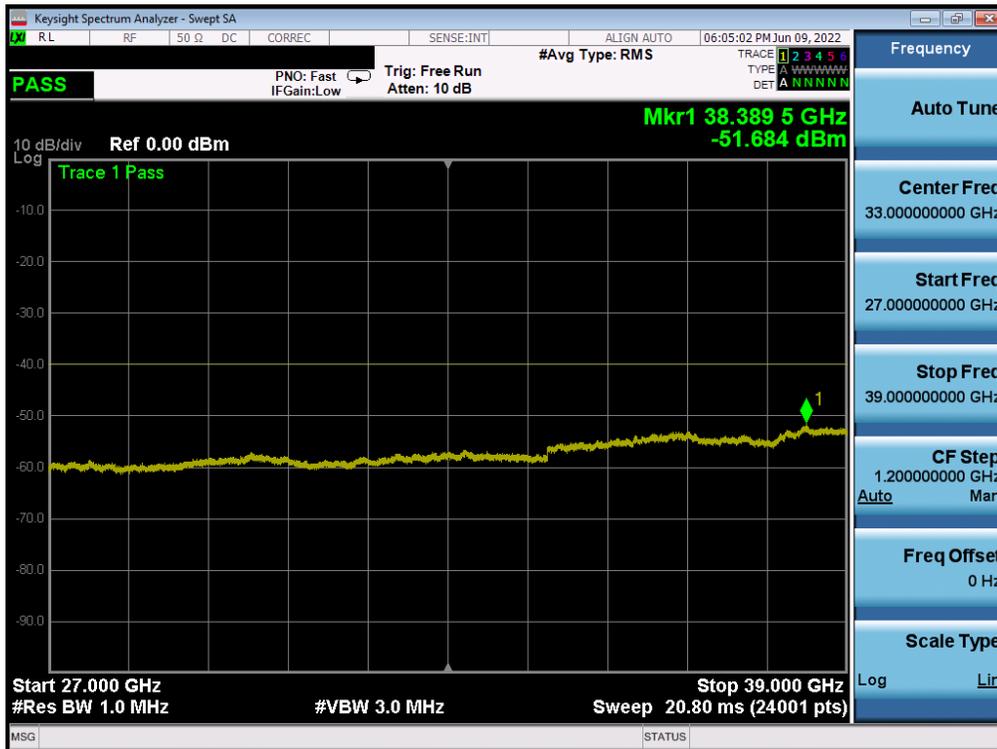




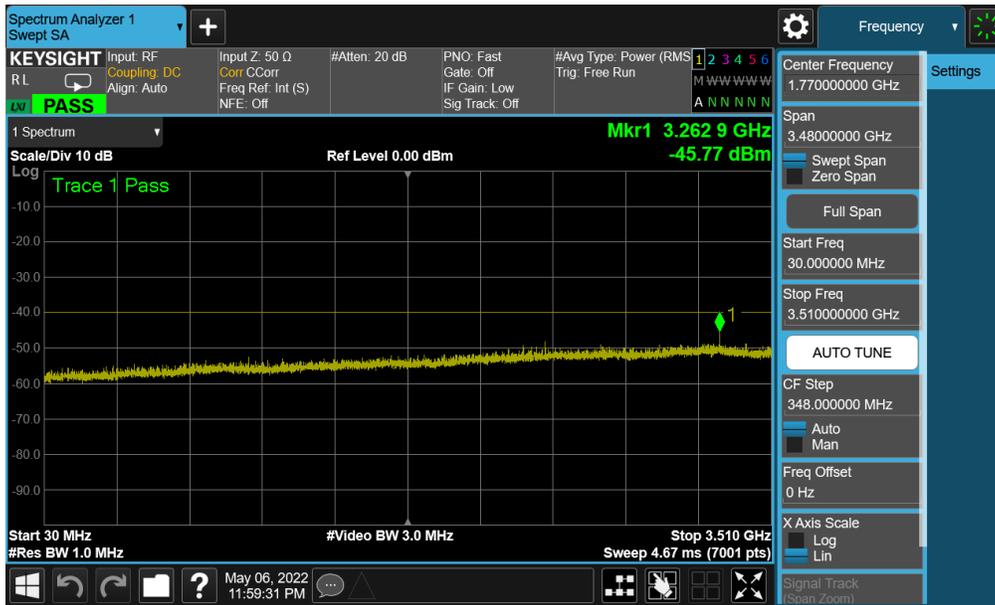
Plot 7-75. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant E)



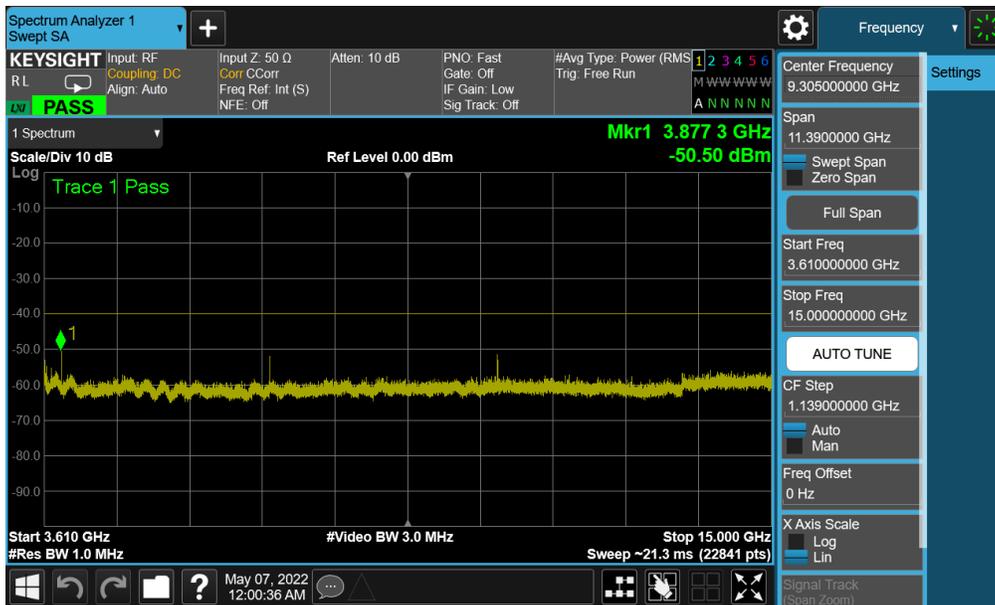
Plot 7-76. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant E)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n48 – Ant G

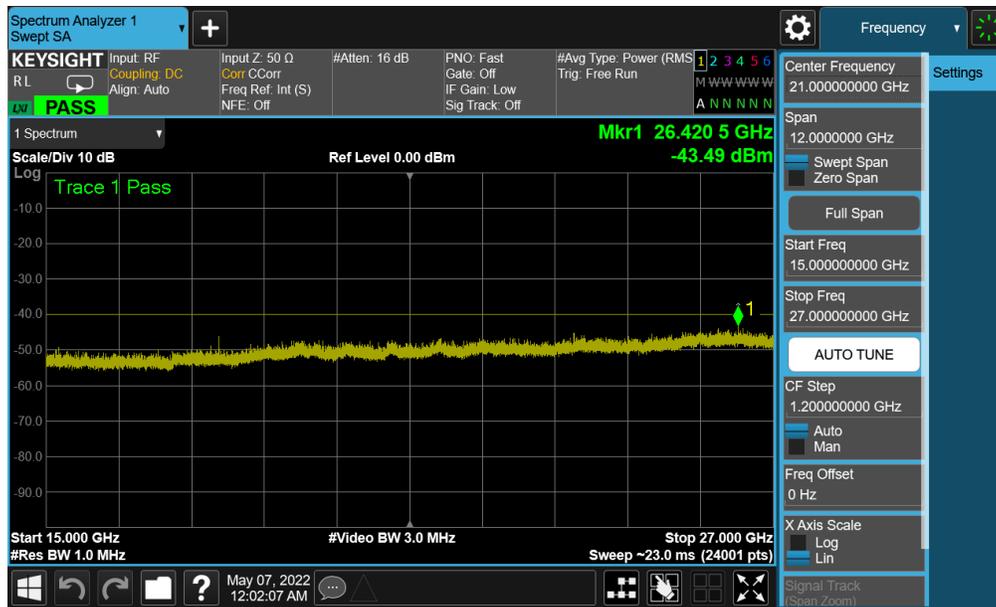


Plot 7-77. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant G)

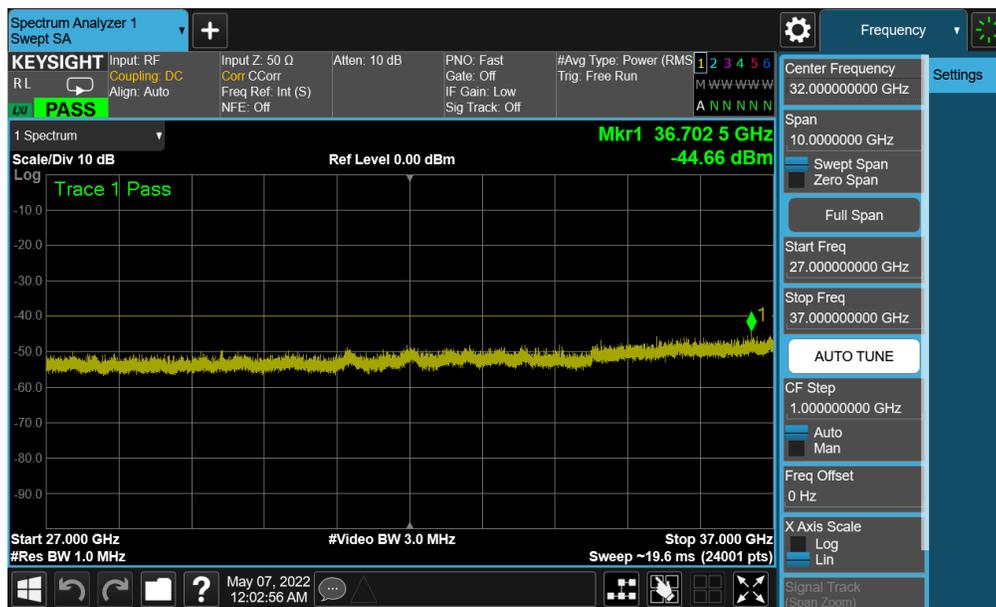


Plot 7-78. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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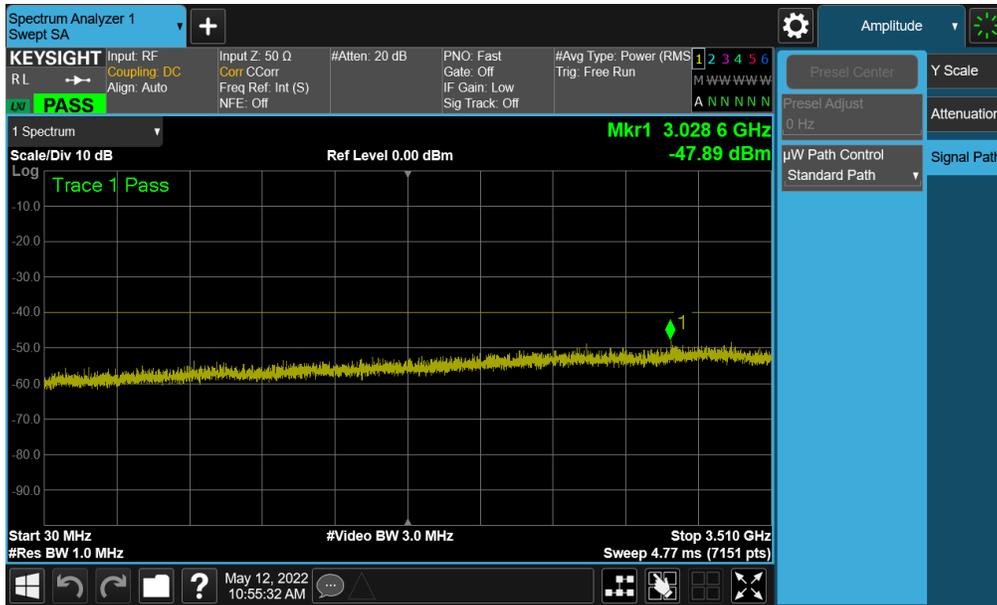


