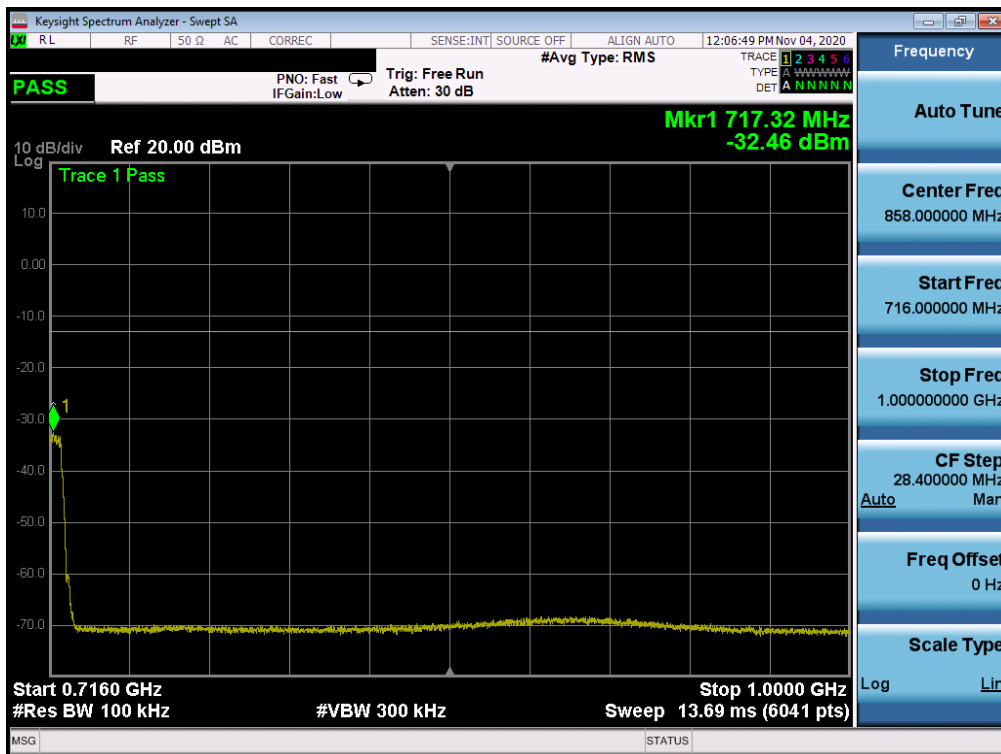
Plot 7-205. Conducted Spurious Plot (Band 12/17 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 122 of 332

NR Band n12

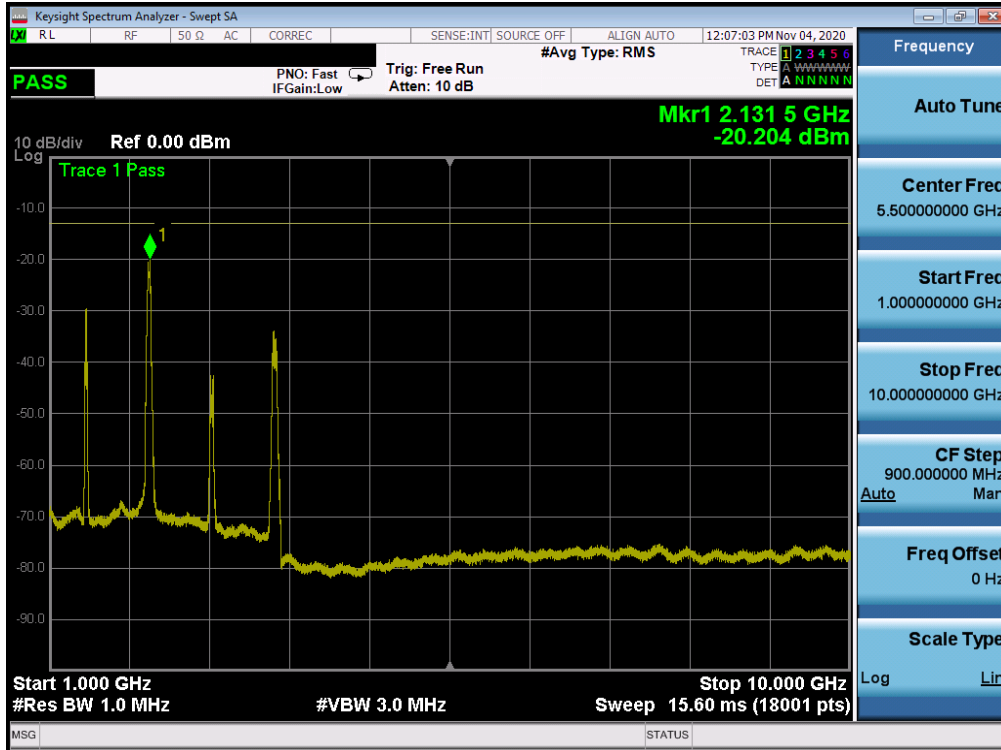


Plot 7-206. Conducted Spurious Plot (NR Band n12 -15.0MHz - RB Size 1, RB Offset 0 - Low Channel)

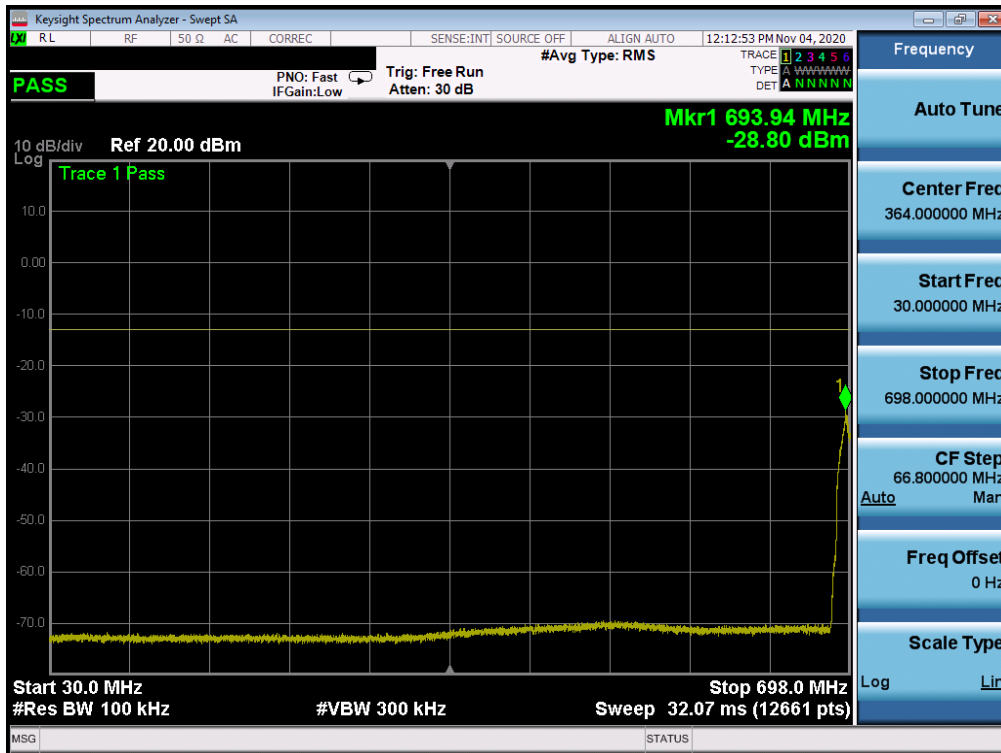


Plot 7-207. Conducted Spurious Plot (NR Band n12 - 15.0MHz - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 123 of 332

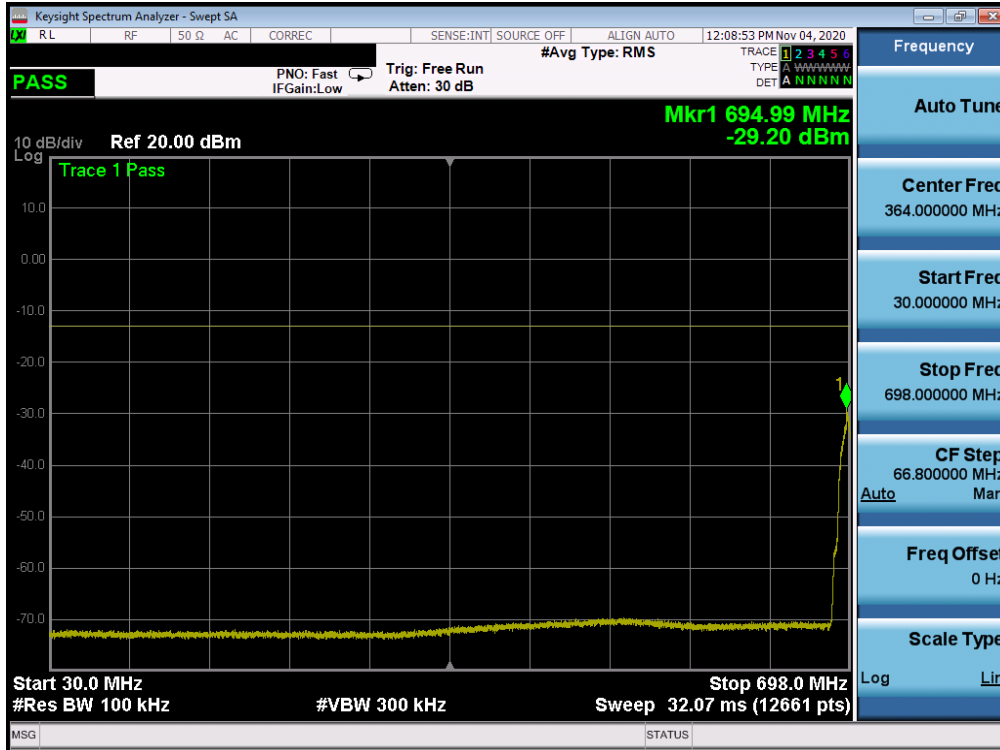


Plot 7-208. Conducted Spurious Plot (NR Band n12 - 15.0MHz - RB Size 1, RB Offset 0 - Low Channel)

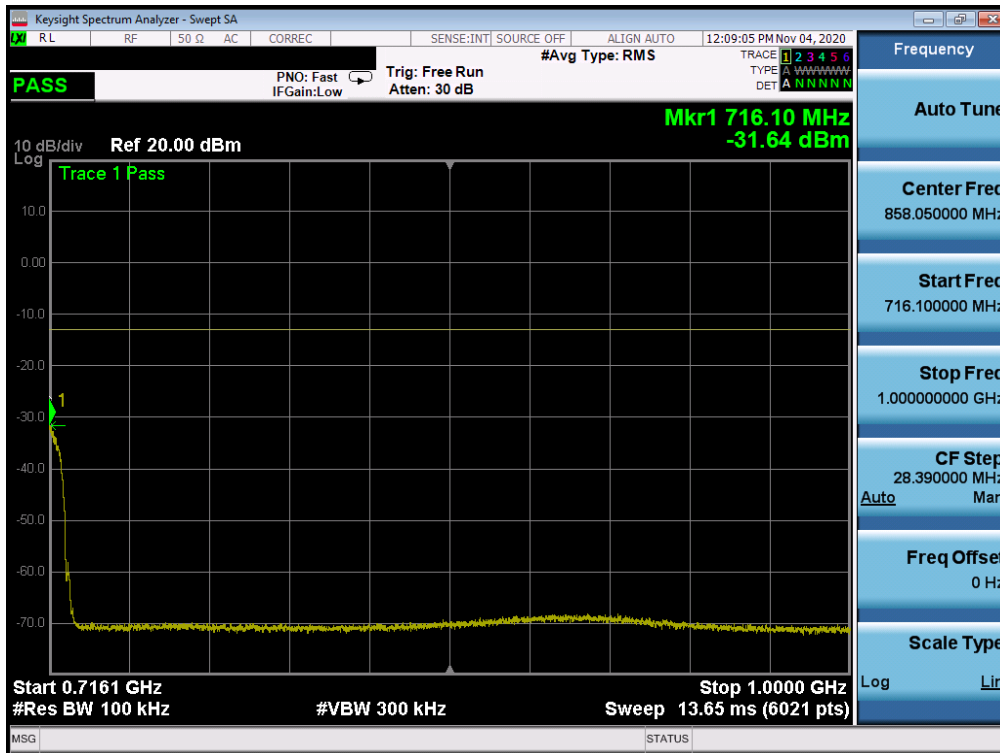


Plot 7-209. Conducted Spurious Plot (NR Band n12 - 15.0MHz - RB Size 1, RB Offset 0 - Mid Channel)



FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 - 12/05/2020	EUT Type: Portable Handset		Page 124 of 332

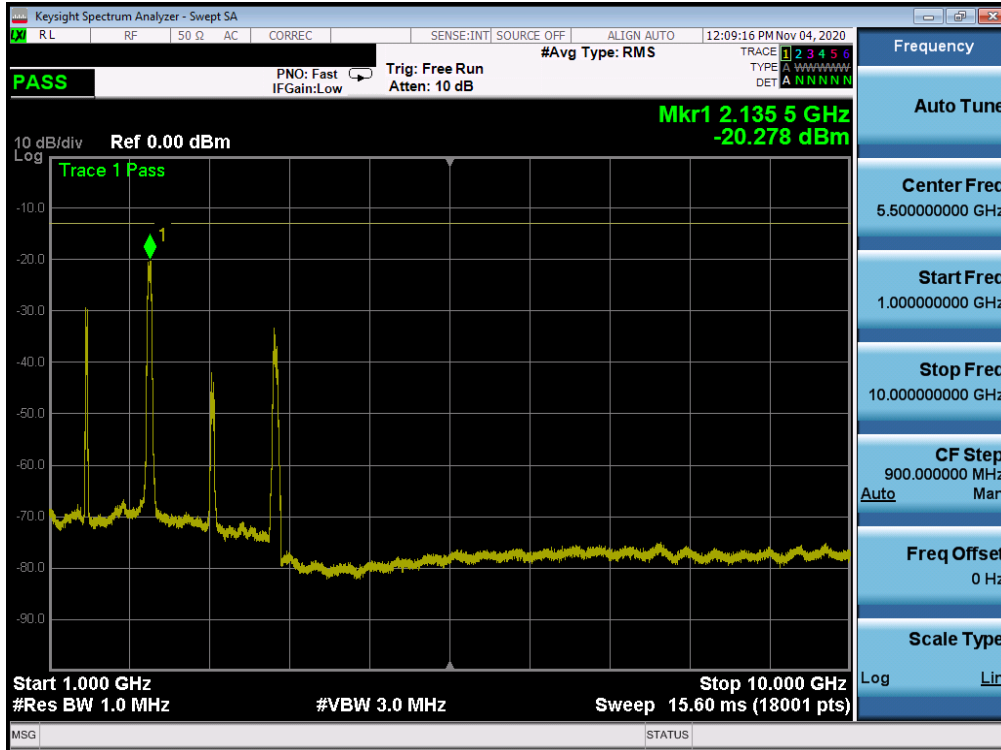


Plot 7-212. Conducted Spurious Plot (NR Band n12 - 15.0MHz - RB Size 1, RB Offset 0 - High Channel)





Plot 7-213. Conducted Spurious Plot (NR Band n12 - 15.0MHz - RB Size 1, RB Offset 0 - High Channel)

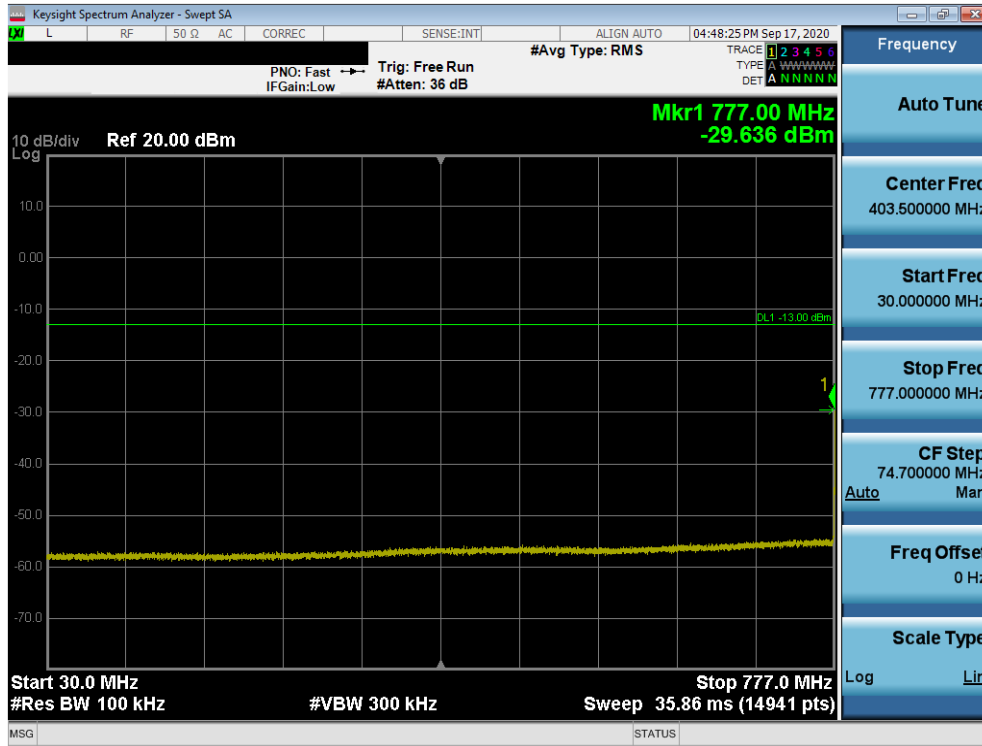
FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 126 of 332



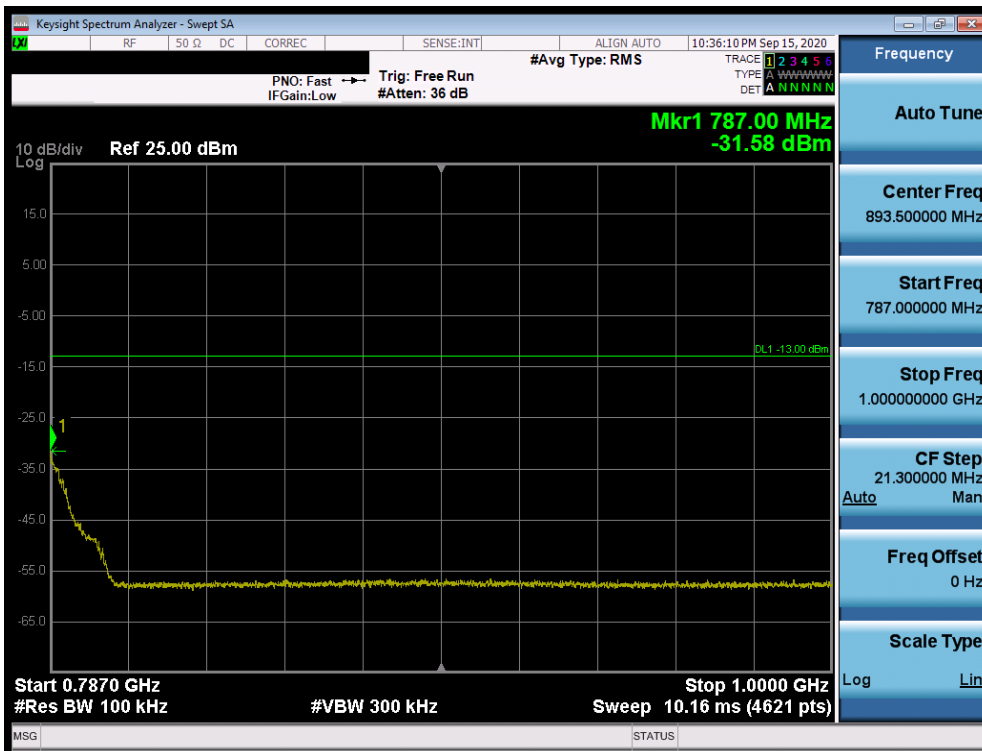
Plot 7-214. Conducted Spurious Plot (NR Band n12 - 15.0MHz - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT	 Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset	Page 127 of 332

Band 13



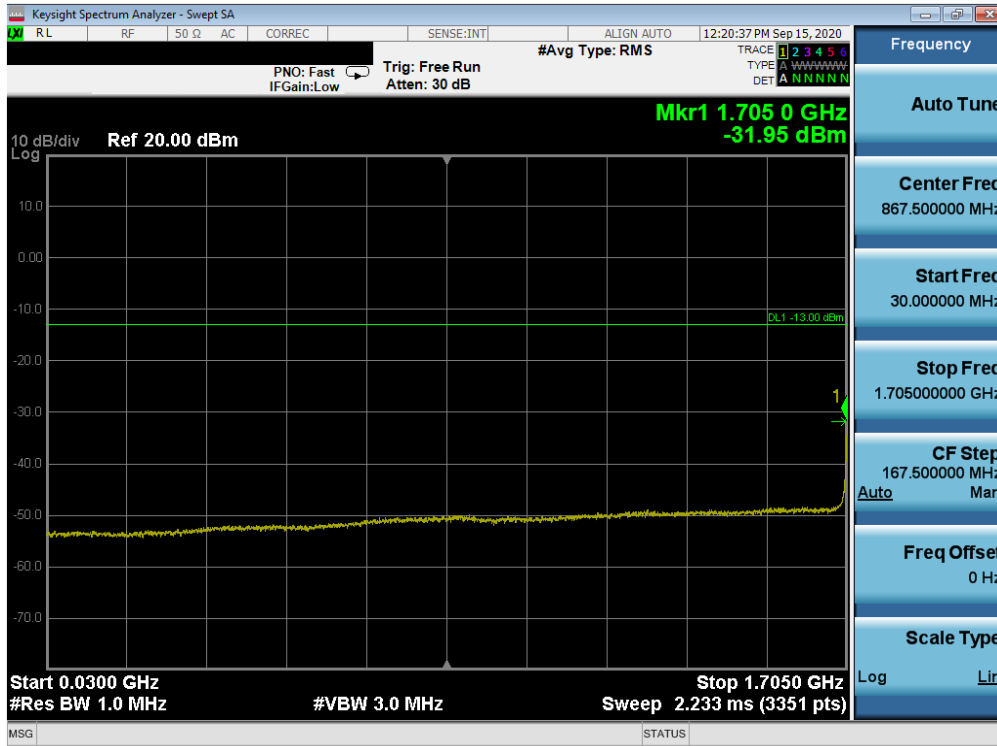
Plot 7-215. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)



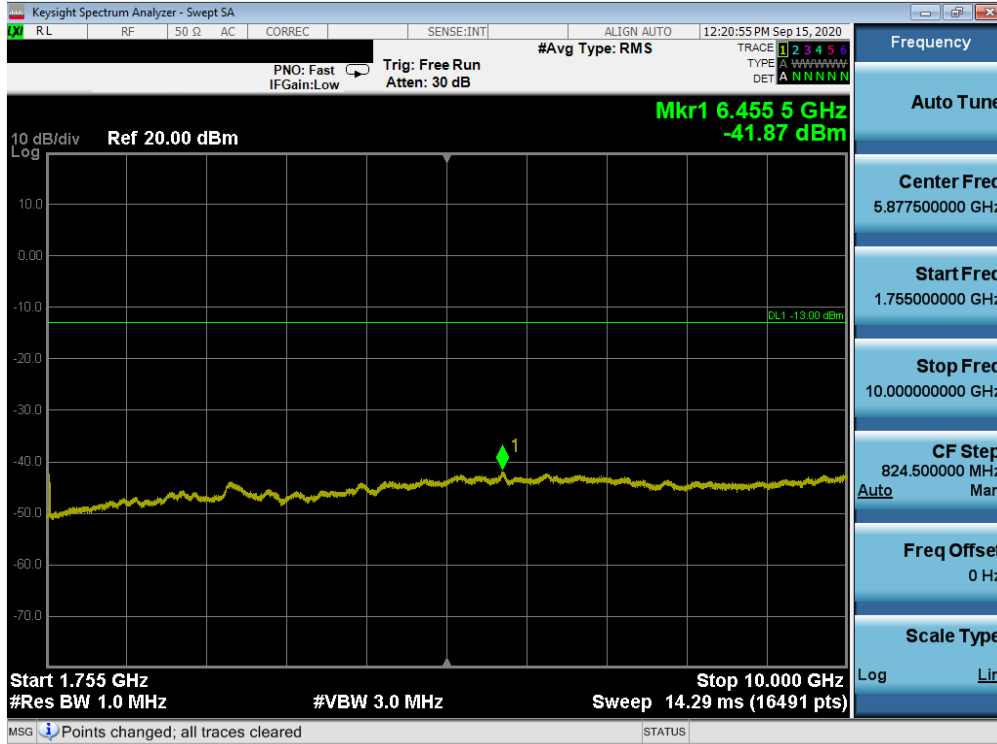
Plot 7-216. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 128 of 332

