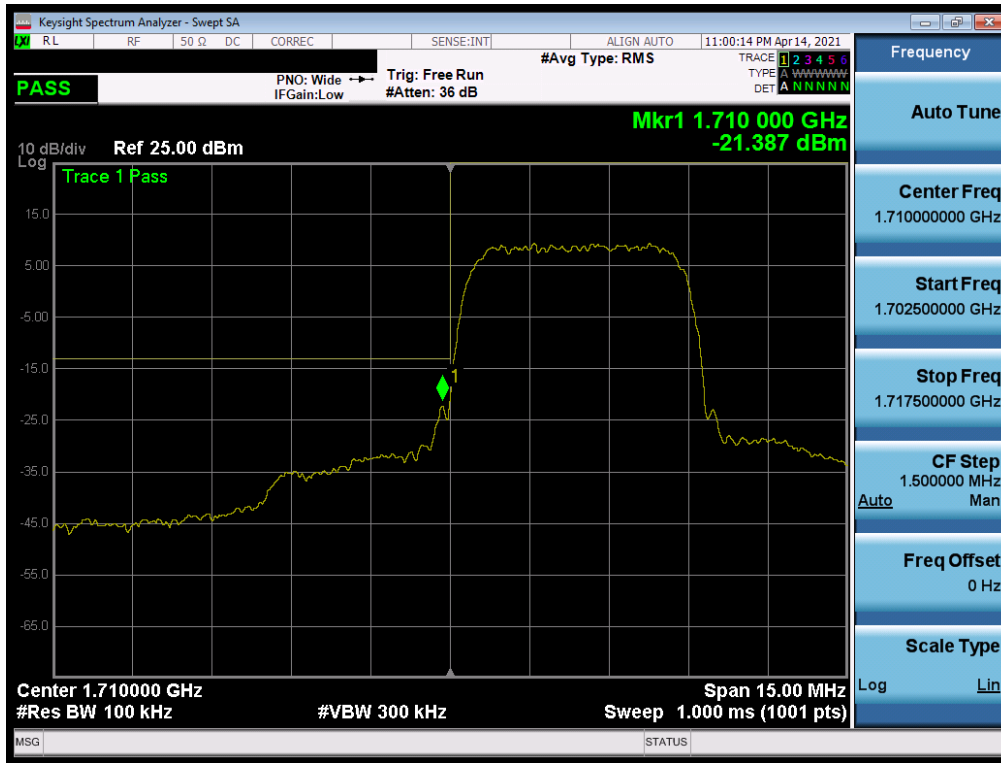
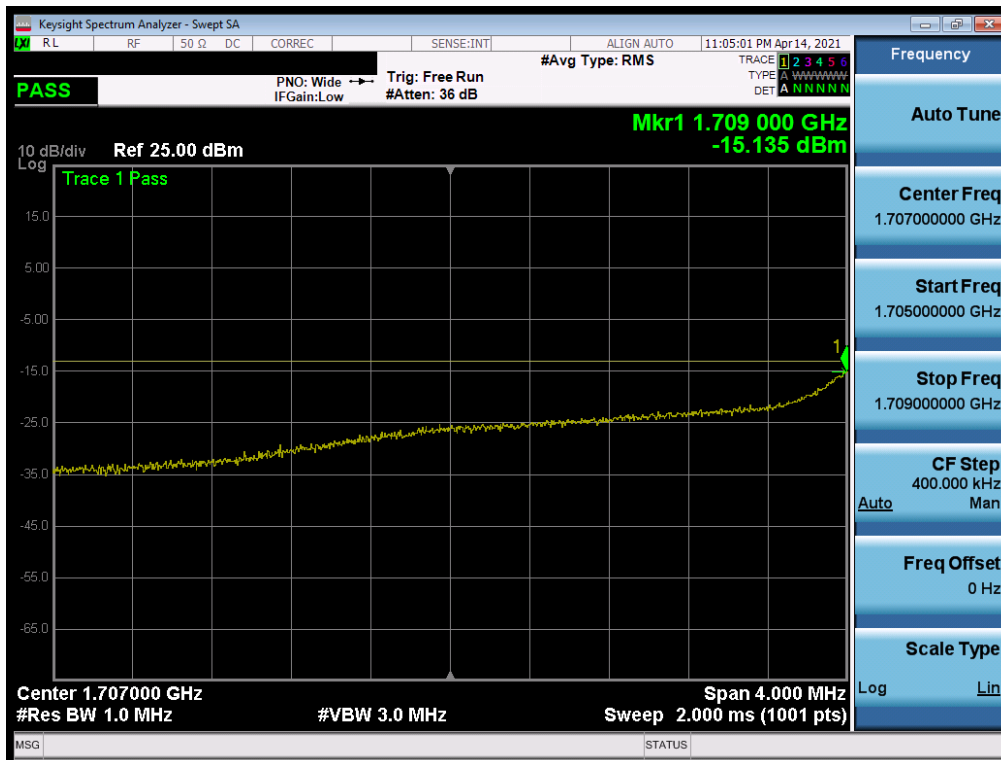


WCDMA AWS

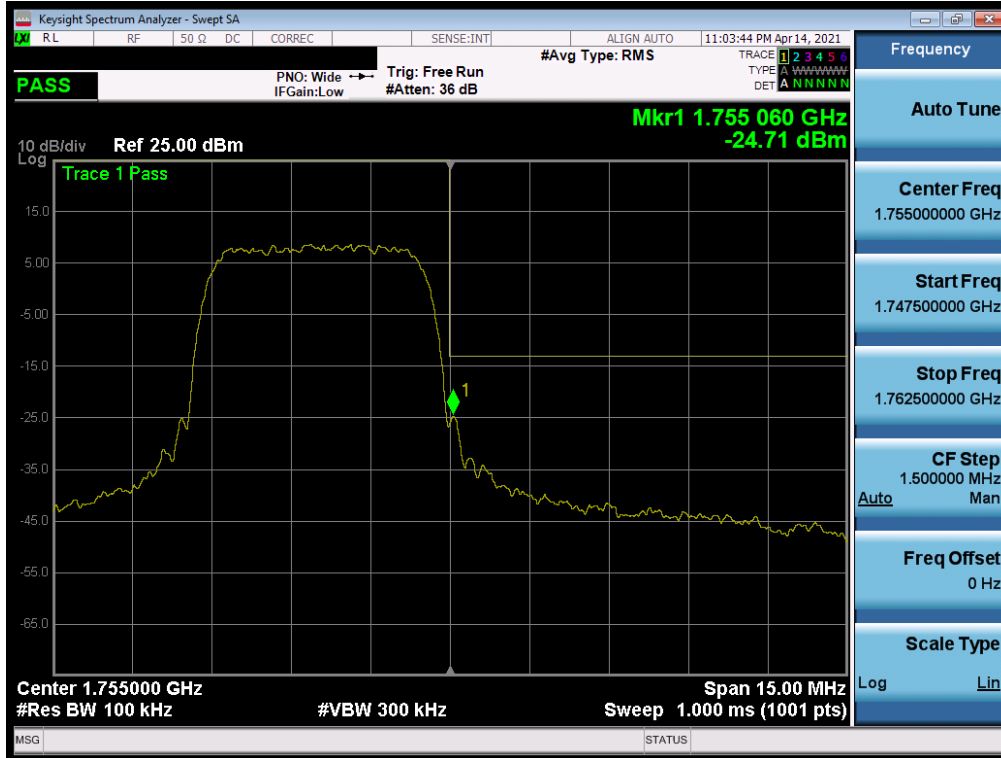


Plot 7-204. Lower Band Edge Plot (WCDMA AWS – Ch. 1312)

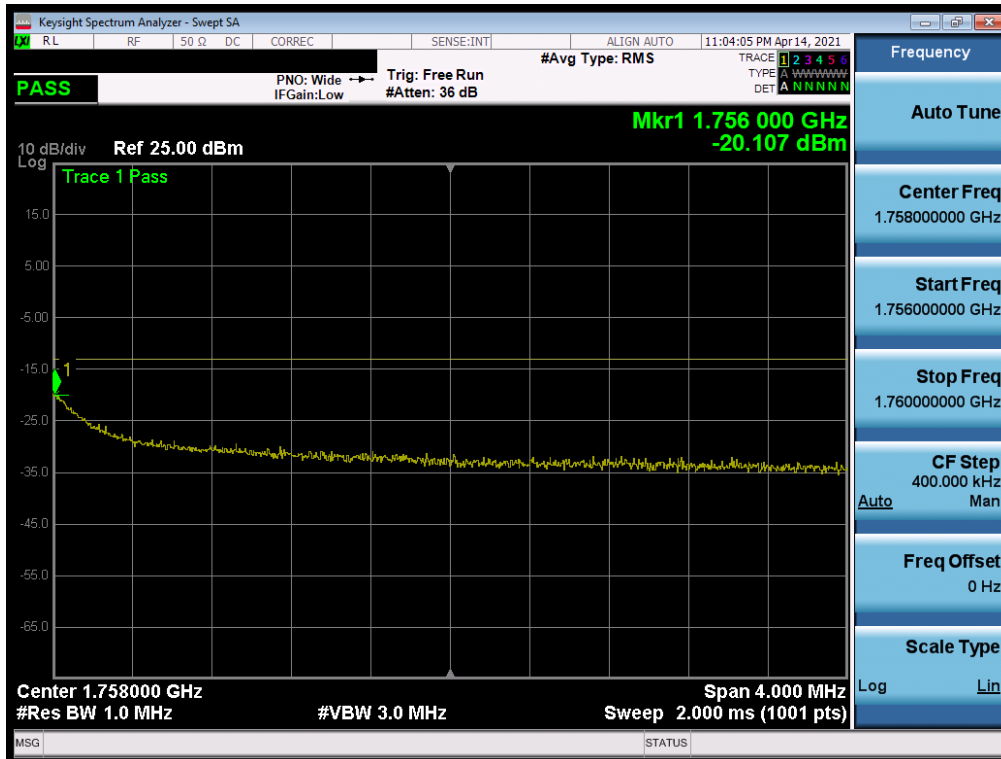


Plot 7-205. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312)



FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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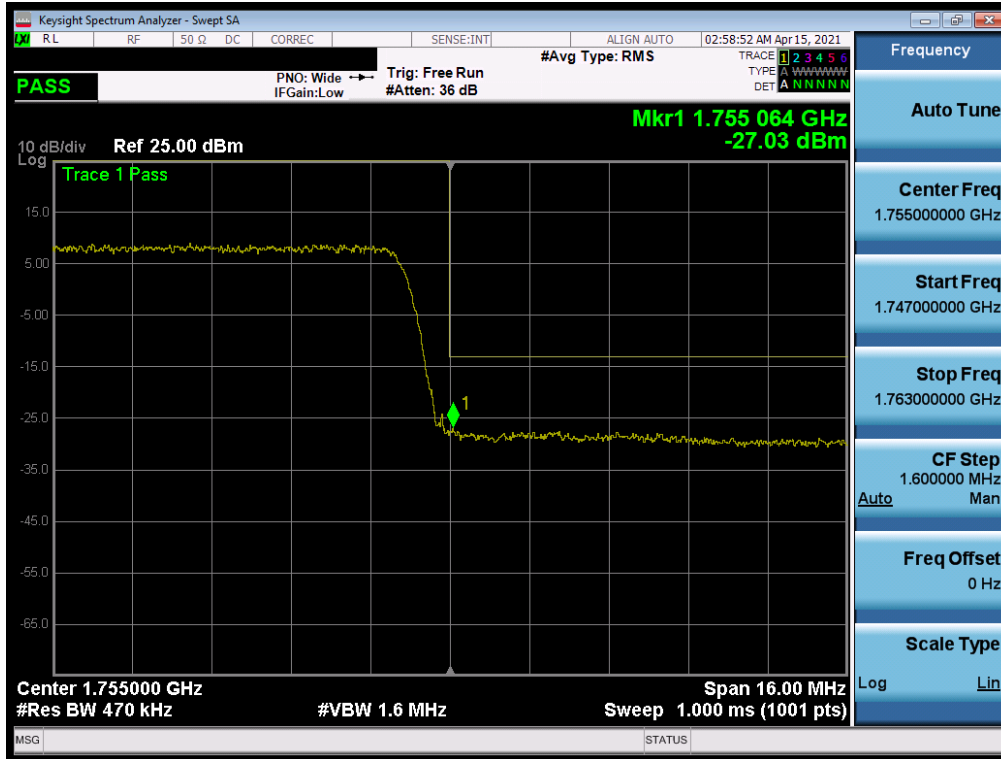


Plot 7-206. Upper Band Edge Plot (WCDMA AWS – Ch. 1513)



Plot 7-207. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513)

FCC ID: A3LSMF711U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-210. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

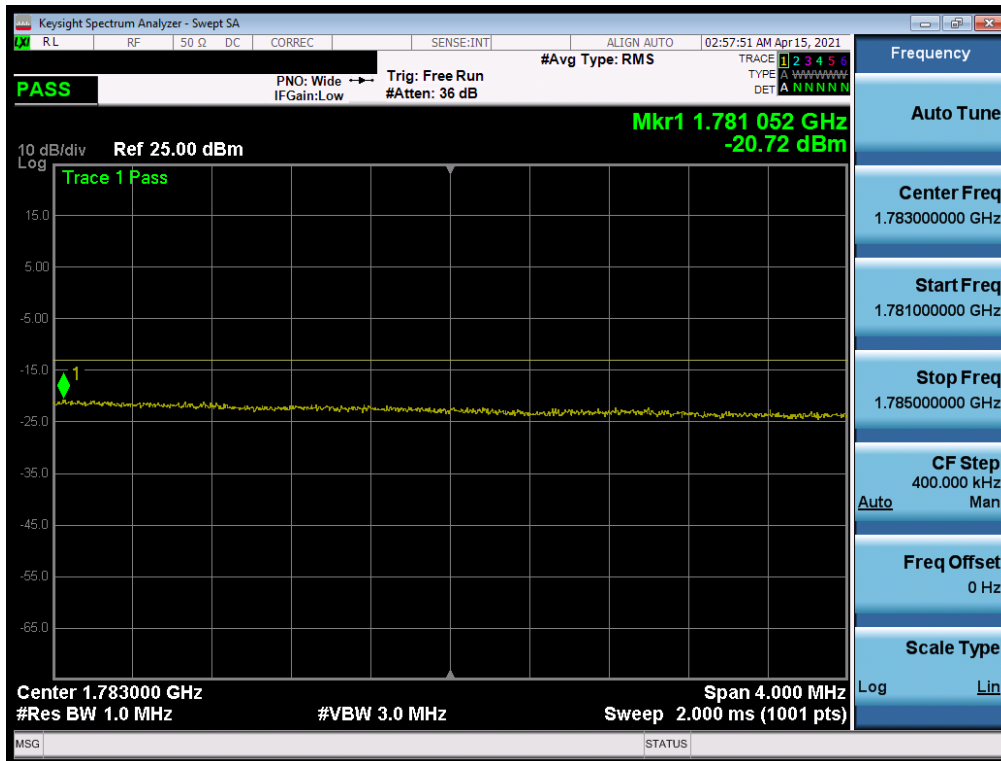


Plot 7-211. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 131 of 254

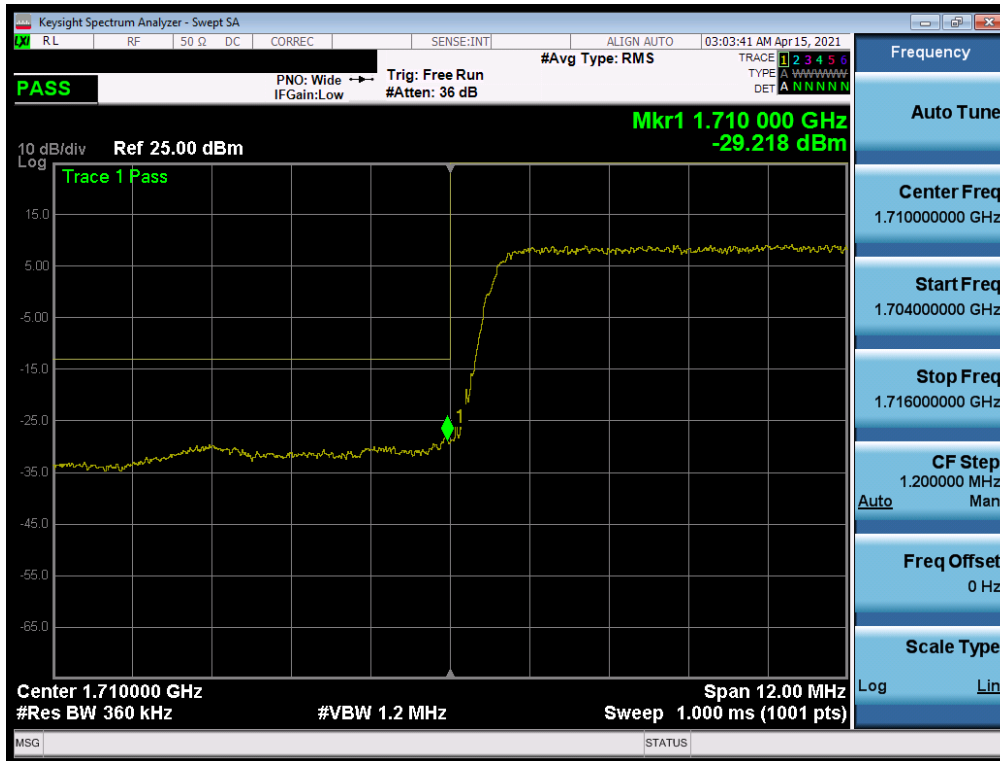


Plot 7-212. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)

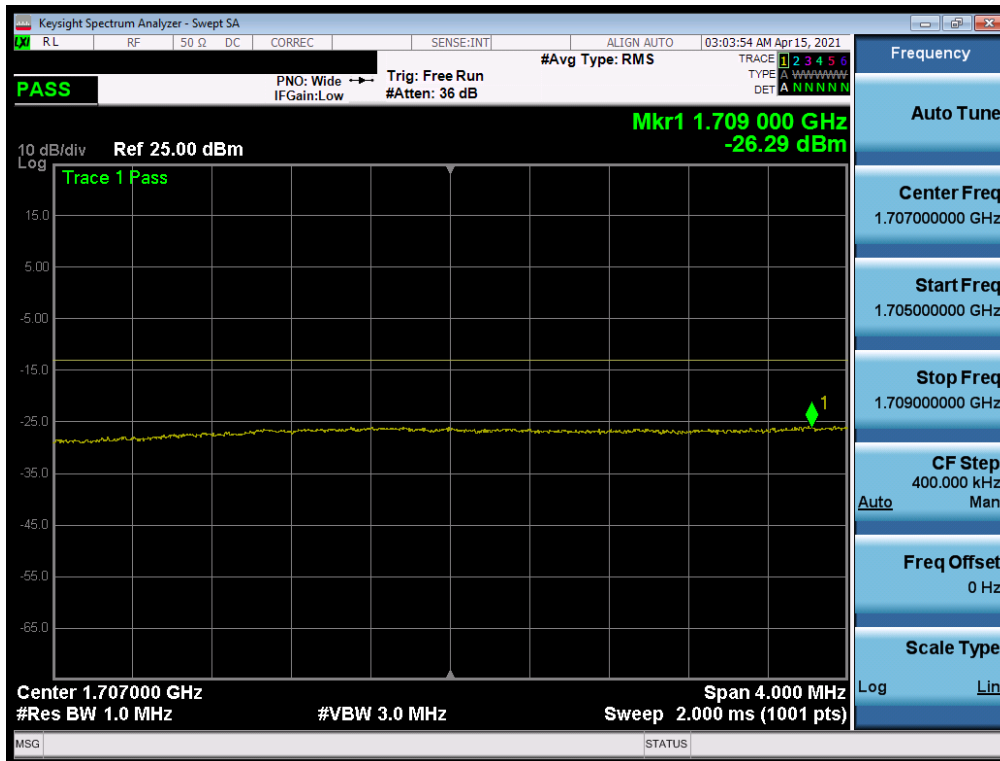


Plot 7-213. Channel Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 132 of 254