Plot 7-79. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant G)

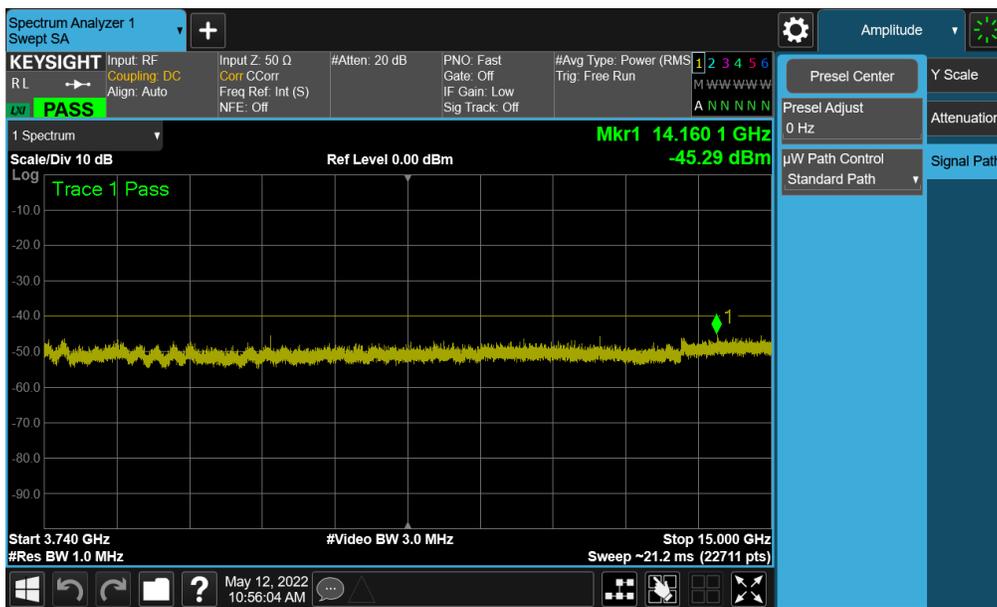


Plot 7-80. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 60 of 133

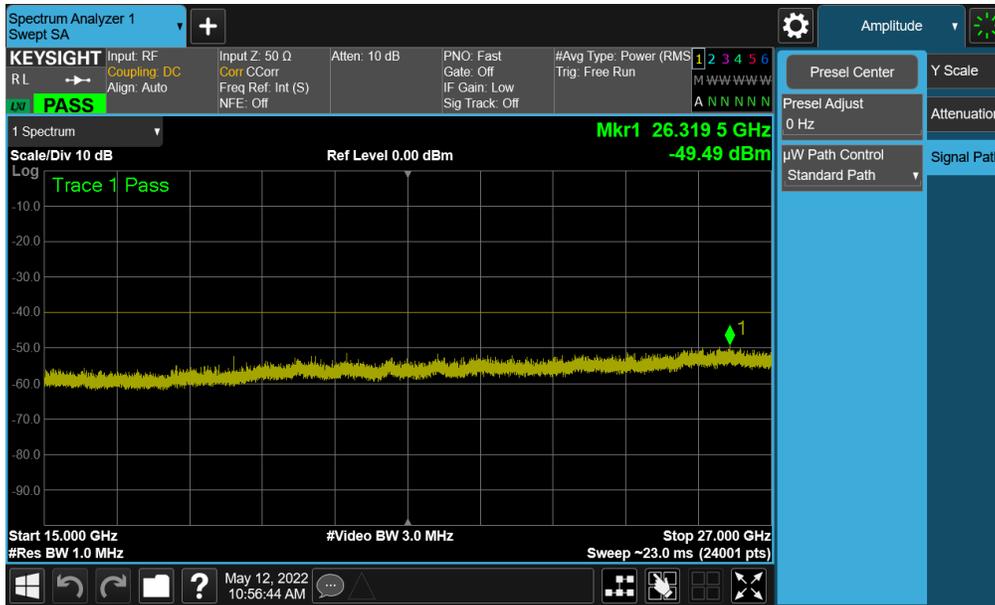


Plot 7-81. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant G)

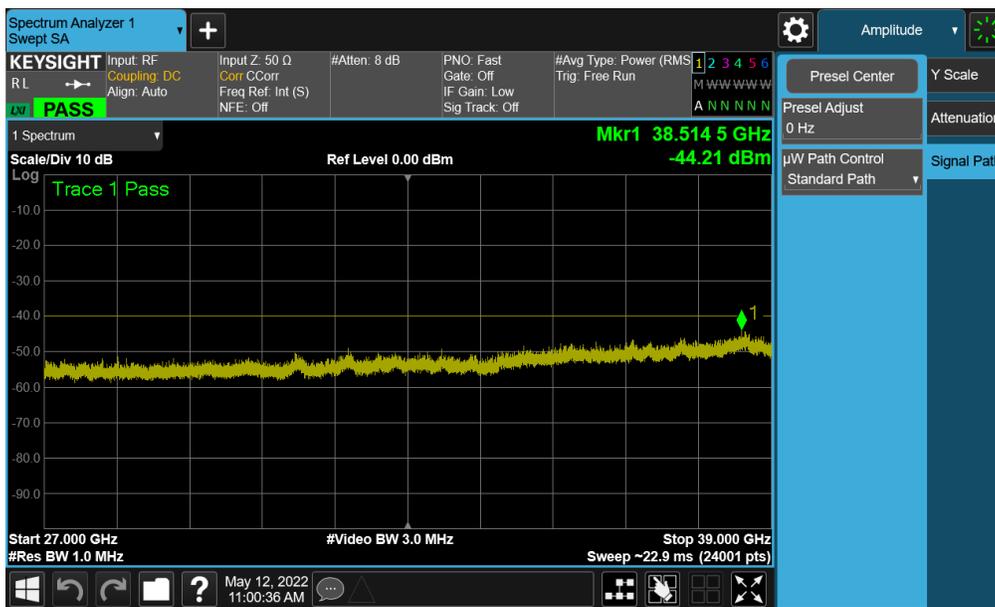


Plot 7-82. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 61 of 133

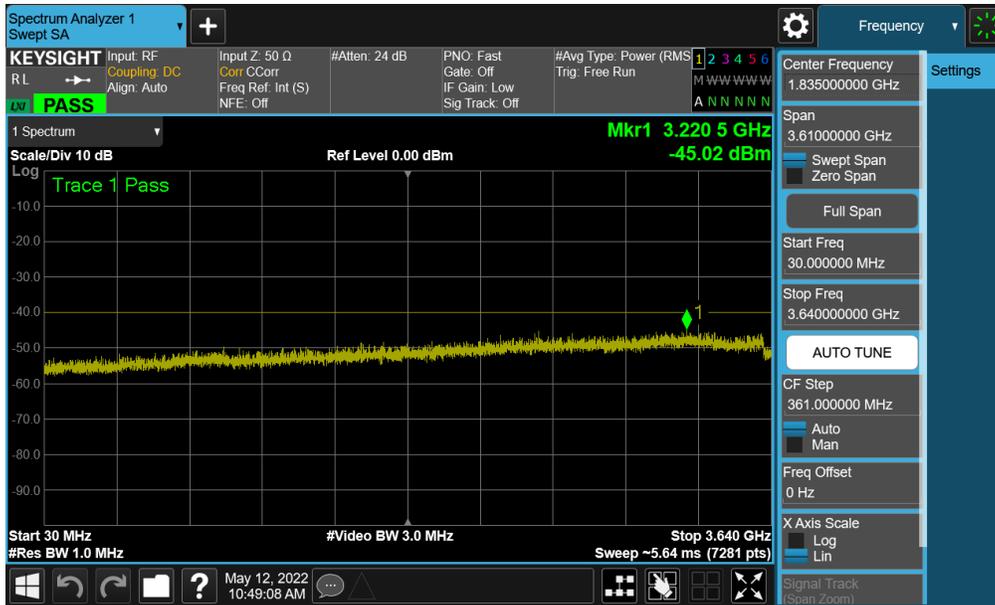


Plot 7-83. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant G)

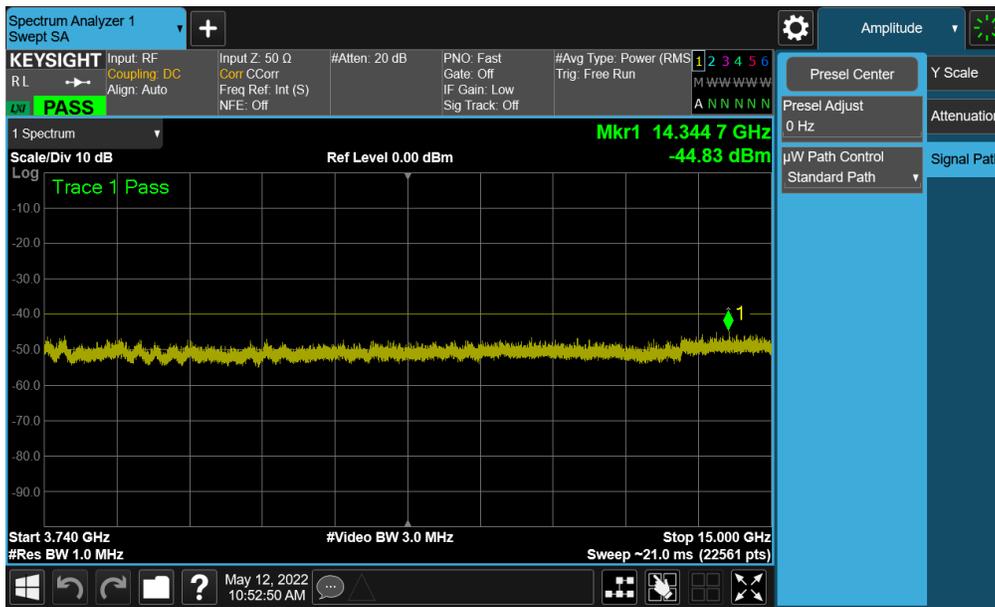


Plot 7-84. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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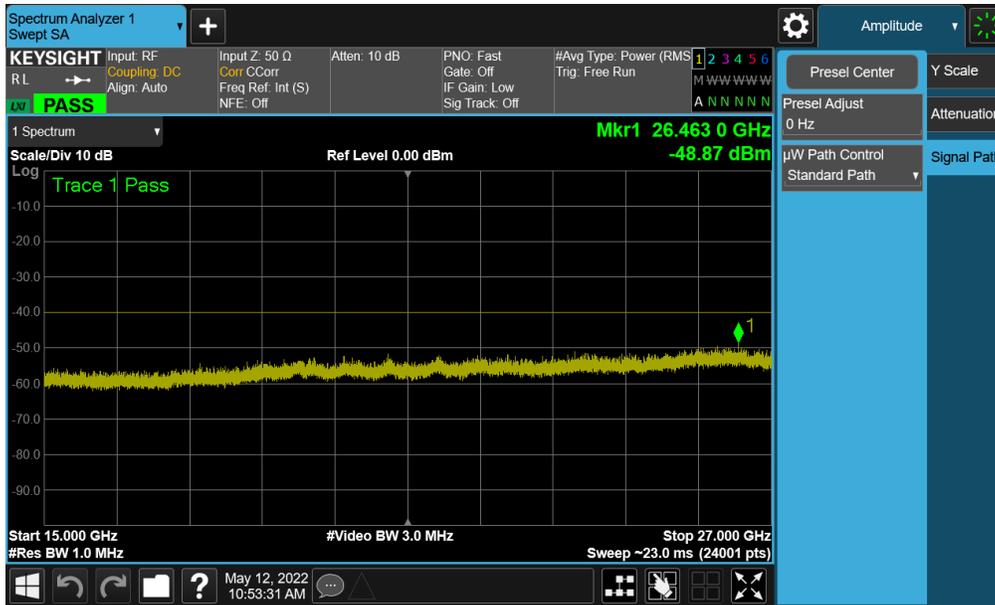


