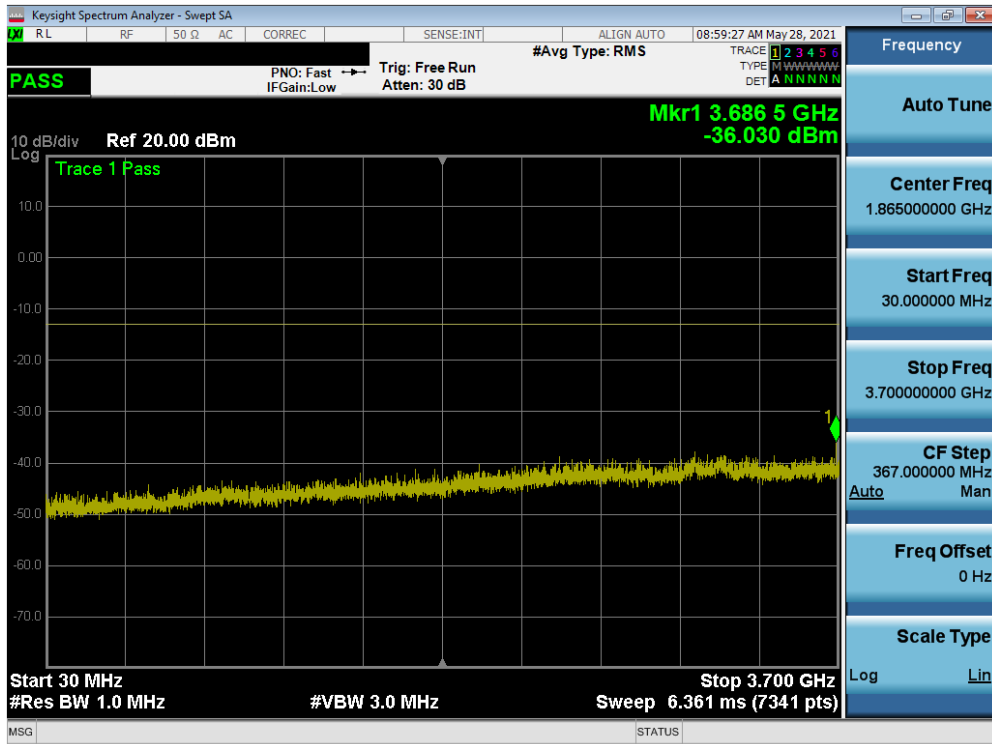


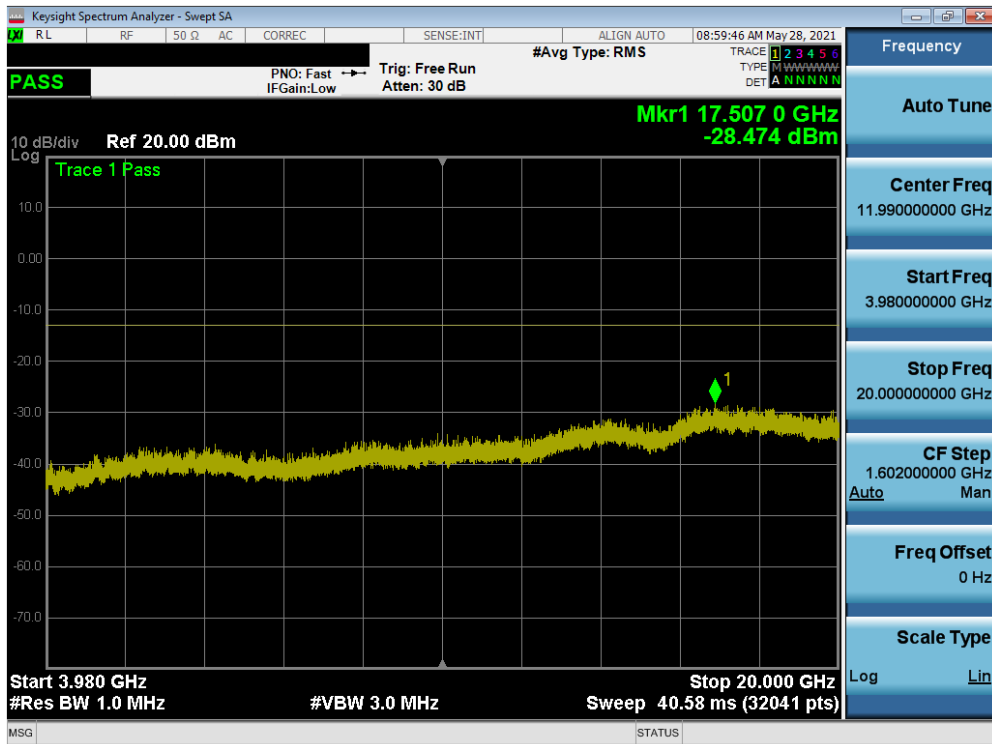
Plot 7-66 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 55 of 161

NR Band n77 (PC2) – C-Band – SRS-2

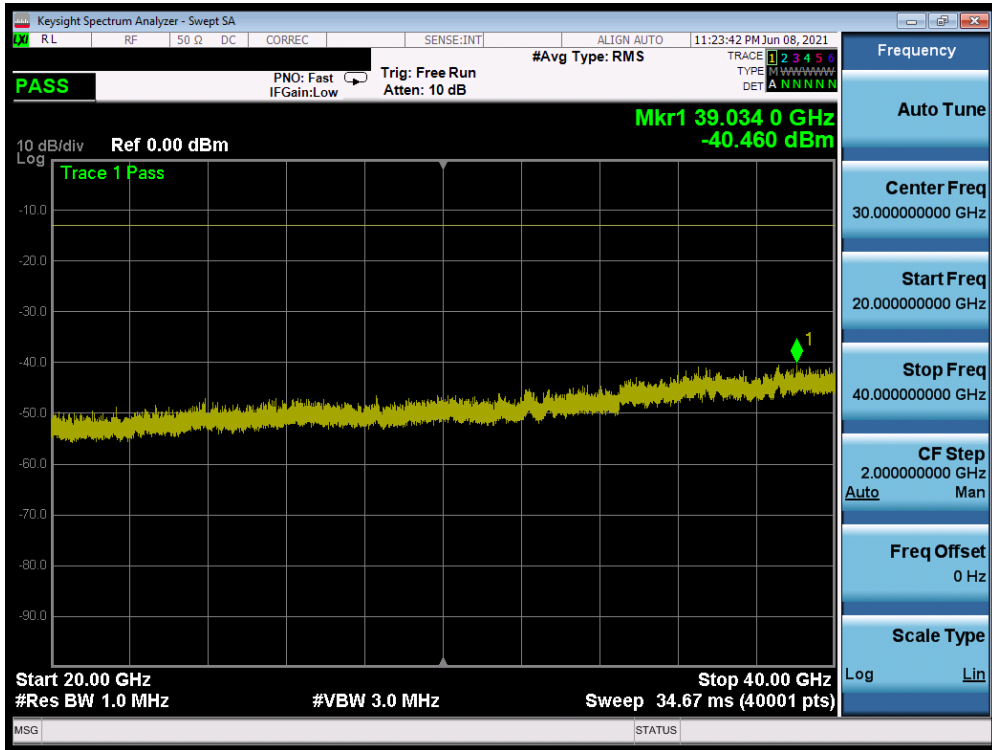


Plot 7-67. Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

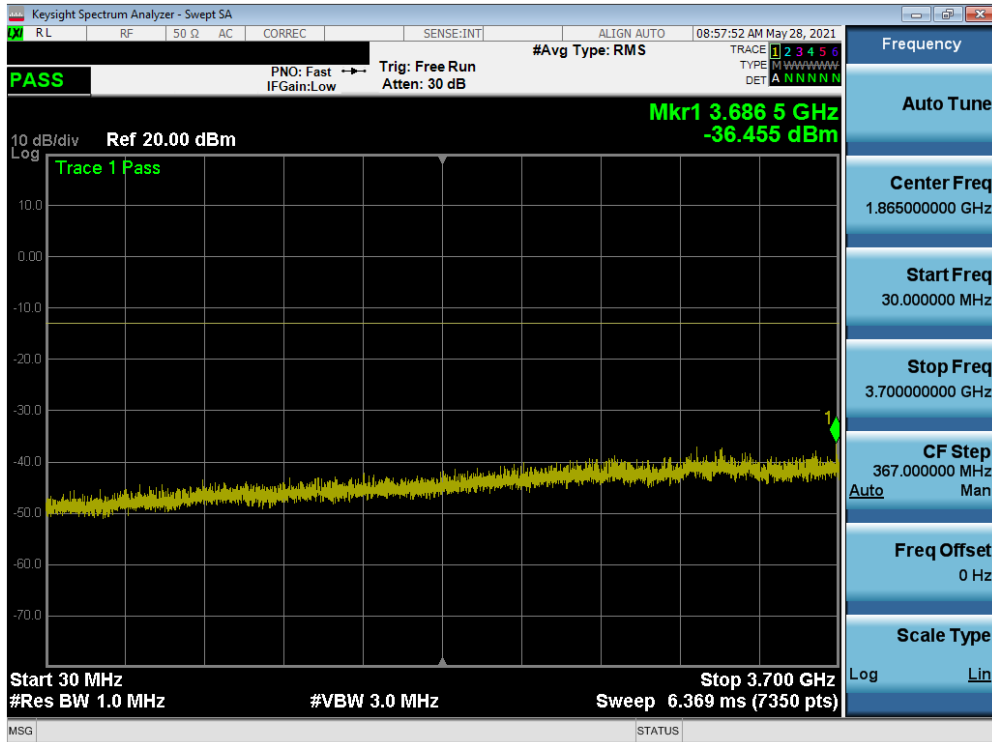


Plot 7-68 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 56 of 161

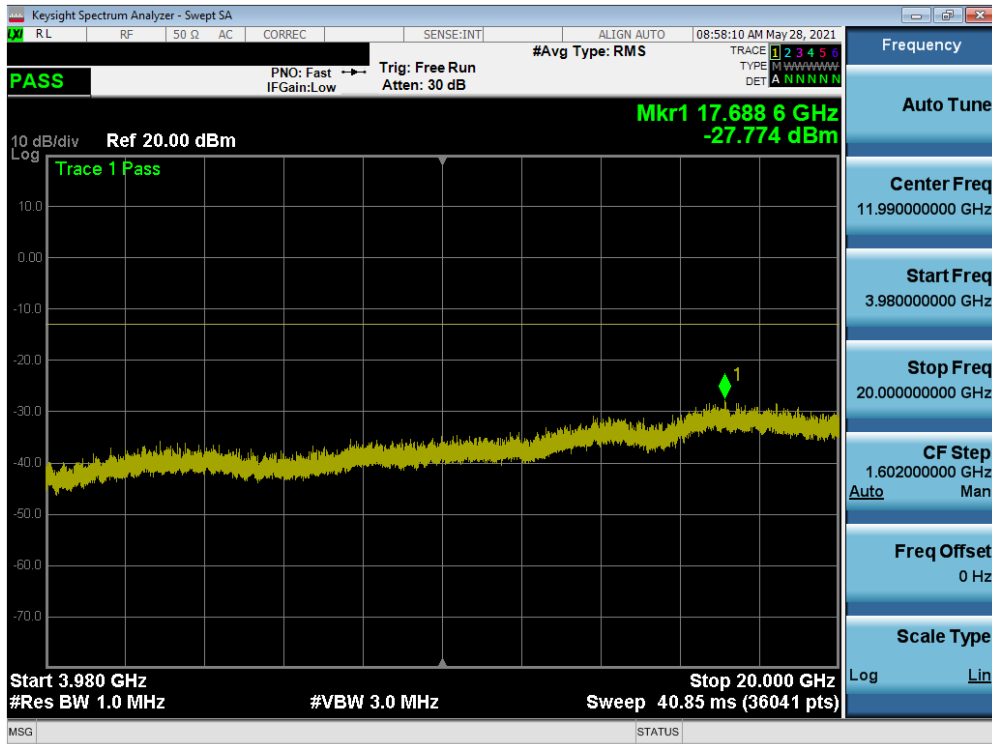


Plot 7-69 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

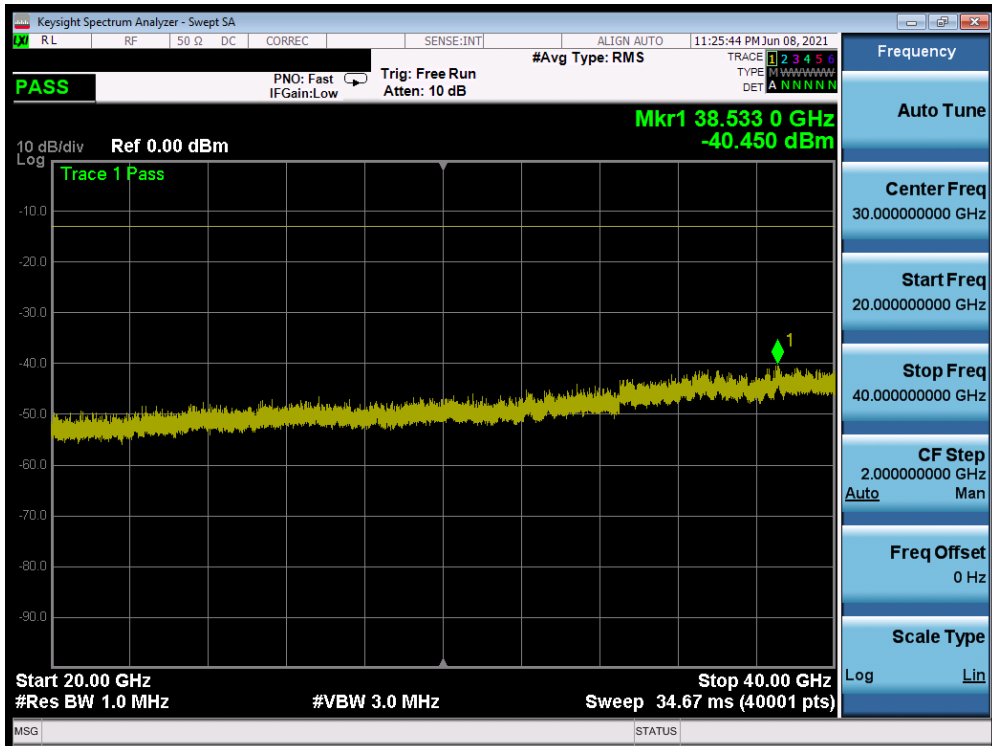


Plot 7-70 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 57 of 161

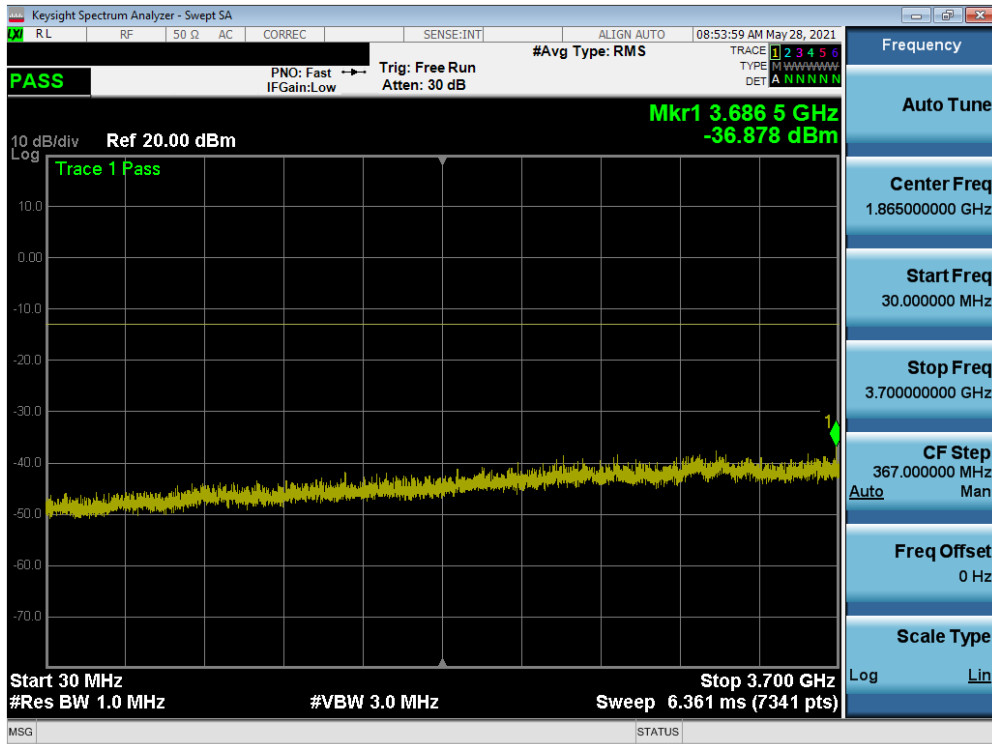


Plot 7-71 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

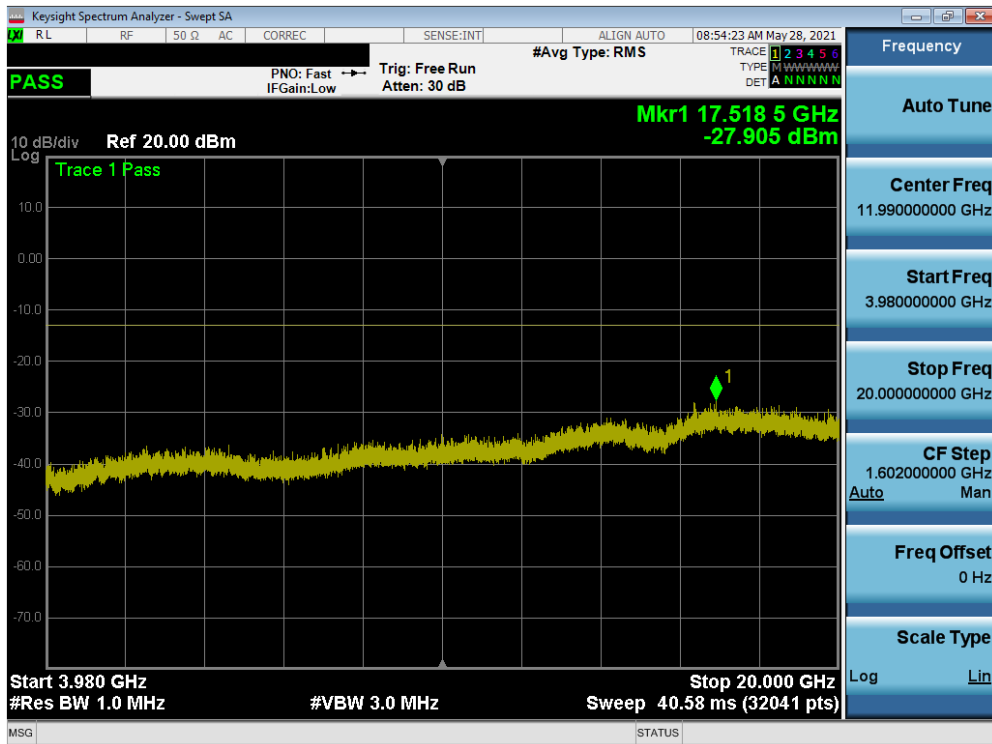


Plot 7-72 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 58 of 161

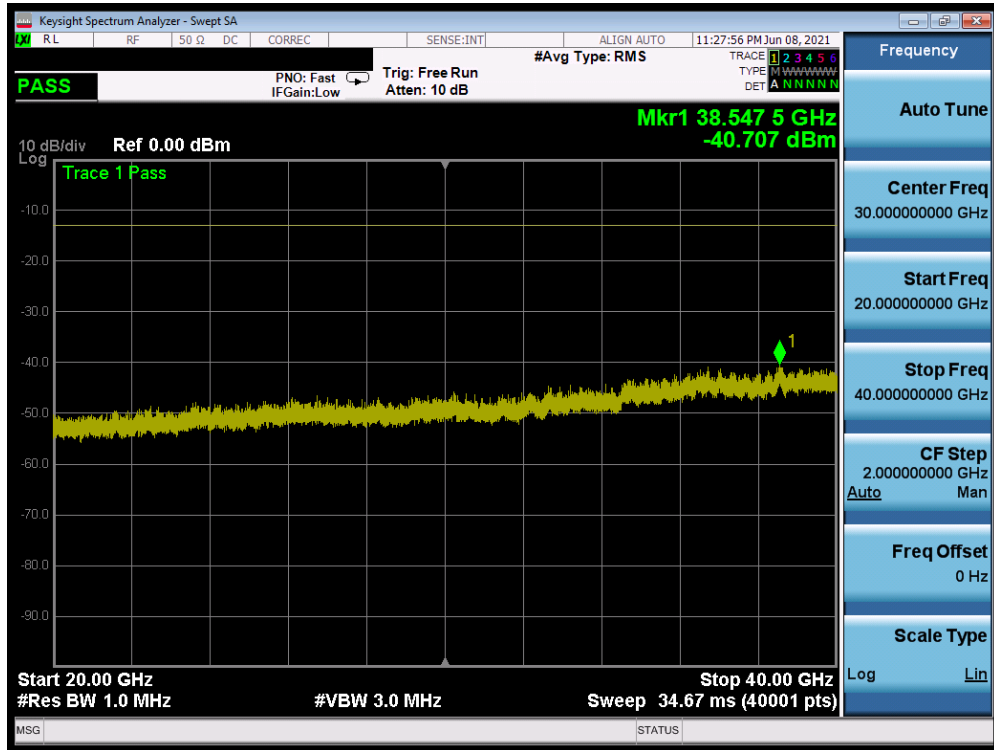


Plot 7-73 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)



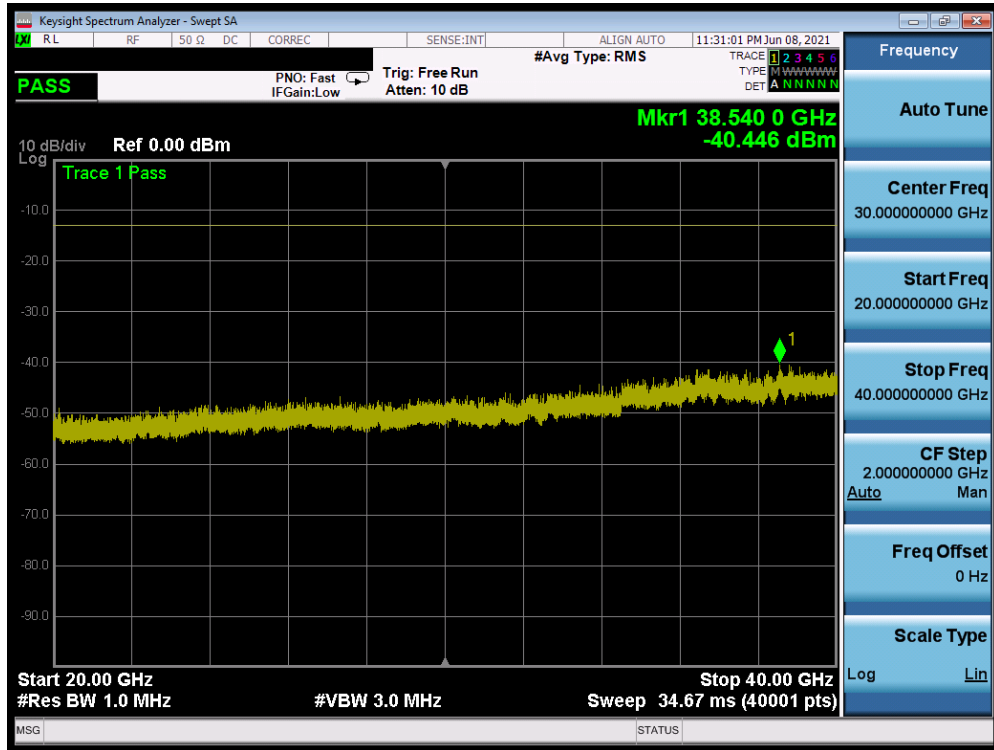
Plot 7-74 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 59 of 161



Plot 7-75 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)

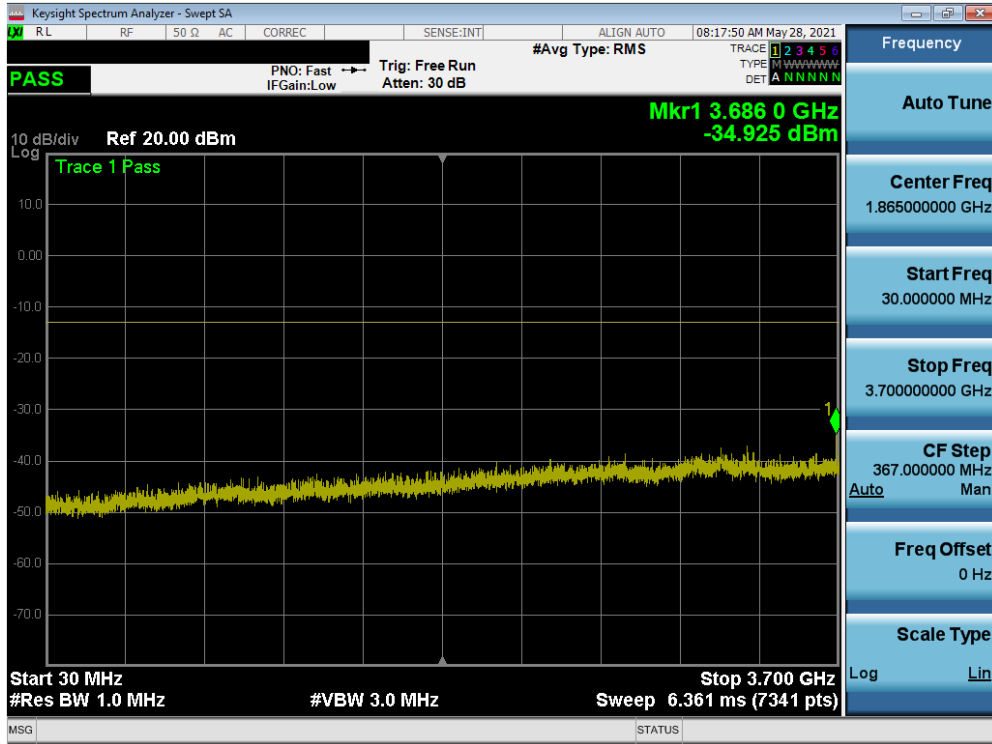
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 60 of 161