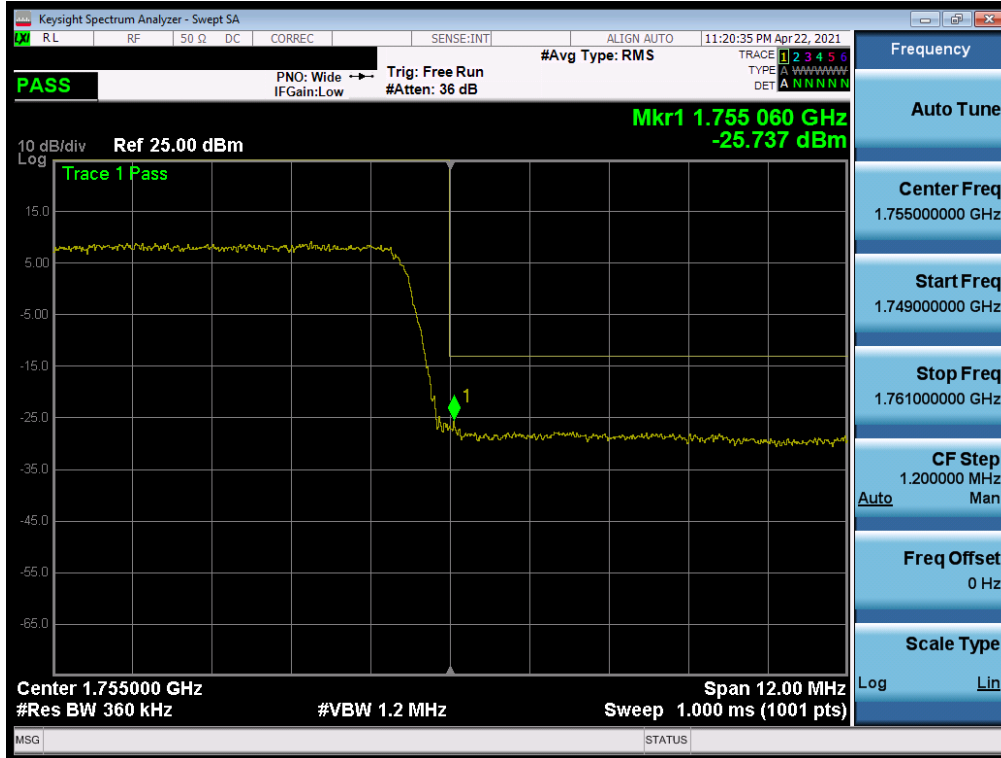


Plot 7-214. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB)



Plot 7-215. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 133 of 254

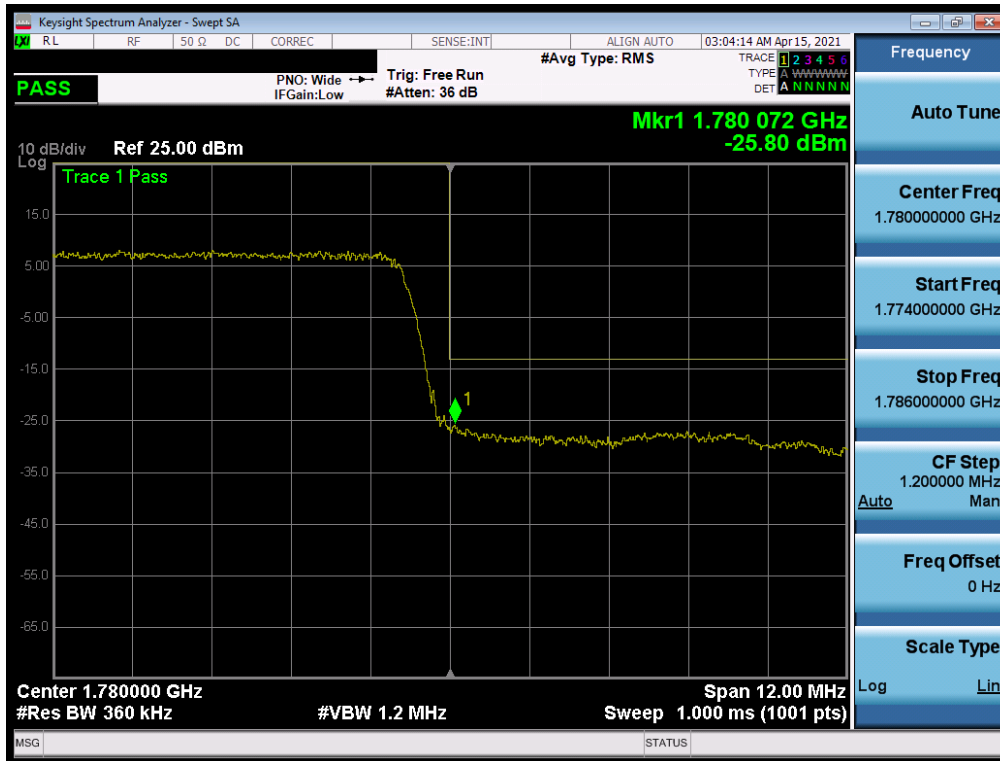


Plot 7-216. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

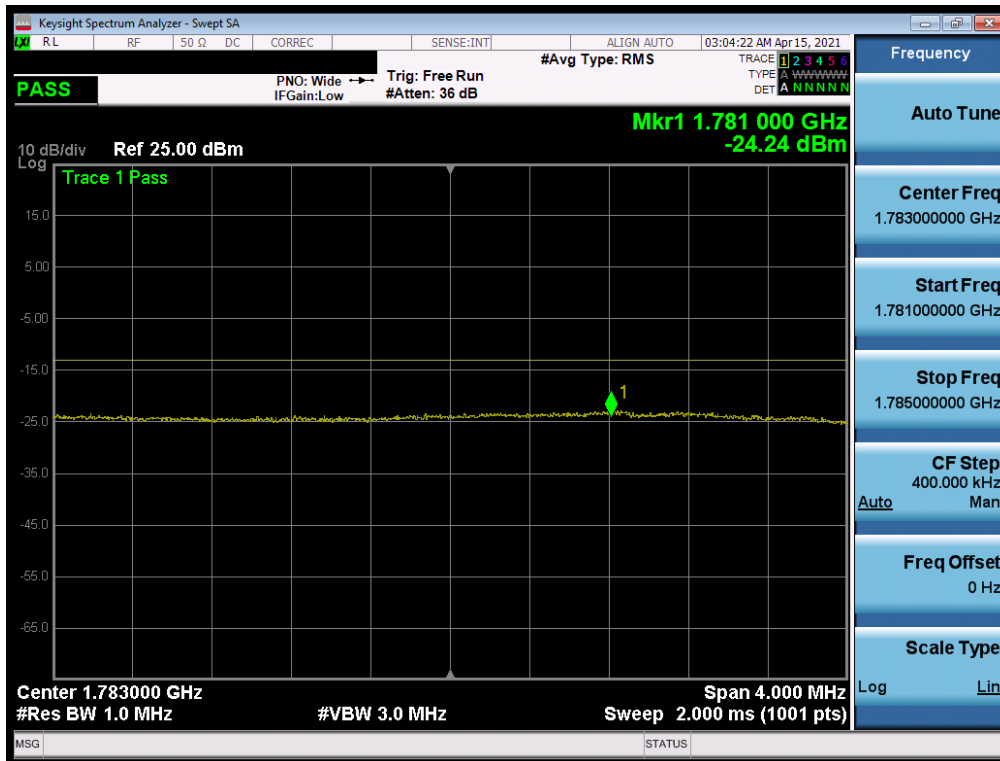


Plot 7-217. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 134 of 254

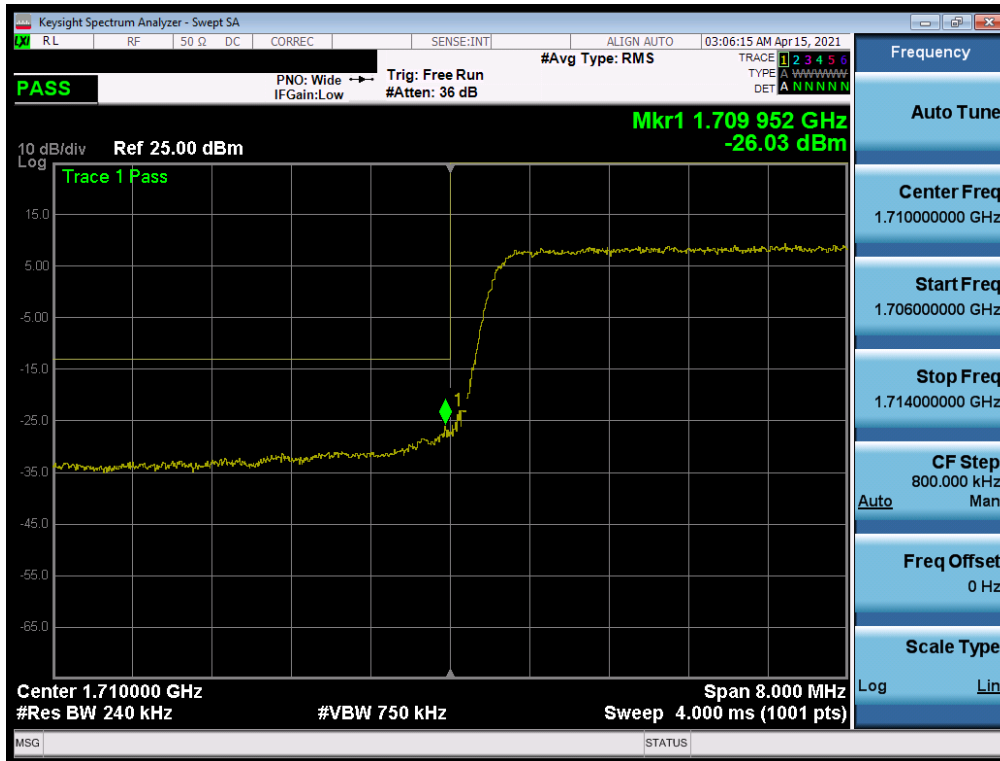


Plot 7-218. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)

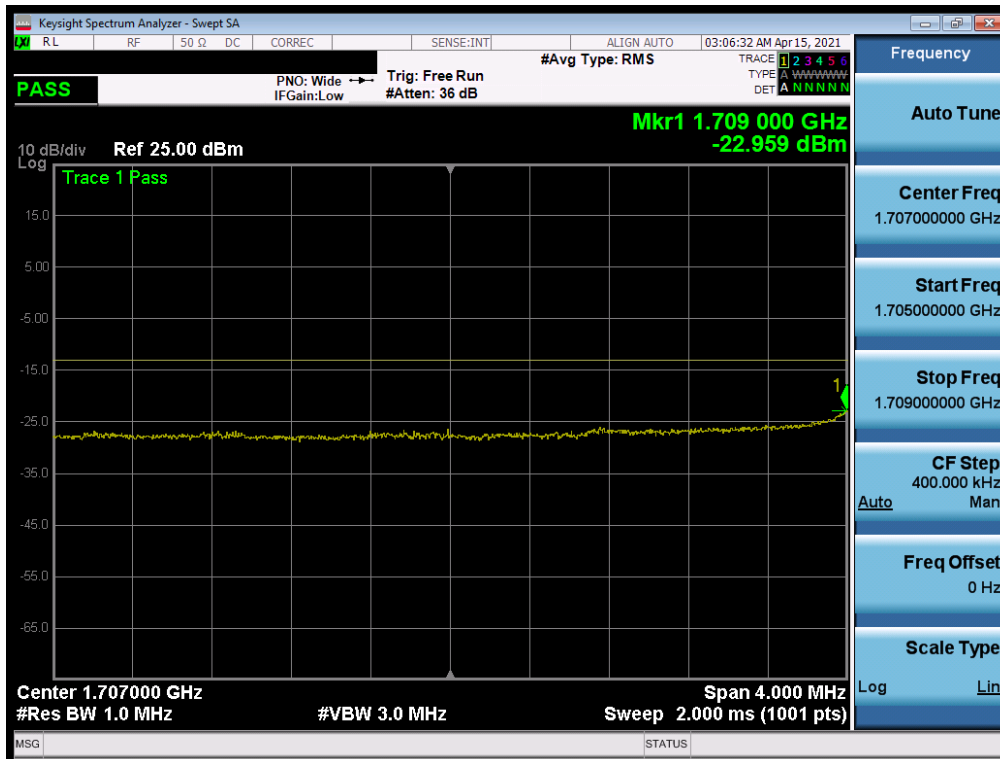


Plot 7-219. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 135 of 254



Plot 7-220. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB)

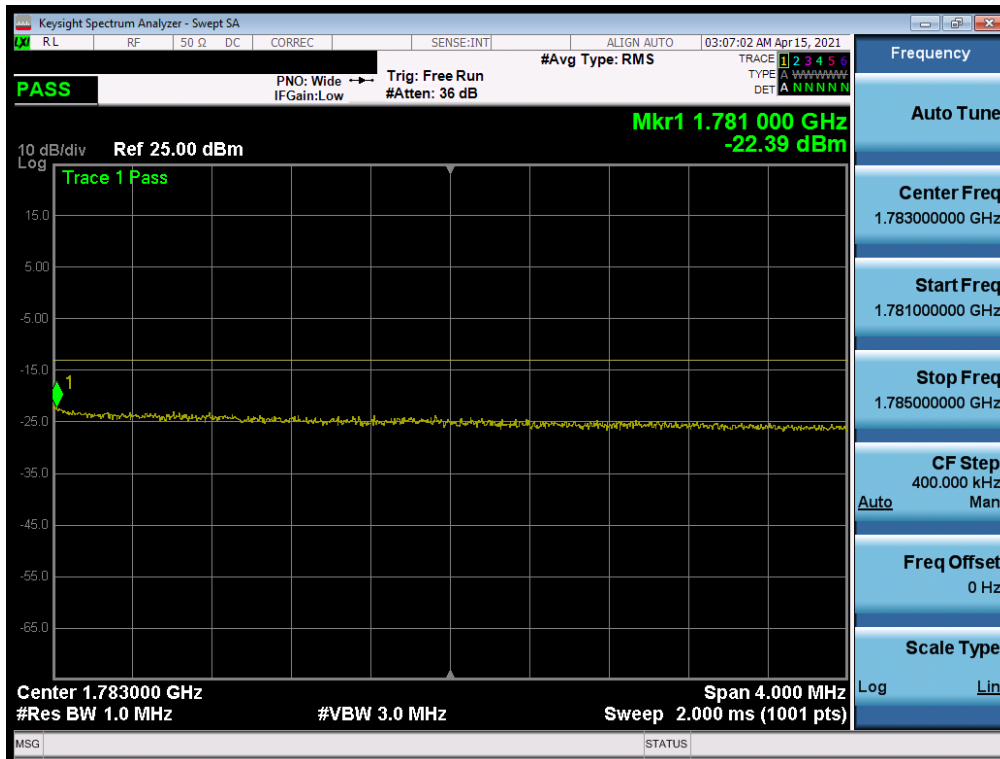


Plot 7-221. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 136 of 254



Plot 7-224. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)

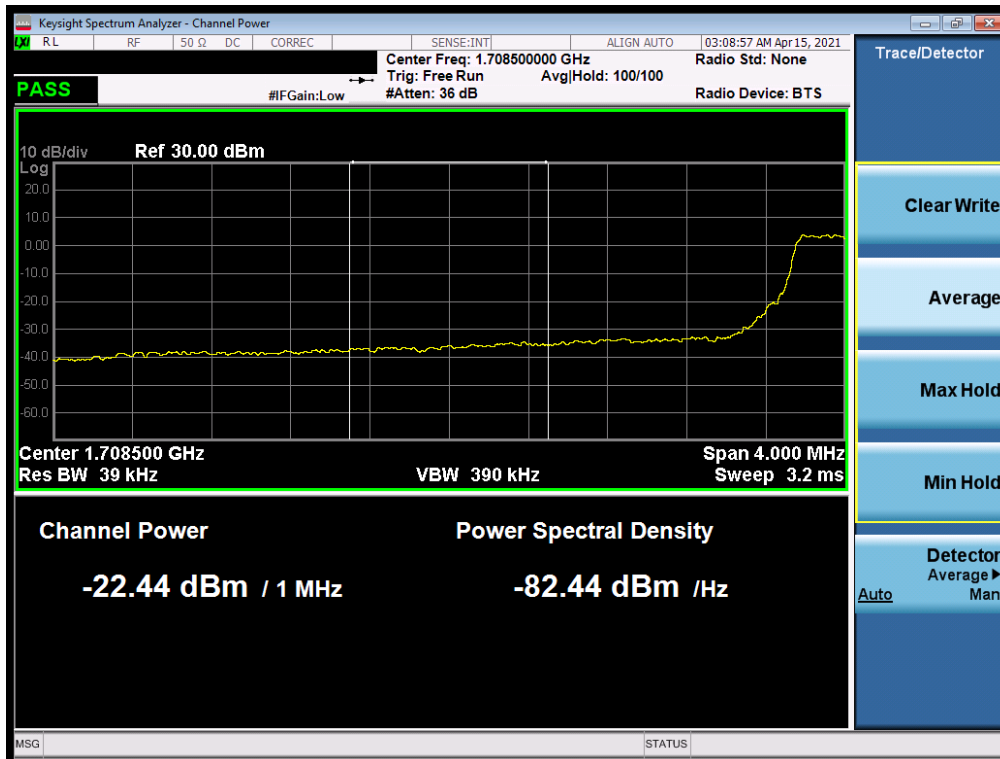


Plot 7-225. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 138 of 254



Plot 7-226. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB)