Plot 7-85. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant G)

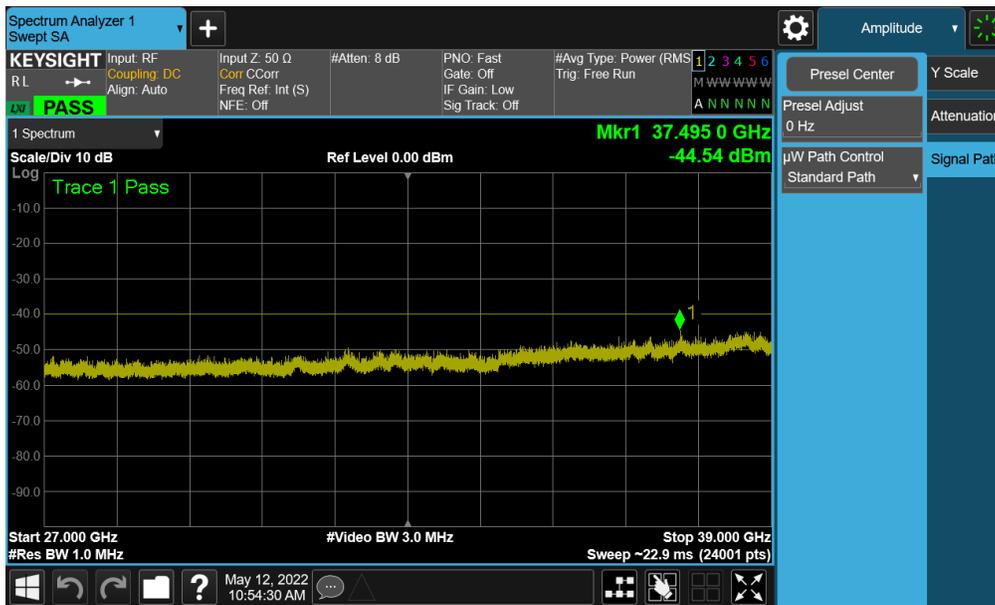


Plot 7-86. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 63 of 133



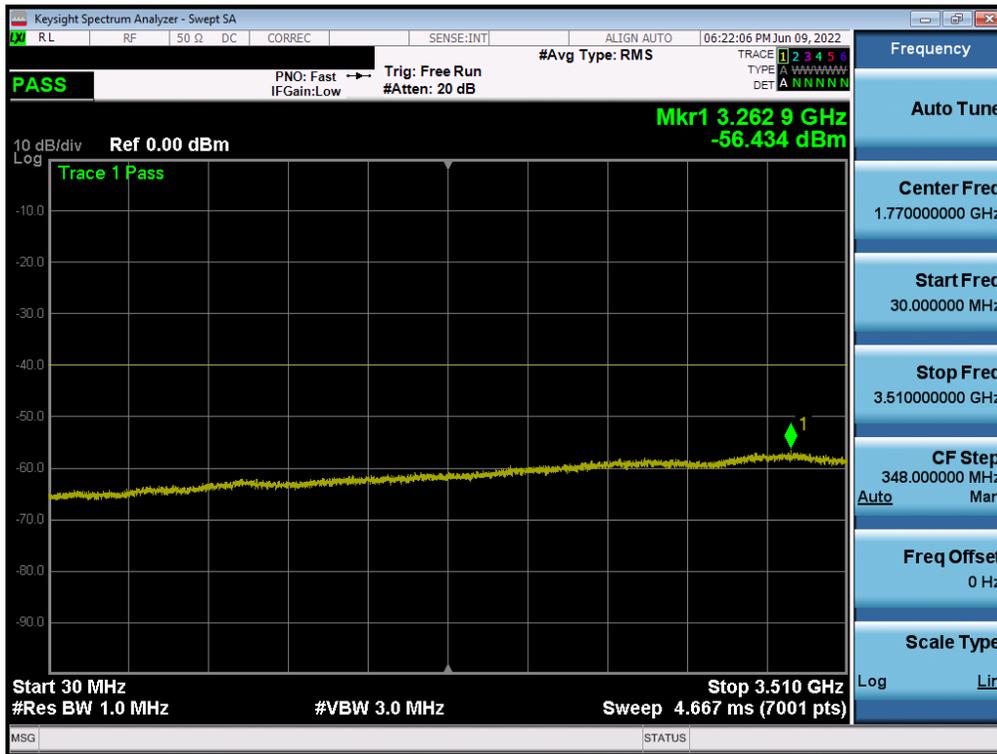
Plot 7-87. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant G)



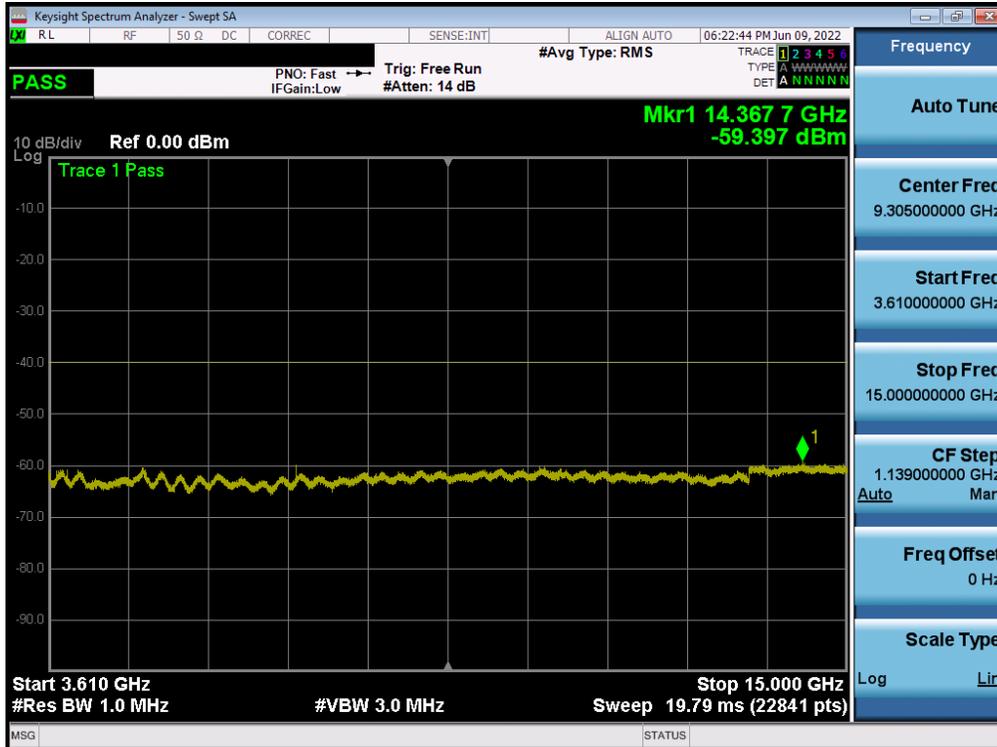
Plot 7-88. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n48 – Ant D



Plot 7-89. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)



Plot 7-90. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-91. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

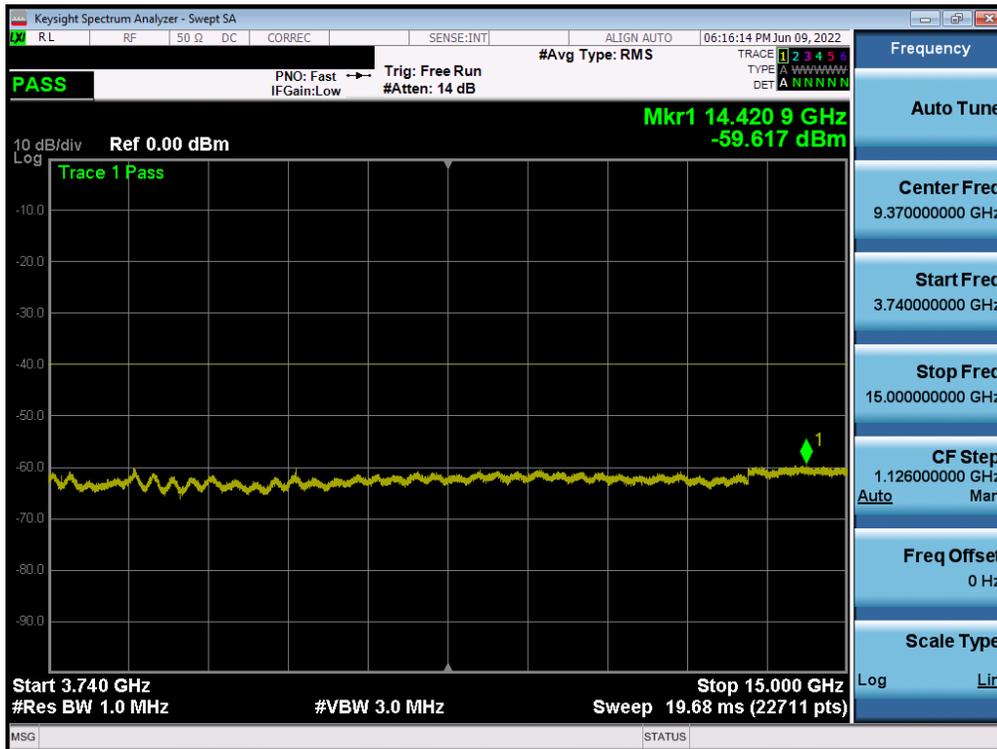


Plot 7-92. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 66 of 133

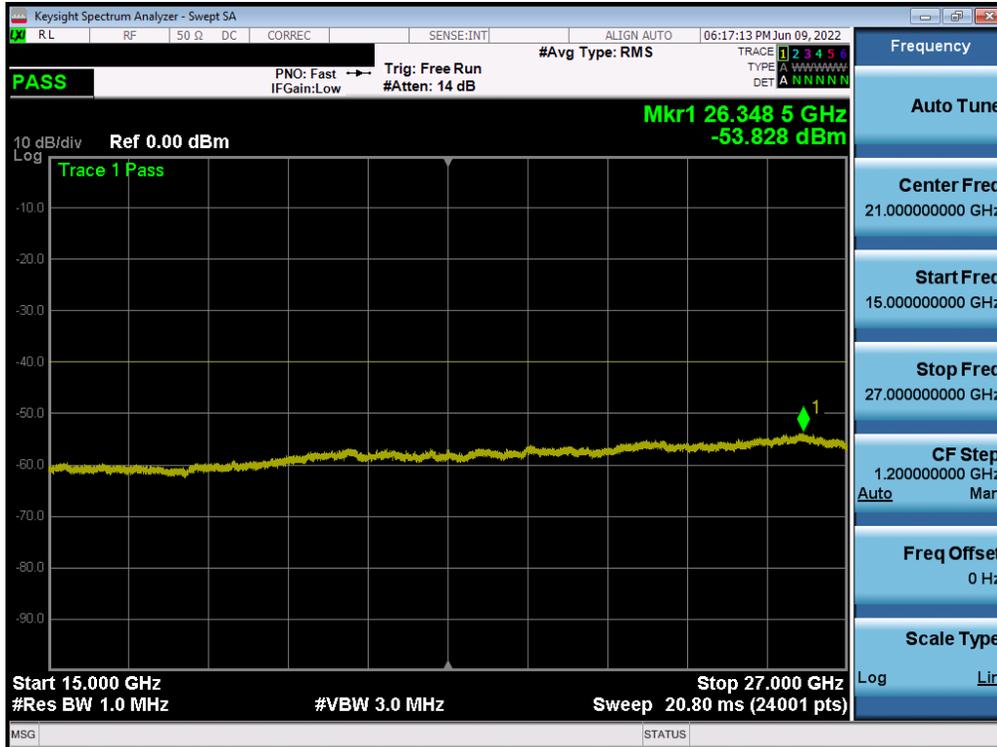


Plot 7-93. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)