WCDMA AWS

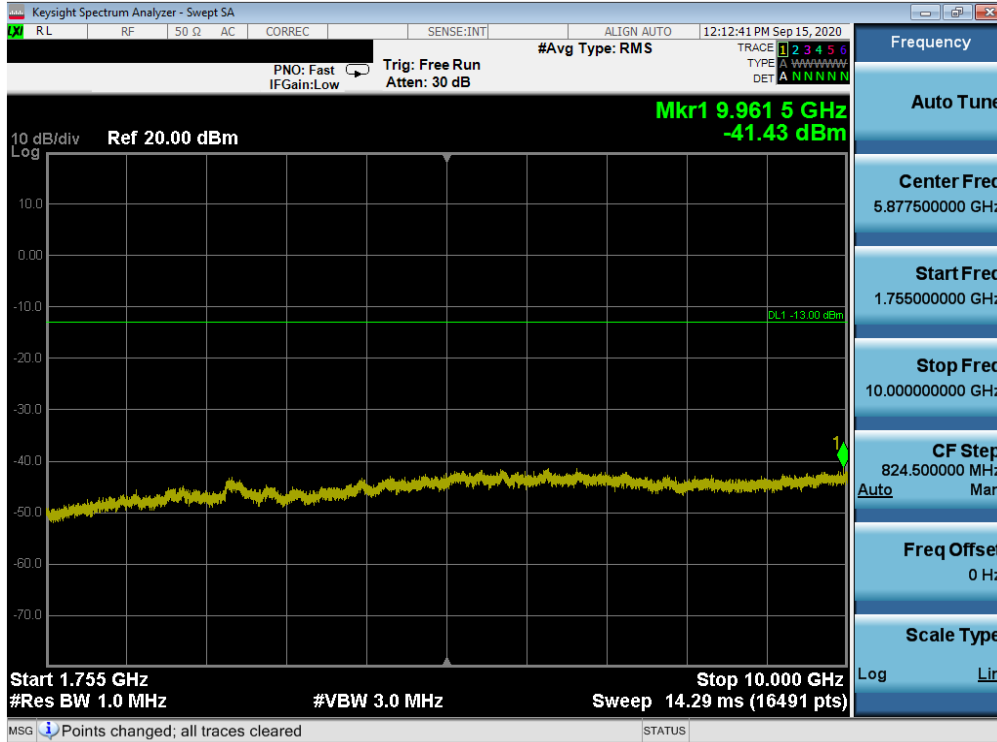


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel)



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1312- Low Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 130 of 332



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)

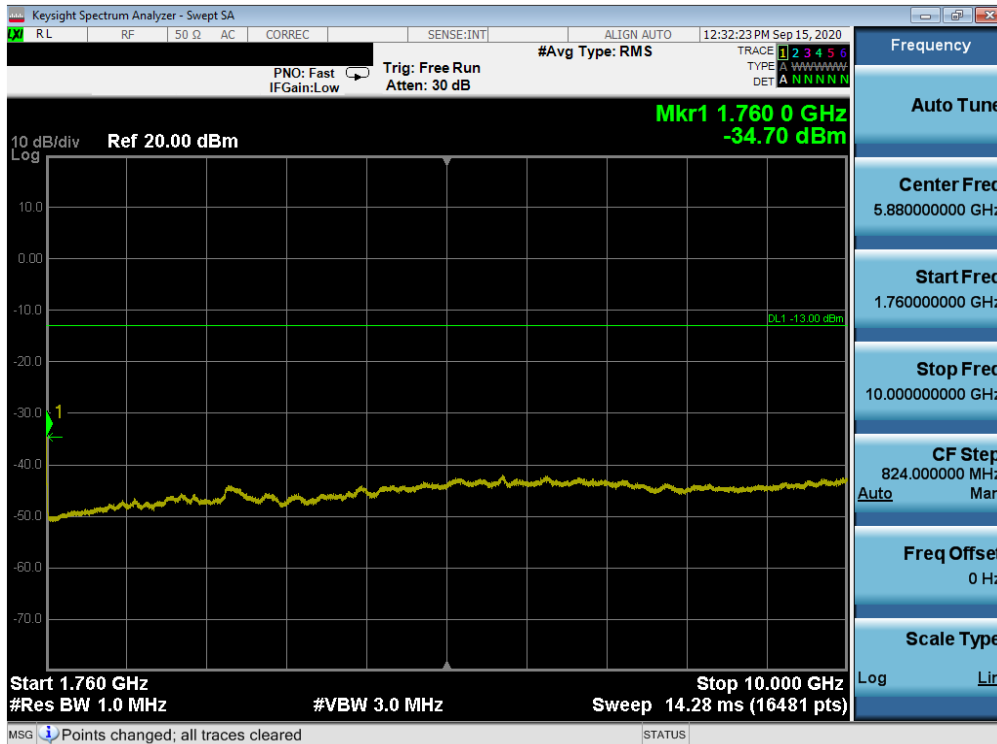


Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 132 of 332



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 133 of 332



Plot 7-31. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 134 of 332

7.4 Band Edge Emissions at Antenna Terminal

Test Overview

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

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, 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 > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
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.

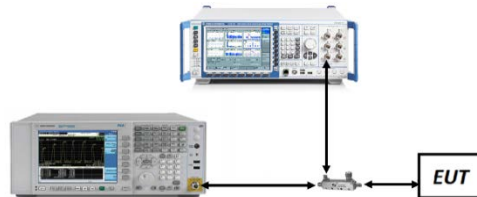
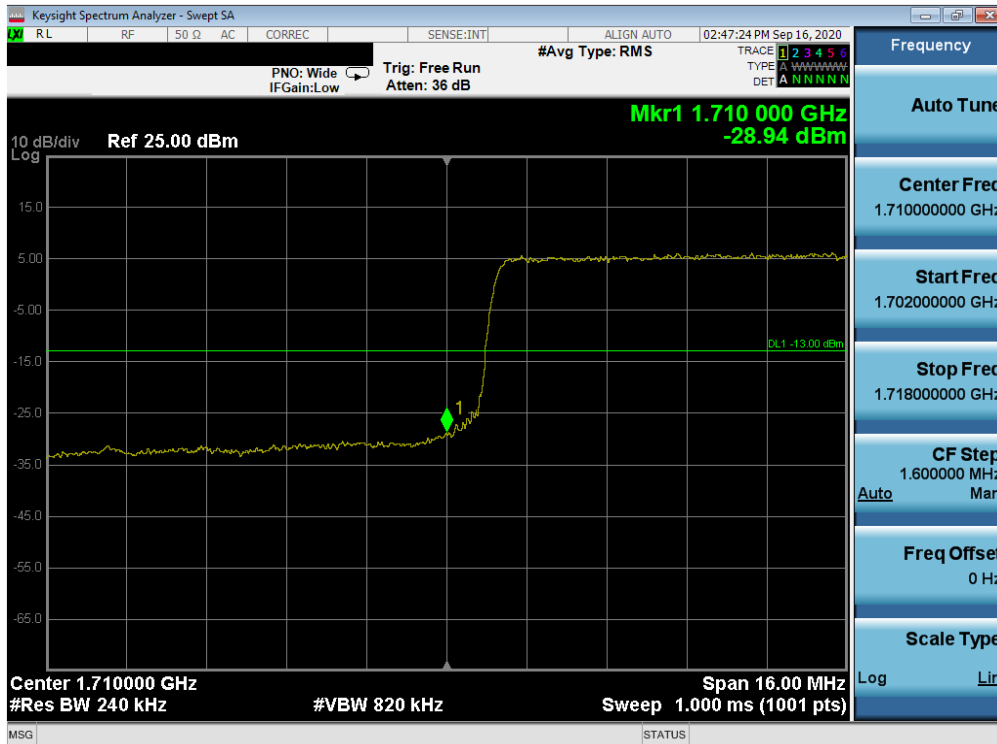


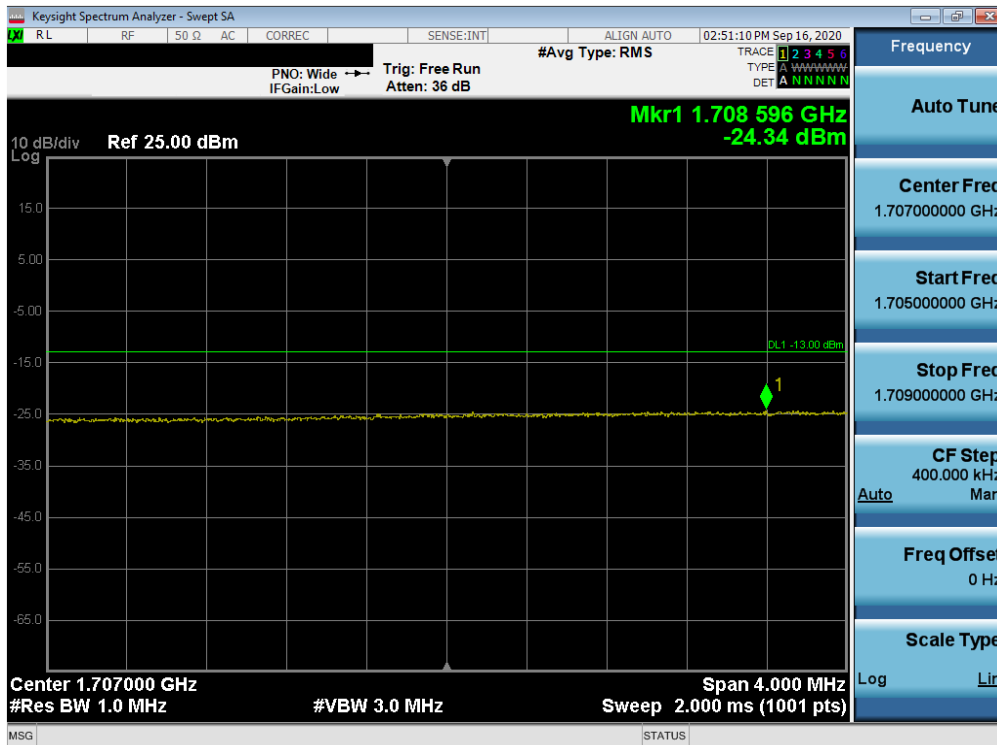
Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 135 of 332

LTE Band 66/4



Plot 7-218. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)



Plot 7-219. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 136 of 332

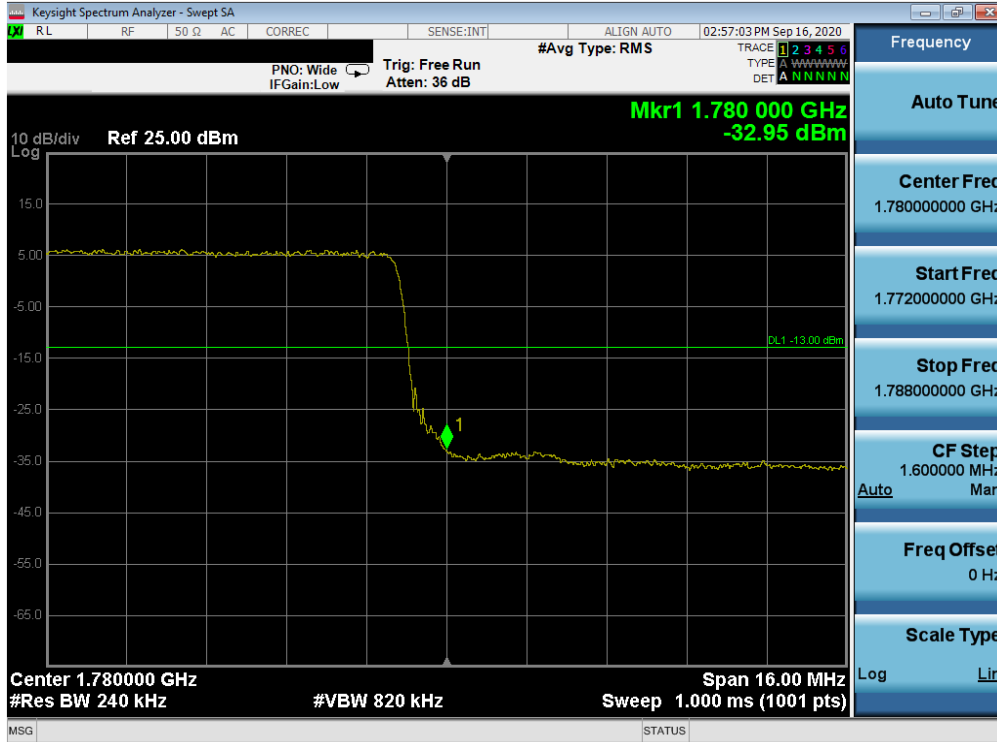


Plot 7-220. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

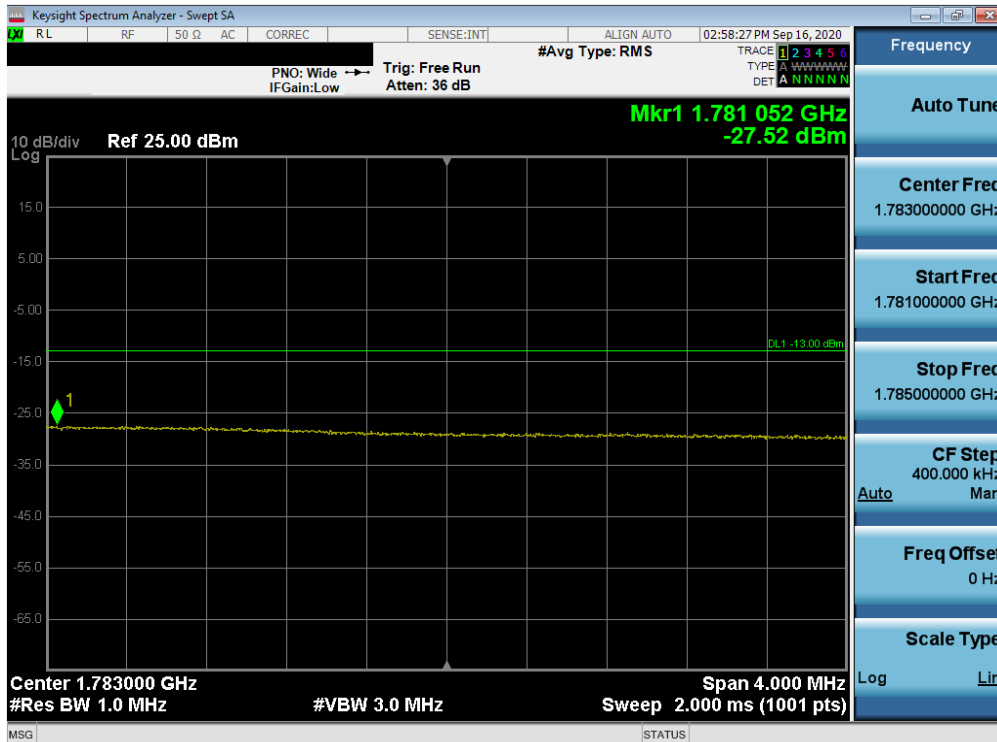


Plot 7-221. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 137 of 332

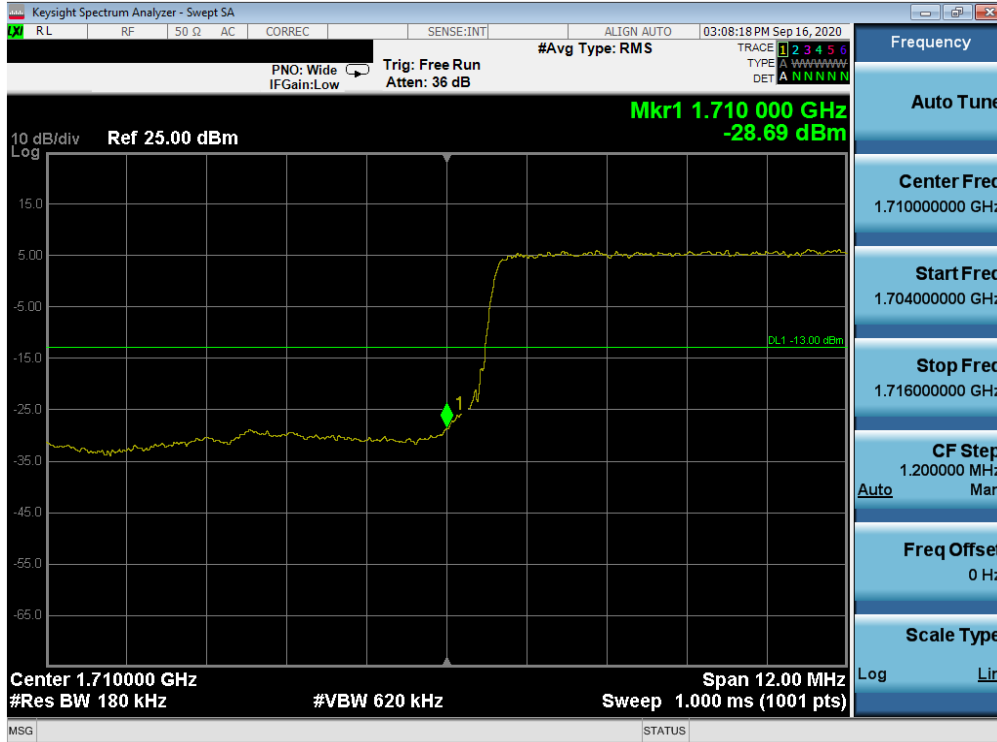


Plot 7-222. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)



Plot 7-223. Channel Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 138 of 332

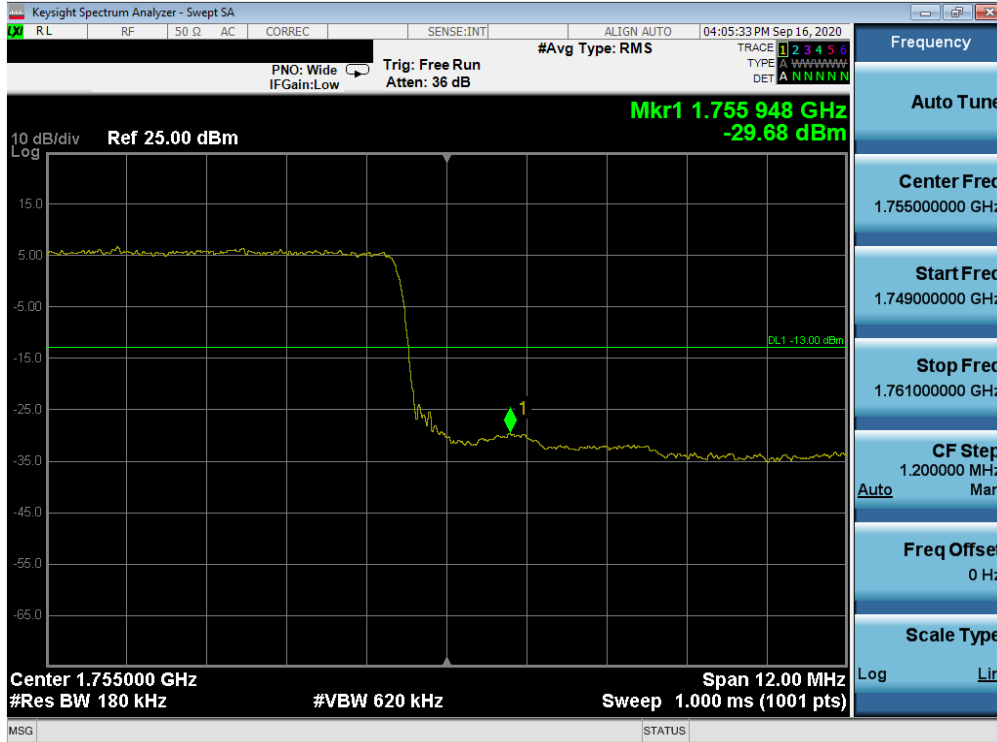


Plot 7-224. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)



Plot 7-225. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 139 of 332



Plot 7-226. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)