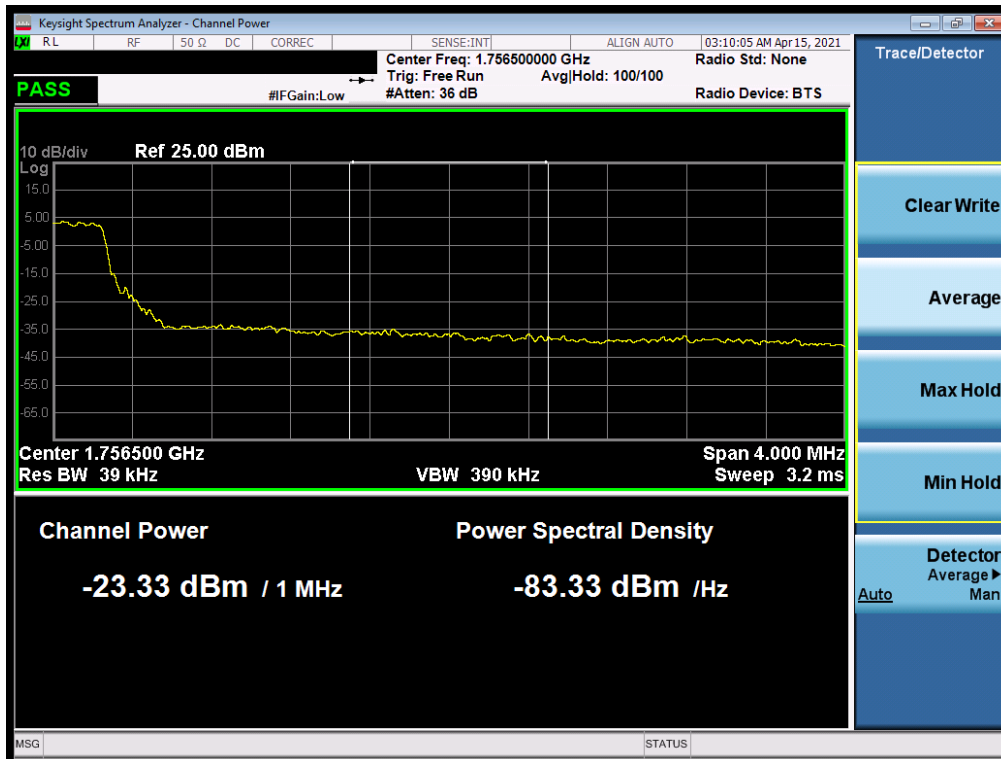


Plot 7-227. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 139 of 254

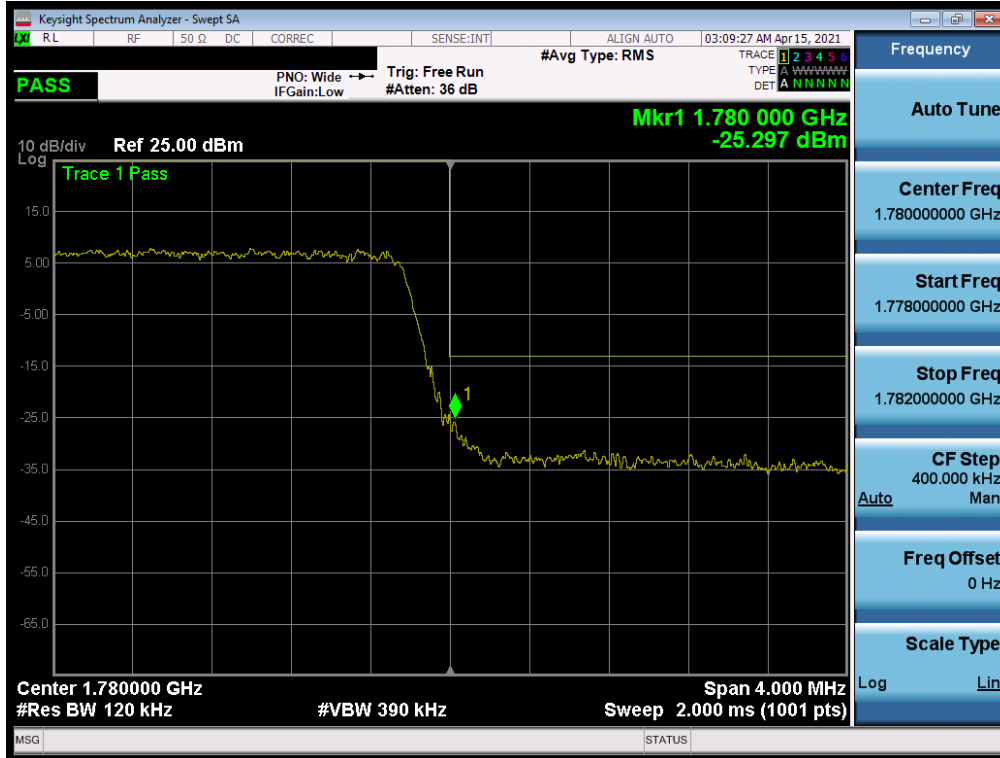


Plot 7-228. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

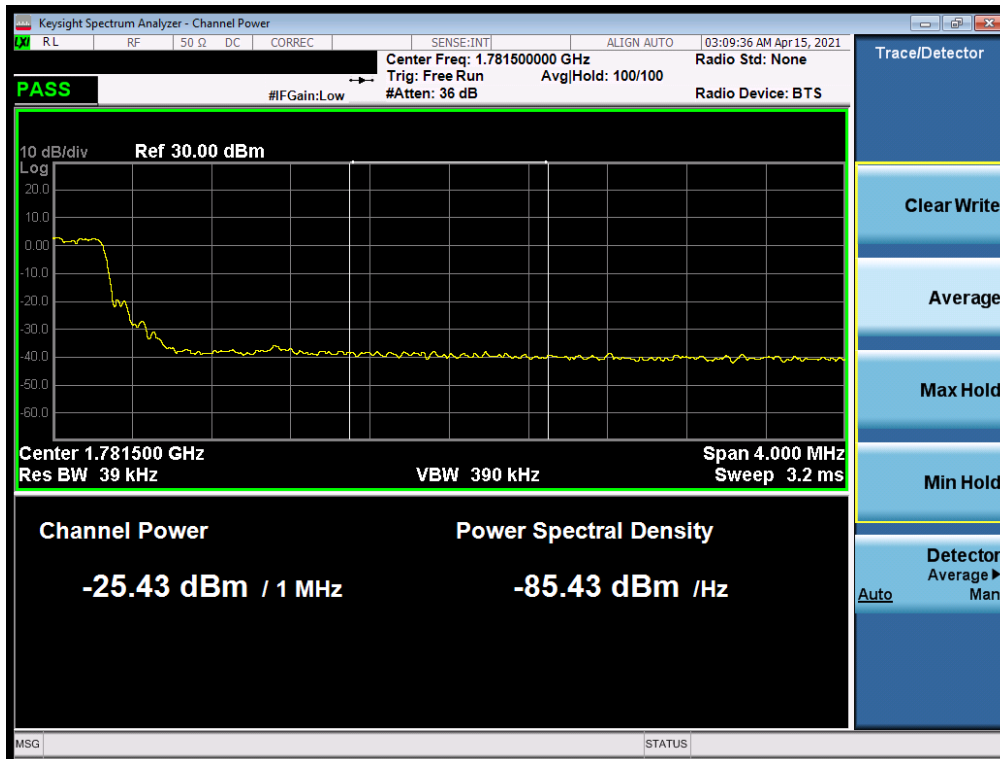


Plot 7-229. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 140 of 254

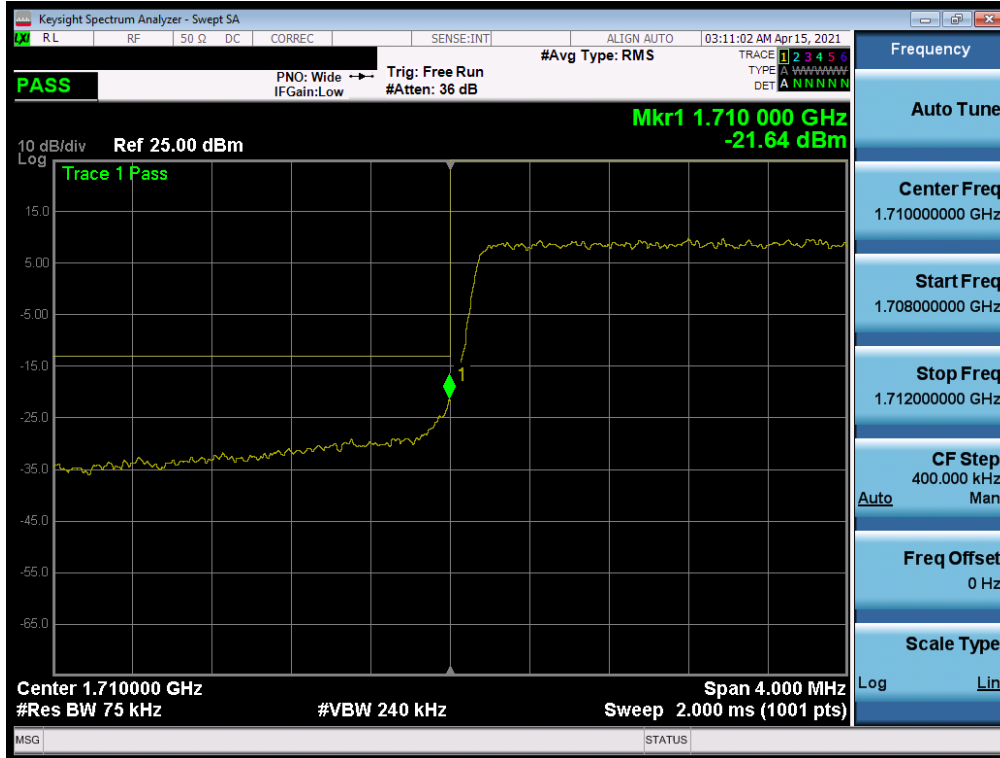


Plot 7-230. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

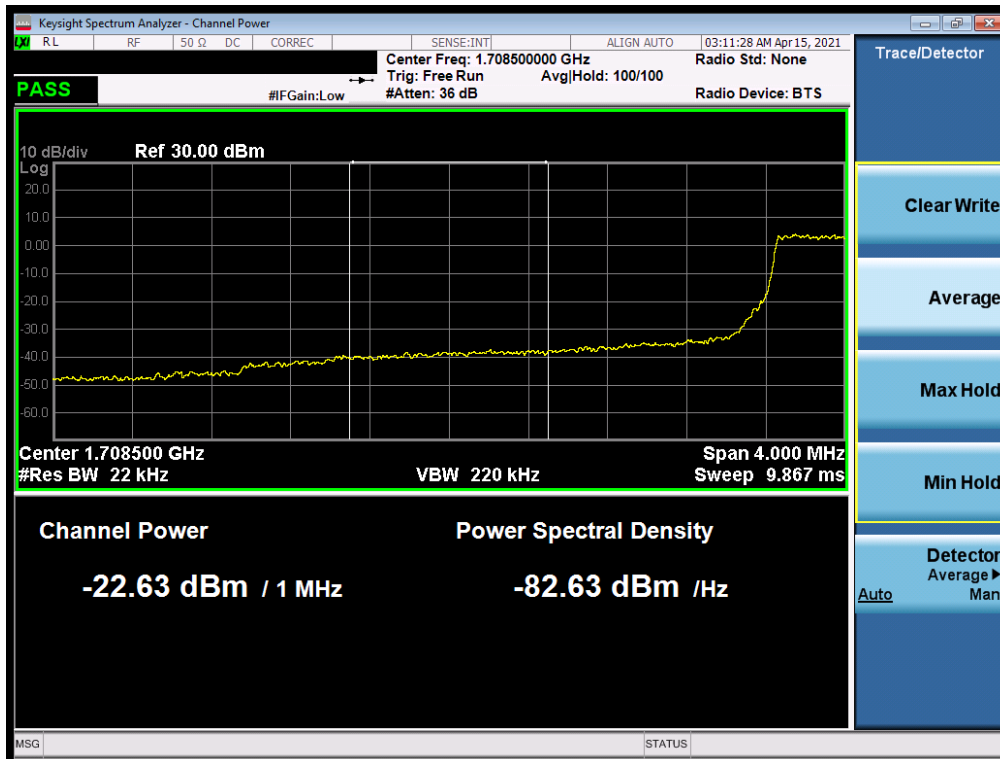


Plot 7-231. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 141 of 254

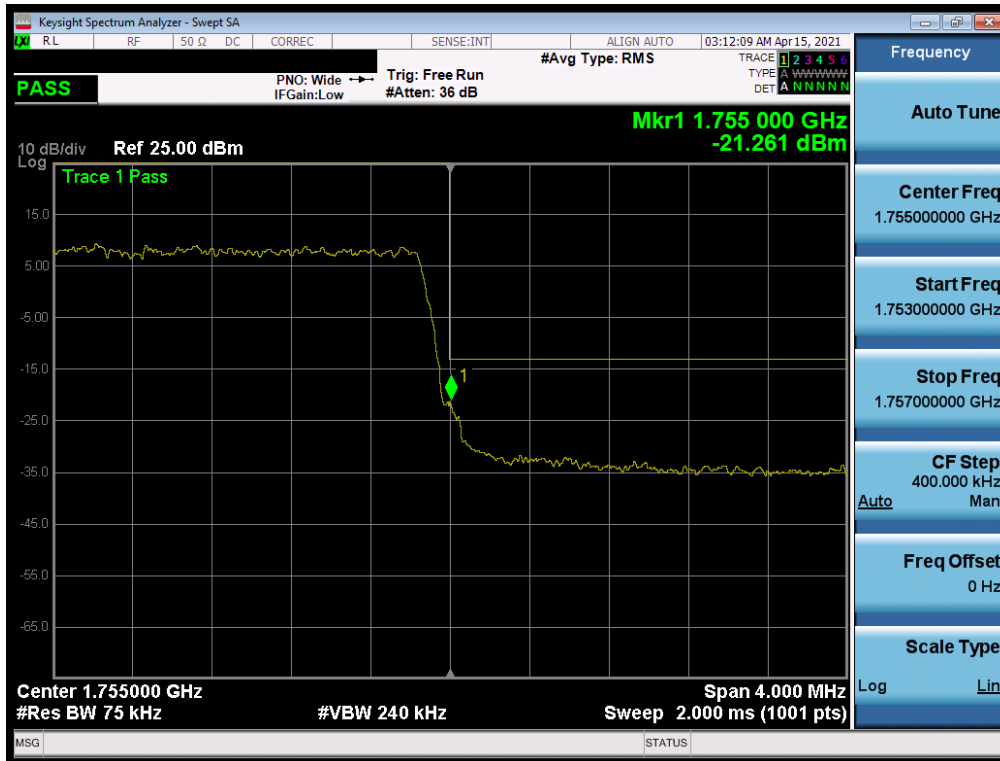


Plot 7-232. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB)

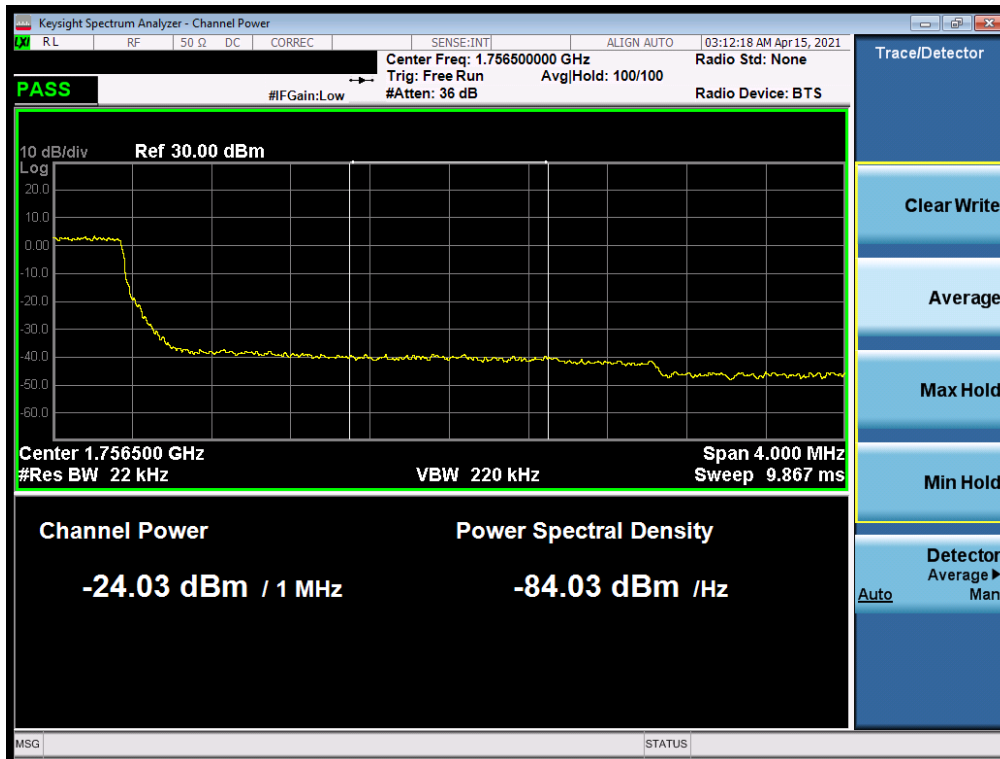


Plot 7-233. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-234. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)

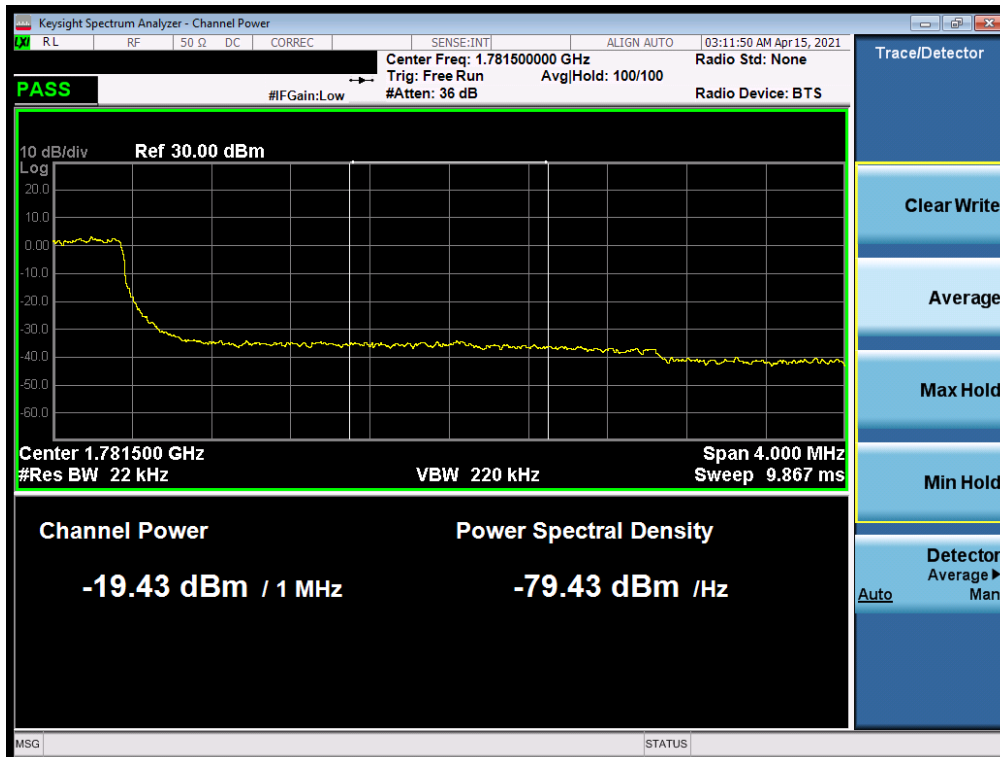


Plot 7-235. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 143 of 254

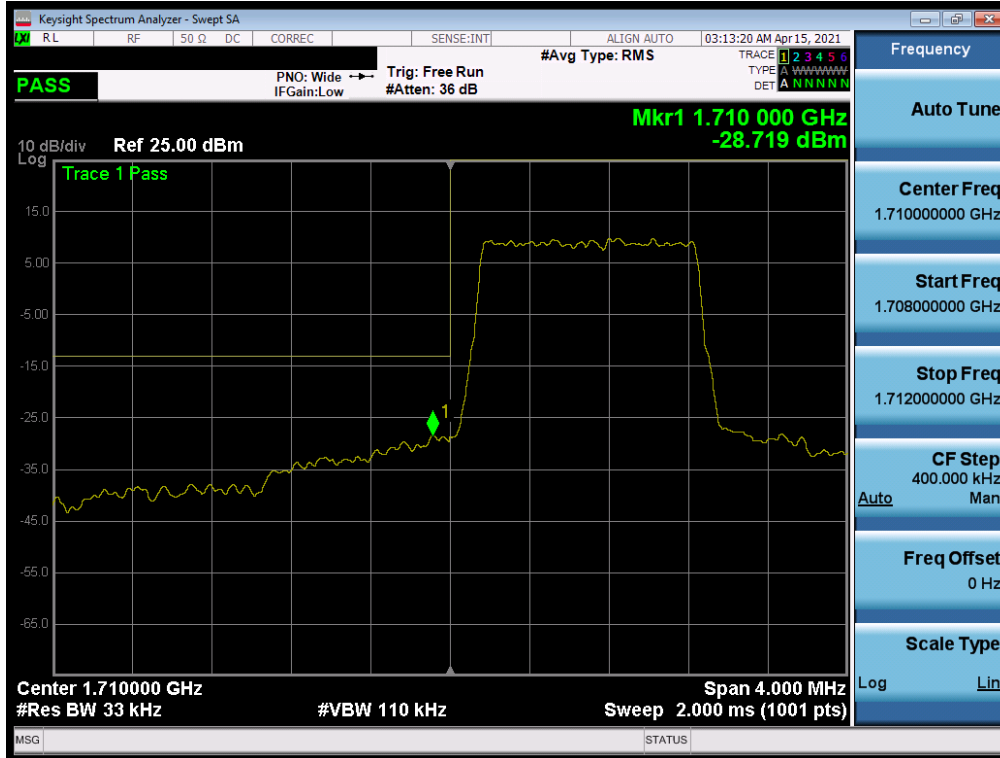


Plot 7-236. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

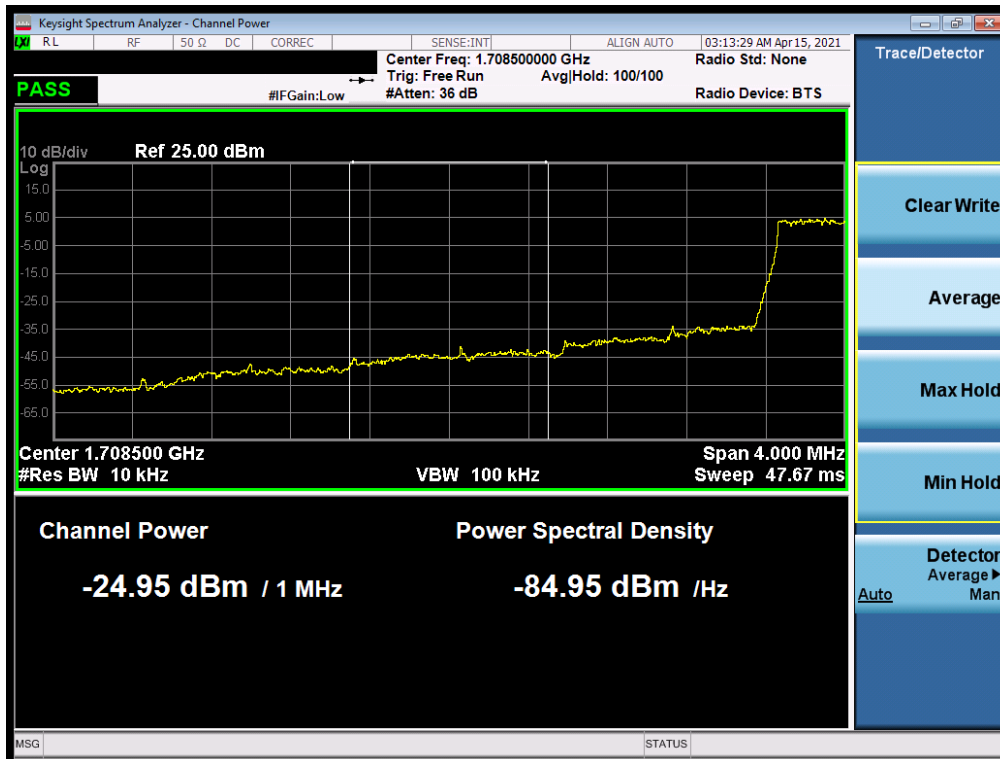


Plot 7-237. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 144 of 254

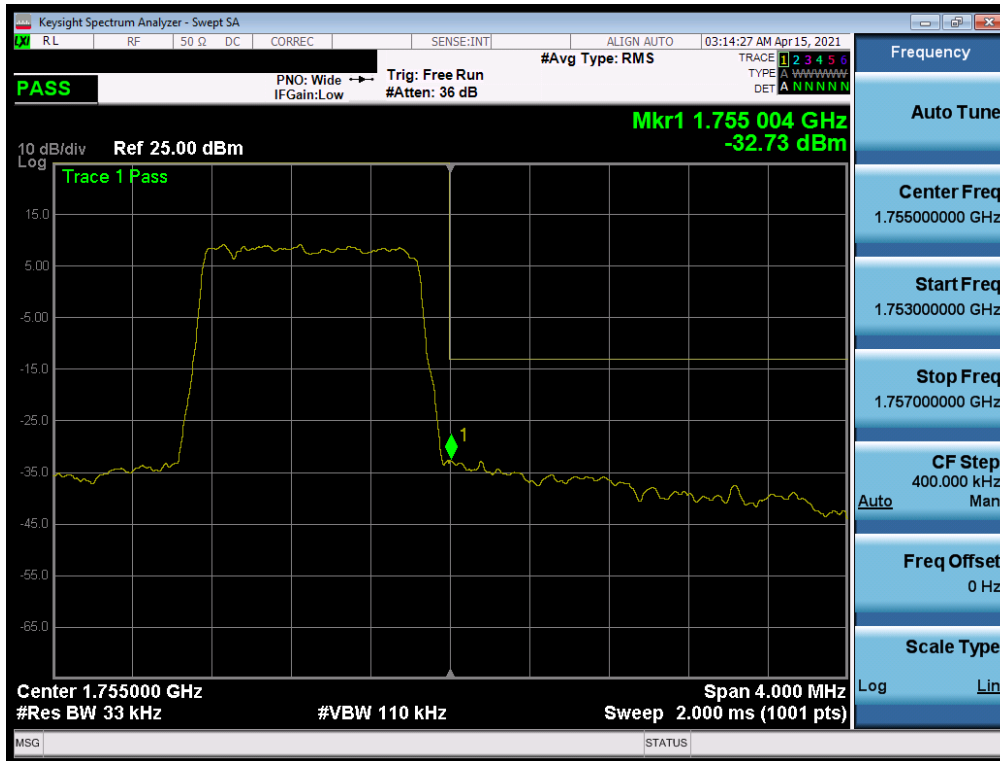


Plot 7-238. Lower Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB)