Plot 7-94. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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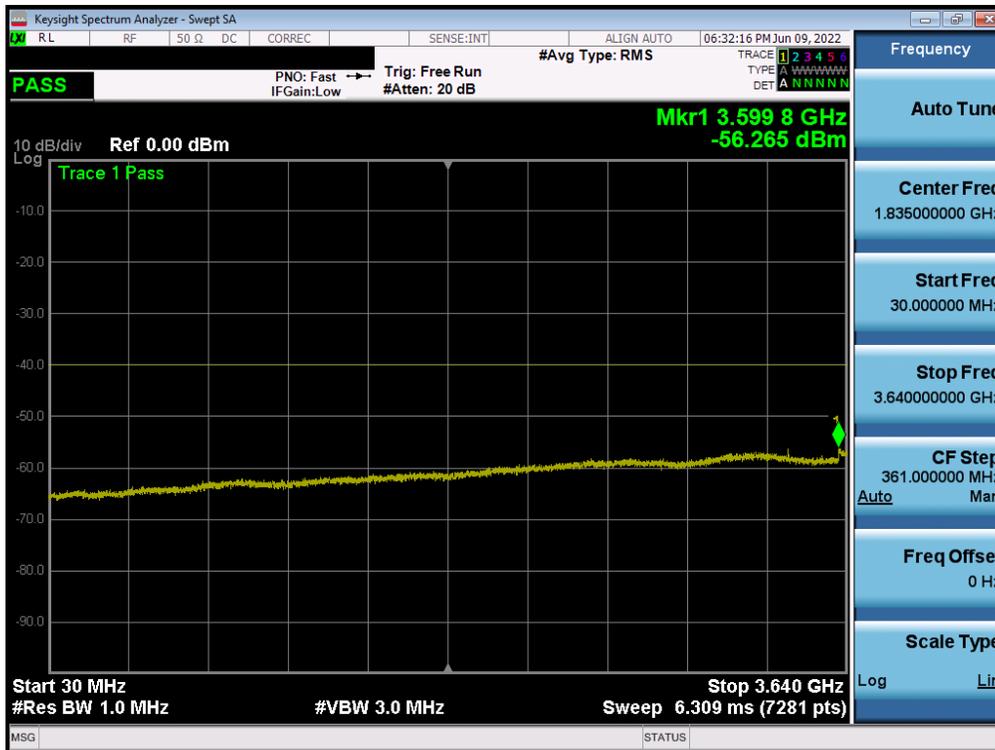


Plot 7-95. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

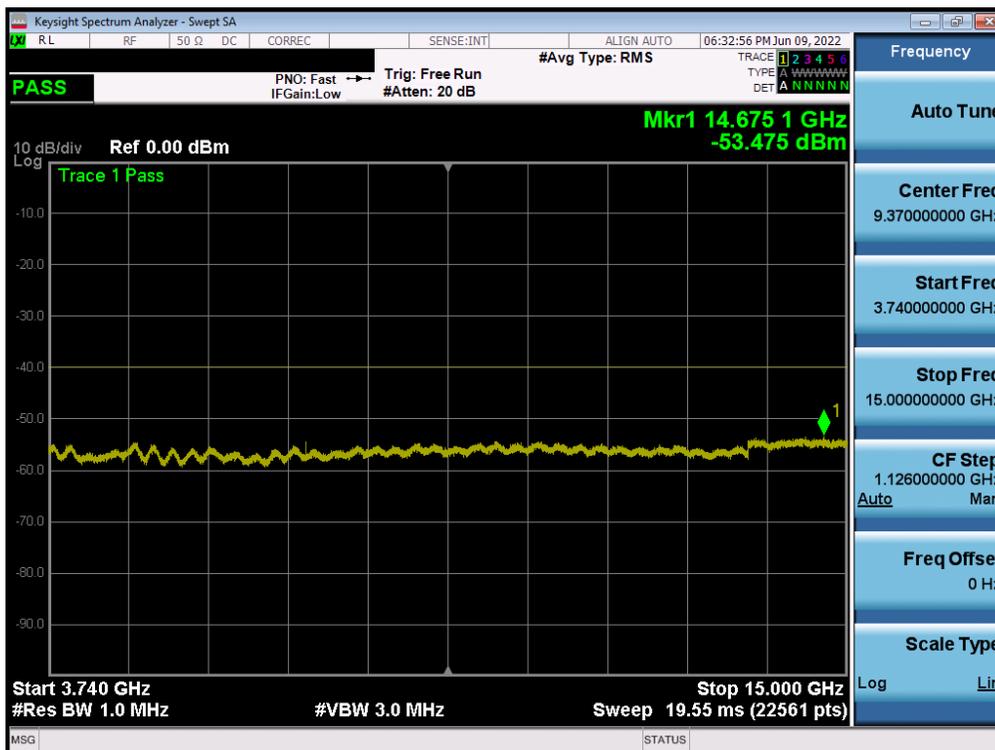


Plot 7-96. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-97. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)



Plot 7-98. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-99. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)



Plot 7-100. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

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## 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 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 an End User Device, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed  $-13$  dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed  $-25$  dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed  $-40$  dBm/MHz.***

### Test Procedure Used

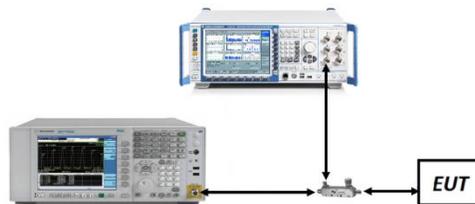
ANSI C63.26-2015 – Section 5.7.3

### 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
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**

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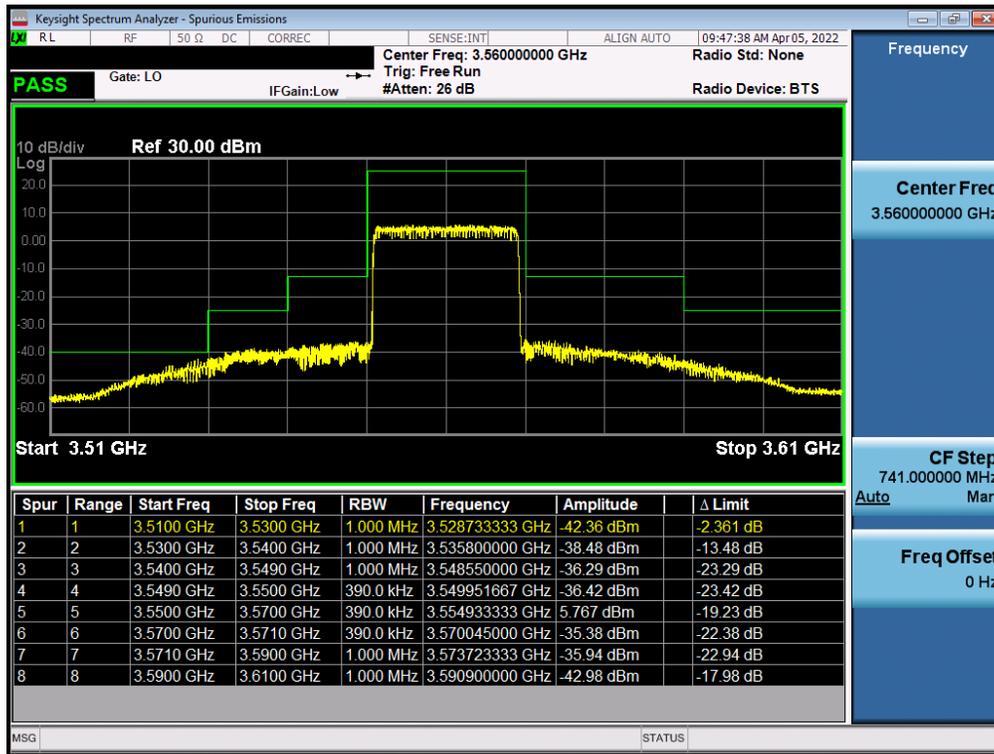
V3.0 1/6/2022

**Test Notes**

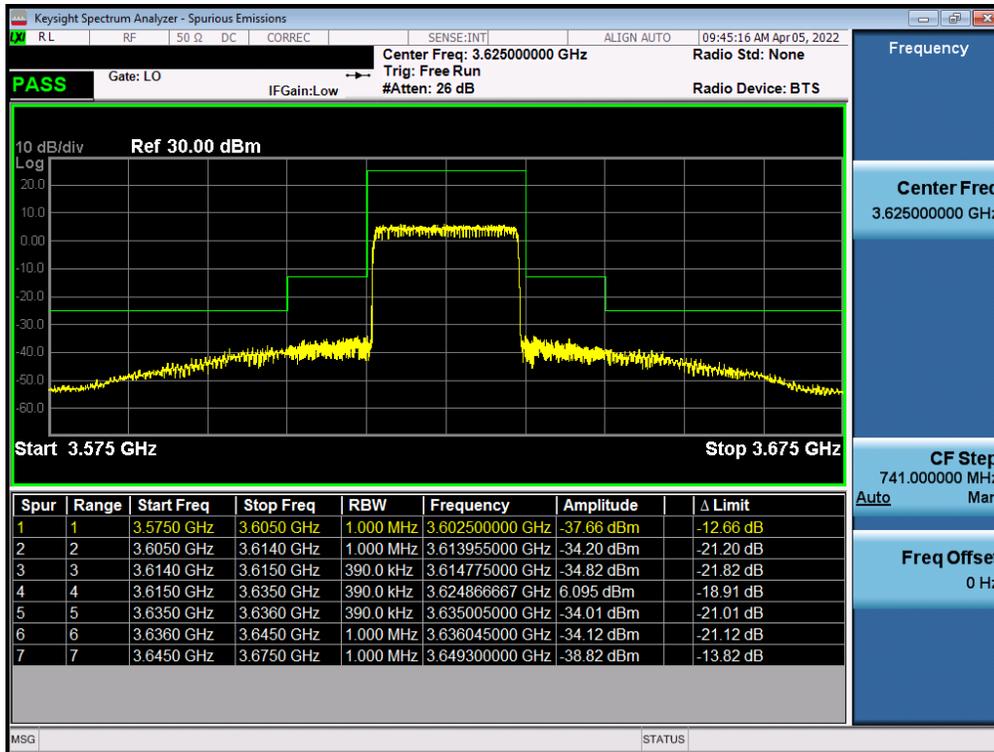
1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth 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 reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental 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 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.