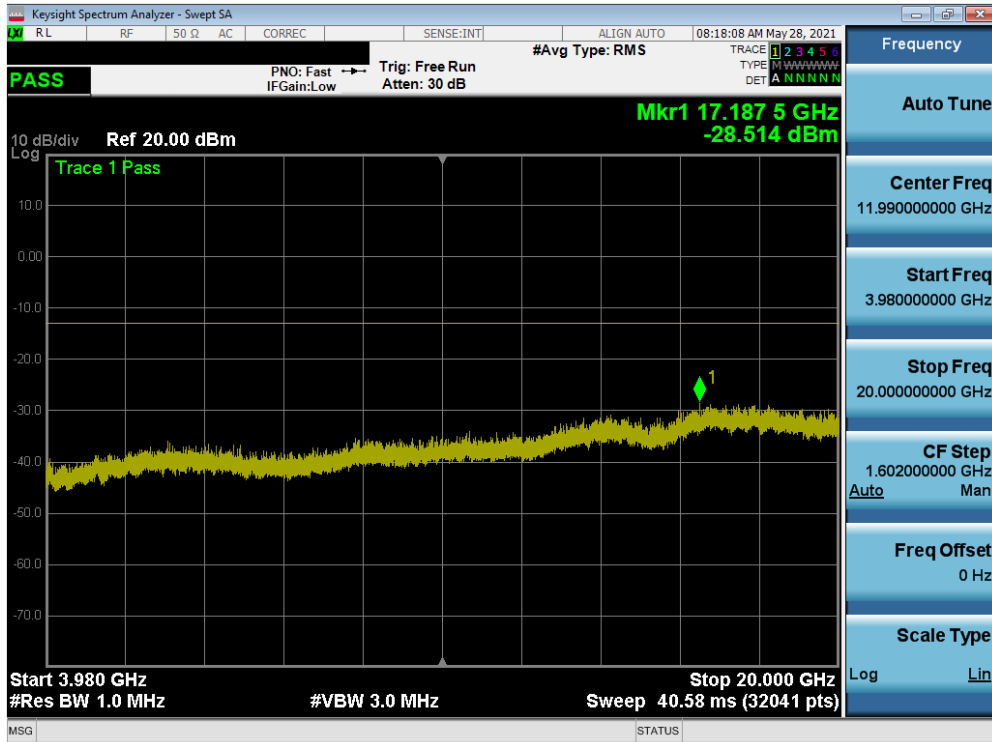
Plot 7-78 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 62 of 161

NR Band n77 (PC2) – C-Band – SRS-3

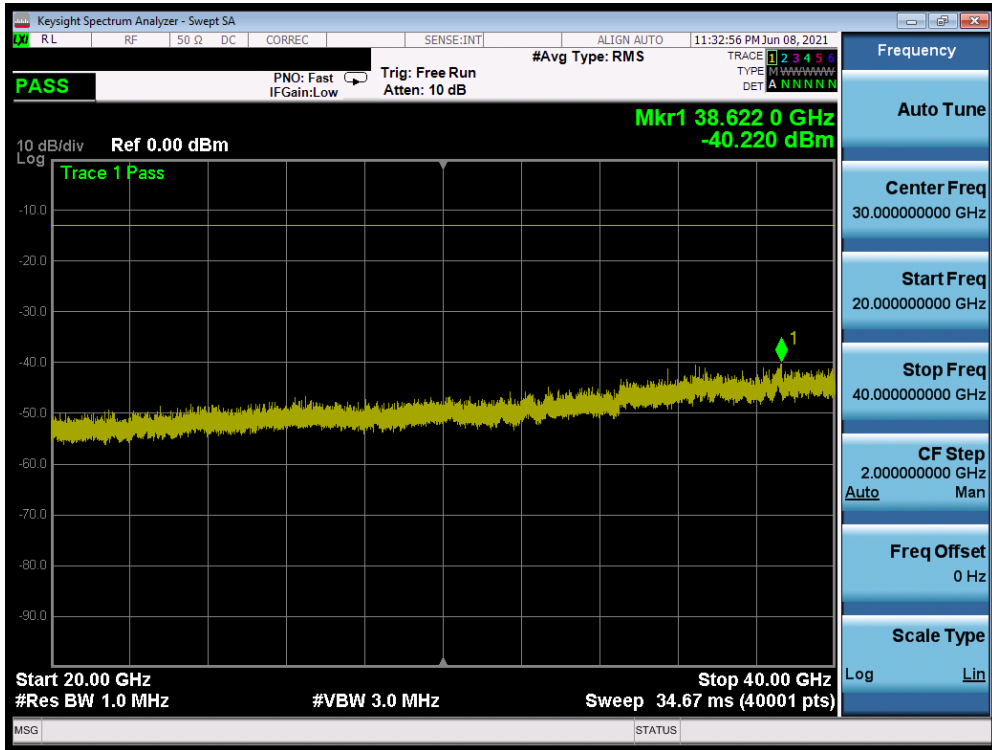


Plot 7-79. Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

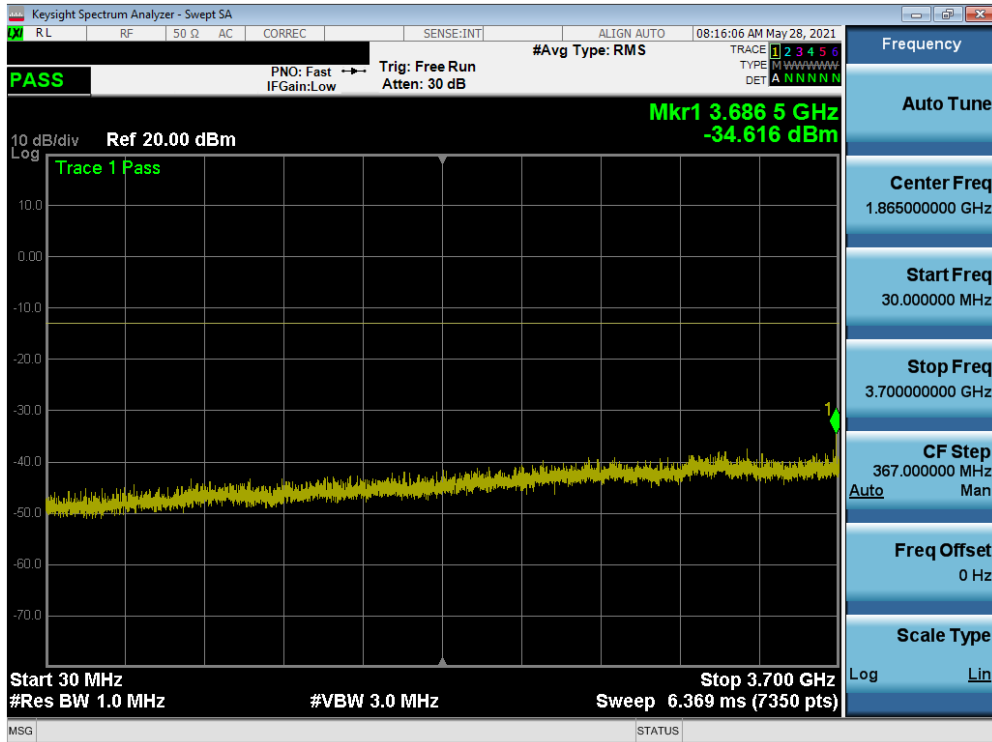


Plot 7-80 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 63 of 161

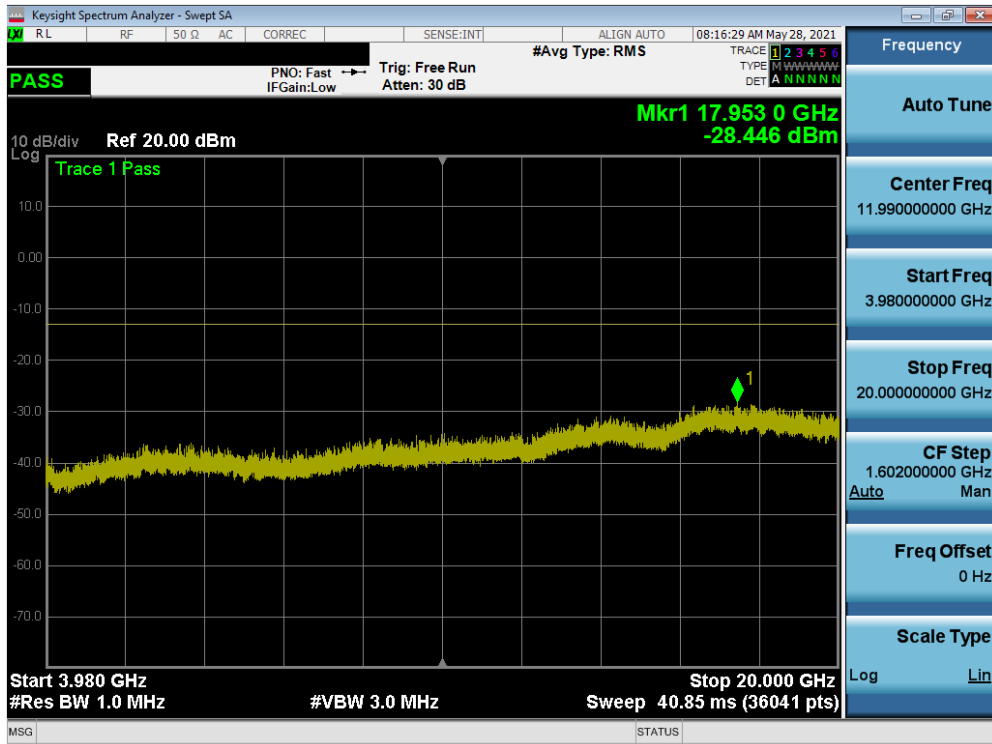


Plot 7-81 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

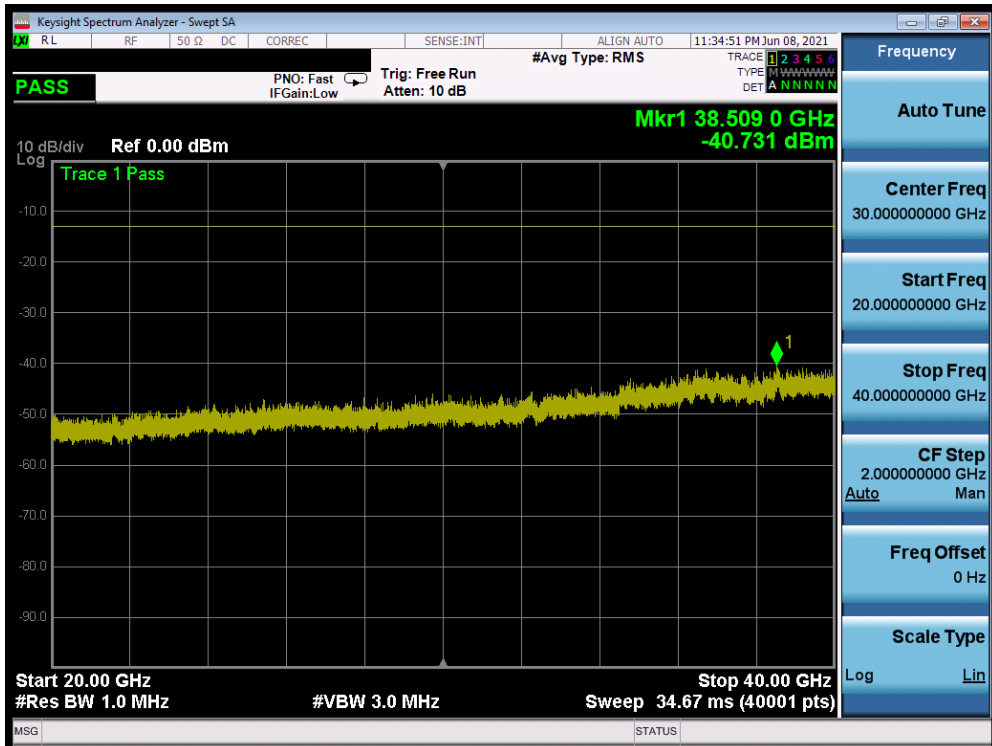


Plot 7-82 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 64 of 161

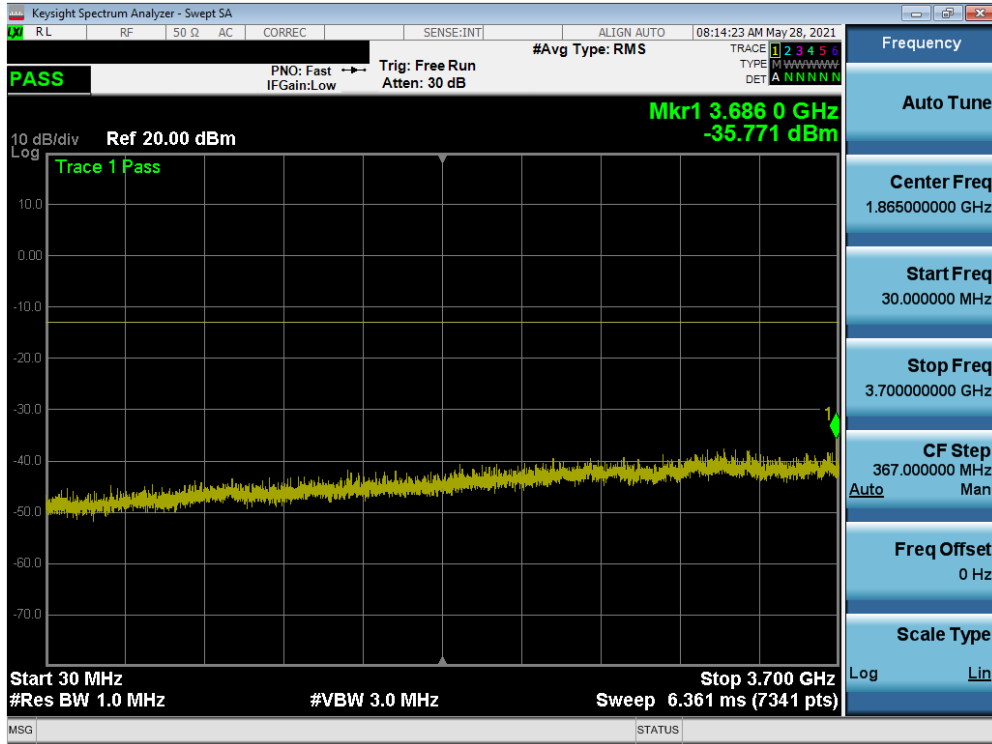


Plot 7-83 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

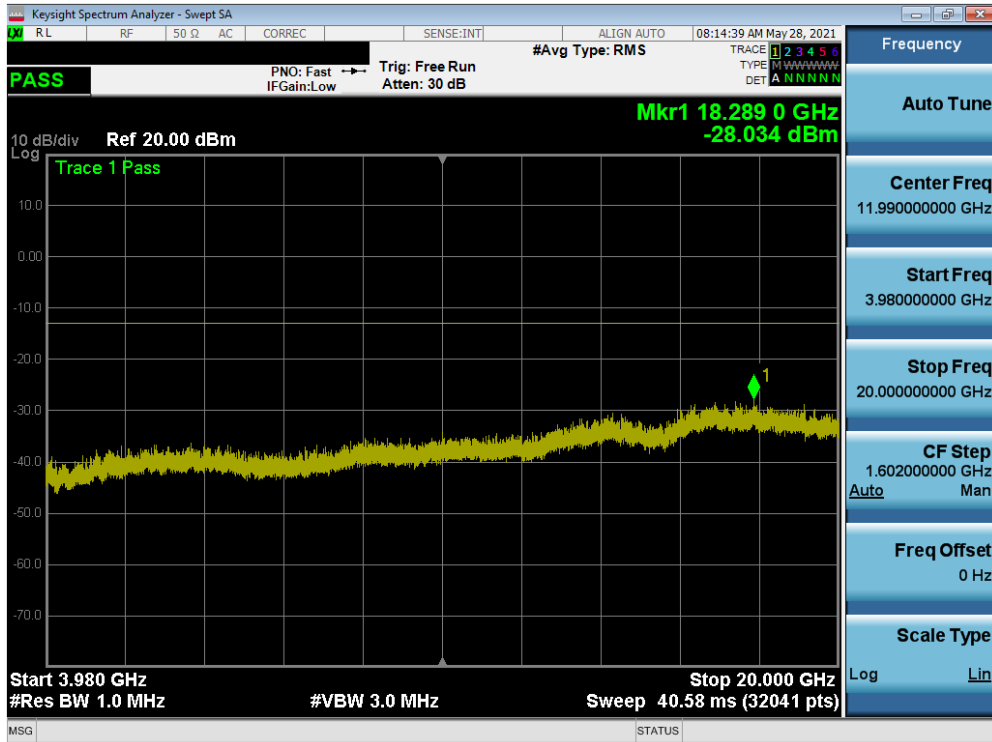


Plot 7-84 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 65 of 161

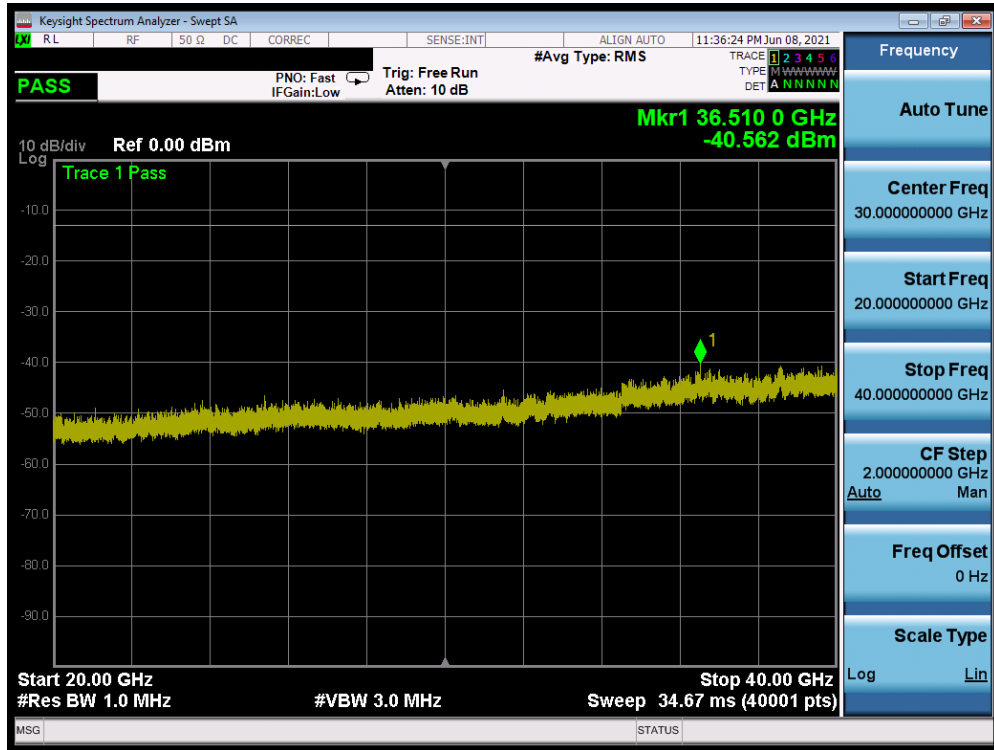


Plot 7-85 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)



Plot 7-86 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)

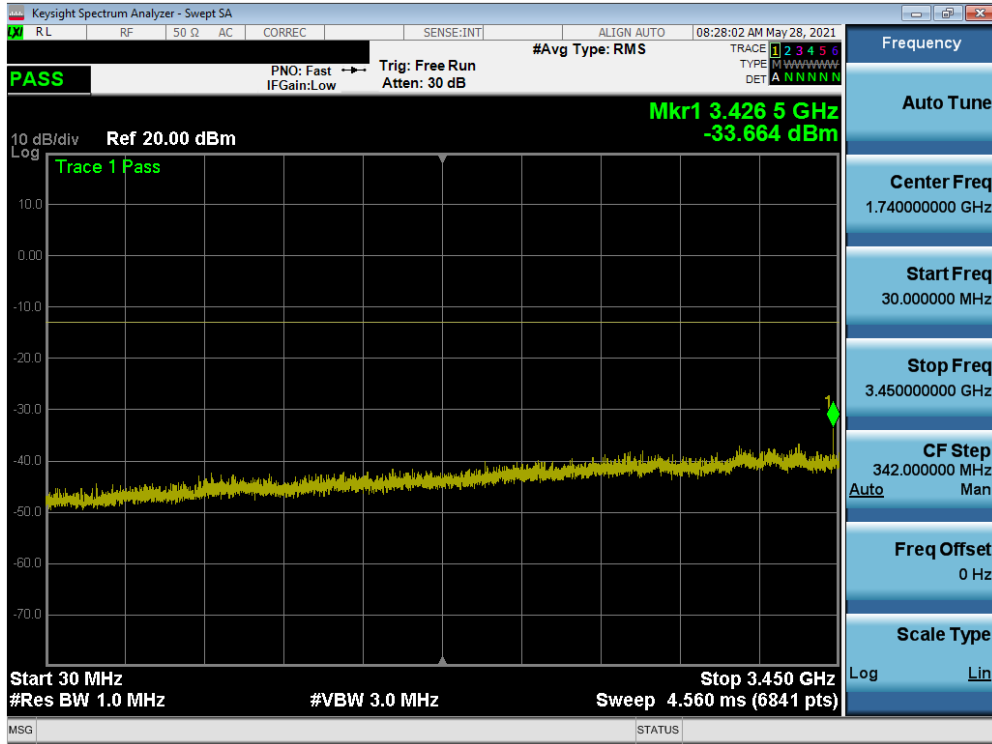
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 66 of 161



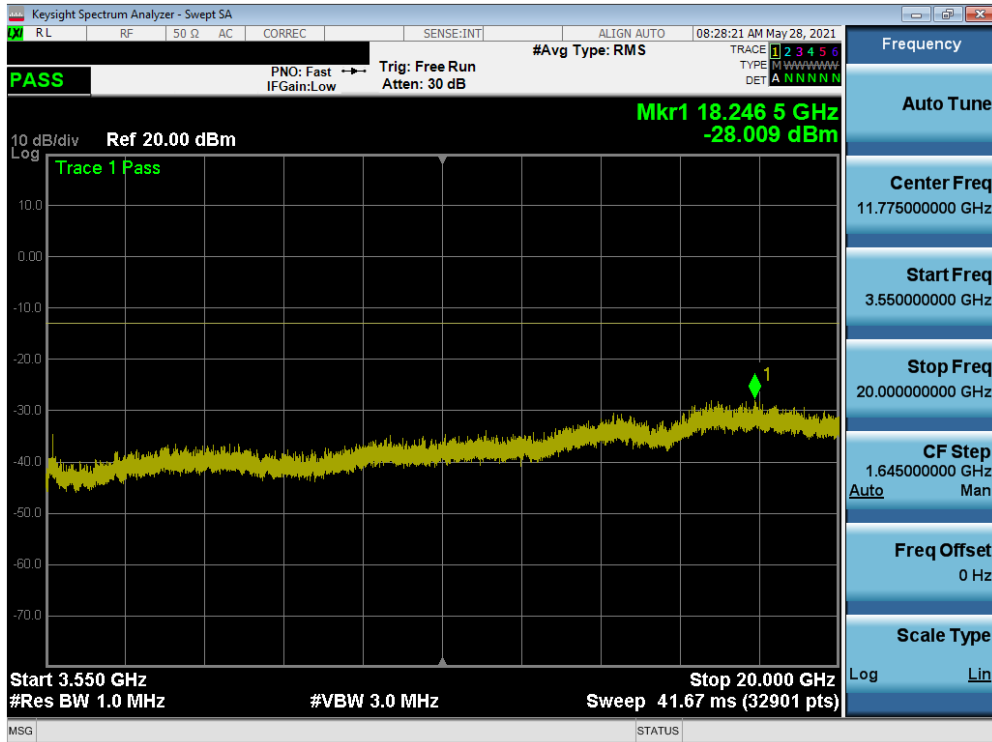
Plot 7-87 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 67 of 161

NR Band n77 (PC2) – DoD-Band – SRS-3

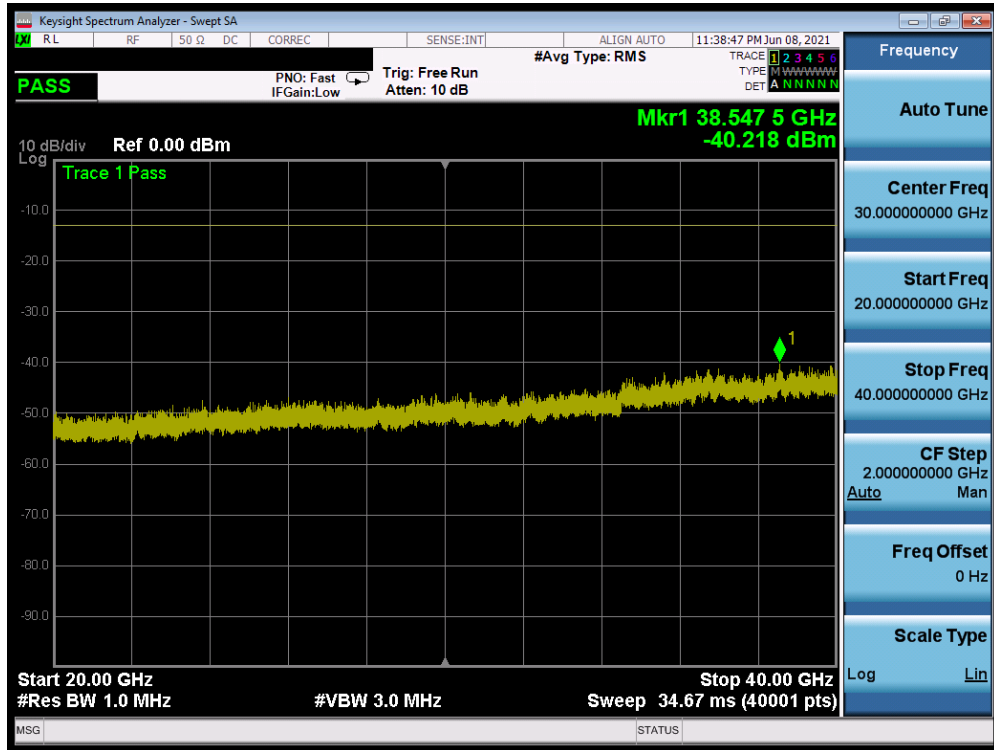


Plot 7-88 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)



Plot 7-89 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

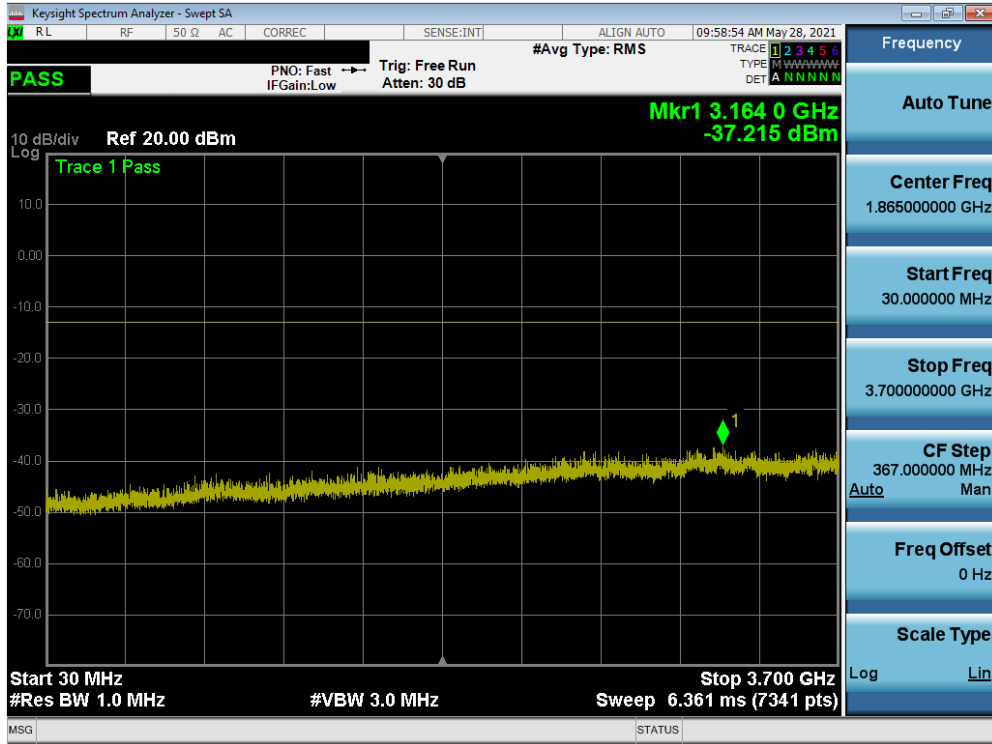
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 68 of 161



