


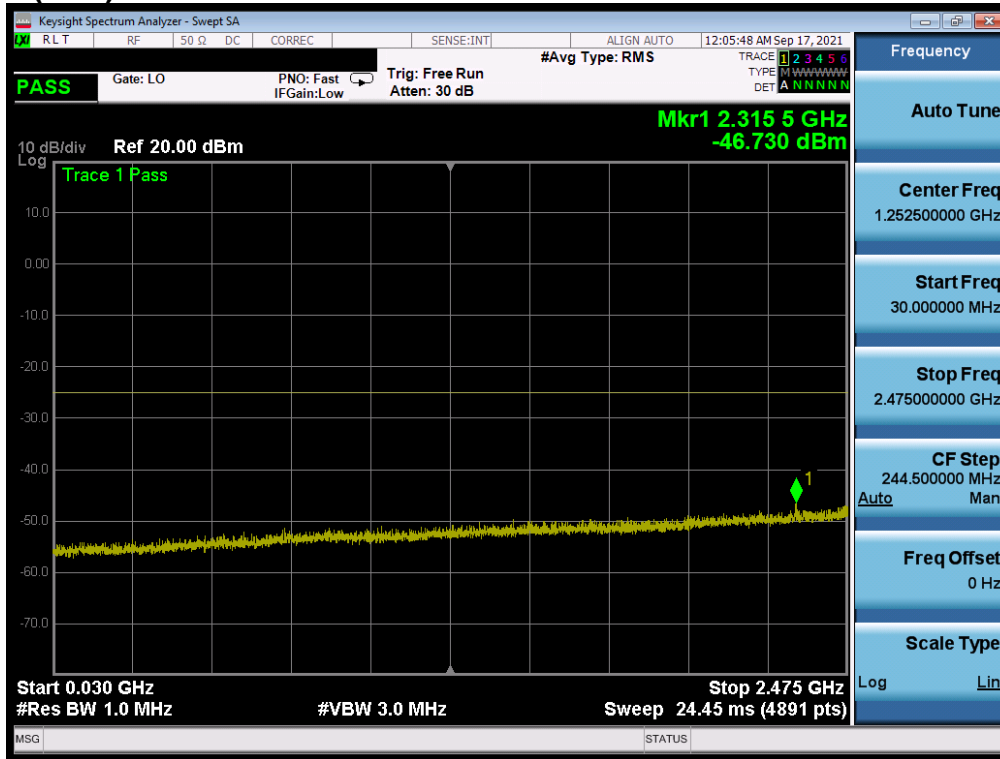


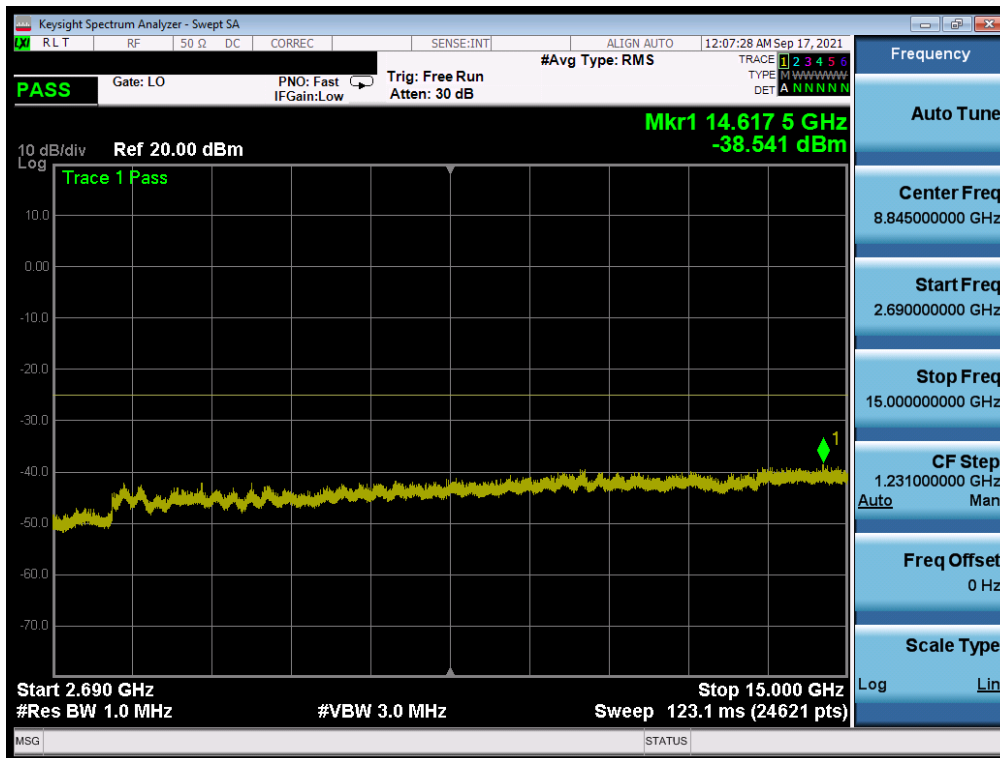
Plot 7-110. Conducted Spurious Plot (LTE Band 7 – 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 80 of 242

## LTE Band 41(PC2)



Plot 7-111. Conducted Spurious Plot (LTE Band 41(PC2) – 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)



Plot 7-112. Conducted Spurious Plot (LTE Band 41(PC2) – 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 81 of 242

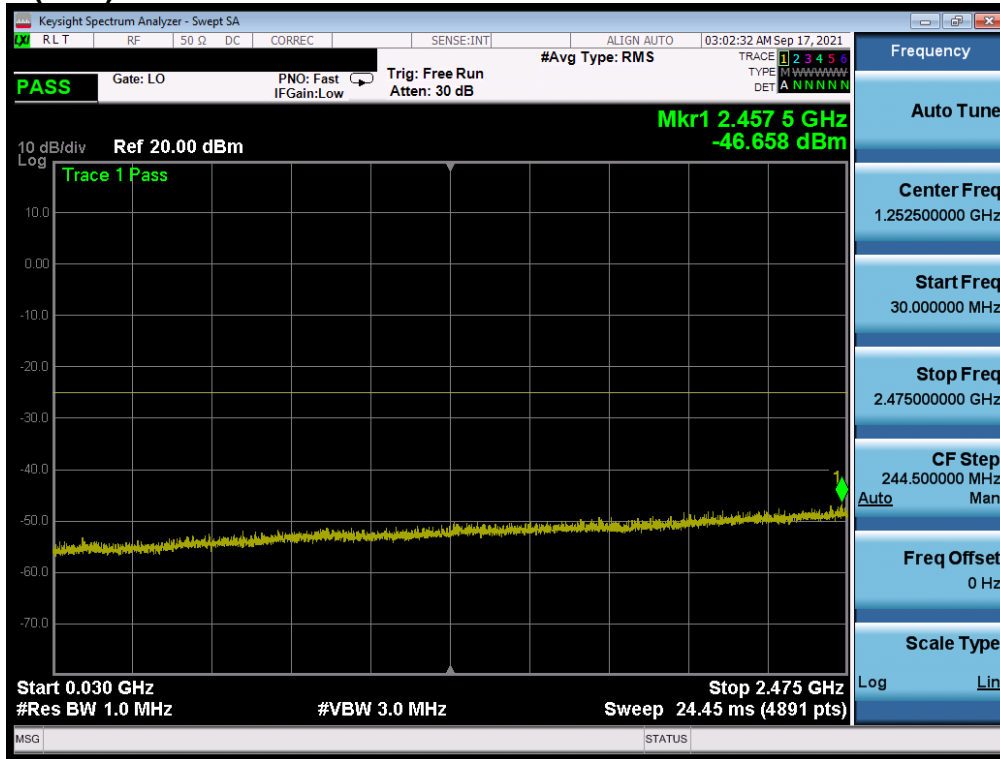




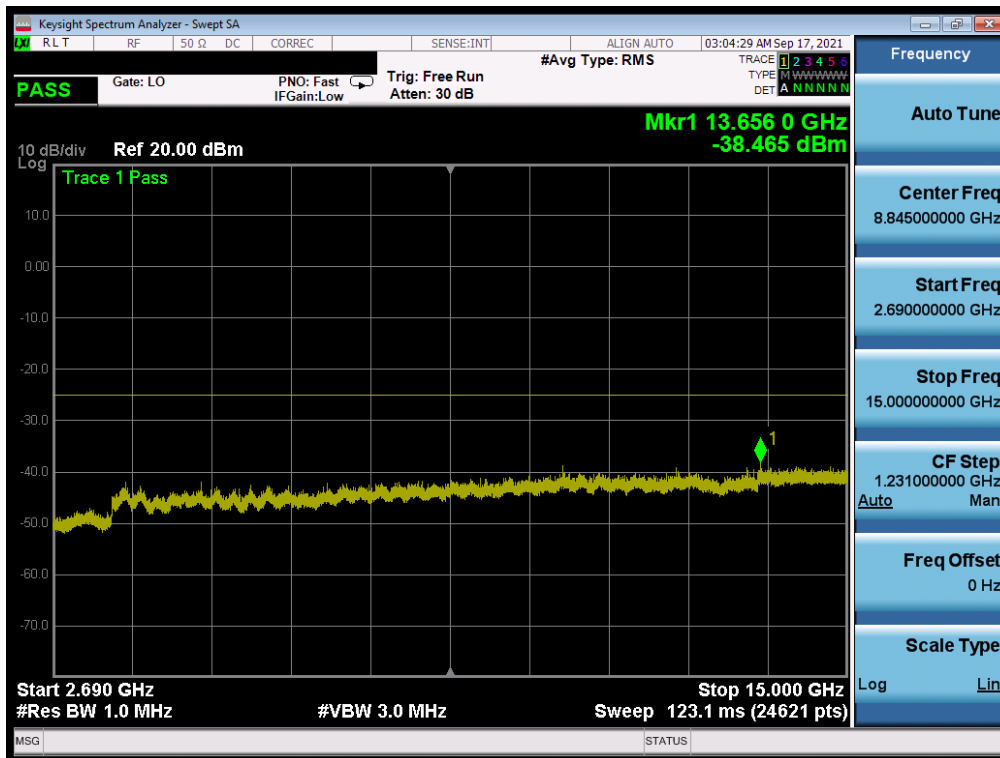




### LTE Band 41(PC3)/38



Plot 7-120. Conducted Spurious Plot (LTE Band 41(PC3)/38 – 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

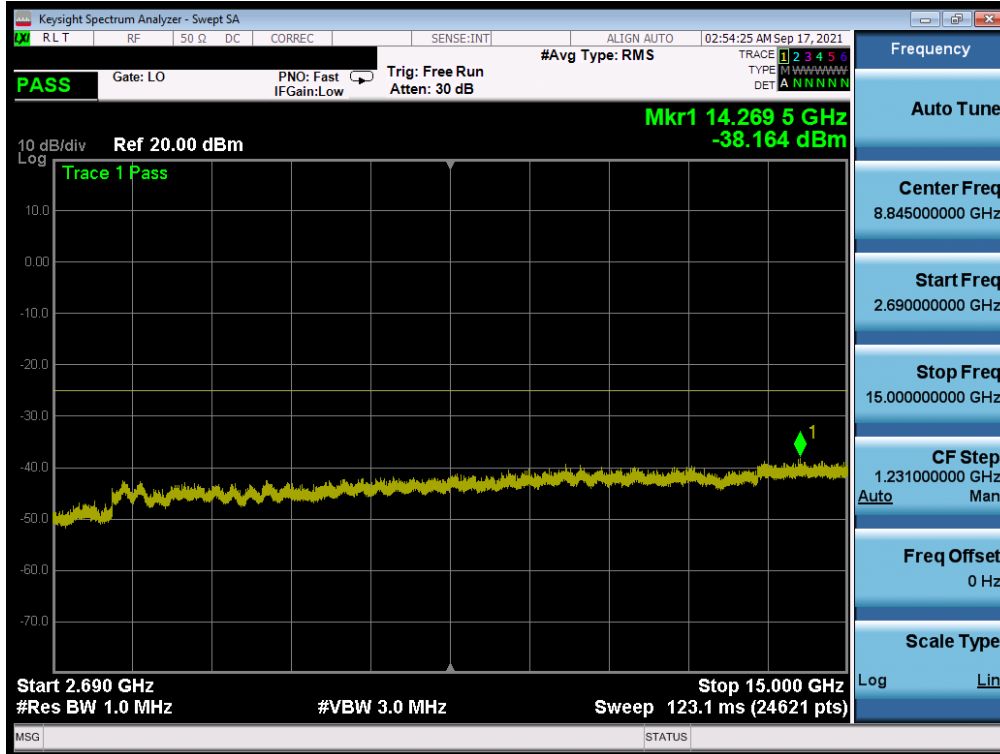


Plot 7-121. Conducted Spurious Plot (LTE Band 41(PC3)/38 – 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

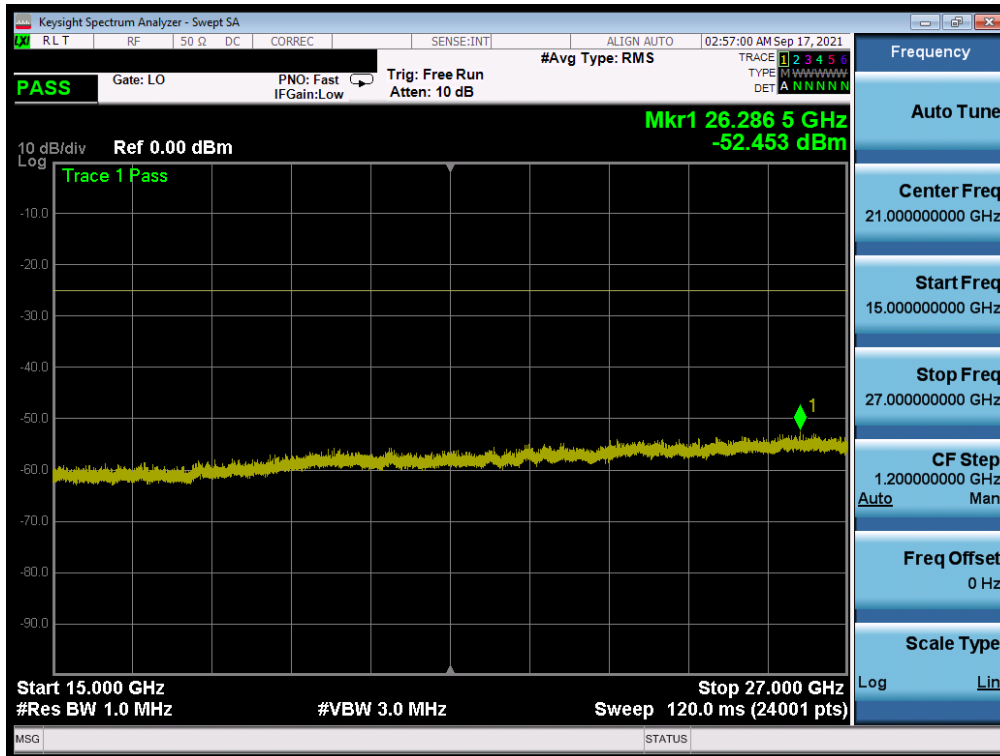
FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset	Page 86 of 242









Plot 7-124. Conducted Spurious Plot (LTE Band 41(PC3)/38 – 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)






Plot 7-125. Conducted Spurious Plot (LTE Band 41(PC3)/38 – 20MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSMS901U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset	Page 88 of 242





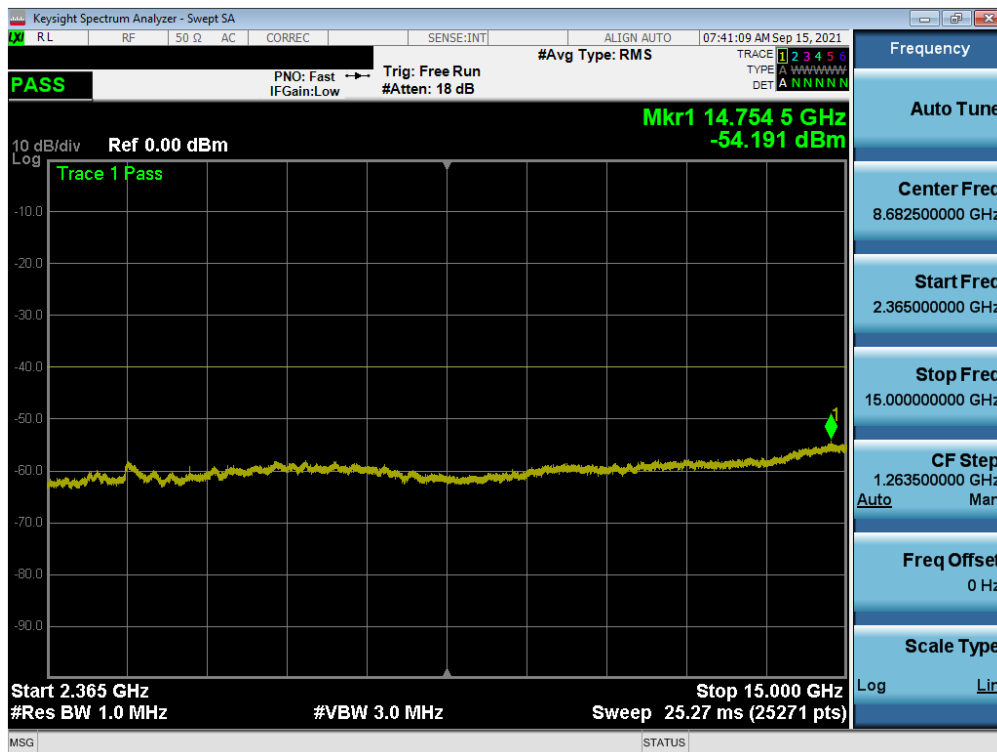
Plot 7-128. Conducted Spurious Plot (LTE Band 41(PC3)/38 – 20MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 90 of 242

## NR Band n30 – Ant B



Plot 7-129. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant B)






Plot 7-130. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant B)

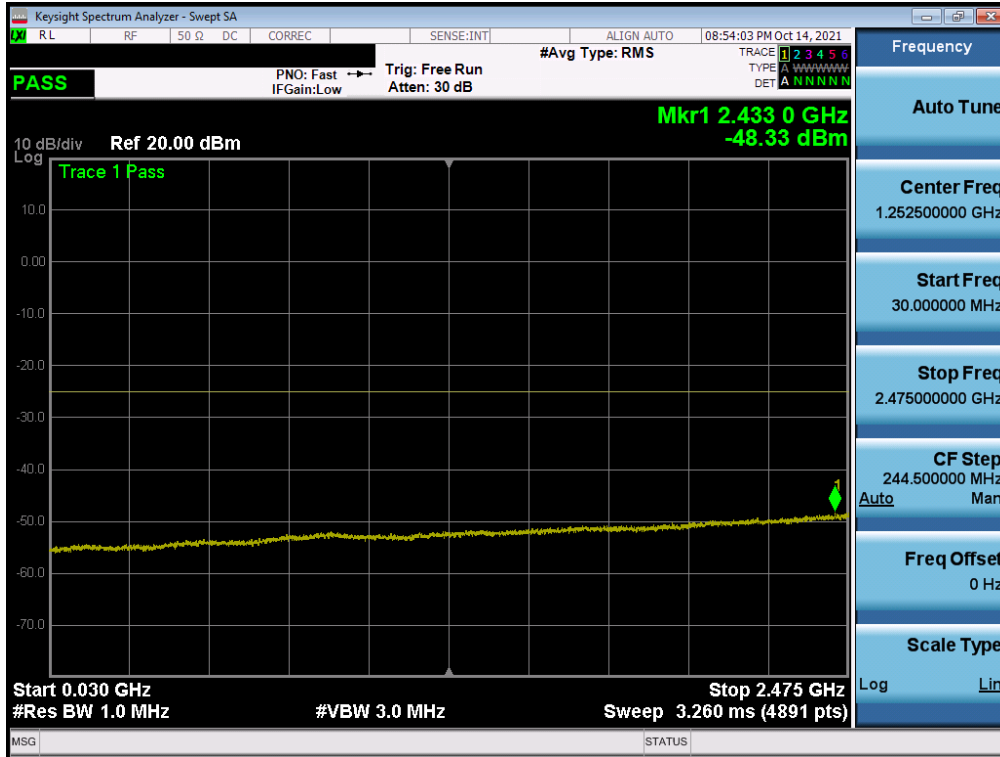
FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 91 of 242



Plot 7-131. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant B)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 92 of 242

## NR Band n7 – Ant B

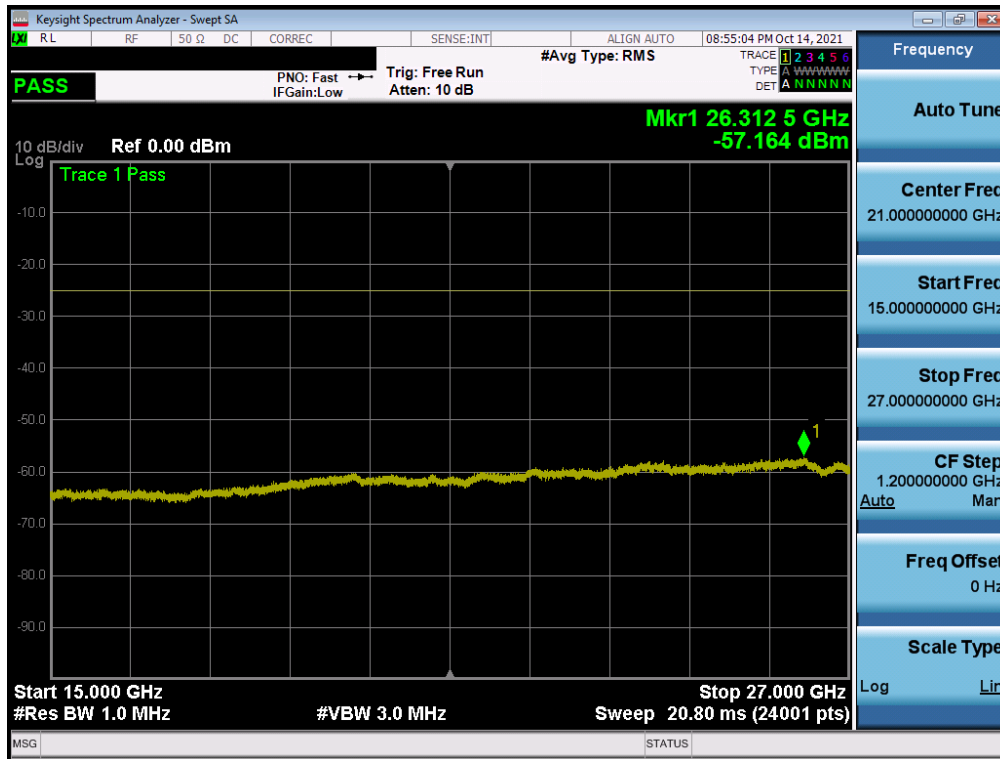


Plot 7-132. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – Low Channel Ant B)



Plot 7-133. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – Low Channel Ant B)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 93 of 242

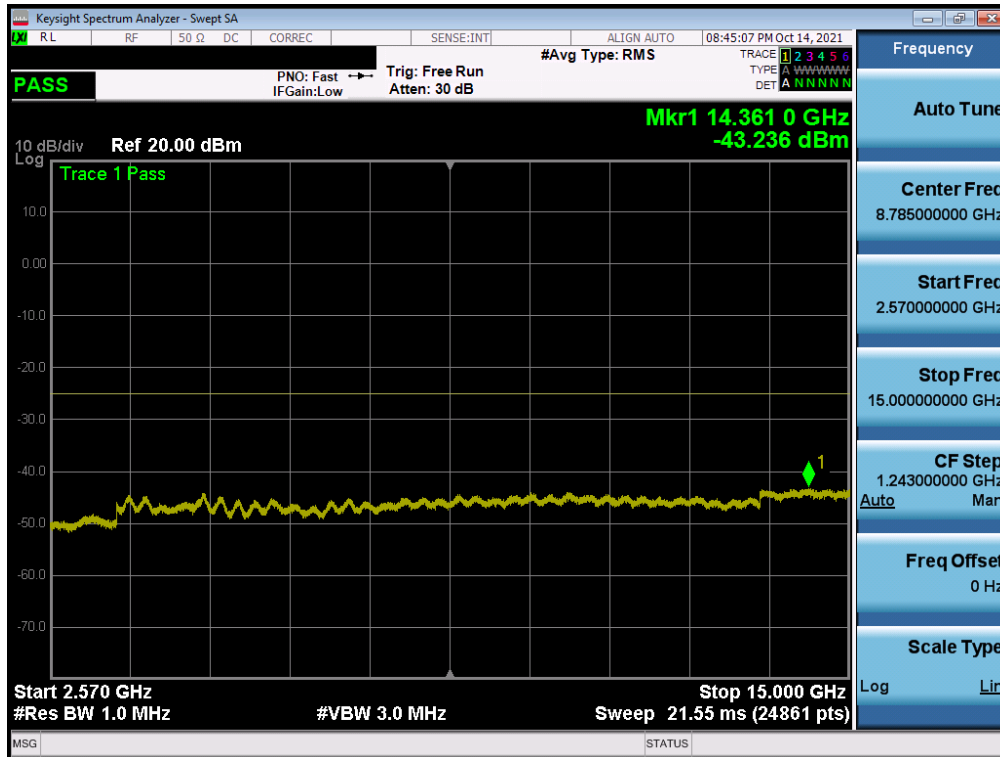


Plot 7-134. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – Low Channel Ant B)

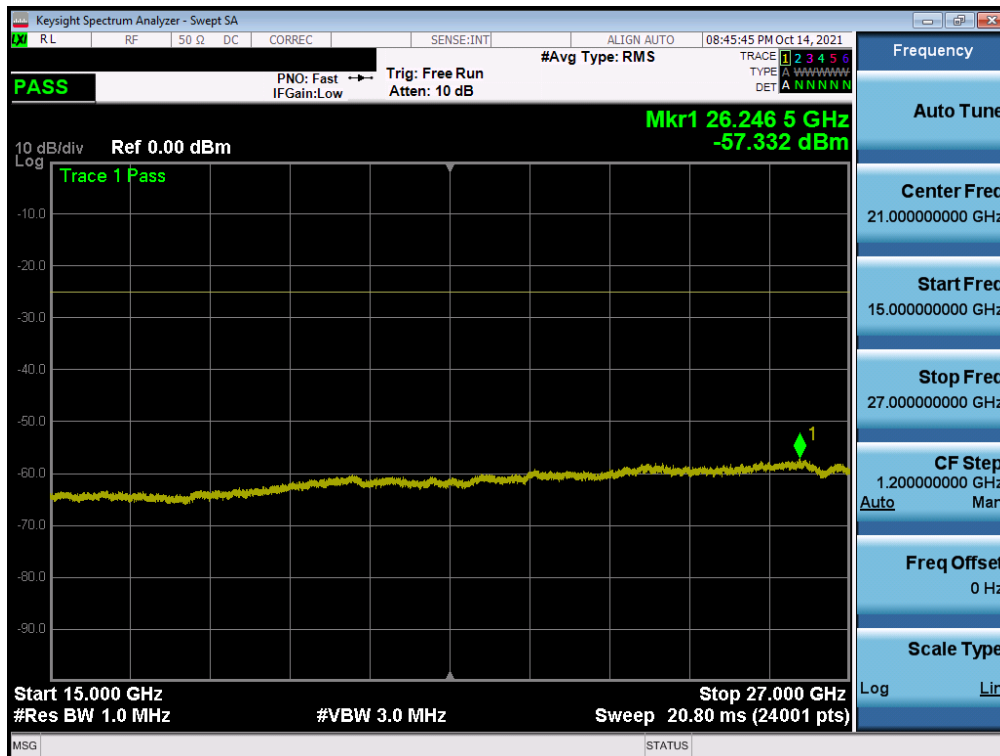


Plot 7-135. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel Ant B)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 94 of 242