<b>FCC ID:</b> A3LSMF936U	<b>PART 96 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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# LTE Band 48

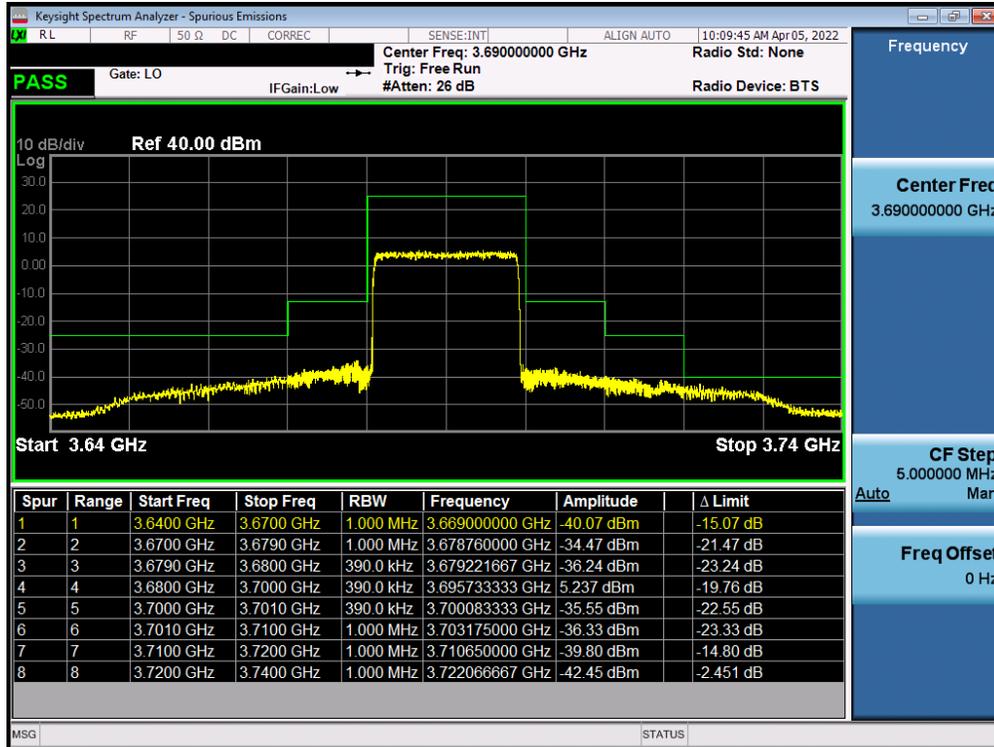


Plot 7-101. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel)

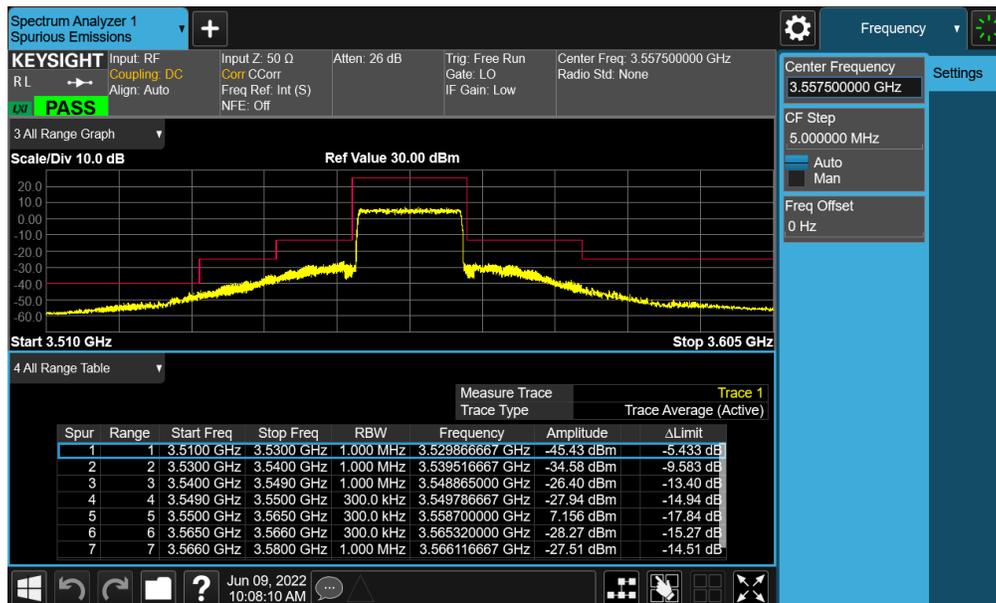


Plot 7-102. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 73 of 133

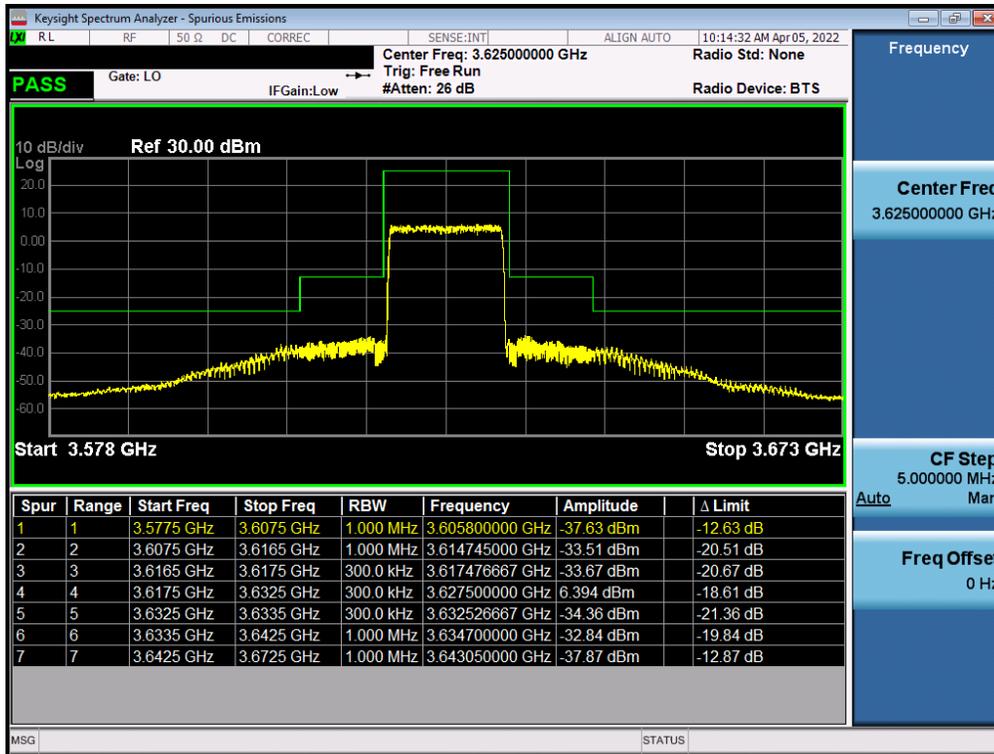


Plot 7-103. Channel Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel)

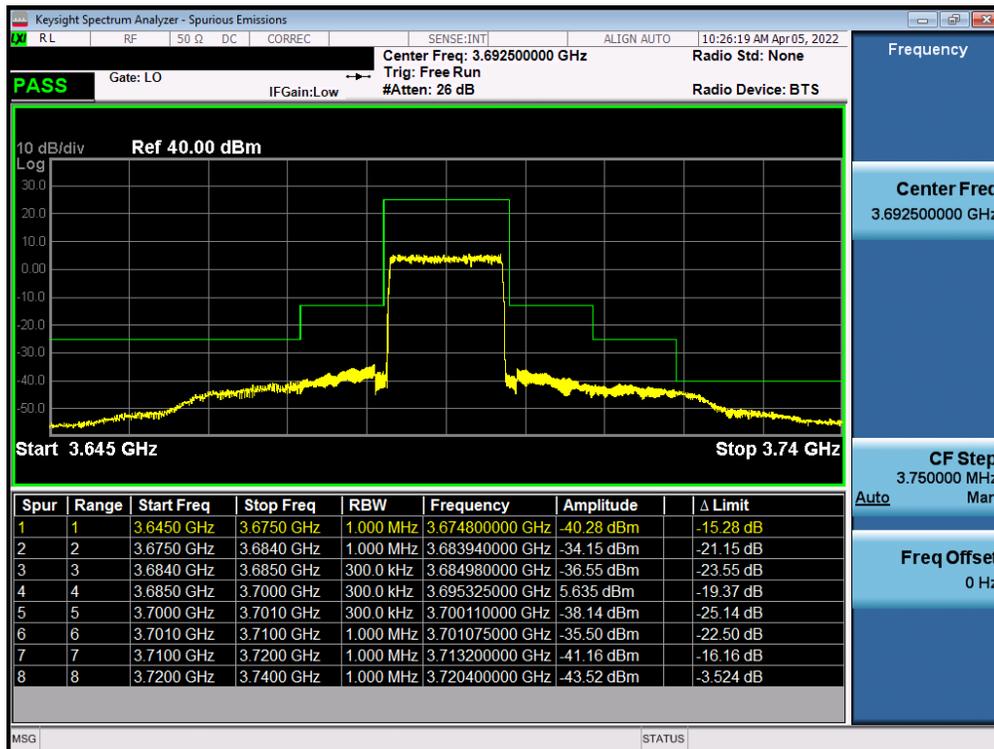


Plot 7-104. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Low Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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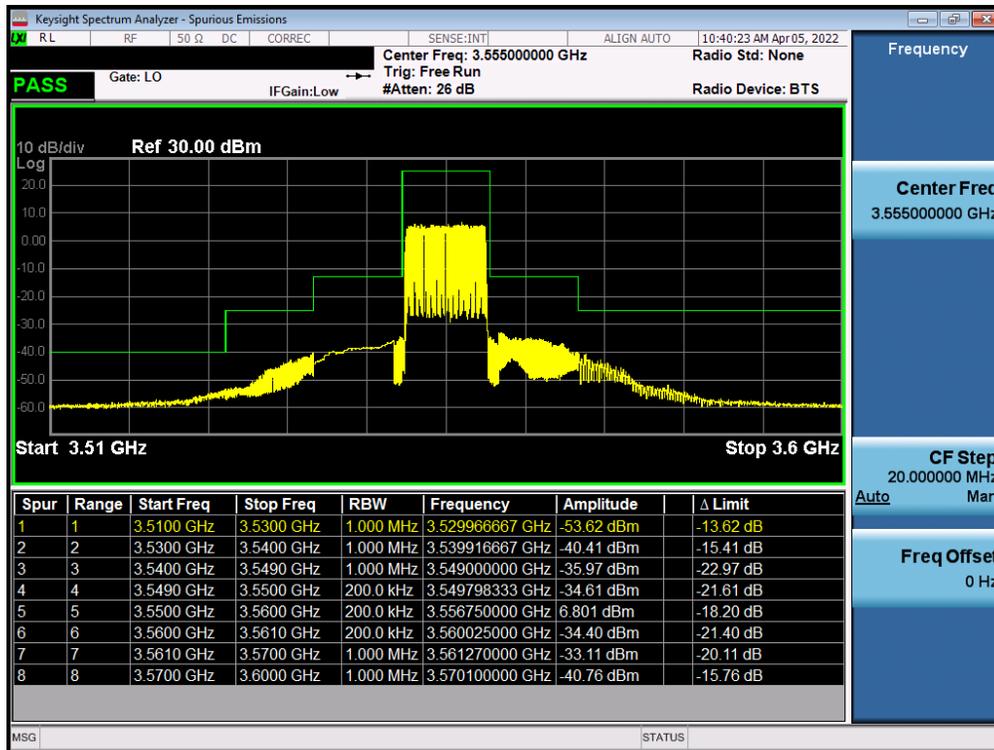