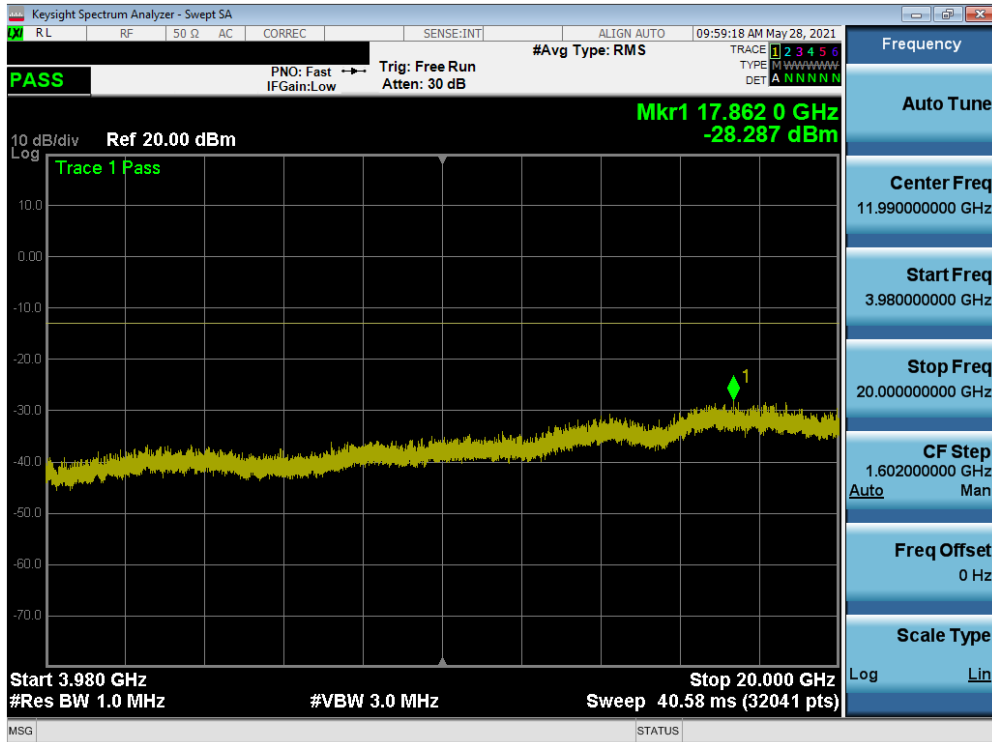
Plot 7-90 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 69 of 161

NR Band n77 (PC2) – C-Band – SRS-4

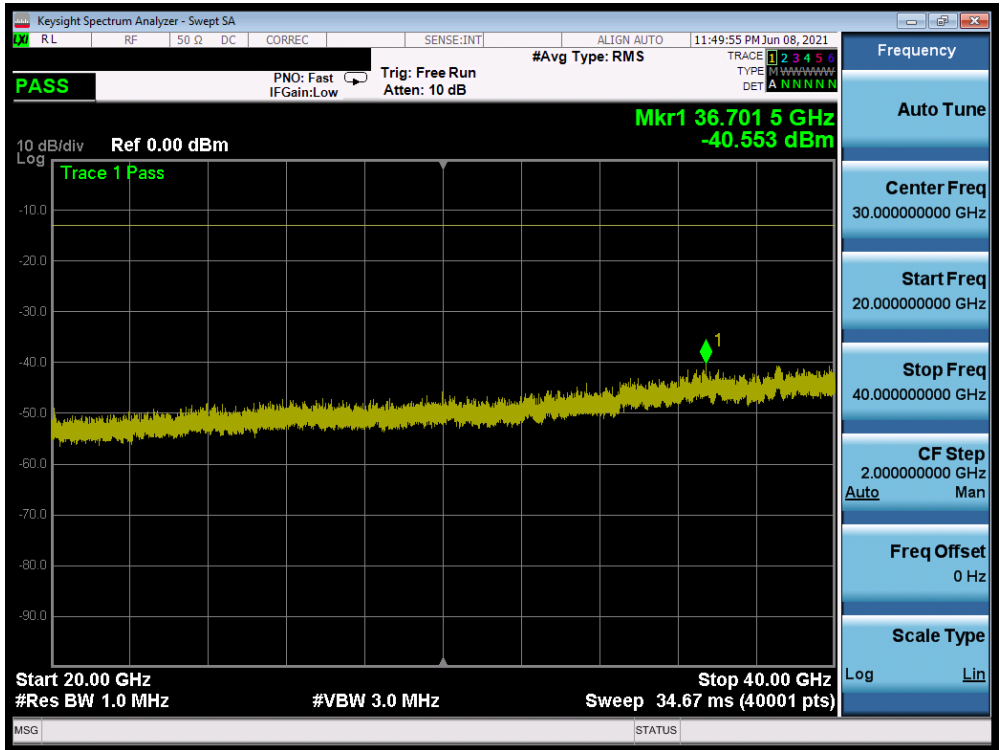


Plot 7-91. Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

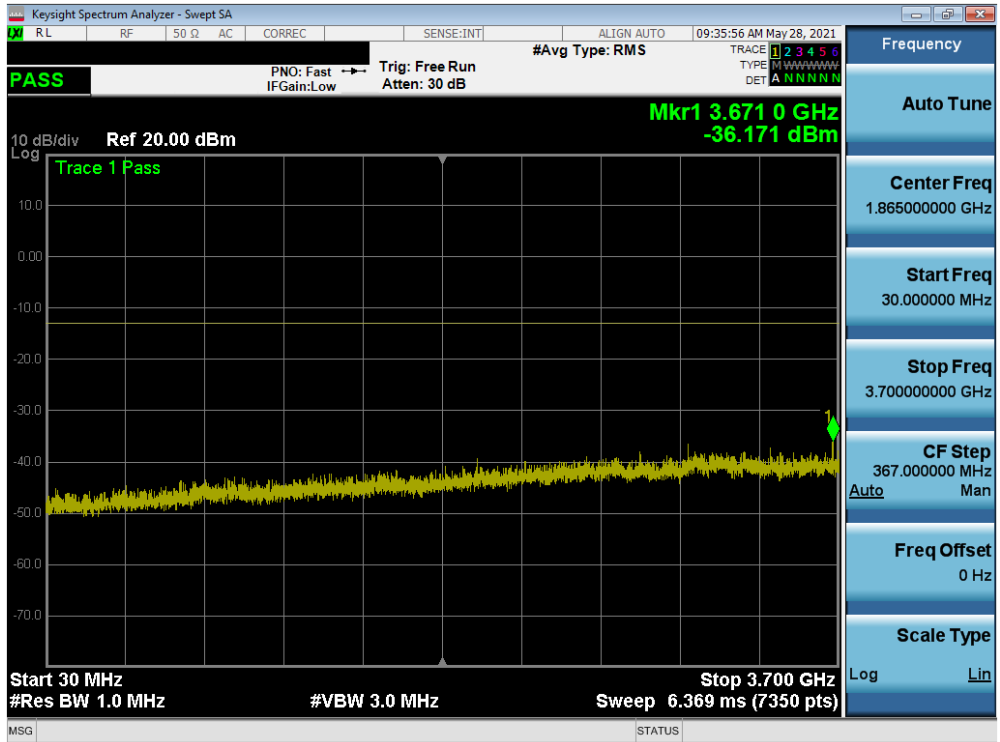


Plot 7-92 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 70 of 161

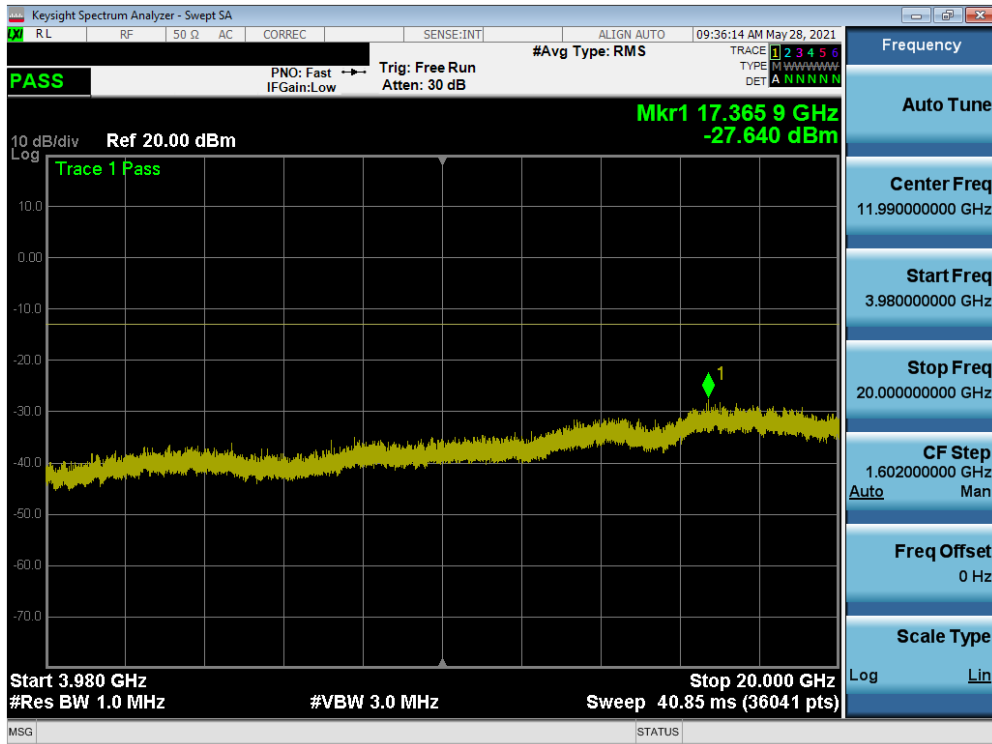


Plot 7-93 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Low Channel)

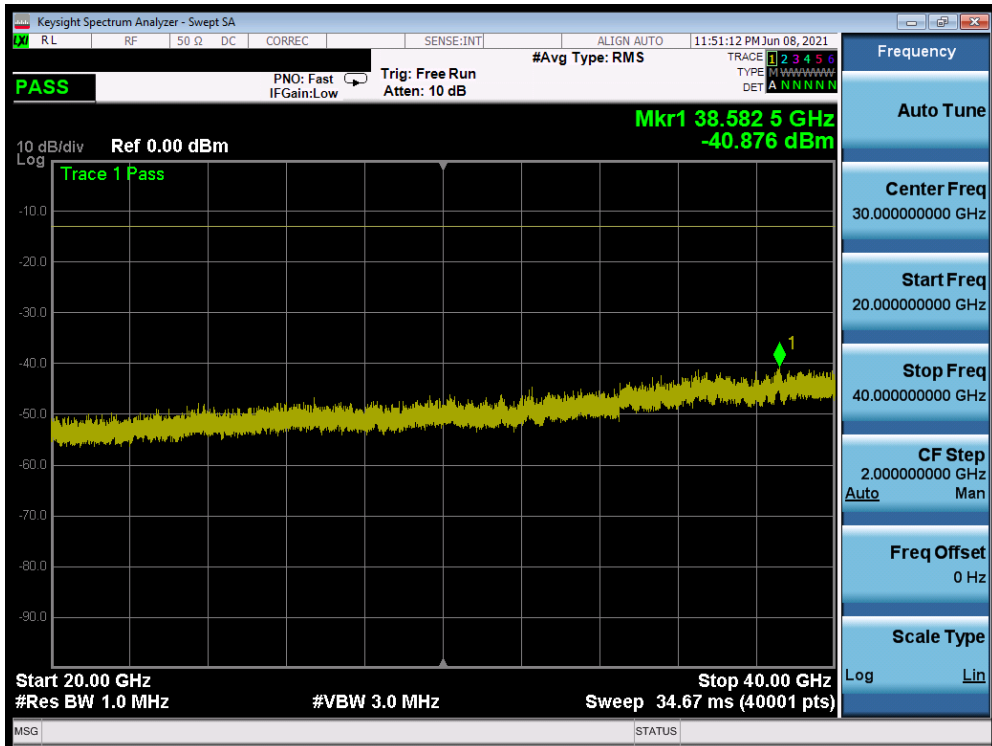


Plot 7-94 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 71 of 161

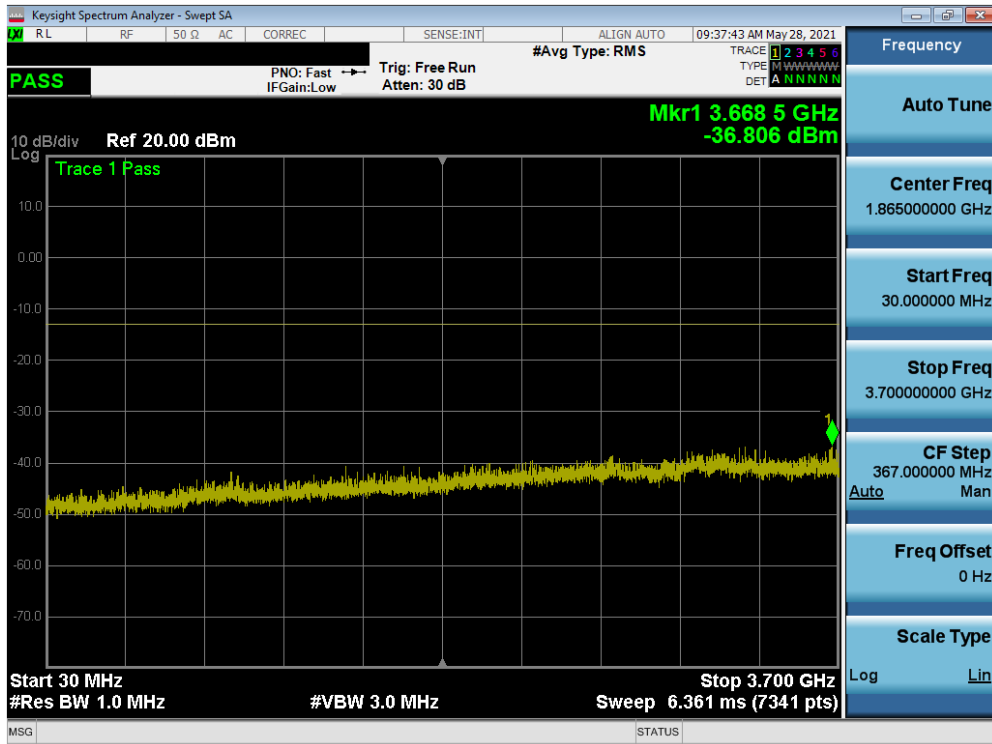


Plot 7-95 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

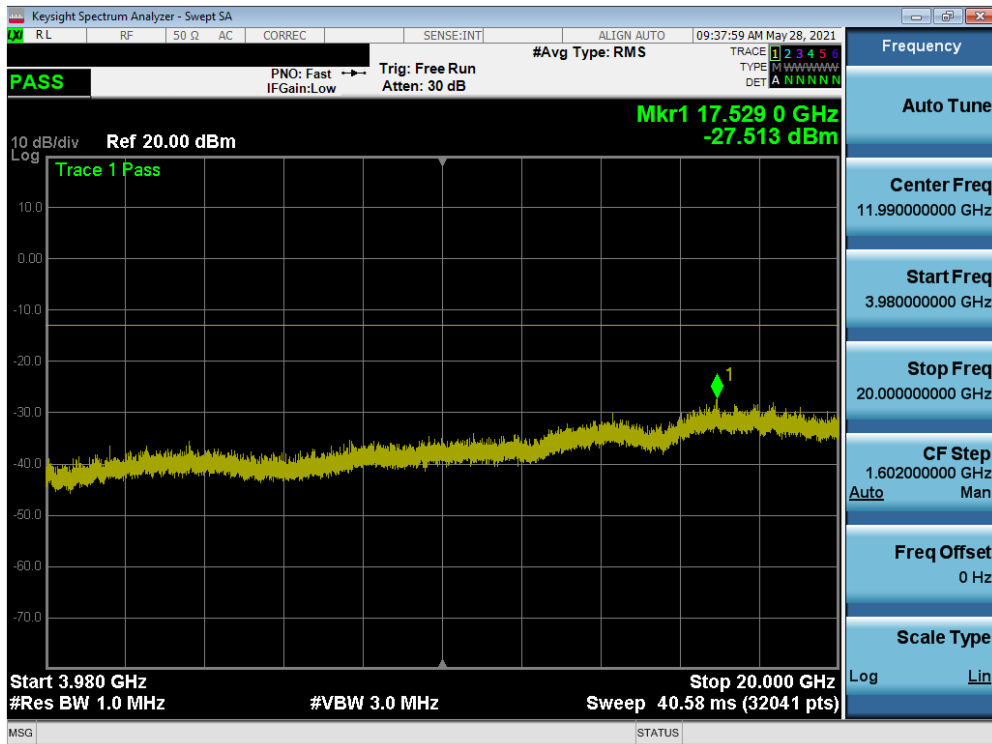


Plot 7-96 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)



FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 72 of 161

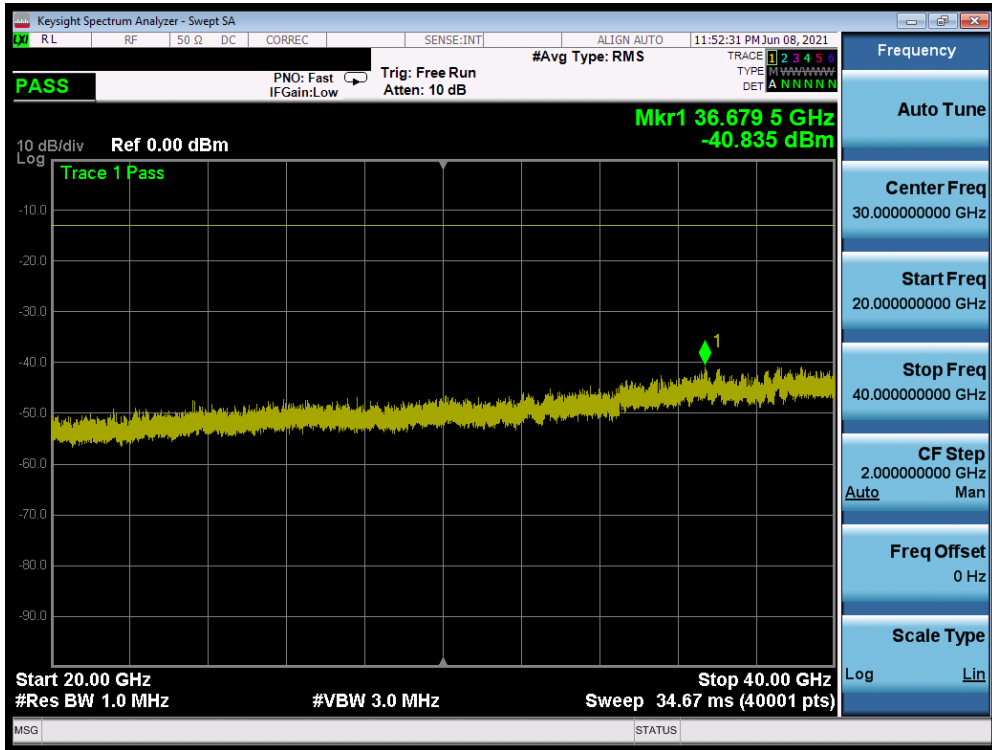


Plot 7-97 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)



Plot 7-98 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)

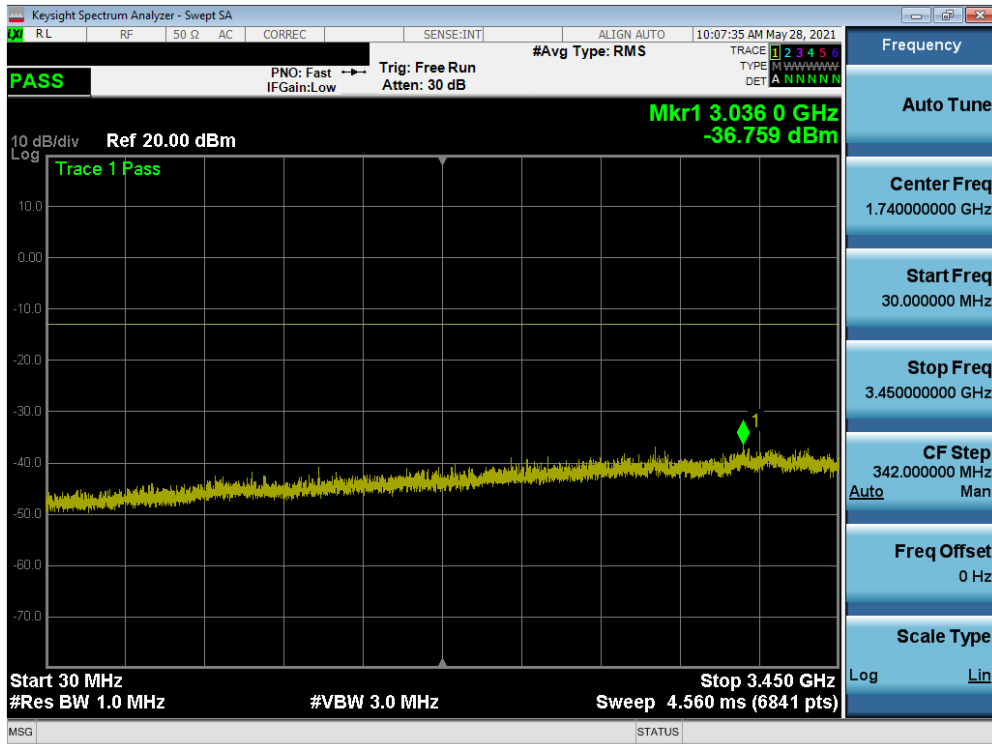
FCC ID: A3LSMF711U		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 73 of 161



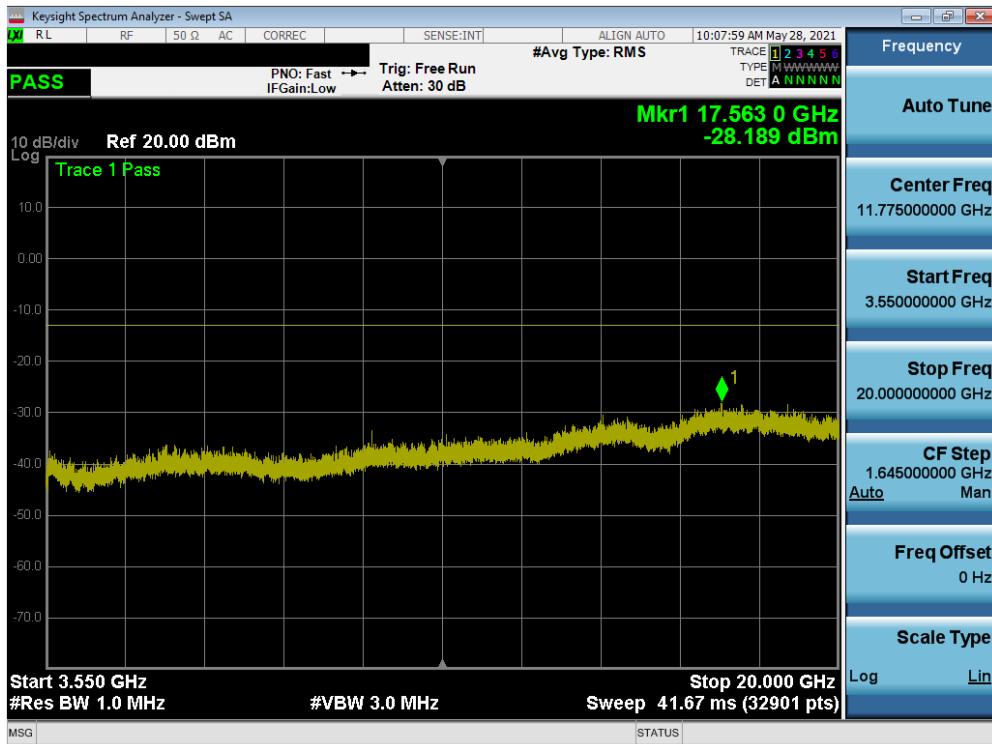
Plot 7-99 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - High Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 74 of 161

NR Band n77 (PC2) – DoD-Band – SRS-4

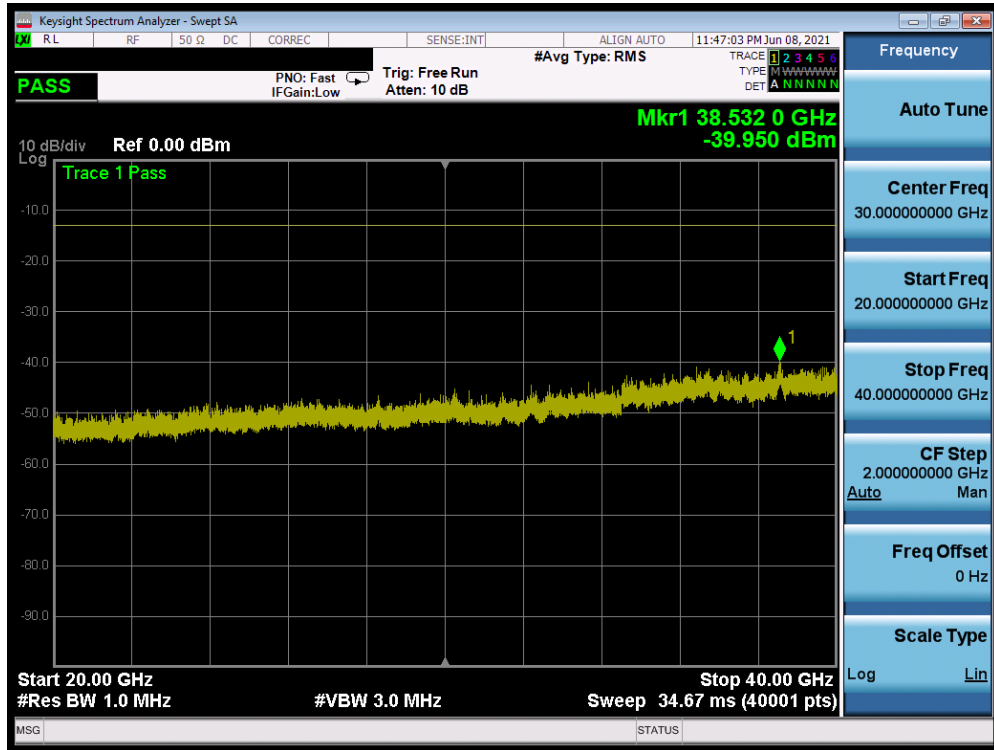


Plot 7-100 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)