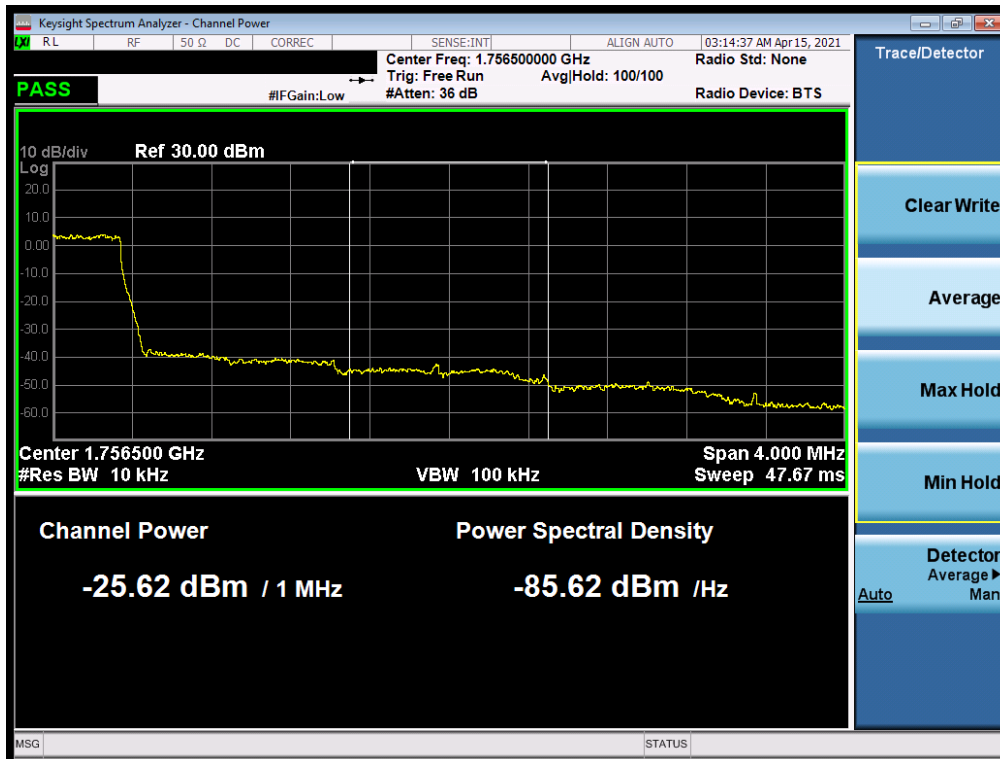


Plot 7-239. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 145 of 254

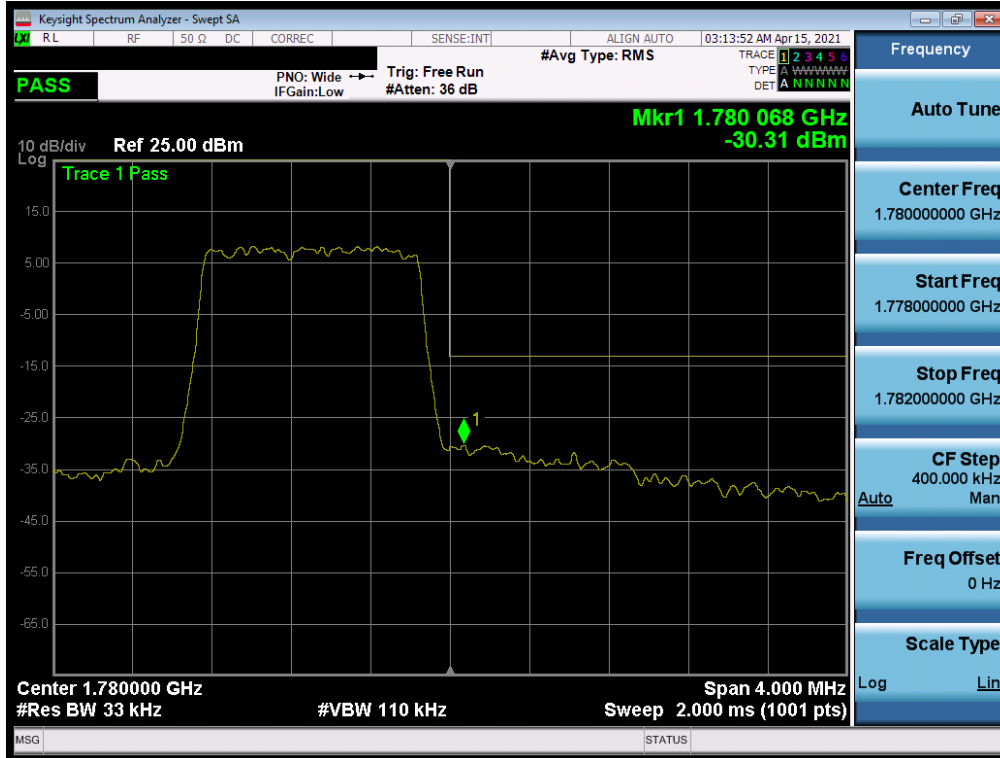


Plot 7-240. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

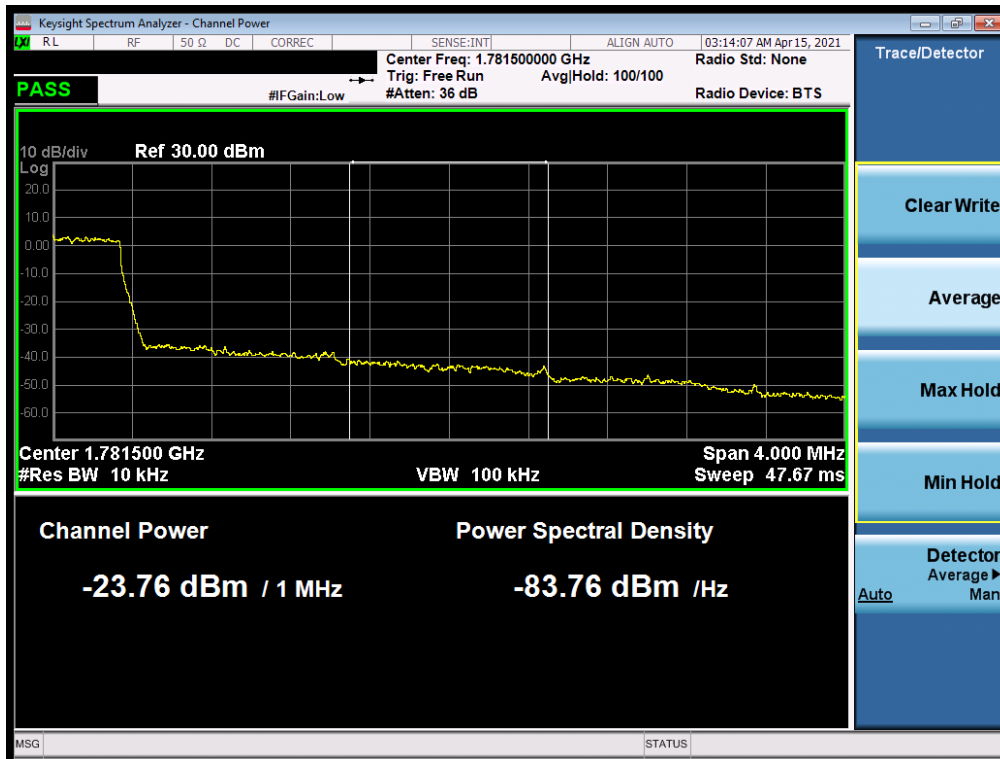


Plot 7-241. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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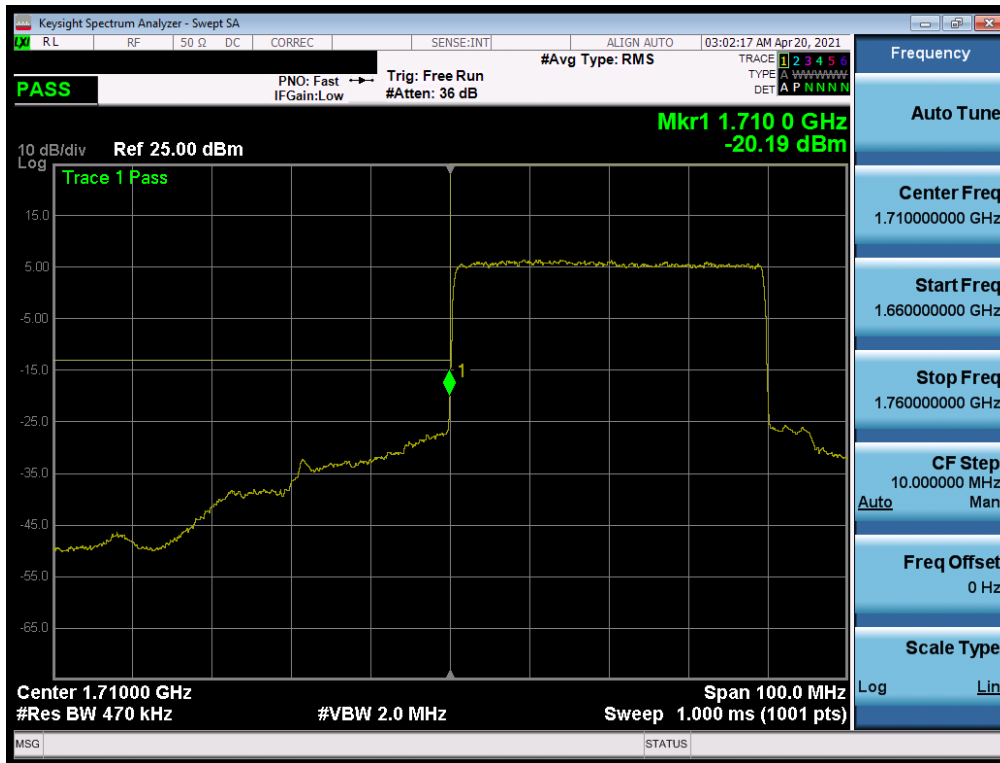
Plot 7-242. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)



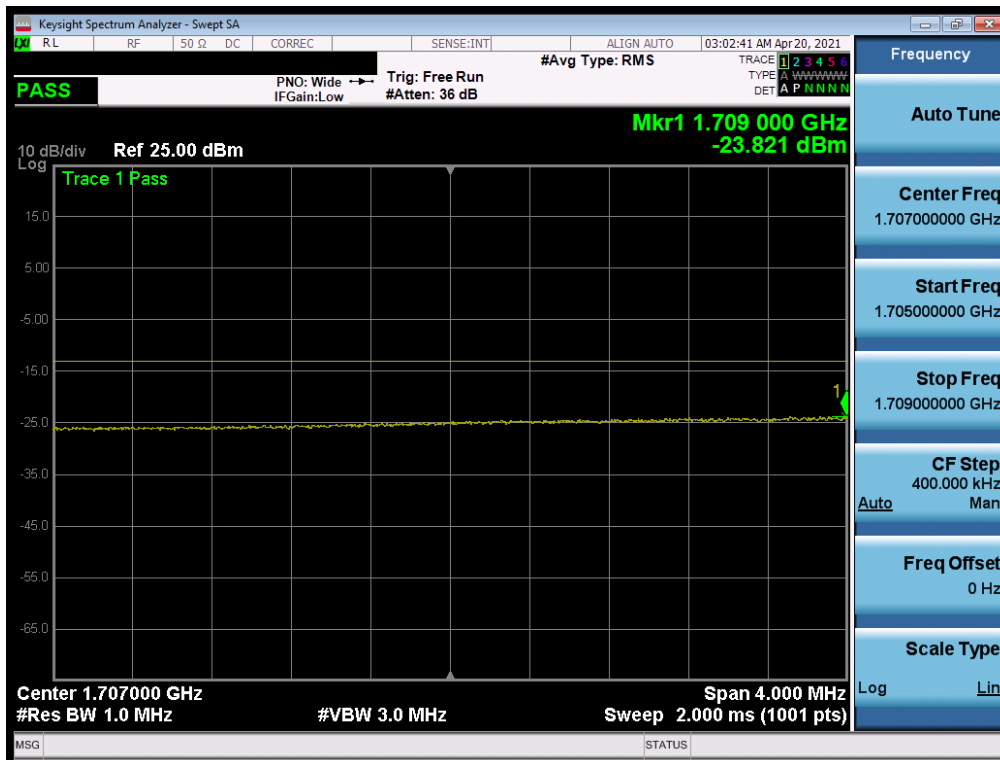
Plot 7-243. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n66 – Ant A



Plot 7-244. Lower Band Edge Plot (NR Band n66 – 40.0MHz - Full RB)

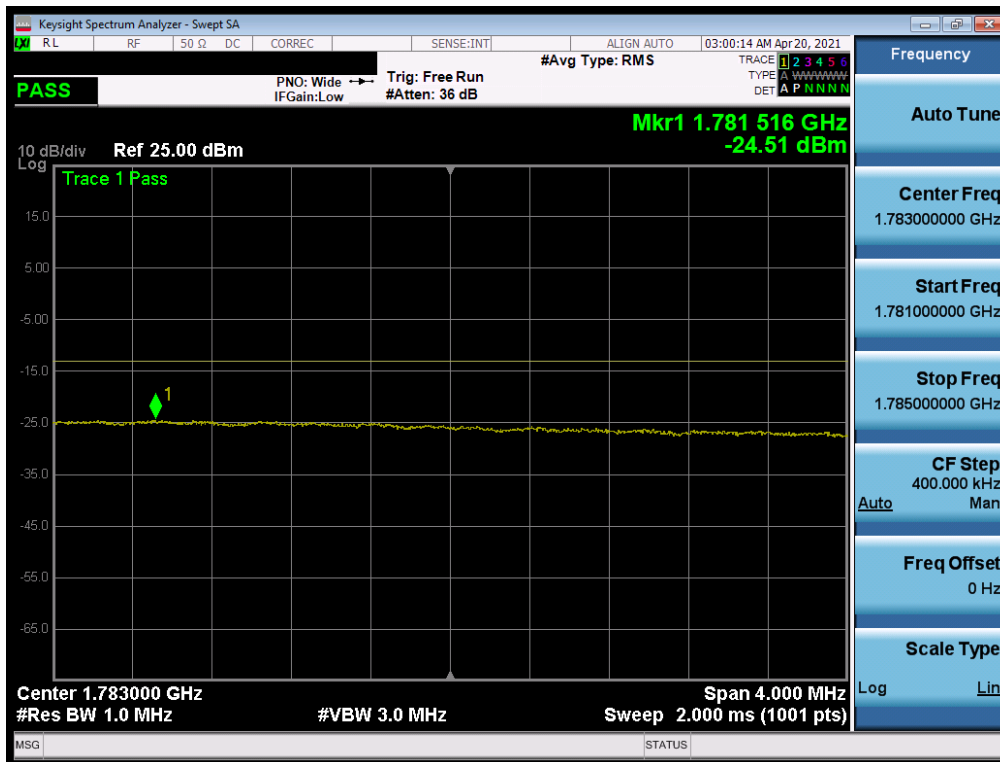


Plot 7-245. Lower Extended Band Edge Plot (NR Band n66 – 40.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 148 of 254

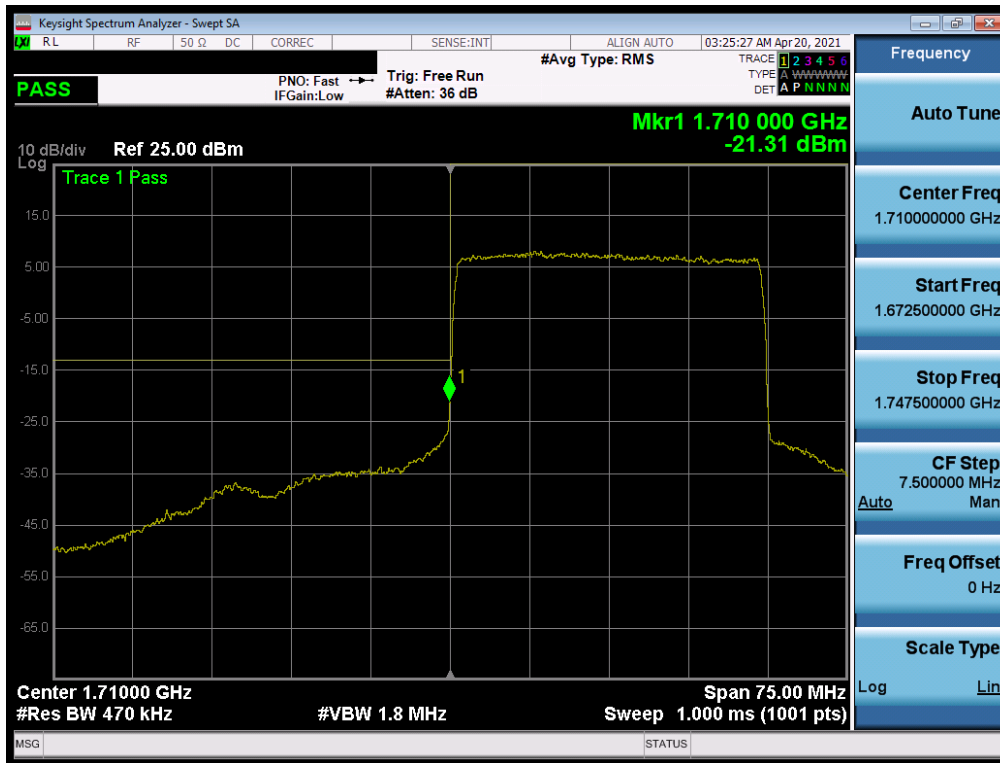


Plot 7-246. Upper Band Edge Plot (NR Band n66 – 40.0MHz - Full RB)