Plot 7-105. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - Mid Channel)

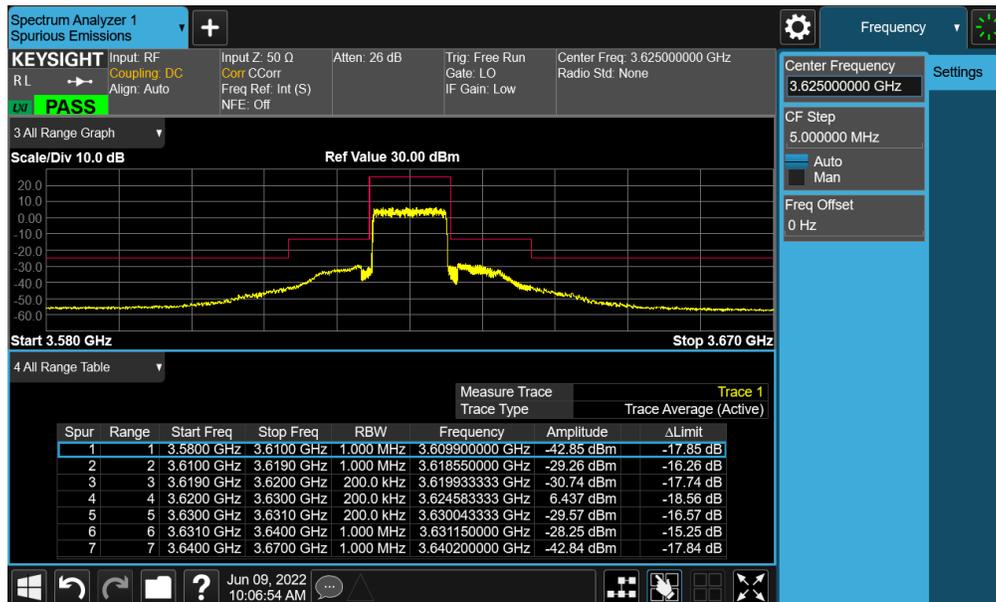


Plot 7-106. Channel Edge Plot (LTE Band 48 - 15MHz QPSK - High Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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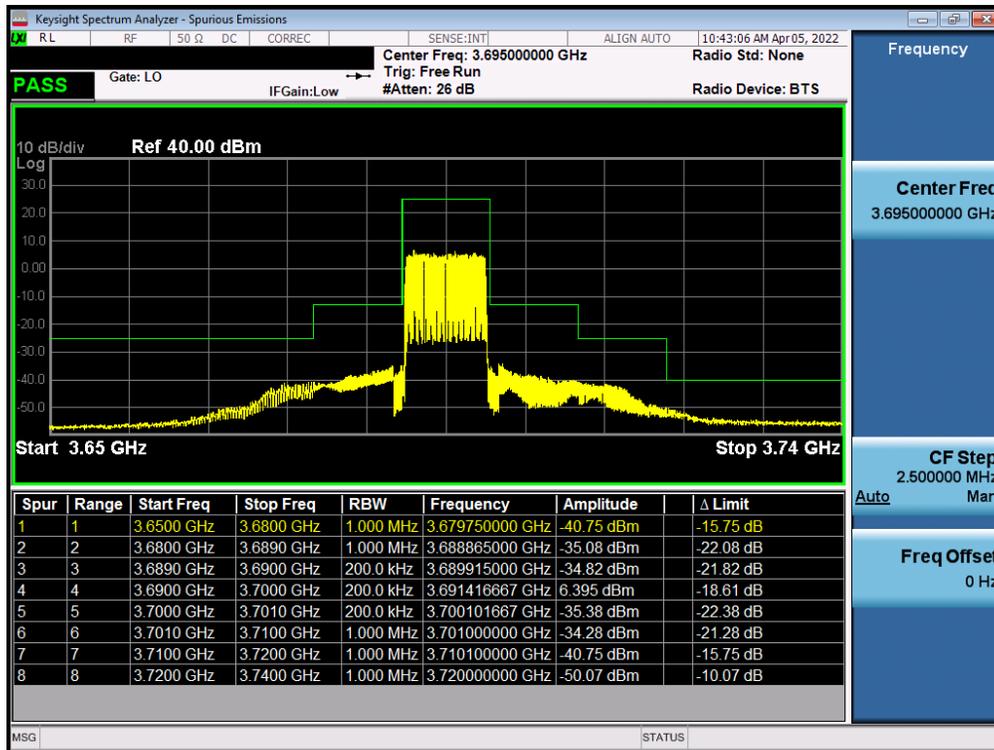


Plot 7-107. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - Low Channel)

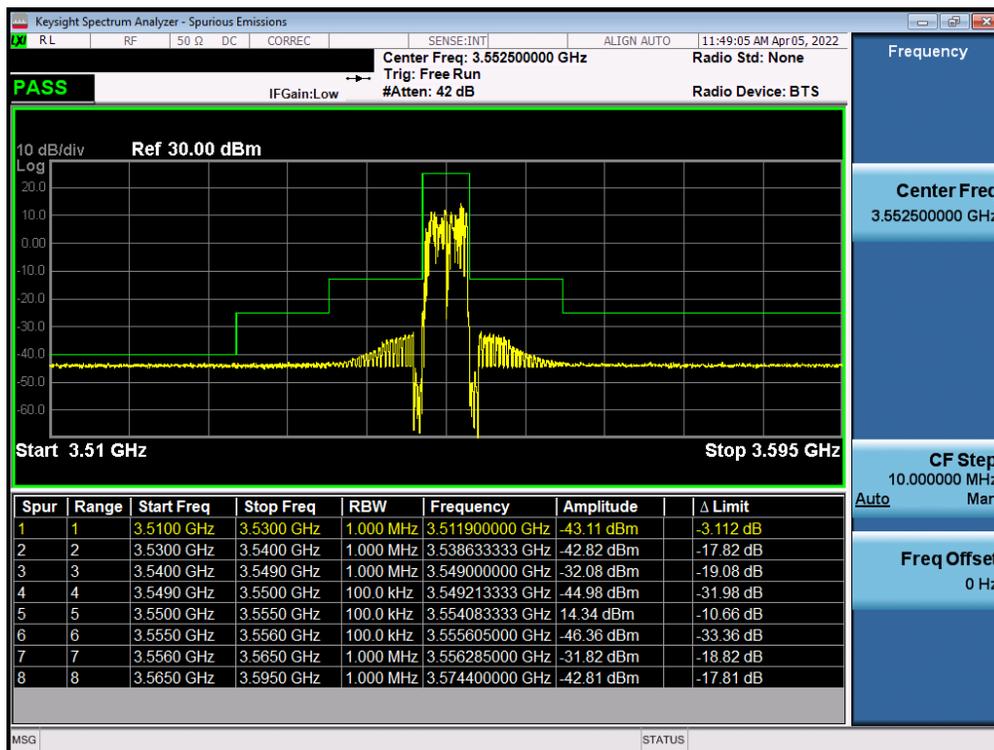


Plot 7-108. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - Mid Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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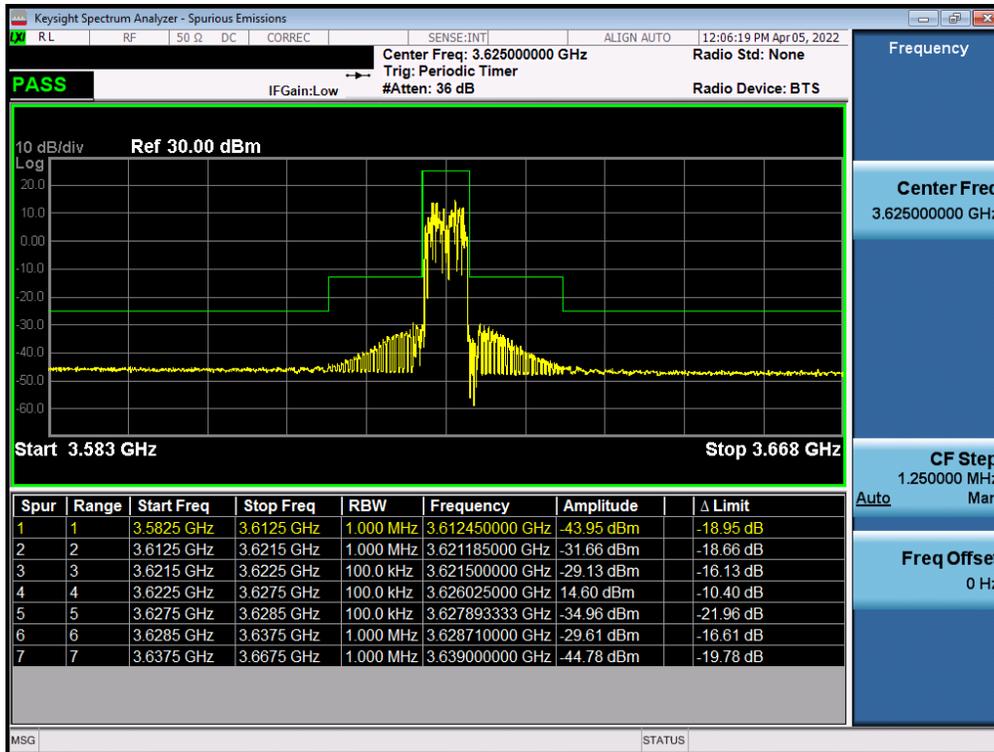


Plot 7-109. Channel Edge Plot (LTE Band 48 - 10MHz QPSK - High Channel)