Plot 7-101 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 75 of 161



Plot 7-102 Conducted Spurious Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 136 - Mid Channel)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 76 of 161

7.5 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 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 conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW \geq 1% of the emission bandwidth
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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





Figure 7-4. Test Instrument & Measurement Setup

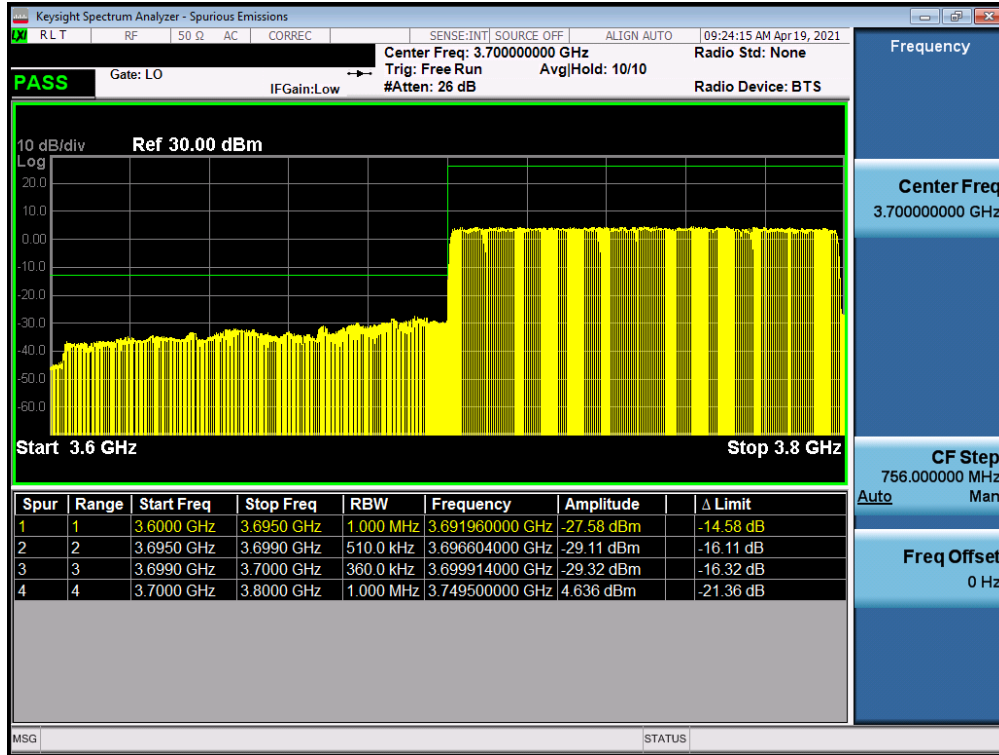
FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 77 of 161

Test Notes

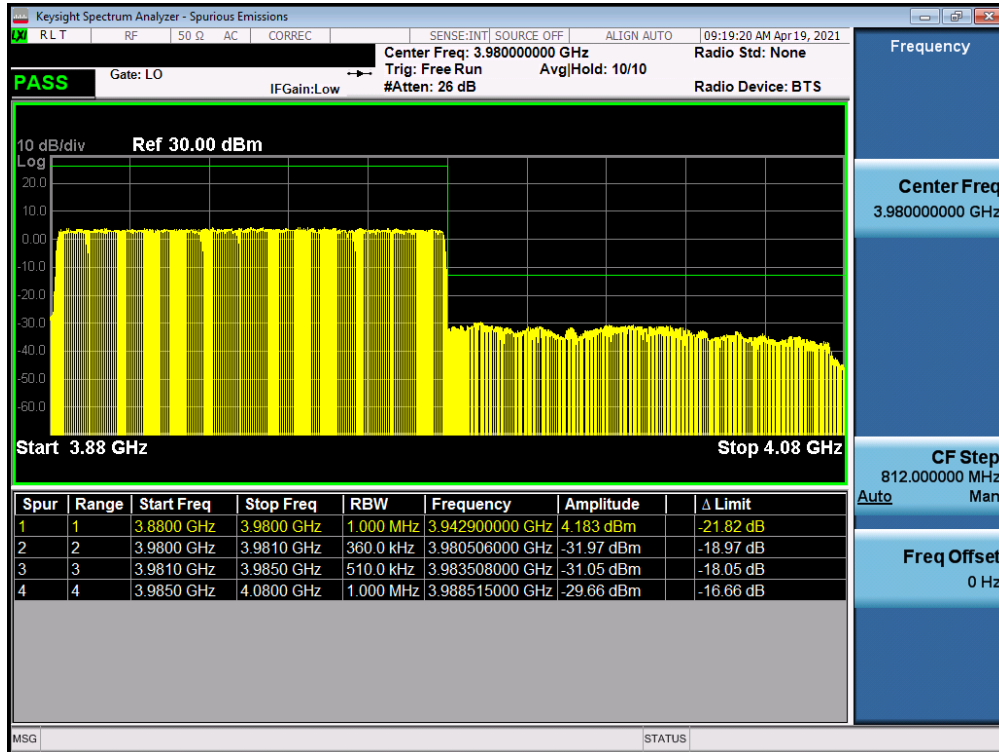
1. For 3700-3980 MHz operation, per 27.53(l)(2), in the 1 MHz bands immediately outside and adjacent to the frequency block, a minimum resolution bandwidth of either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. In the bands between 1 and 5 MHz removed from the frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
2. For 3450-3550 MHz operation, per 27.53(n)(2), in the 1 MHz bands immediately outside and adjacent to the frequency block, a minimum resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter, but limited to a maximum of 200 kHz, may be employed to demonstrate compliance with the out-of-band emissions limit. In the bands between 1 and 5 MHz removed from the frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as in Test Note #1 above.
3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results were determined to occur with the CP-OFDM transmission scheme. These results from this worst case configuration are reported in this section.

FCC ID: A3LSMF711U	 PART 27 MEASUREMENT REPORT 		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset	Page 78 of 161

NR Band n77 (PC2) – C-Band – SRS-1

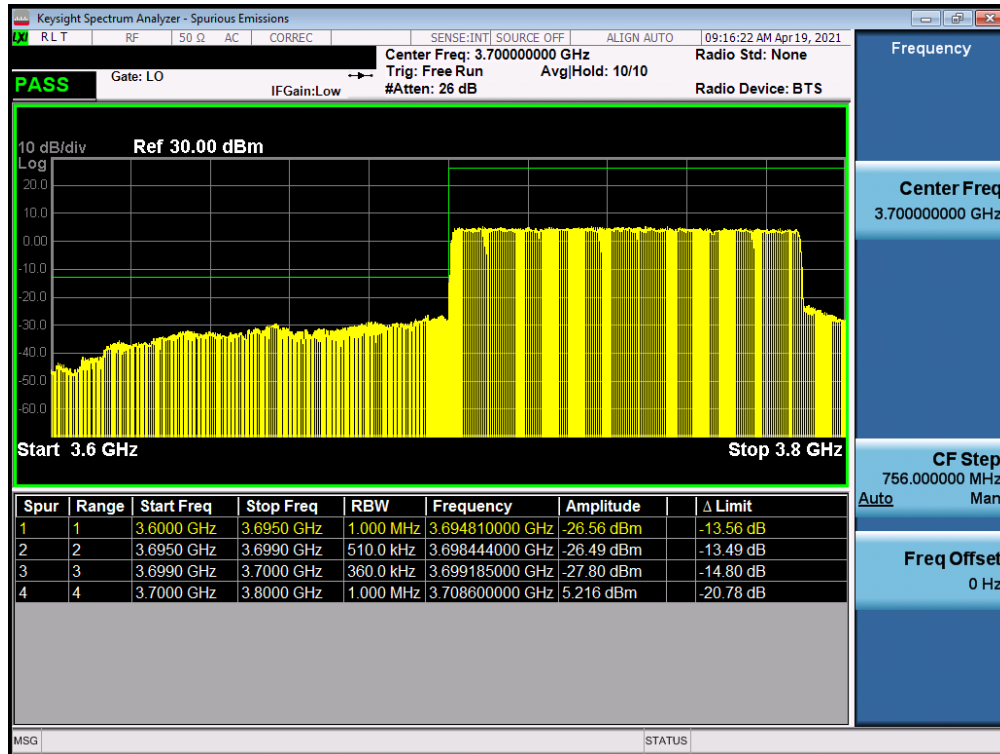


Plot 7-103. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

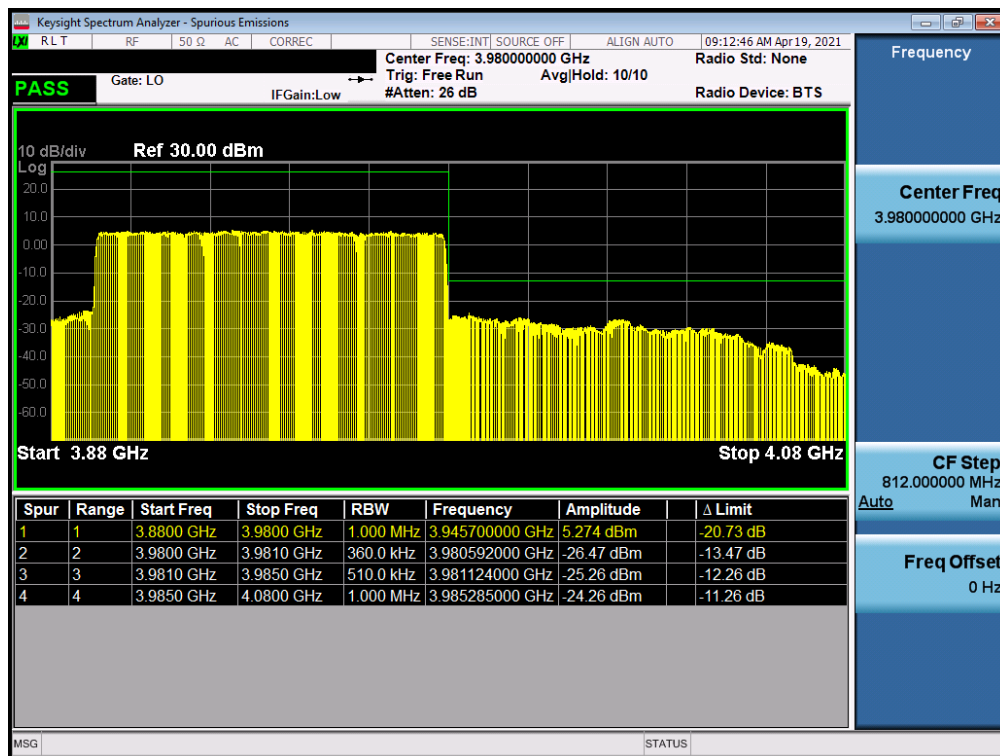


Plot 7-104. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 79 of 161

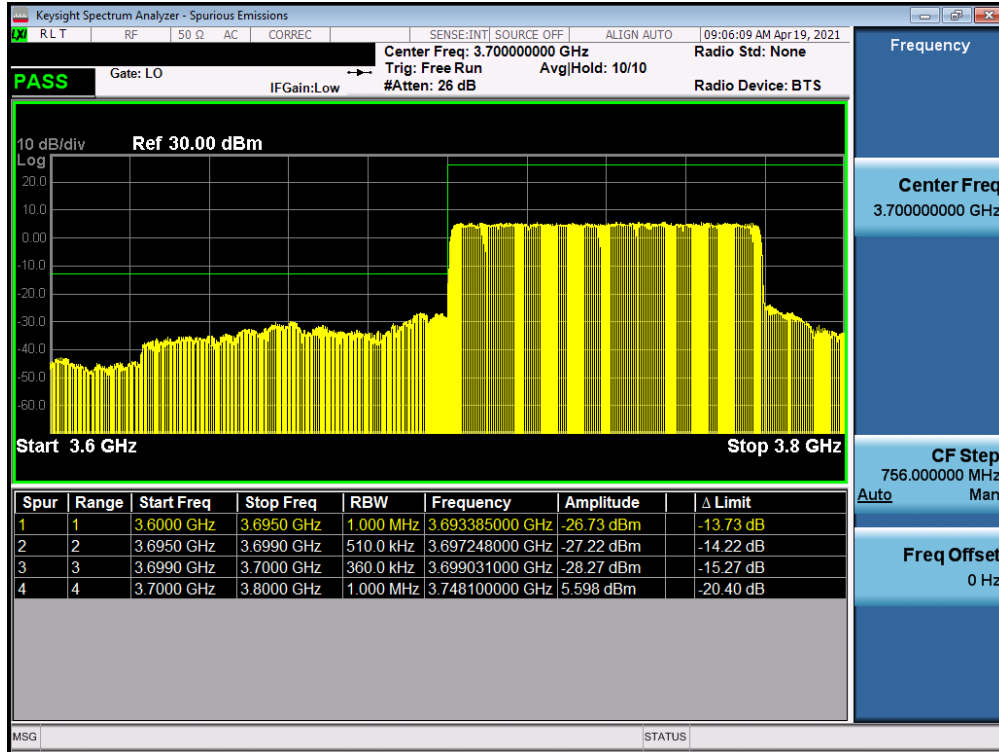


Plot 7-105. Lower Band Edge Plot (NR Band n77 PC2 - 90MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

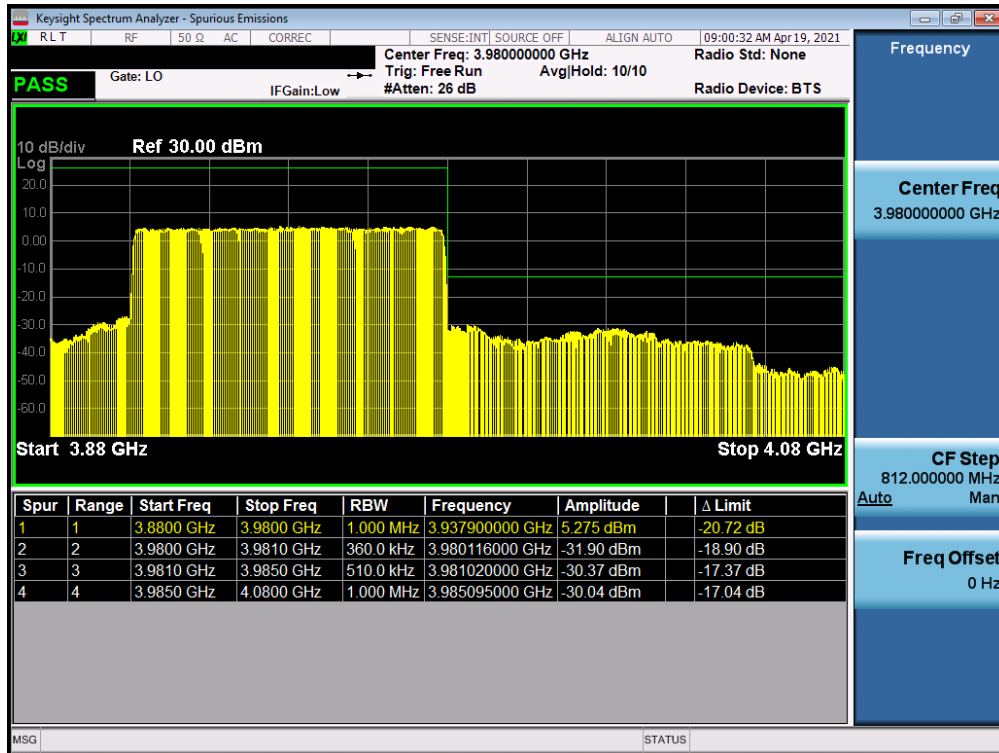


Plot 7-106. Upper Band Edge Plot (NR Band n77 PC2 - 90MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 80 of 161

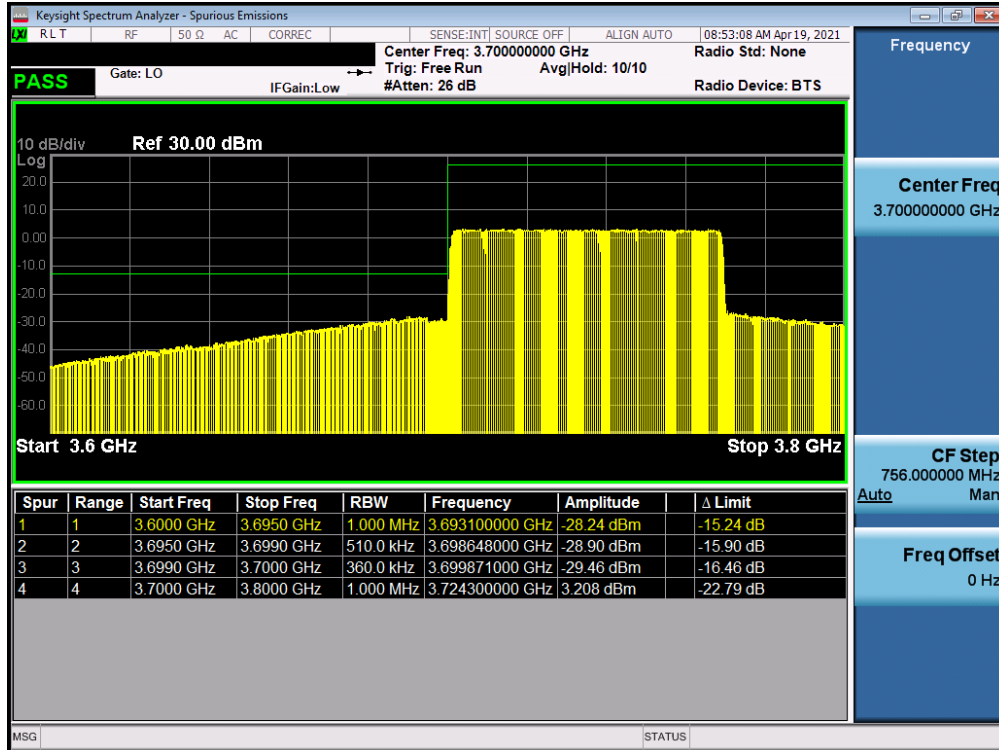


Plot 7-107. Lower Band Edge Plot (NR Band n77 PC2 - 80MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

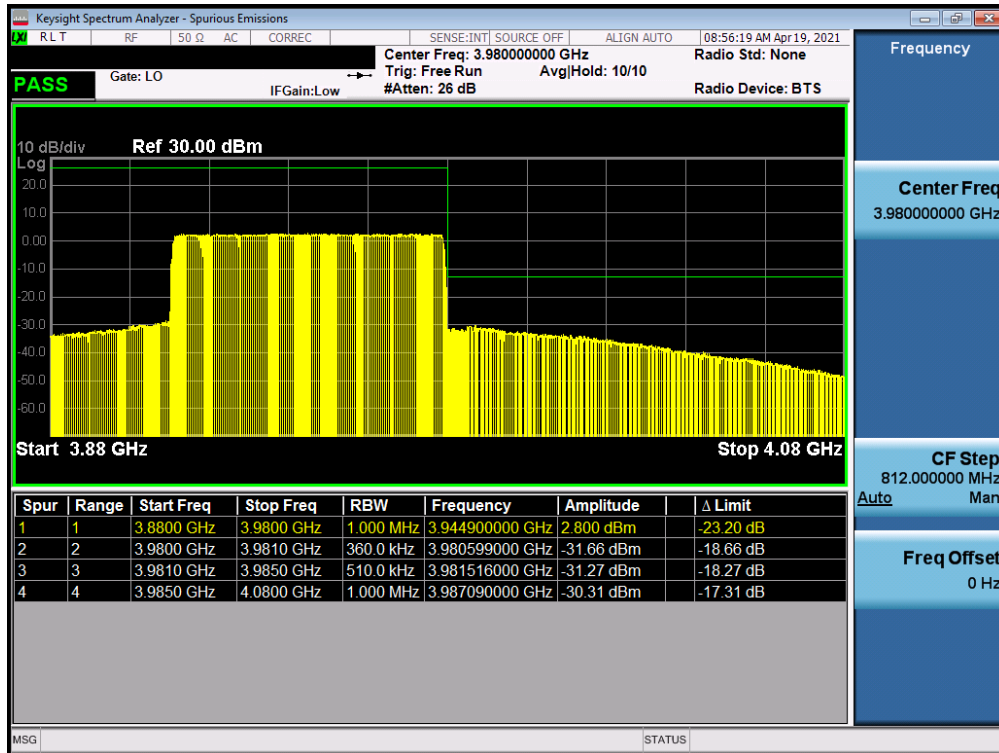


Plot 7-108. Upper Band Edge Plot (NR Band n77 PC2 - 80MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 81 of 161

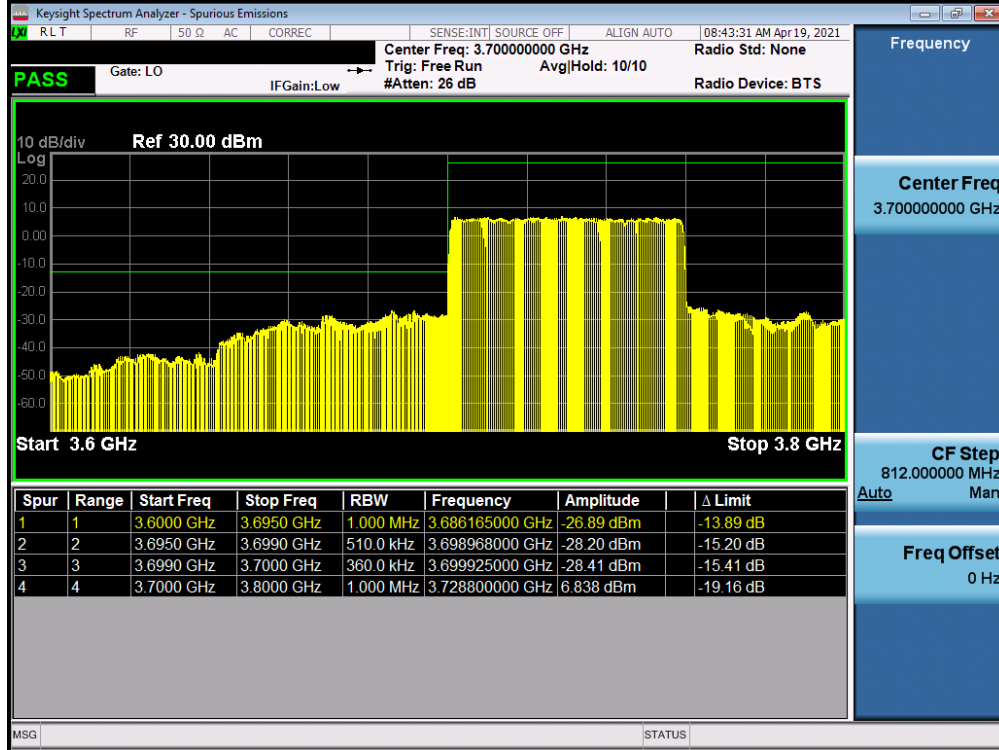


Plot 7-109. Lower Band Edge Plot (NR Band n77 PC2 - 70MHz CP-OFDM QPSK – Full RB Configuration)

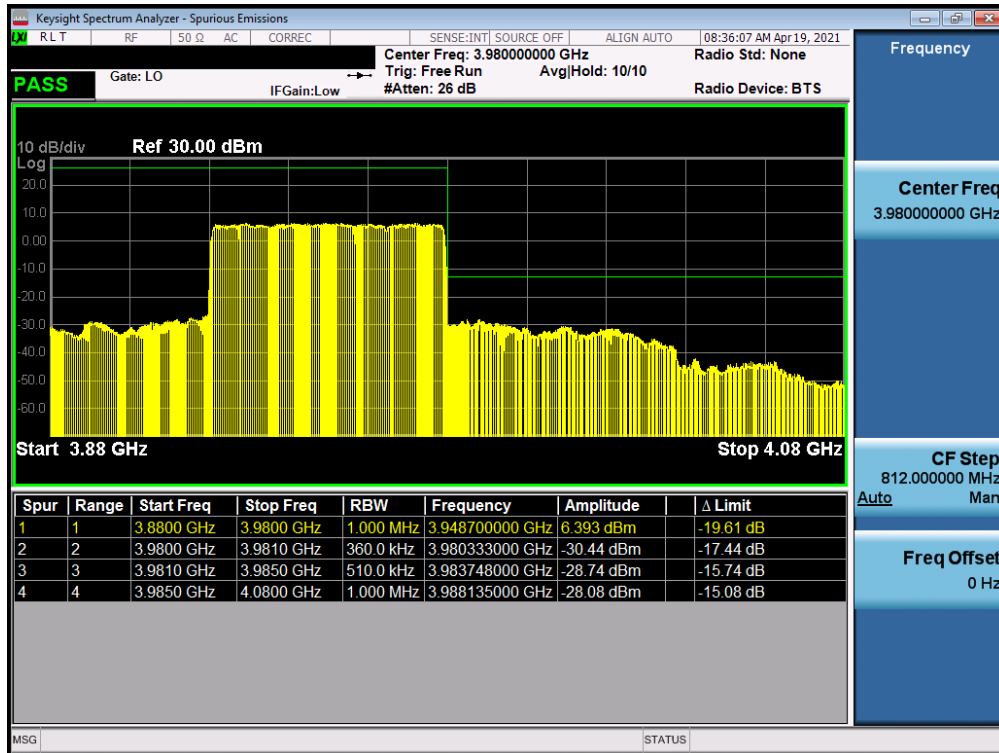


Plot 7-110. Upper Band Edge Plot (NR Band n77 PC2 - 70MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 82 of 161

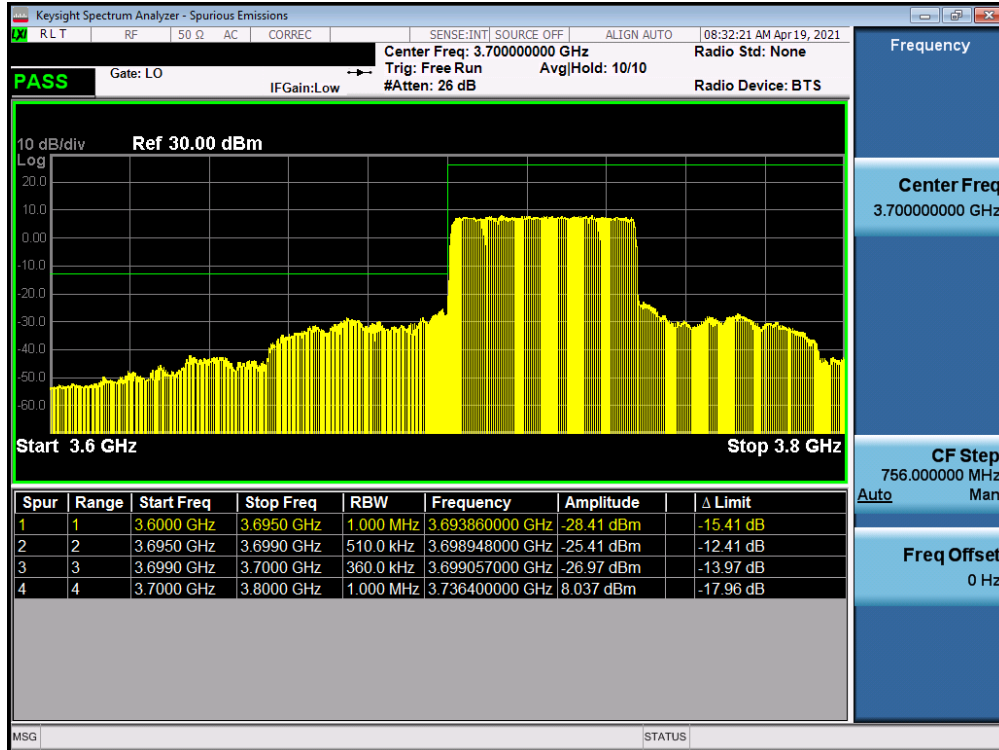


Plot 7-111. Lower Band Edge Plot (NR Band n77 PC2 - 60MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