Plot 7-136. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel Ant B)



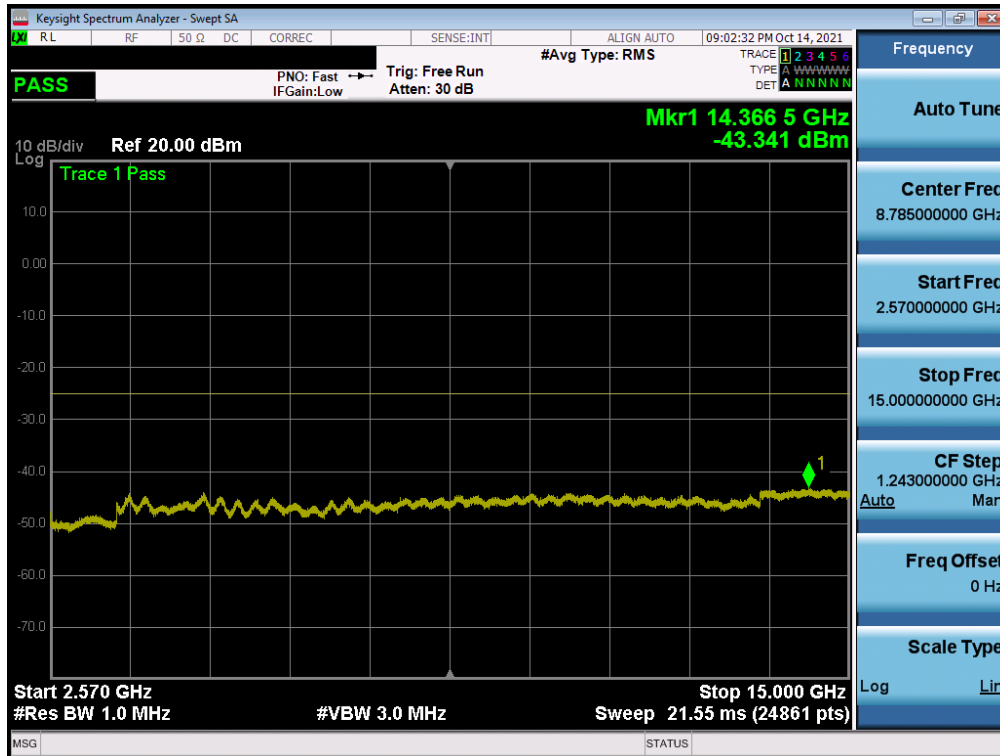
Plot 7-137. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel Ant B)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 95 of 242








Plot 7-138. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – High Channel Ant B)






Plot 7-139. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – High Channel Ant B)

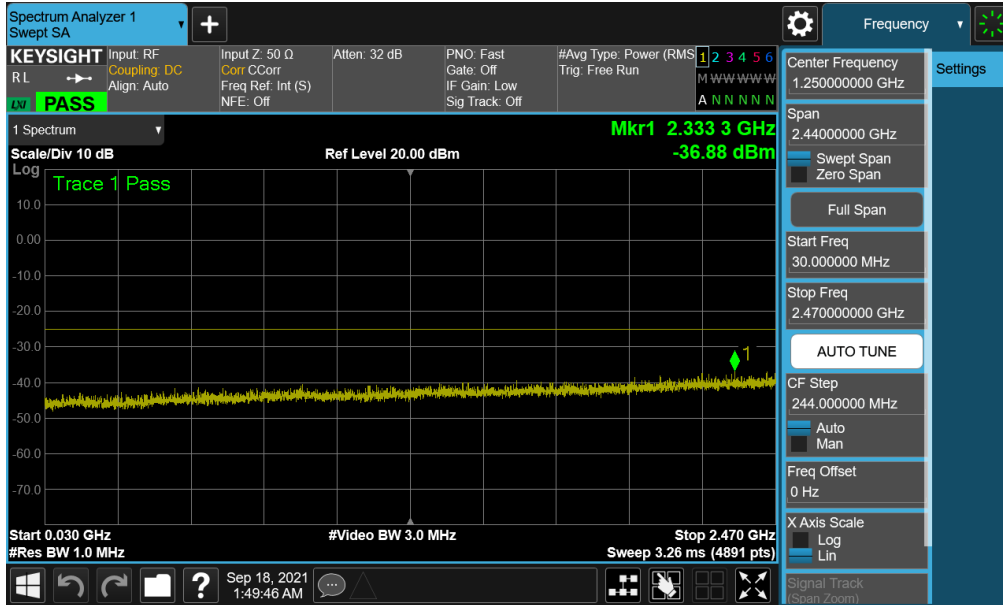
FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 96 of 242



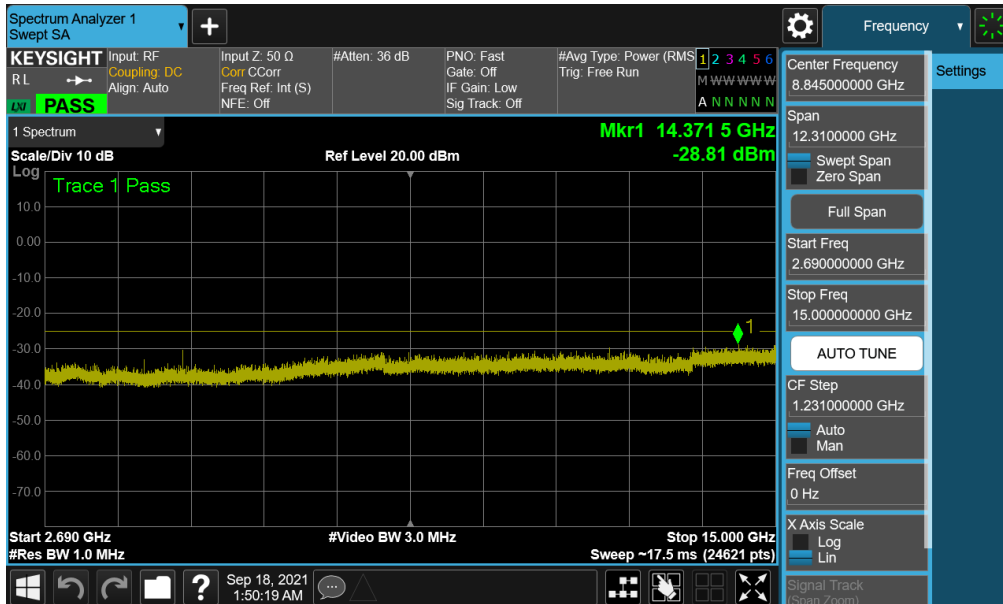
Plot 7-140. Conducted Spurious Plot (NR Band n7 – 40MHz QPSK – RB Size 1, RB Offset 0 – High Channel Ant B)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 97 of 242

## NR Band n41 – Ant F

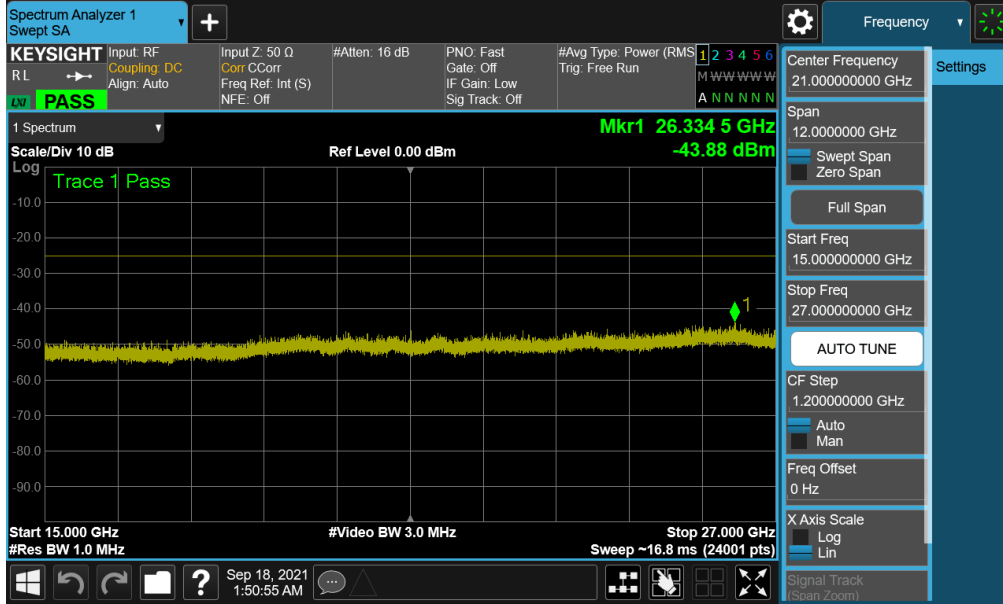


Plot 7-141. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – Low Channel Ant F)

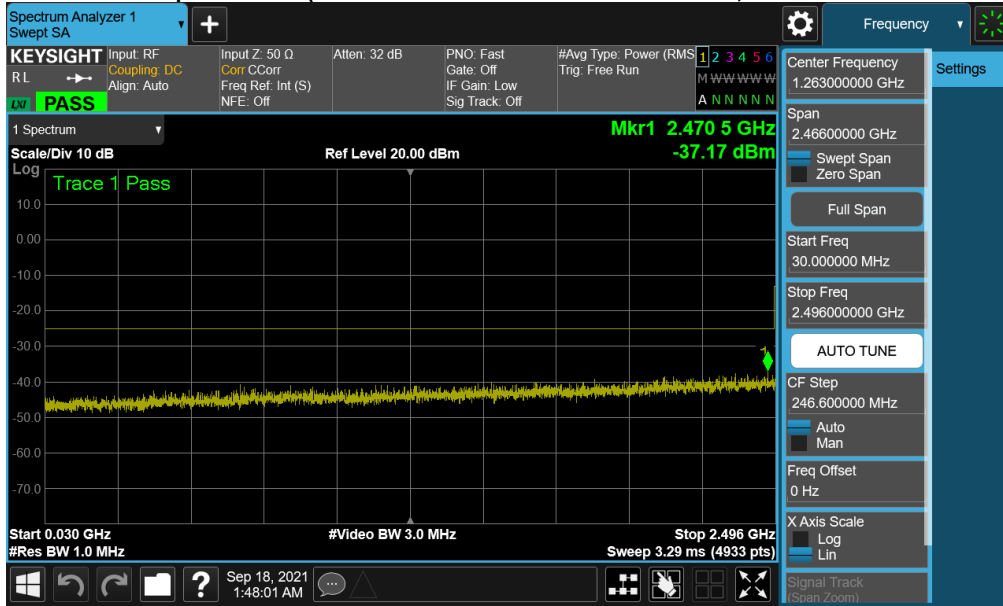


Plot 7-142. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – Low Channel Ant F)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 98 of 242

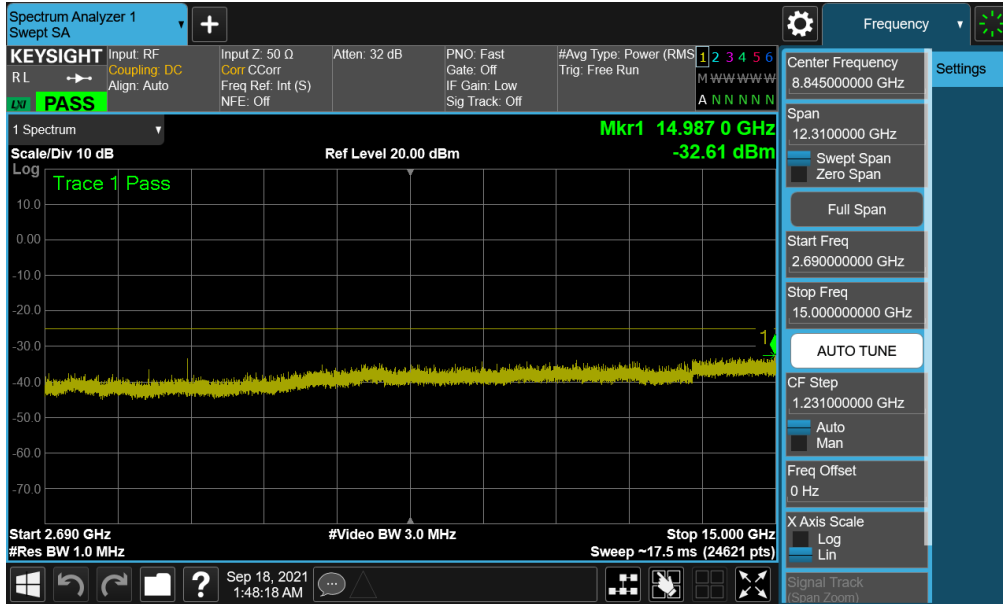


Plot 7-143. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – Low Channel Ant F)

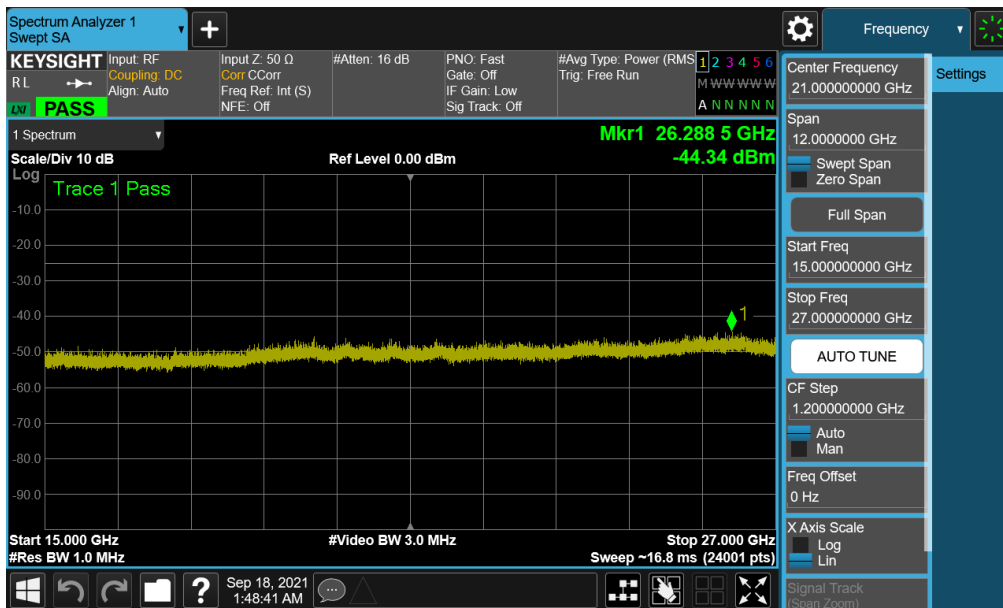


Plot 7-144. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel Ant F)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 99 of 242

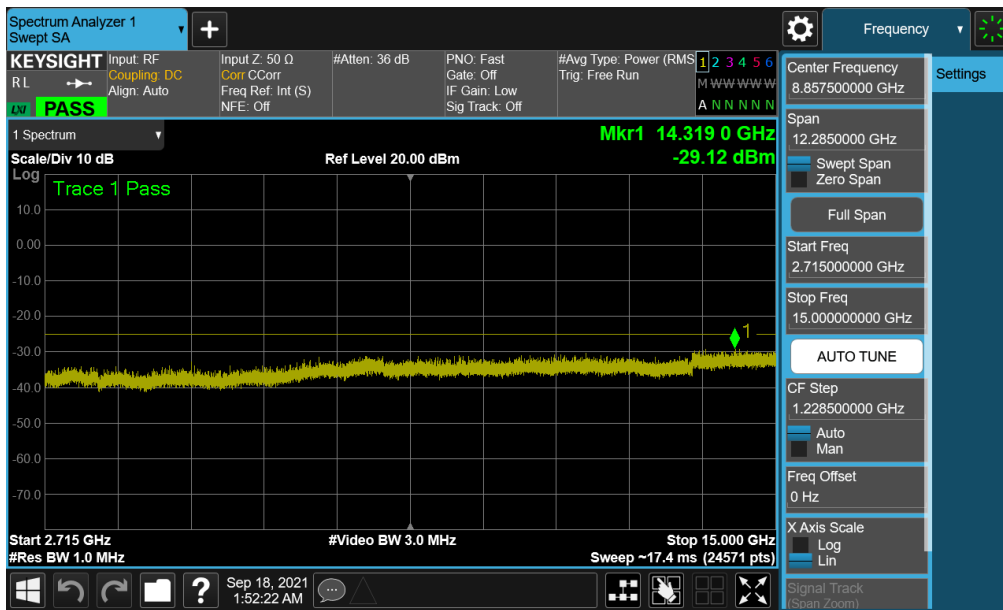
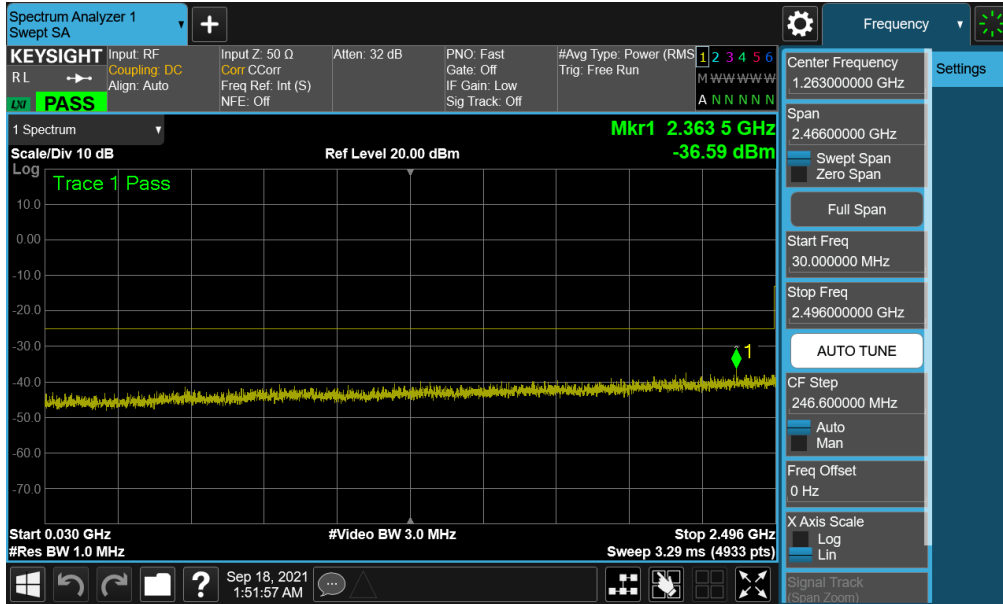


Plot 7-145. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel Ant F)

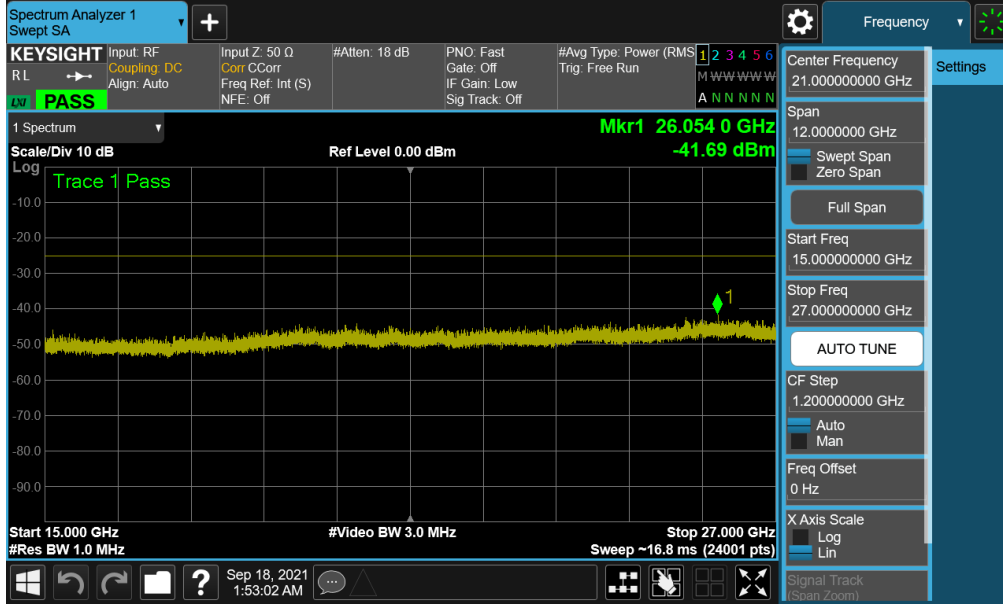


Plot 7-146. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel Ant F)




FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 100 of 242



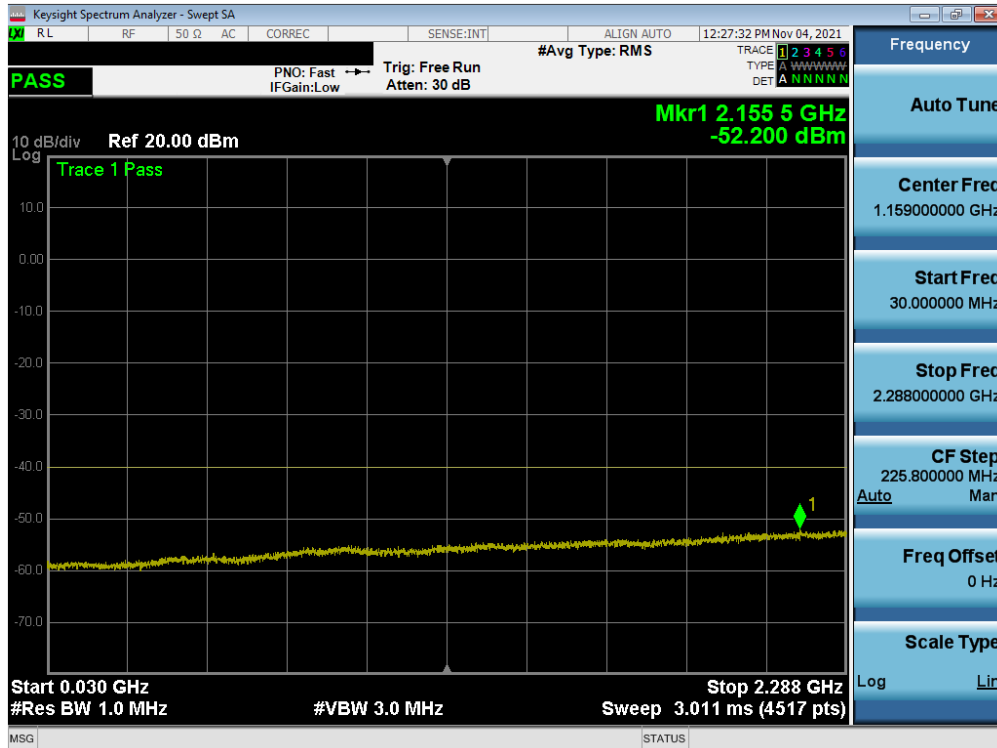
FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 101 of 242



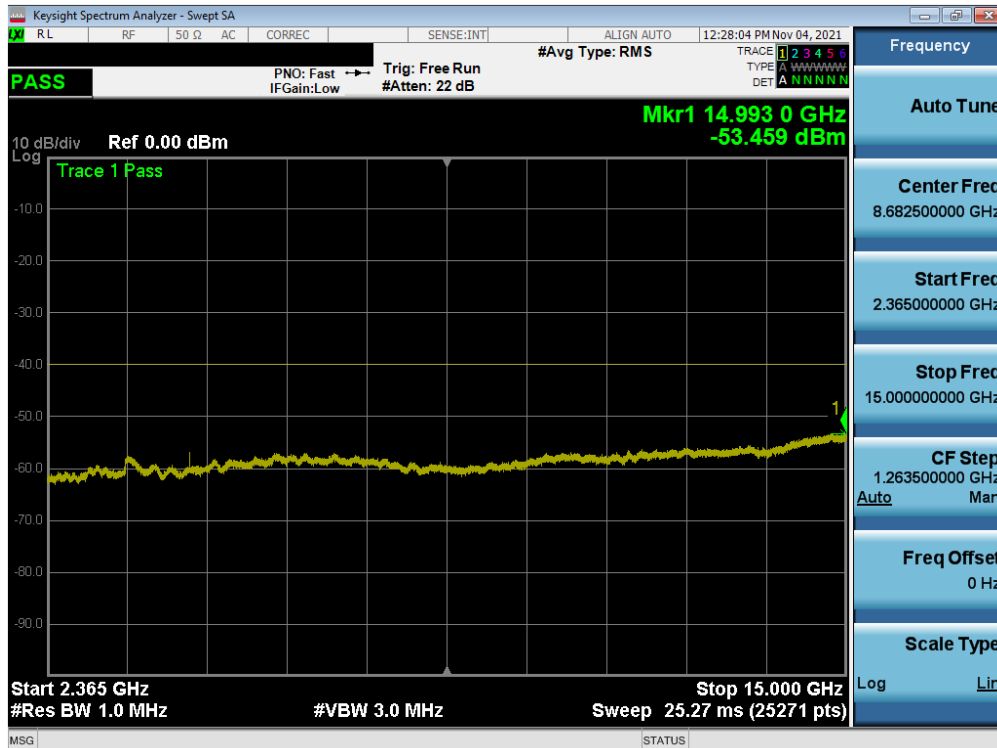
Plot 7-149. Conducted Spurious Plot (NR Band n41 – 100MHz QPSK – RB Size 1, RB Offset 0 – High Channel Ant F)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2109080099-05-R3.A3L	<b>Test Dates:</b> 09/08/2021 – 11/10/2021	<b>EUT Type:</b> Portable Handset		Page 102 of 242