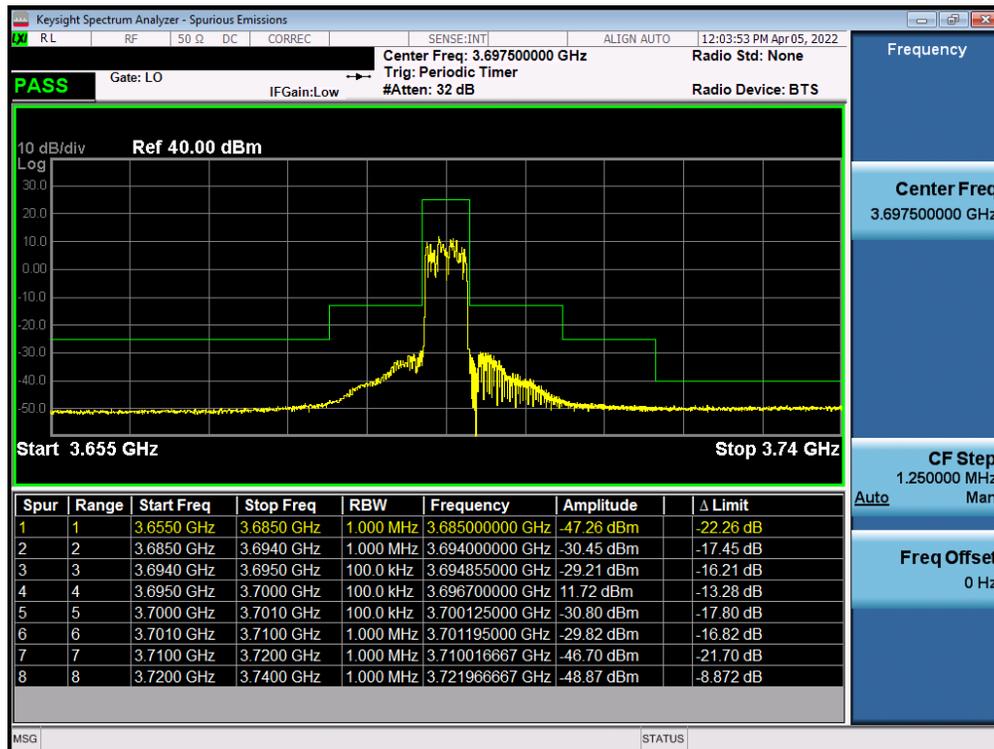


Plot 7-110. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Low Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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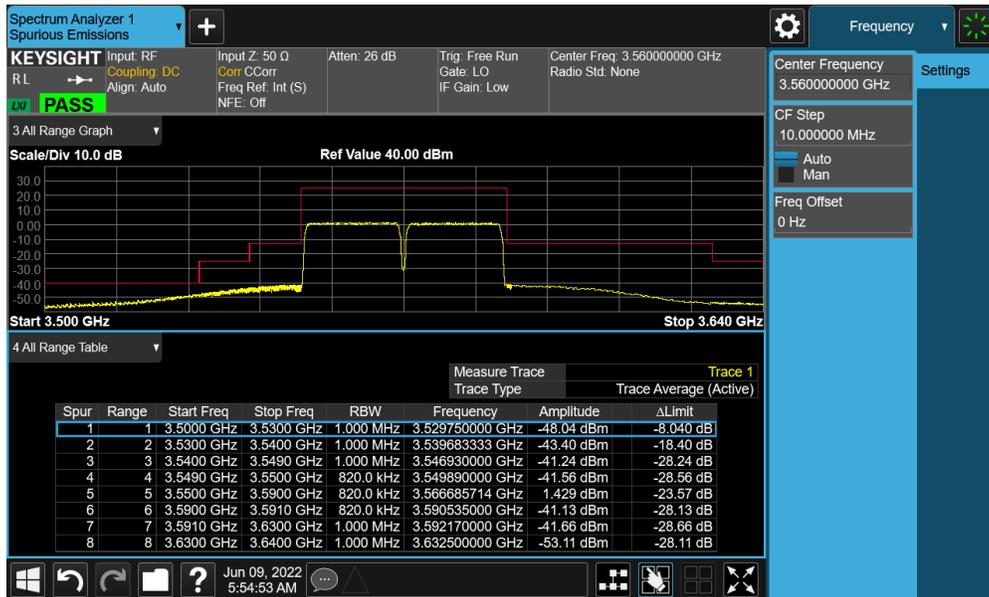
Plot 7-111. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Mid Channel)



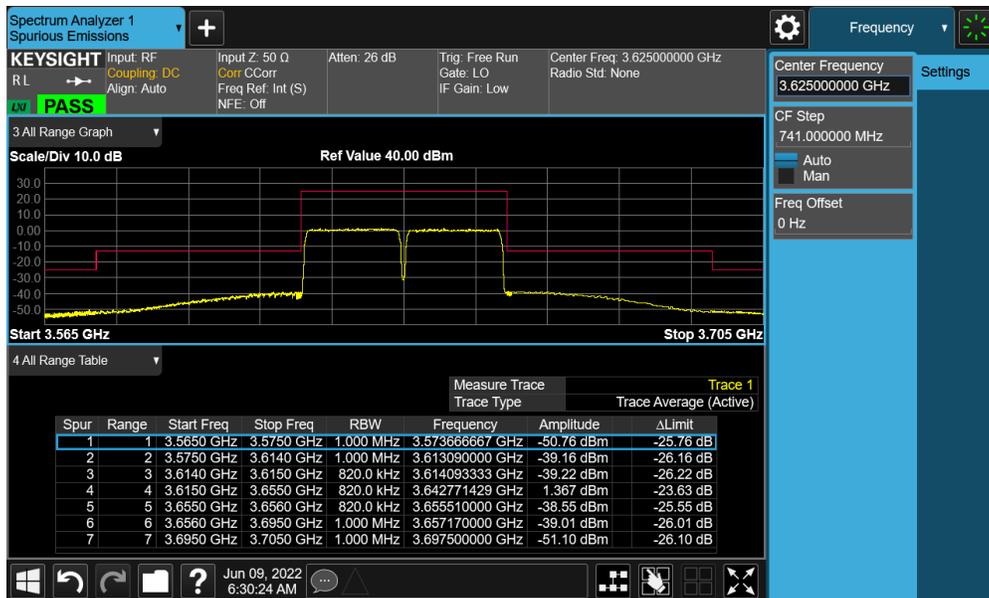
Plot 7-112. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - High Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 78 of 133

# ULCA LB48

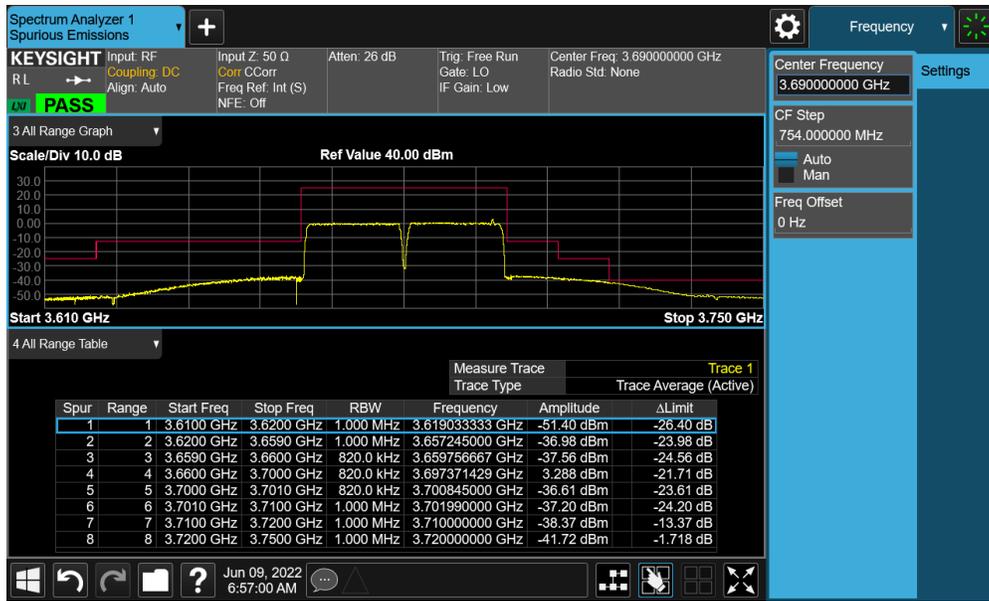


Plot 7-113. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel)



Plot 7-114. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel)

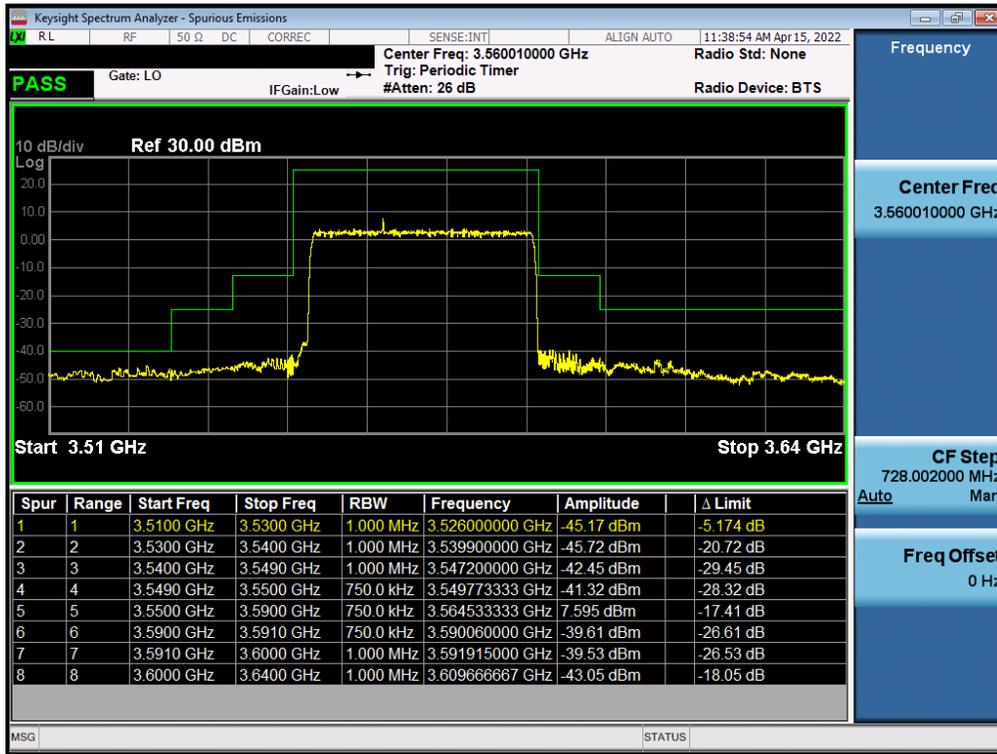
FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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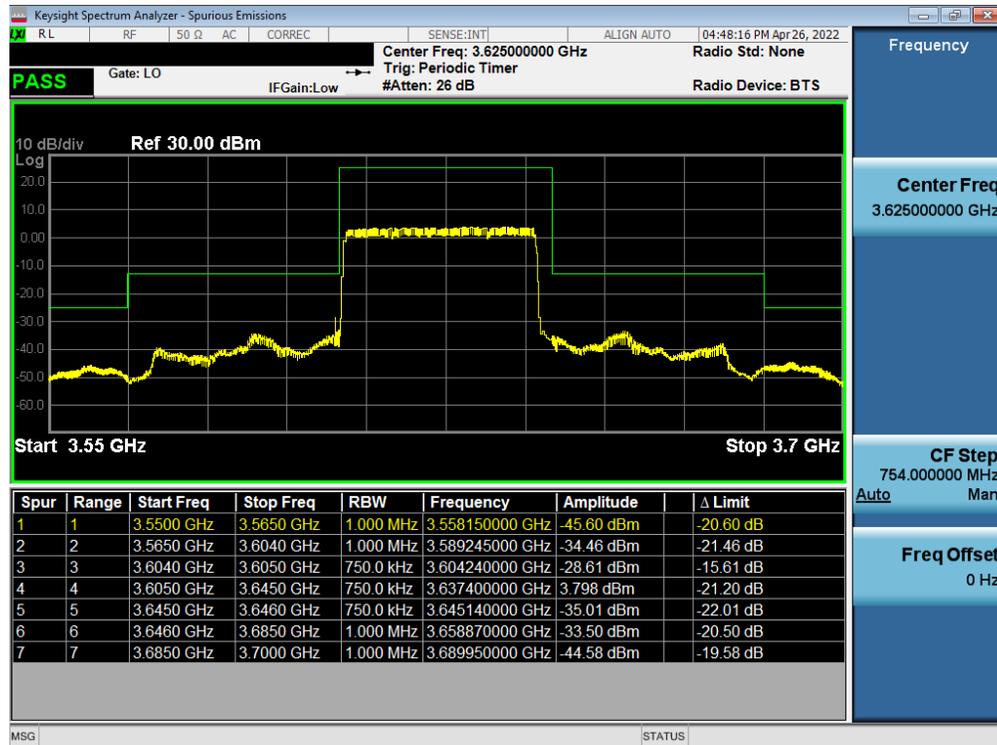
Plot 7-115. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n48 – Ant F