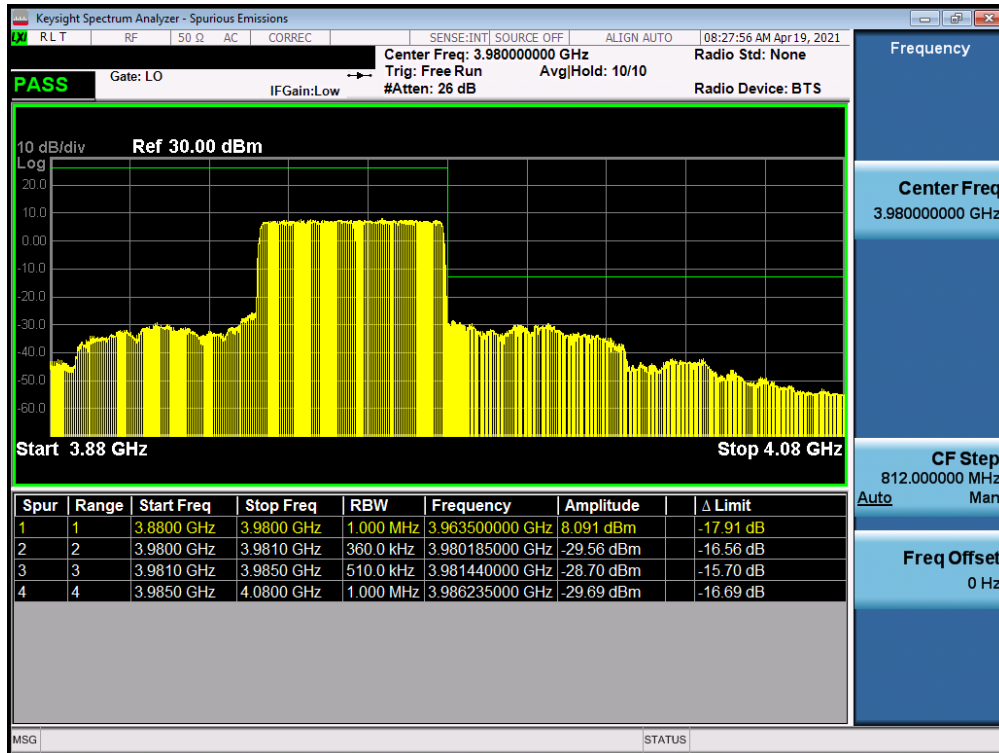


Plot 7-112. Upper Band Edge Plot (NR Band n77 PC2 - 60MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 83 of 161

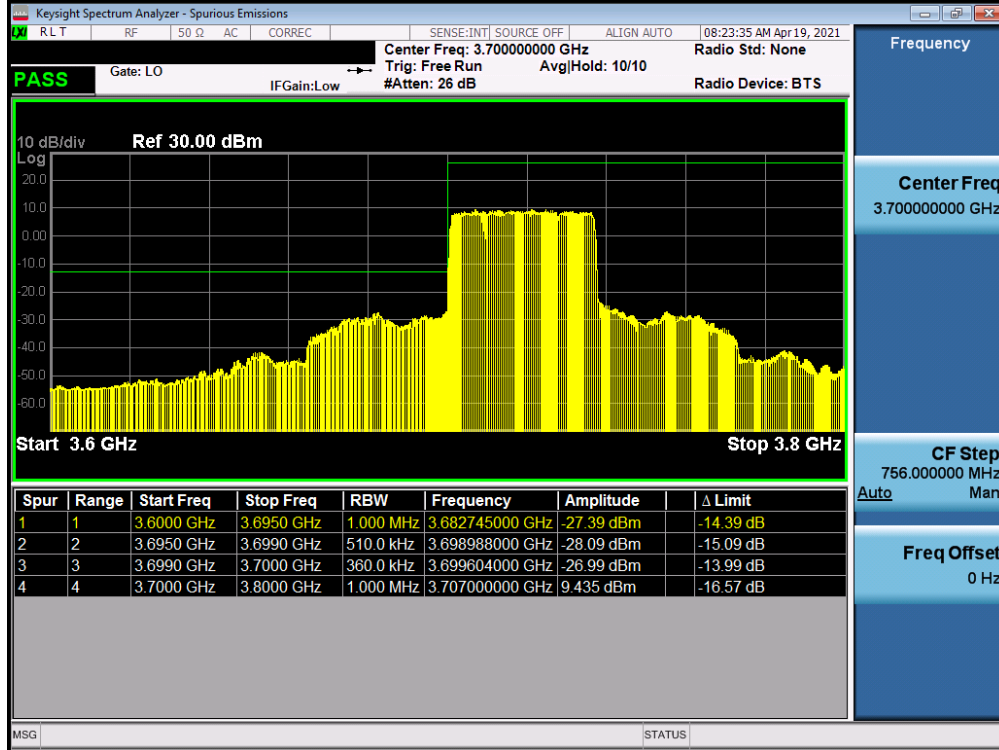


Plot 7-113. Lower Band Edge Plot (NR Band n77 PC2 - 50MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

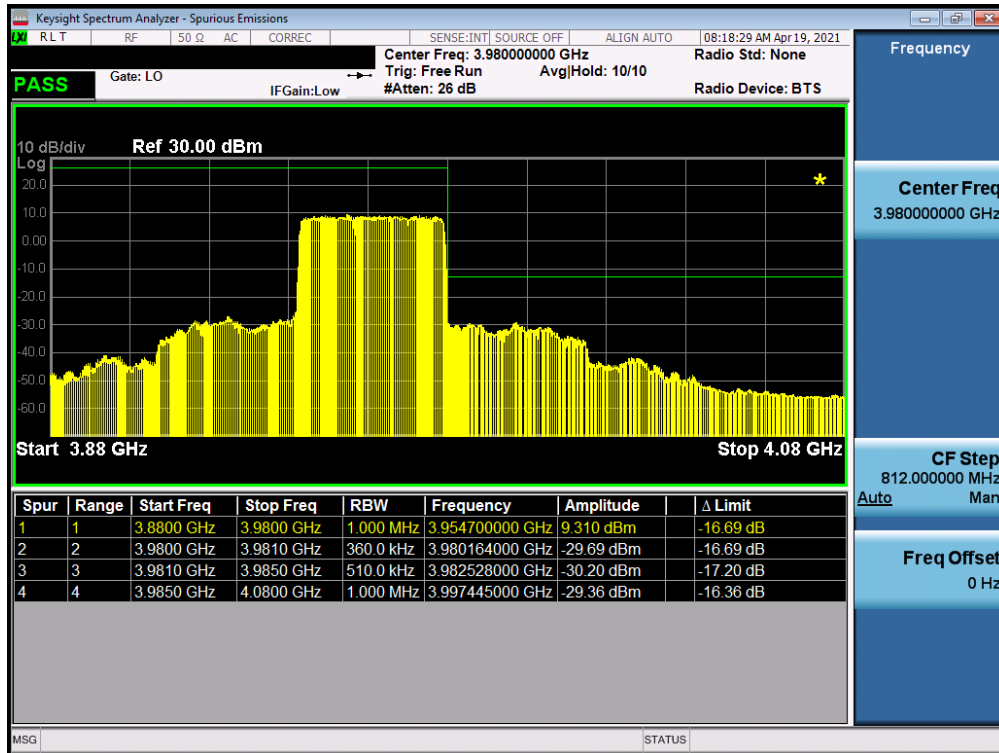


Plot 7-114. Upper Band Edge Plot (NR Band n77 PC2 - 50MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 84 of 161

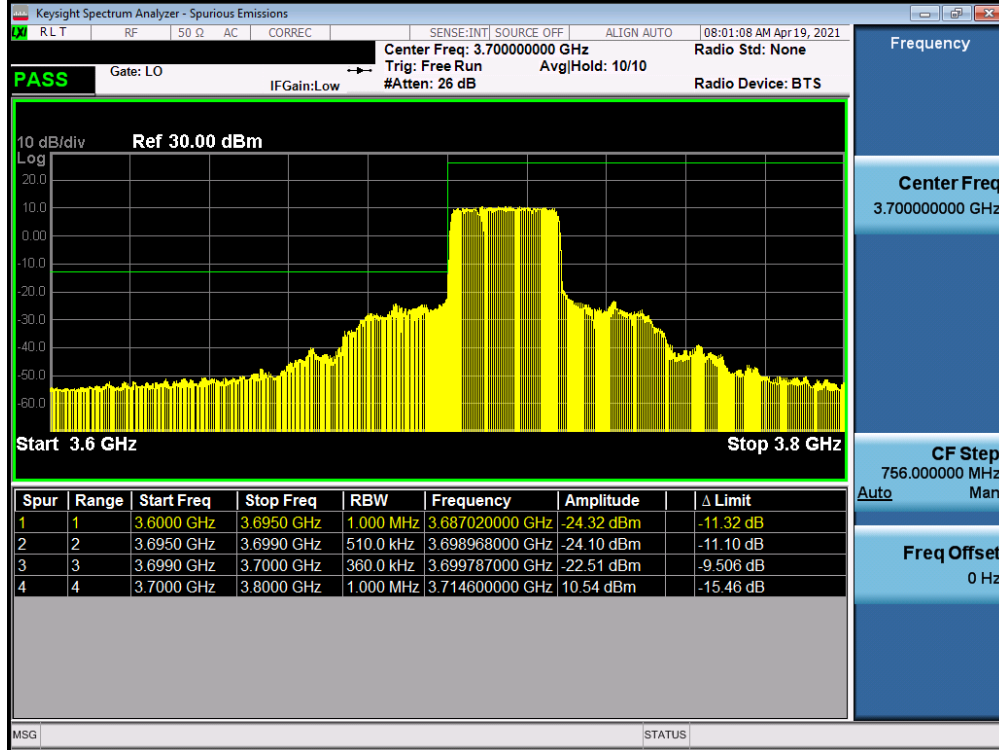


Plot 7-115. Lower Band Edge Plot (NR Band n77 PC2 - 40MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

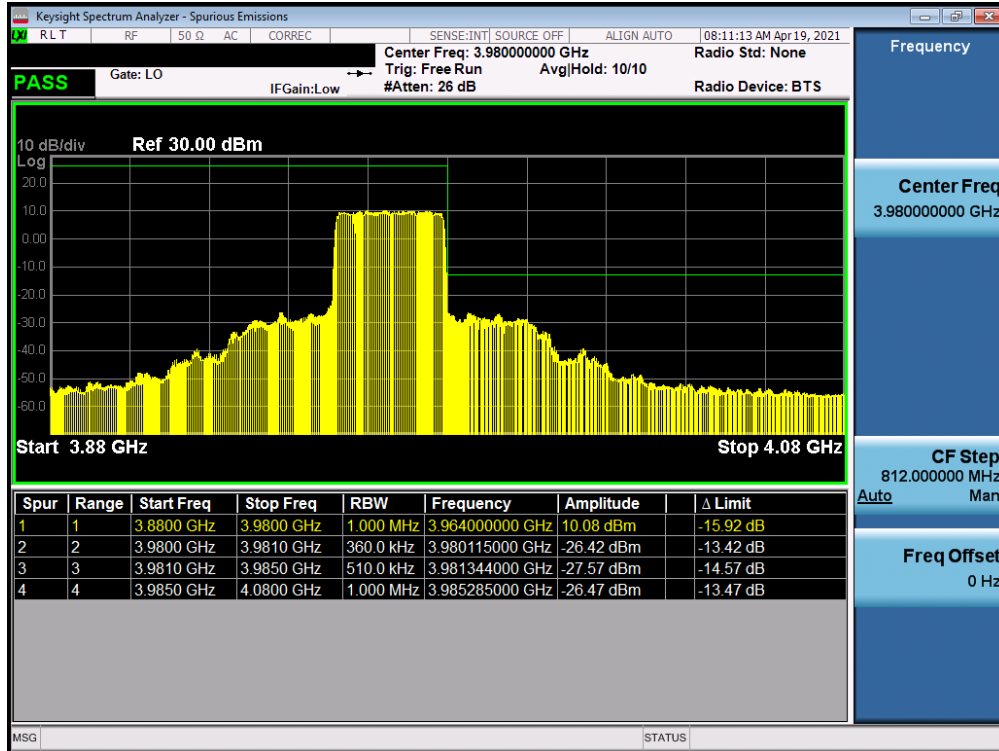


Plot 7-116. Upper Band Edge Plot (NR Band n77 PC2 - 40MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 85 of 161

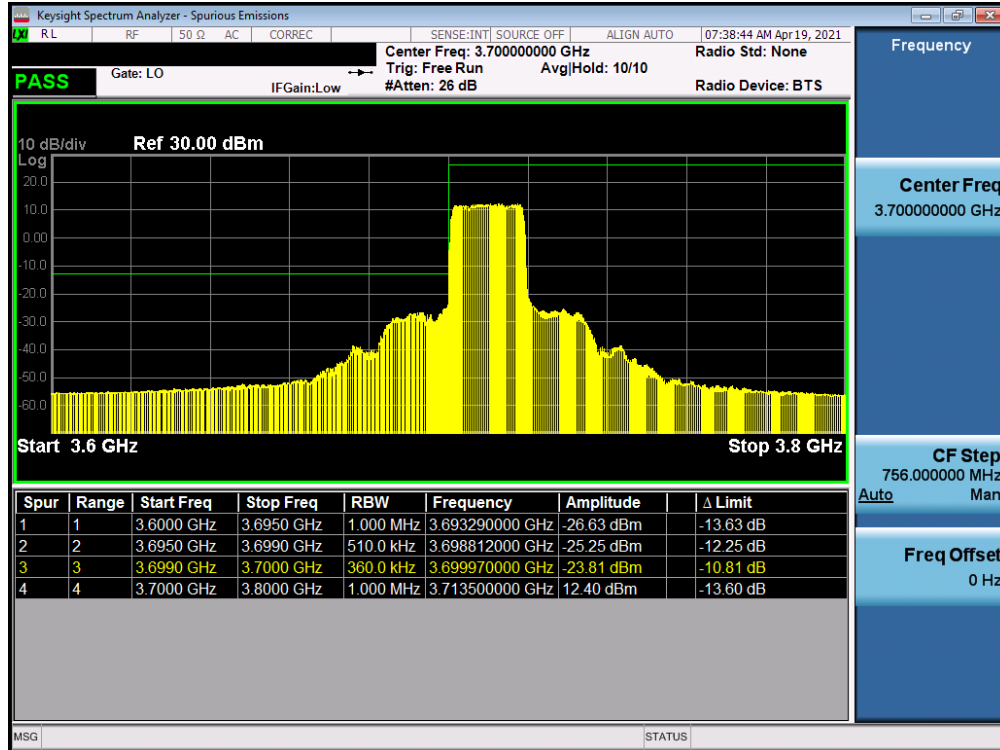


Plot 7-117. Lower Band Edge Plot (NR Band n77 PC2 - 30MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

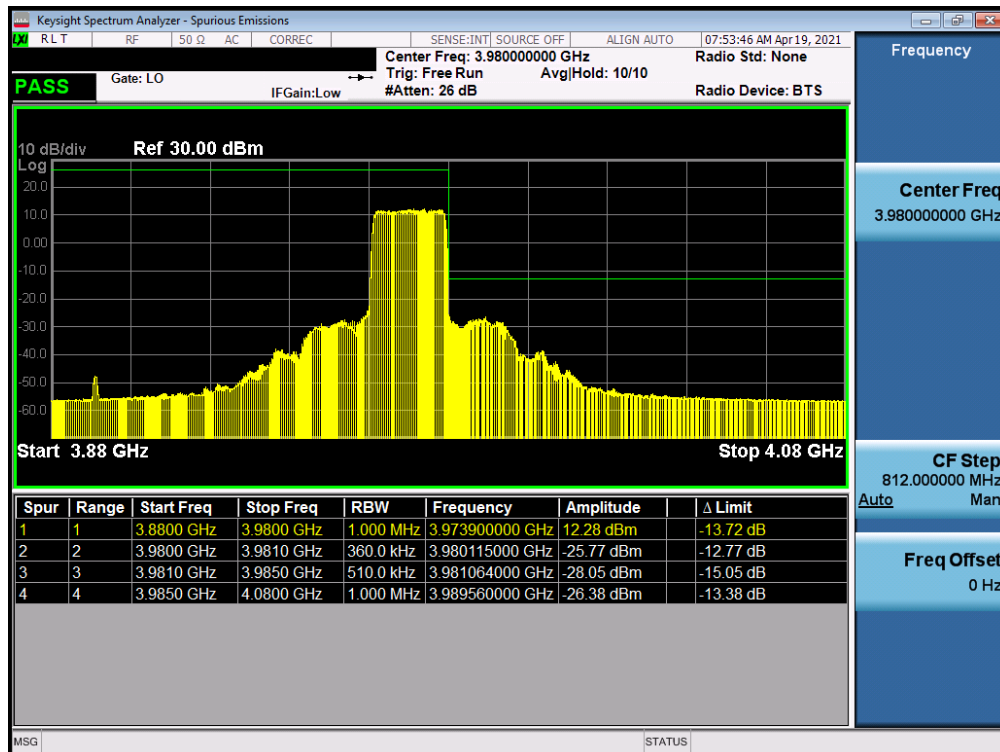


Plot 7-118. Upper Band Edge Plot (NR Band n77 PC2 - 30MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 86 of 161



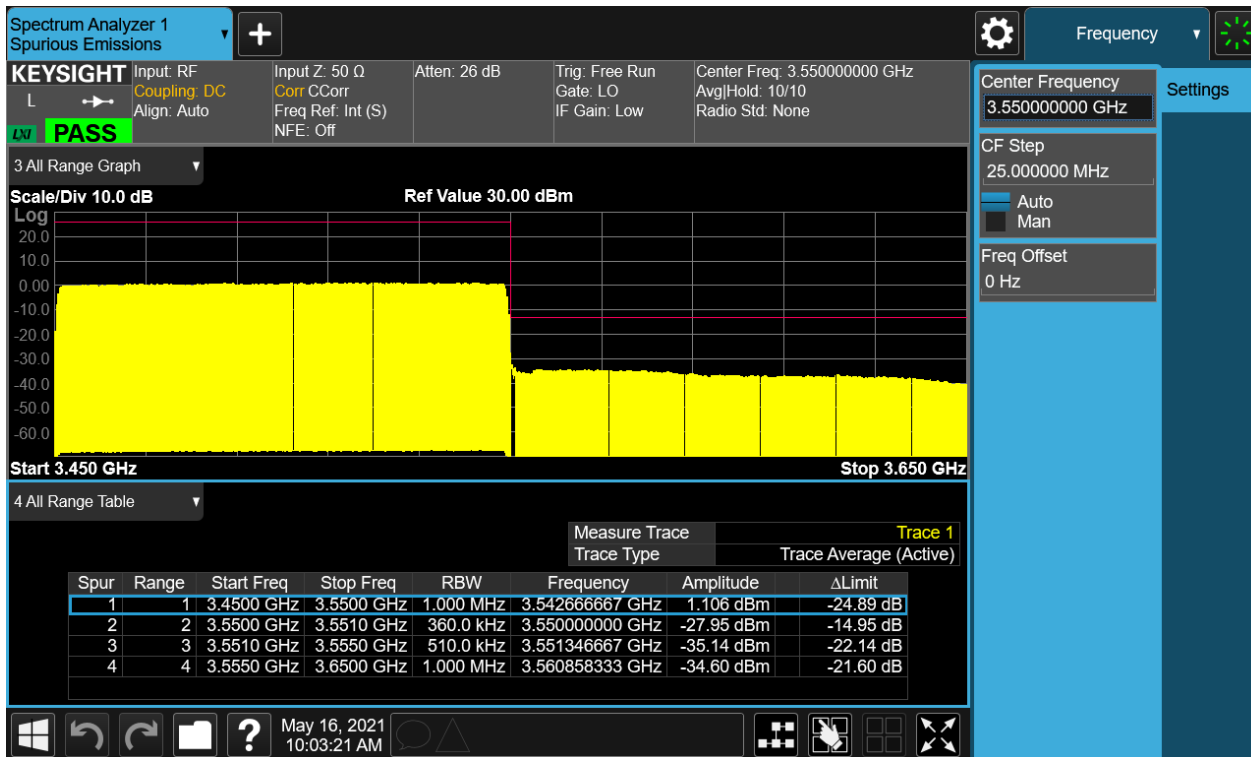
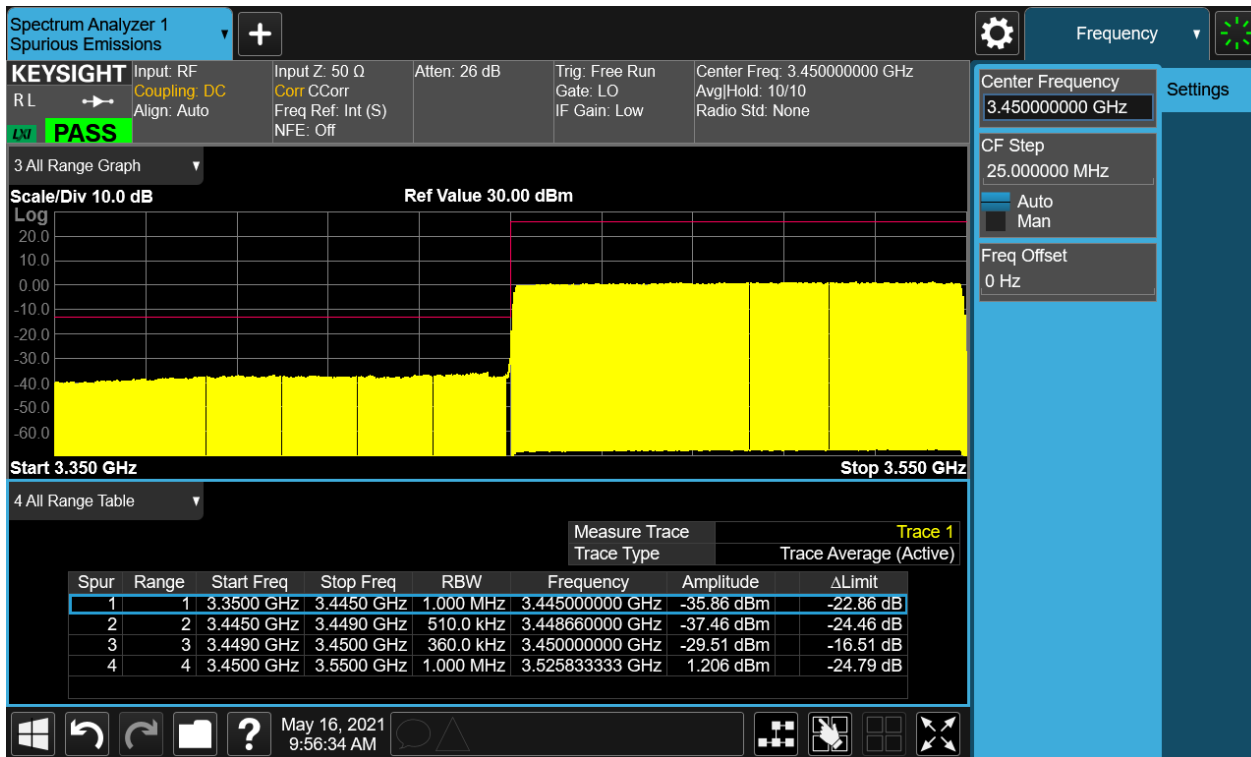
Plot 7-119. Lower Band Edge Plot (NR Band n77 PC2 - 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)



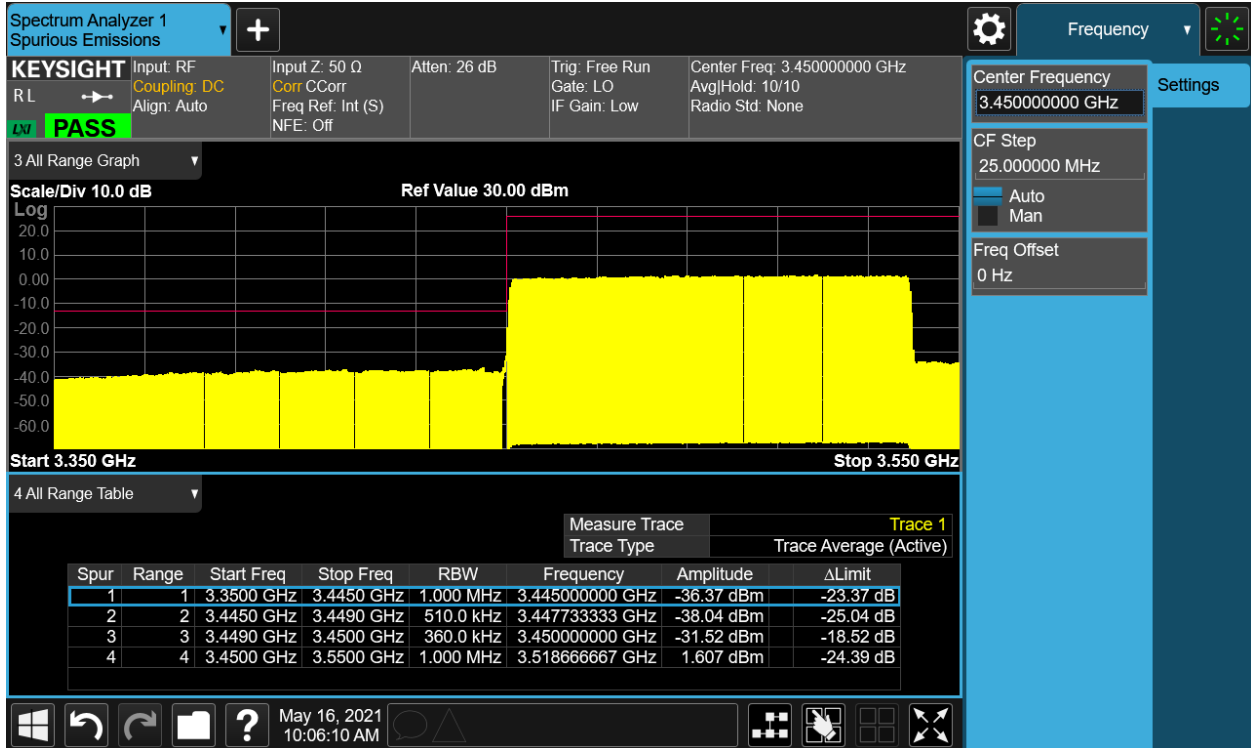
Plot 7-120. Upper Band Edge Plot (NR Band n77 PC2 - 20MHz DFT-s-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 87 of 161