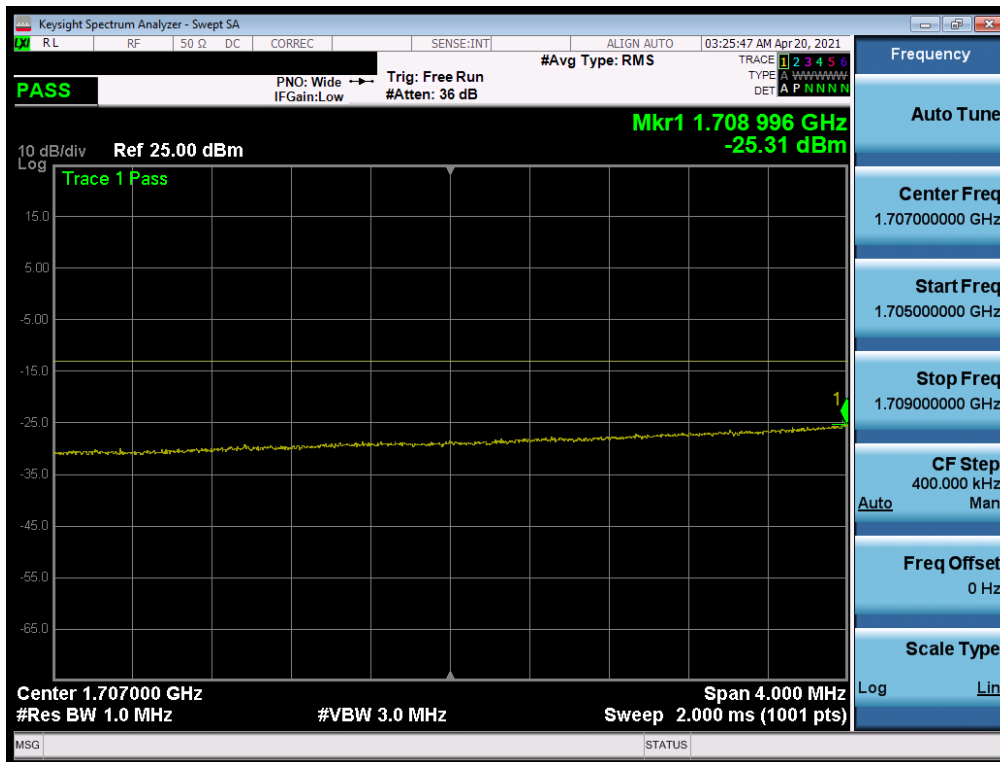


Plot 7-247. Upper Extended Band Edge Plot (NR Band n66 – 40.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-248. Lower Band Edge Plot (NR Band n66 – 30.0MHz - Full RB)

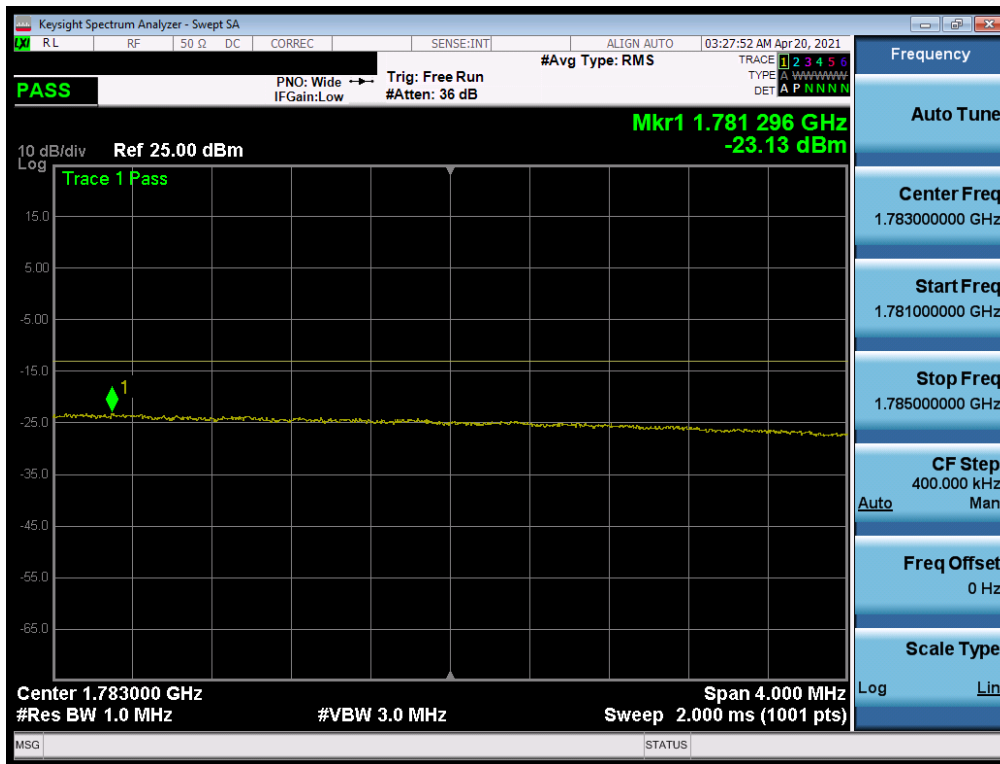


Plot 7-249. Lower Extended Band Edge Plot (NR Band n66 – 30.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 150 of 254



Plot 7-250. Upper Band Edge Plot (NR Band n66 – 30.0MHz - Full RB)

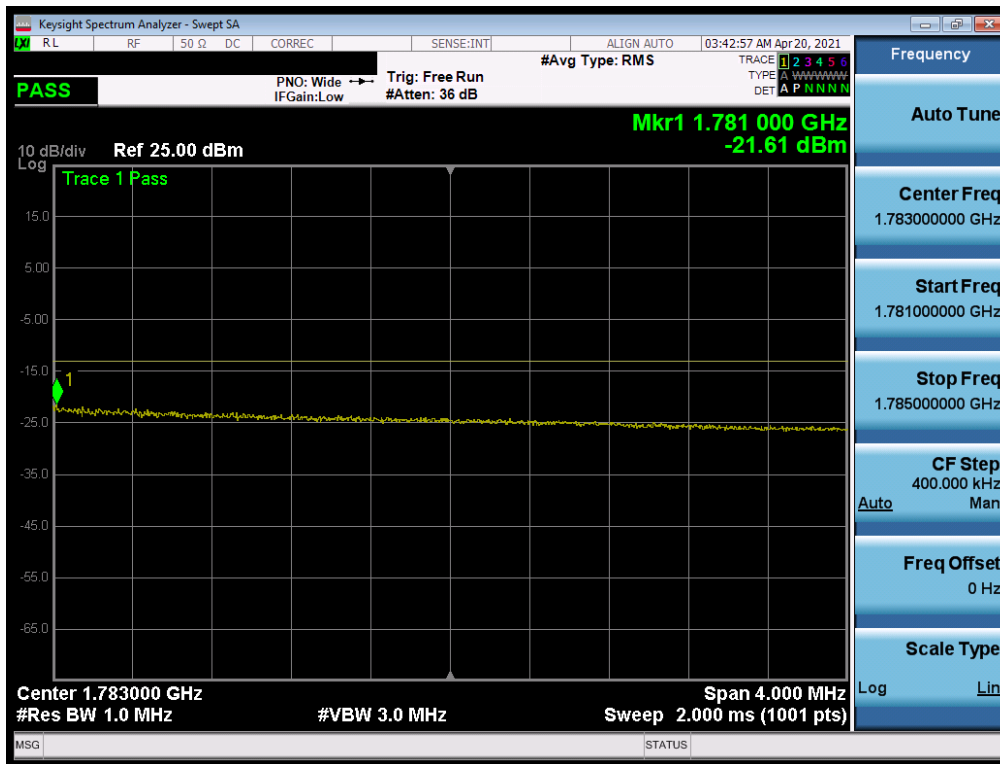


Plot 7-251. Upper Extended Band Edge Plot (NR Band n66 – 30.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 151 of 254

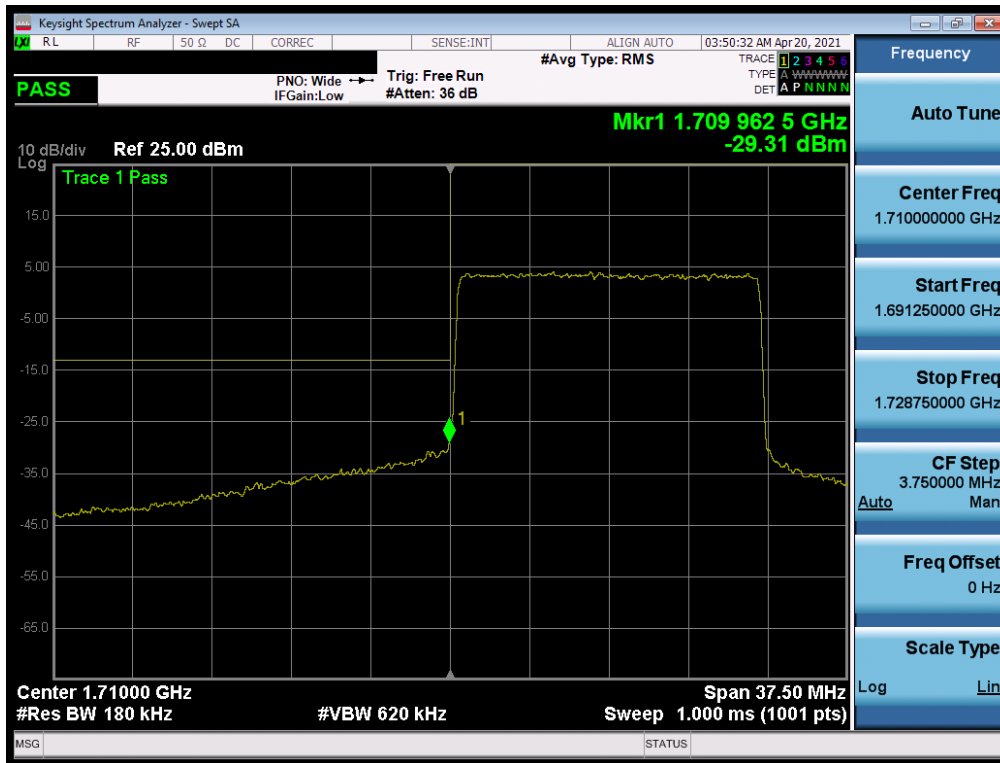


Plot 7-254. Upper Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

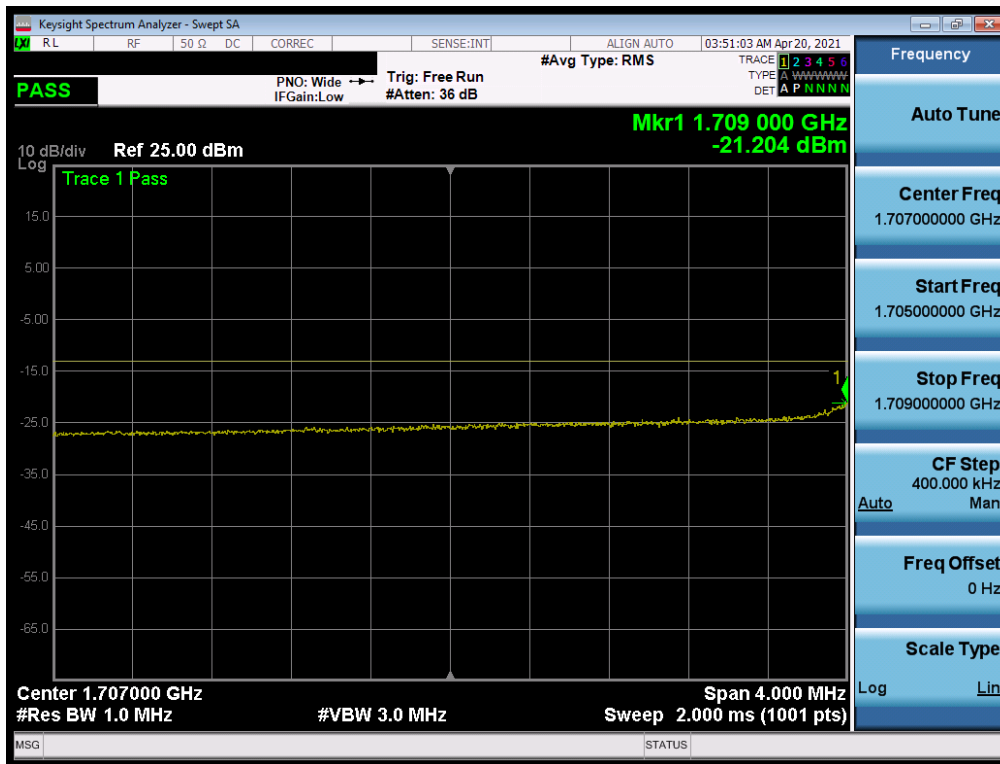


Plot 7-255. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 153 of 254

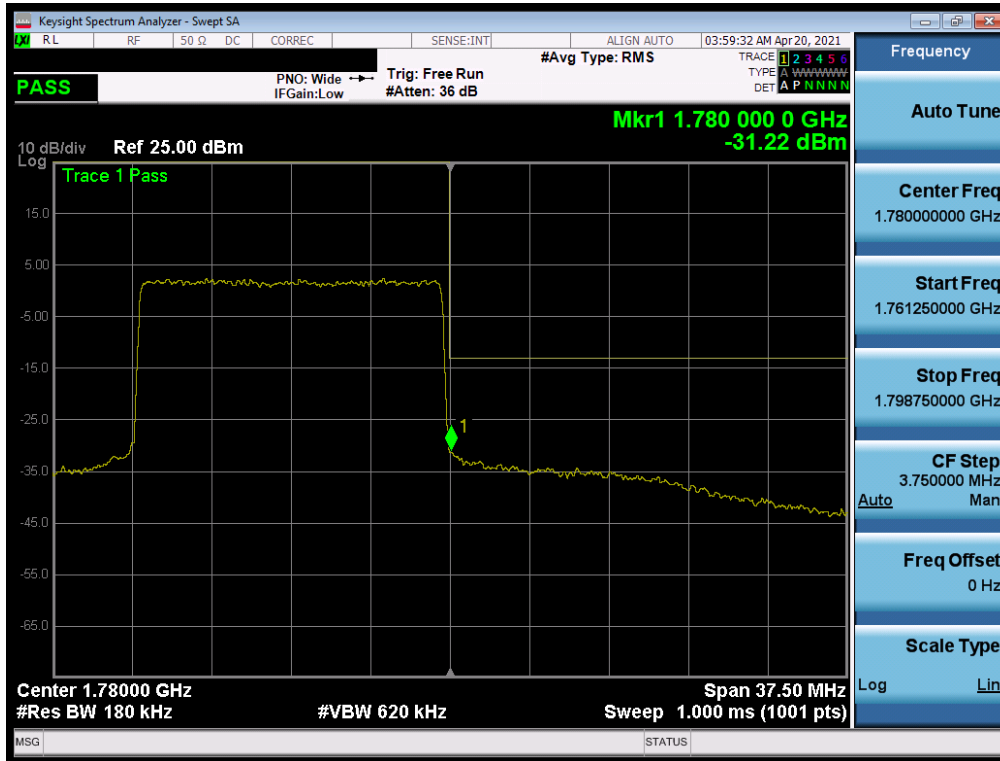


Plot 7-256. Lower Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

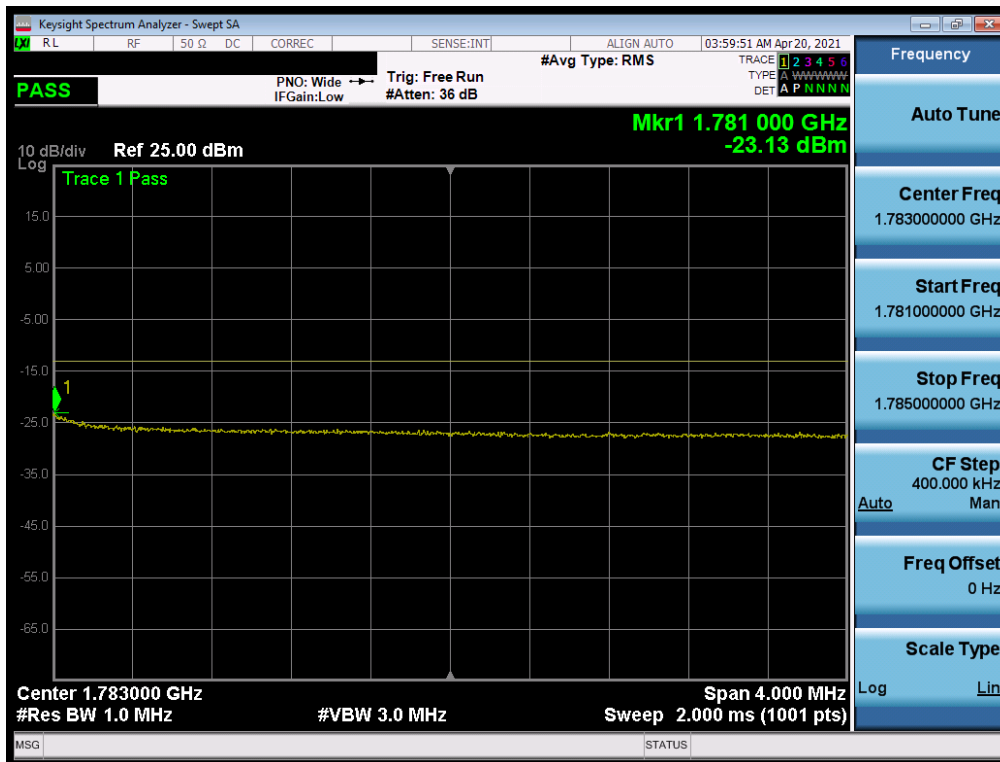


Plot 7-257. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 154 of 254

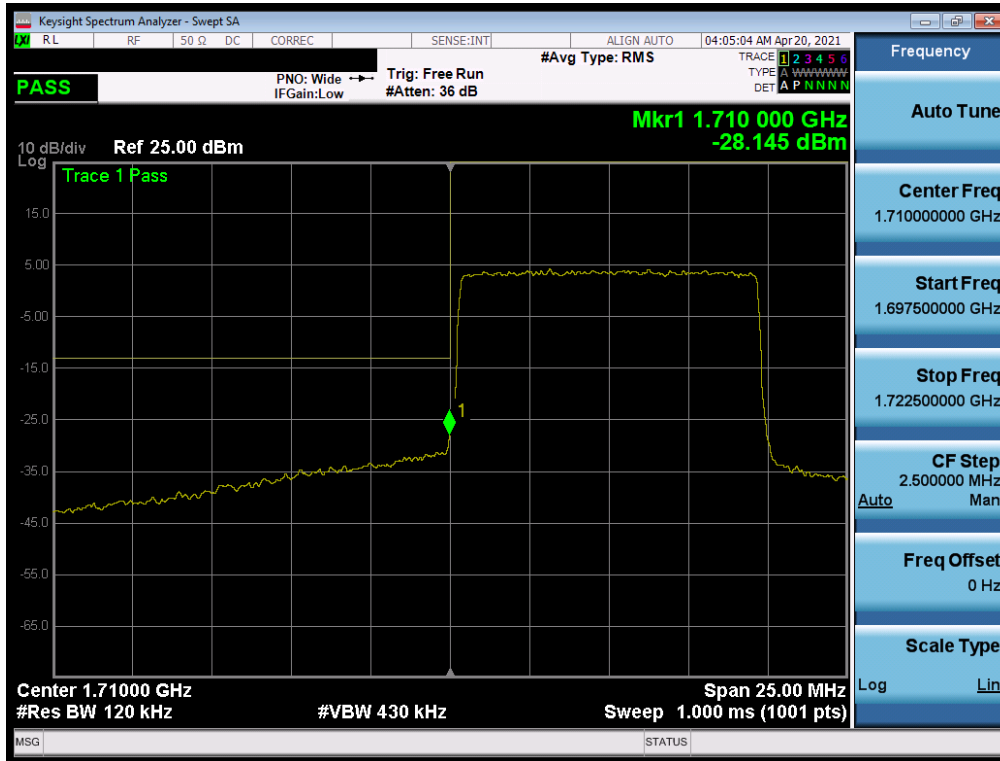


Plot 7-258. Upper Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

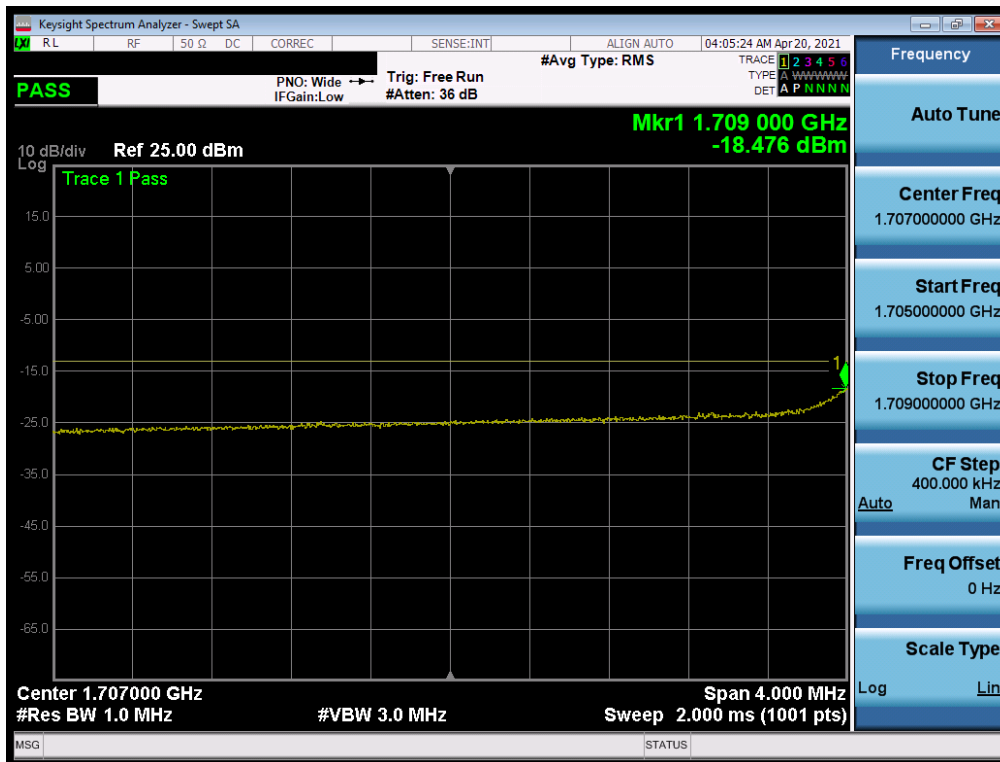


Plot 7-259. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Plot 7-260. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