## LTE Band 30 – Ant A



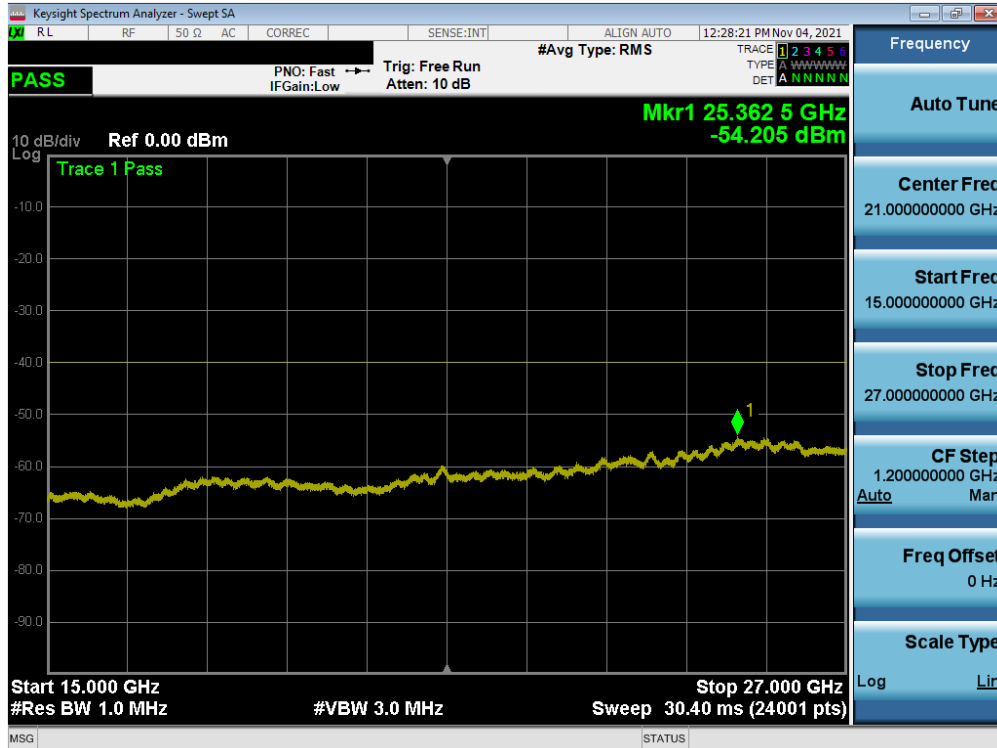
Plot 7-150. Conducted Spurious Plot (LTE Band 30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant A)



Plot 7-151. Conducted Spurious Plot (LTE Band 30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant A)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 103 of 242





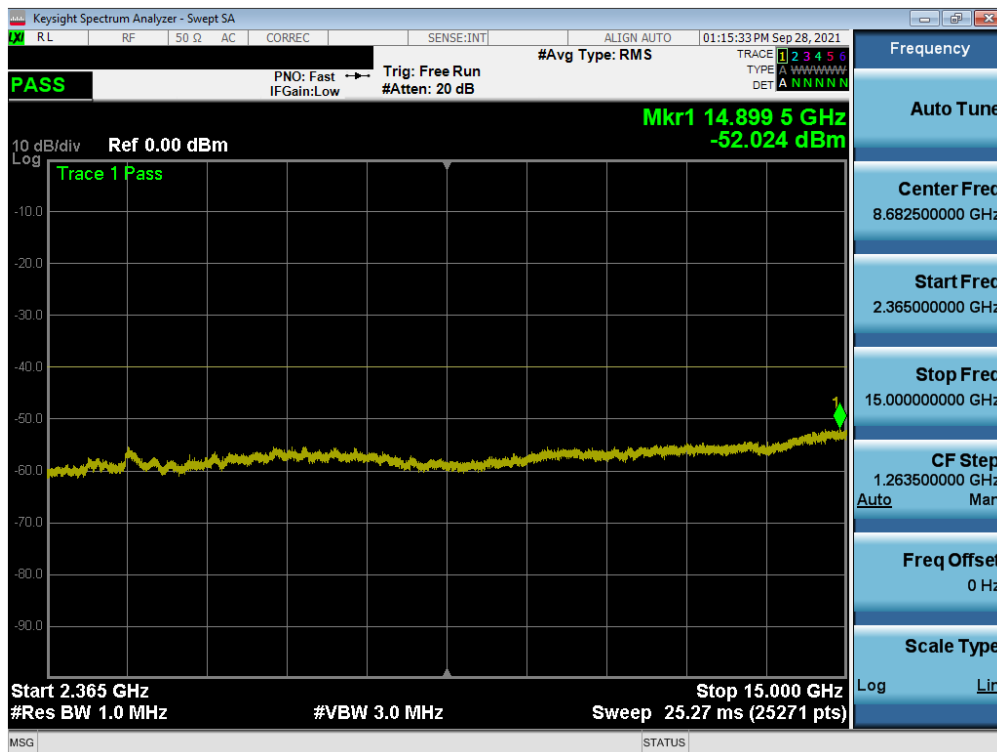
Plot 7-152. Conducted Spurious Plot (LTE Band 30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant A)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2109080099-05-R3.A3L	<b>Test Dates:</b> 09/08/2021 – 11/10/2021	<b>EUT Type:</b> Portable Handset		Page 104 of 242

## NR Band n30 – Ant A

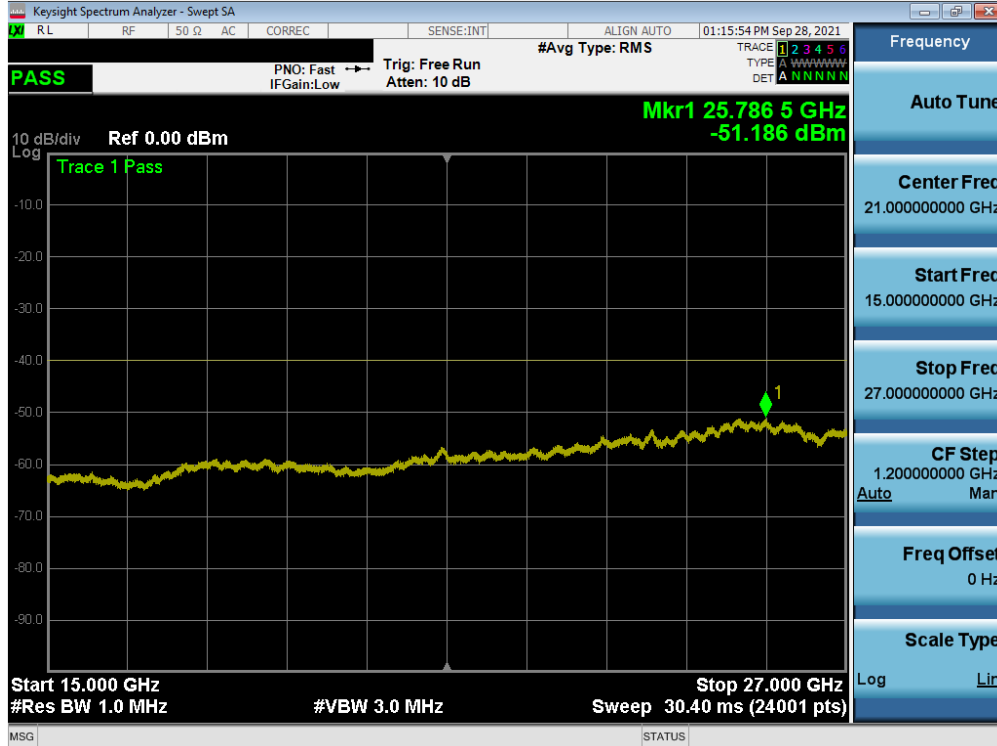


Plot 7-153. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant A)






Plot 7-154. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant A)

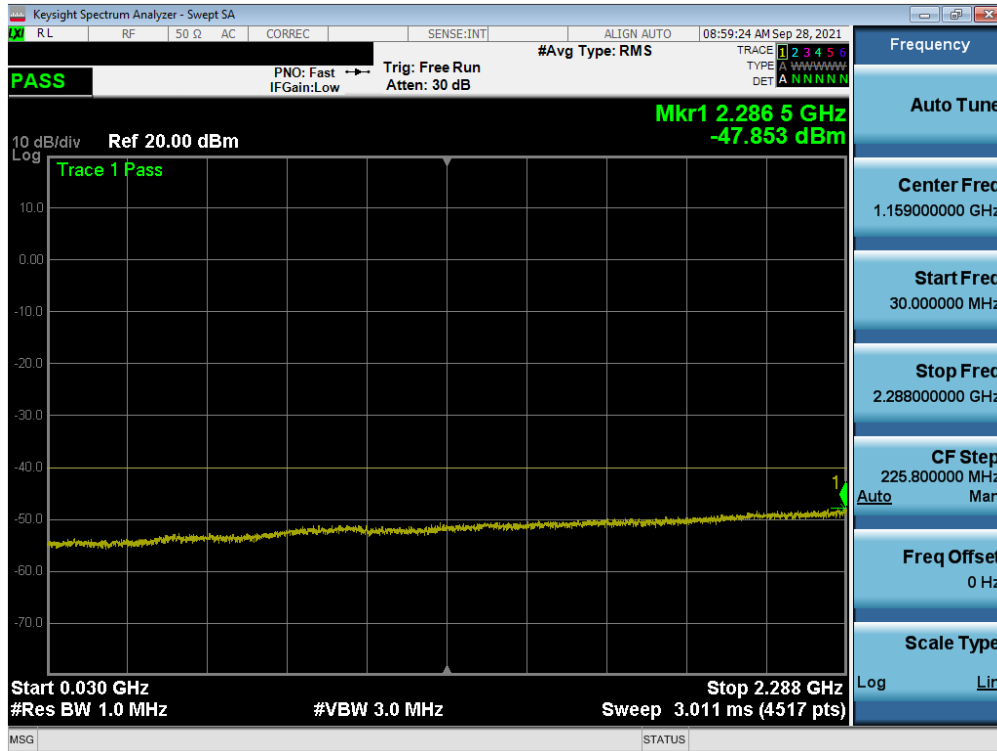
FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 105 of 242



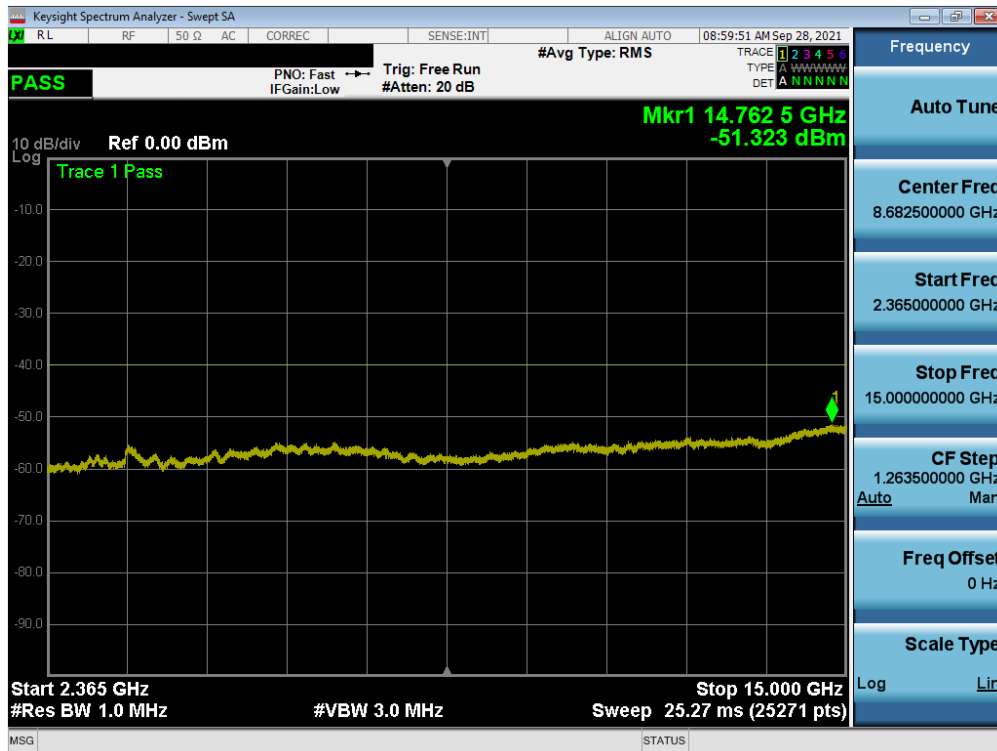
Plot 7-155. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant A)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 106 of 242

## NR Band n30 – Ant F

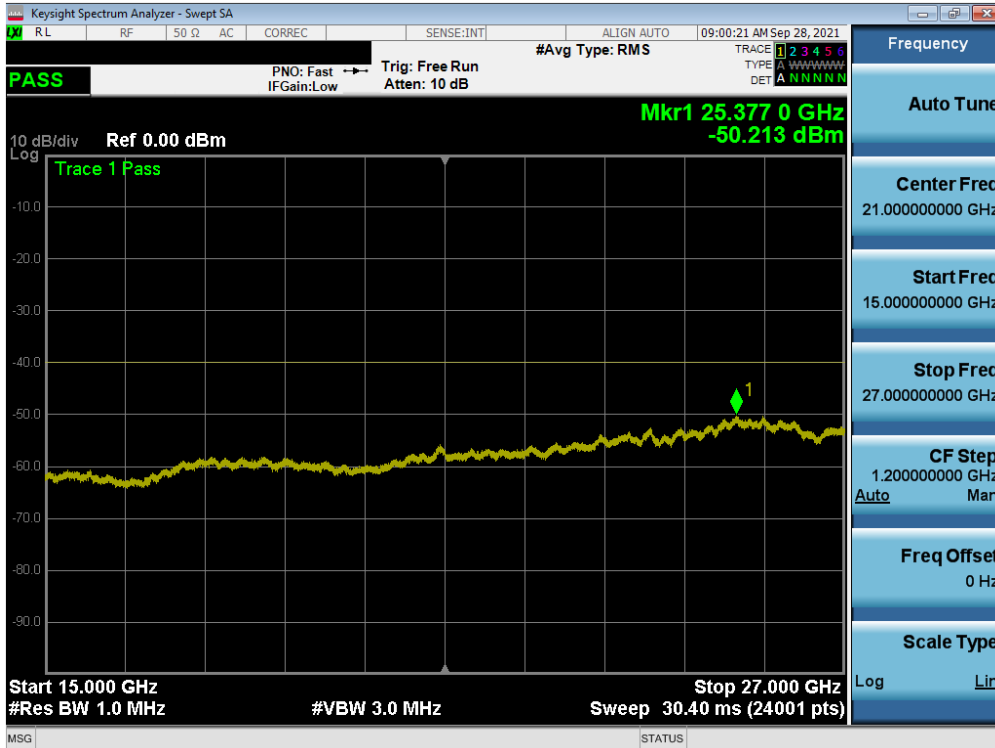


Plot 7-156. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant F)





Plot 7-157. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant F)

FCC ID: A3LSMS901U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 107 of 242



Plot 7-158. Conducted Spurious Plot (NR Band n30 – 10MHz QPSK – RB Size 1, RB Offset 0 – Ant F)

FCC ID: A3LSMS901U	 Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 108 of 242

## 7.5 Uplink Carrier Aggregation

### §27.53(m)

#### Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. 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.

***For Band 41/38 the minimum permissible attenuation level of any spurious emission is  $55 + 10 \log_{10}(P_{[Watts]})$ .***

#### Test Procedure Used

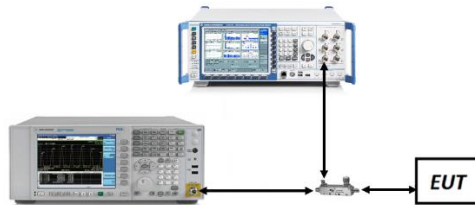
KDB 971168 D01 v03r01 – Section 6.0

#### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 \* the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

#### Test Setup



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



**Figure 7-4. Test Instrument & Measurement Setup**

#### Test Notes

1. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
2. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 109 of 242

## Uplink CA Configuration 41C

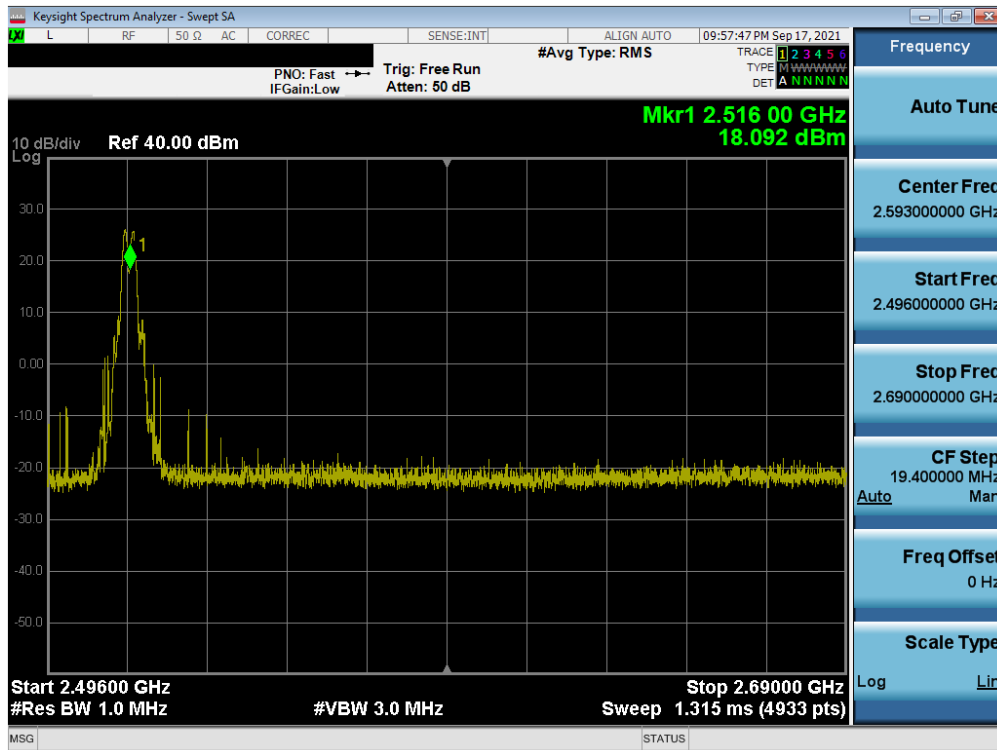
Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]				
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency		UL # RB	UL RB Offset		
Max	LTE B41 (PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	26.59		
				40620	2593.0	1	99		40818	2612.8	1	0	26.24		
				41490	2680.0	1	0		41292	2660.2	1	99	26.39		
			QPSK	39750	2506	100	0	QPSK	39948	2525.8	100	0	24.51		
				16-QAM	39750	2506	100		0	16-QAM	39948	2525.8	100	0	23.51
				64-QAM	39750	2506	100		0	64-QAM	39948	2525.8	100	0	23.46
				256-QAM	39750	2506	100		0	256-QAM	39948	2525.8	100	0	21.54
				256-QAM	39750	2506	100		0	256-QAM	39948	2525.8	100	0	21.54

Table 7-159. Conducted Power Data (ULCA LTE B41(PC2))



Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]				
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency		UL # RB	UL RB Offset		
Max	LTE B41 (PC3)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	25.00		
				40620	2593.0	1	99		40818	2612.8	1	0	25.25		
				41490	2680.0	1	0		41292	2660.2	1	99	25.36		
			QPSK	41490	2680	100	0	QPSK	41292	2660.2	100	0	22.90		
				16-QAM	41490	2680	100		0	16-QAM	41292	2660.2	100	0	21.95
				64-QAM	41490	2680	100		0	64-QAM	41292	2660.2	100	0	21.86
				256-QAM	41490	2680	100		0	256-QAM	41292	2660.2	100	0	19.96
				256-QAM	41490	2680	100		0	256-QAM	41292	2660.2	100	0	19.96

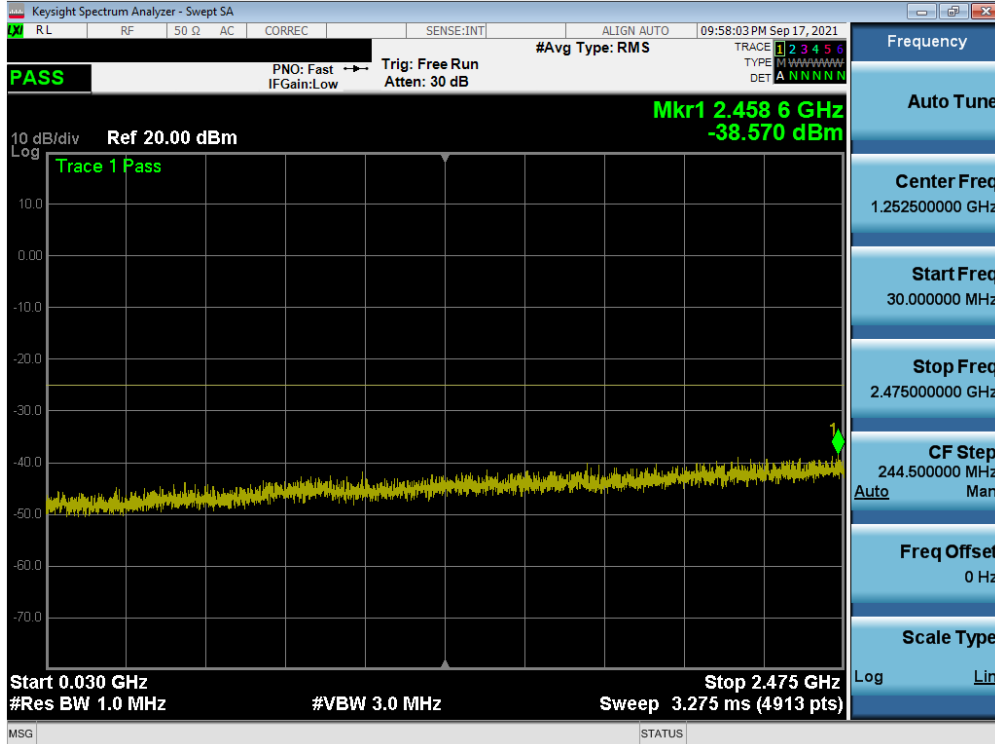
Table 7-160. Conducted Power Data (ULCA LTE B41(PC3))

## ULCA – LTE B41(PC2)

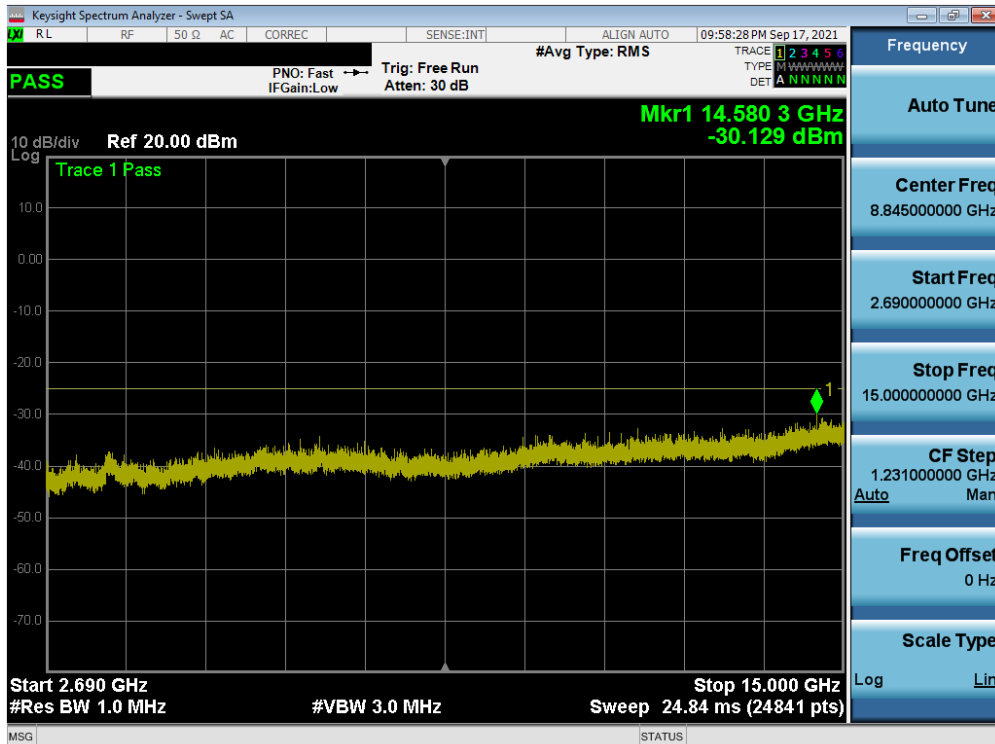


Plot 7-161. Conducted Spurious Plot (ULCA LTE B41(PC2) – 20MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 110 of 242



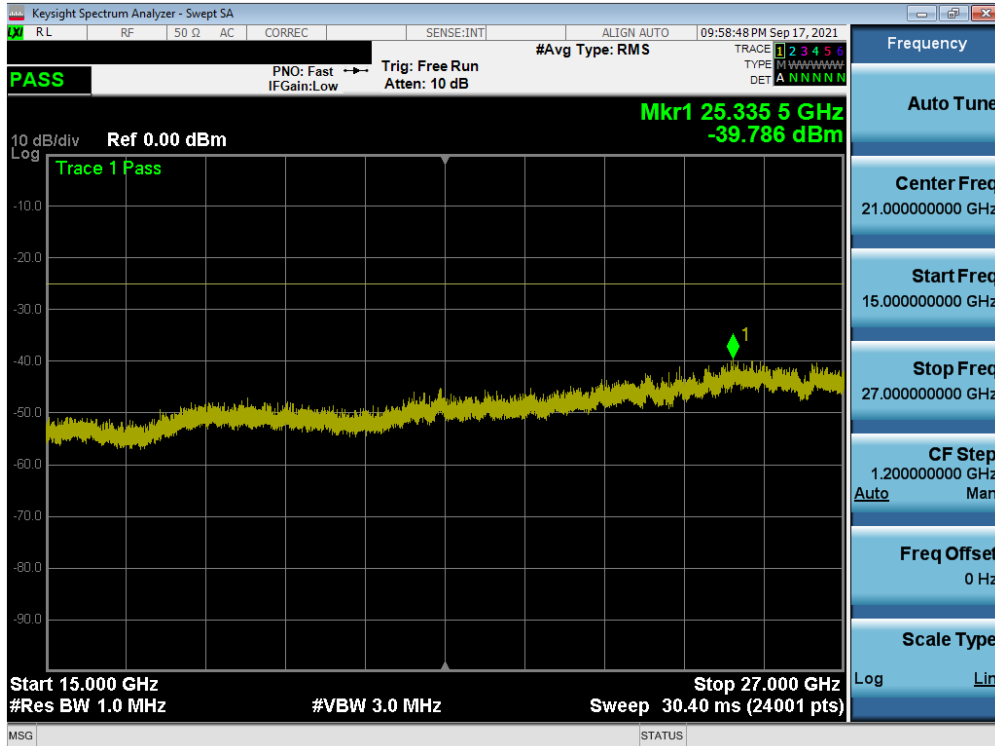
Plot 7-162. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