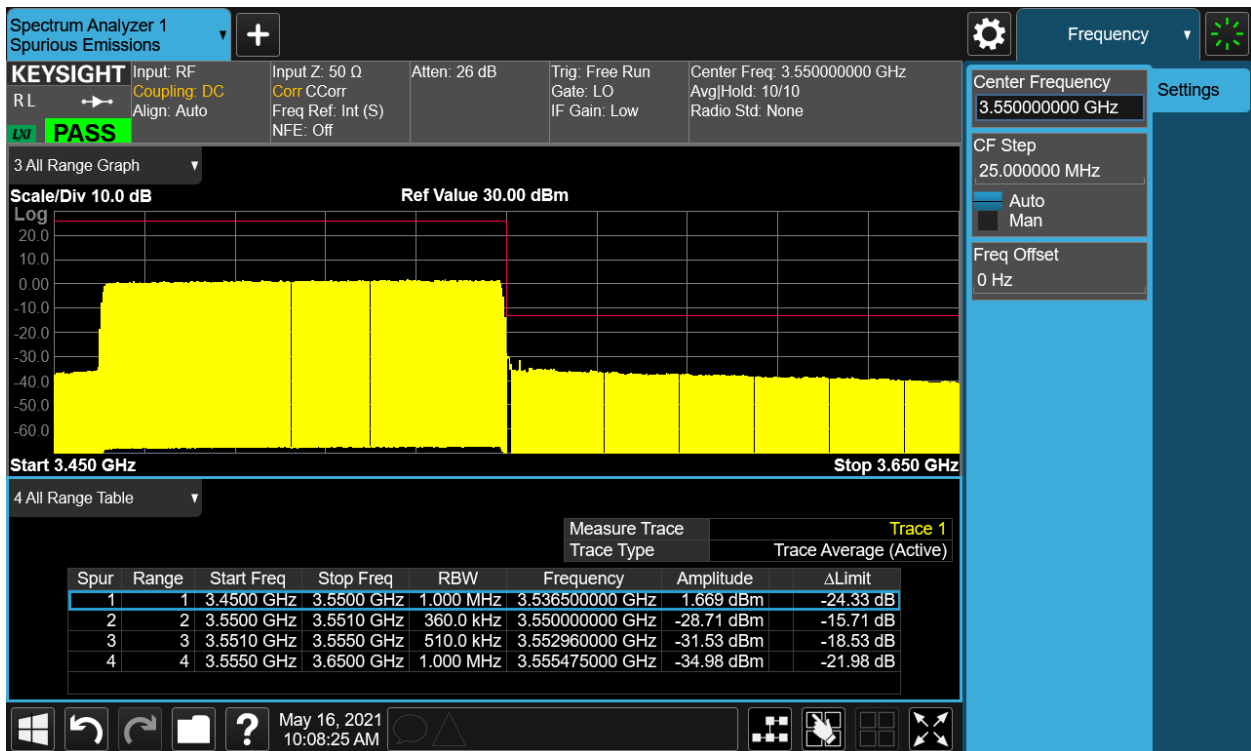
NR Band n77 (PC2) – DoD-Band – SRS-1



FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 88 of 161

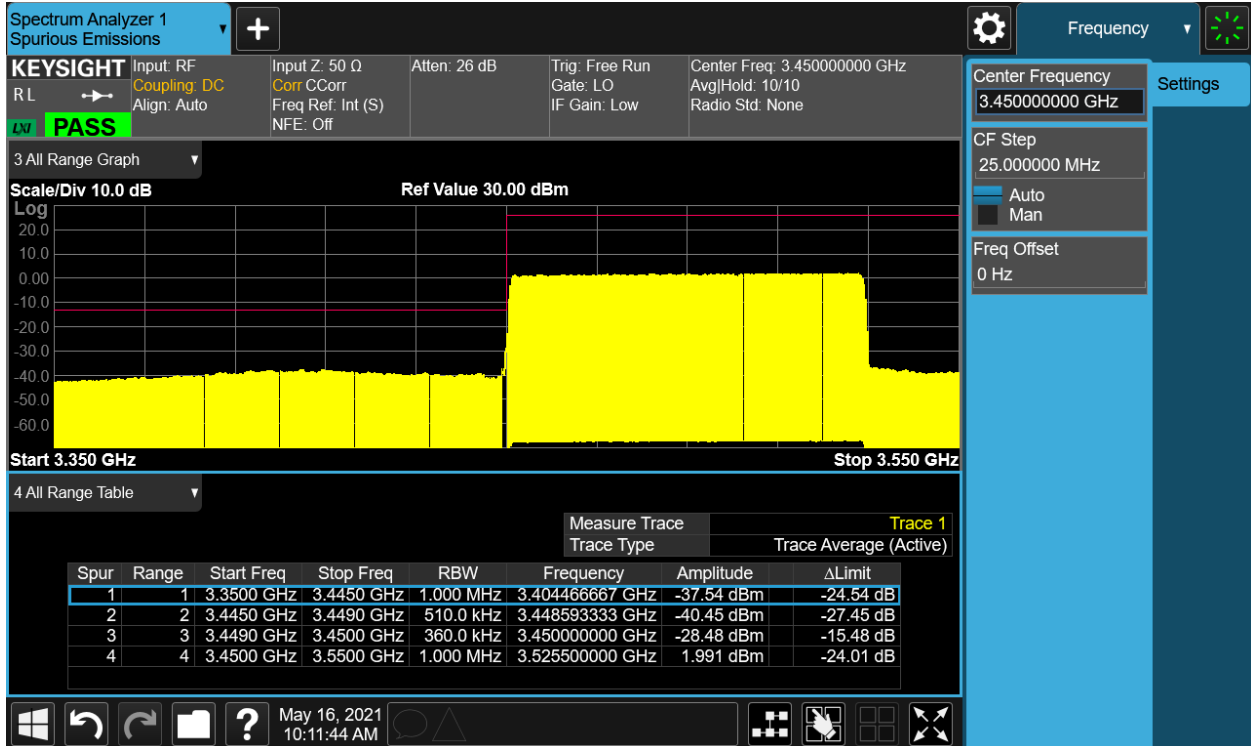


Plot 7-123. Lower Band Edge Plot (NR Band n77 PC2 - 90MHz CP-OFDM QPSK – Full RB Configuration)

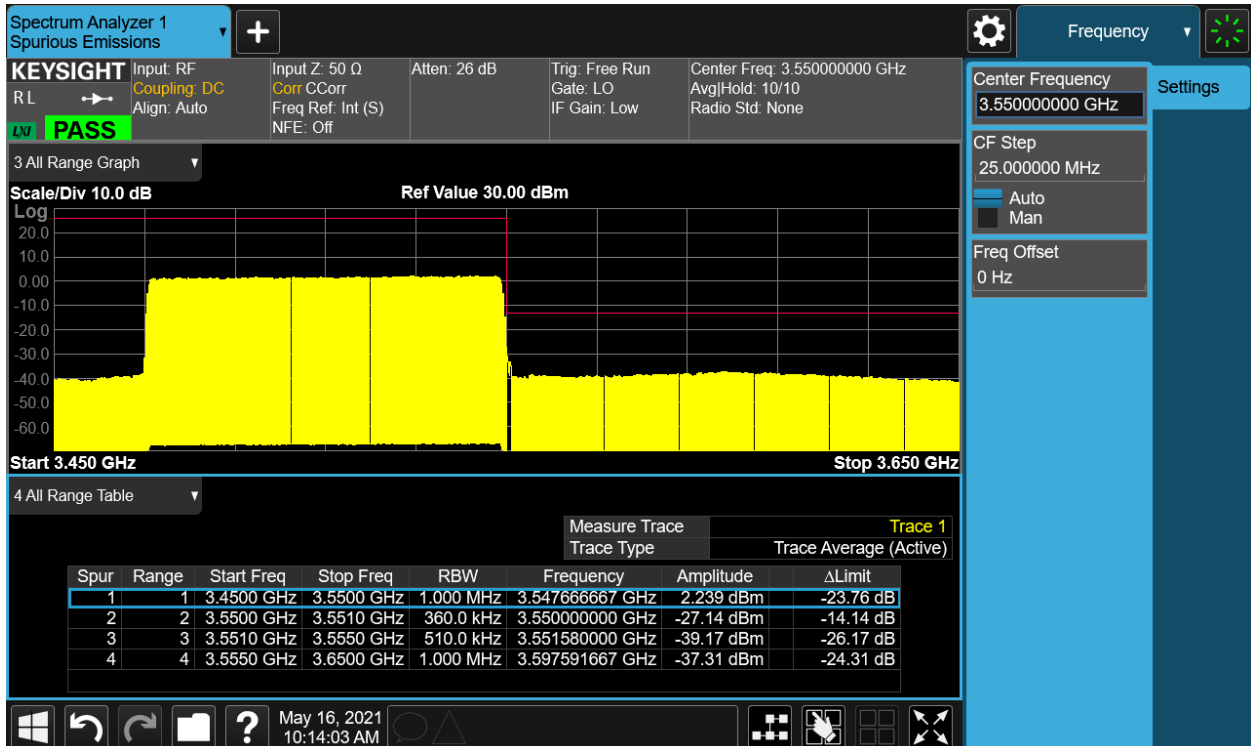


Plot 7-124. Upper Band Edge Plot (NR Band n77 PC2 - 90MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 89 of 161

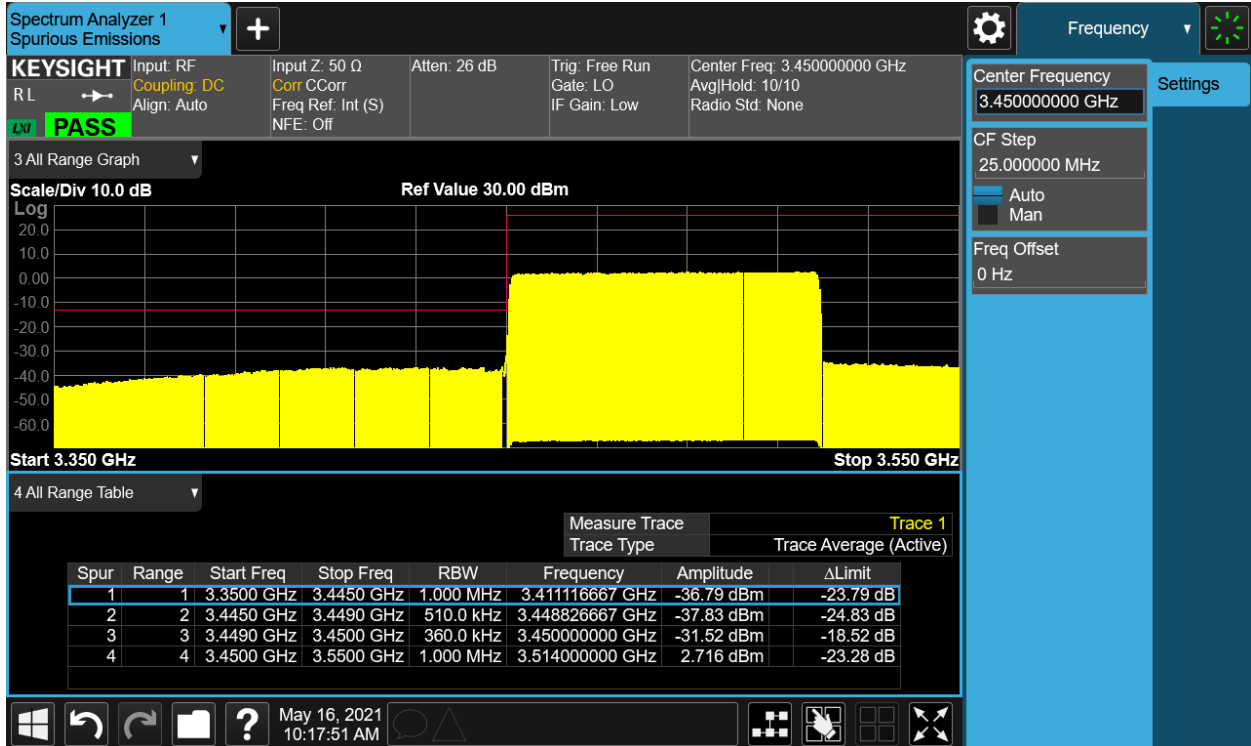


Plot 7-125. Lower Band Edge Plot (NR Band n77 PC2 - 80MHz CP-OFDM QPSK – Full RB Configuration)

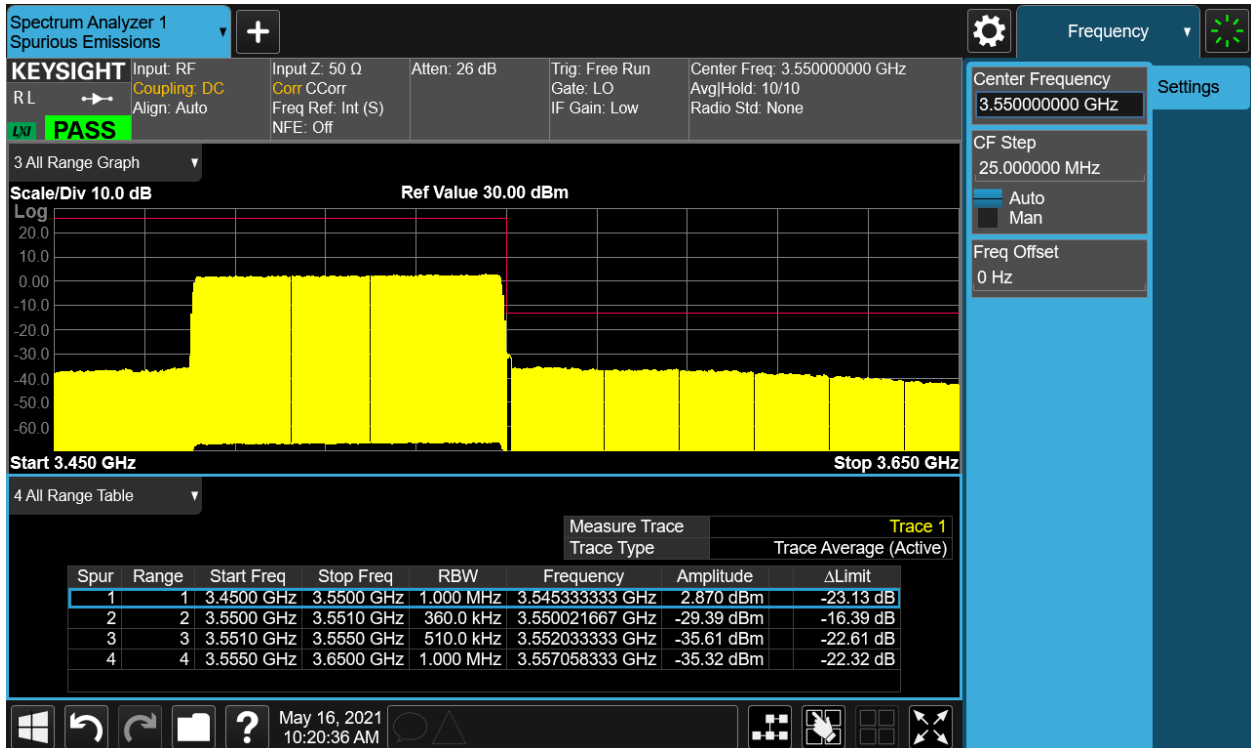


Plot 7-126. Upper Band Edge Plot (NR Band n77 PC2 - 80MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 90 of 161

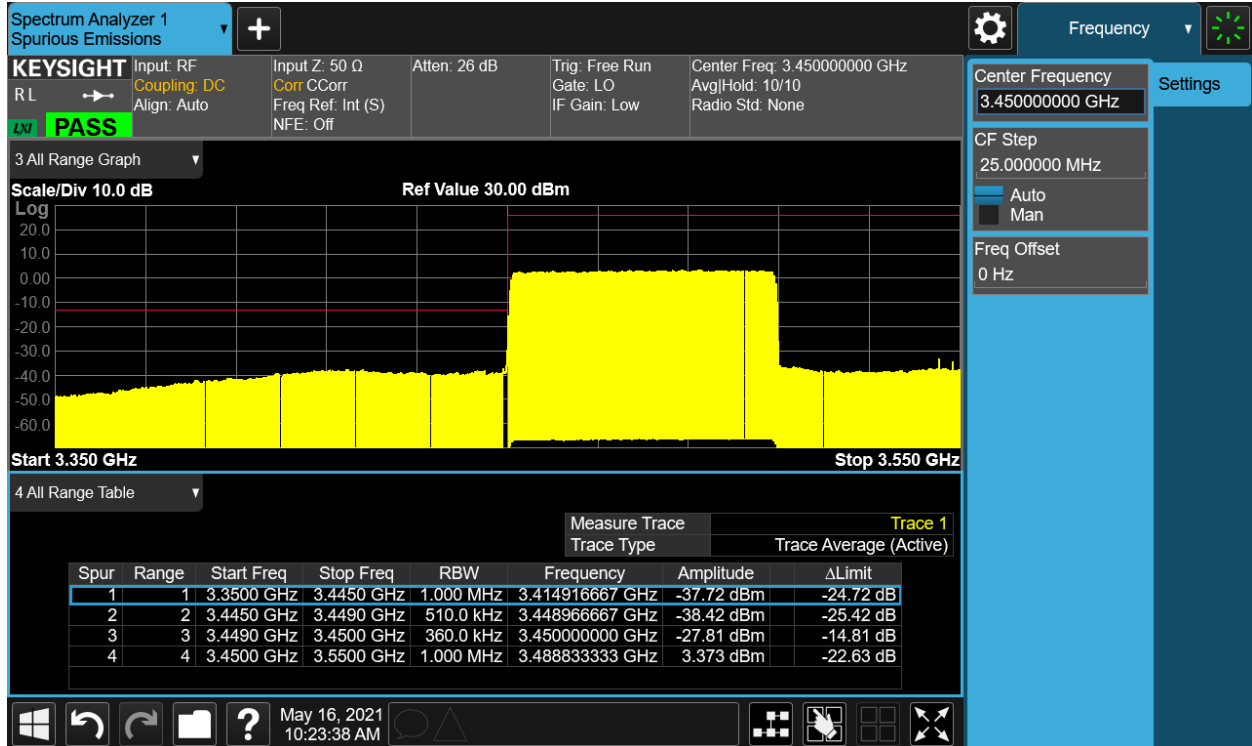


Plot 7-127. Lower Band Edge Plot (NR Band n77 PC2 - 70MHz CP-OFDM QPSK – Full RB Configuration)

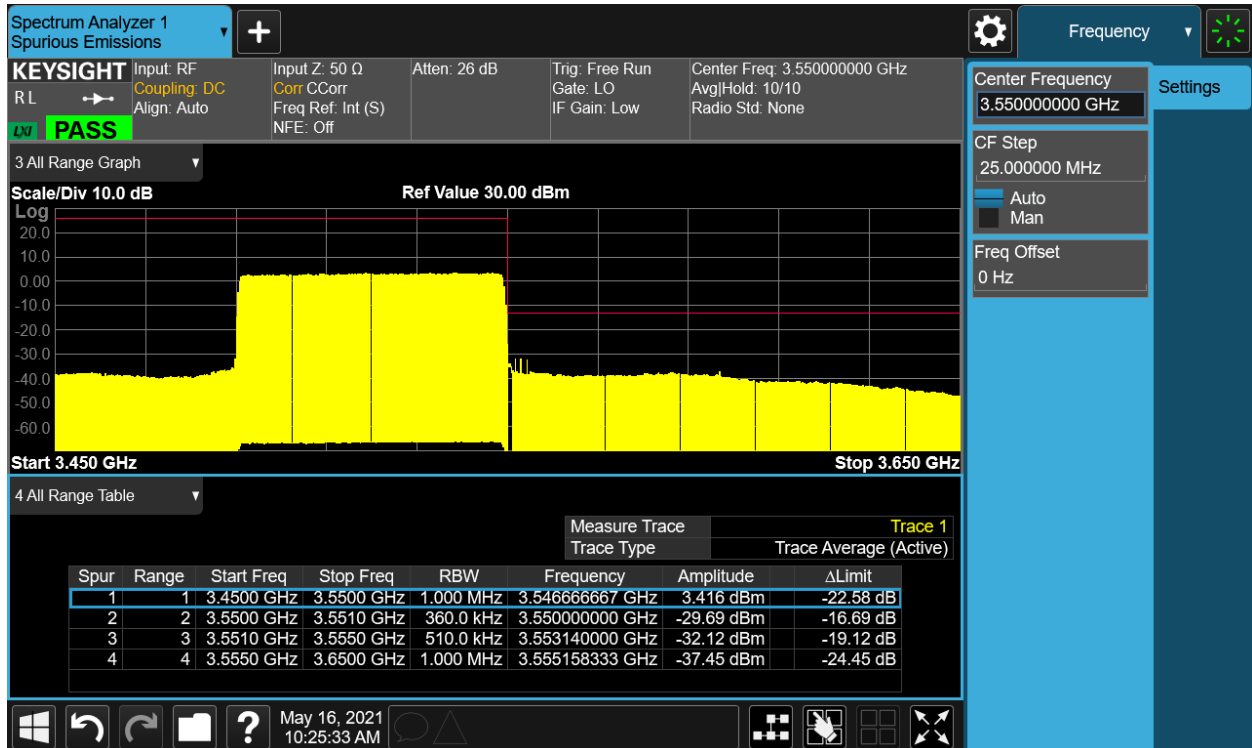


Plot 7-128. Upper Band Edge Plot (NR Band n77 PC2 - 70MHz CP-OFDM-QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 91 of 161

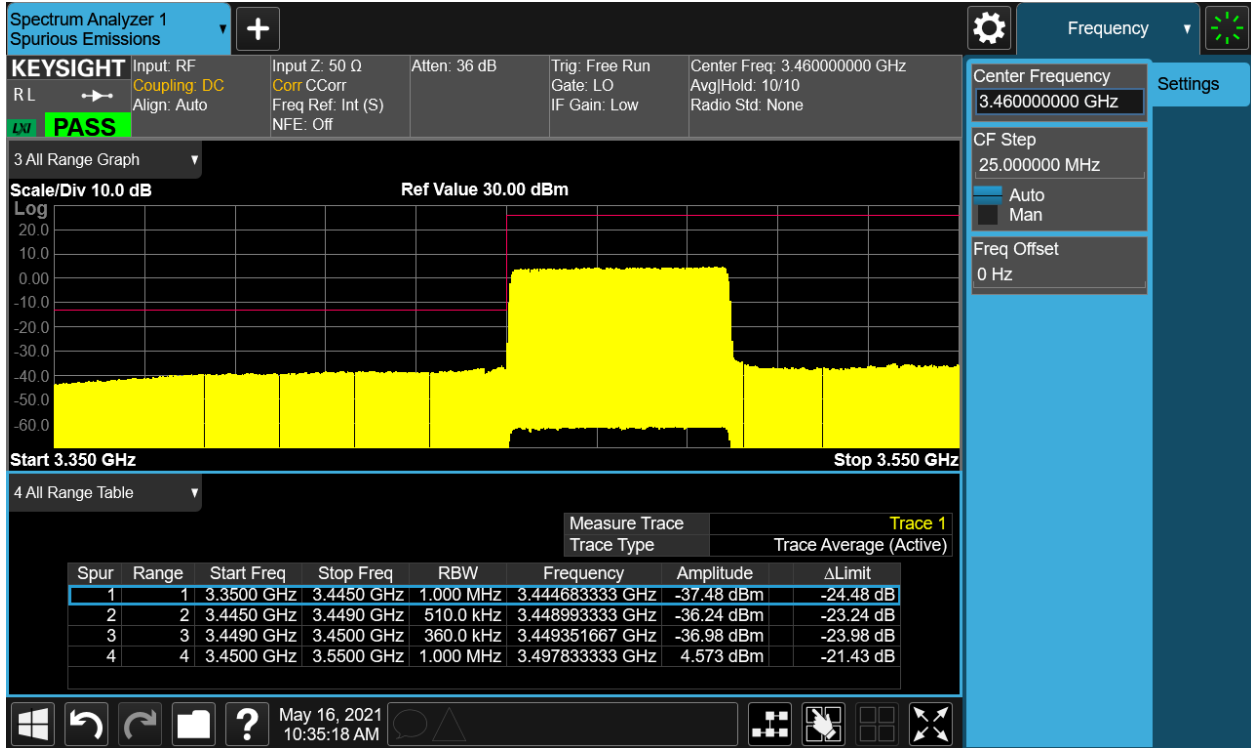


Plot 7-129. Lower Band Edge Plot (NR Band n77 PC2 - 60MHz CP-OFDM QPSK – Full RB Configuration)

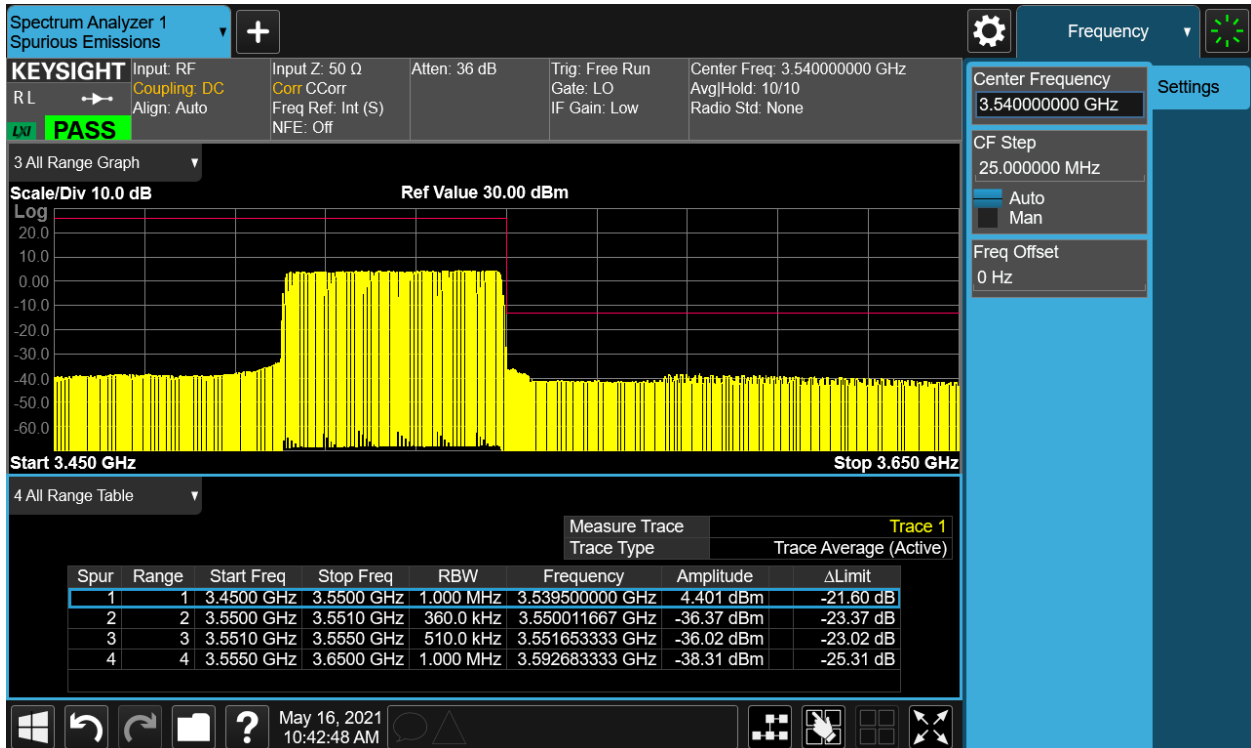


Plot 7-130. Upper Band Edge Plot (NR Band n77 PC2 - 60MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 92 of 161