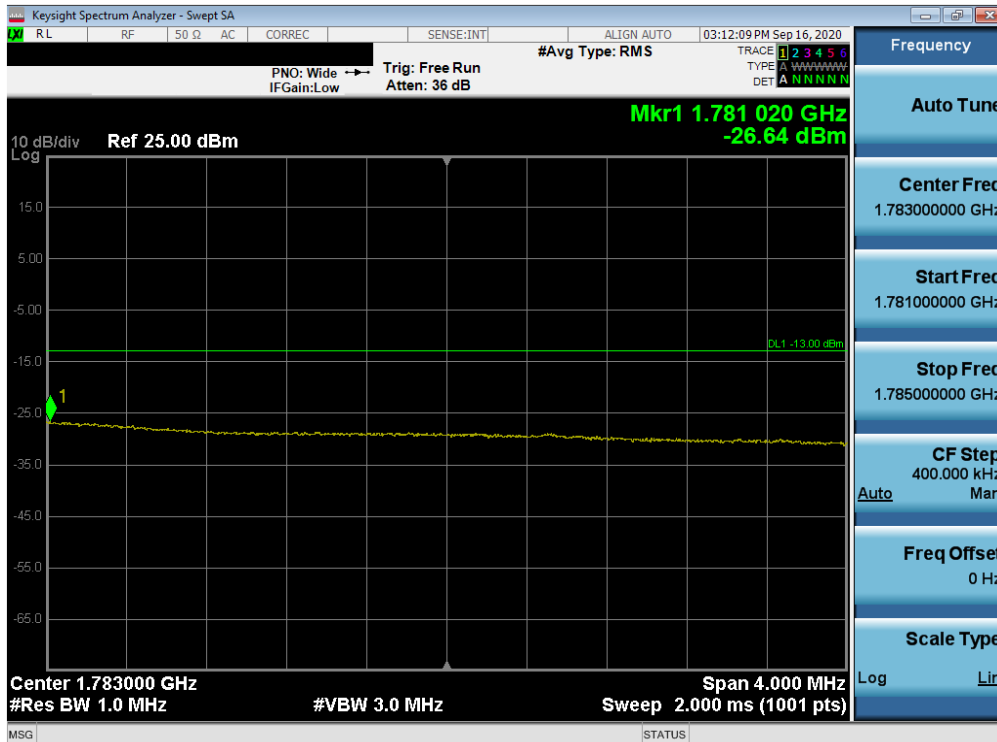


Plot 7-227. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 140 of 332

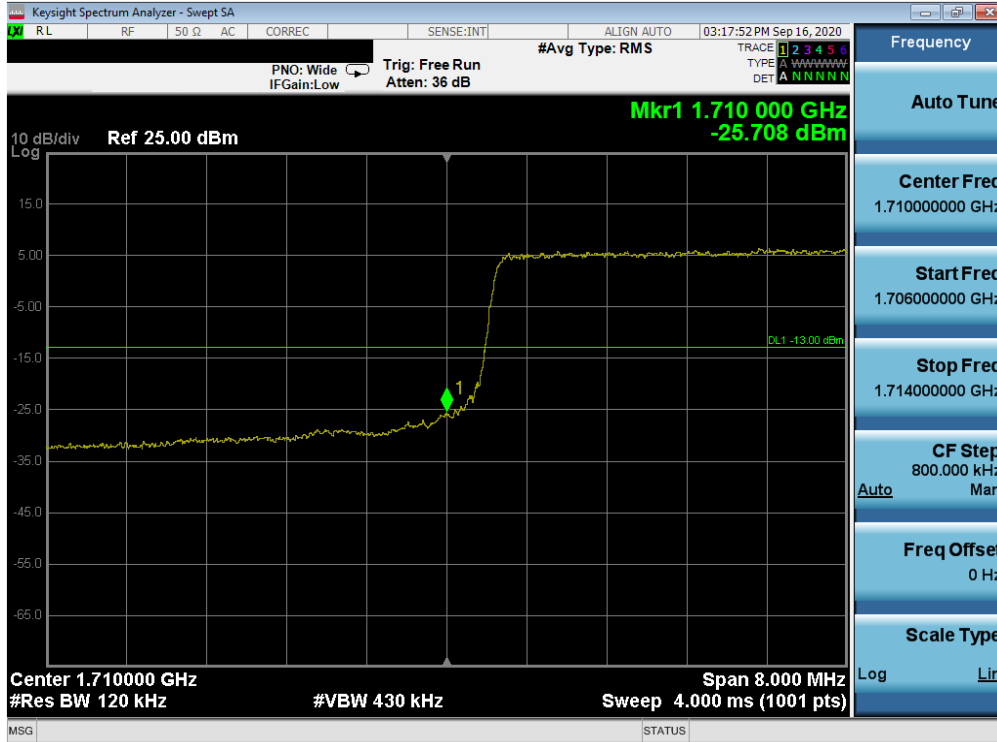


Plot 7-228. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

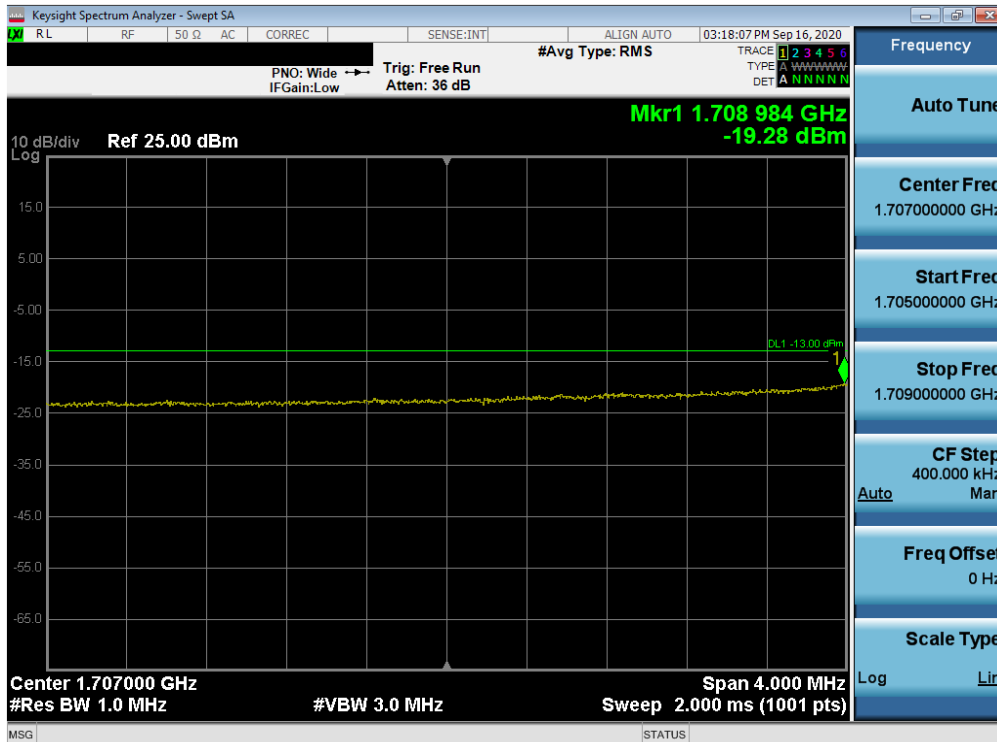


Plot 7-229. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 141 of 332



Plot 7-230. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

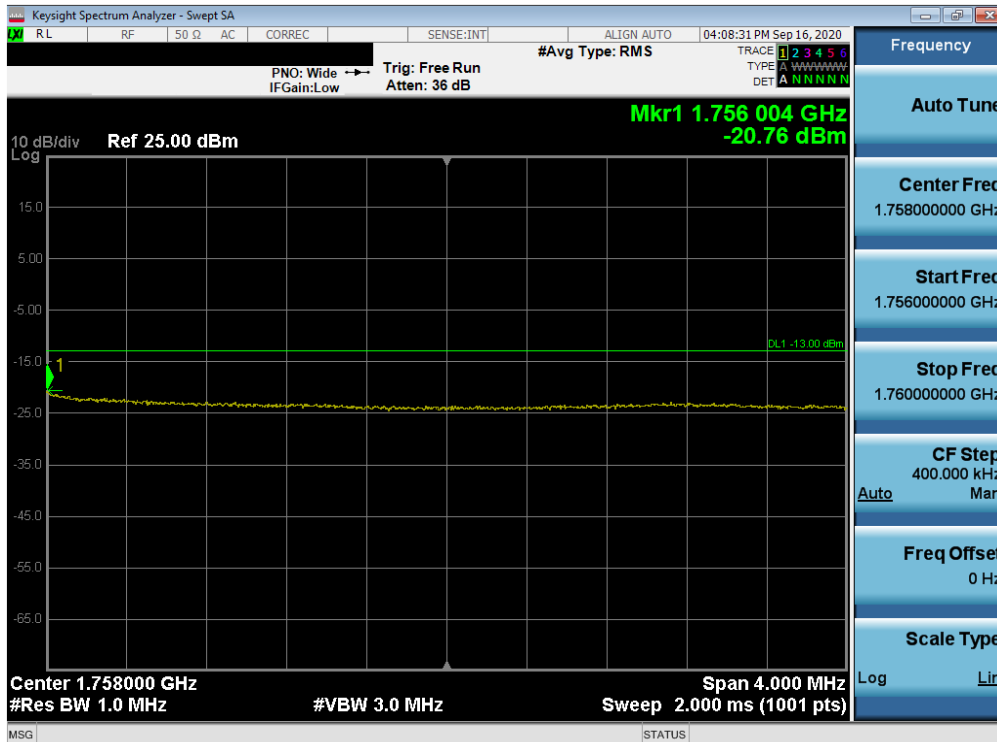


Plot 7-231. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 142 of 332

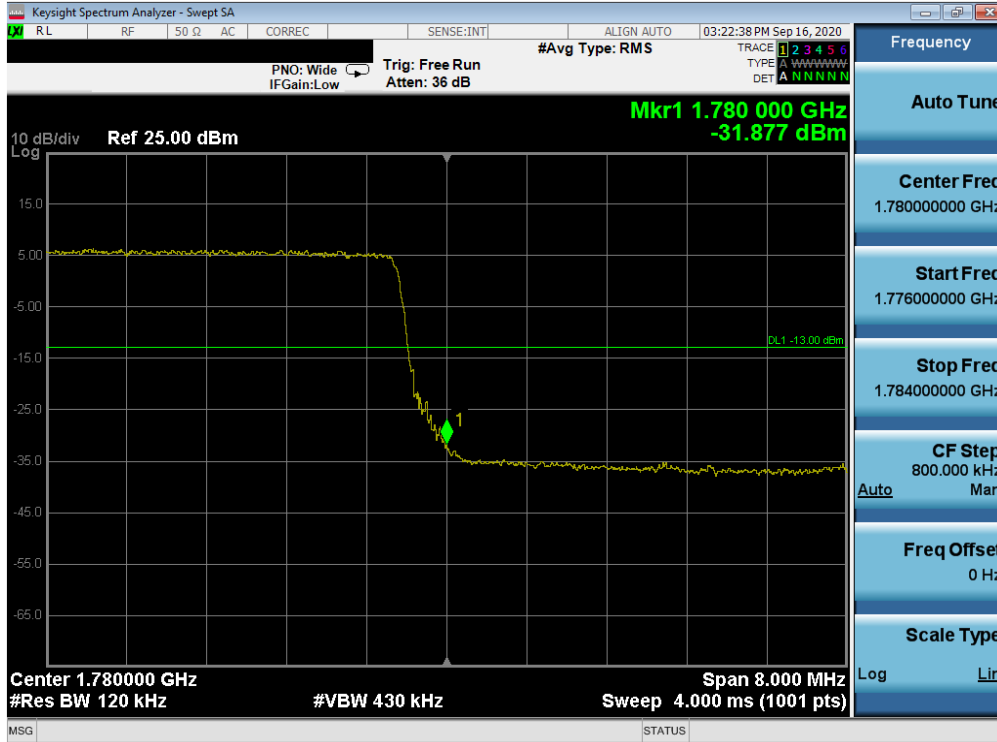


Plot 7-232. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)

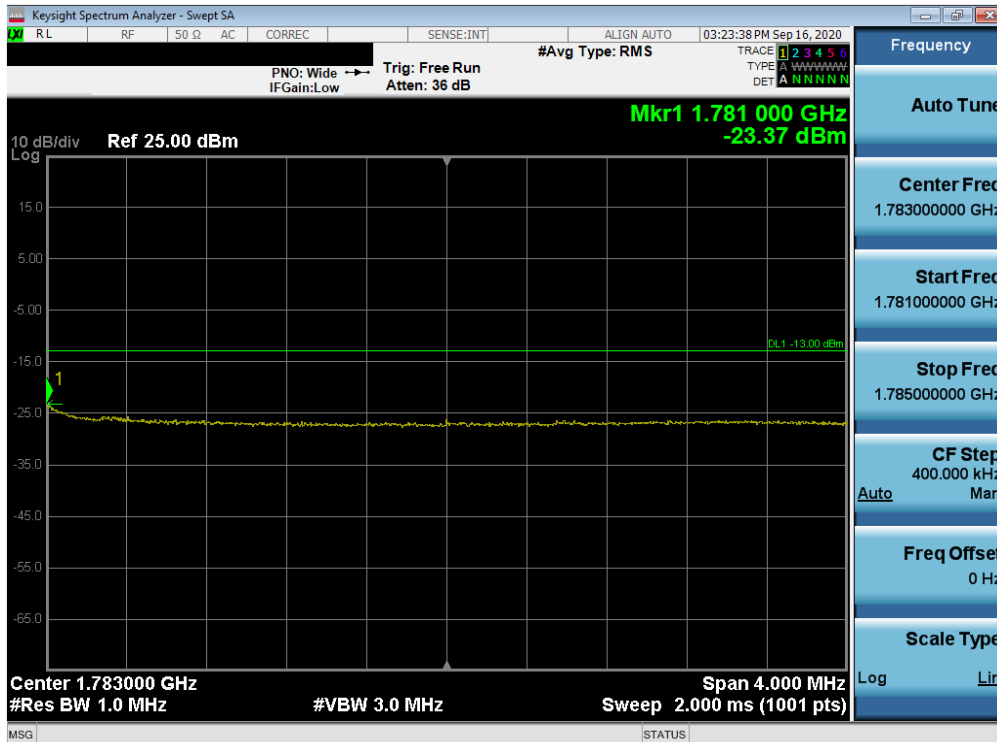


Plot 7-233. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 143 of 332

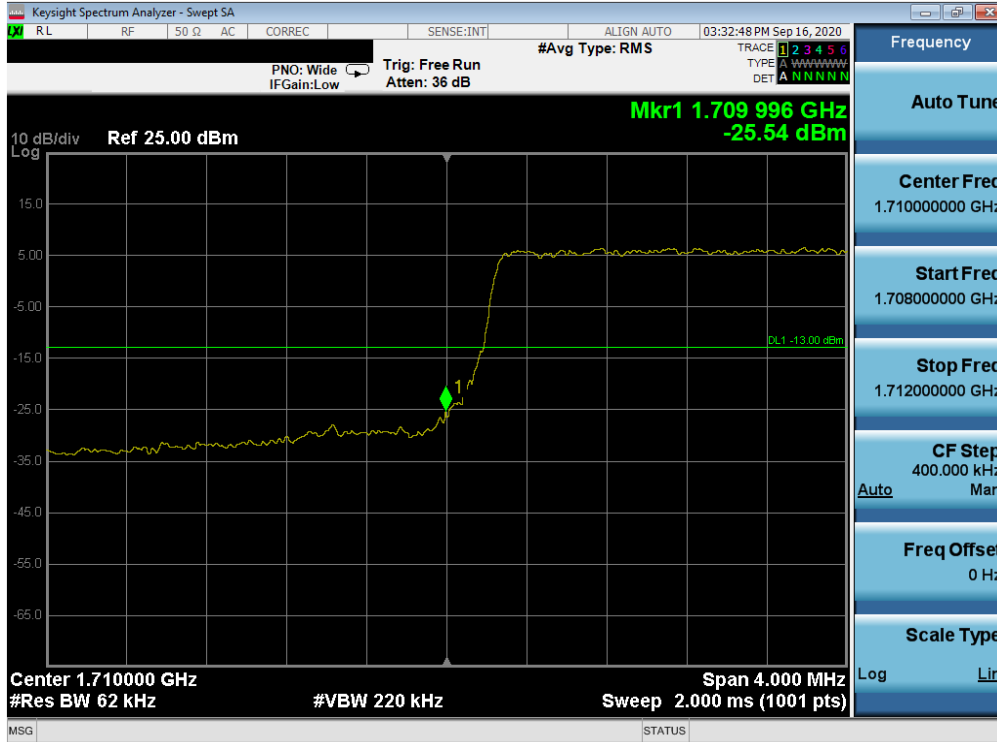


Plot 7-234. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

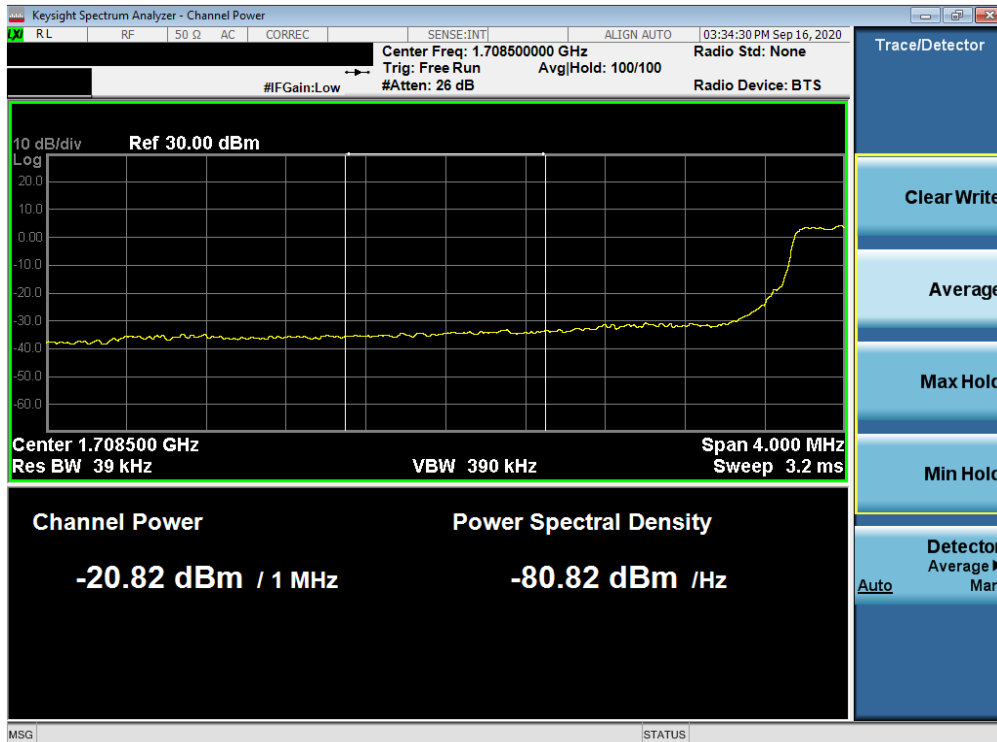


Plot 7-235. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 144 of 332



Plot 7-236. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

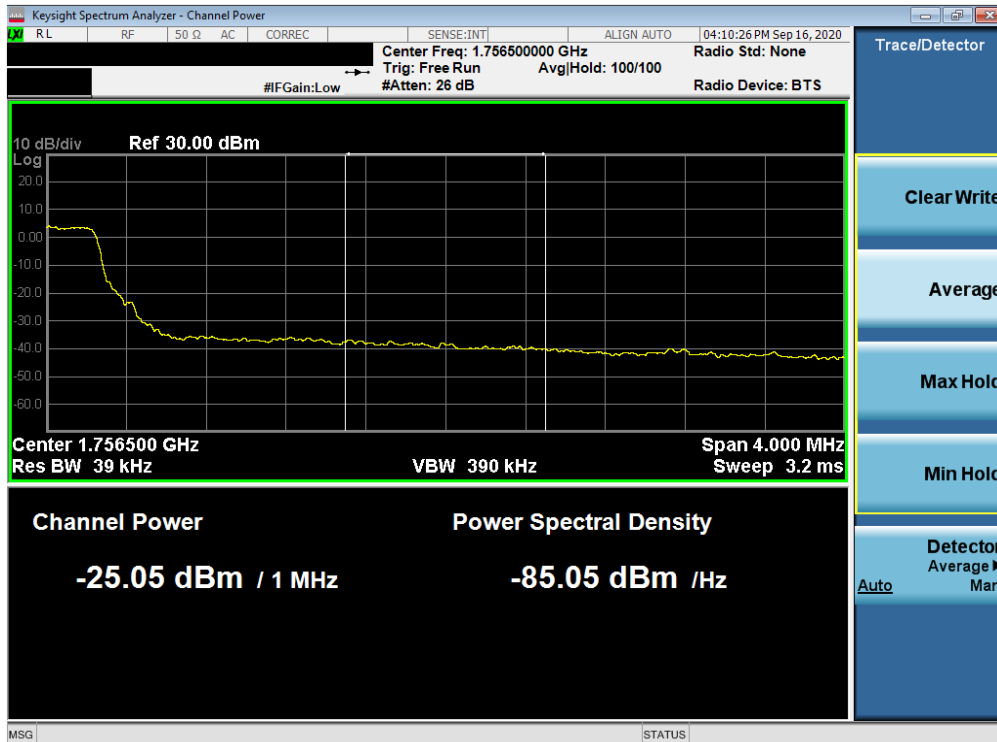


Plot 7-237. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 145 of 332



Plot 7-238. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)

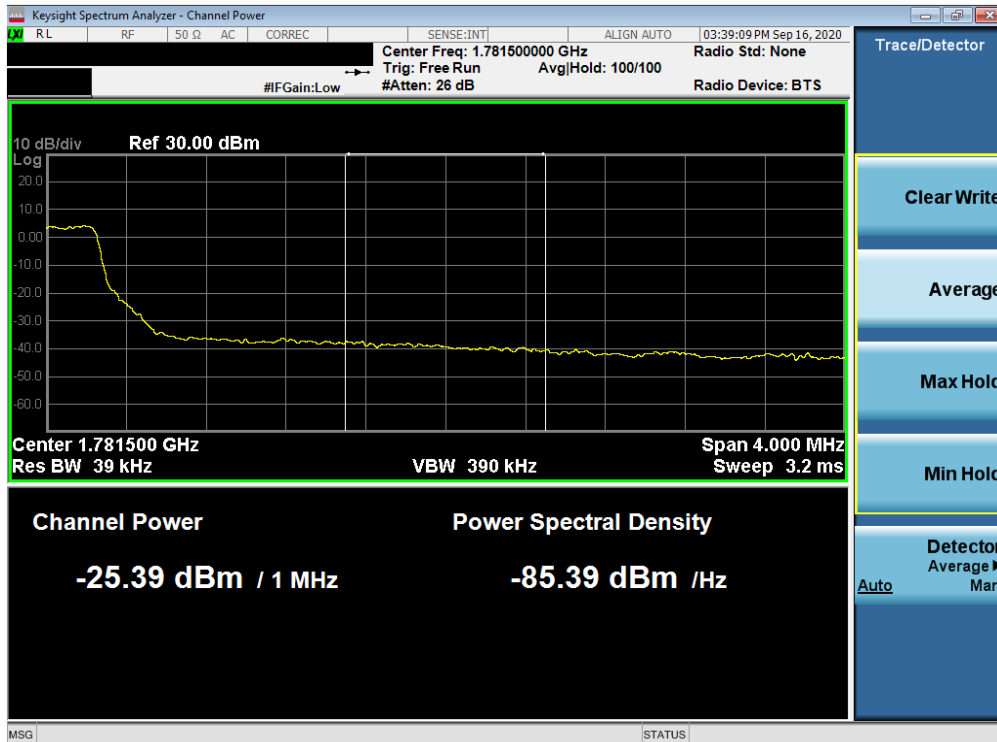


Plot 7-239. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 146 of 332

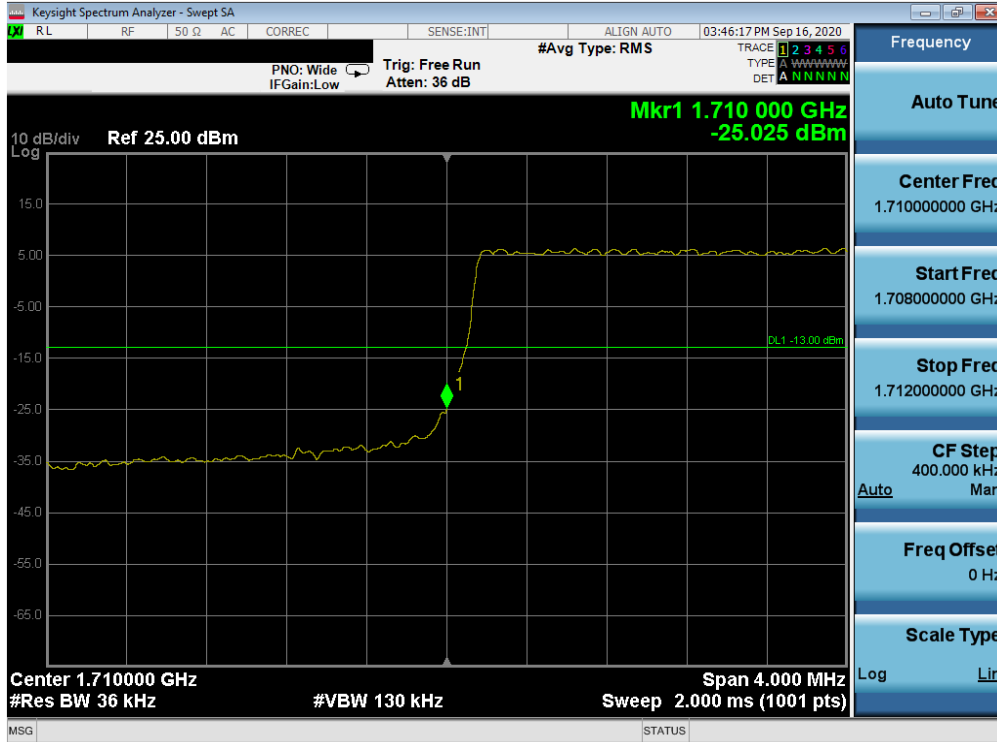


Plot 7-240. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB Configuration)