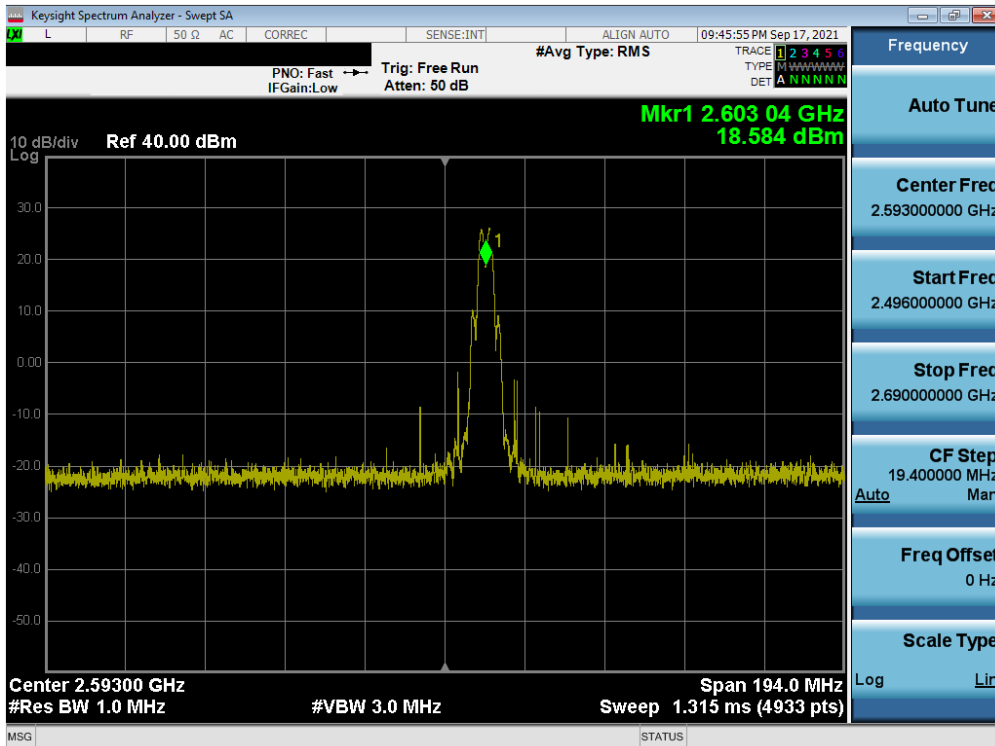
Plot 7-163. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMS901U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 - 11/10/2021	EUT Type: Portable Handset		Page 111 of 242






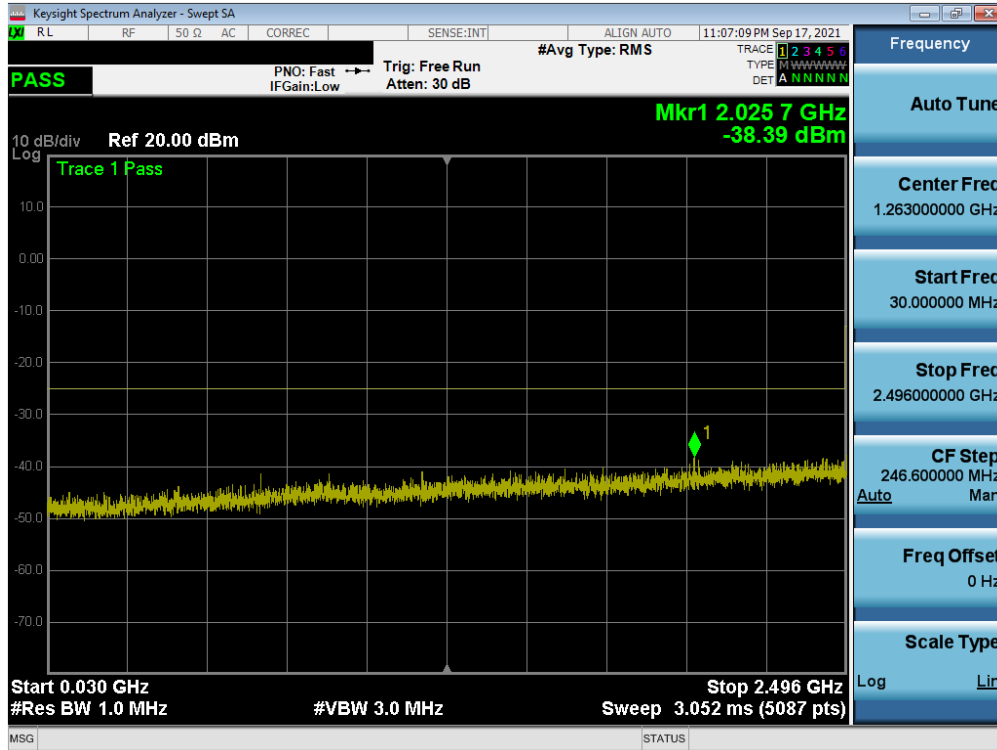


Plot 7-164. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

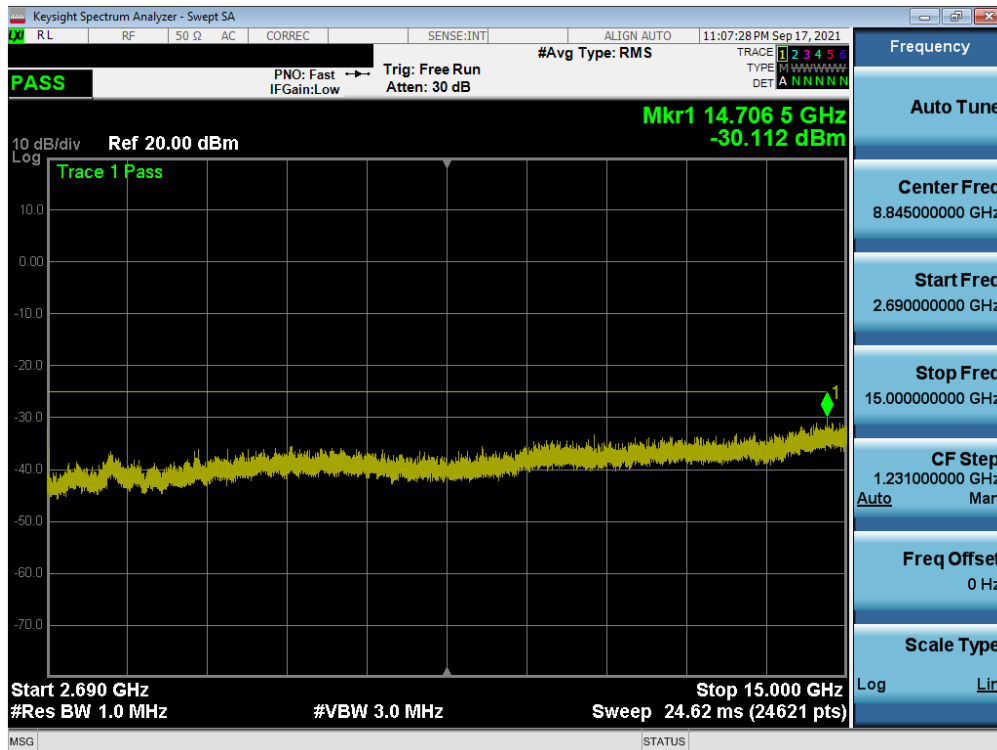


Plot 7-165. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)




FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 112 of 242



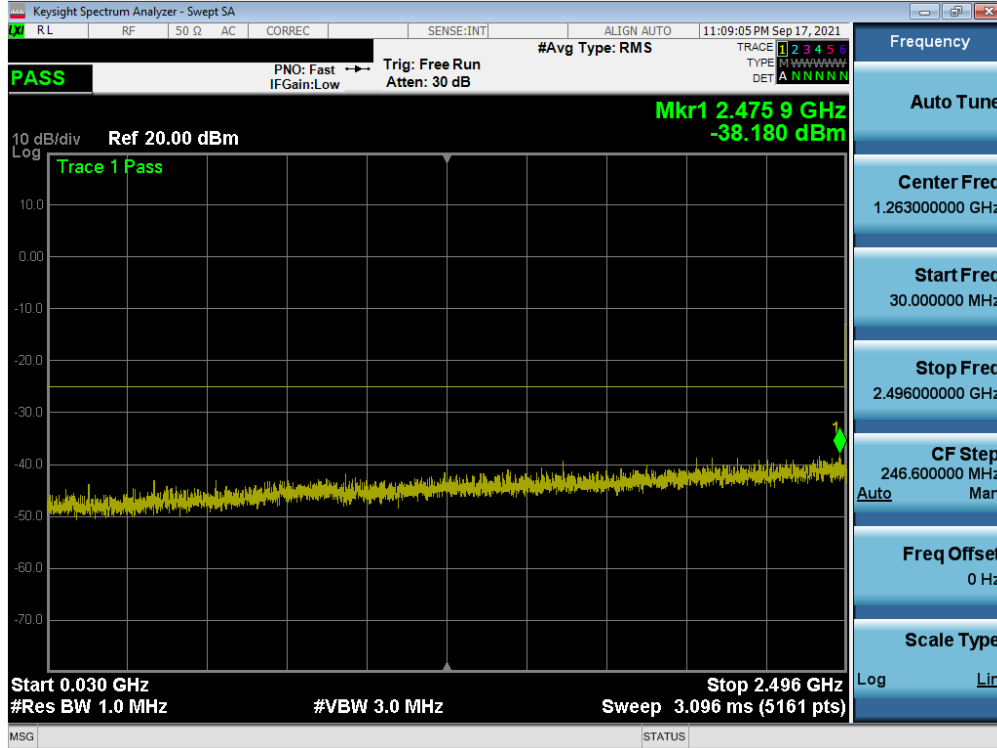
Plot 7-166. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



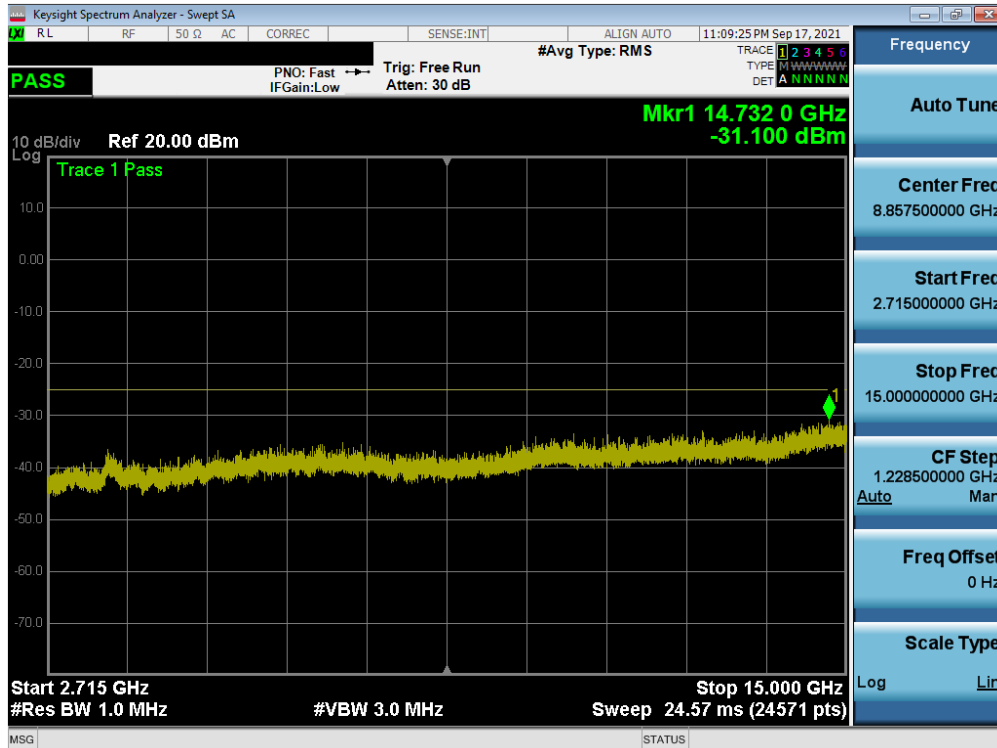
Plot 7-167. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 113 of 242



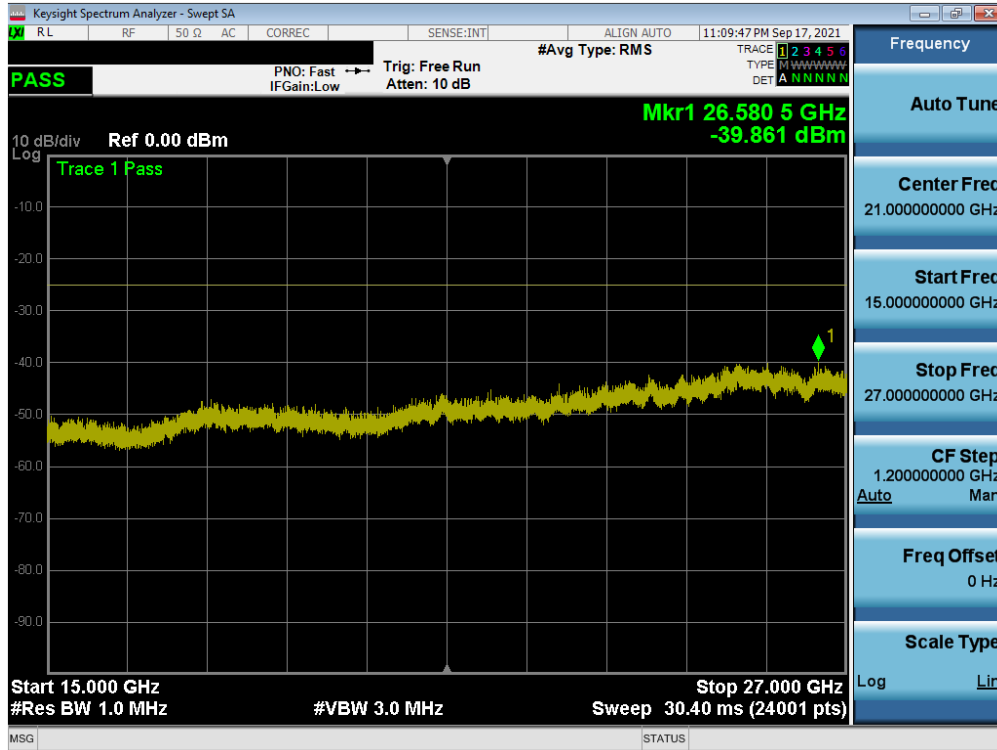


Plot 7-170. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

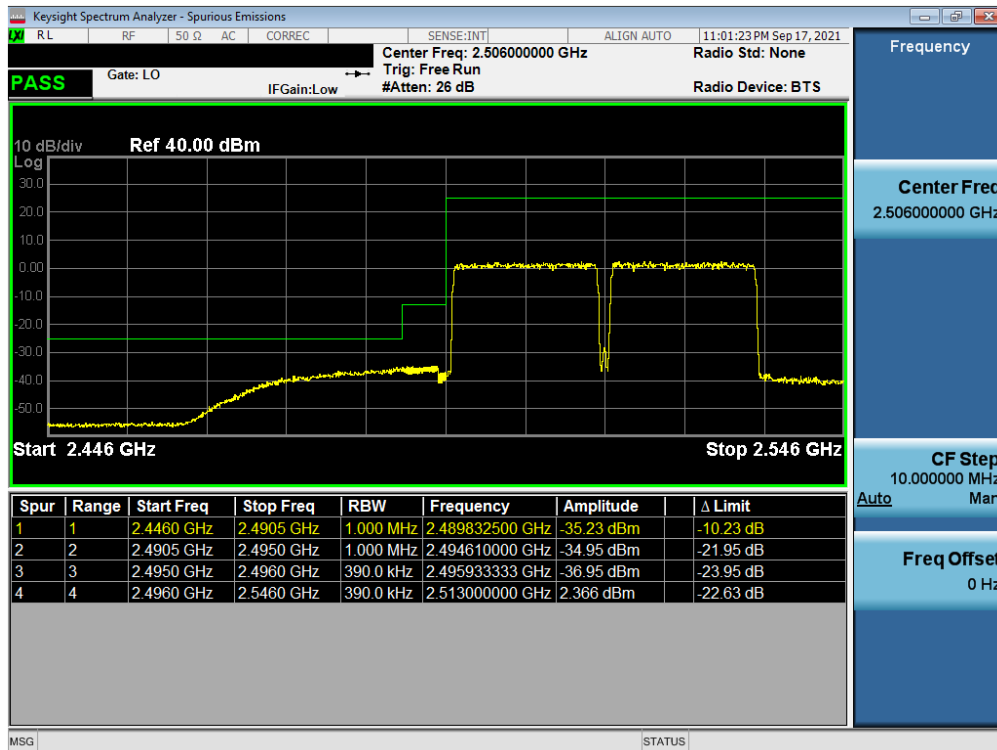


Plot 7-171. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 115 of 242

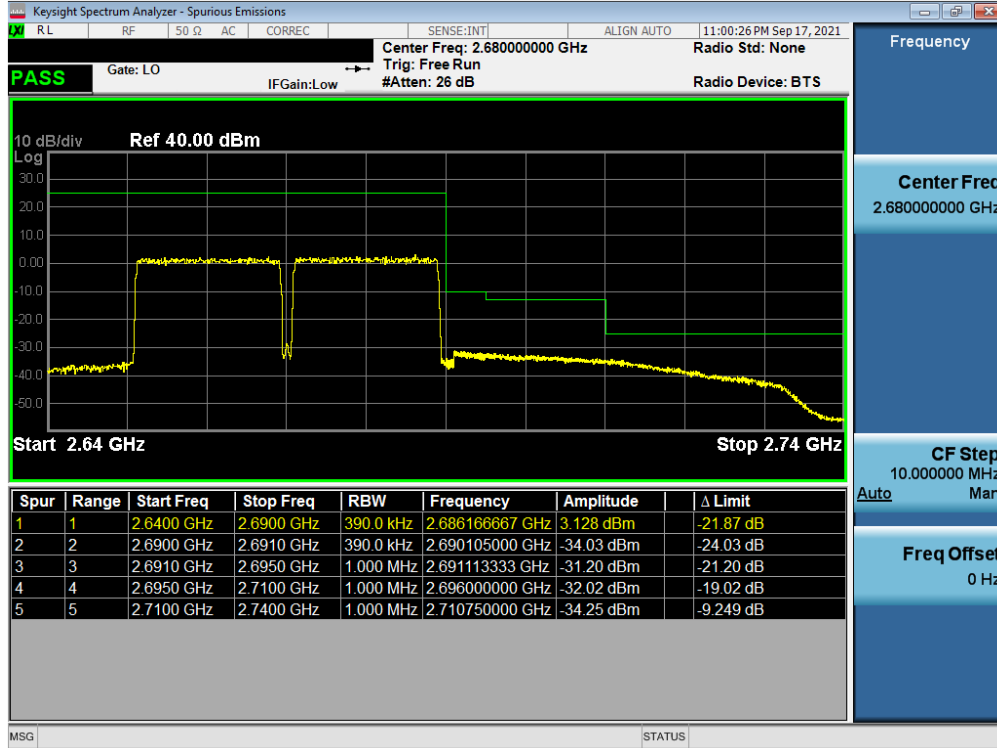


Plot 7-172. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)






Plot 7-173. Lower ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK - Full RB )

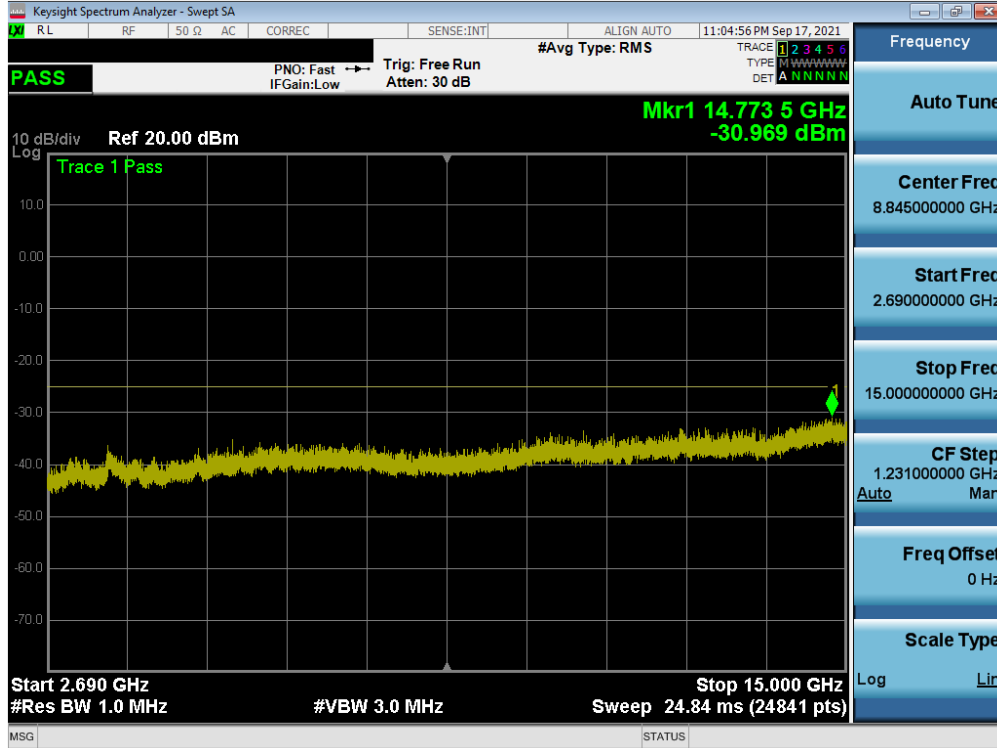
FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2109080099-05-R3.A3L	<b>Test Dates:</b> 09/08/2021 - 11/10/2021	<b>EUT Type:</b> Portable Handset	Page 116 of 242



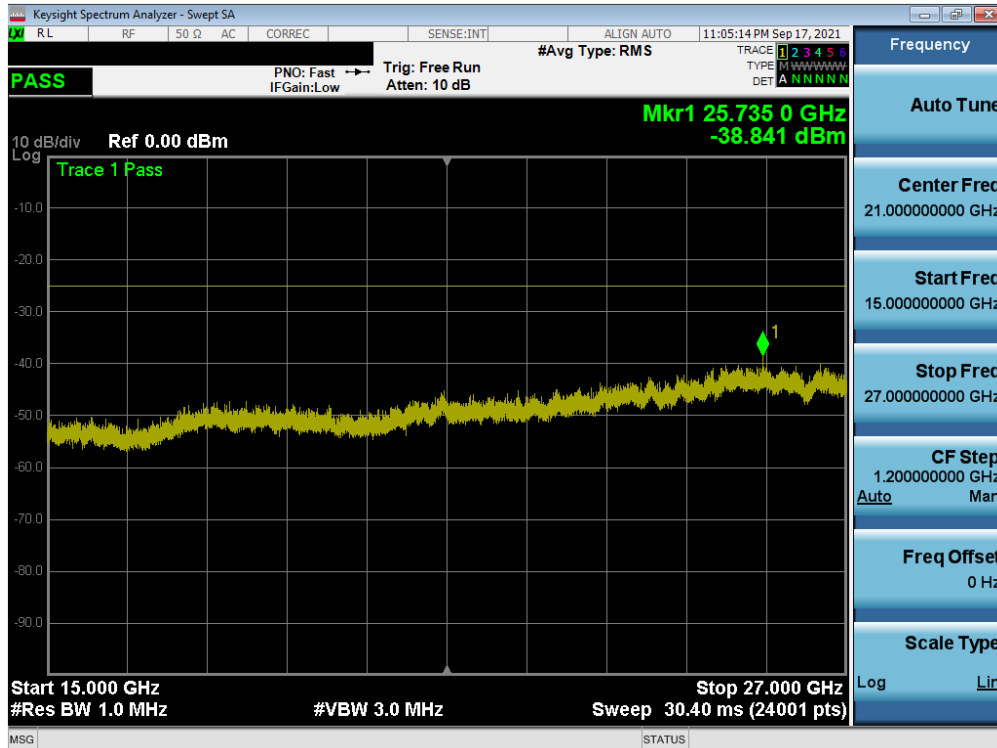
Plot 7-174. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 117 of 242








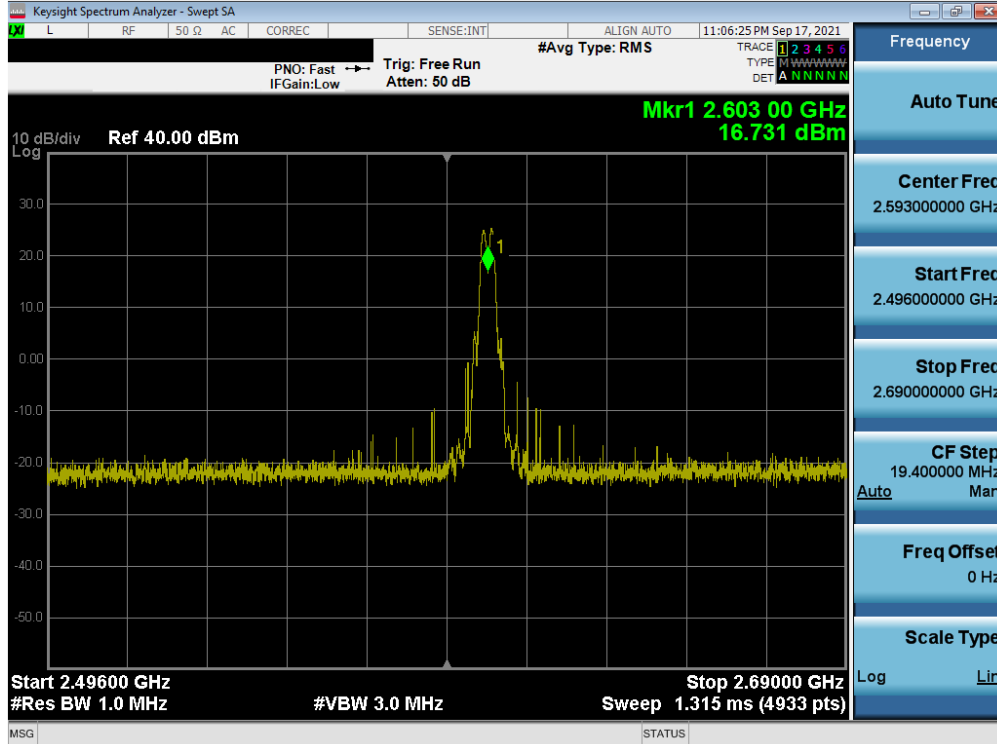
Plot 7-177. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