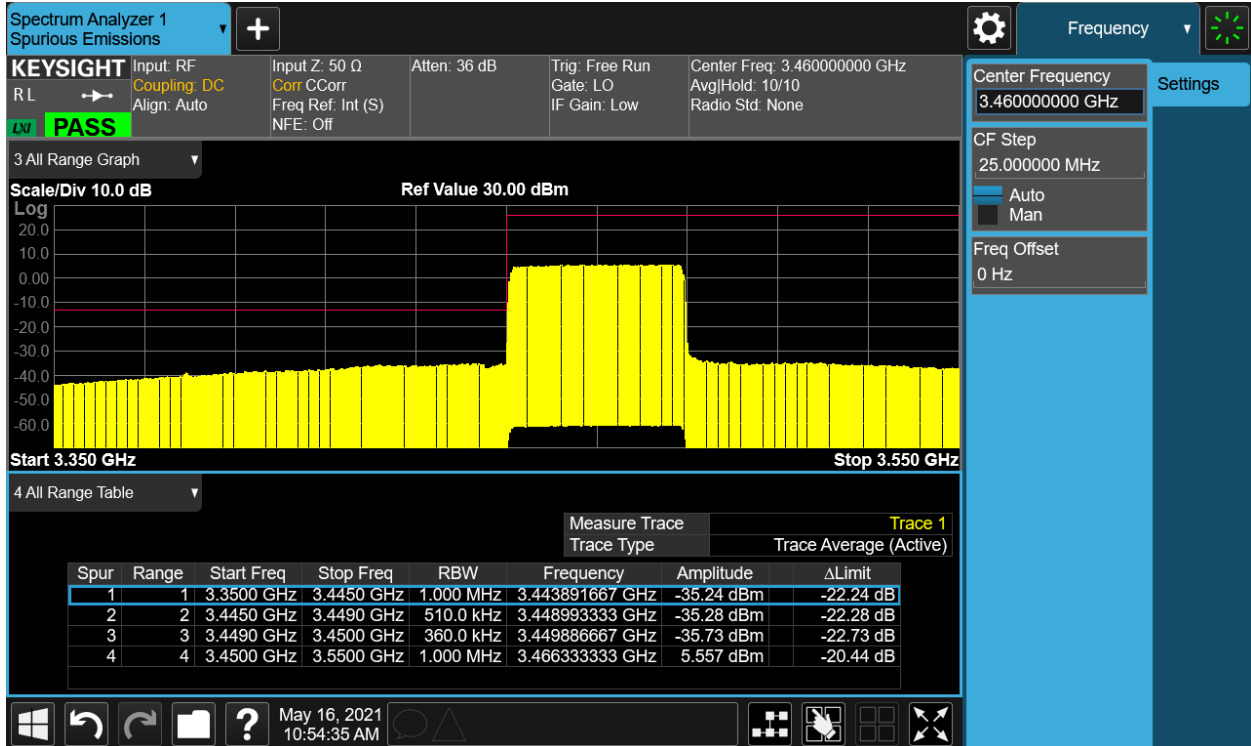


Plot 7-131. Lower Band Edge Plot (NR Band n77 PC2 - 50MHz CP-OFDM QPSK – Full RB Configuration)

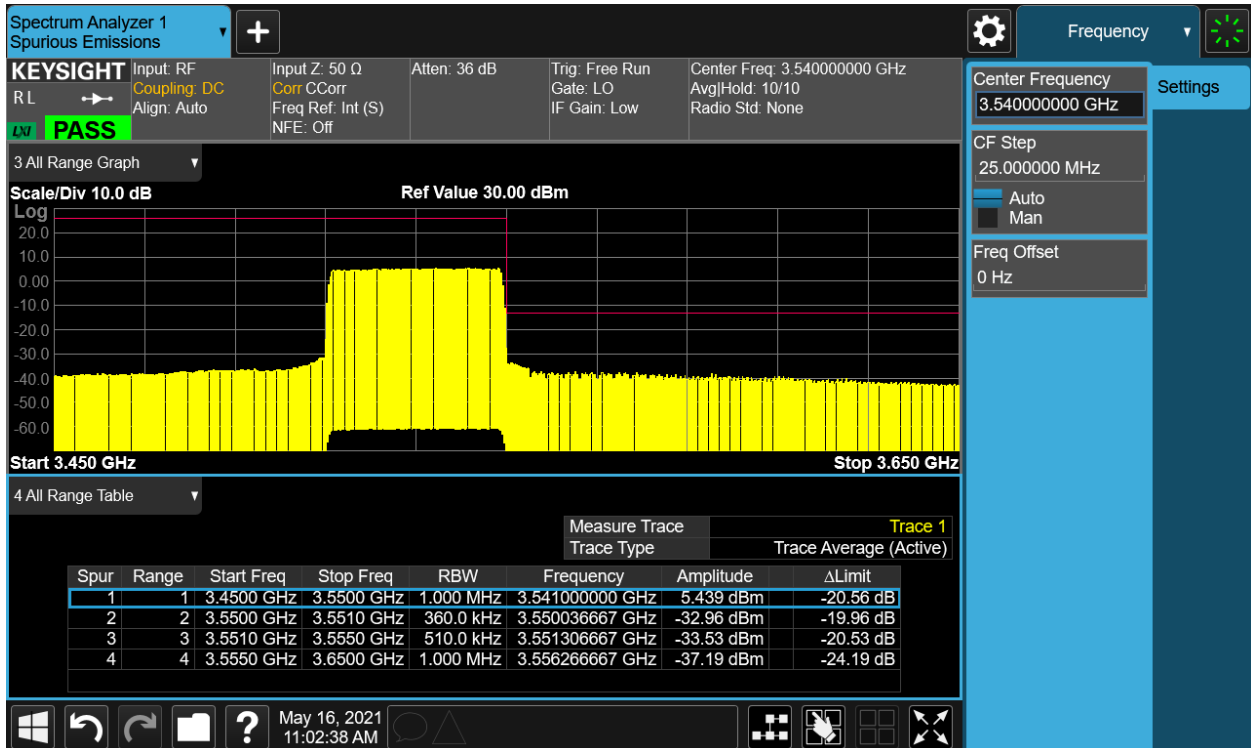


Plot 7-132. Upper Band Edge Plot (NR Band n77 PC2 - 50MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 93 of 161

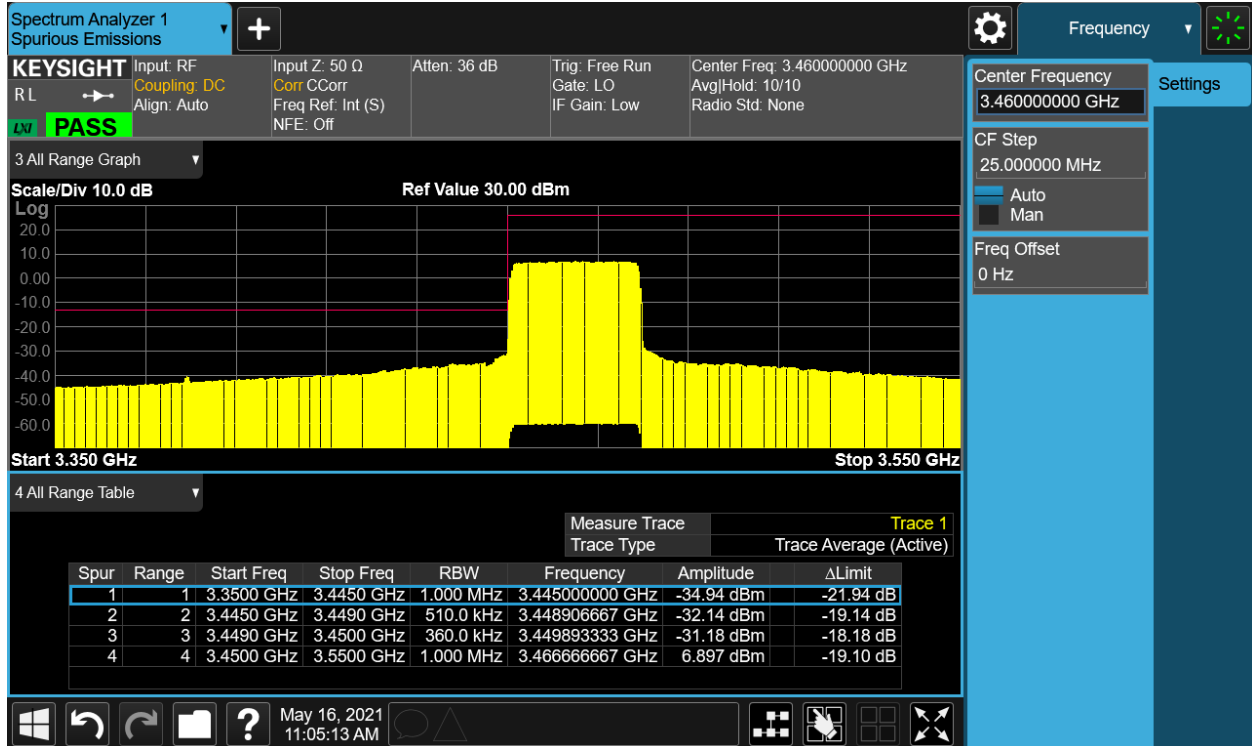


Plot 7-133. Lower Band Edge Plot (NR Band n77 PC2 - 40MHz CP-OFDM QPSK – Full RB Configuration)

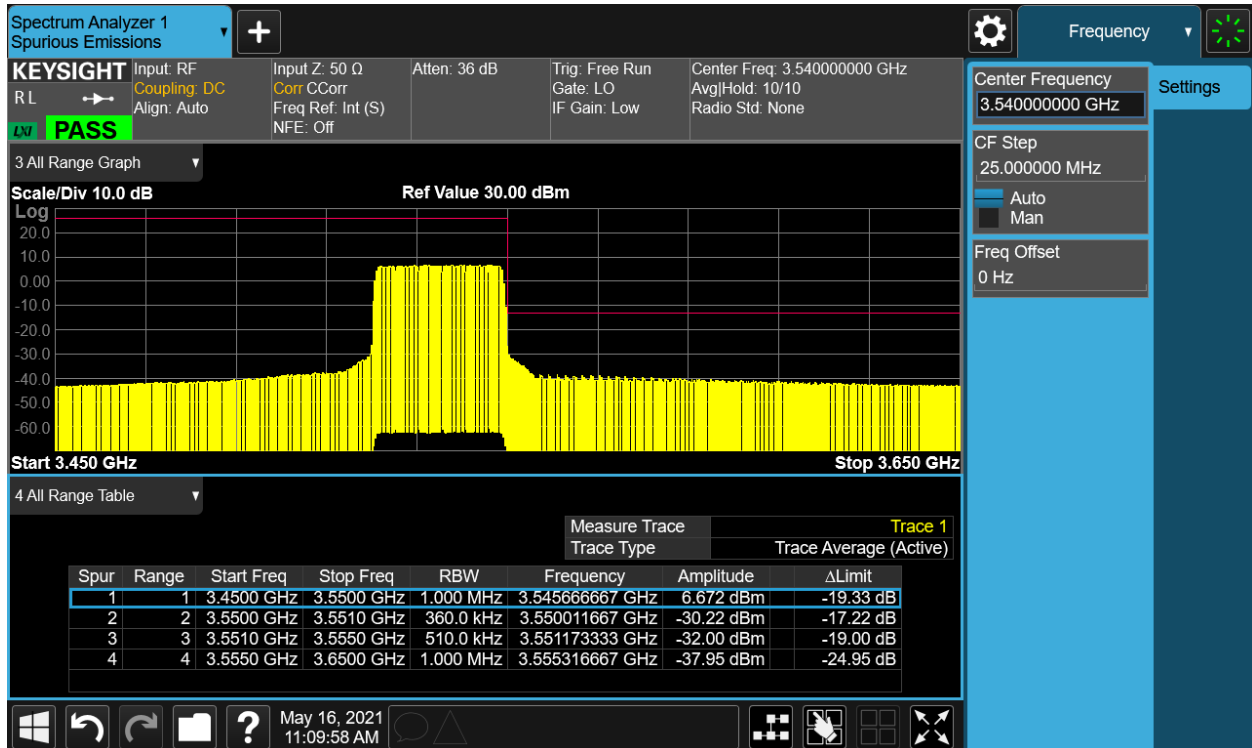


Plot 7-134. Upper Band Edge Plot (NR Band n77 PC2 - 40MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 94 of 161

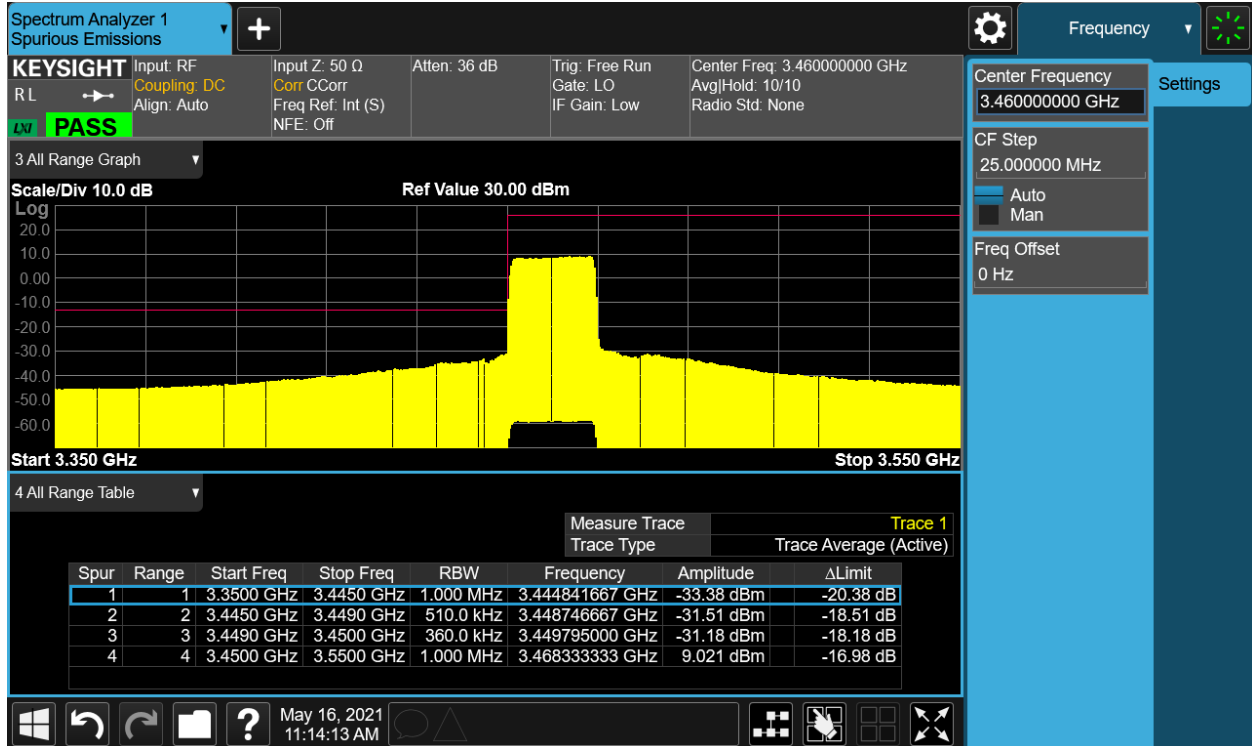


Plot 7-135. Lower Band Edge Plot (NR Band n77 PC2 - 30MHz CP-OFDM QPSK – Full RB Configuration)

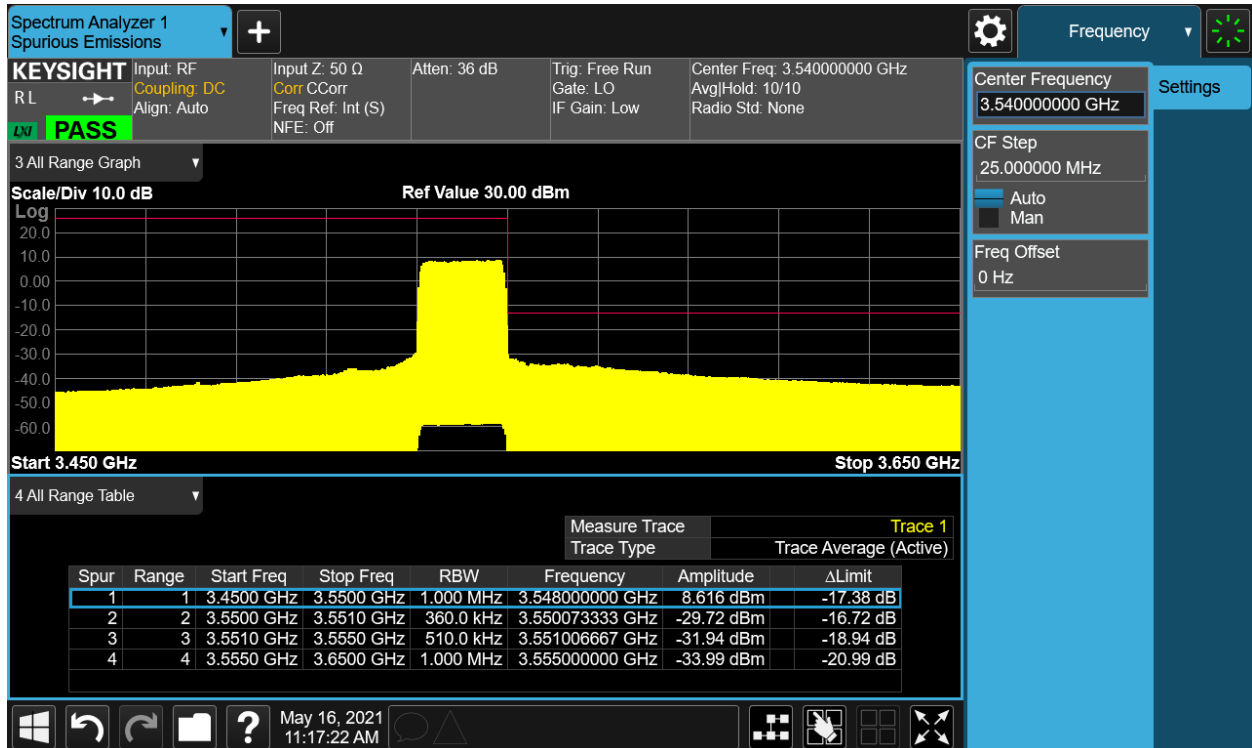


Plot 7-136. Upper Band Edge Plot (NR Band n77 PC2 - 30MHz CP-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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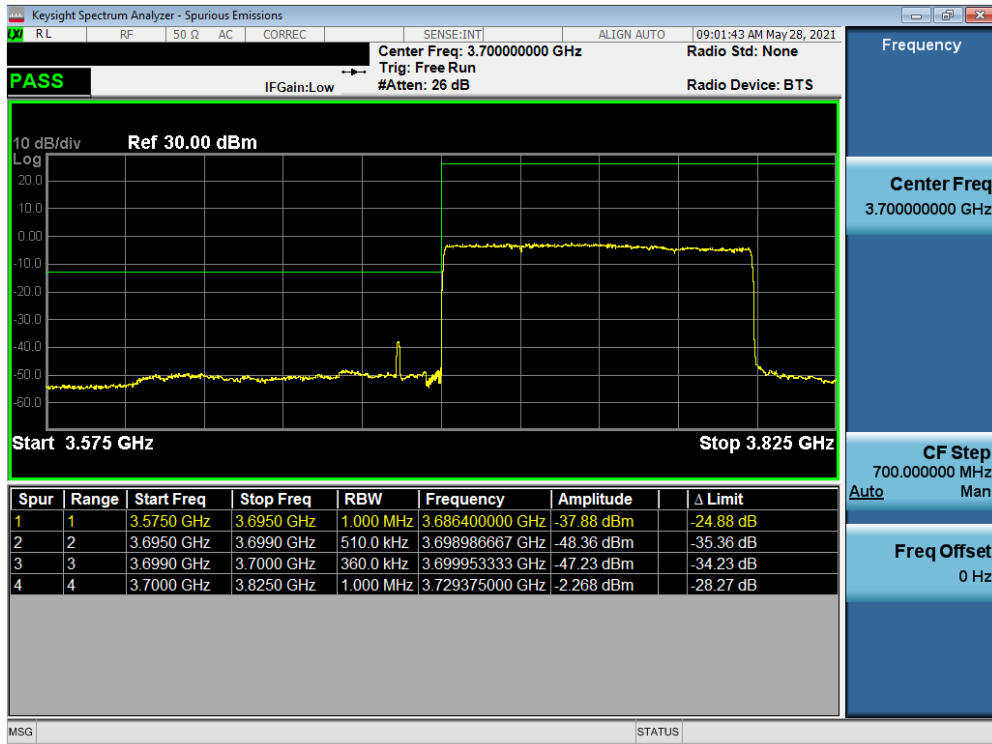
Plot 7-137. Lower Band Edge Plot (NR Band n77 PC2 - 20MHz CP-OFDM QPSK – Full RB Configuration)



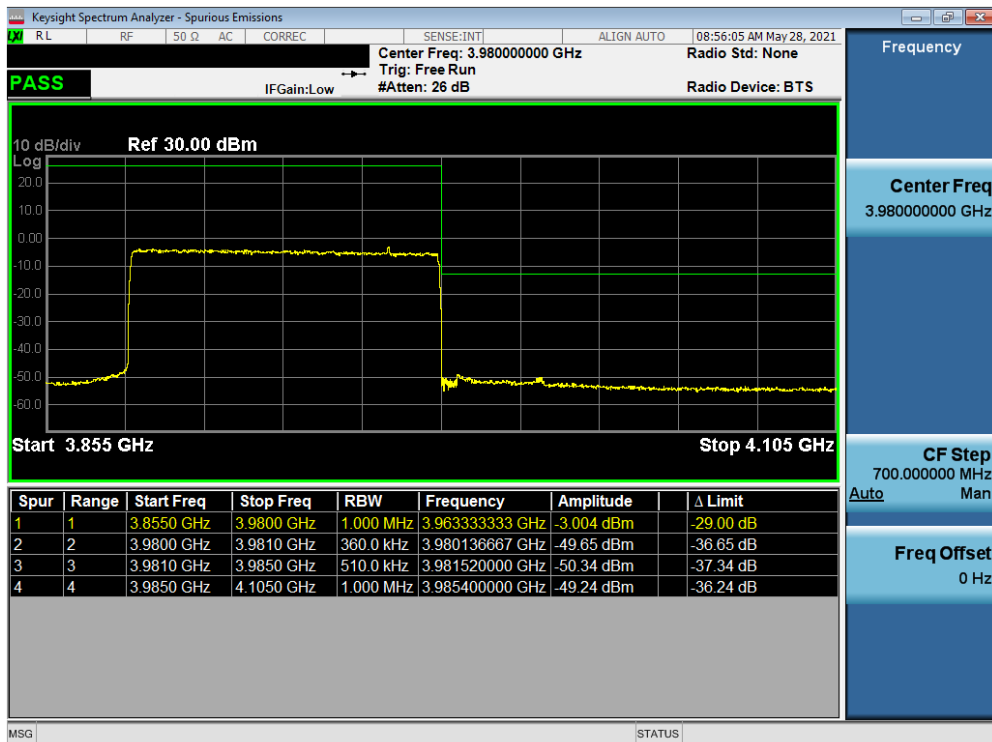
Plot 7-138. Upper Band Edge Plot (NR Band n77 PC2 - 20MHz CP-OFDM QPSK – Full RB Configuration)

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 n77 (PC2) – C-Band – SRS-2



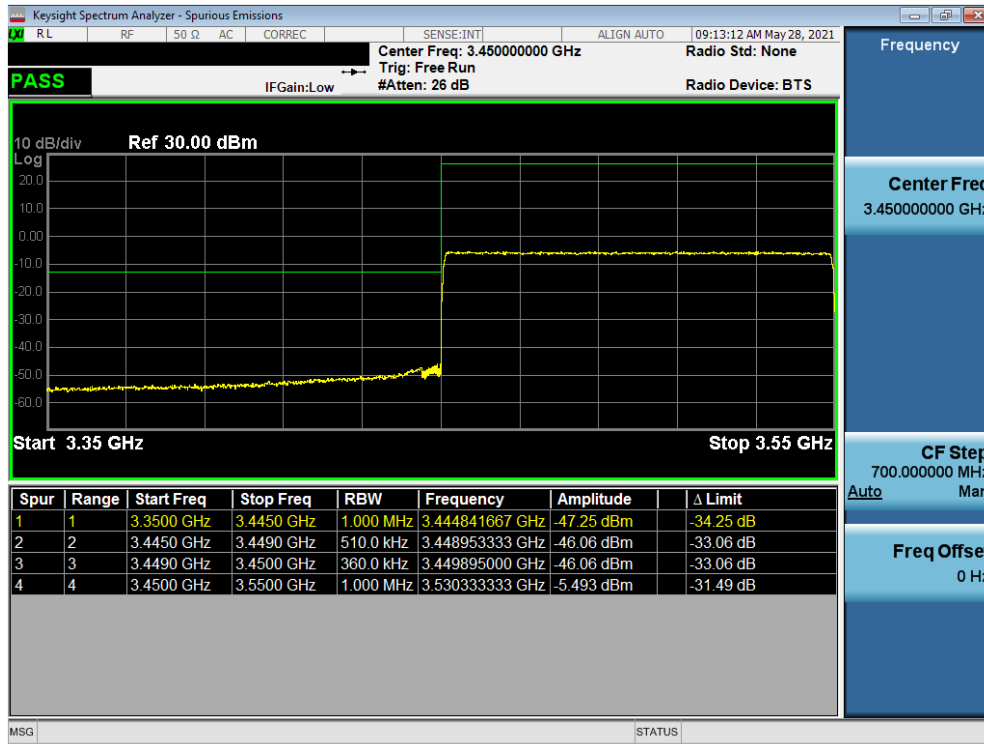
Plot 7-139. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)