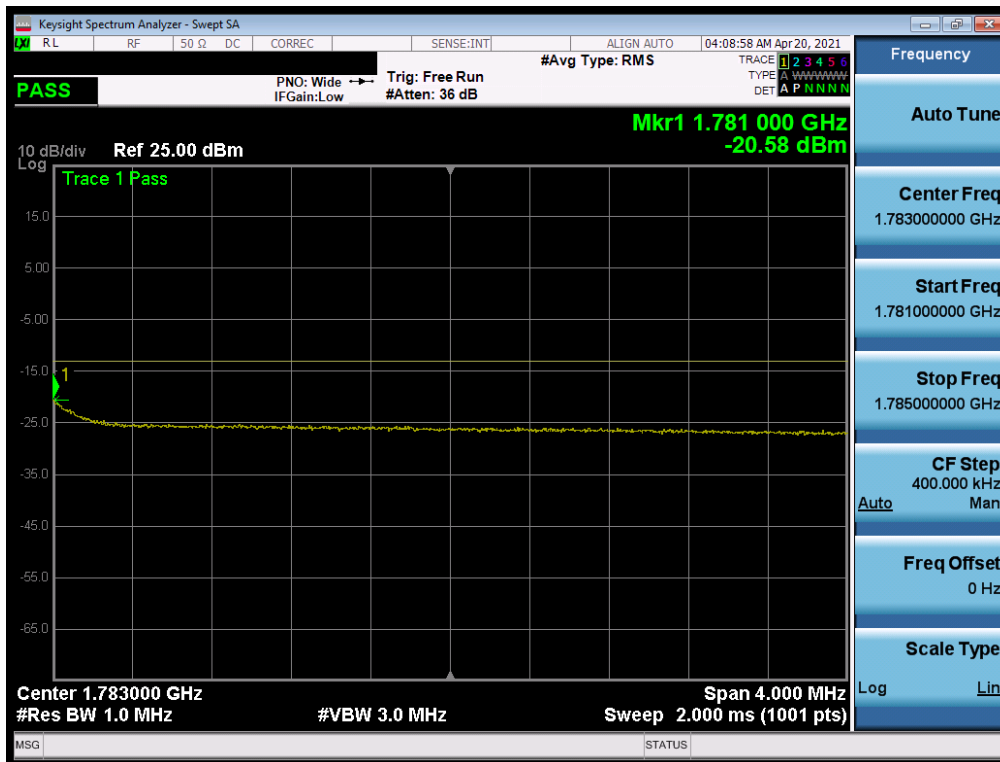


Plot 7-261. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 156 of 254

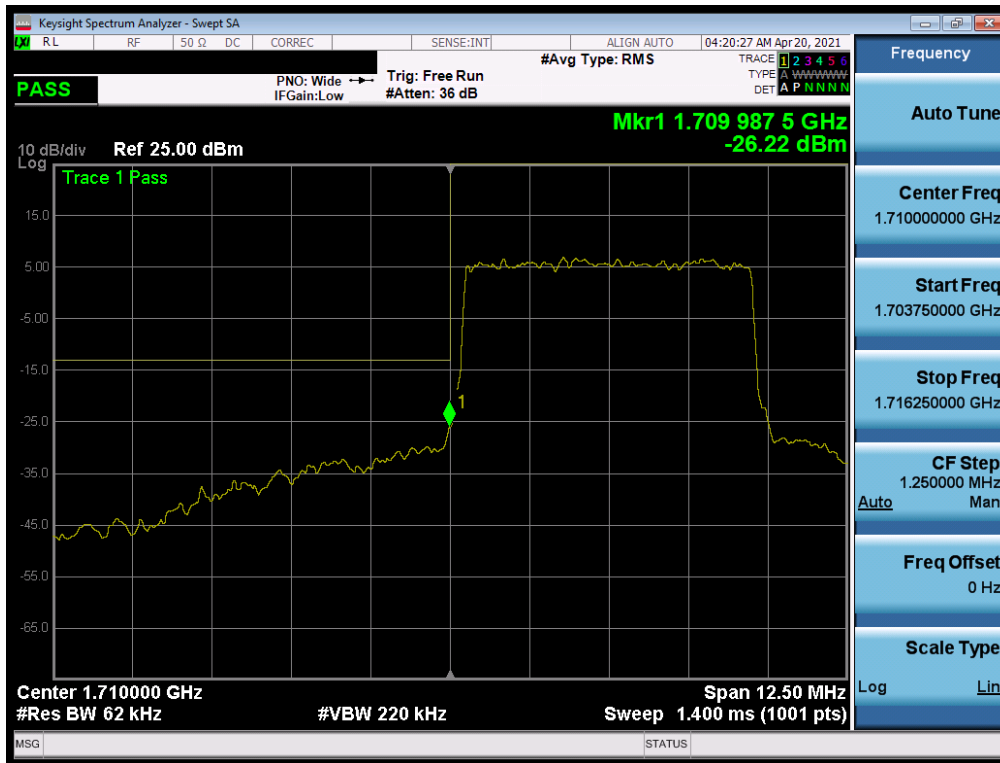


Plot 7-262. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

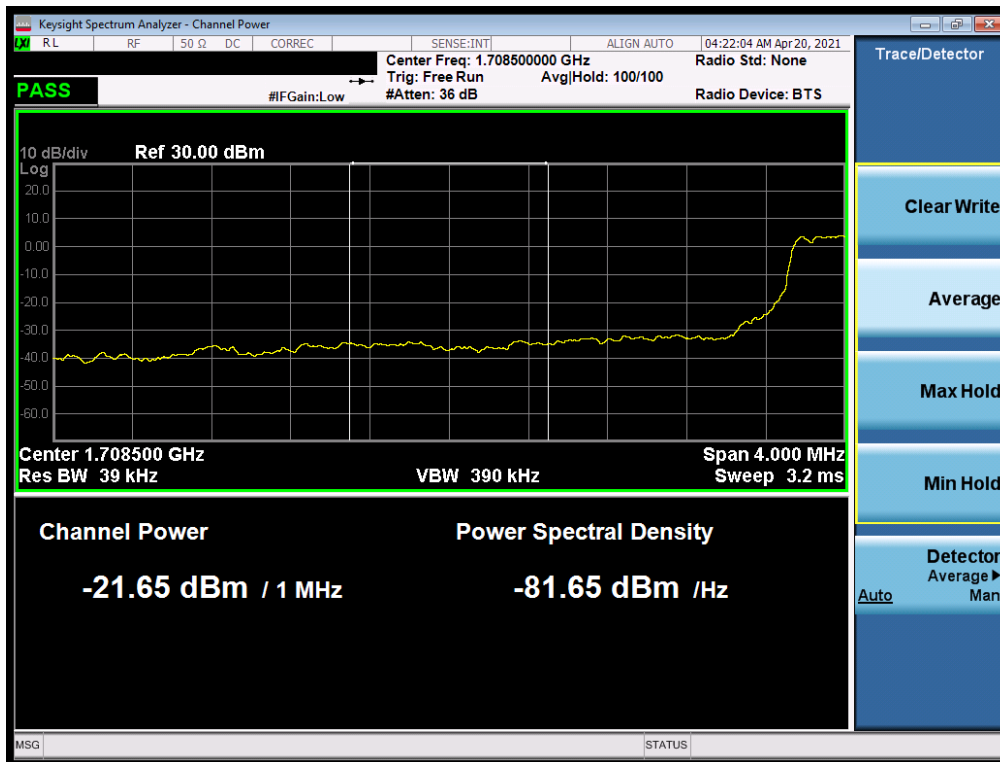


Plot 7-263. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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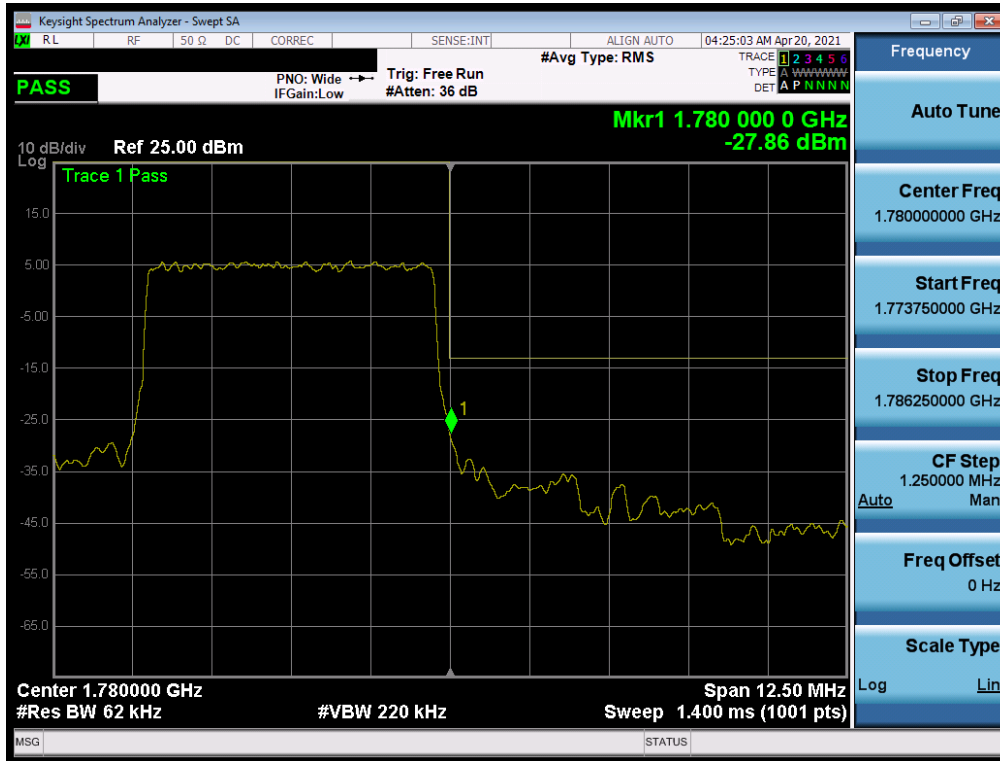


Plot 7-264. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

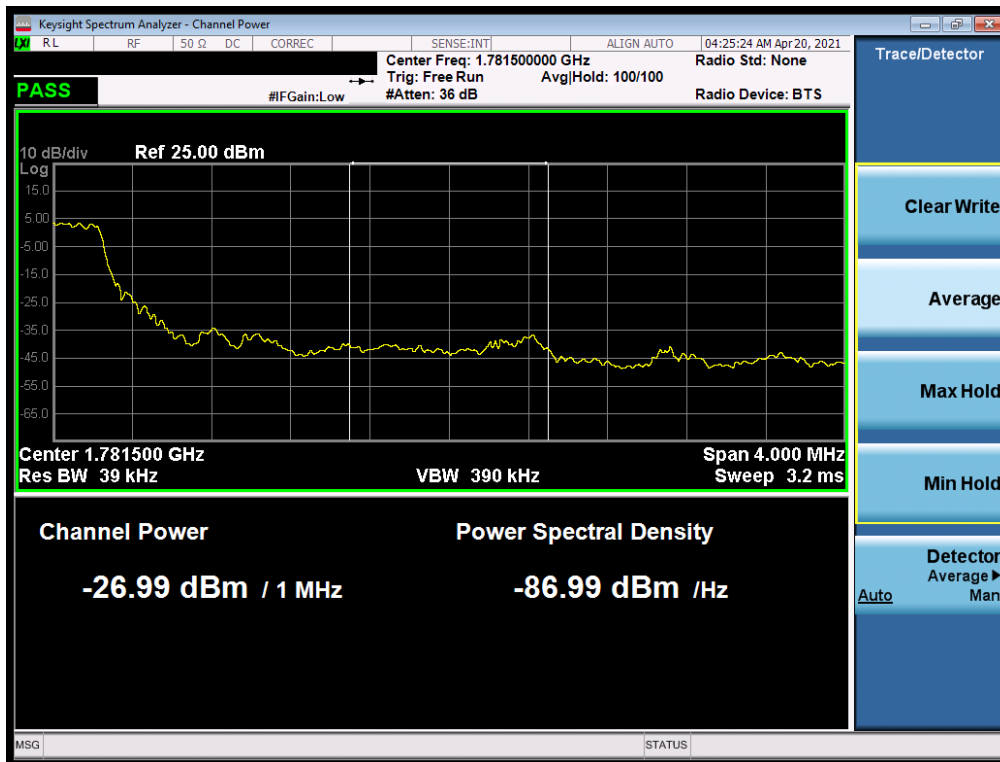


Plot 7-265. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 158 of 254



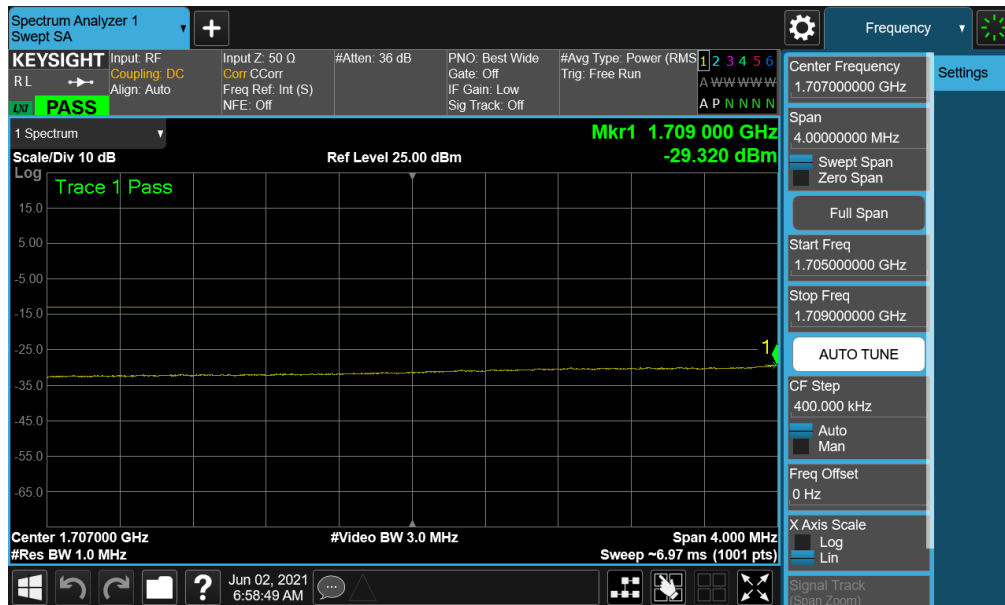
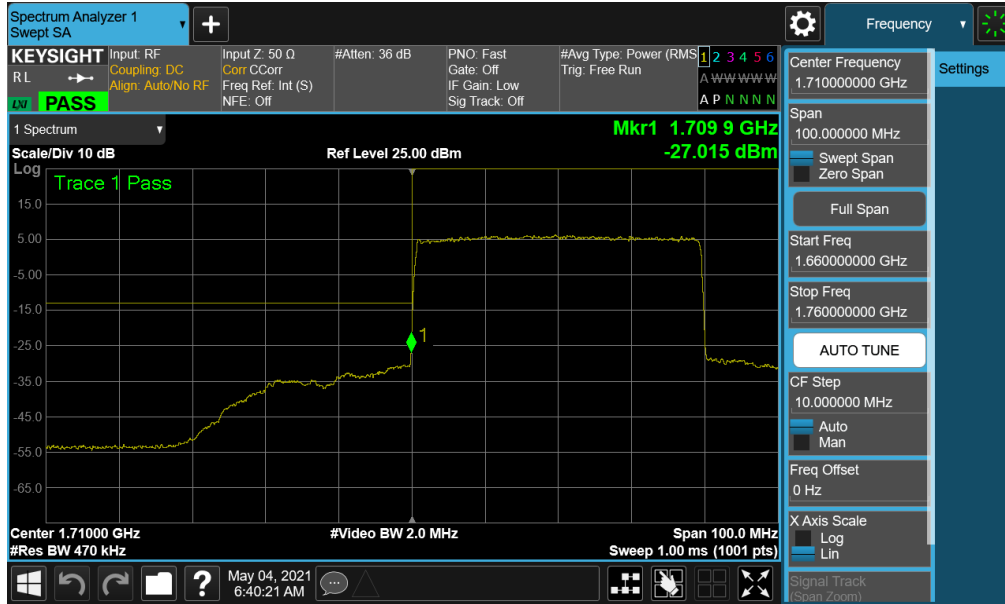
Plot 7-266. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)



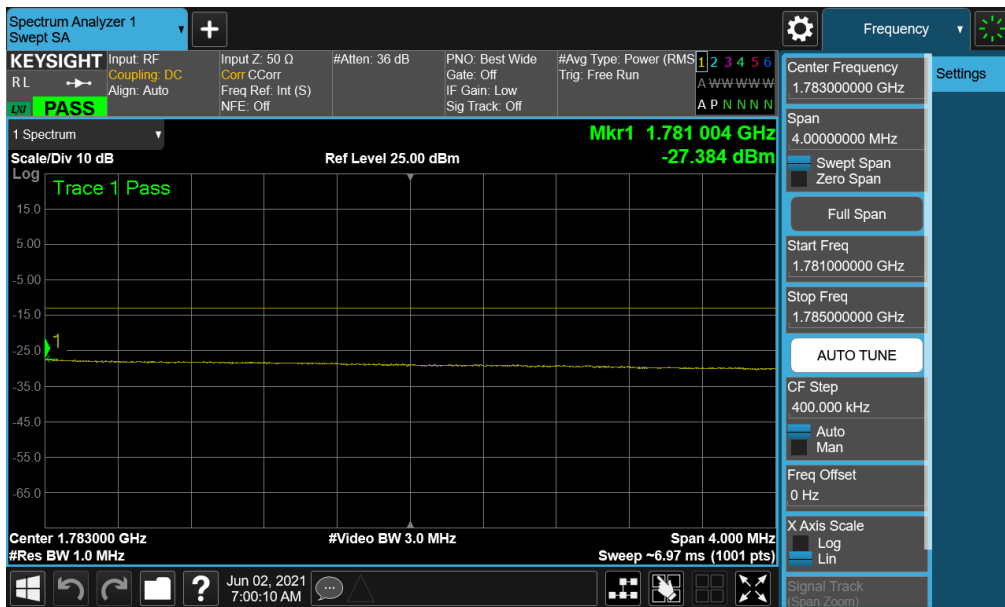
Plot 7-267. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 159 of 254