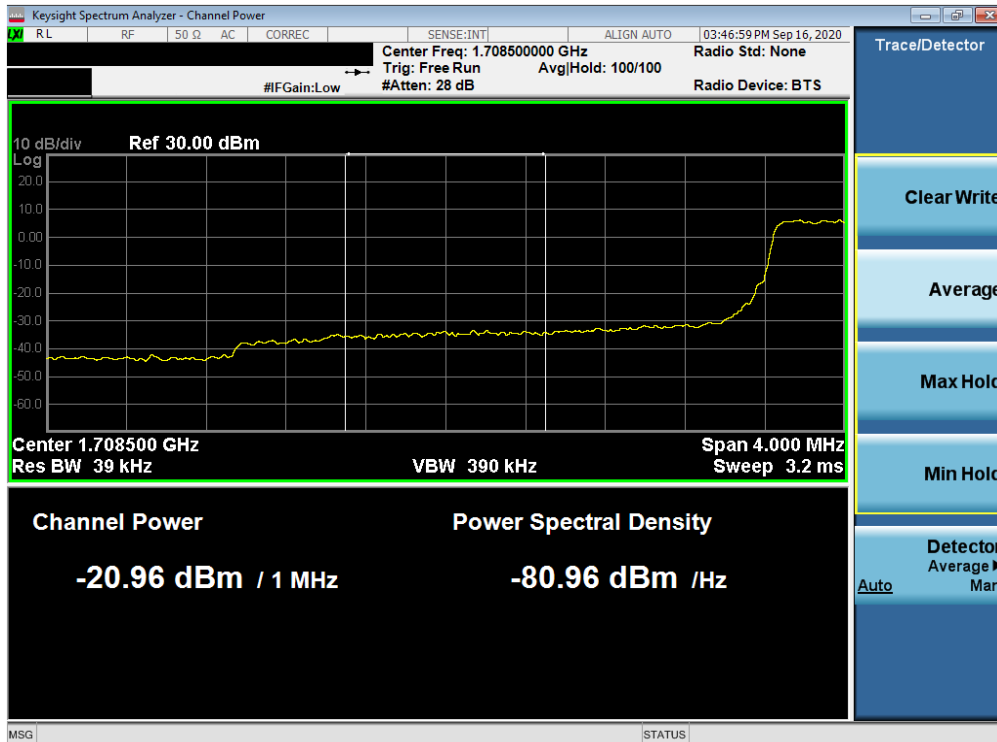


Plot 7-241. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 147 of 332



Plot 7-242. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB Configuration)

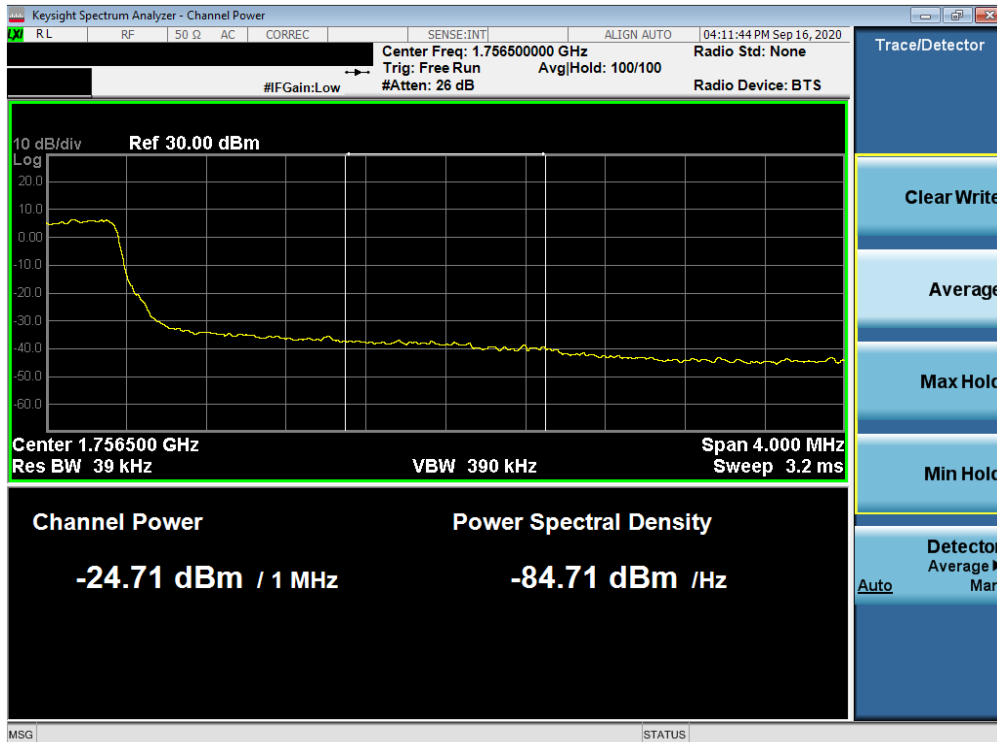


Plot 7-243. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 148 of 332



Plot 7-244. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB Configuration)

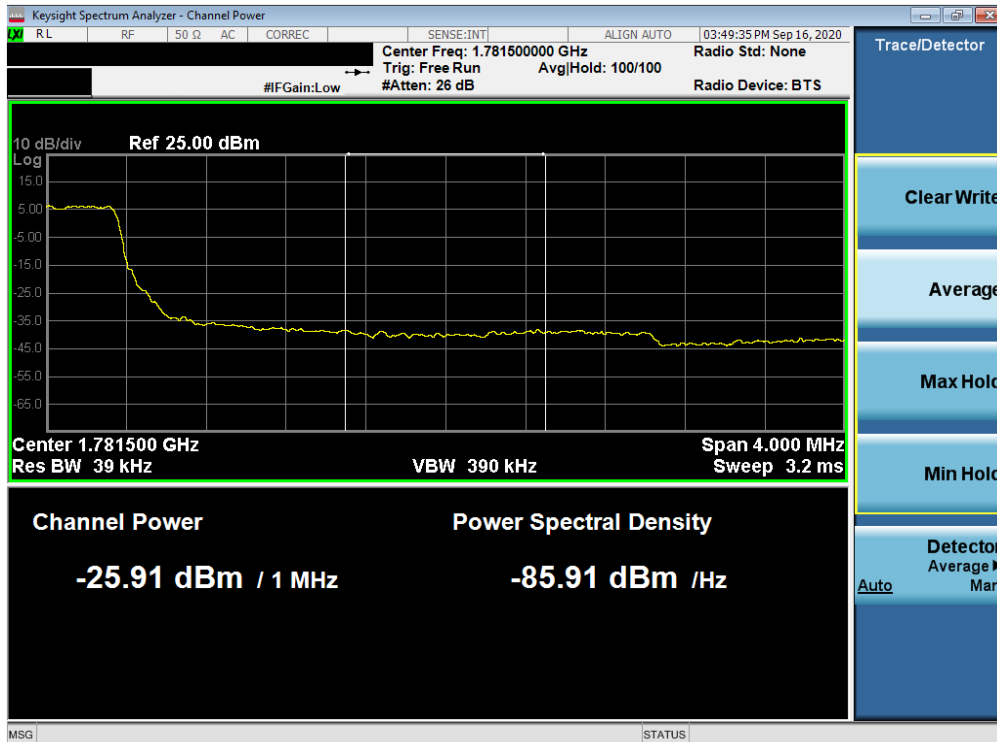


Plot 7-245. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 149 of 332



Plot 7-246. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB Configuration)

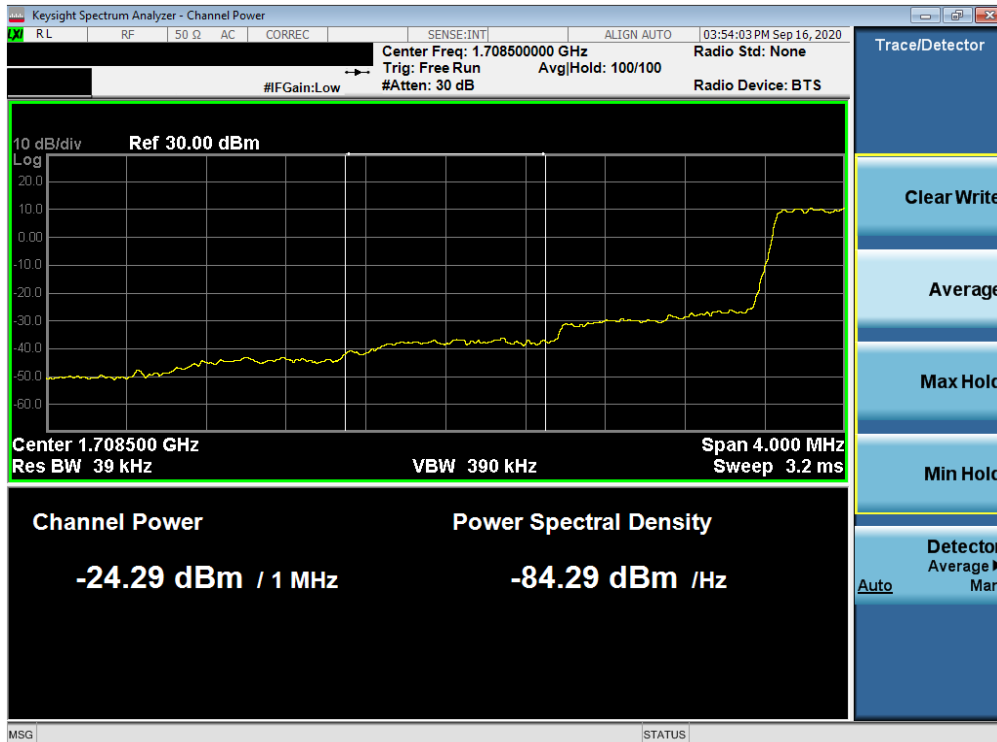


Plot 7-247. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 150 of 332

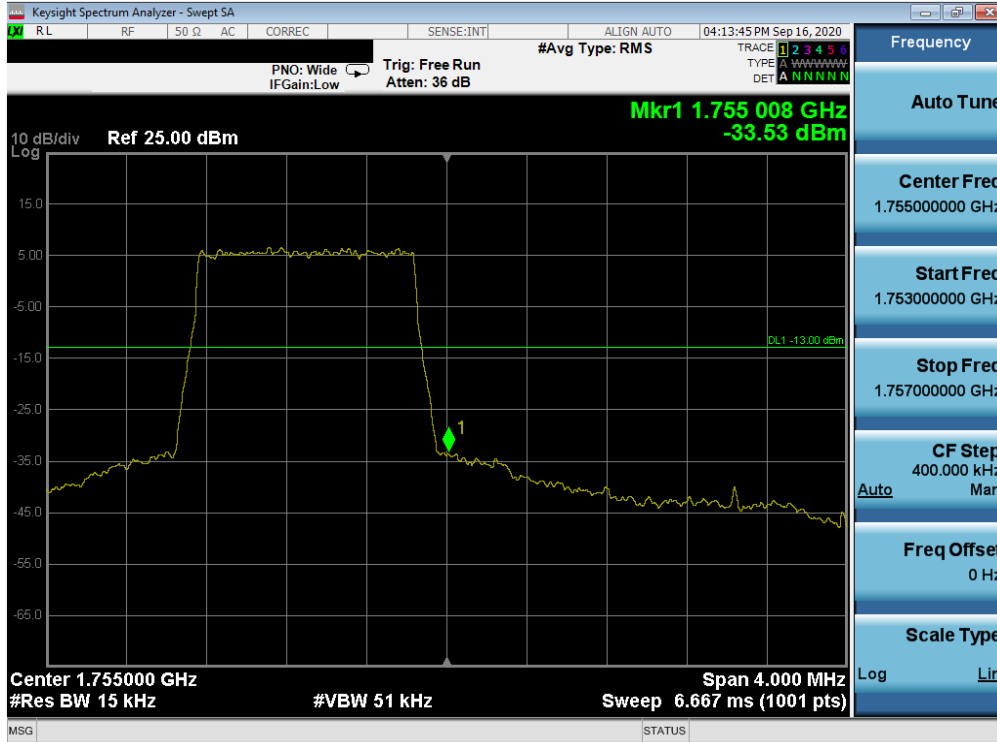


Plot 7-248. Lower Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB Configuration)

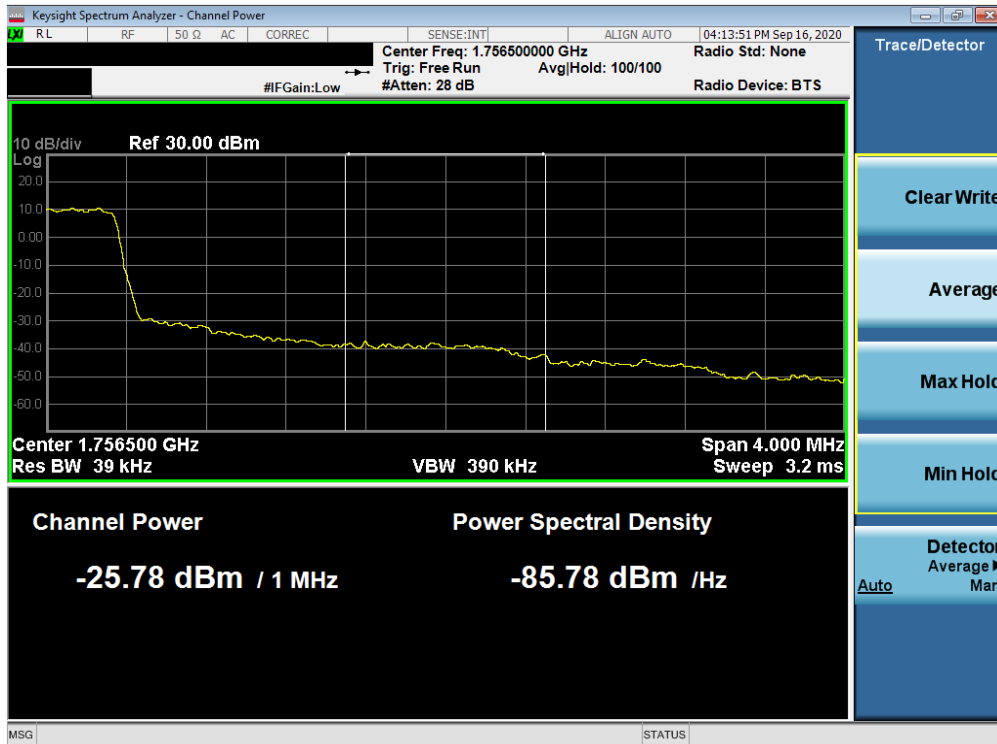


Plot 7-249. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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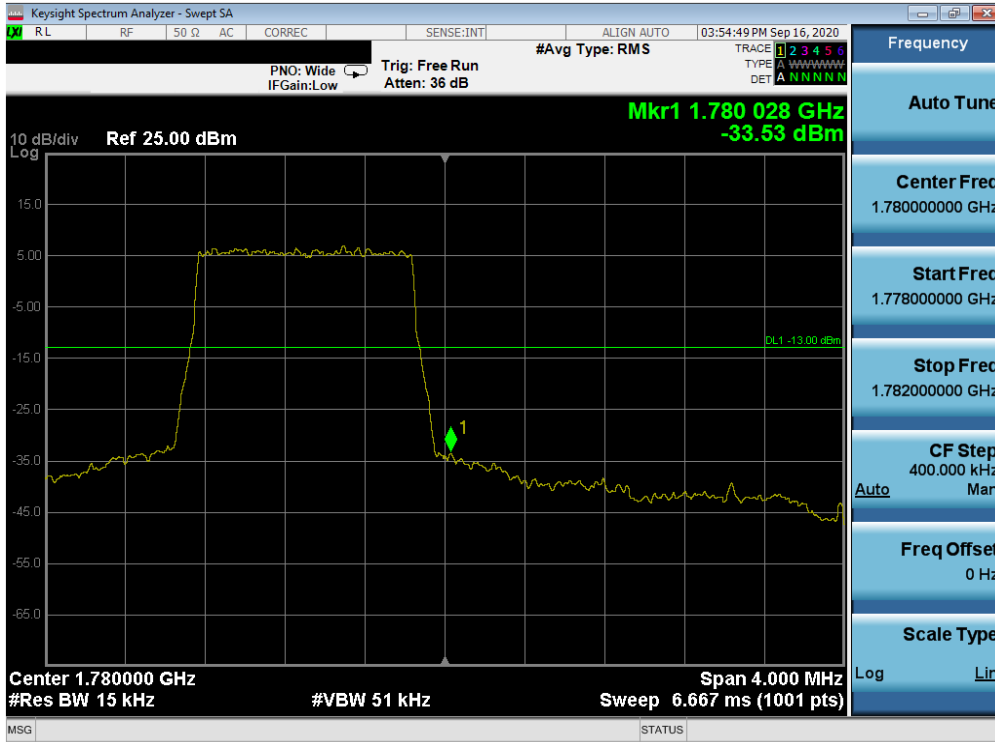


Plot 7-250. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB Configuration)

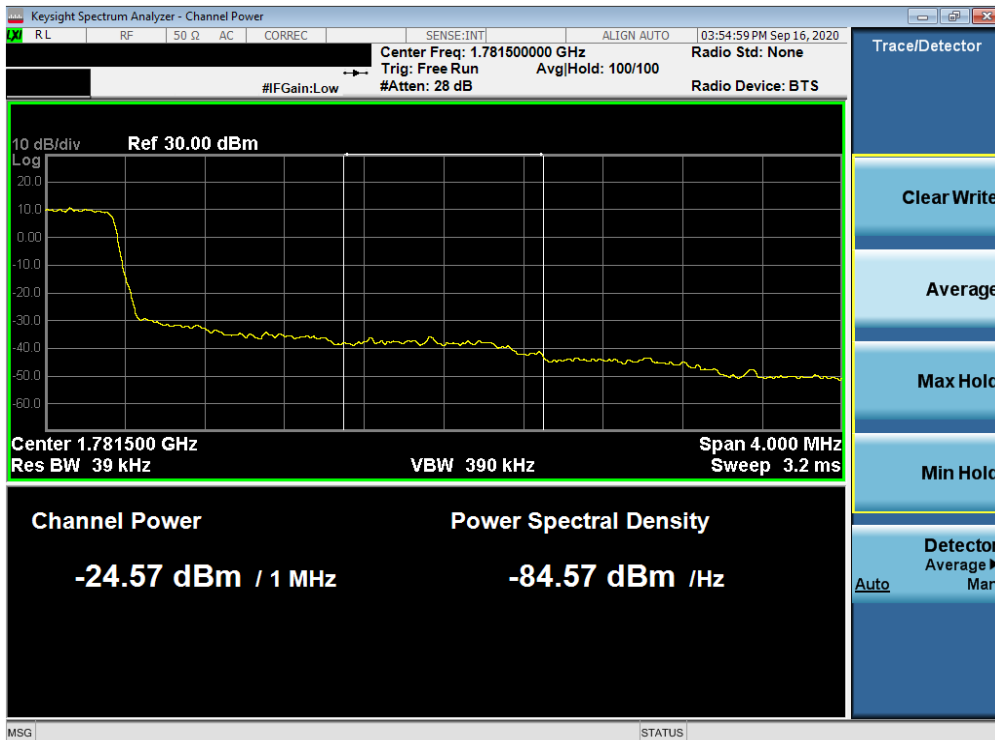


Plot 7-251. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 152 of 332



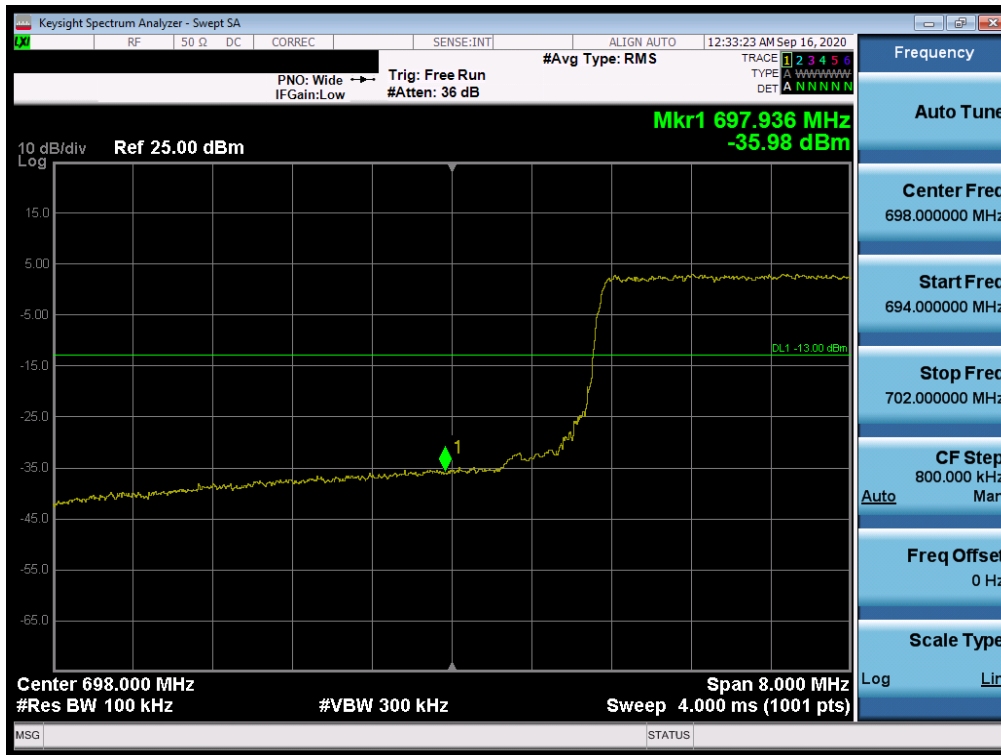
Plot 7-252. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB Configuration)



Plot 7-253. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 153 of 332

LTE Band 12

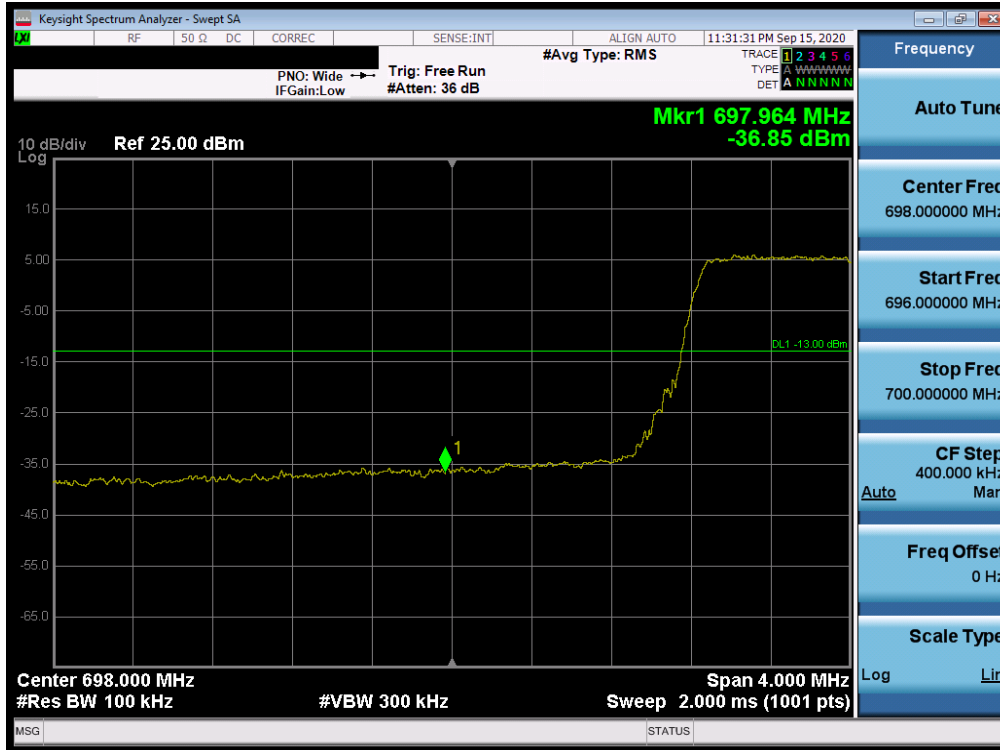


Plot 7-254. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration)



Plot 7-255. Upper Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 154 of 332