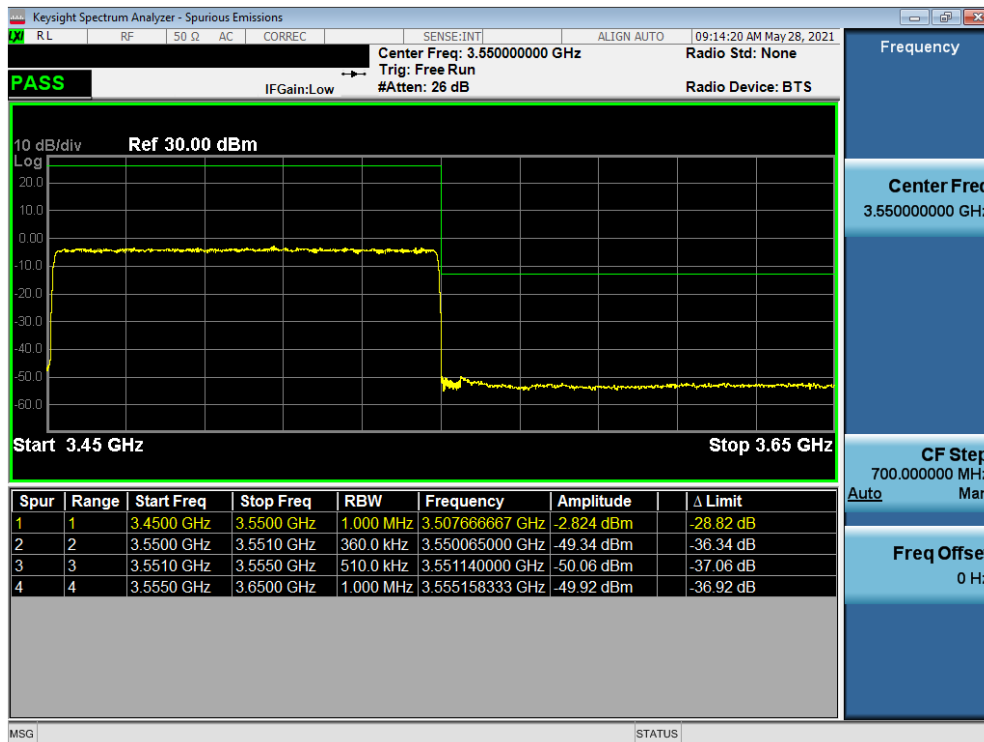
Plot 7-140. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)

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 n77 (PC2) – DoD-Band – SRS-2



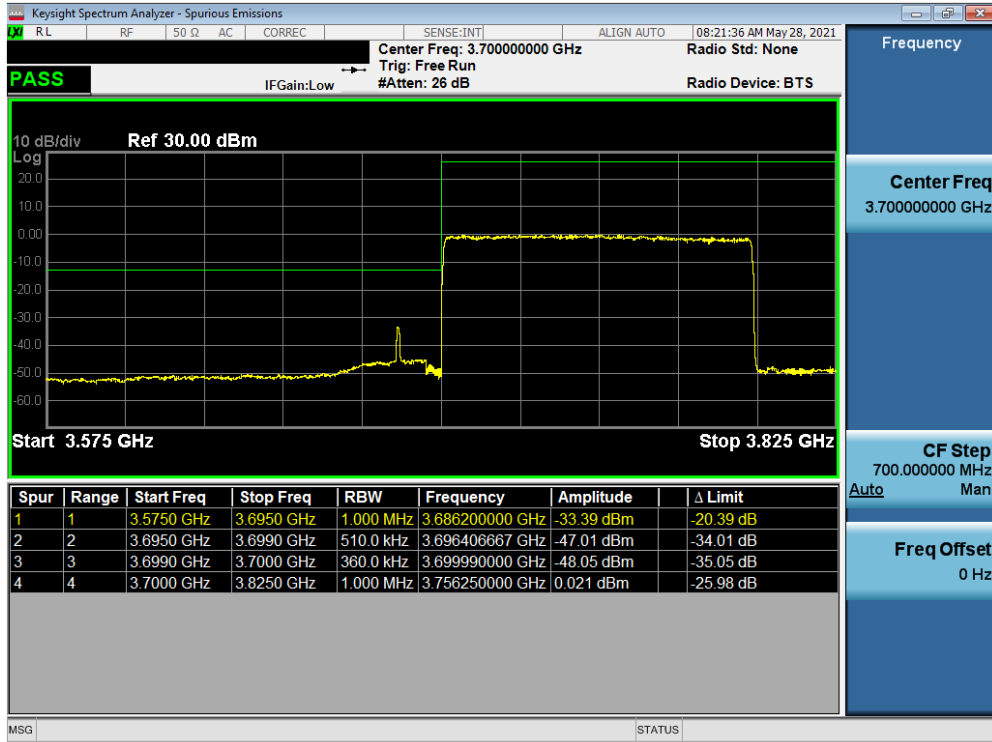
Plot 7-141. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)



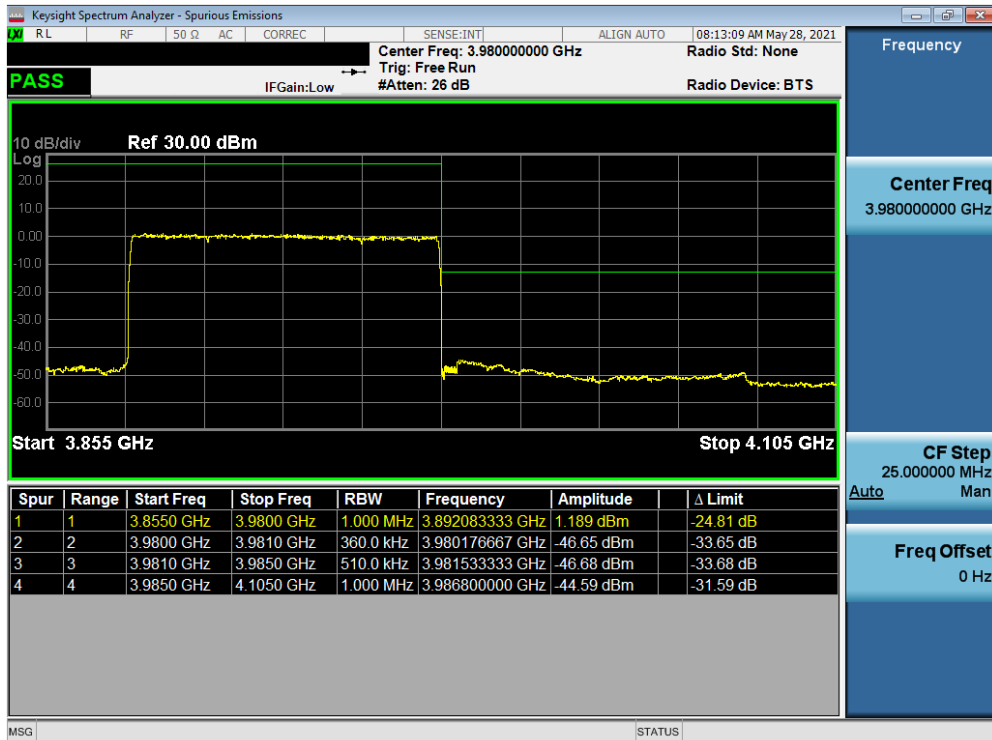
Plot 7-142. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)

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 n77 (PC2) – C-Band – SRS-3



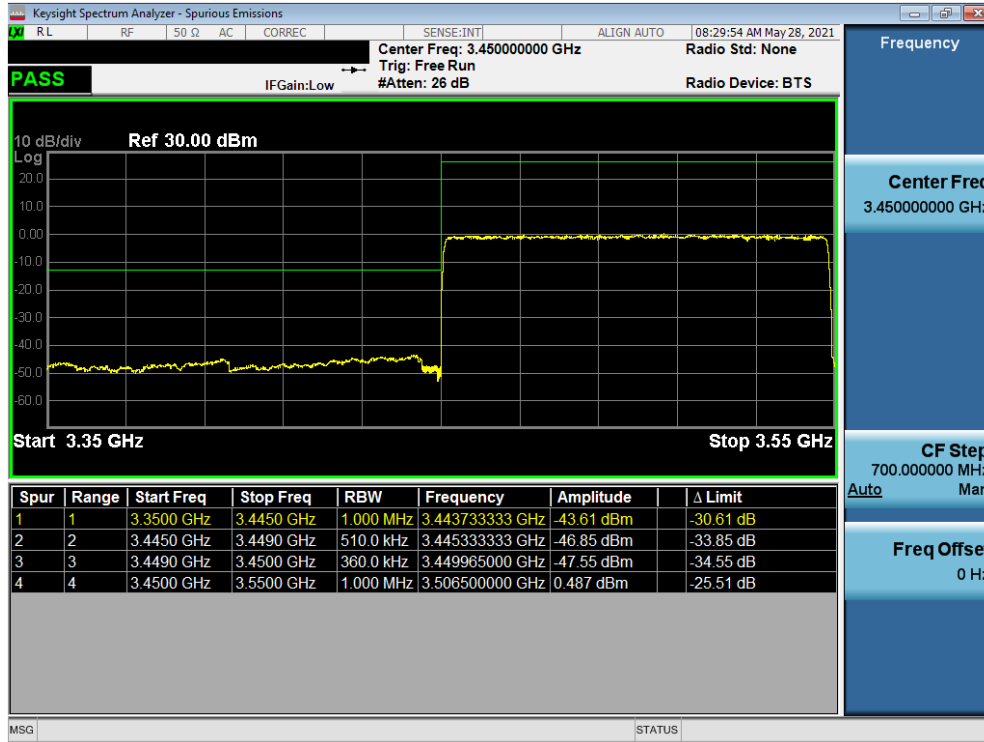
Plot 7-143. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)



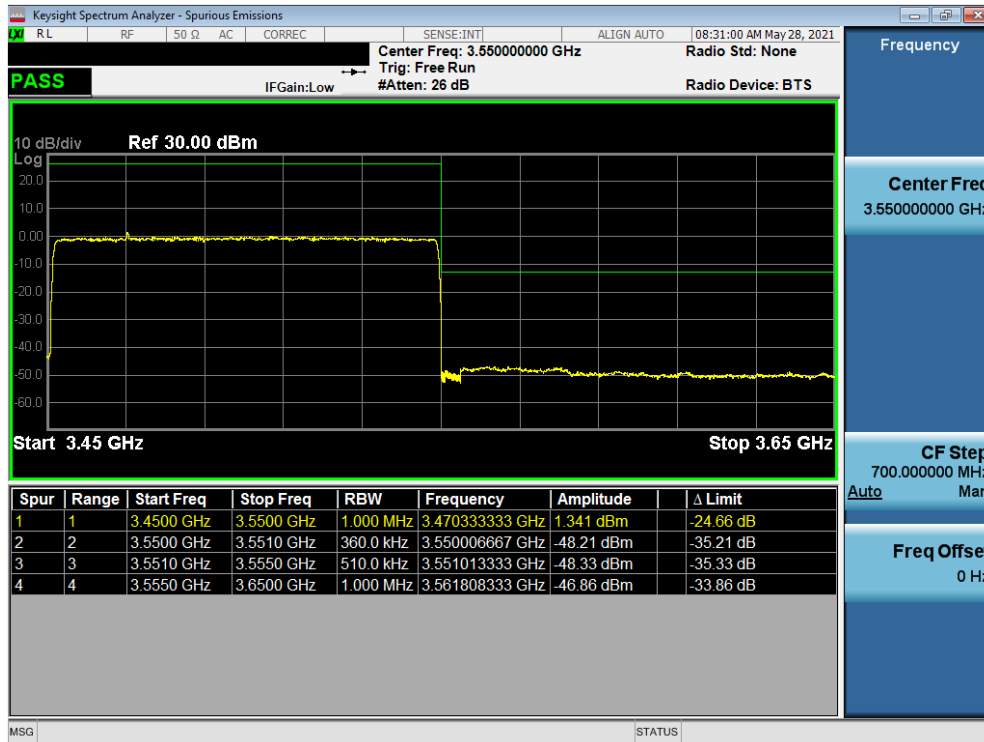
Plot 7-144. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)

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 n77 (PC2) – DoD-Band – SRS-3



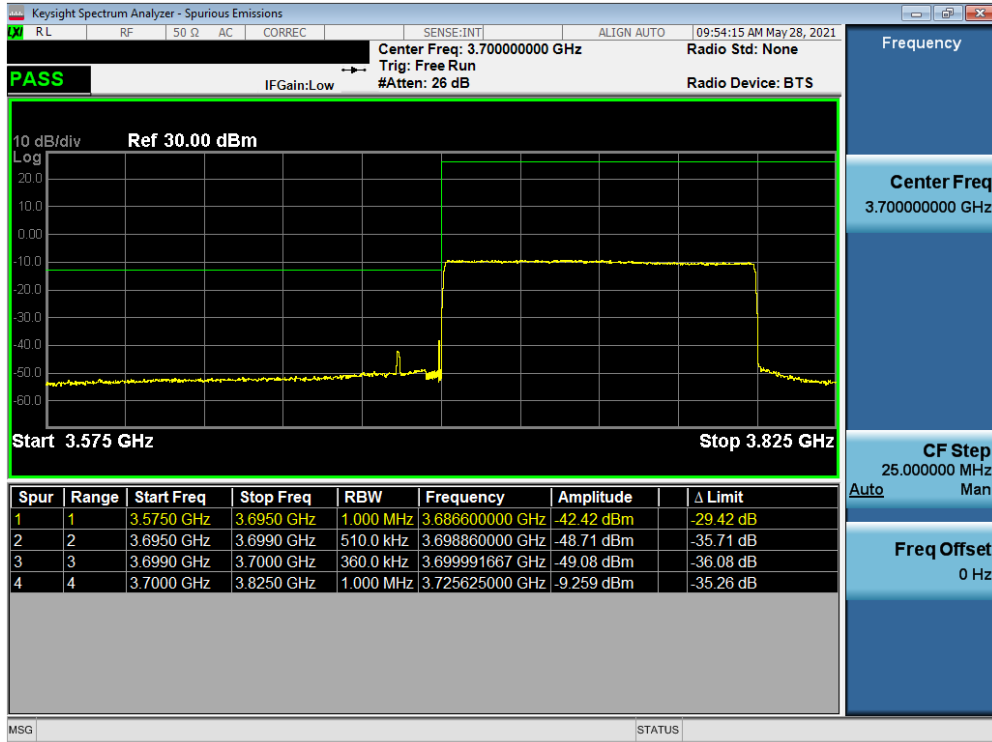
Plot 7-145. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)



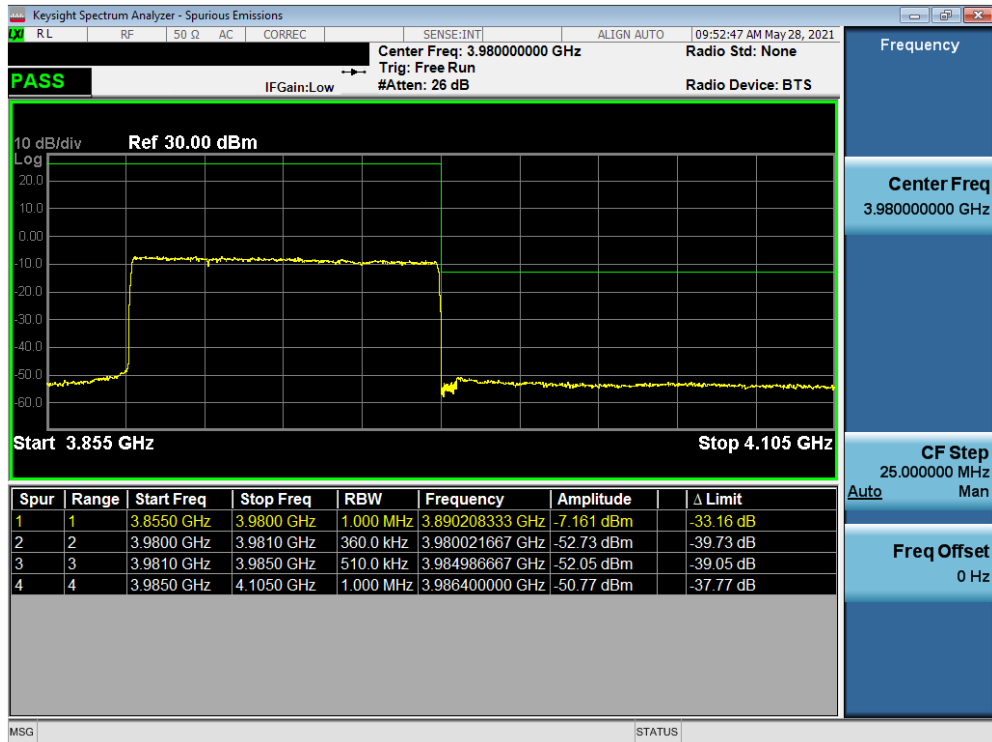
Plot 7-146. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)

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 n77 (PC2) – C-Band – SRS-4



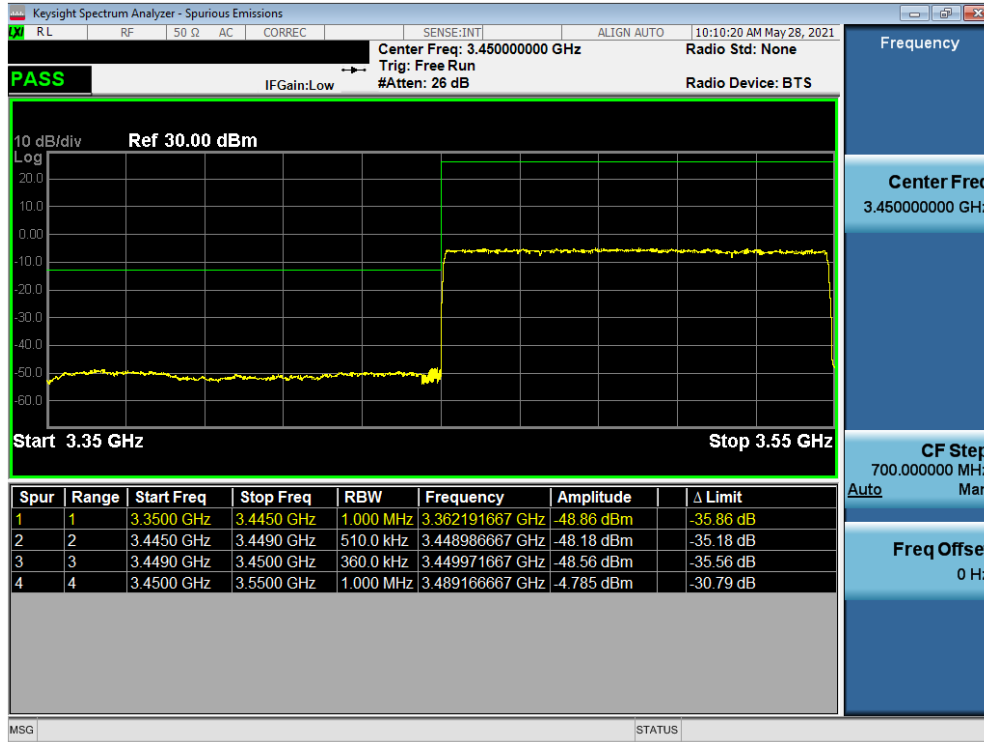
Plot 7-147. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)



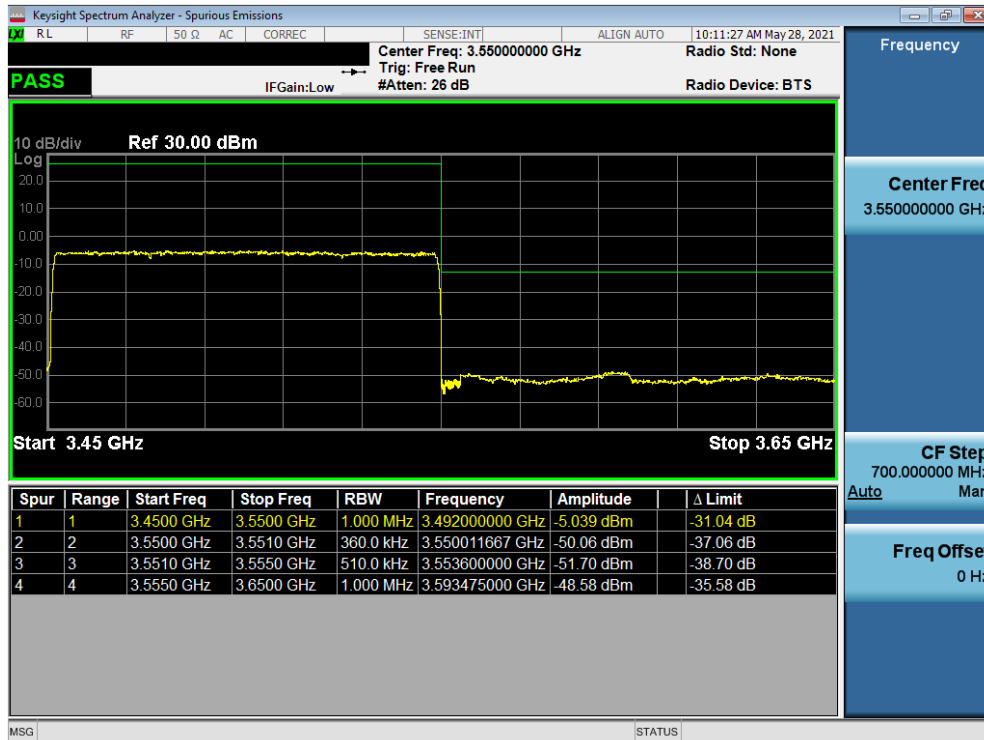
Plot 7-148. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)

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 n77 (PC2) – DoD-Band – SRS-4



Plot 7-149. Lower Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)



Plot 7-150. Upper Band Edge Plot (NR Band n77 PC2 - 100MHz DFT-s-OFDM QPSK – Full RB Configuration)

FCC ID: A3LSMF711U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		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.



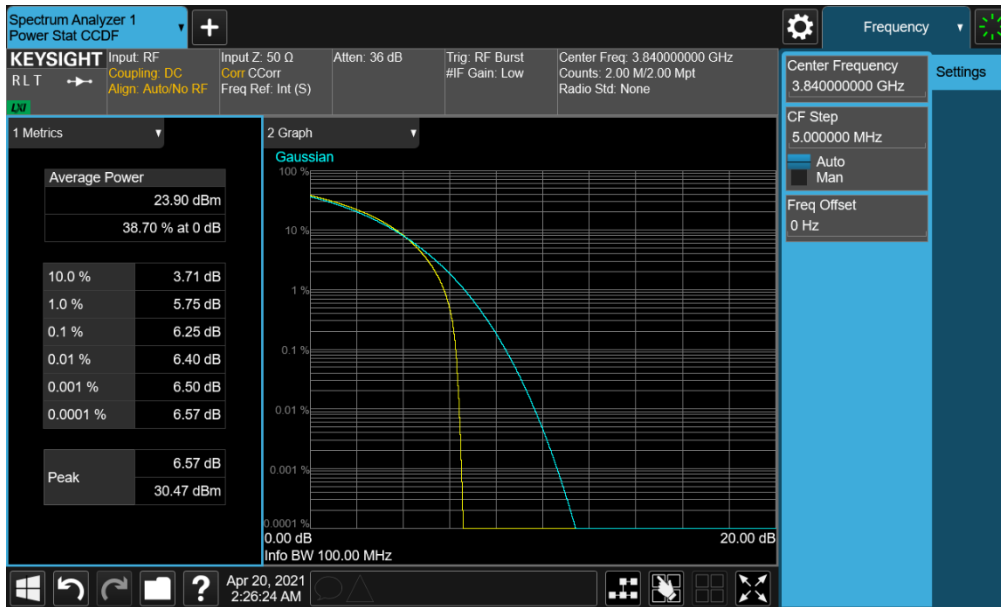
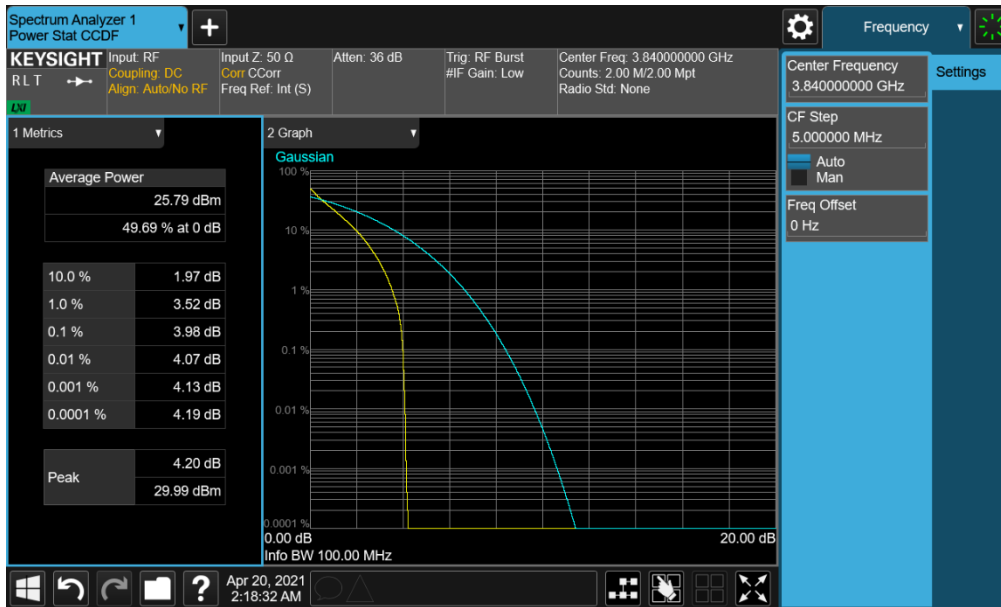
Figure 7-5. Test Instrument & Measurement Setup

Test Notes

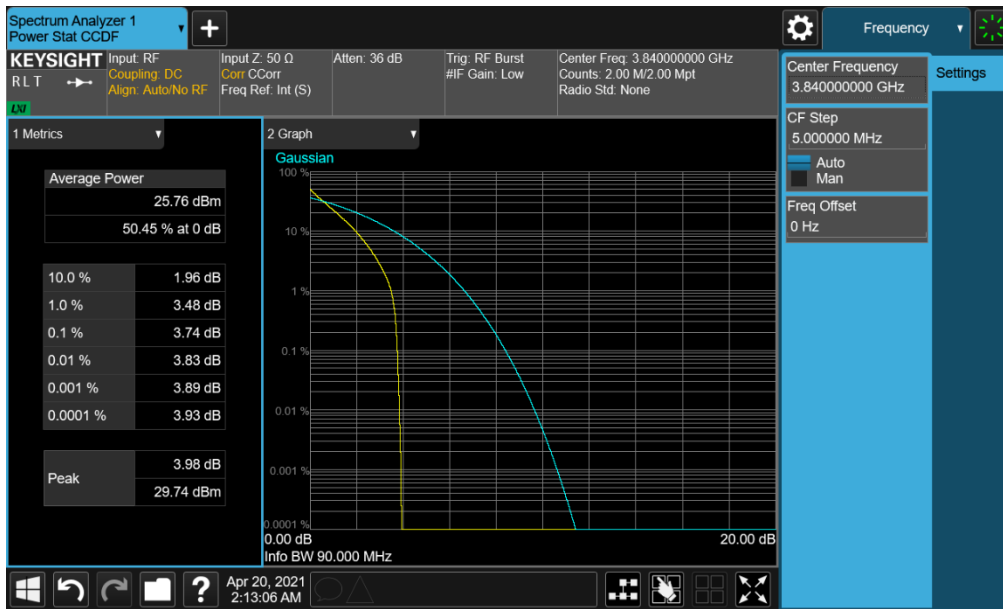
- 1) The Peak to Average Ratio was only measured on the antenna with the highest conducted power for each band (SRS-1).

FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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