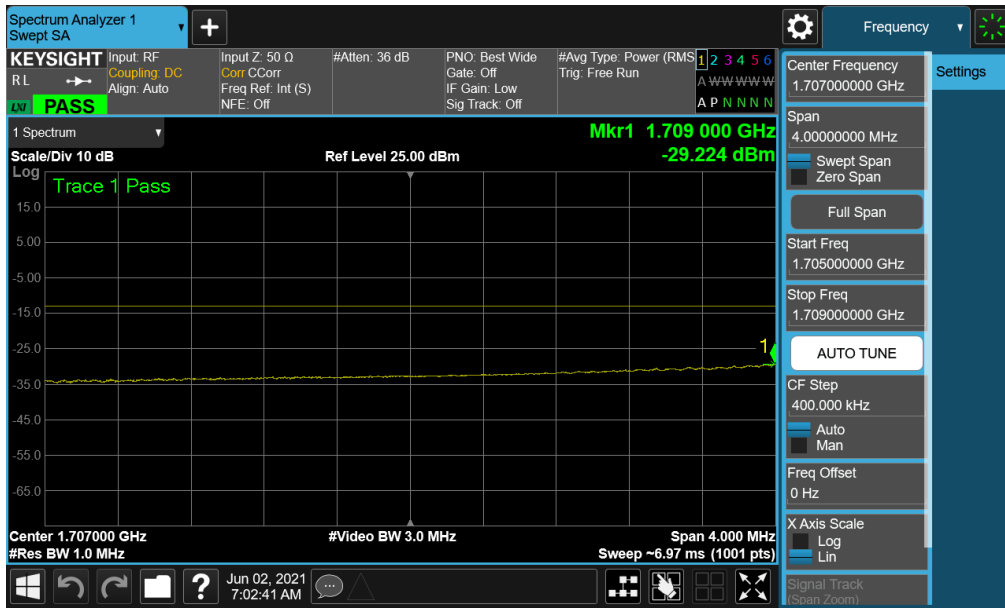
NR Band n66 – Ant I



FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 160 of 254



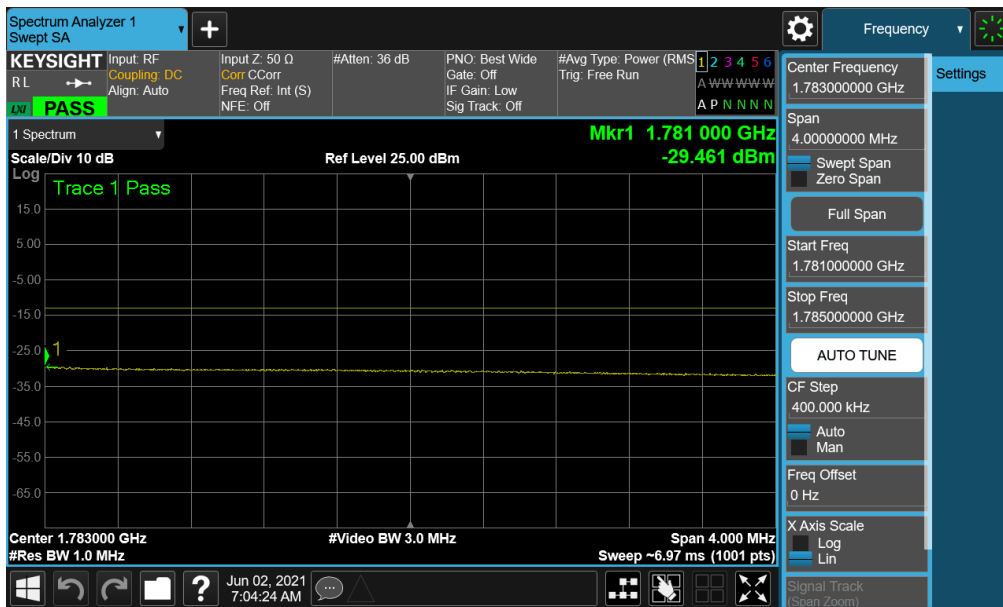
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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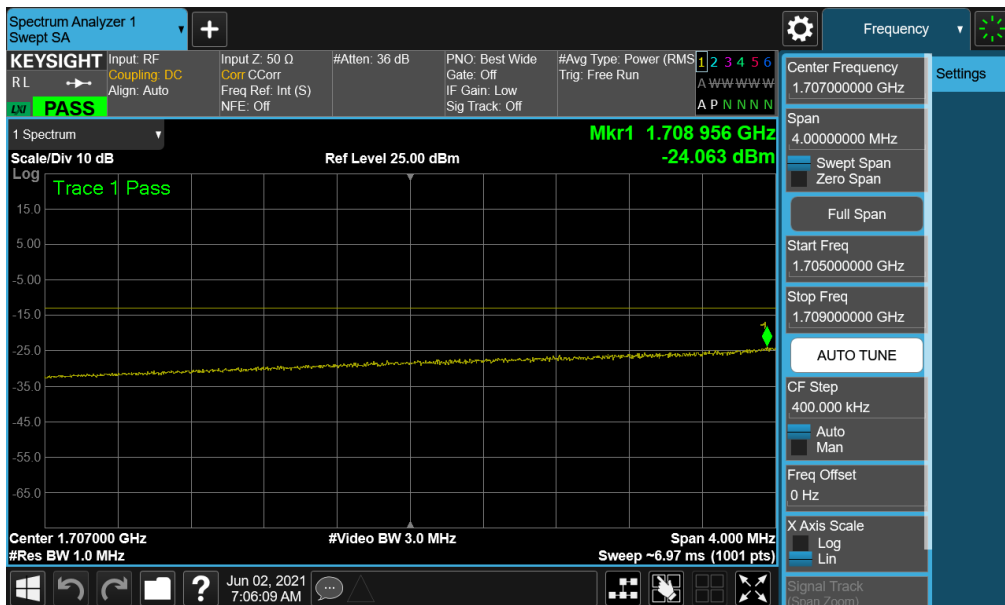
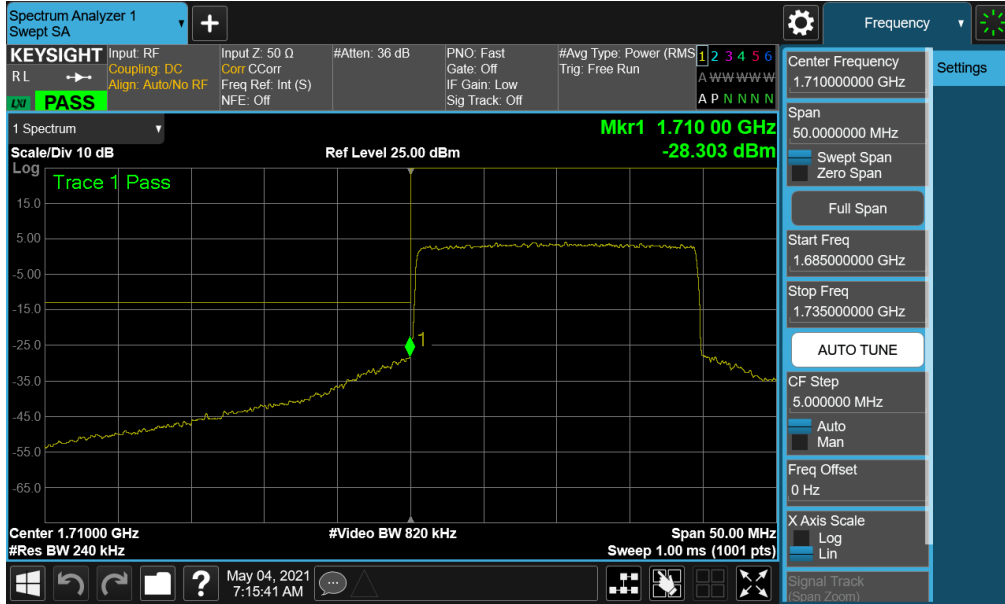


Plot 7-274. Upper Band Edge Plot (NR Band n66 – 30.0MHz - Full RB)

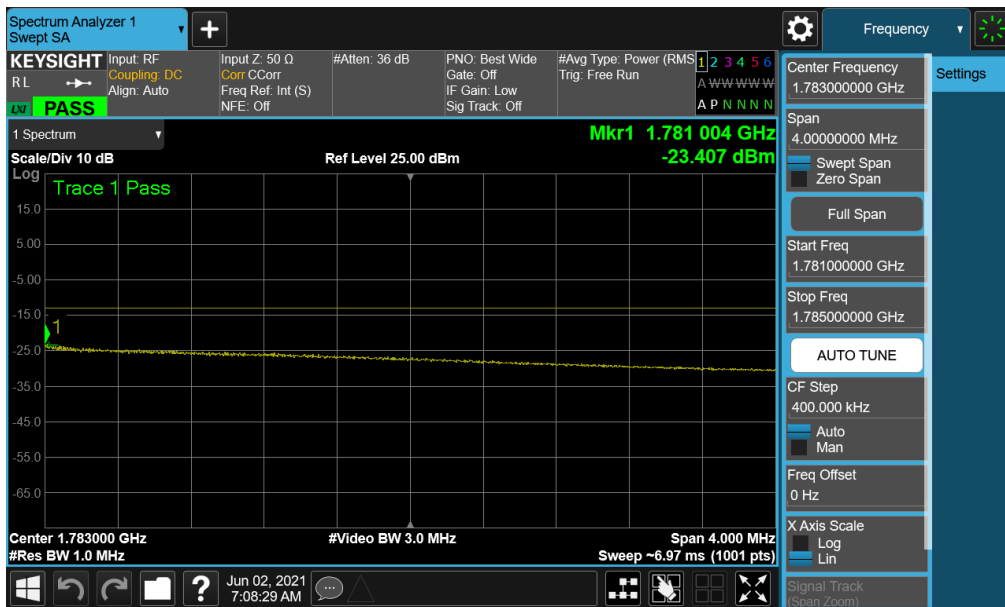


Plot 7-275. Upper Extended Band Edge Plot (NR Band n66 – 30.0MHz - Full RB)

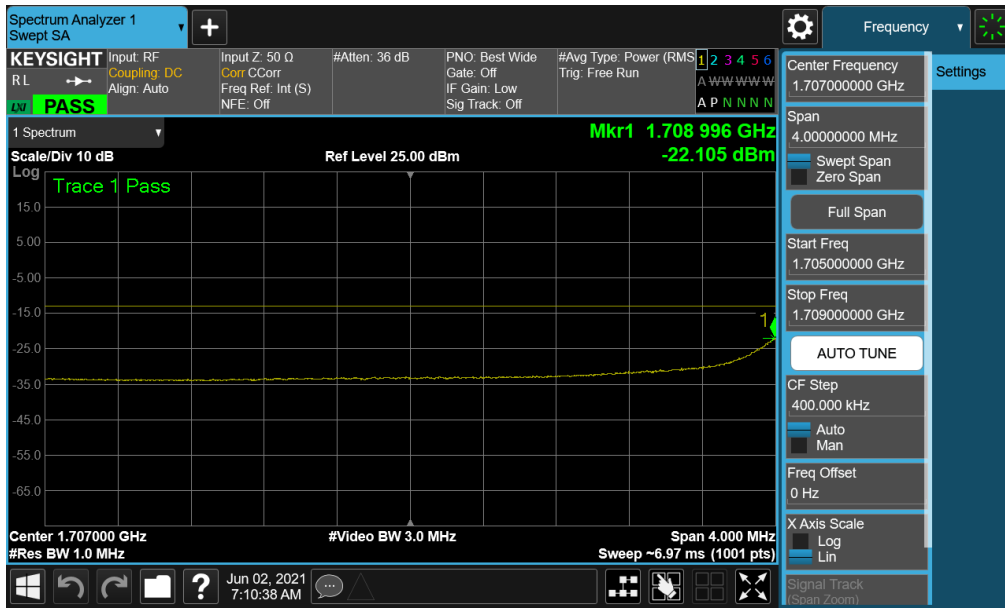
FCC ID: A3LSMF711U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 163 of 254



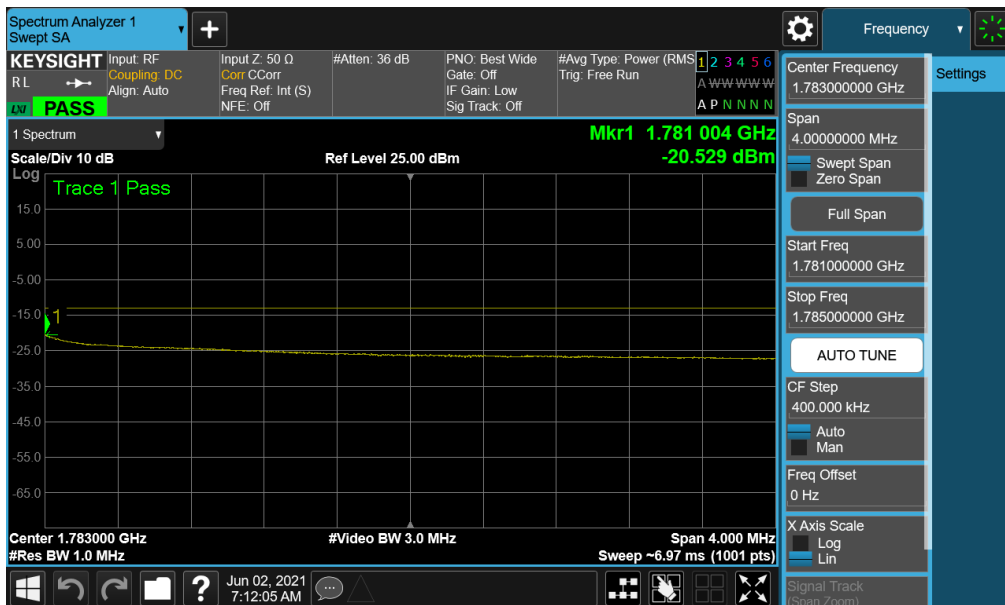
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 164 of 254



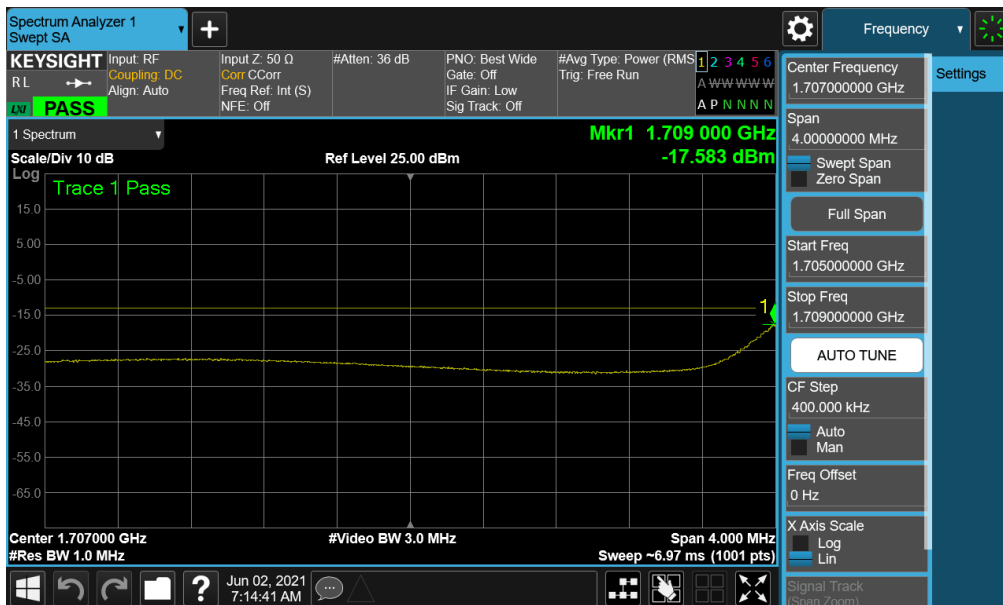
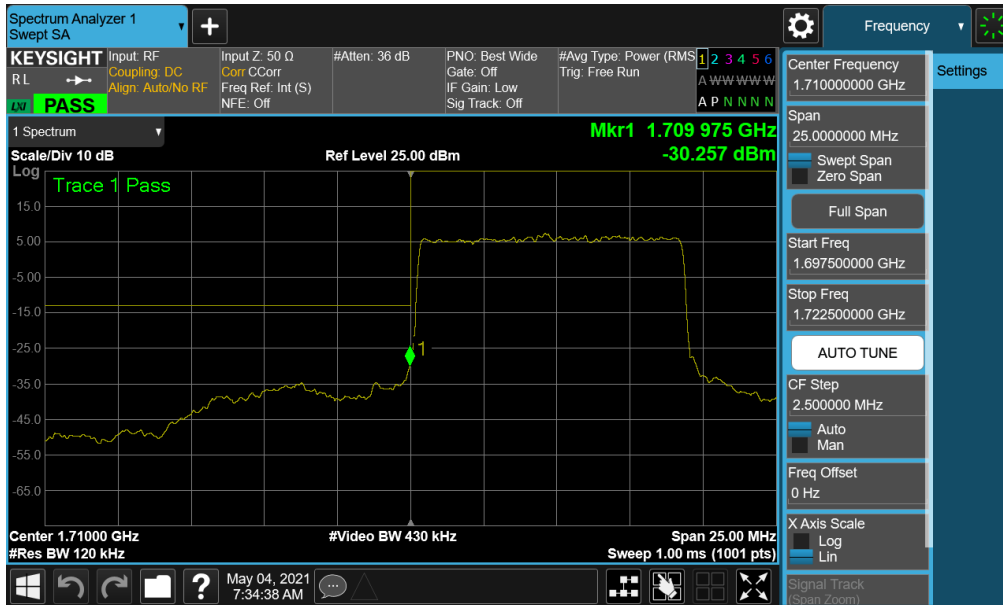
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 165 of 254



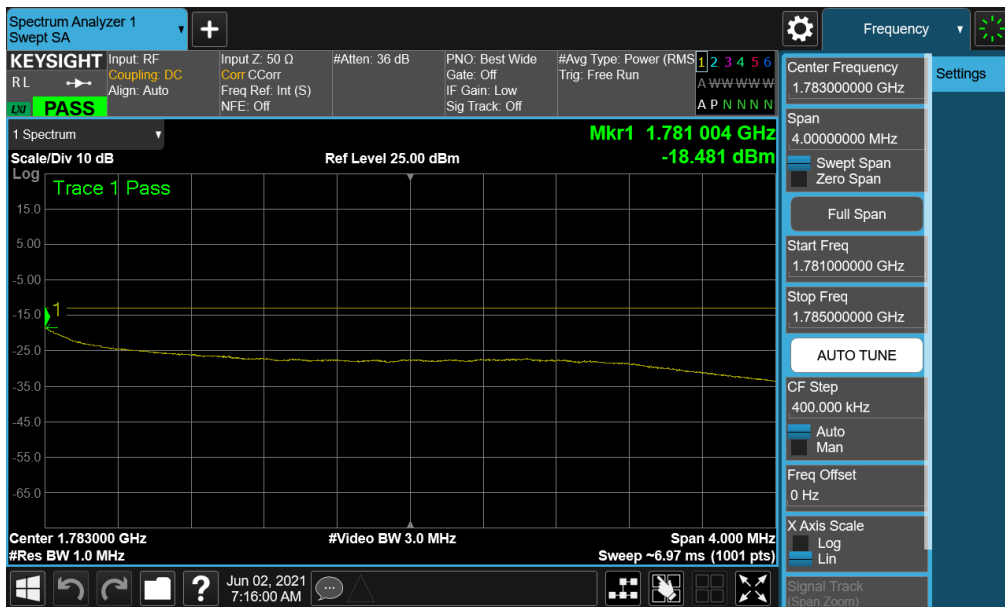
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 166 of 254



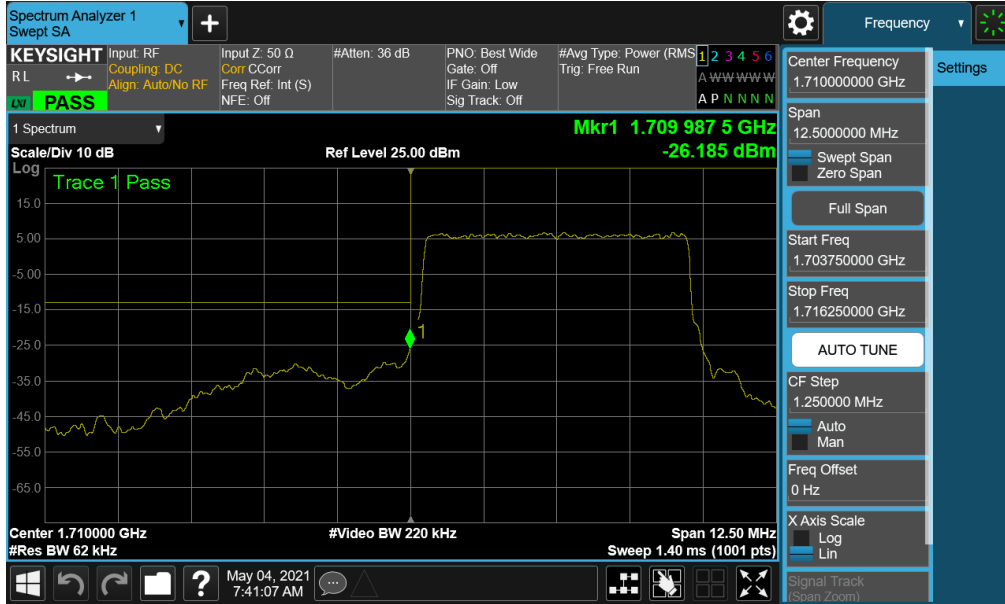
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 167 of 254