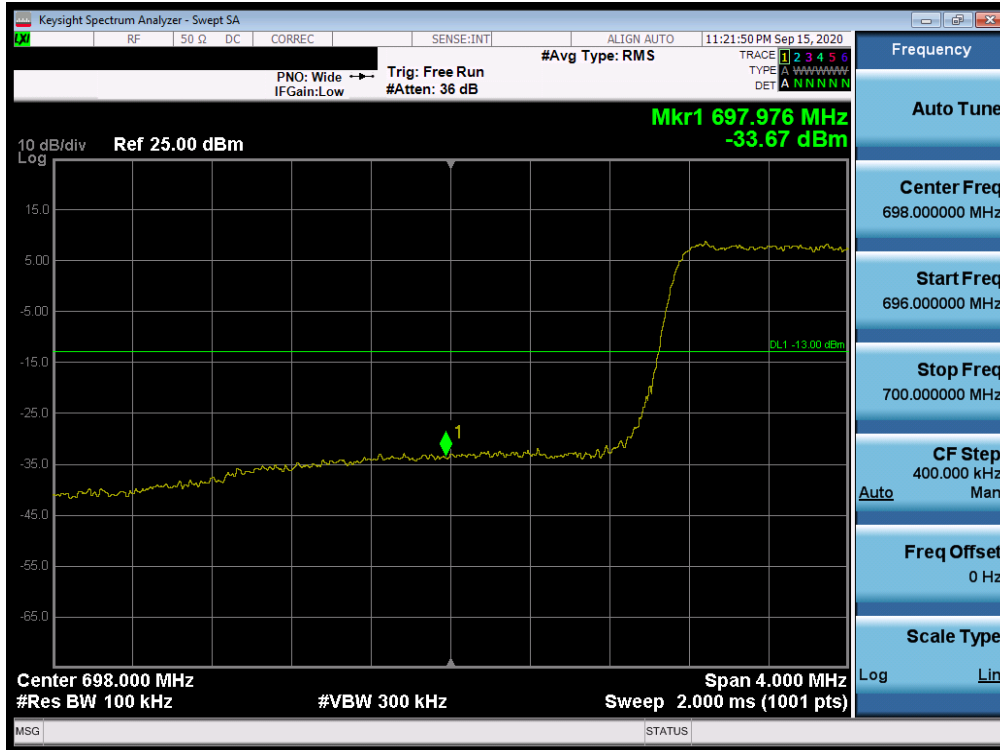


Plot 7-256. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration)

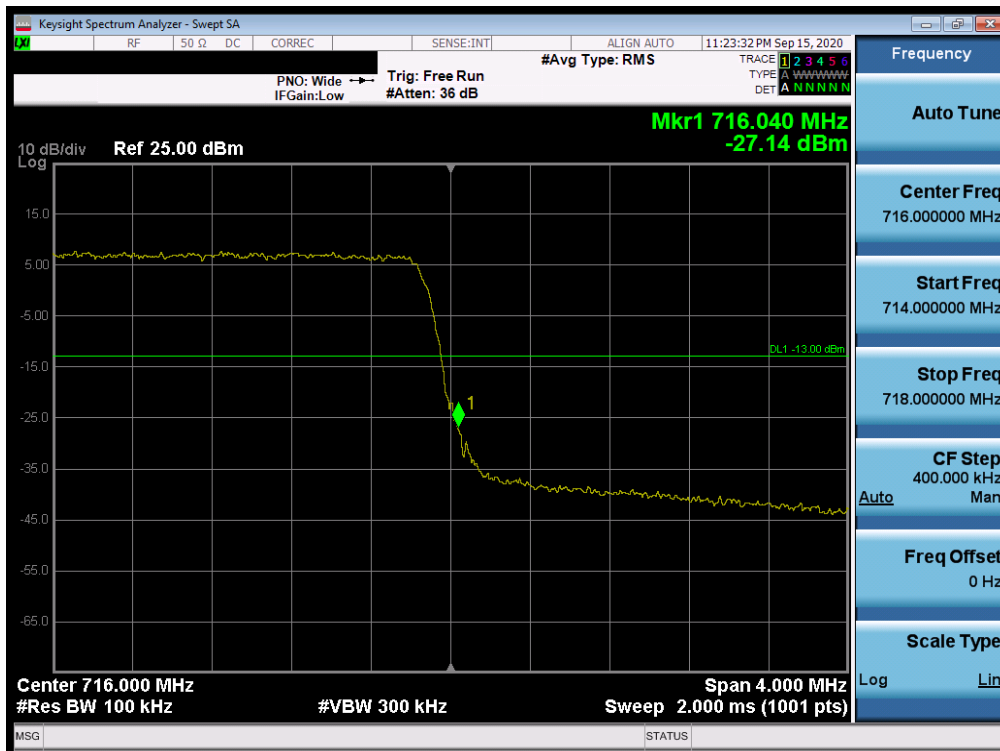


Plot 7-257. Upper Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 155 of 332

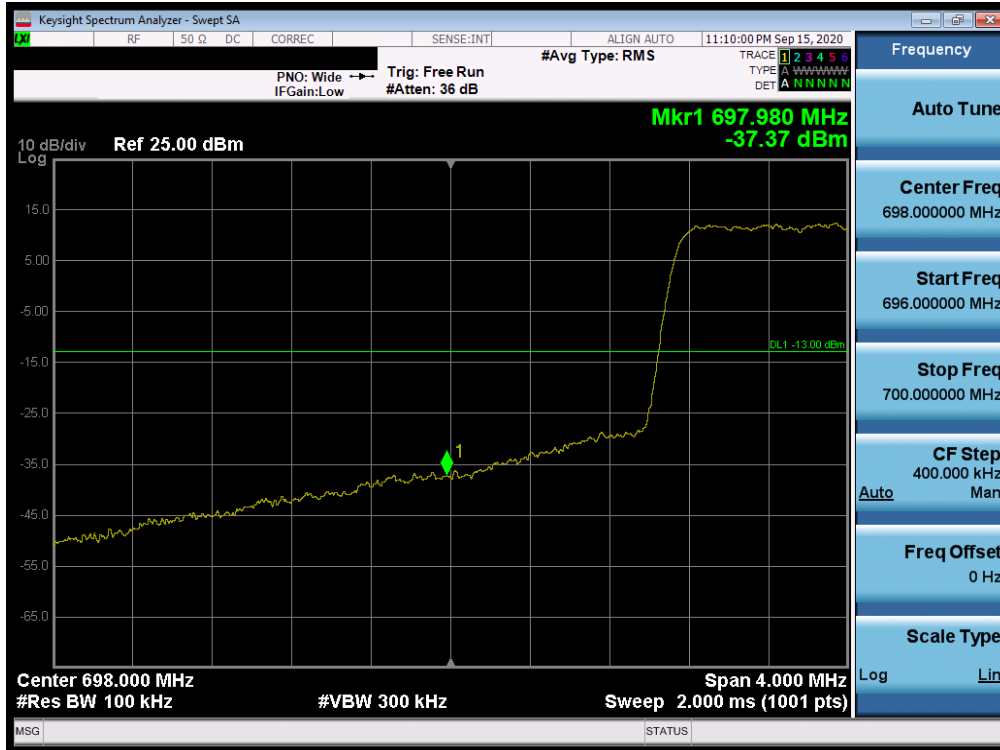


Plot 7-258. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB Configuration)

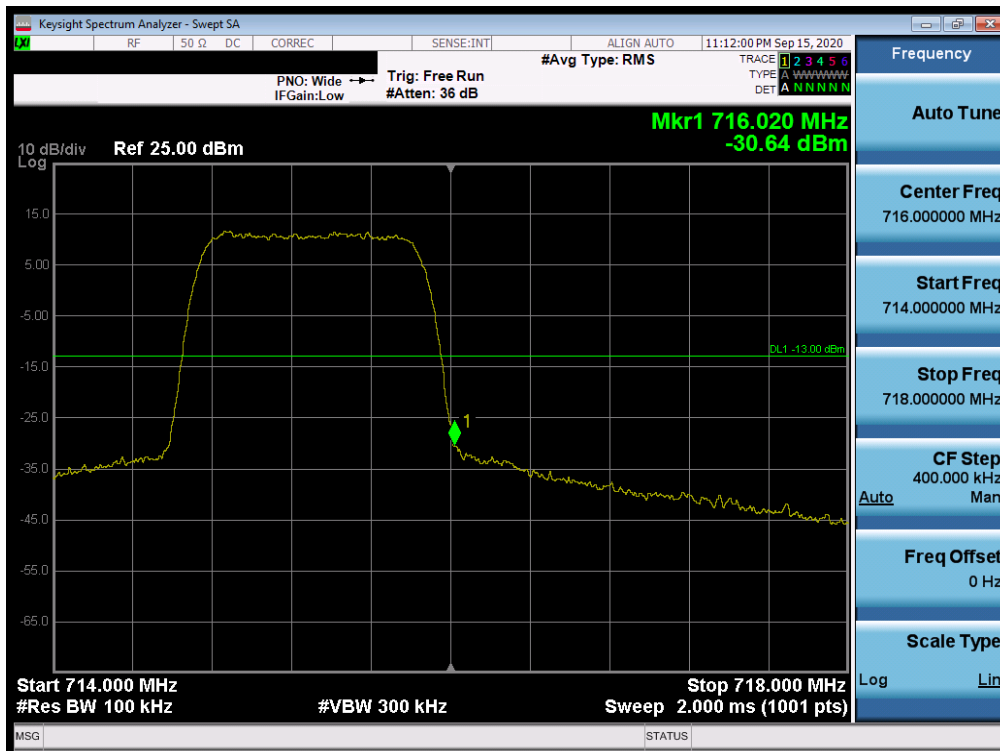


Plot 7-259. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 156 of 332



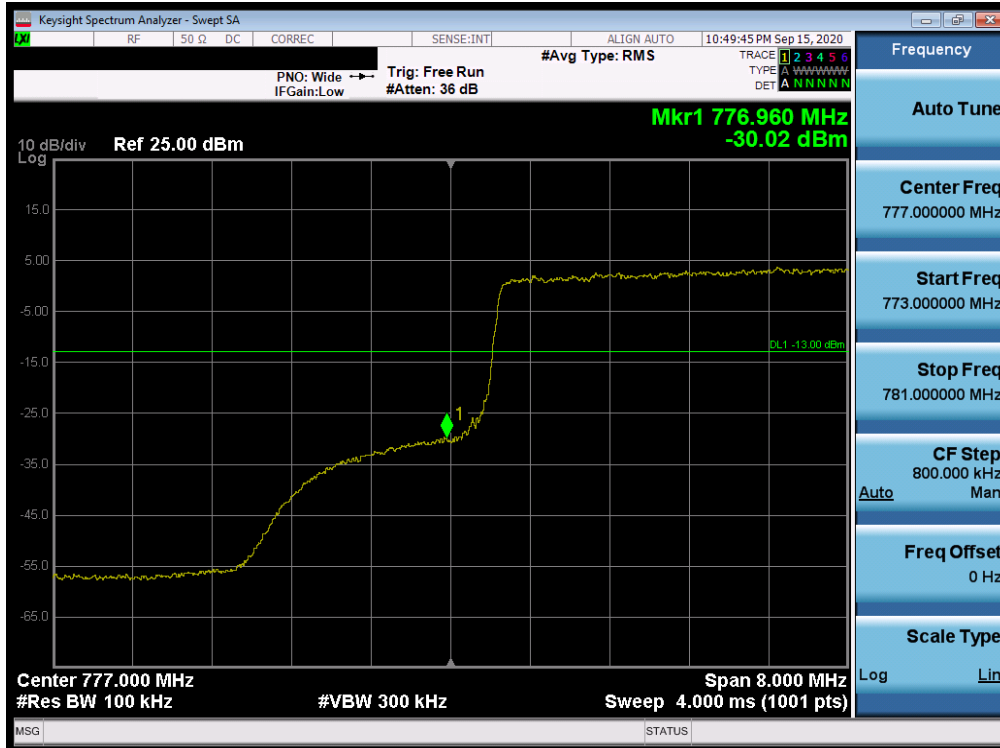
Plot 7-260. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB Configuration)



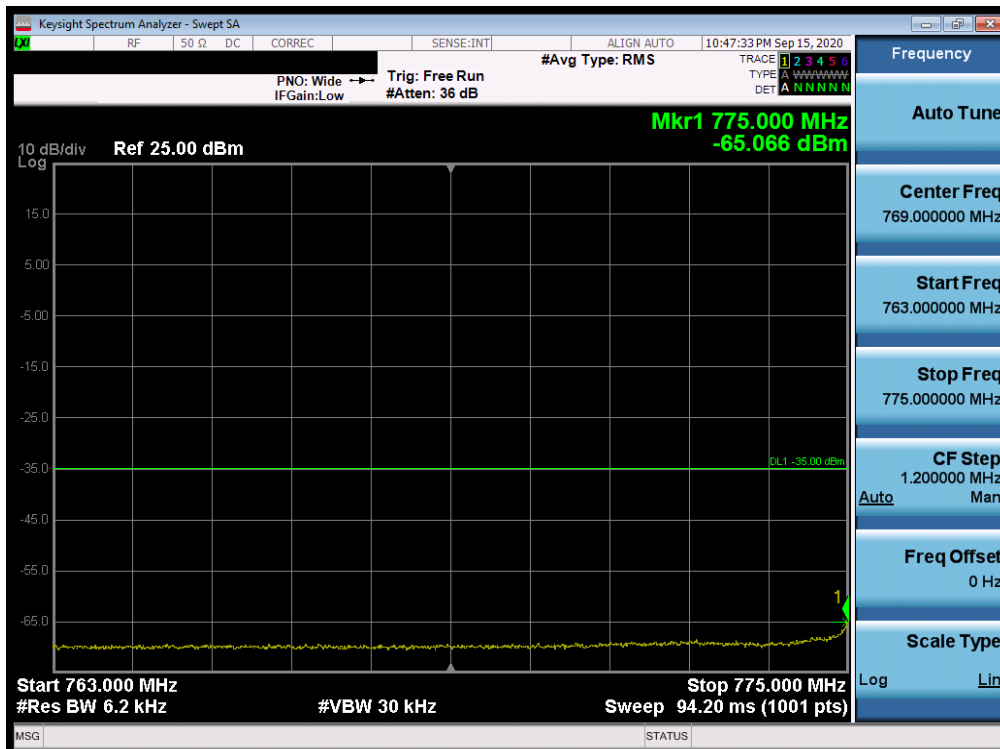
Plot 7-261. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB Configuration)

LTE Band 13

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 157 of 332

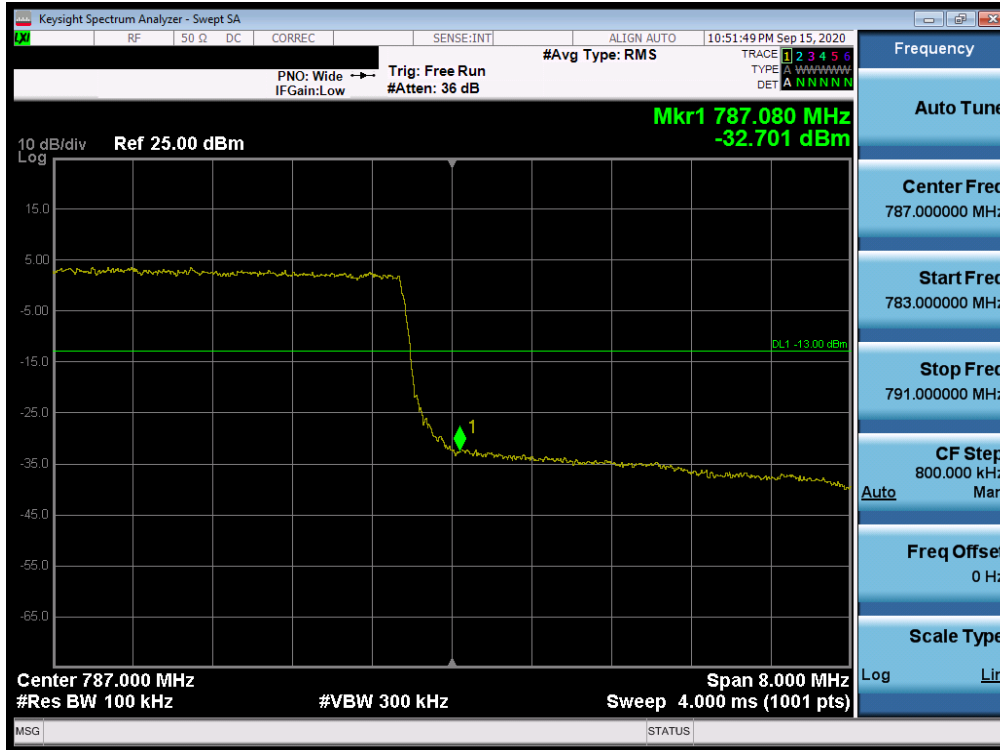


Plot 7-262. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)



Plot 7-263. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 158 of 332

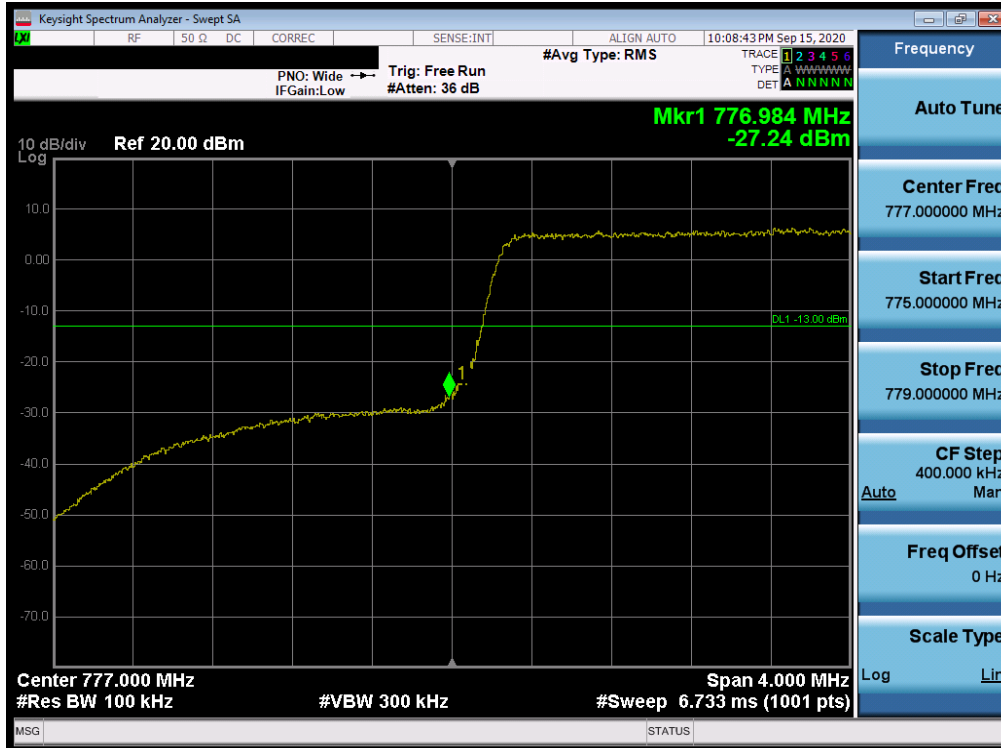


Plot 7-264. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)

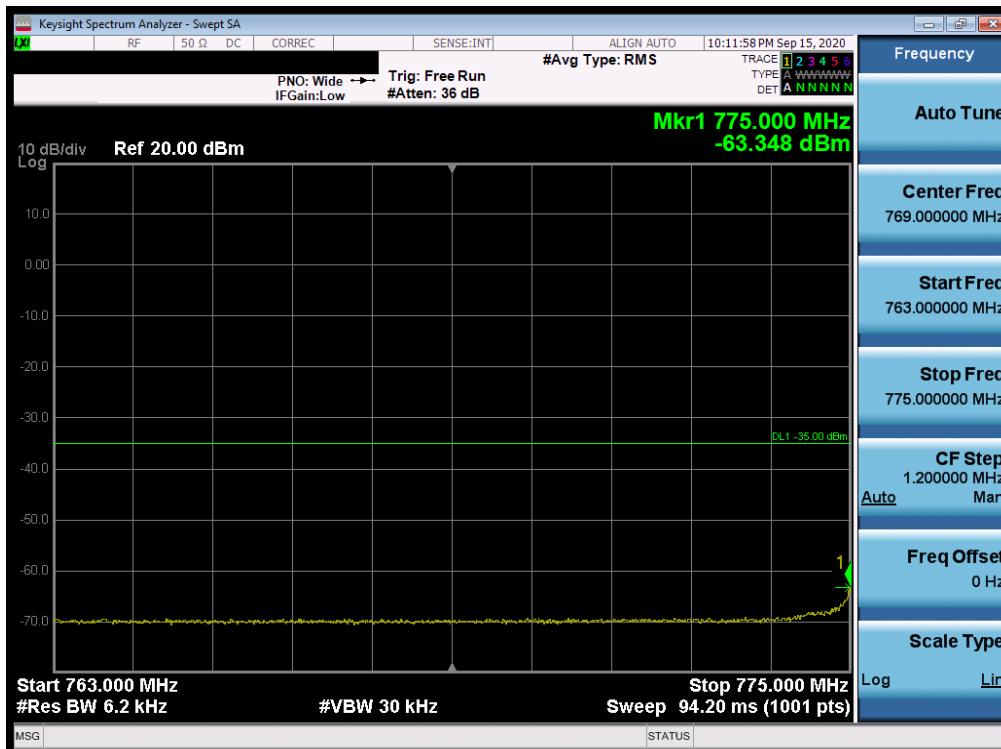


Plot 7-265. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 159 of 332

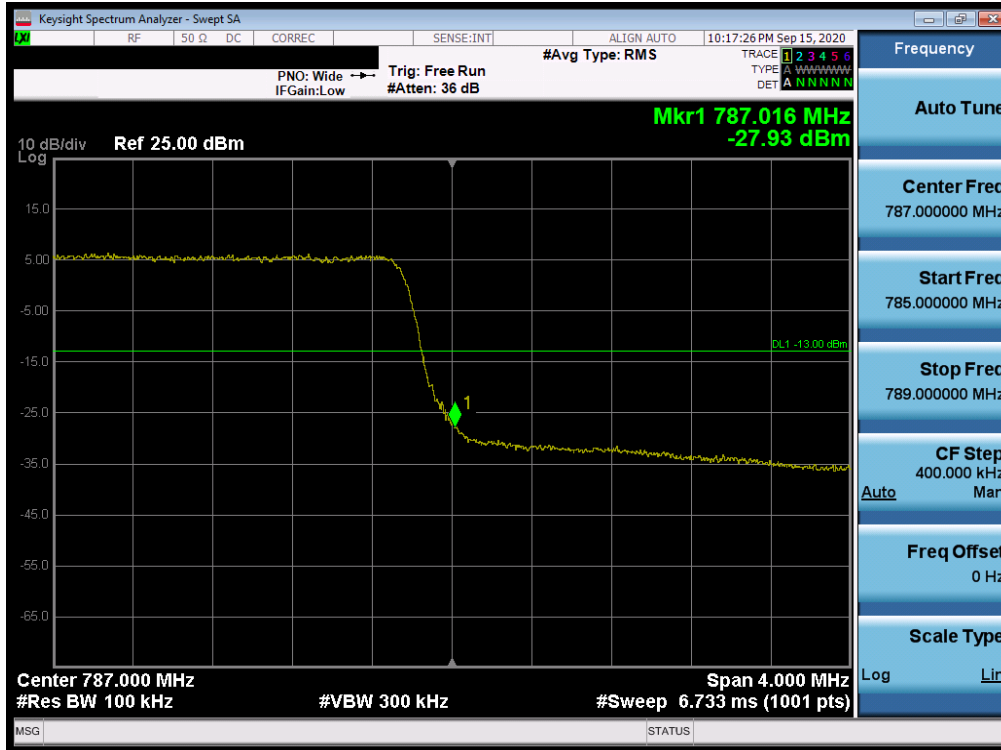


Plot 7-266. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)