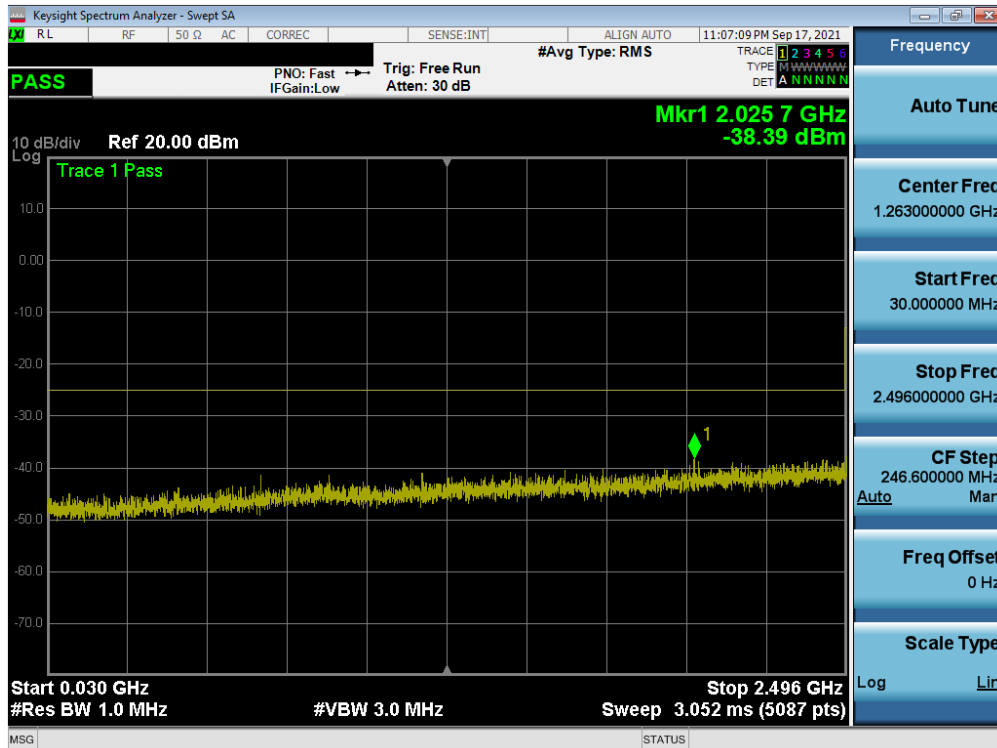
Plot 7-178. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 119 of 242



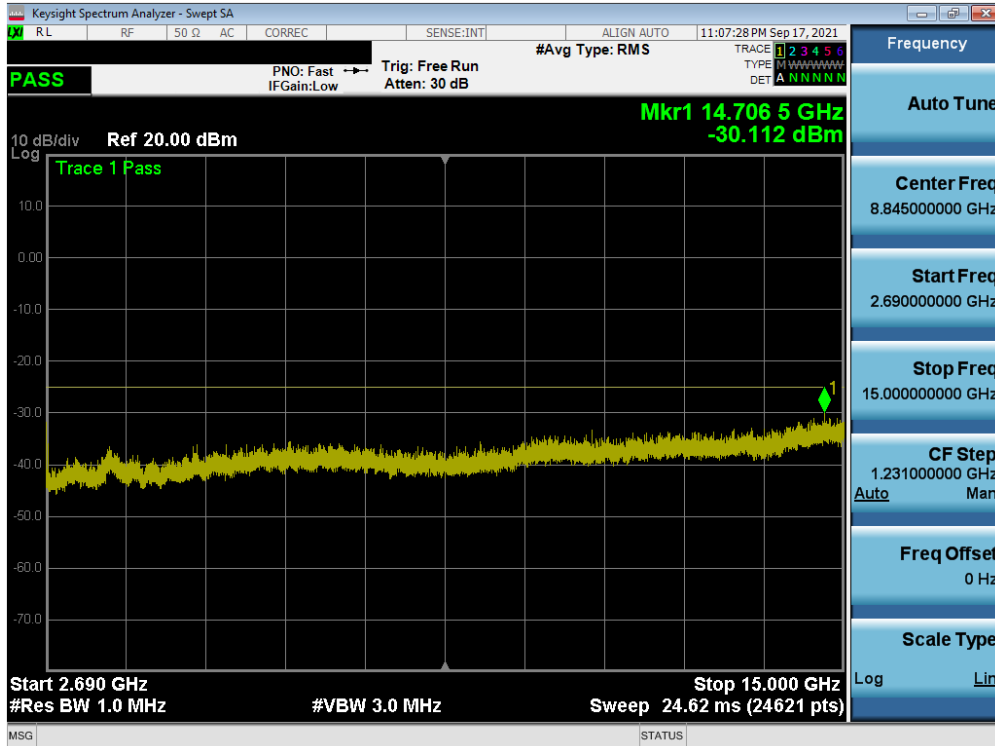


Plot 7-179. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

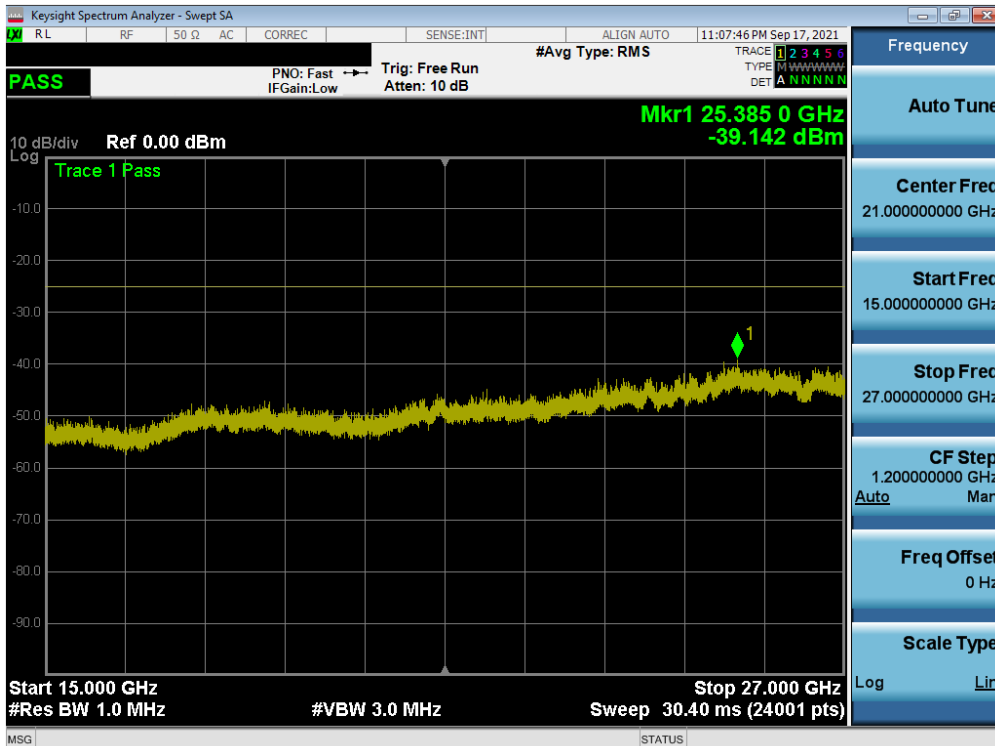


Plot 7-180. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 120 of 242

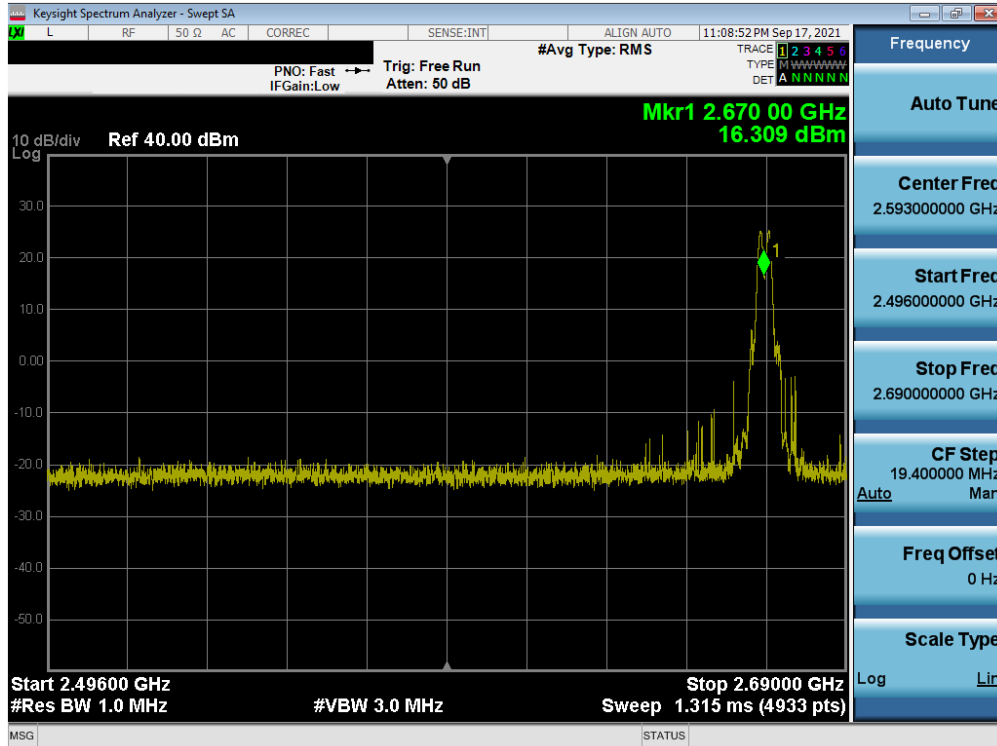


Plot 7-181. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

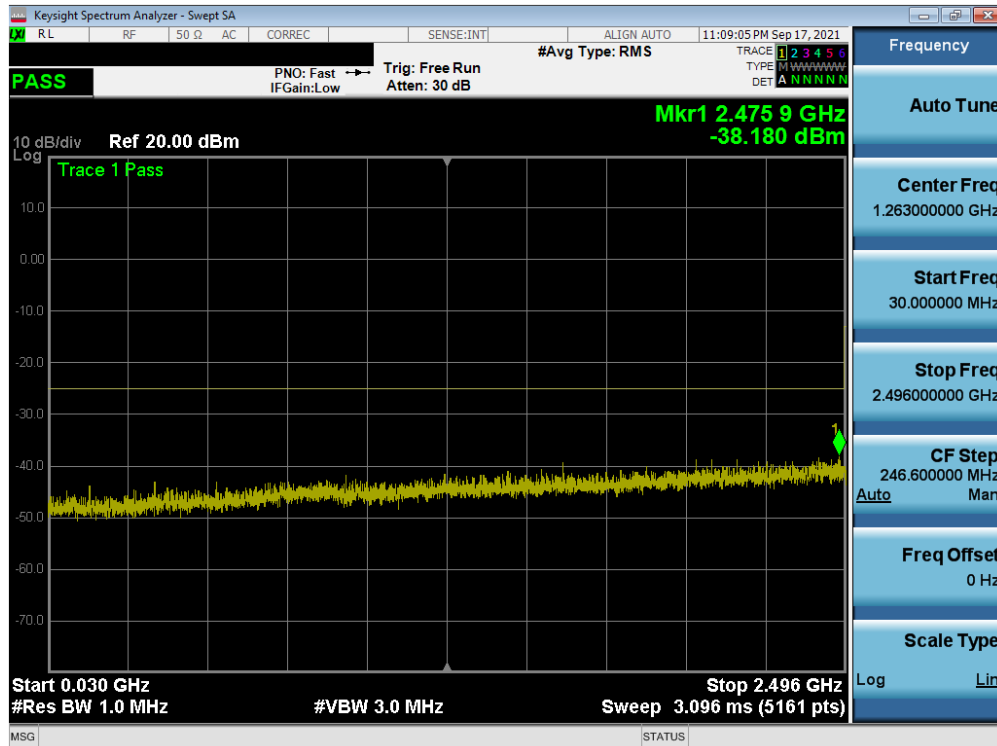


Plot 7-182. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 - 11/10/2021	EUT Type: Portable Handset		Page 121 of 242

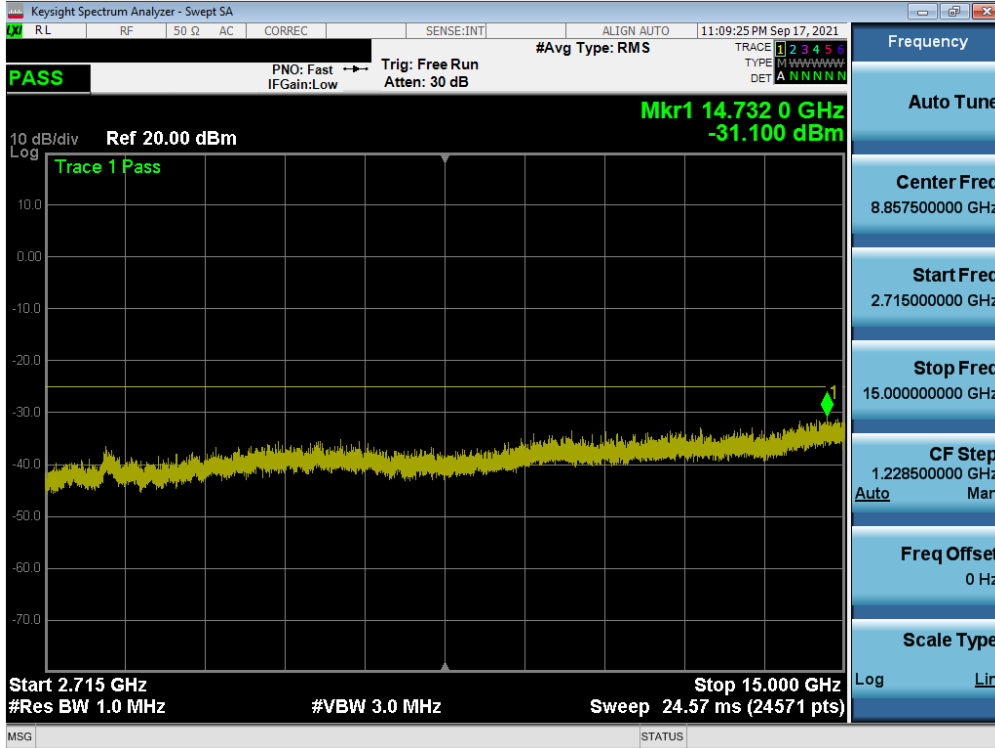


Plot 7-183. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

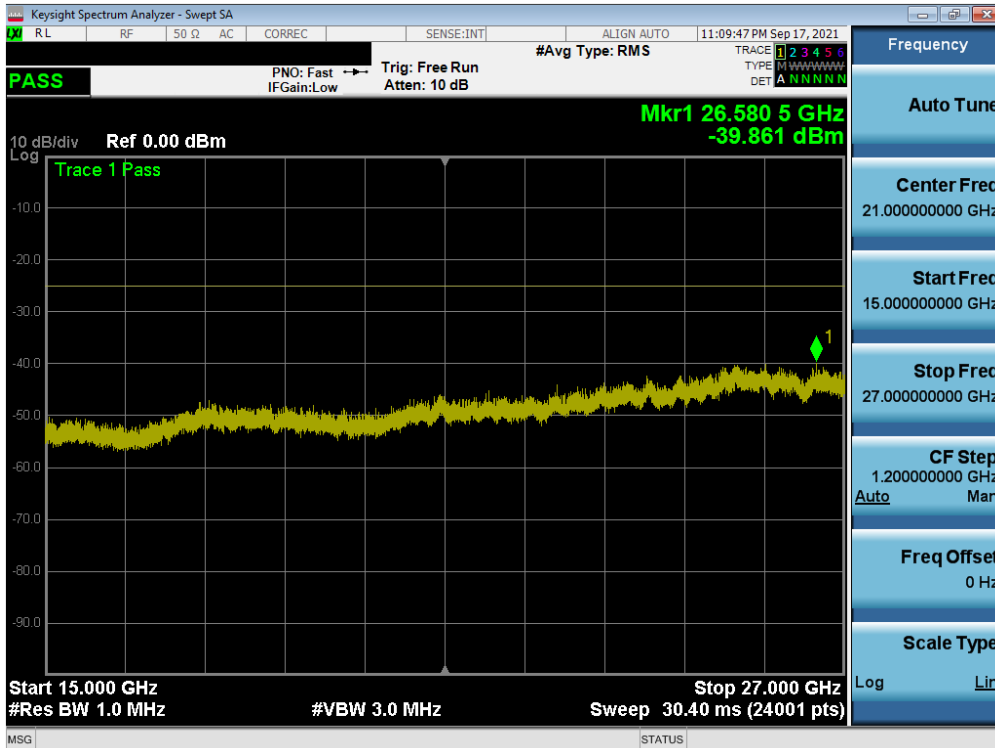


Plot 7-184. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 122 of 242

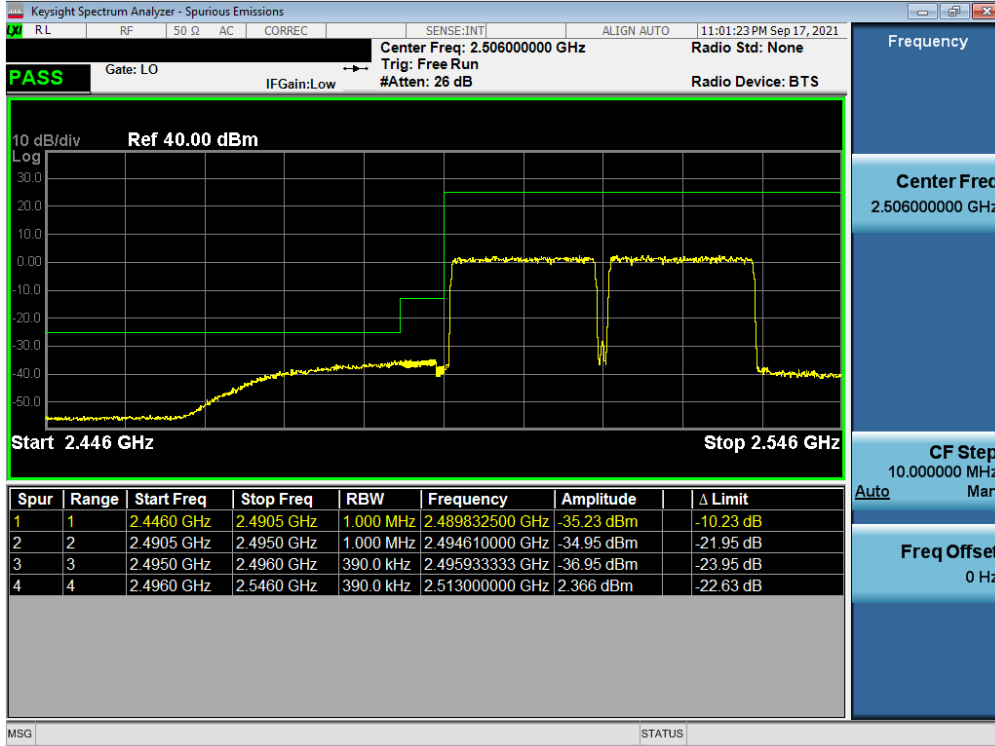


Plot 7-185. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-186. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 123 of 242



Plot 7-187. Lower ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK - Full RB)





Plot 7-188. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 - 11/10/2021	EUT Type: Portable Handset		Page 124 of 242

## Uplink CA Configuration n30-n77

PCC					SCC					PCC Conducted Power [dBm]	SCC Conducted Power [dBm]	Inter-Band ULCA Total Tx. Power (dBm)
PCC Band	PCC Bandwidth [MHz]	PCC (UL) channel	Mod.	PCC UL RB#/Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) channel	Mod.	SCC UL RB#/Offset			
n30	10	Mid	$\pi/2$ BPSK	1 / 39	n77	100	Mid	$\pi/2$ BPSK	1 / 205	21.01	20.77	23.9
			QPSK	50 / 0				QPSK	270 / 0	20.17	20.00	23.1
			QPSK	1 / 13				QPSK	1 / 68	20.80	20.71	23.77
			QPSK	1 / 26				QPSK	1 / 137	20.86	20.83	23.86
			QPSK	1 / 39				QPSK	1 / 205	20.89	20.82	23.87
			16Q	1 / 39				16Q	1 / 205	20.88	20.69	23.8



Table 7-189. Conducted Power Data (ULCA NR Bands n30 – n77)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 125 of 242

## Uplink CA Configuration n41-n66

PCC					SCC					PCC Conducted Power [dBm]	SCC Conducted Power [dBm]	Inter-Band ULCA Total Tx. Power (dBm)
PCC Band	PCC Bandwidth [MHz]	PCC (UL) channel	Mod.	PCC UL RB#/Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) channel	Mod.	SCC UL RB#/Offset			
n41	100	Low	$\pi/2$ BPSK	1 / 205	n66	40	Low	$\pi/2$ BPSK	1 / 162	22.31	20.77	24.62
			QPSK	270 / 0				QPSK	216 / 0	21.32	20.11	23.77
			QPSK	1 / 68				QPSK	1 / 54	21.77	20.44	24.17
			QPSK	1 / 137				QPSK	1 / 108	21.86	20.77	24.36
			QPSK	1 / 205				QPSK	1 / 162	22.14	20.57	24.44
			16Q	1 / 205				16Q	1 / 162	22.02	20.33	24.27
		Mid	$\pi/2$ BPSK	1 / 68			Mid	$\pi/2$ BPSK	1 / 54	21.98	19.77	24.02
			QPSK	270 / 0				QPSK	216 / 0	19.23	19.10	22.18
			QPSK	1 / 68				QPSK	1 / 54	22.02	19.82	24.07
			QPSK	1 / 137				QPSK	1 / 108	20.67	20.01	23.36
			QPSK	1 / 205				QPSK	1 / 162	20.38	20.25	23.33
			16Q	1 / 68				16Q	1 / 54	21.72	19.80	23.88
		High	$\pi/2$ BPSK	1 / 137			High	$\pi/2$ BPSK	1 / 108	21.77	20.48	24.18
			QPSK	270 / 0				QPSK	216 / 0	21.49	20.11	23.86
			QPSK	1 / 68				QPSK	1 / 54	21.88	20.34	24.19
			QPSK	1 / 137				QPSK	1 / 108	22.03	20.58	24.38
			QPSK	1 / 205				QPSK	1 / 162	22.08	20.43	24.34
			16Q	1 / 137				16Q	1 / 108	22.04	20.19	24.22



Table 7-190. Conducted Power Data (ULCA NR Bands n41 – n66)

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 126 of 242

## Uplink CA Configuration n41-n71

PCC					SCC					PCC Conducted Power [dBm]	SCC Conducted Power [dBm]	Inter-Band ULCA Total Tx. Power (dBm)
PCC Band	PCC Bandwidth [MHz]	PCC (UL) channel	Mod.	PCC UL RB#/Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) channel	Mod.	SCC UL RB#/Offset			
n41	100	Low	$\pi/2$ BPSK	1 / 205	n71	20	Low	$\pi/2$ BPSK	1 / 79	21.26	19.91	23.65
			QPSK	270 / 0				QPSK	100 / 0	20.89	19.57	23.29
			QPSK	1 / 68				QPSK	1 / 26	21.18	19.71	23.52
			QPSK	1 / 137				QPSK	1 / 53	21.18	19.70	23.51
			QPSK	1 / 205				QPSK	1 / 79	21.22	19.80	23.58
			16Q	1 / 205				16Q	1 / 79	21.01	19.60	23.37
		Mid	$\pi/2$ BPSK	1 / 205			Mid	$\pi/2$ BPSK	1 / 79	22.17	19.87	24.18
			QPSK	270 / 0				QPSK	100 / 0	21.67	19.62	23.78
			QPSK	1 / 68				QPSK	1 / 26	22.22	19.78	24.18
			QPSK	1 / 137				QPSK	1 / 53	22.18	19.70	24.12
			QPSK	1 / 205				QPSK	1 / 79	22.32	19.99	24.32
			16Q	1 / 205				16Q	1 / 79	21.99	19.89	24.08
		High	$\pi/2$ BPSK	1 / 68			High	$\pi/2$ BPSK	1 / 26	21.68	19.88	23.88
			QPSK	270 / 0				QPSK	100 / 0	21.41	19.67	23.64
			QPSK	1 / 68				QPSK	1 / 26	21.73	19.95	23.94
			QPSK	1 / 137				QPSK	1 / 53	21.67	19.72	23.81
			QPSK	1 / 205				QPSK	1 / 79	21.45	19.66	23.66
			16Q	1 / 68				16Q	1 / 26	21.63	19.94	23.88

Table 7-191. Conducted Power Data (ULCA NR Bands n41 – n71)

FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 127 of 242



## 7.6 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 minimum permissible attenuation level for Band 30 is  $> 43 + 10 \log_{10} (P[\text{Watts}]$  at 2300-2305MHz & 2345-2360MHz,  $> 55 + 10 \log_{10} (P[\text{Watts}]$  at 2320-2324MHz & 2341-2345MHz,  $> 61 + 10 \log_{10} (P[\text{Watts}]$  at 2324-2328MHz & 2337-2341MHz,  $> 67 + 10 \log_{10} (P[\text{Watts}]$  at 2288-2292MHz & 2328-2337MHz, and  $> 70 + 10 \log_{10} (P[\text{Watts}]$  at frequencies  $< 2288\text{MHz}$  &  $> 2365\text{MHz}$ .***

***The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.***

### 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.

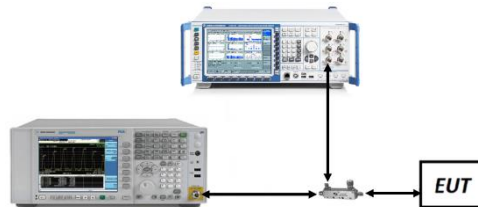






Figure 7-5. Test Instrument & Measurement Setup

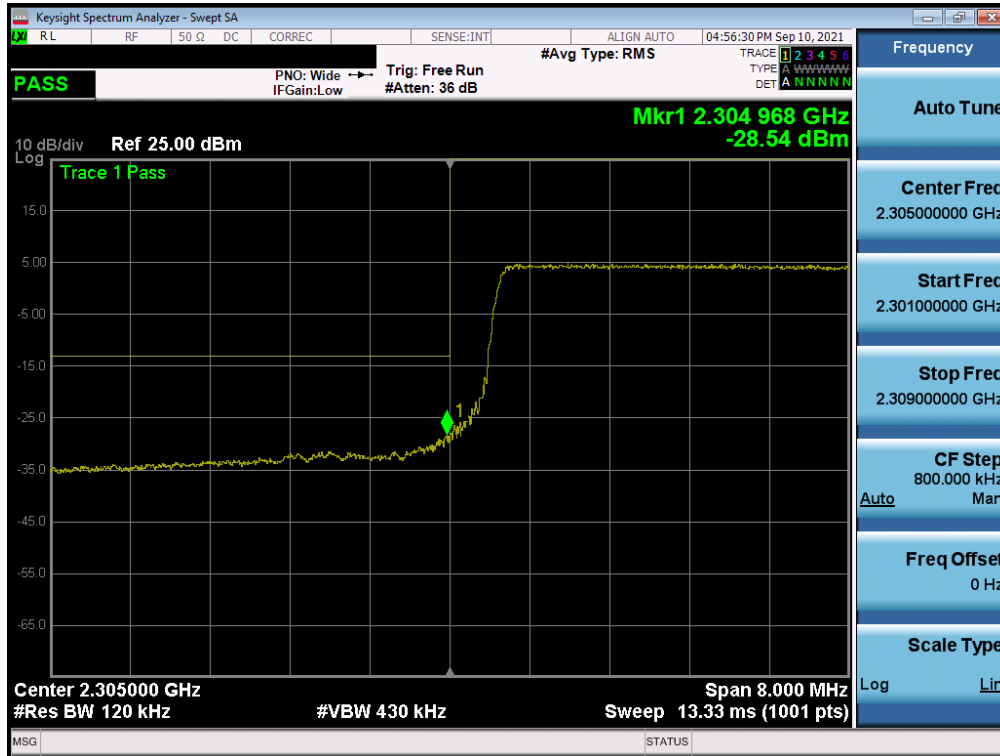
FCC ID: A3LSMS901U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 128 of 242

## Test Notes

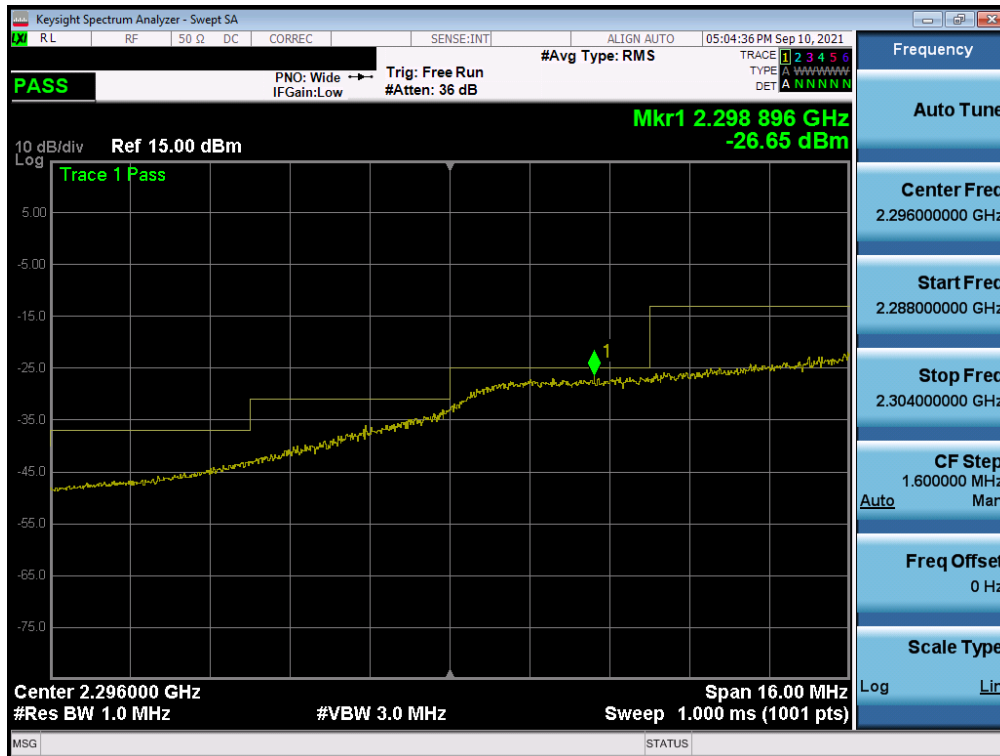
1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). 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. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz.
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 are reported in this section.