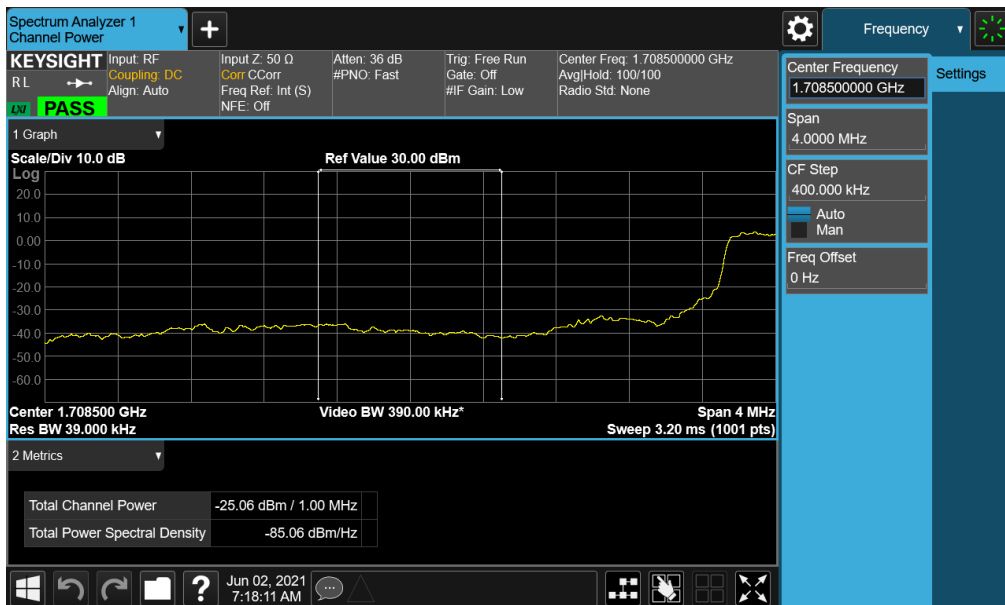
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 168 of 254



FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 169 of 254



Plot 7-288. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)



Plot 7-289. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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7.6 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. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

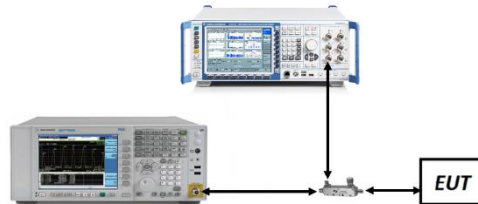


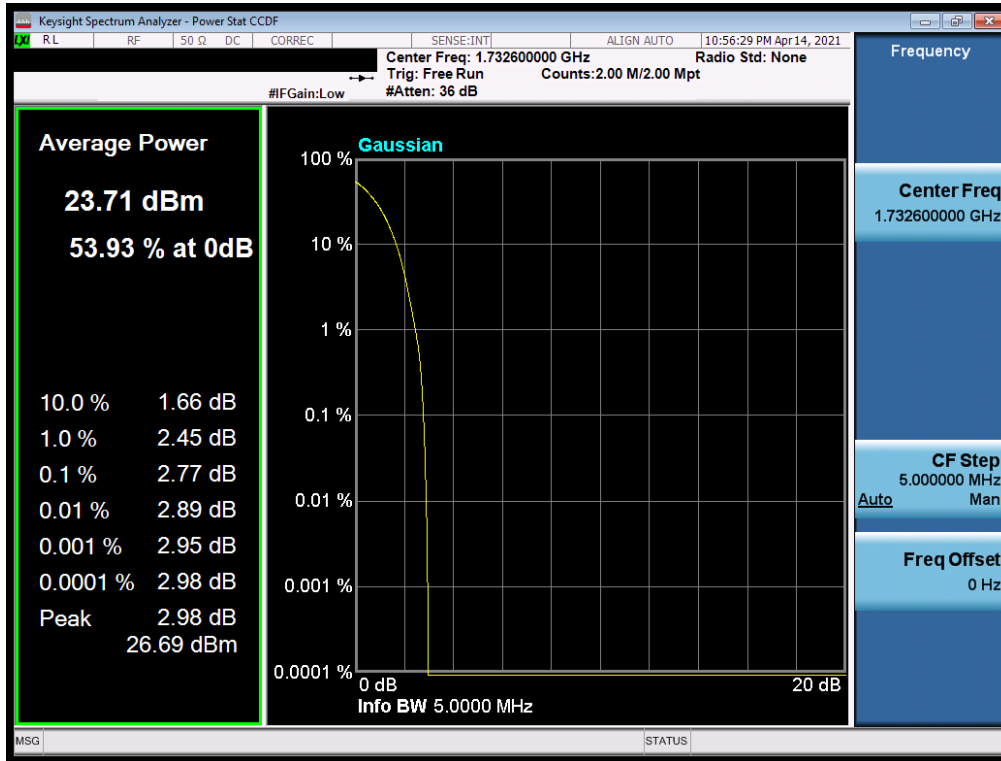
Figure 7-5. Test Instrument & Measurement Setup

Test Notes

None.

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset	Page 172 of 254	

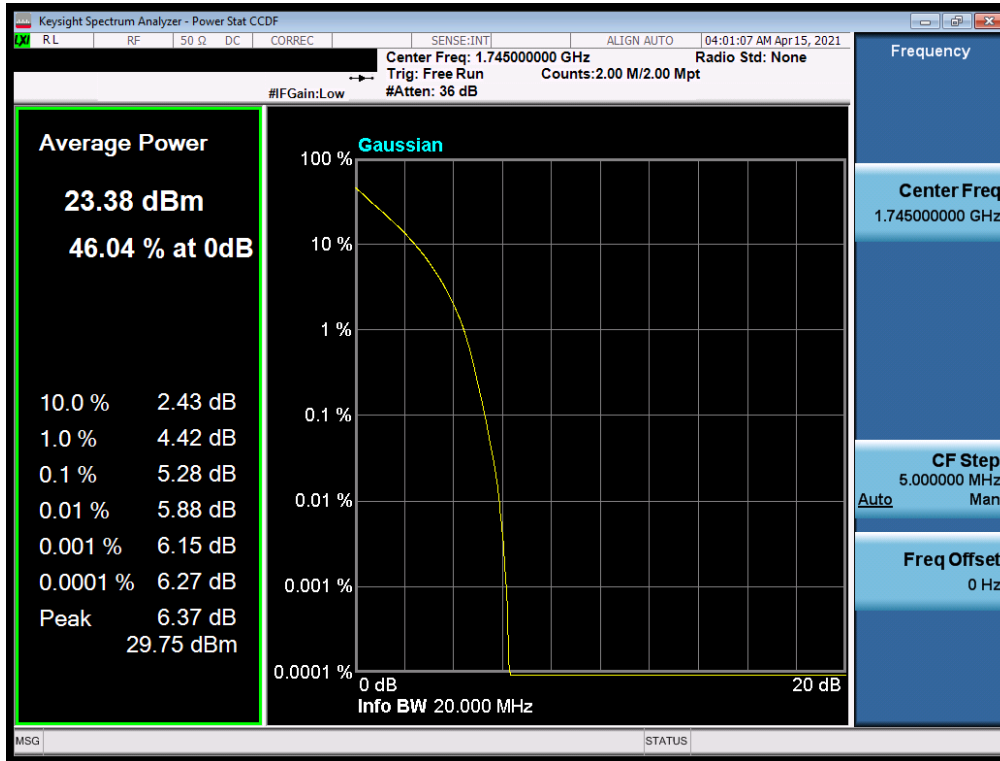
WCDMA AWS



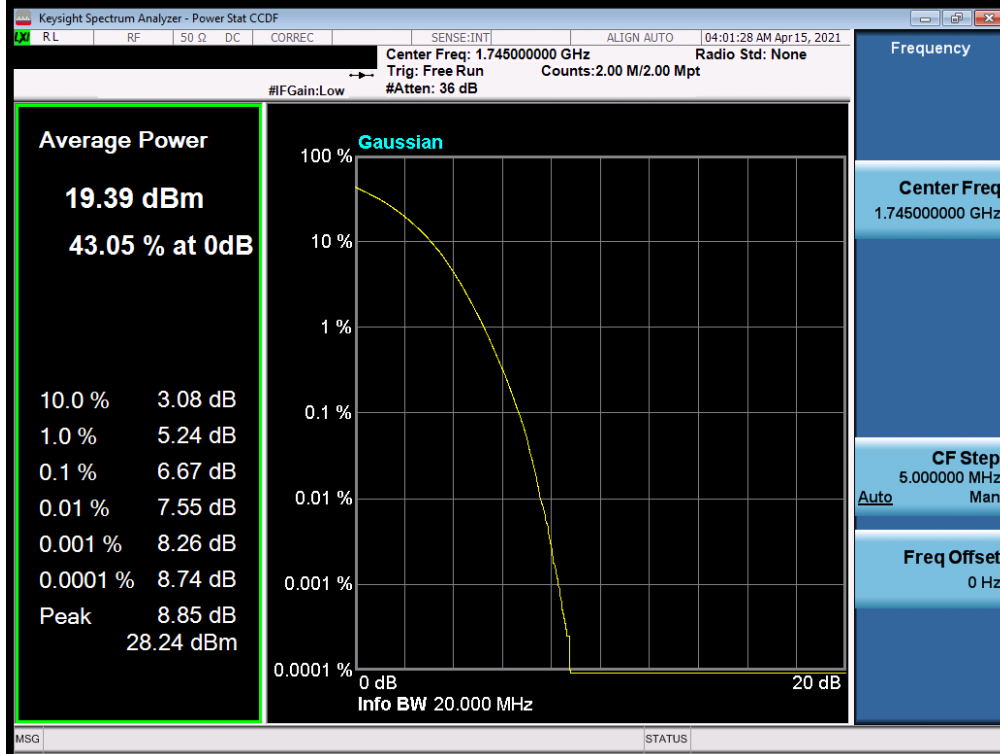
Plot 7-292. PAR Plot (WCDMA, Ch. 1413)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 173 of 254

LTE Band 66/4

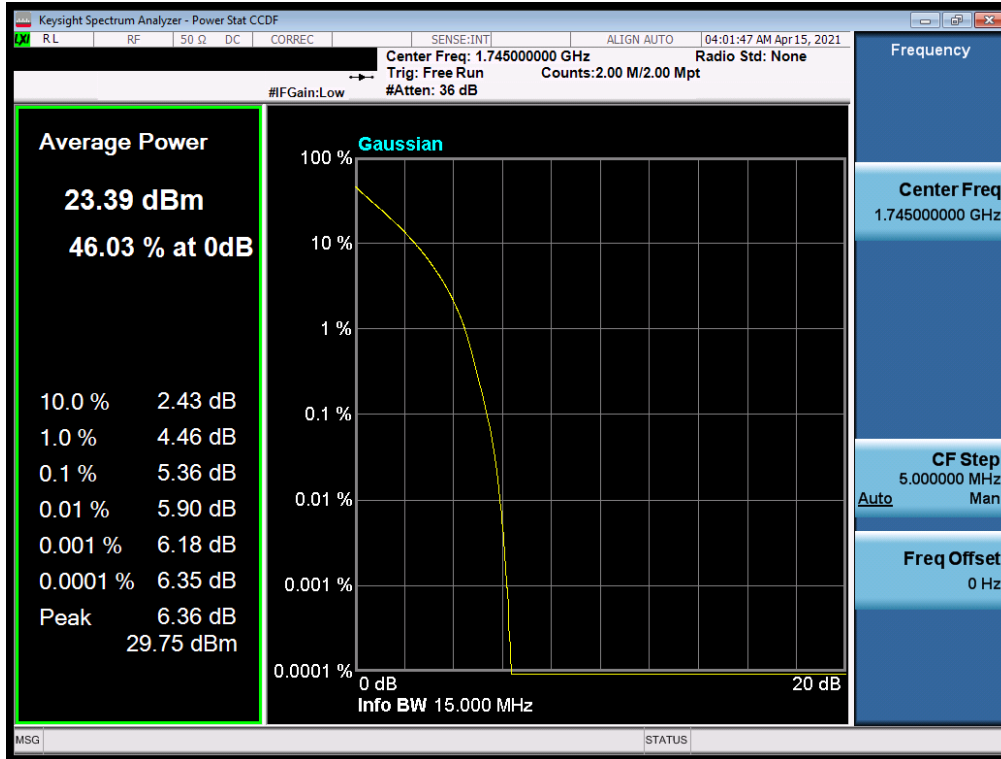


Plot 7-293. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)

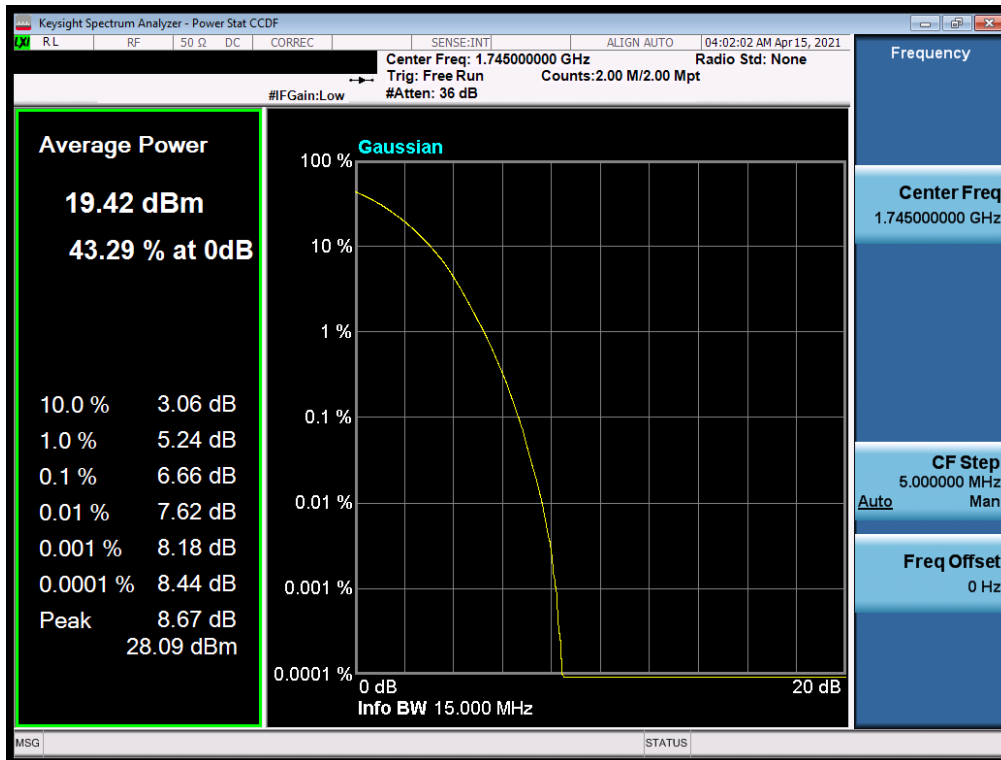


Plot 7-294. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-04.A3L	Test Dates: 04/12/2021 – 06/04/2021	EUT Type: Portable Handset		Page 174 of 254

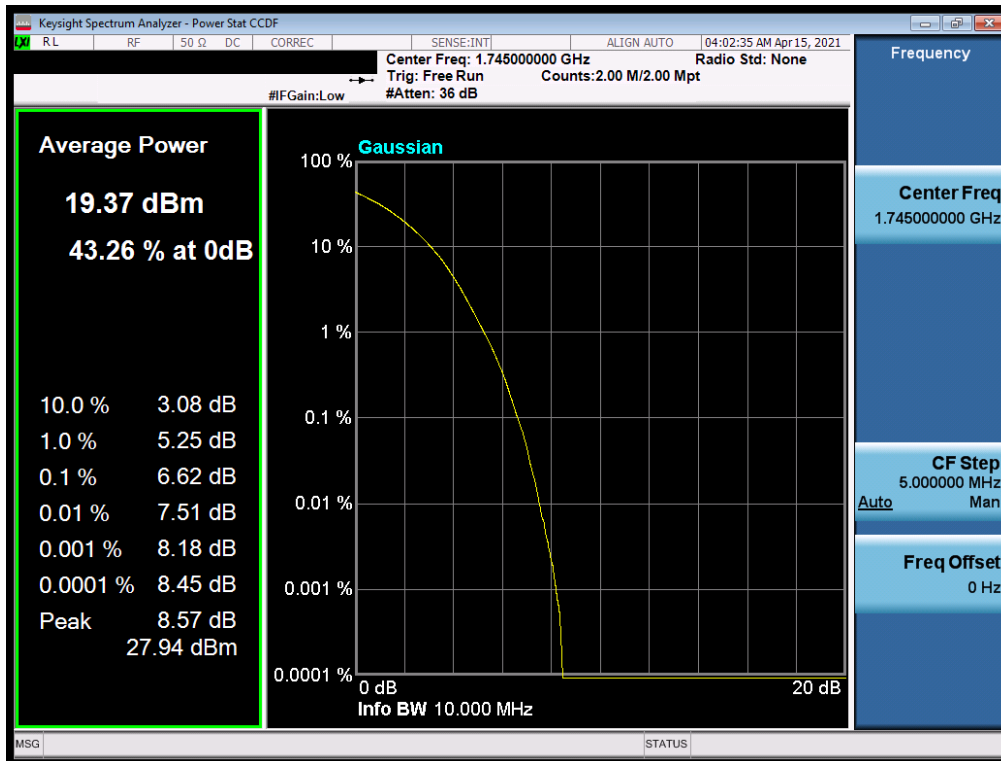
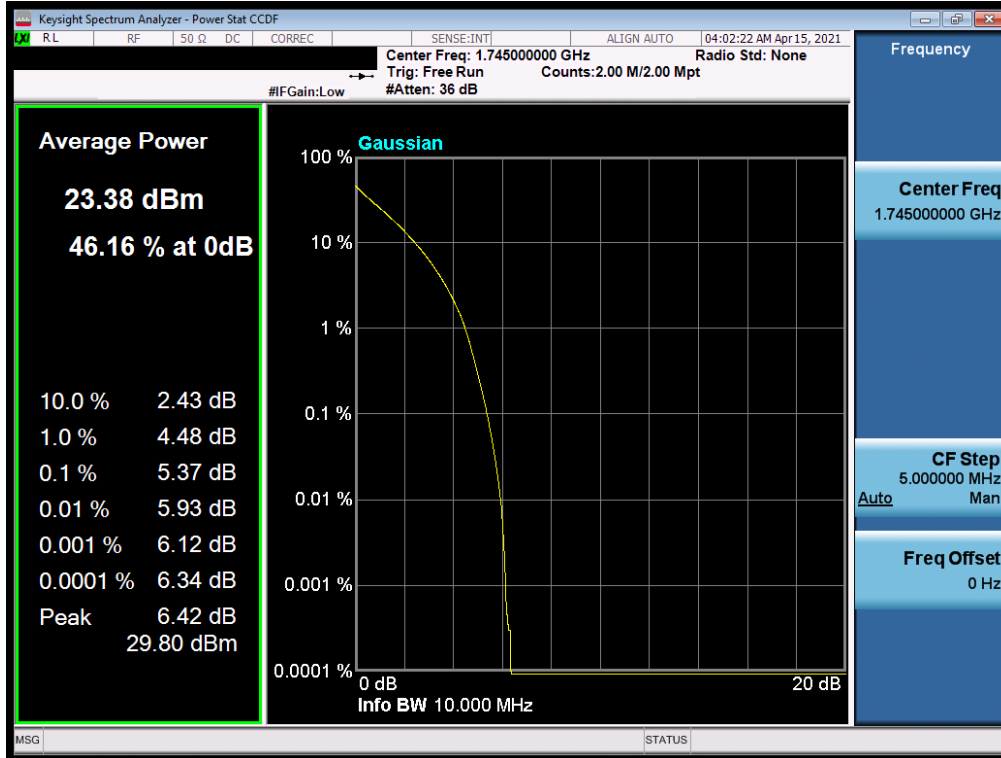


Plot 7-295. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)



Plot 7-296. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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