Plot 7-267. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 160 of 332



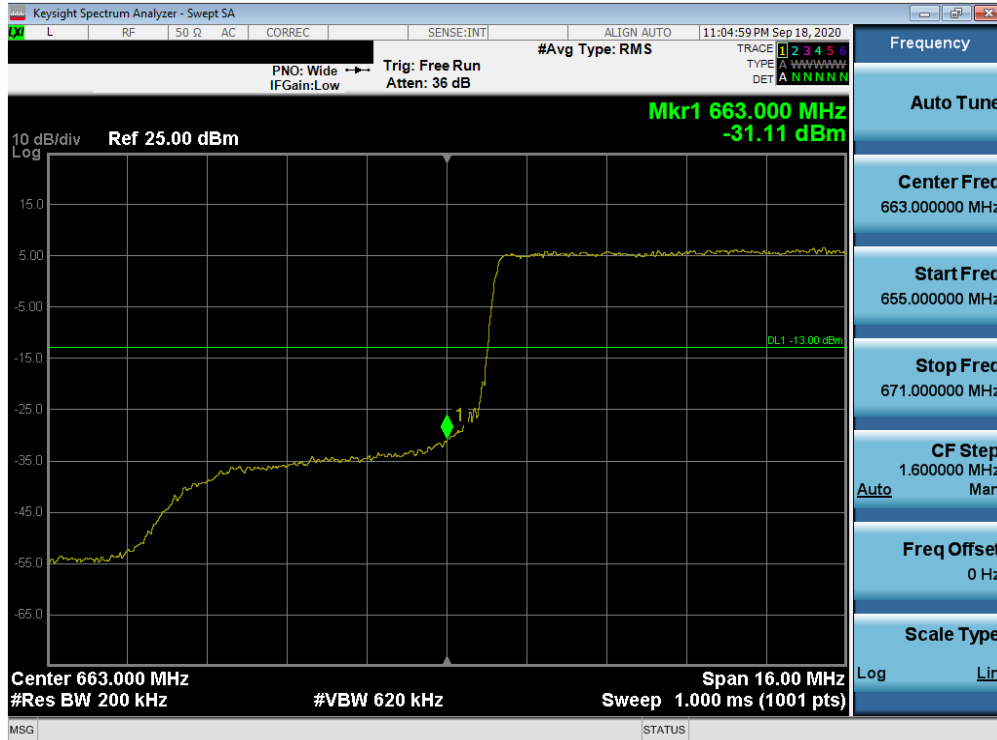
Plot 7-268. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)



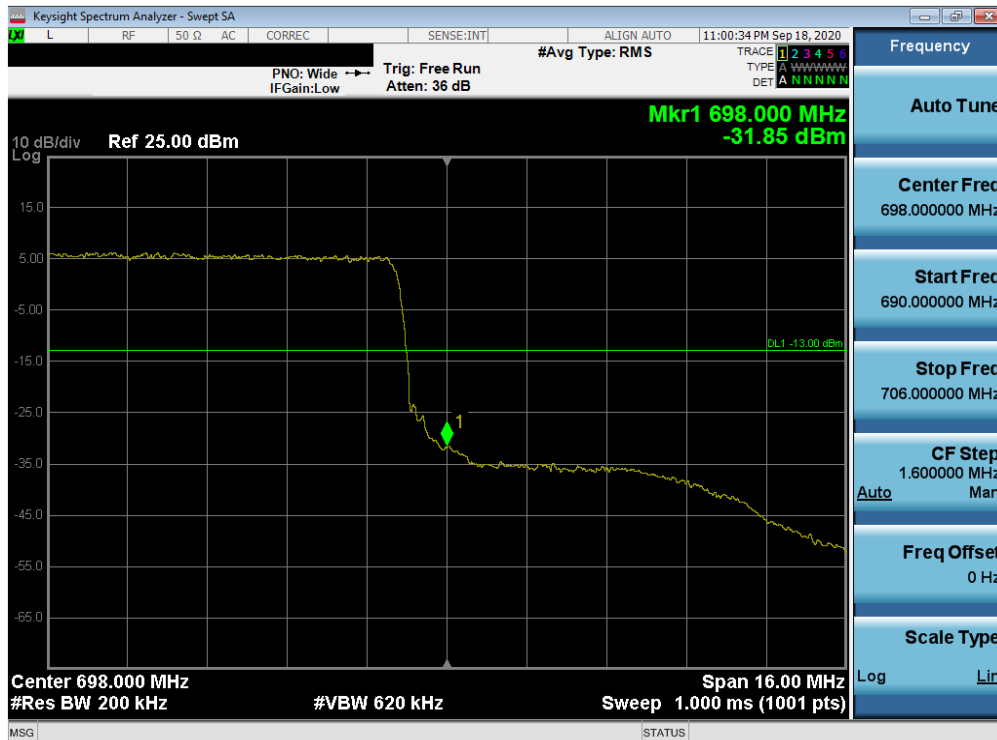
Plot 7-269. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration)

LTE Band 71

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 161 of 332

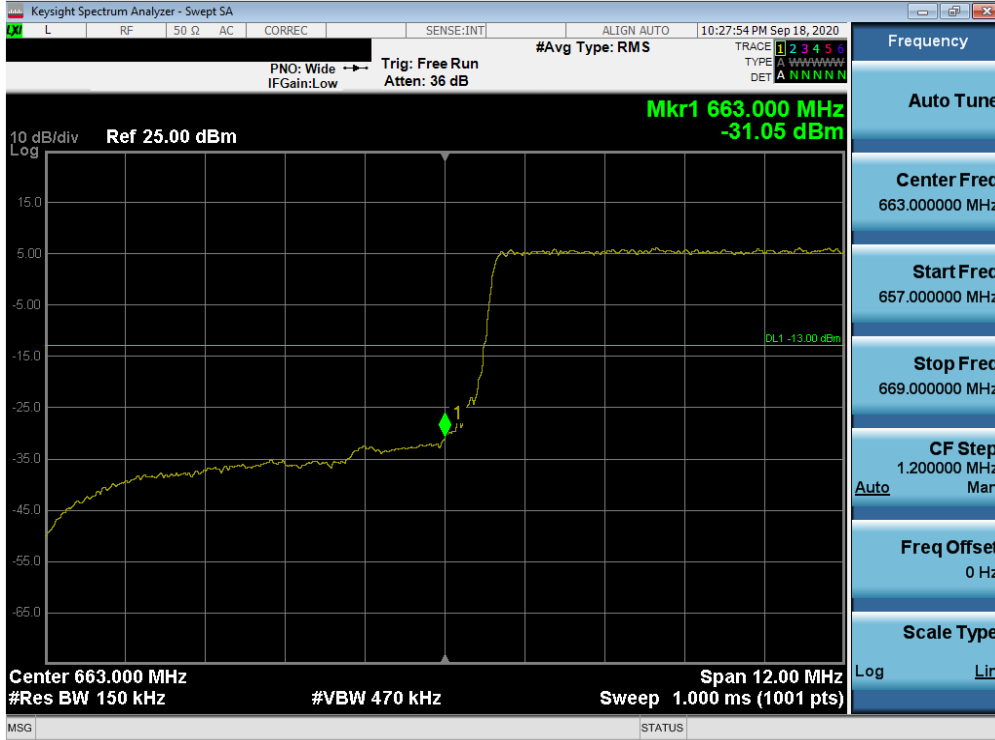


Plot 7-270. Lower Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

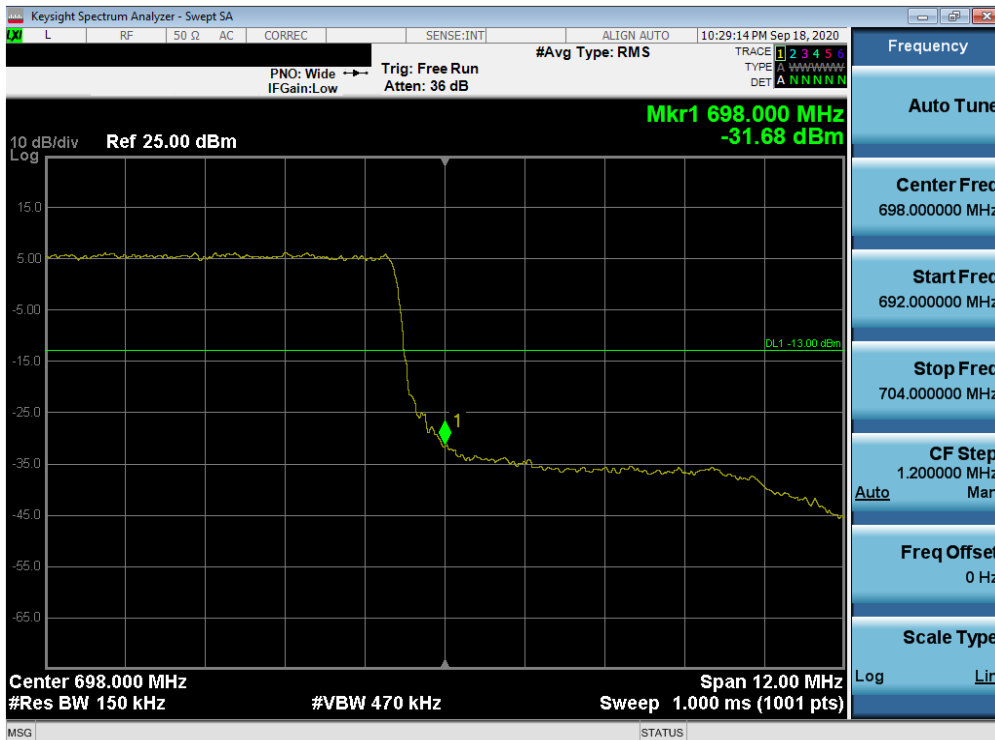


Plot 7-271. Upper Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 162 of 332

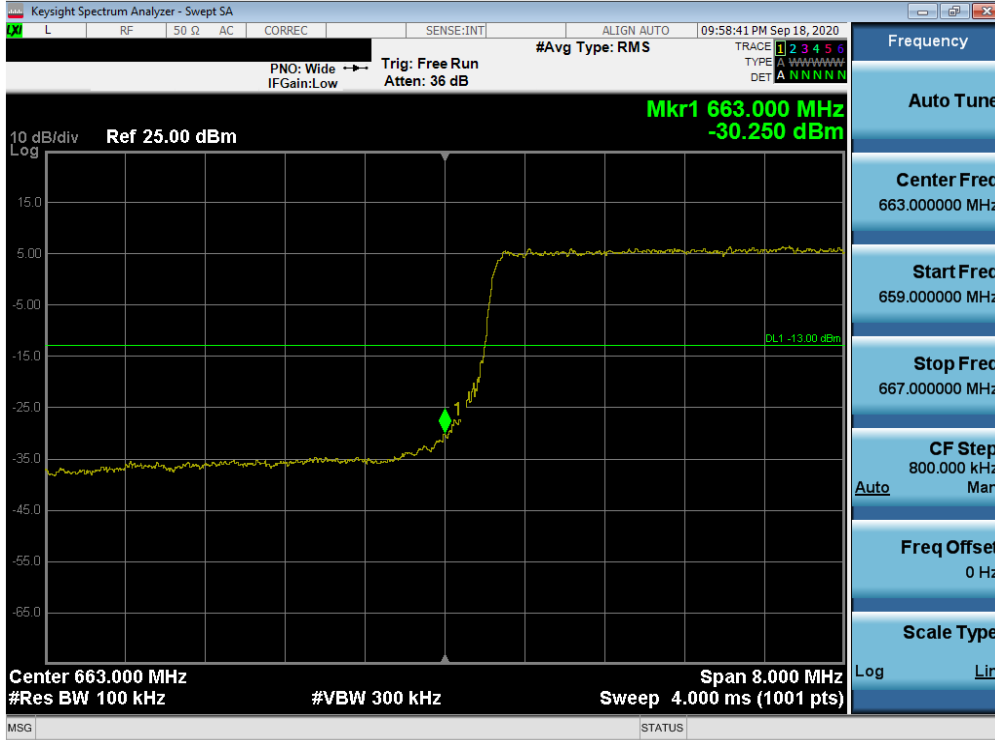


Plot 7-272. Lower Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)

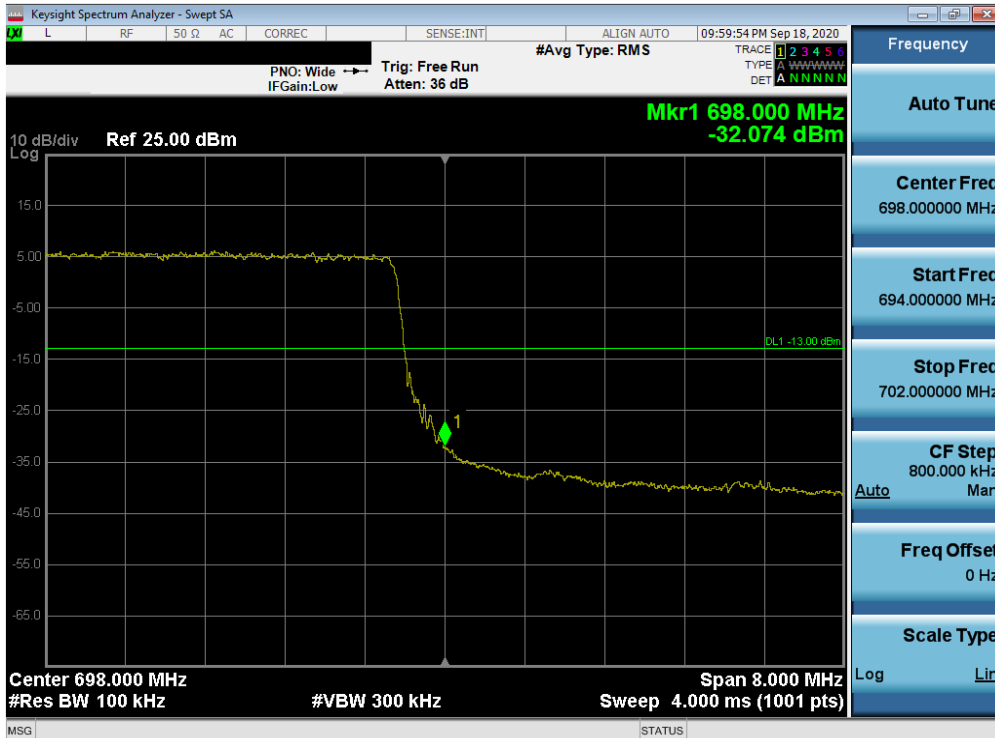


Plot 7-273. Upper Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 163 of 332

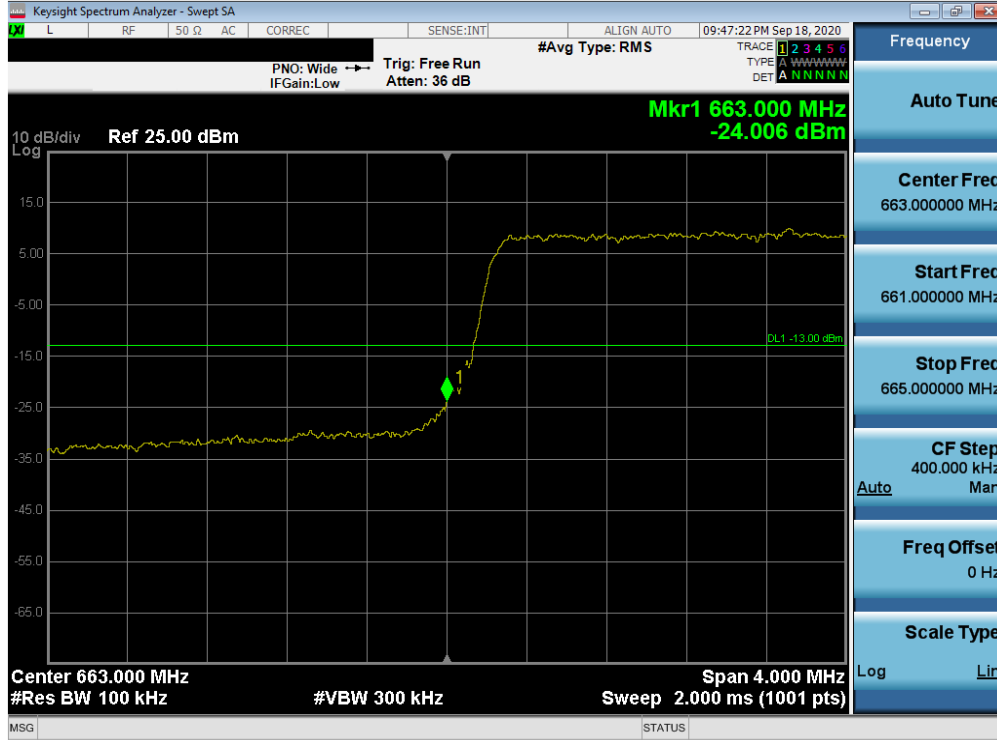


Plot 7-274. Lower Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)

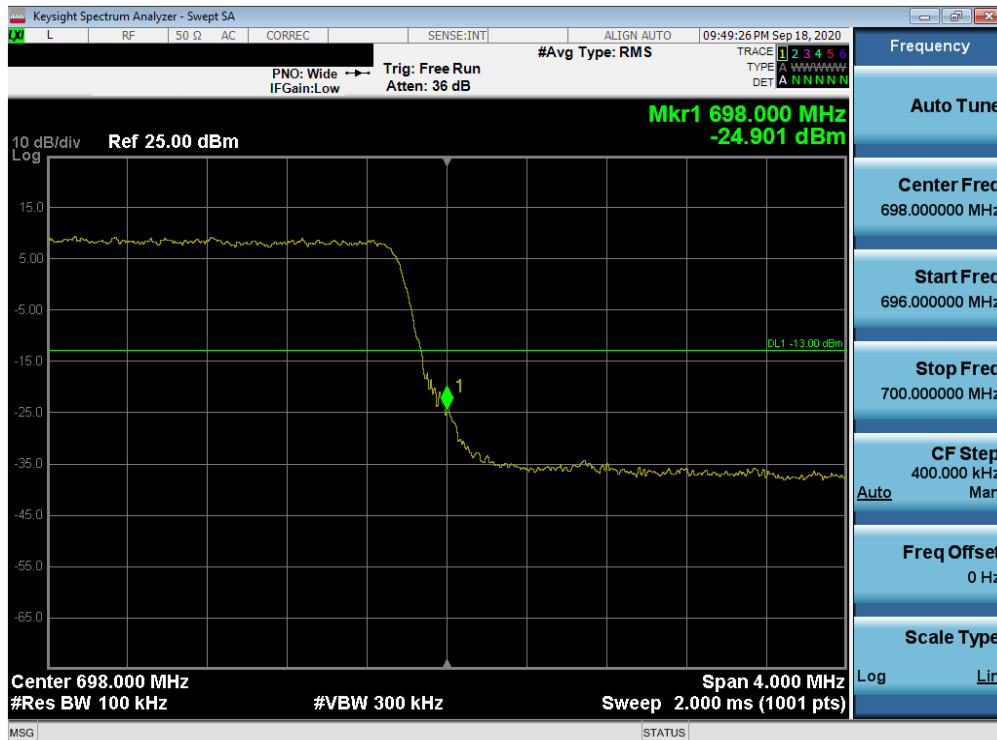


Plot 7-275. Upper Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 164 of 332



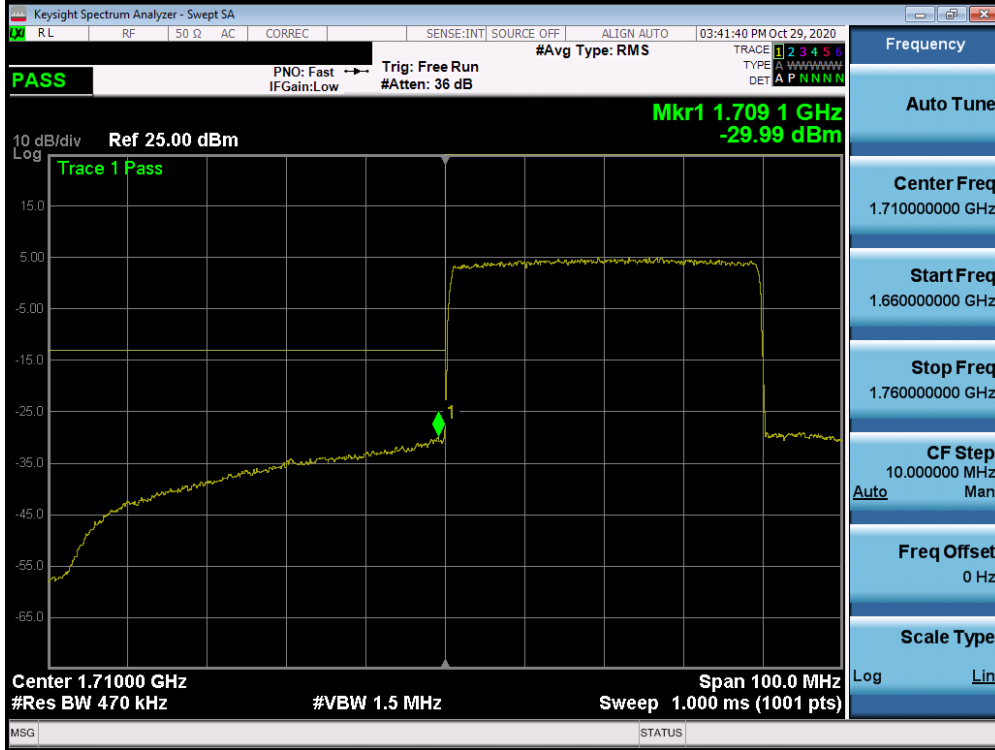
Plot 7-276. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)



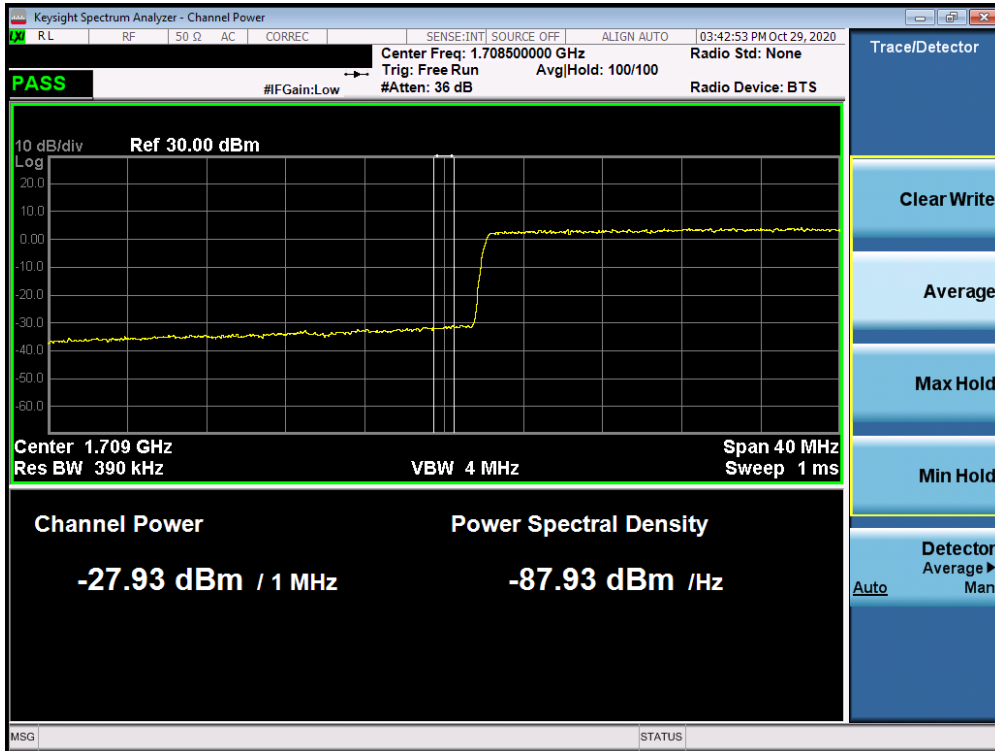
Plot 7-277. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)

NR Band n66 Ant A

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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Plot 7-278. Lower Band Edge Plot (NR Band n66 Ant A – 40.0MHz - Full RB)