FCC ID: A3LSMS901U	 <b>PART 27 MEASUREMENT REPORT</b> 		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset	Page 129 of 242

### LTE Band 30 – Ant B

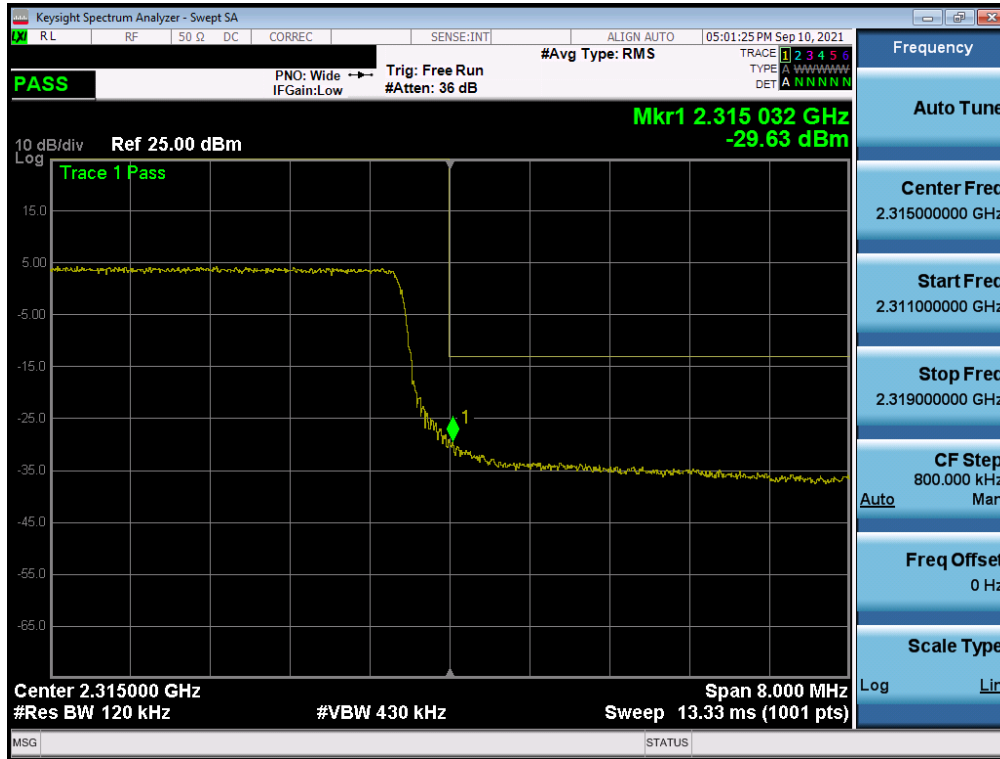


Plot 7-192. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB – Ant B)

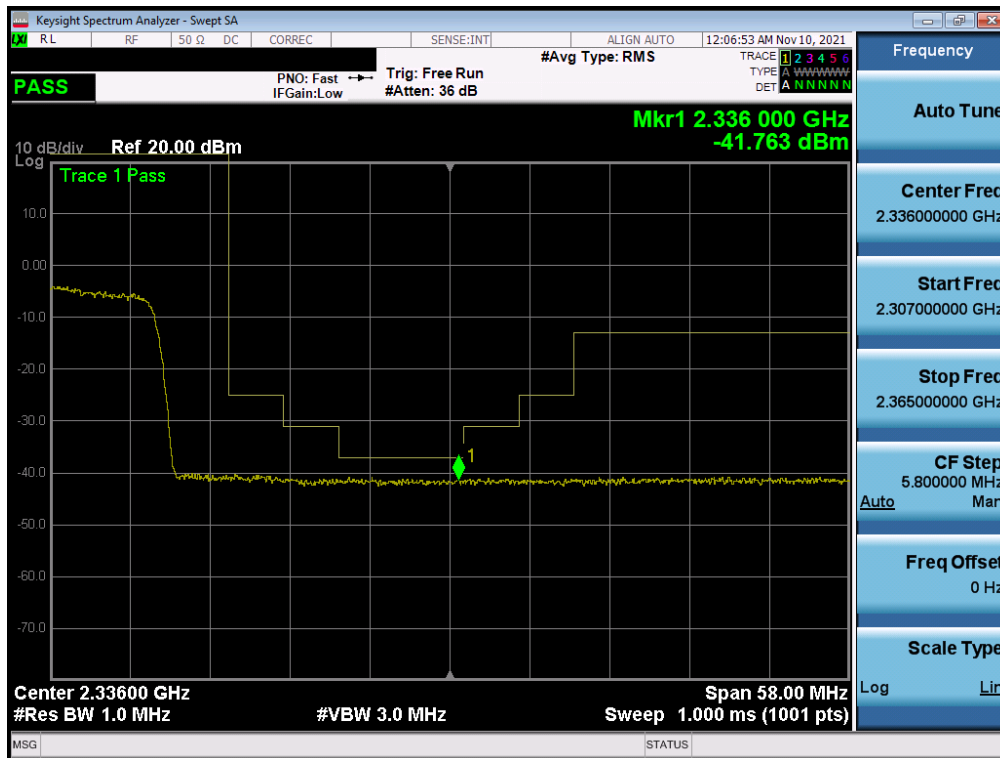


Plot 7-193. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB – Ant B)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 130 of 242

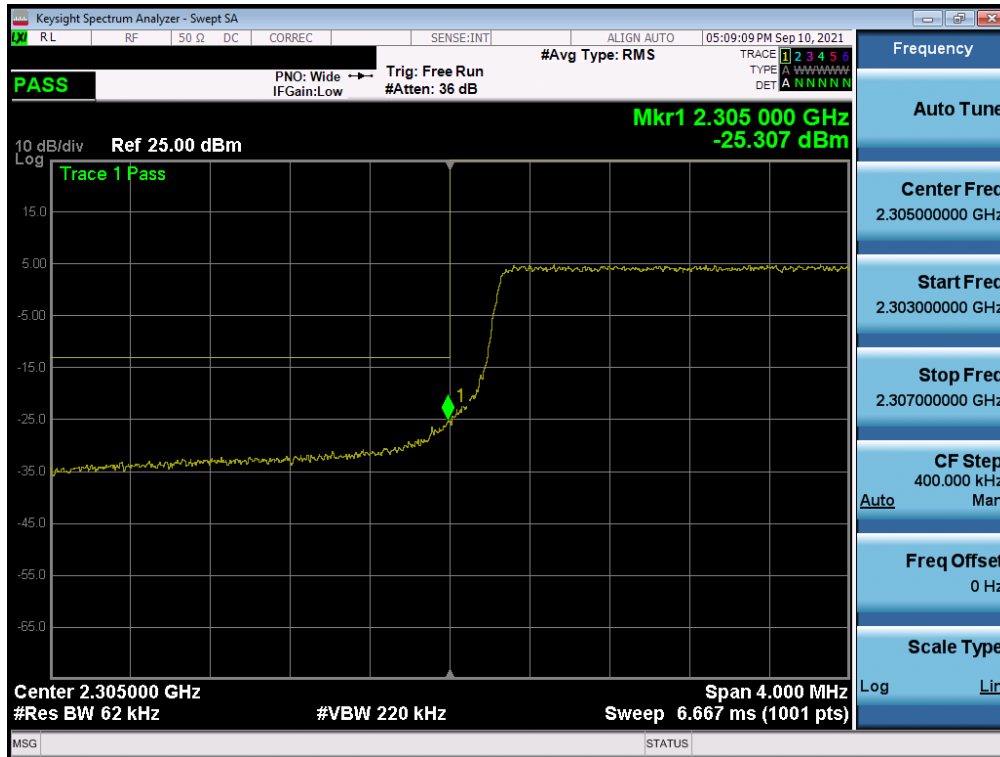


Plot 7-194. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB – Ant B)



Plot 7-195. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB – Ant B)

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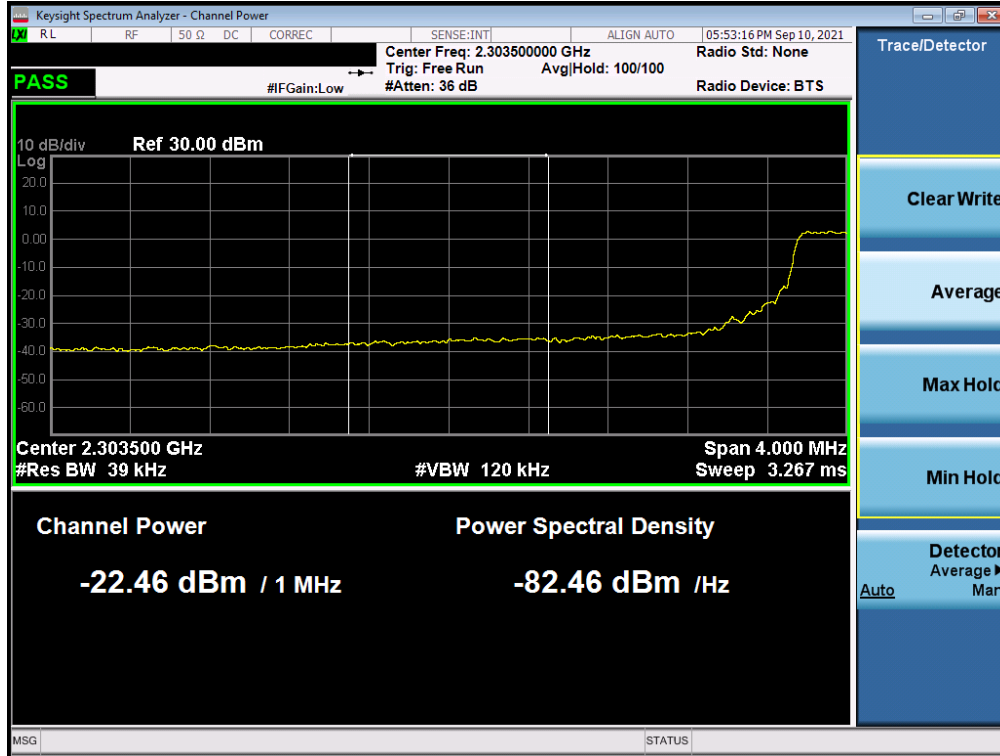


Plot 7-196. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB – Ant B)



Plot 7-197. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB – Ant B)




FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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Plot 7-198. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB – Ant B)






Plot 7-199. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB – Ant B)

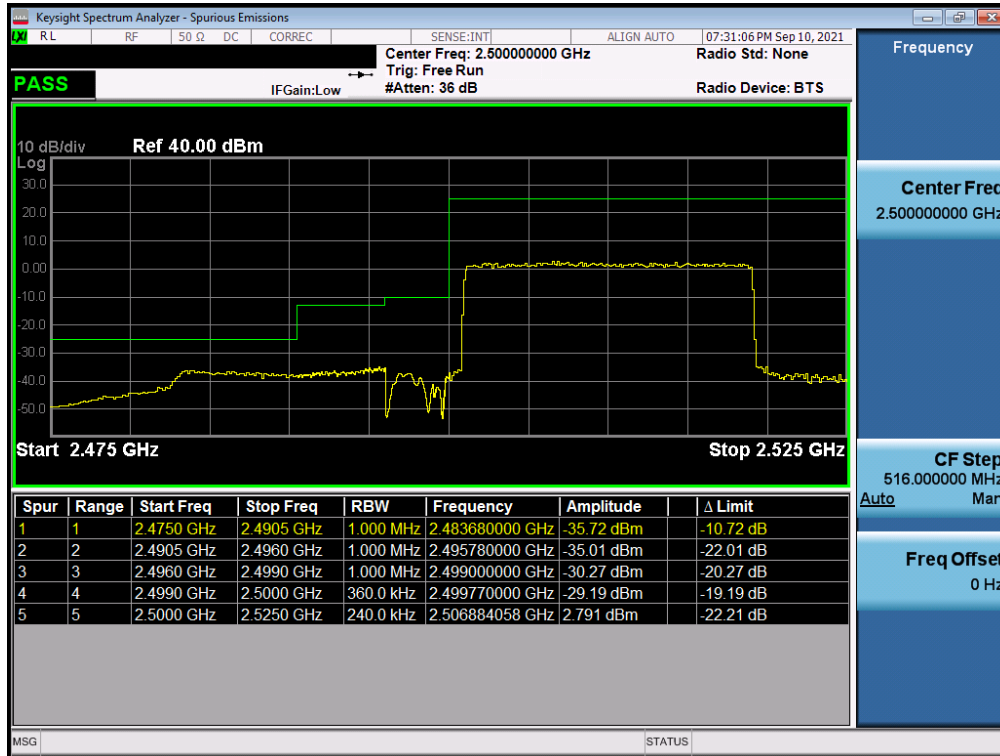
FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 – 11/10/2021	EUT Type: Portable Handset		Page 133 of 242



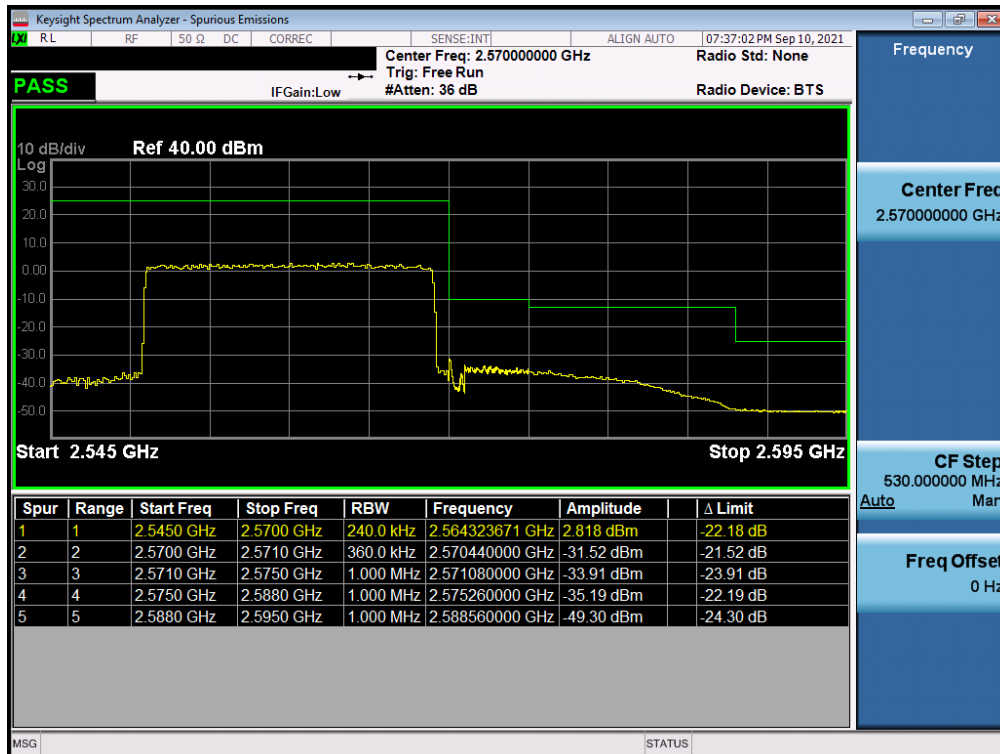
Plot 7-200. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB – Ant B)

FCC ID: A3LSMS901U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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# LTE Band 7



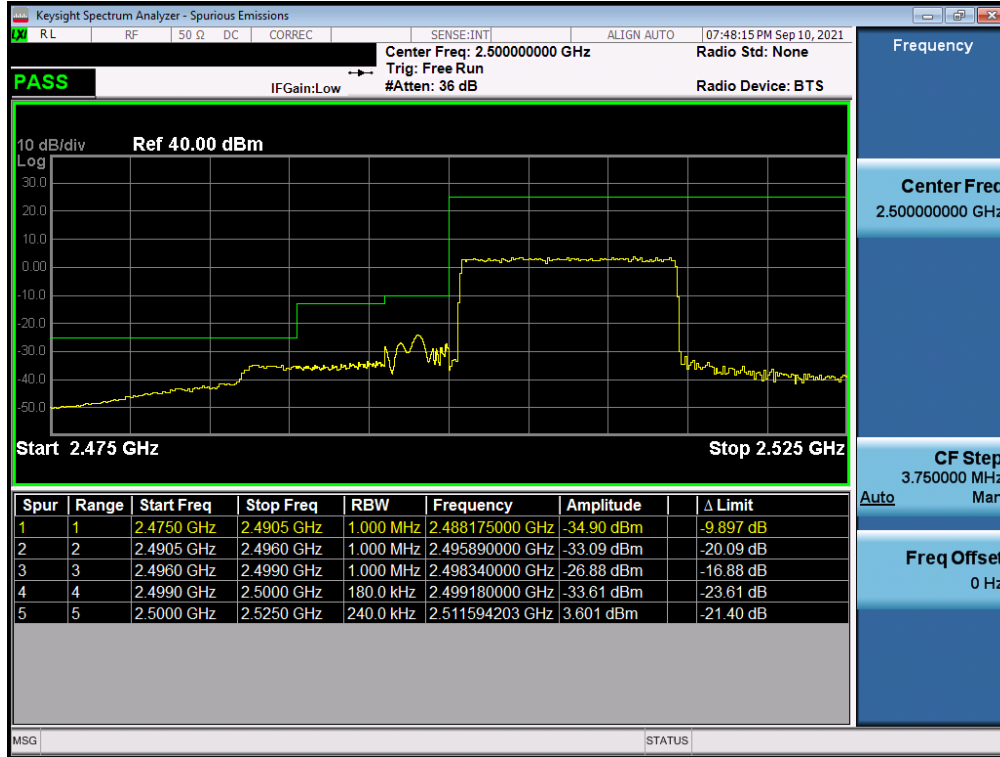
Plot 7-201. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB)



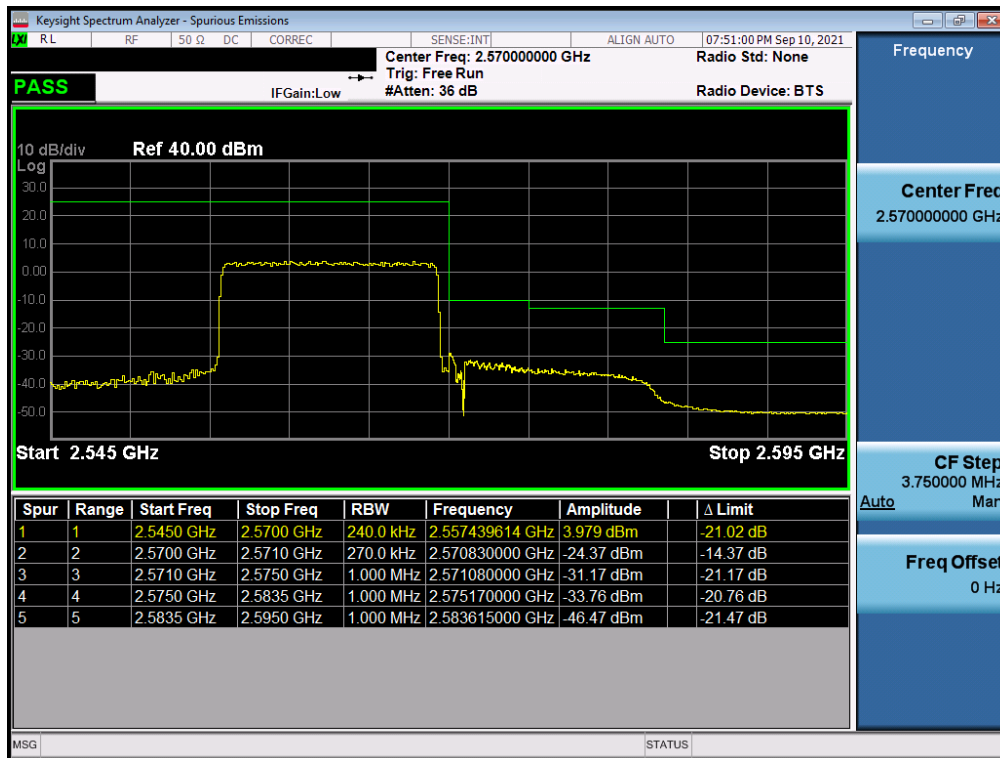
Plot 7-202. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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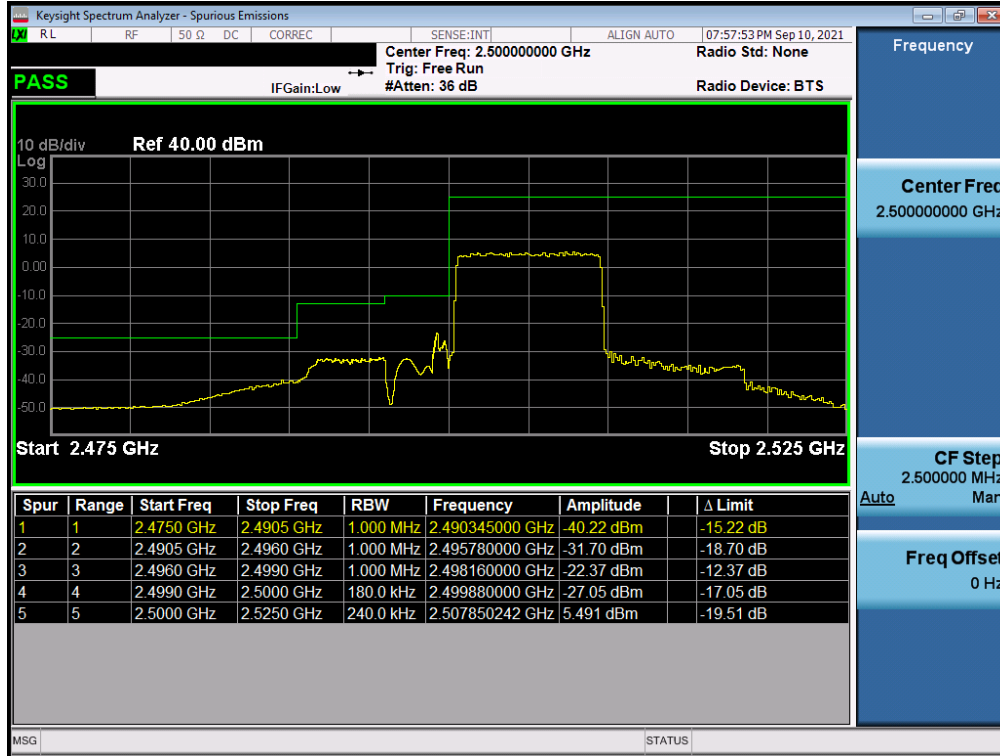


Plot 7-203. Lower ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB)