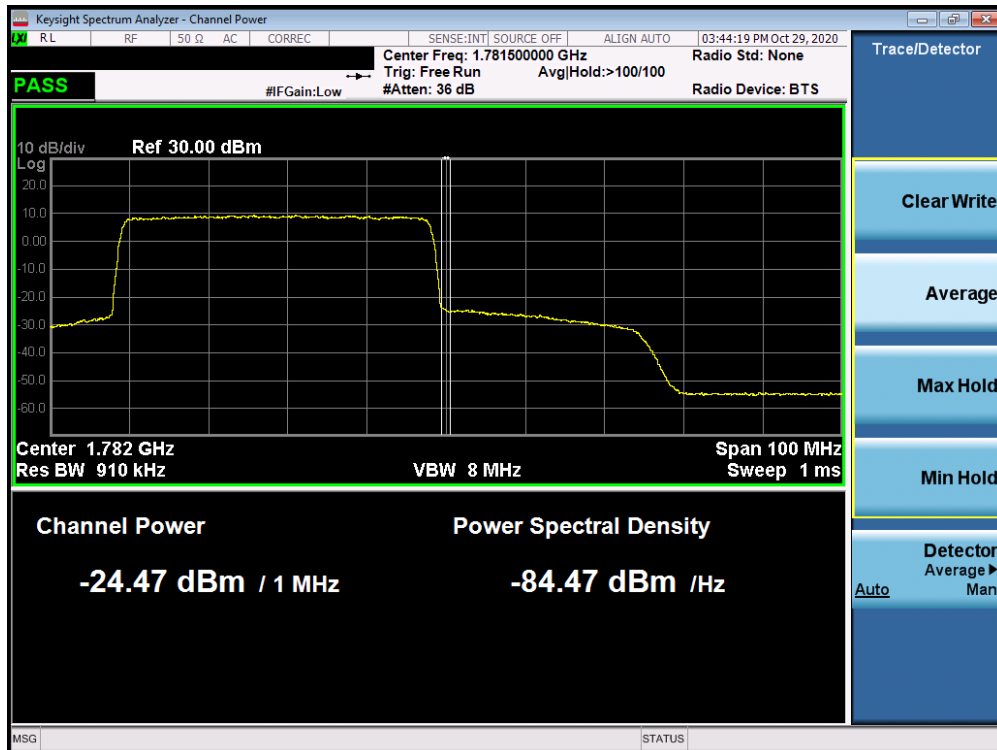


Plot 7-279. Lower Extended Band Edge Plot (NR Band n66 Ant A – 40.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 166 of 332

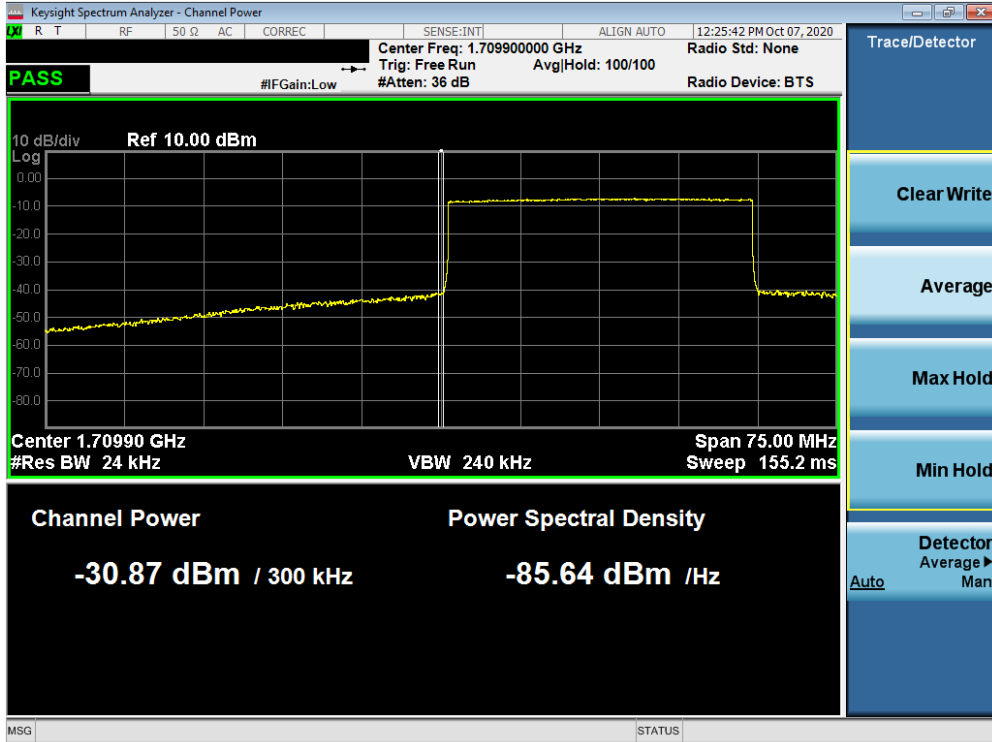


Plot 7-280. Upper Band Edge Plot (NR Band n66 Ant A – 40.0MHz - Full RB)

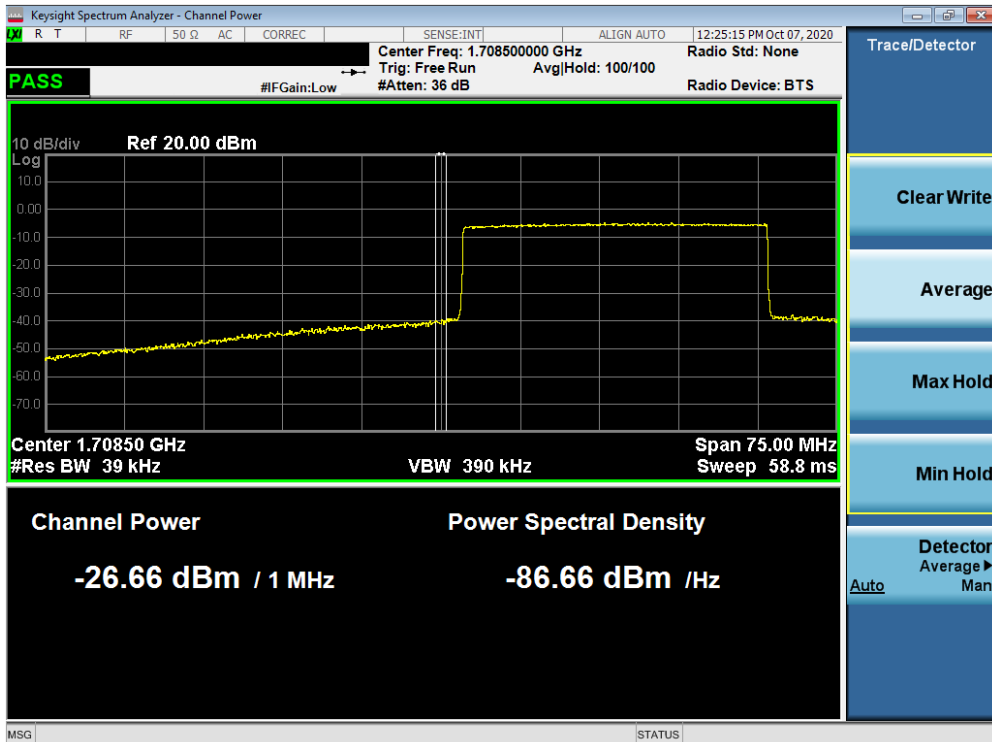


Plot 7-281. Upper Extended Band Edge Plot (NR Band n66 Ant A – 40.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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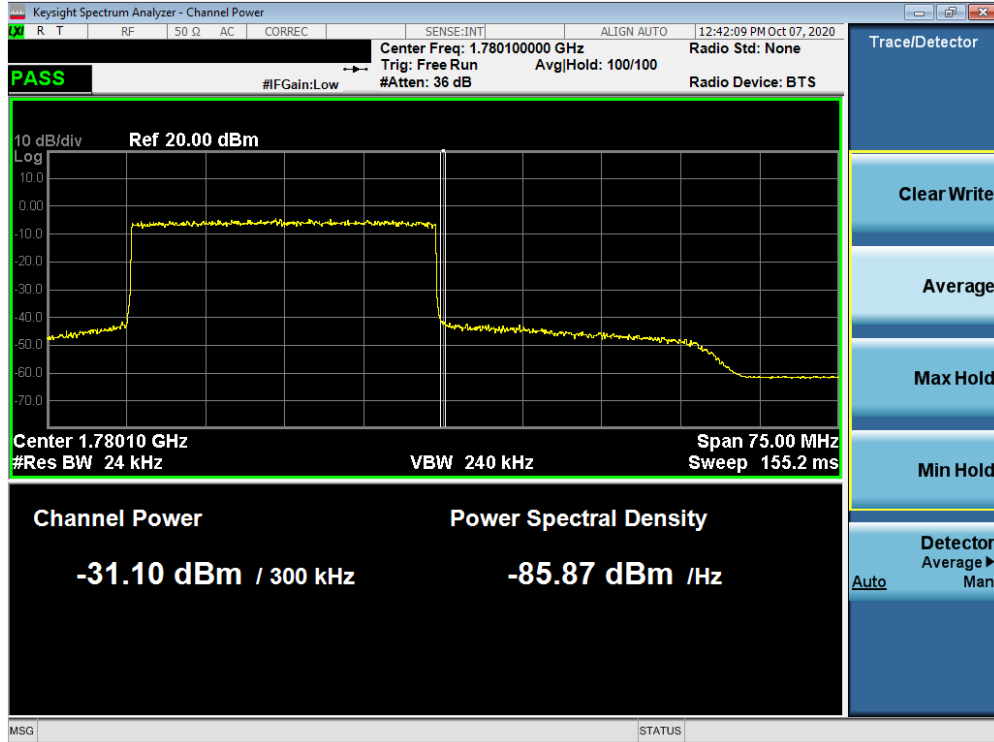


Plot 7-282. Lower Band Edge Plot (NR Band n66 Ant A – 30.0MHz - Full RB)

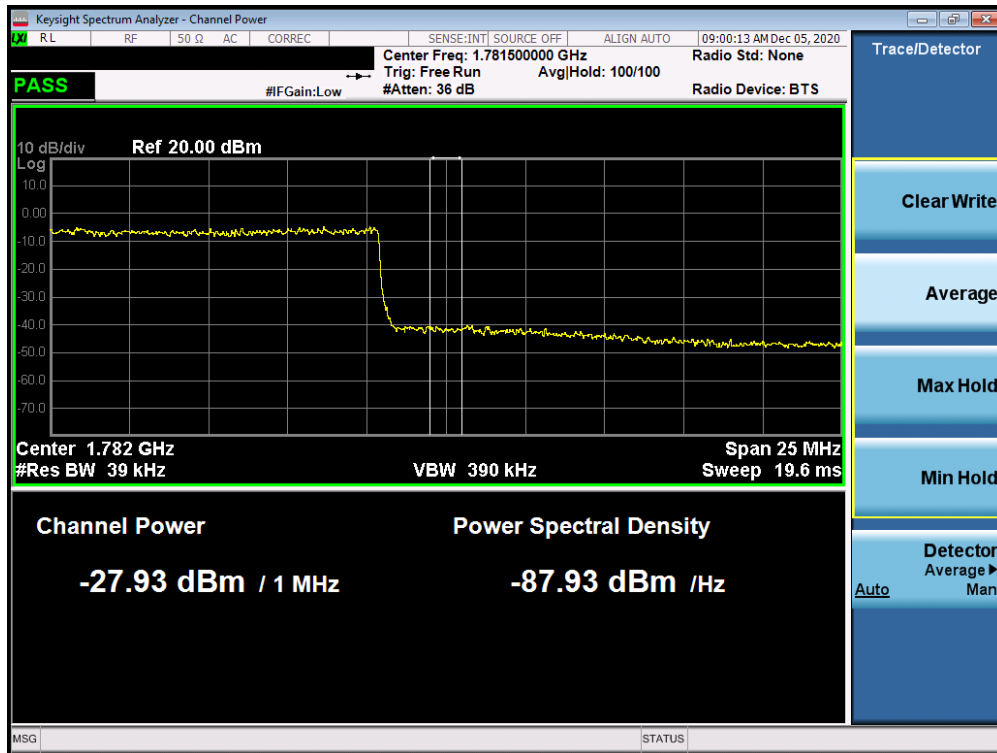


Plot 7-283. Lower Extended Band Edge Plot (NR Band n66 Ant A – 30.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 168 of 332



Plot 7-284. Upper Band Edge Plot (NR Band n66 Ant A – 30.0MHz - Full RB)

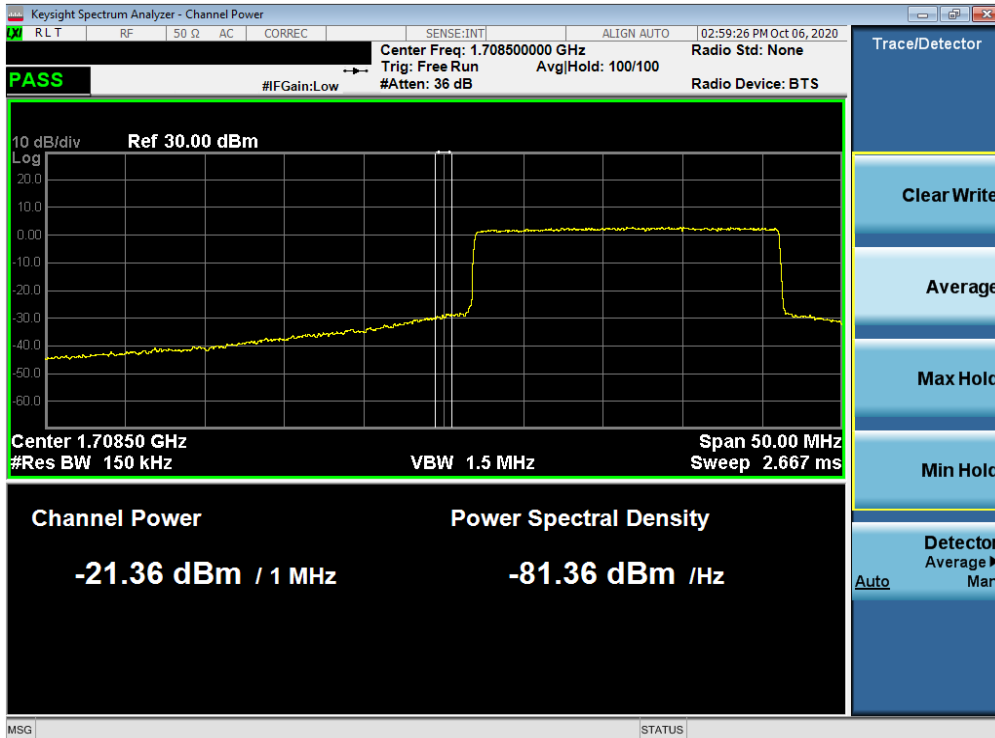


Plot 7-285. Upper Extended Band Edge Plot (NR Band n66 Ant A – 30.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 169 of 332



Plot 7-286. Lower Band Edge Plot (NR Band n66 Ant A – 20.0MHz - Full RB)

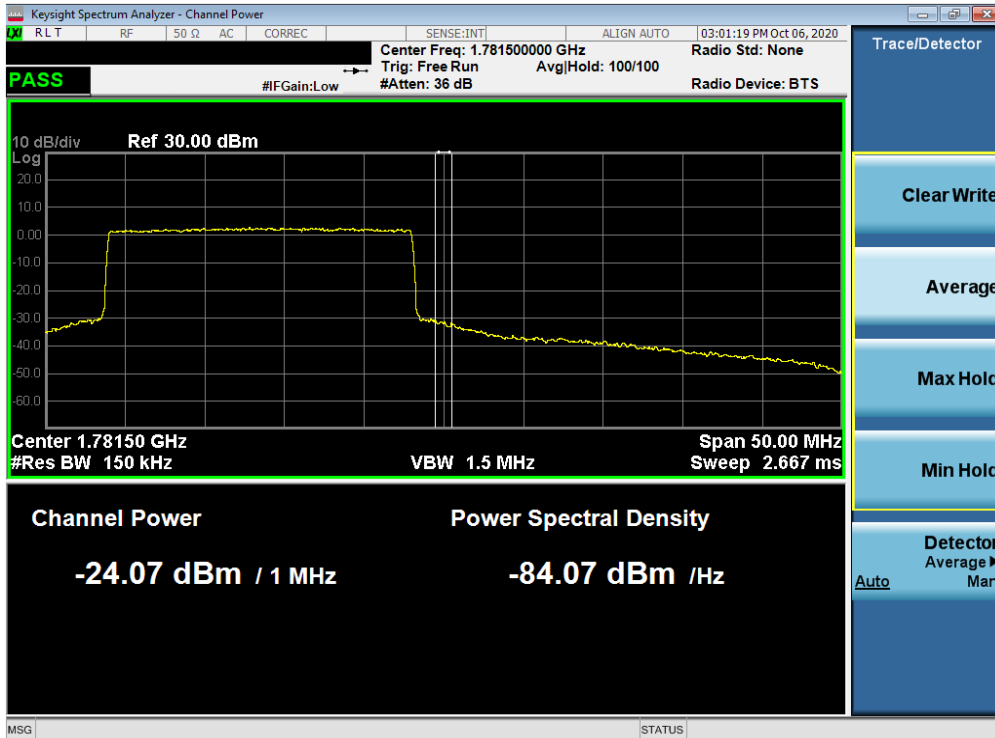


Plot 7-287. Lower Extended Band Edge Plot (NR Band n66 Ant A – 20.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 170 of 332

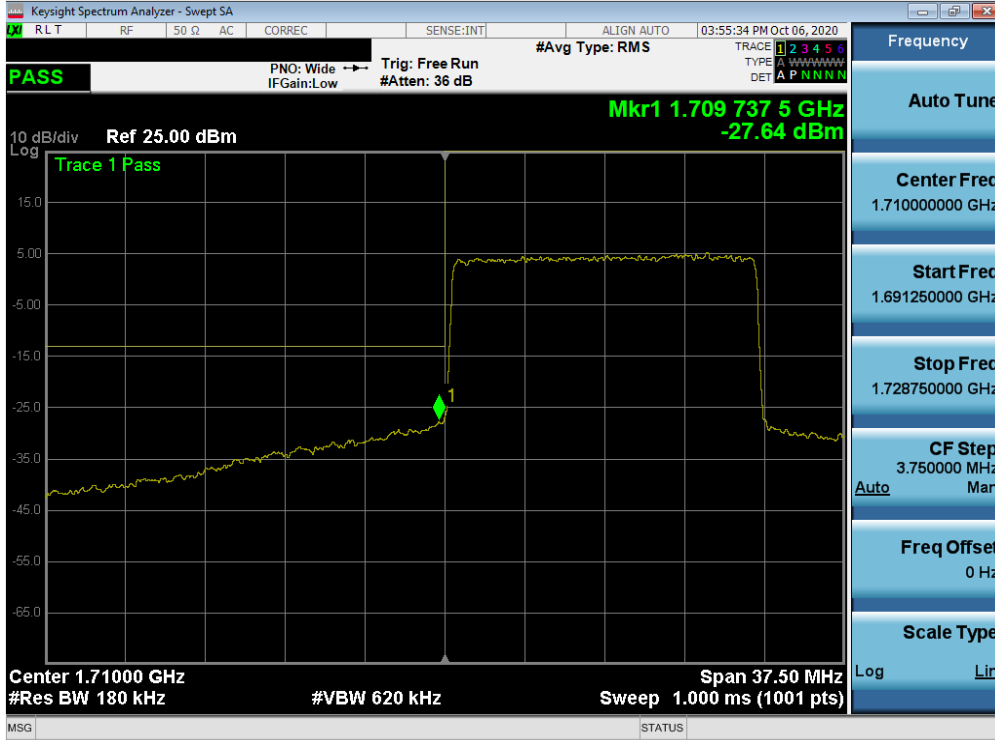


Plot 7-288. Upper Band Edge Plot (NR Band n66 Ant A – 20.0MHz - Full RB)

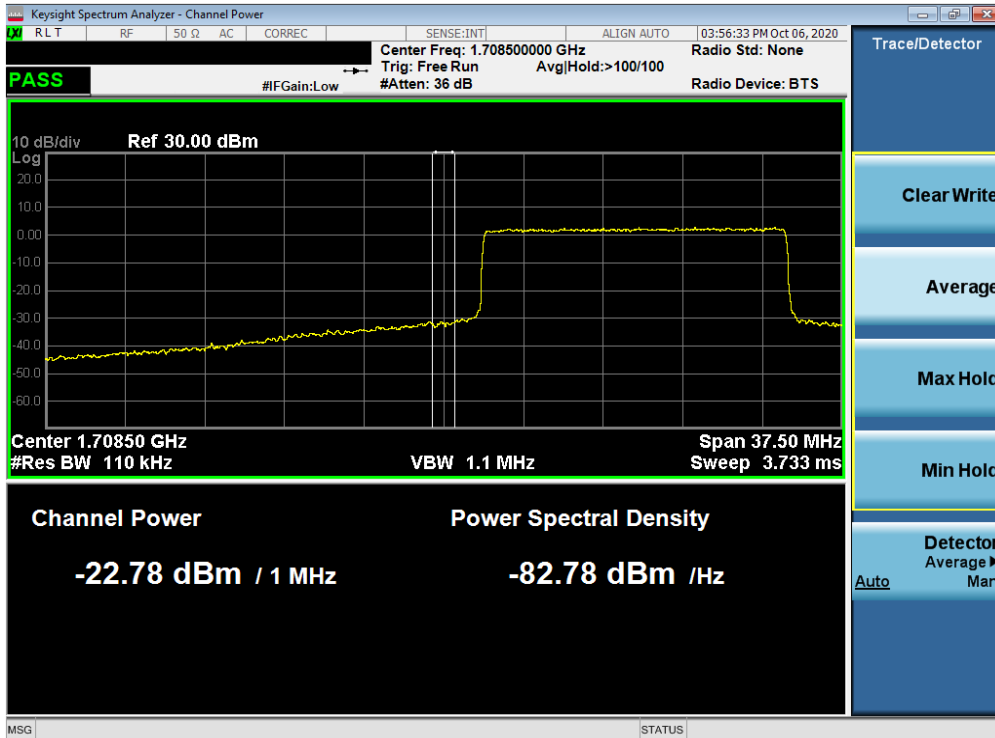


Plot 7-289. Upper Extended Band Edge Plot (NR Band n66 Ant A – 20.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Plot 7-290. Lower Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

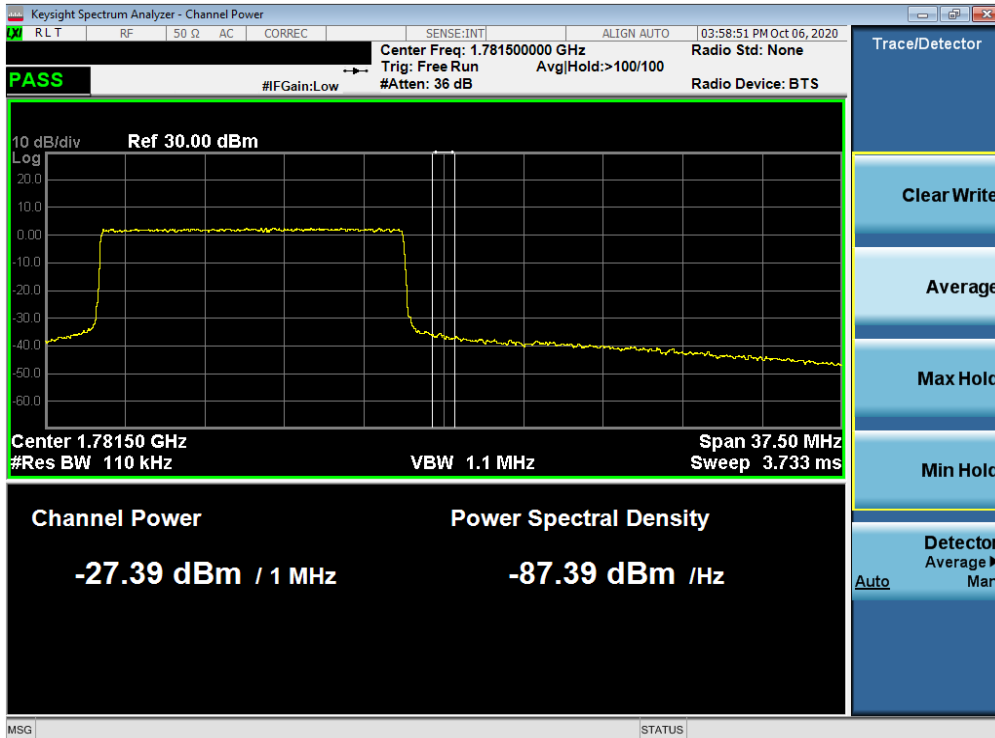


Plot 7-291. Lower Extended Band Edge Plot (NR Band n66 Ant A – 15.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 172 of 332