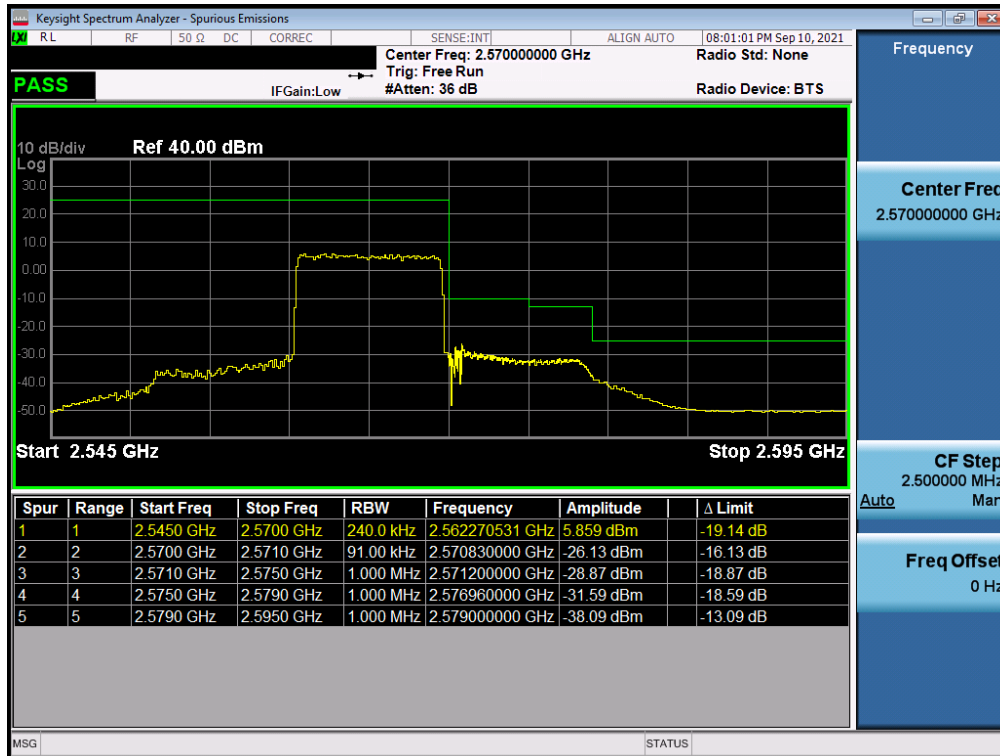


Plot 7-204. Upper ACP Plot (LTE Band 7 - 15MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
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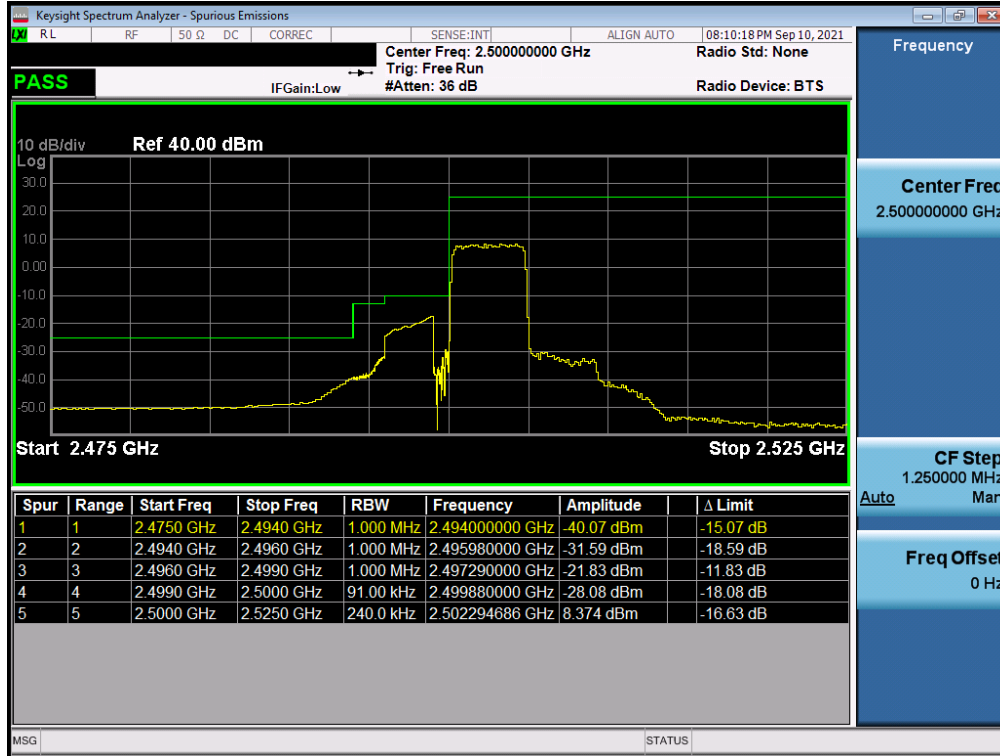


Plot 7-205. Lower ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB)

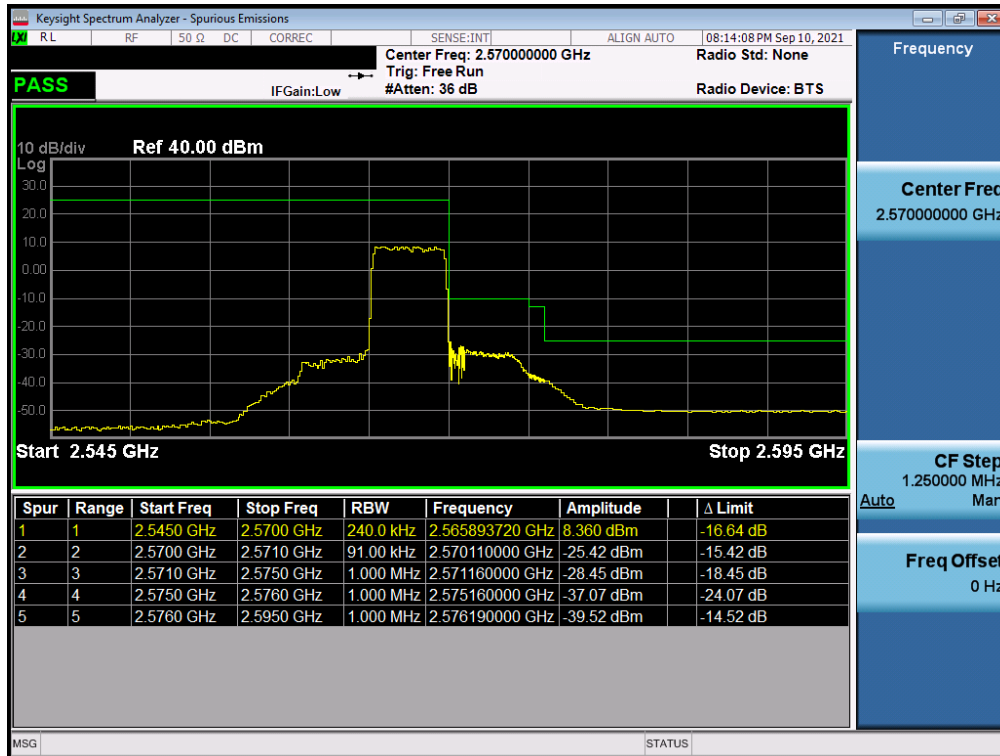


Plot 7-206. Upper ACP Plot (LTE Band 7 - 10MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
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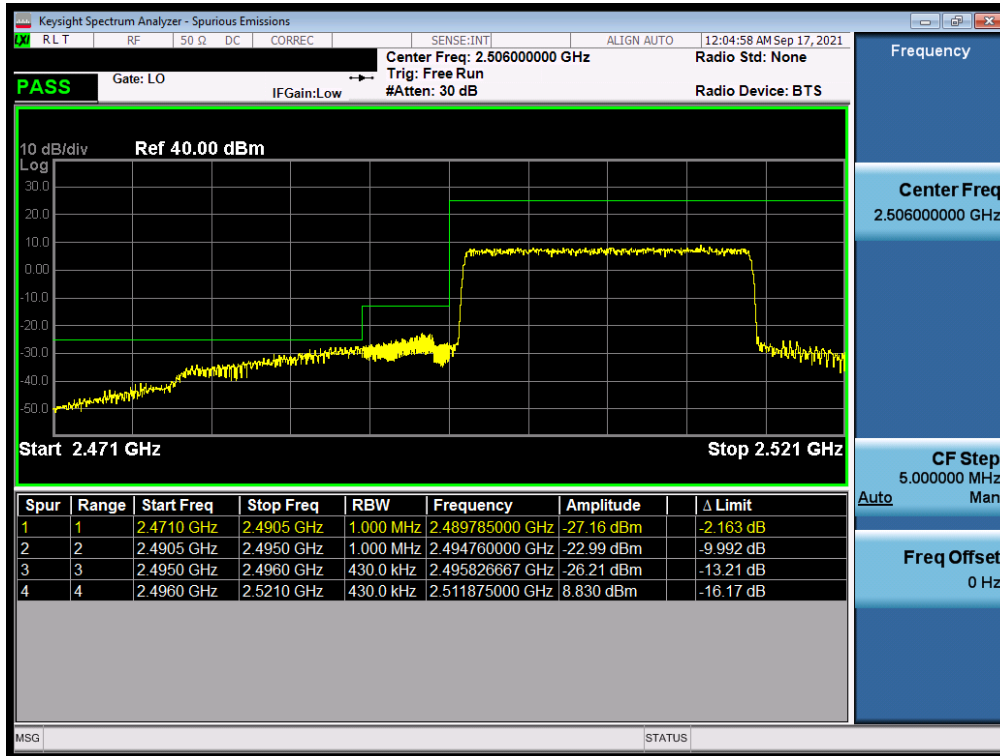
Plot 7-207. Lower ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB)



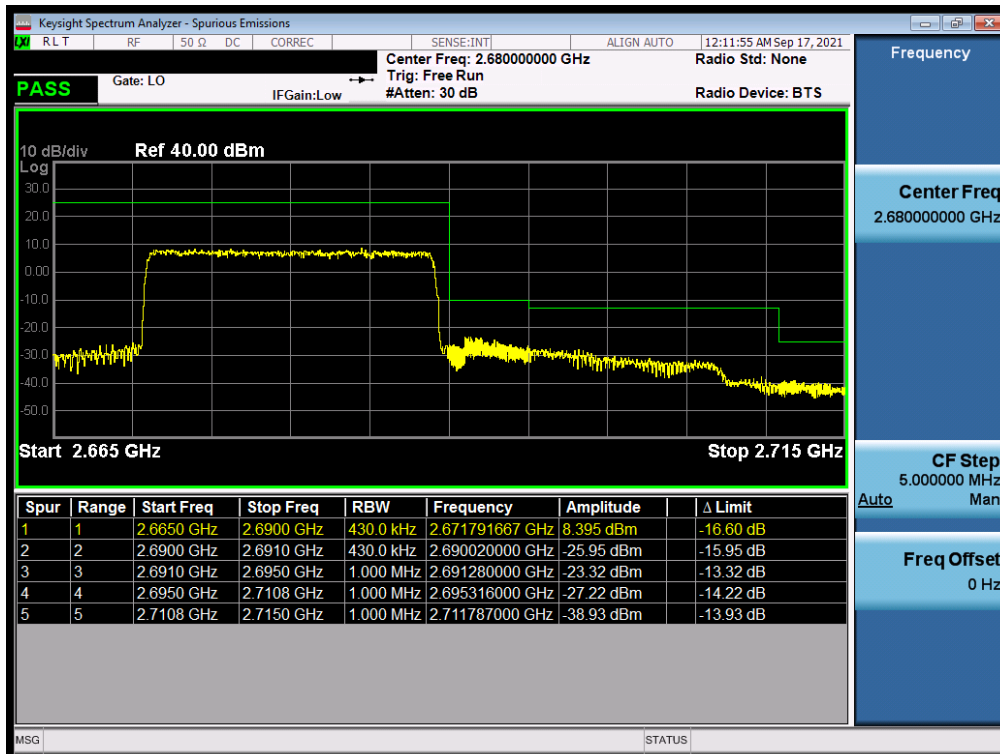
Plot 7-208. Upper ACP Plot (LTE Band 7 - 5MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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# LTE Band 41(PC2)

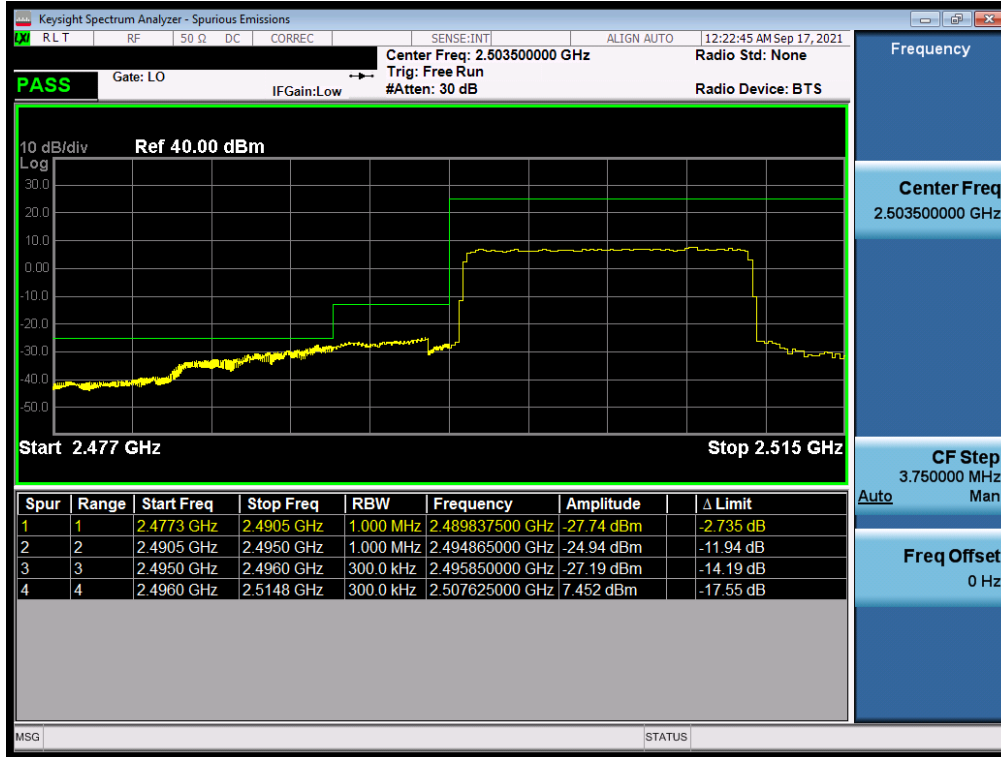


Plot 7-209. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB )

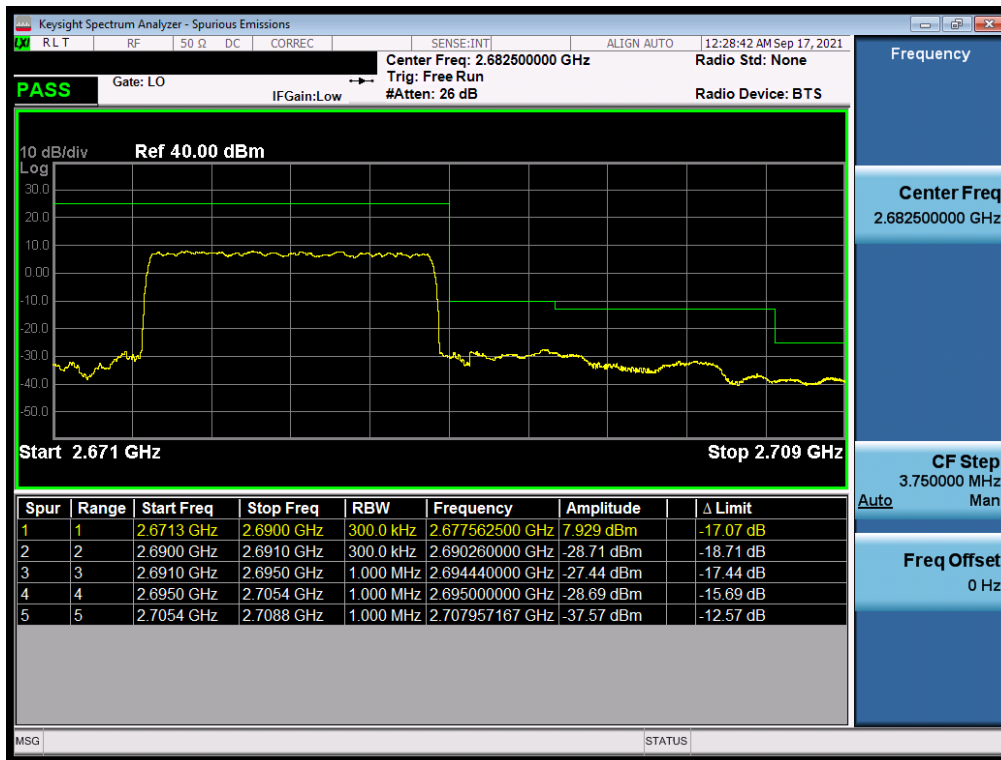


Plot 7-210. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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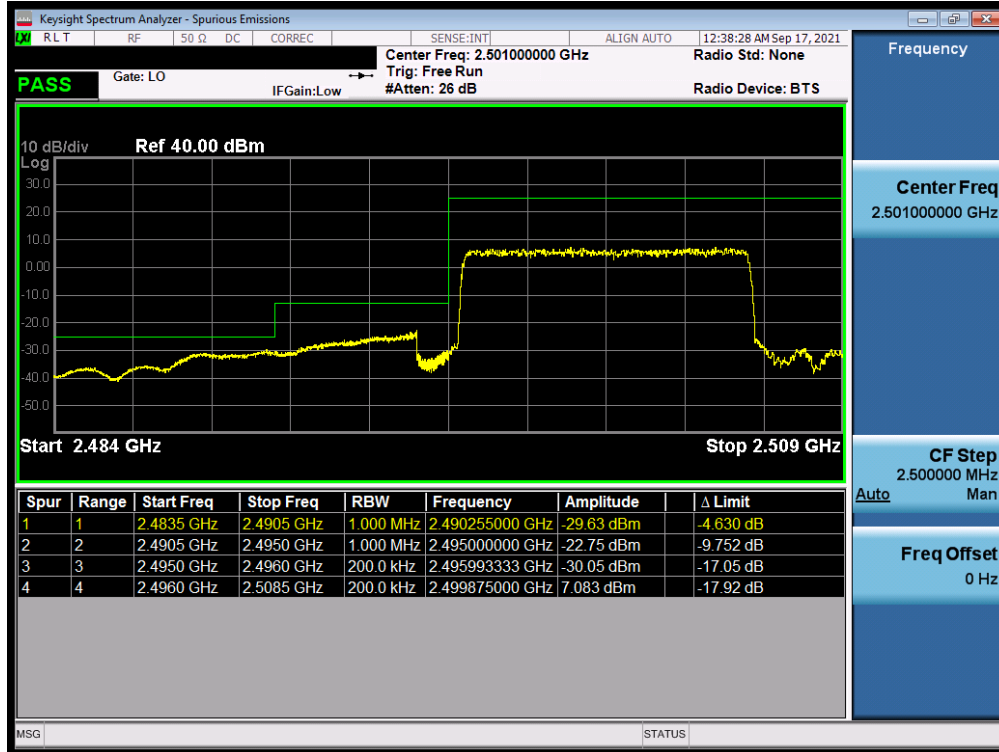


Plot 7-211. Lower ACP Plot (LTE Band 41(PC2) - 15MHz QPSK - Full RB)

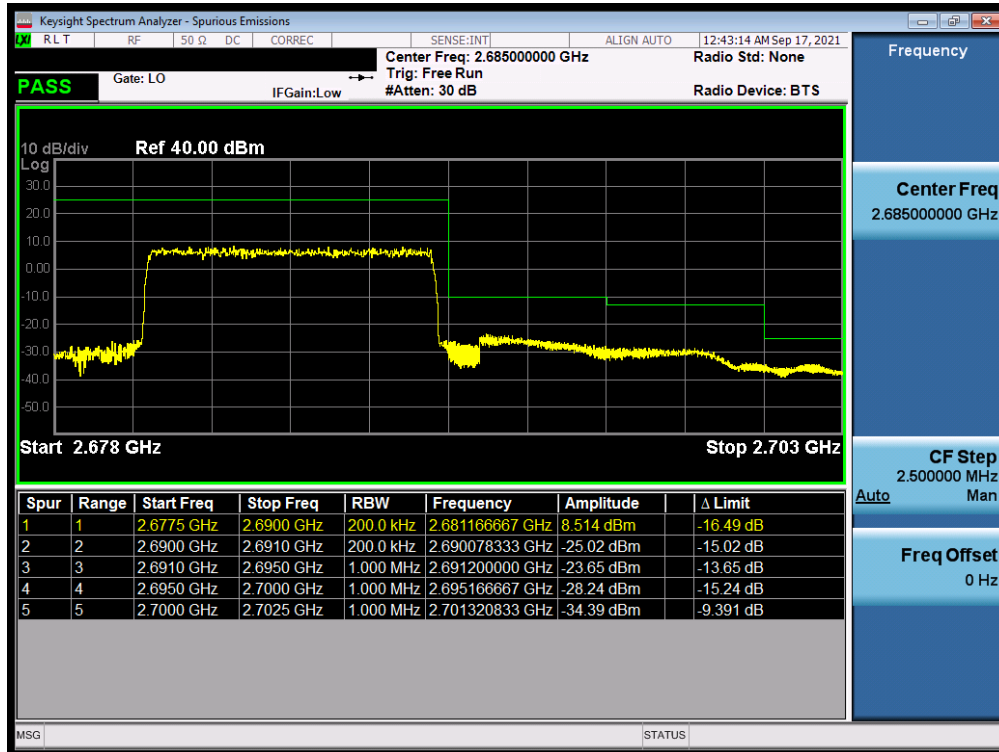


Plot 7-212. Upper ACP Plot (LTE Band 41(PC2) - 15MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2109080099-05-R3.A3L	Test Dates: 09/08/2021 - 11/10/2021	EUT Type: Portable Handset	Page 140 of 242

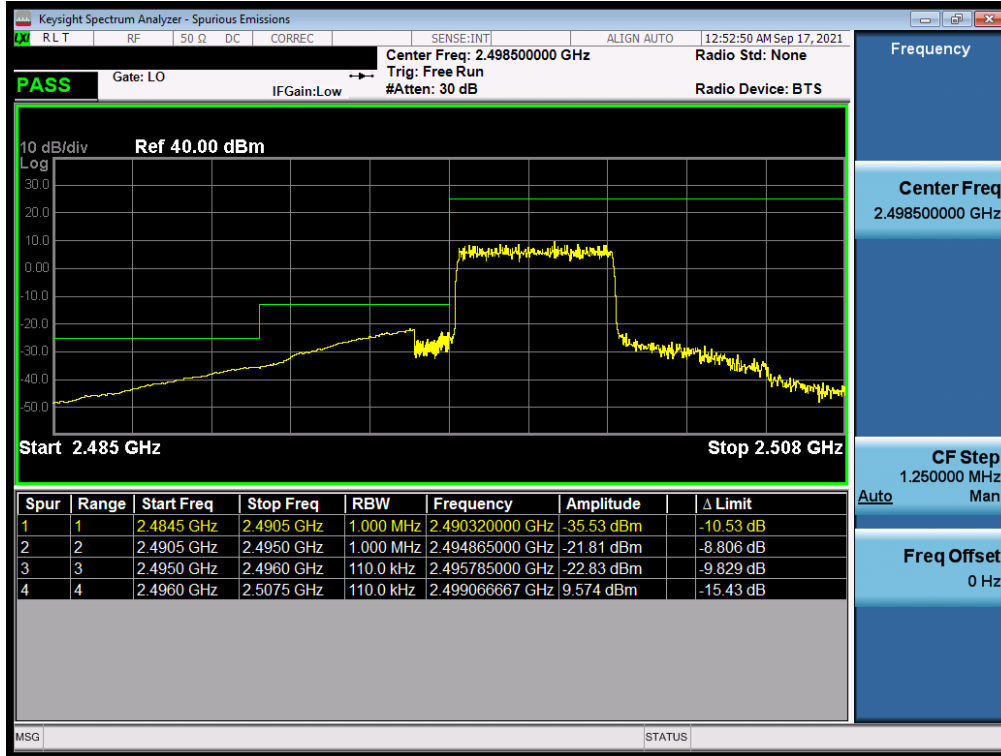


Plot 7-213. Lower ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB)

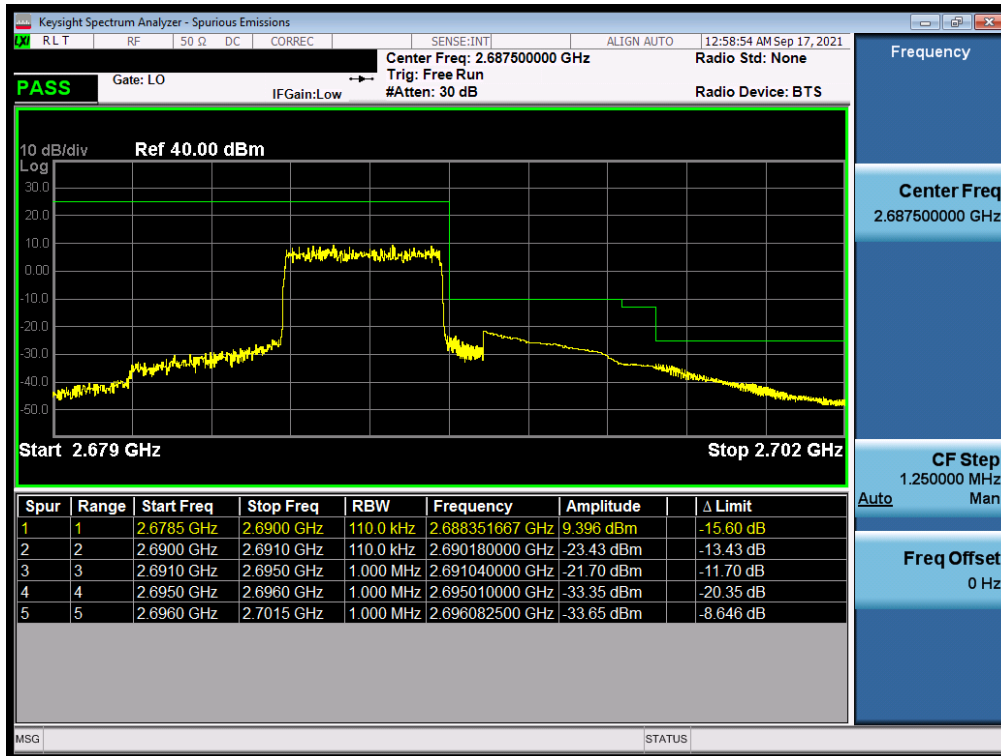


Plot 7-214. Upper ACP Plot (LTE Band 41(PC2) - 10MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
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Plot 7-215. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB)

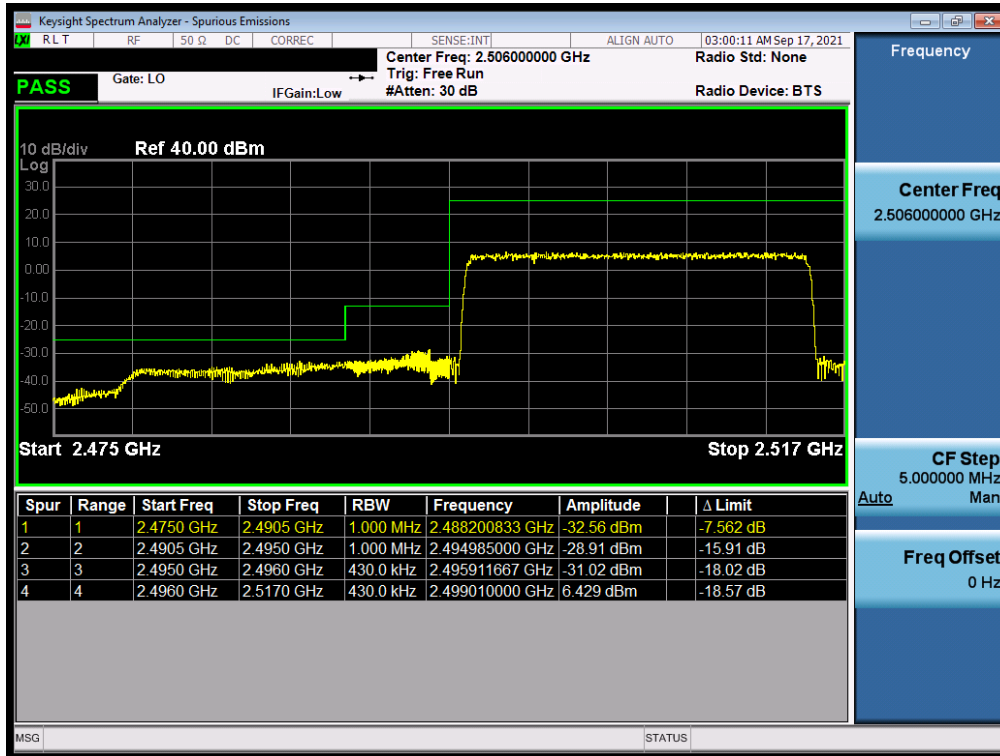


Plot 7-216. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
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# LTE Band 41(PC3)



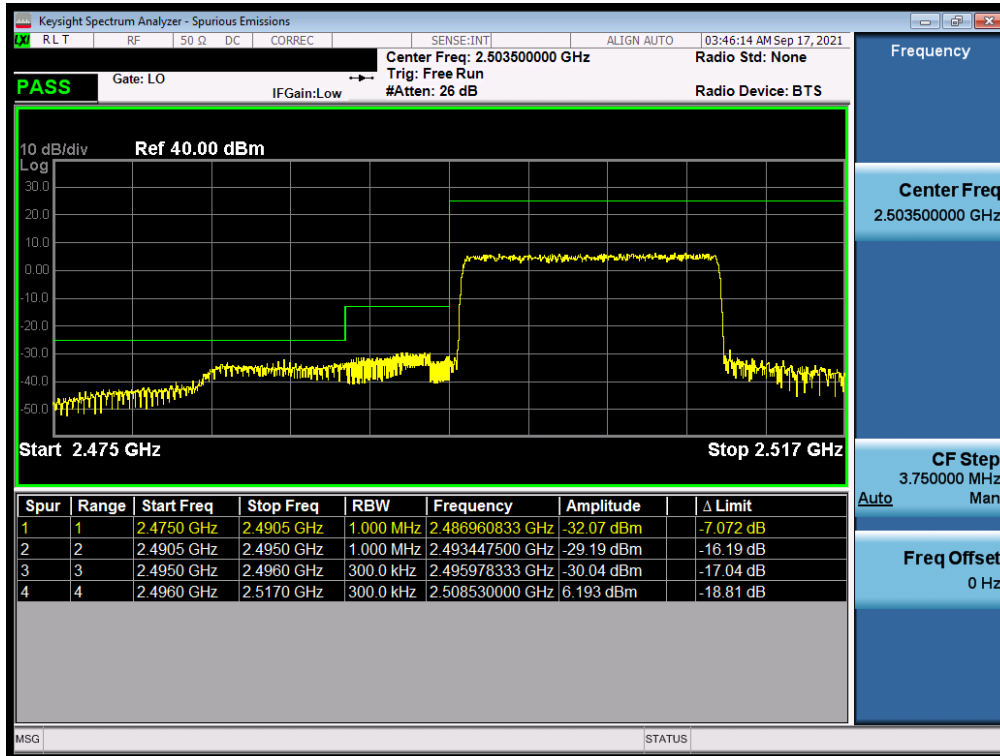
Plot 7-217. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB)



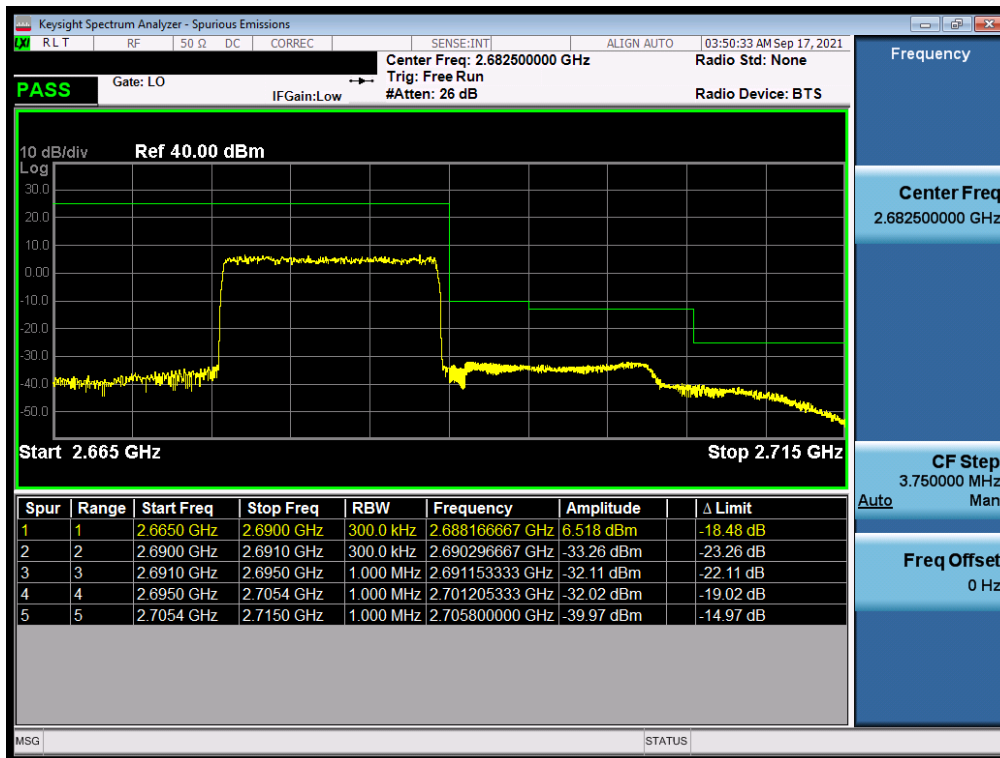
Plot 7-218. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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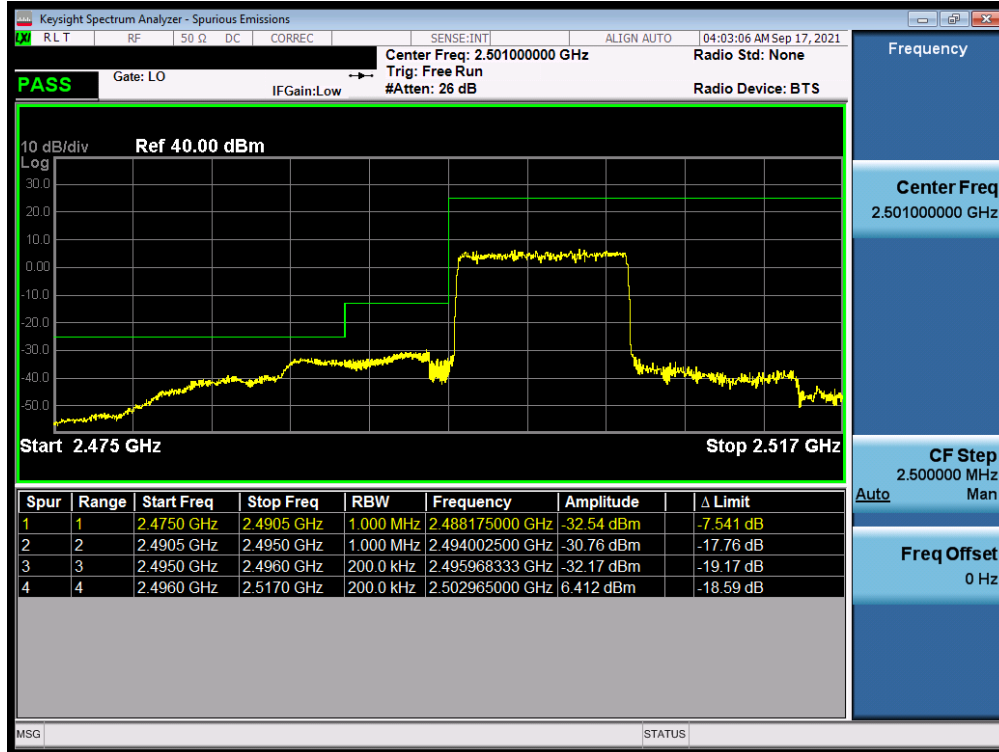


Plot 7-219. Lower ACP Plot (LTE Band 41(PC3) - 15MHz QPSK - Full RB)

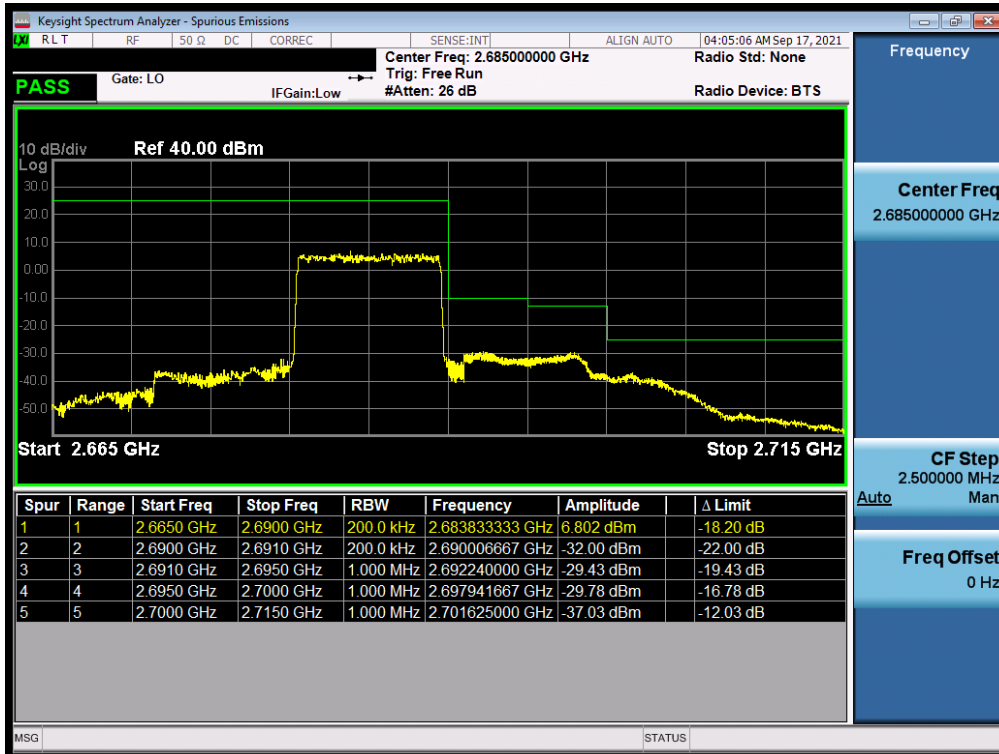


Plot 7-220. Upper ACP Plot (LTE Band 41(PC3) - 15MHz QPSK - Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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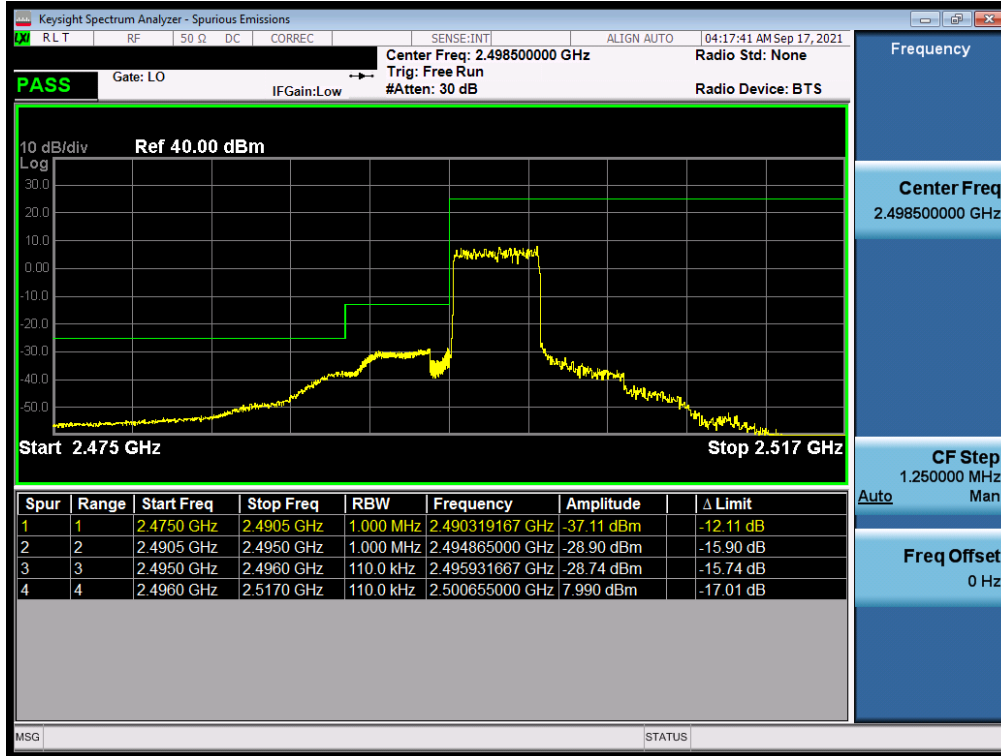


Plot 7-221. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB)

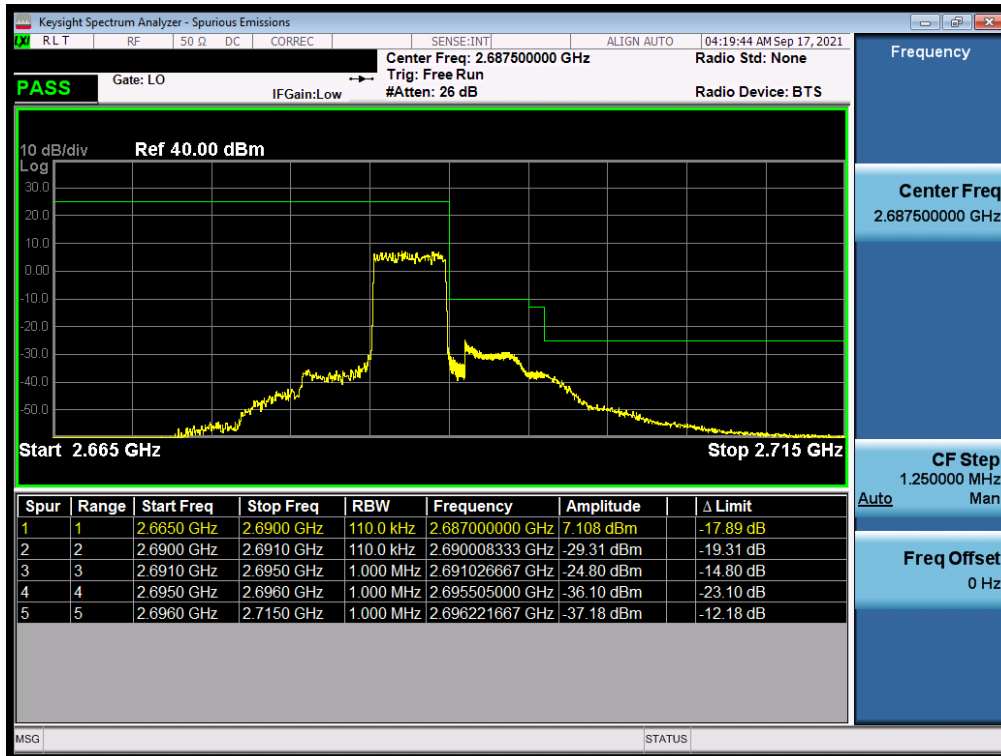


Plot 7-222. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
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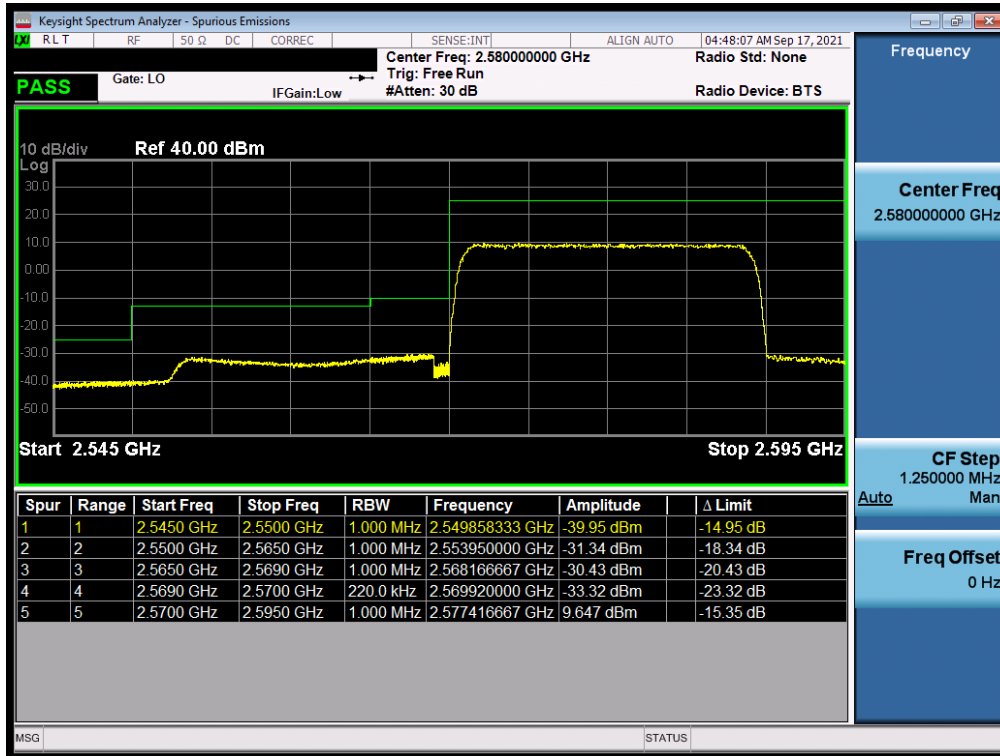
Plot 7-223. Lower ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB)



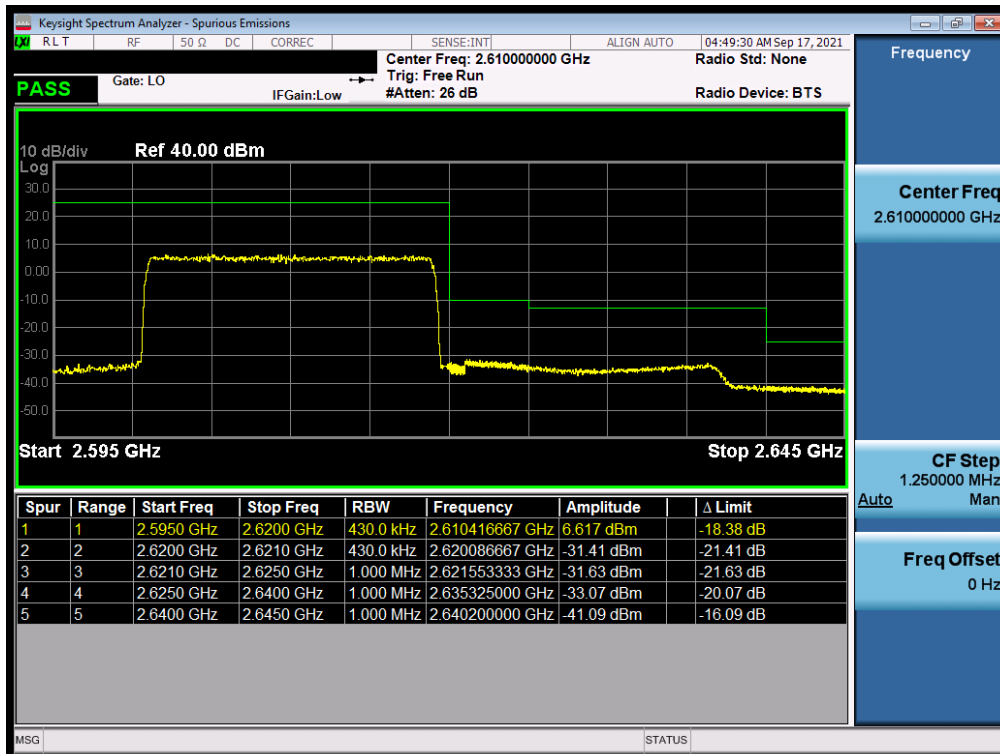
Plot 7-224. Upper ACP Plot (LTE Band 41(PC3) - 5MHz QPSK – Full RB )

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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# LTE Band 38

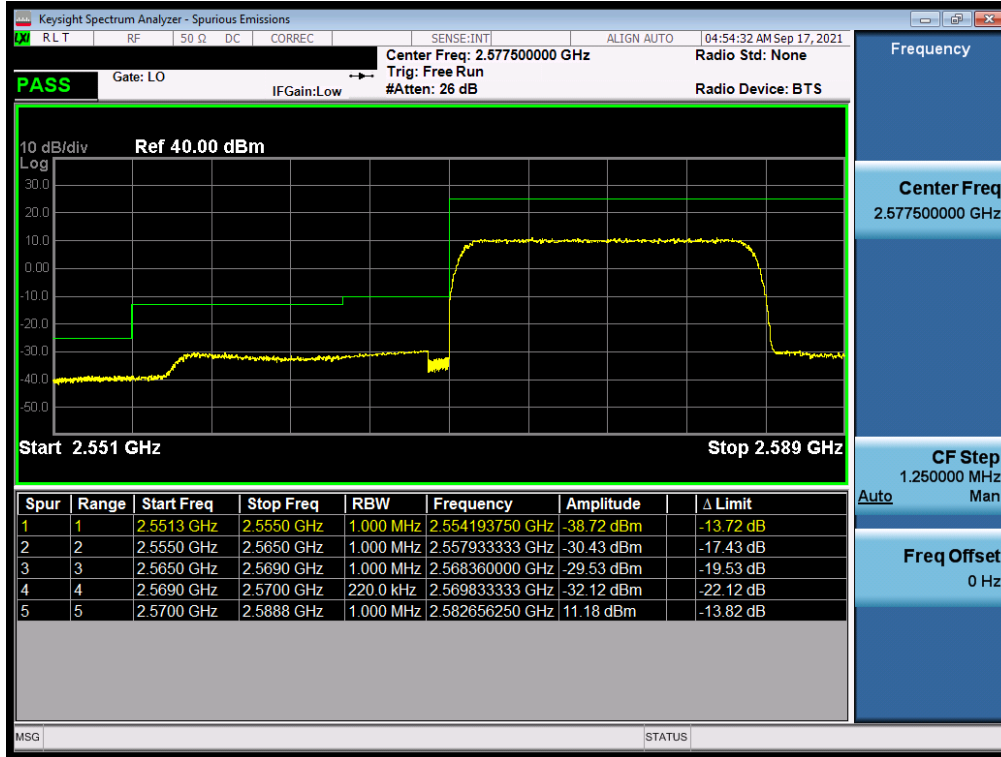


Plot 7-225. Lower Band Edge Plot (LTE Band 38 - 20MHz QPSK – Full RB)

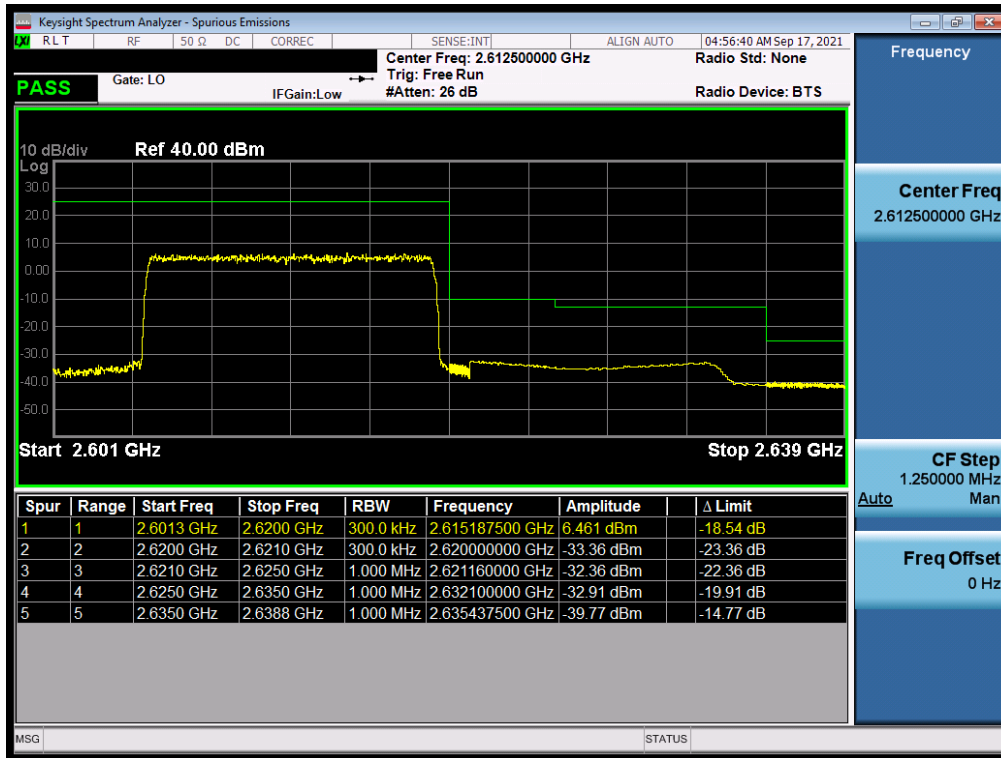


Plot 7-226. Upper Band Edge Plot (LTE Band 38 - 20MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
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Plot 7-227. Lower Band Edge Plot (LTE Band 38 - 15MHz QPSK – Full RB)



Plot 7-228. Upper Band Edge Plot (LTE Band 38 - 15MHz QPSK – Full RB)

FCC ID: A3LSMS901U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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