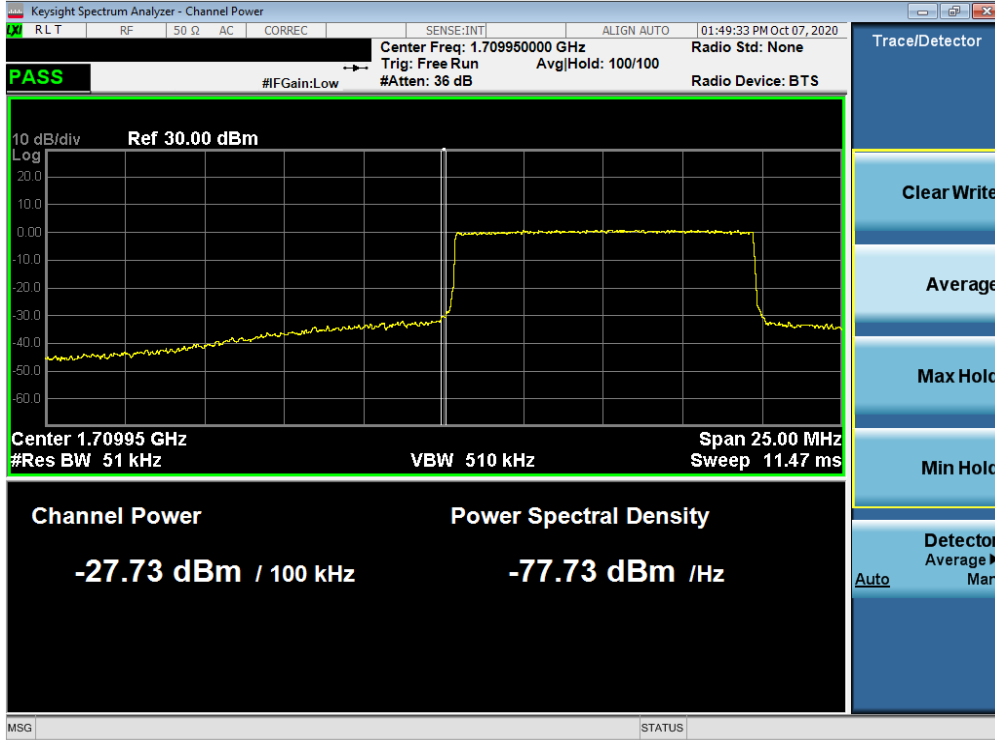


Plot 7-292. Upper Band Edge Plot (NR Band n66 Ant A – 15.0MHz - Full RB)

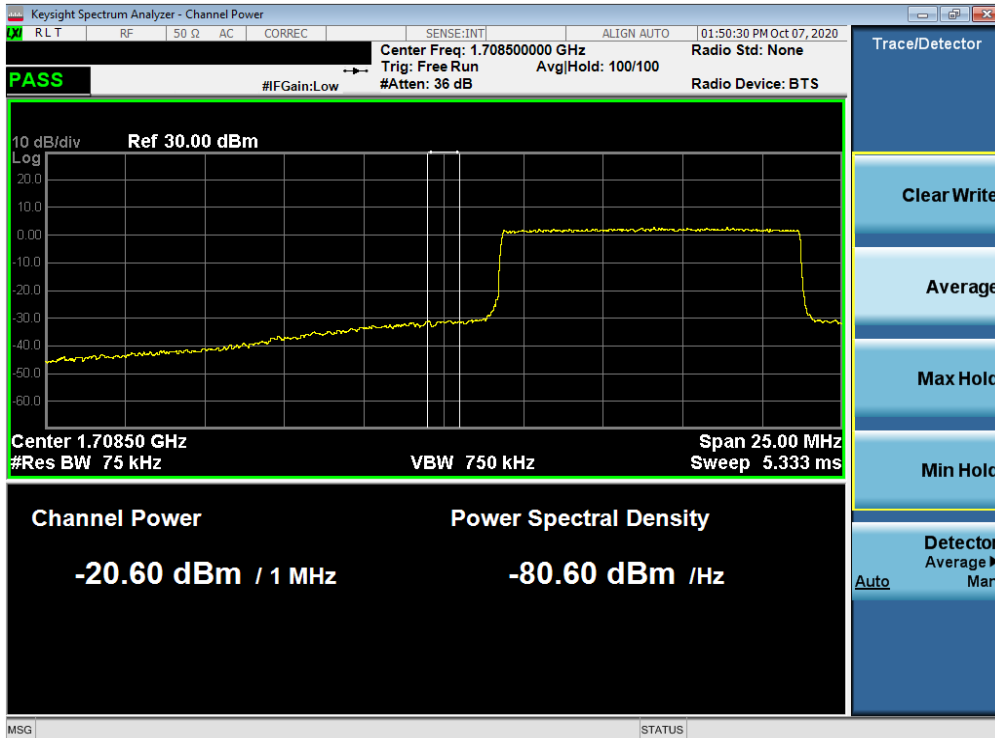


Plot 7-293. Upper Extended Band Edge Plot (NR Band n66 Ant A – 15.0MHz - Full RB)



FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 173 of 332

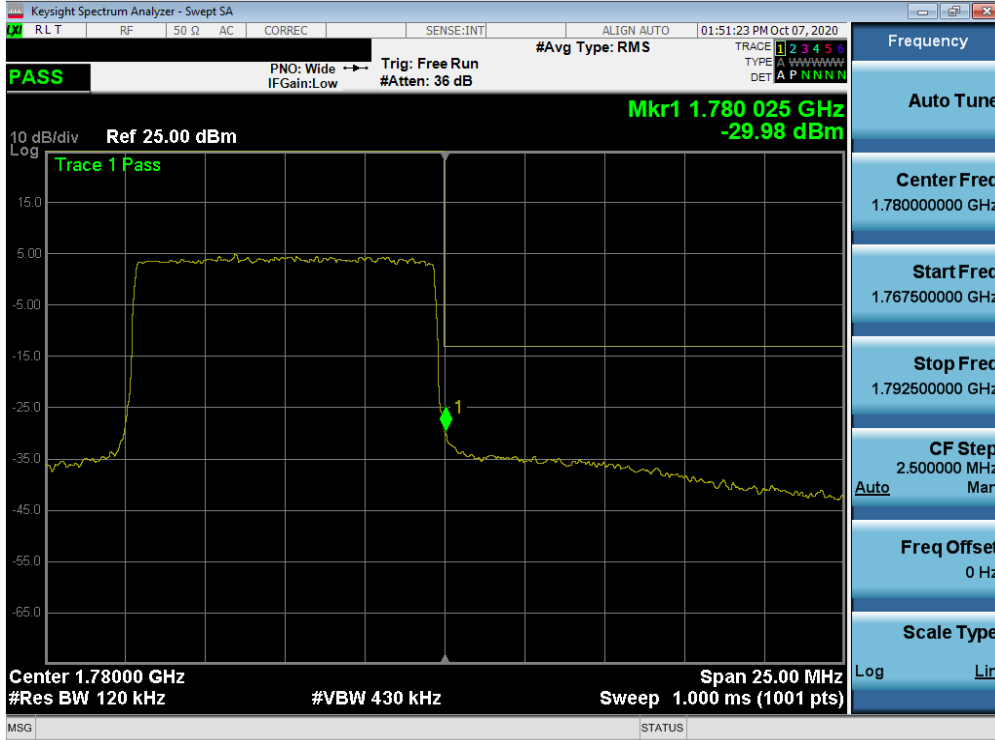


Plot 7-294. Lower Band Edge Plot (NR Band n66 Ant A – 10.0MHz - Full RB)

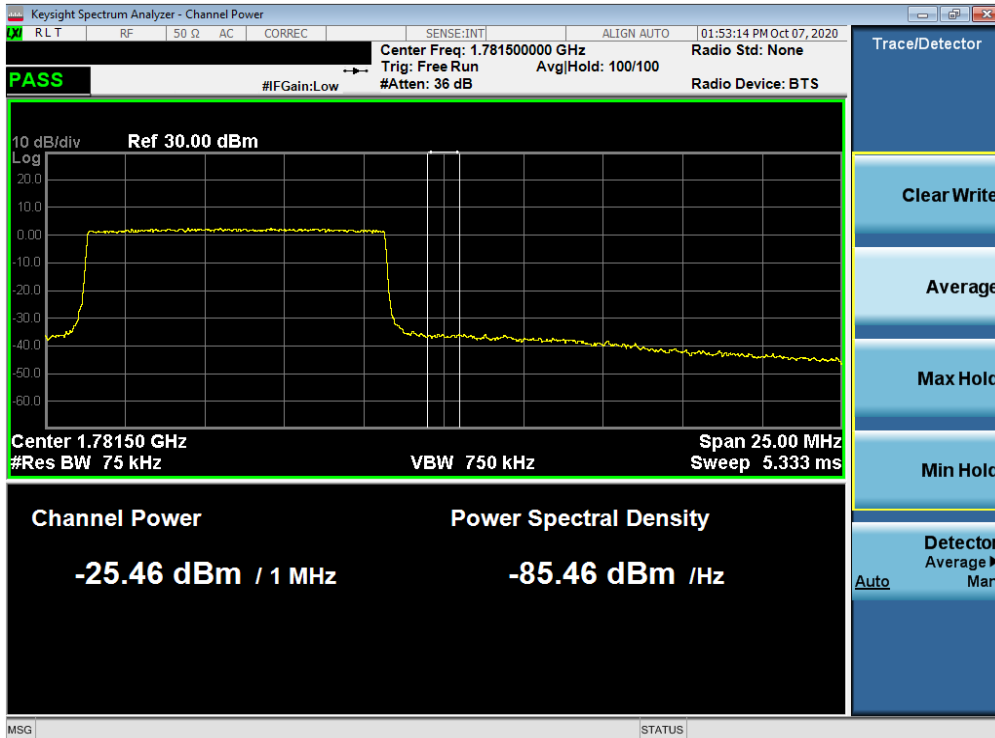


Plot 7-295. Lower Extended Band Edge Plot (NR Band n66 Ant A – 10.0MHz - Full RB)

FCC ID: A3LSMG996U		PART 27 MEASUREMENT REPORT		Approved by: Quality Manager
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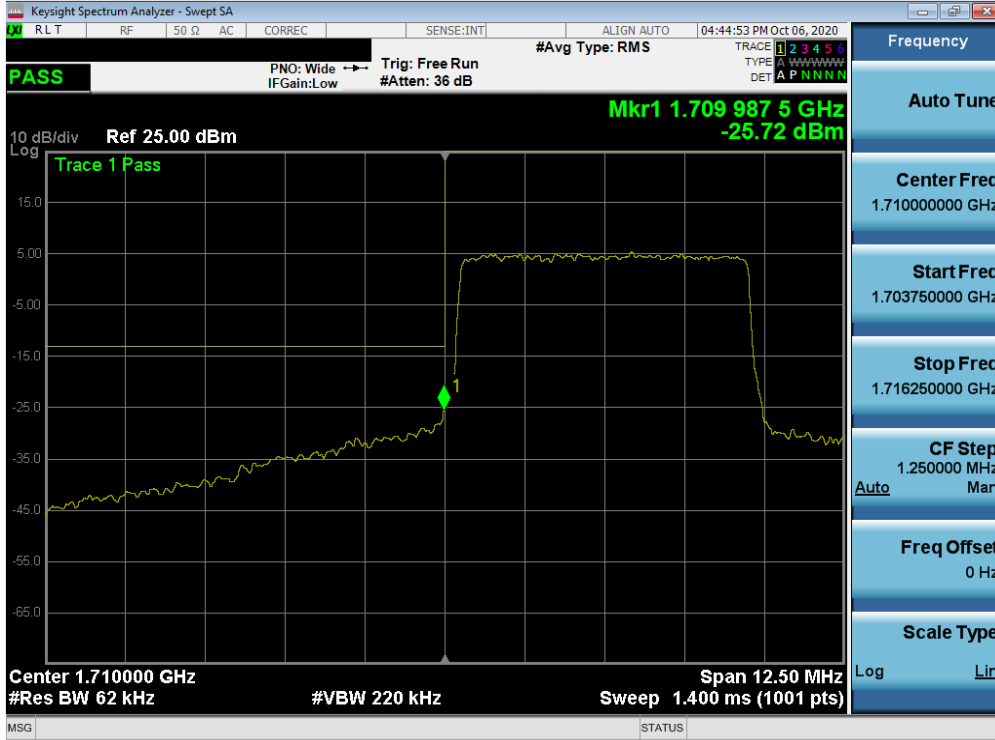


Plot 7-296. Upper Band Edge Plot (NR Band n66 Ant A – 10.0MHz - Full RB)

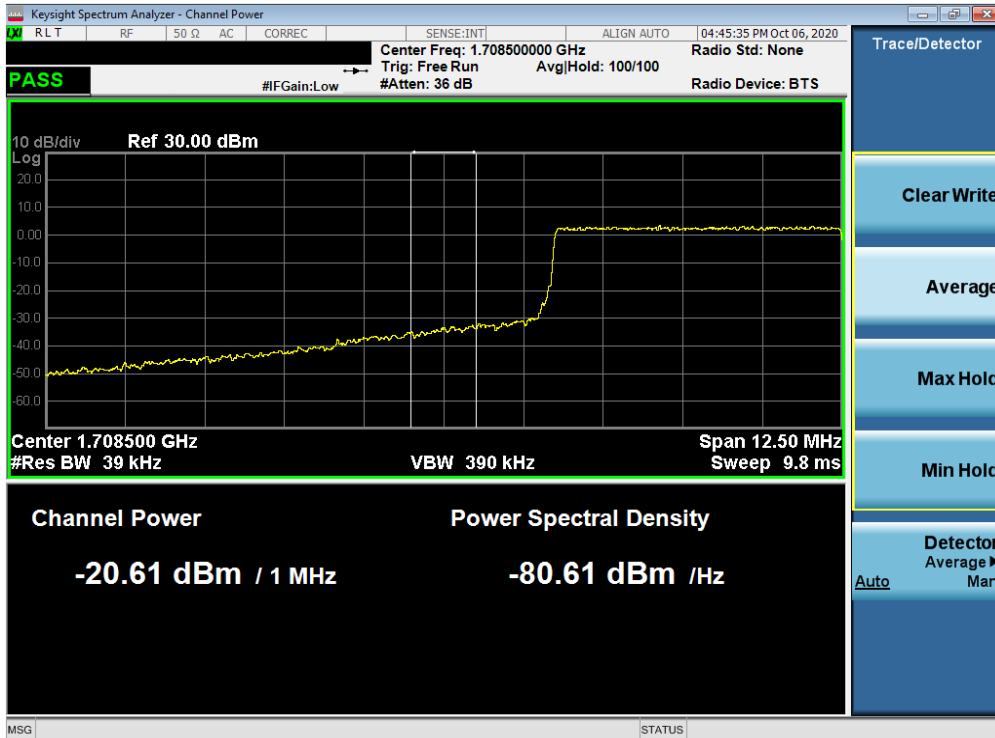


Plot 7-297. Upper Extended Band Edge Plot (NR Band n66 Ant A – 10.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 175 of 332

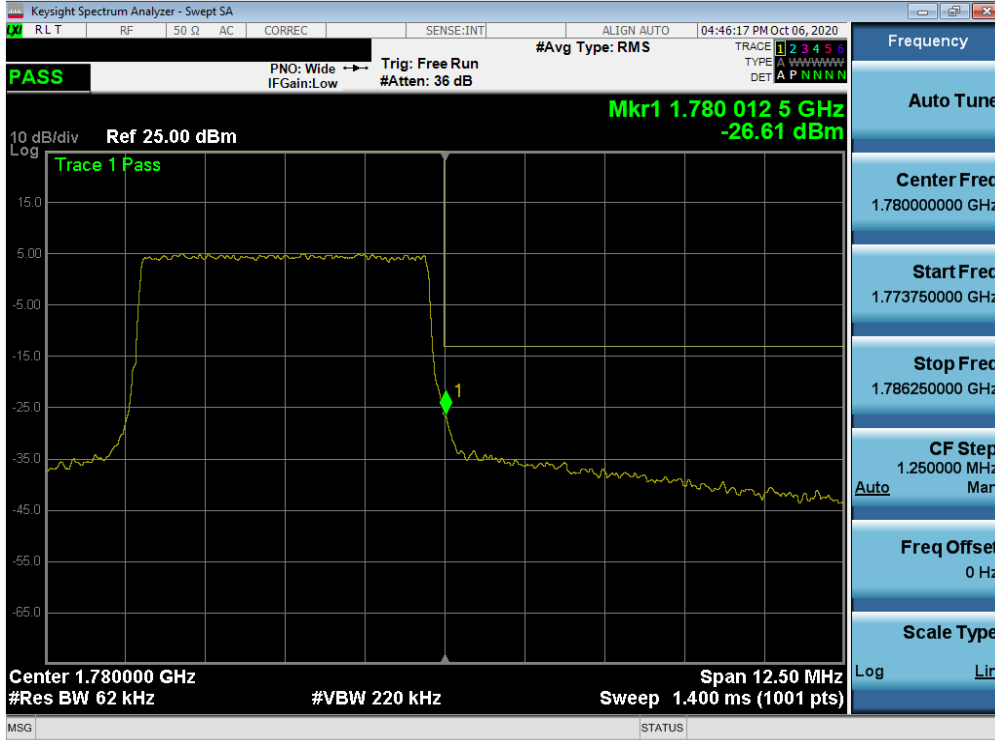


Plot 7-298. Lower Band Edge Plot (NR Band n66 Ant A – 5.0MHz - Full RB)

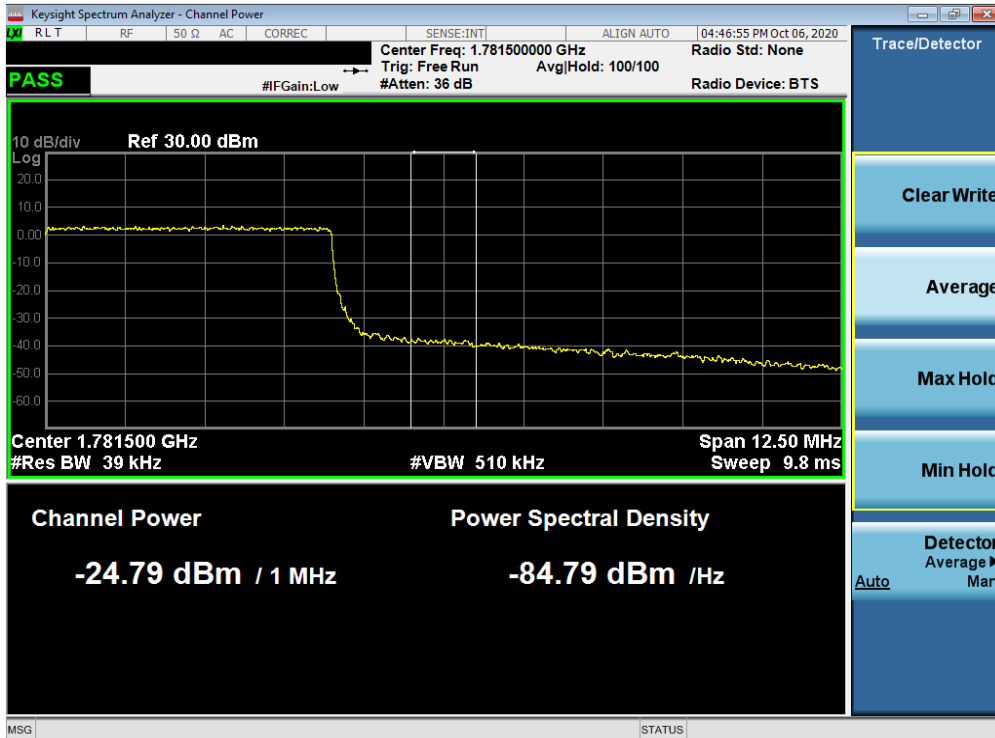


Plot 7-299. Lower Extended Band Edge Plot (NR Band n66 Ant A – 5.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 176 of 332



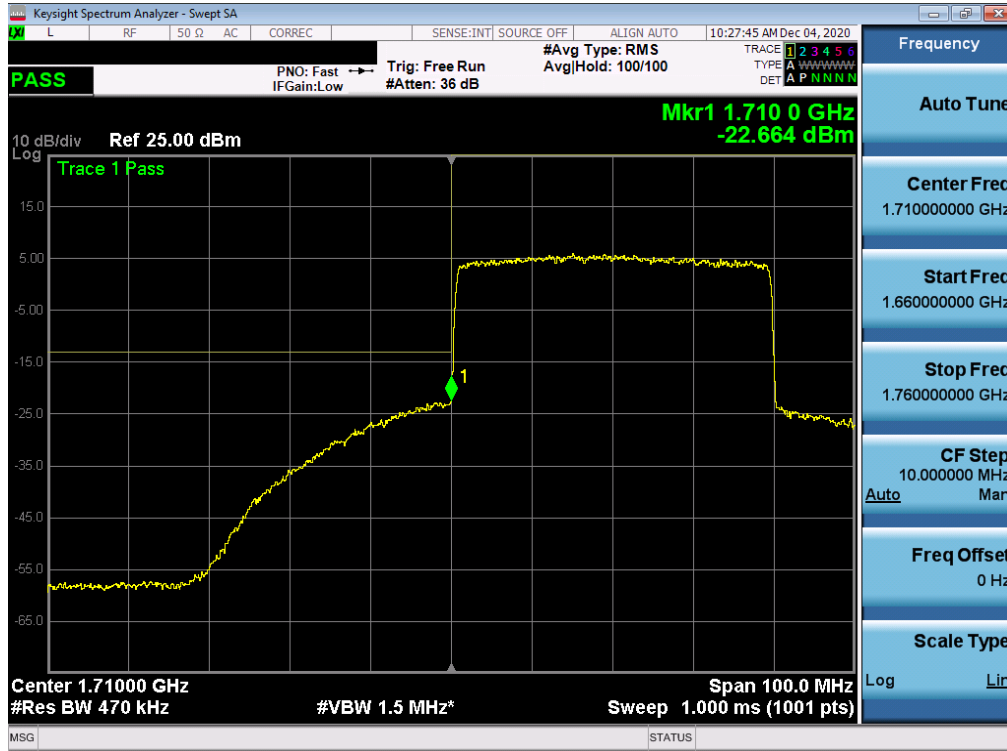
Plot 7-300. Upper Band Edge Plot (NR Band n66 Ant A – 5.0MHz - Full RB)



Plot 7-301. Upper Extended Band Edge Plot (NR Band n66 Ant A – 5.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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NR Band n66 Ant I



Plot 7-302. Lower Band Edge Plot (NR Band n66 Ant I – 40.0MHz - Full RB)



Plot 7-303. Upper Band Edge Plot (NR Band n66 Ant I – 40.0MHz - Full RB)

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009140143-20-R1.A3L	Test Dates: 09/15/2020 – 12/05/2020	EUT Type: Portable Handset		Page 178 of 332