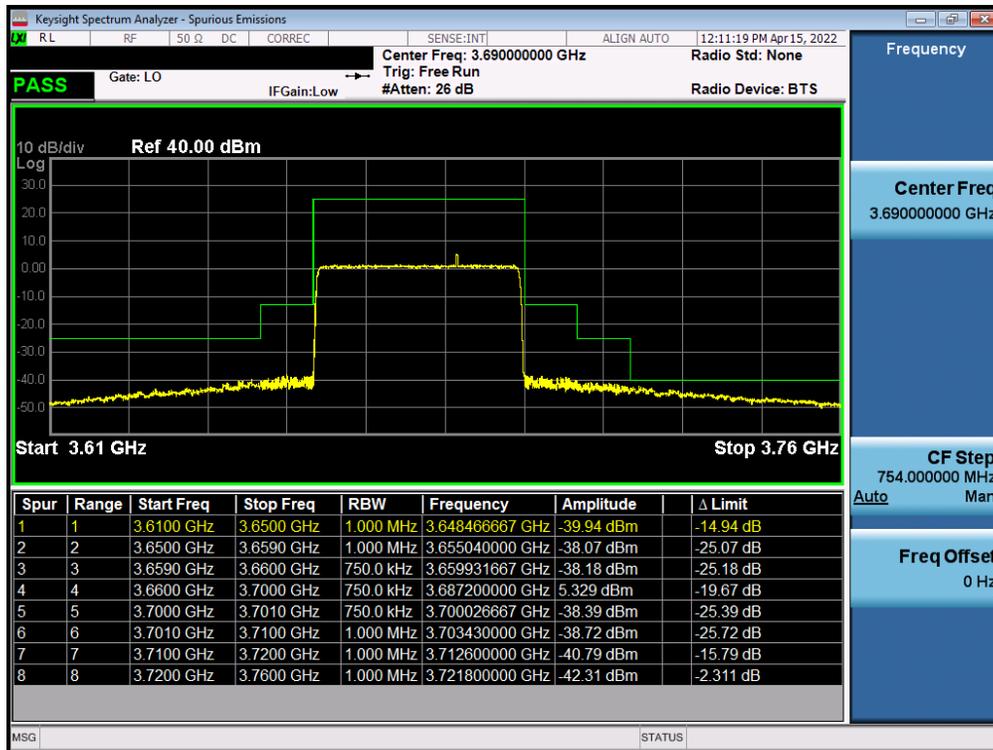


Plot 7-116. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant F)

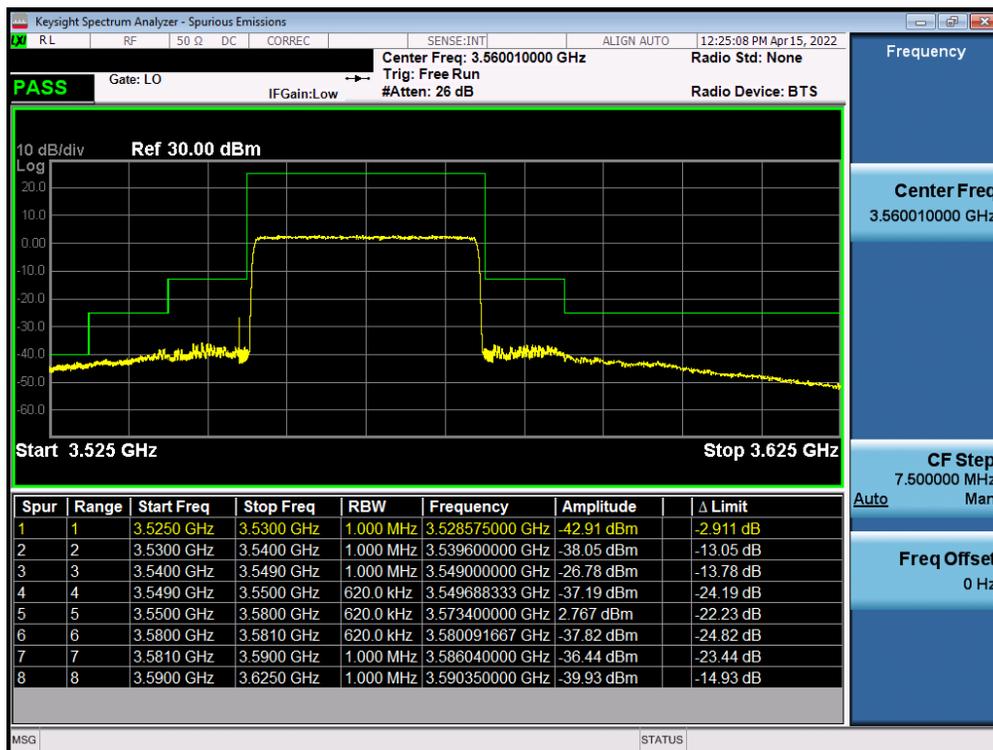


Plot 7-117. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant F)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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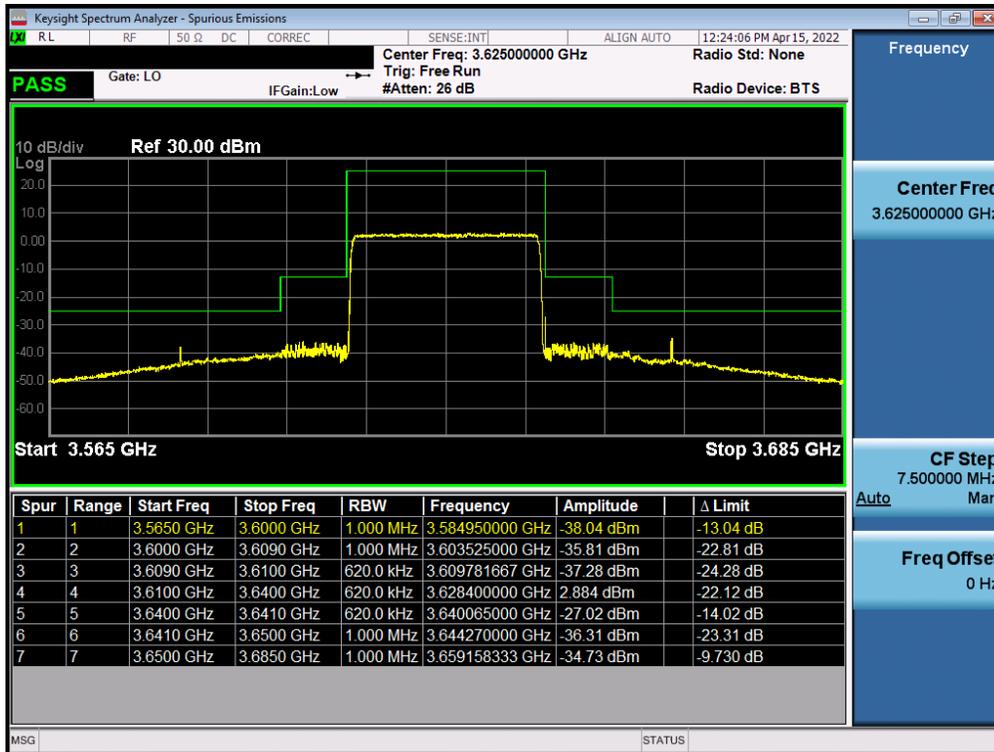


Plot 7-118. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant F)

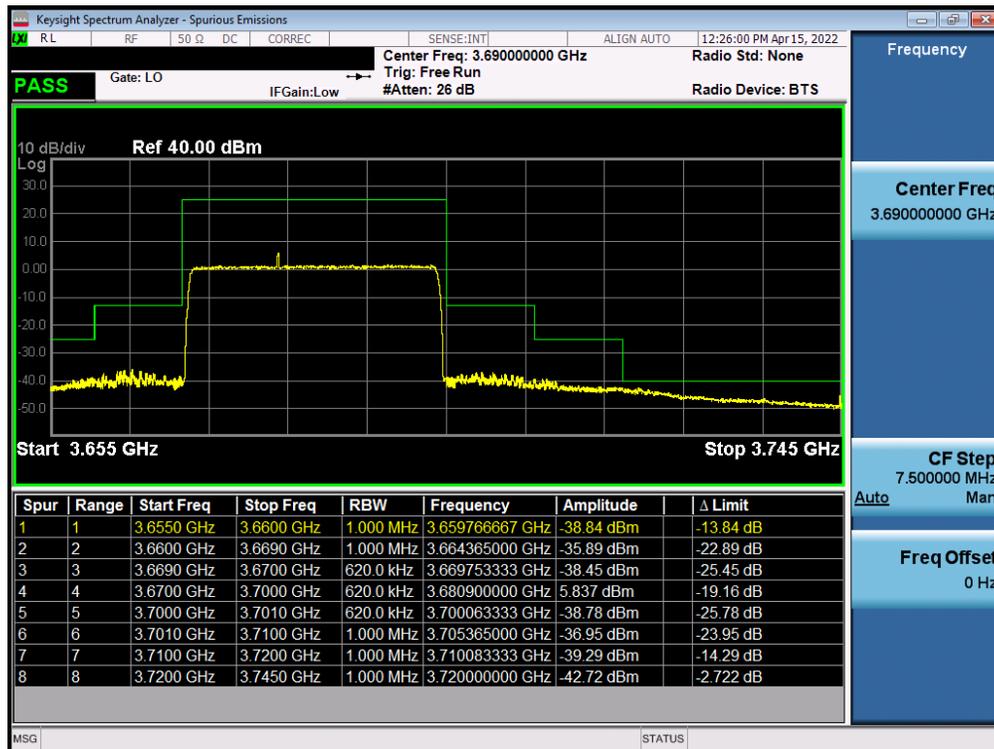


Plot 7-119. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Low Channel - Ant F)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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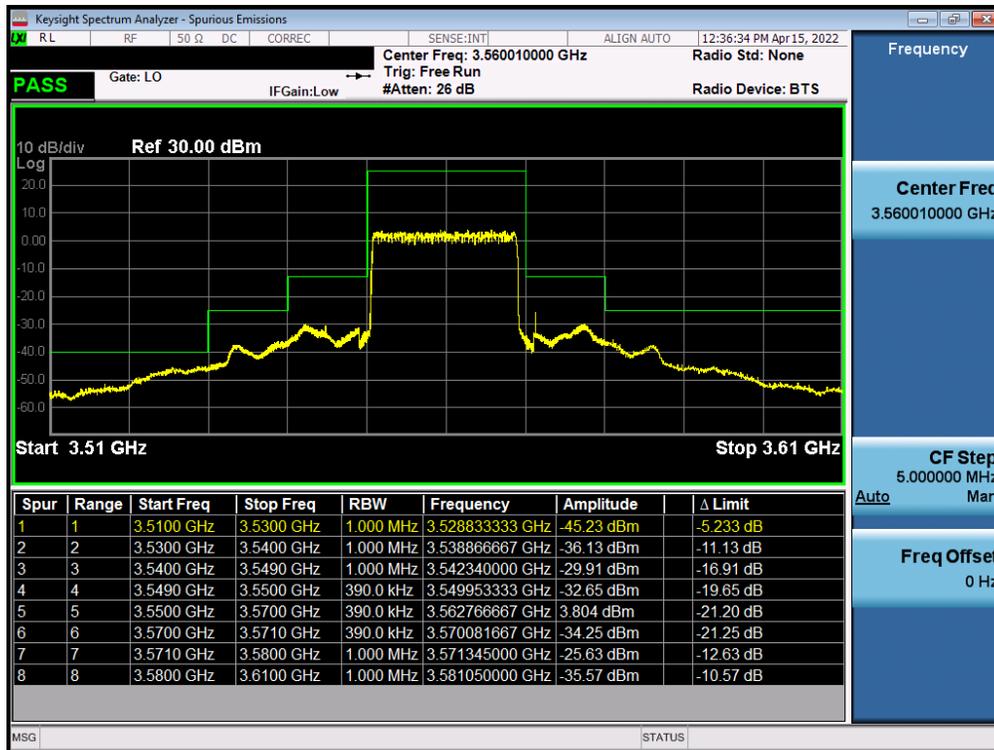


Plot 7-120. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Mid Channel - Ant F)

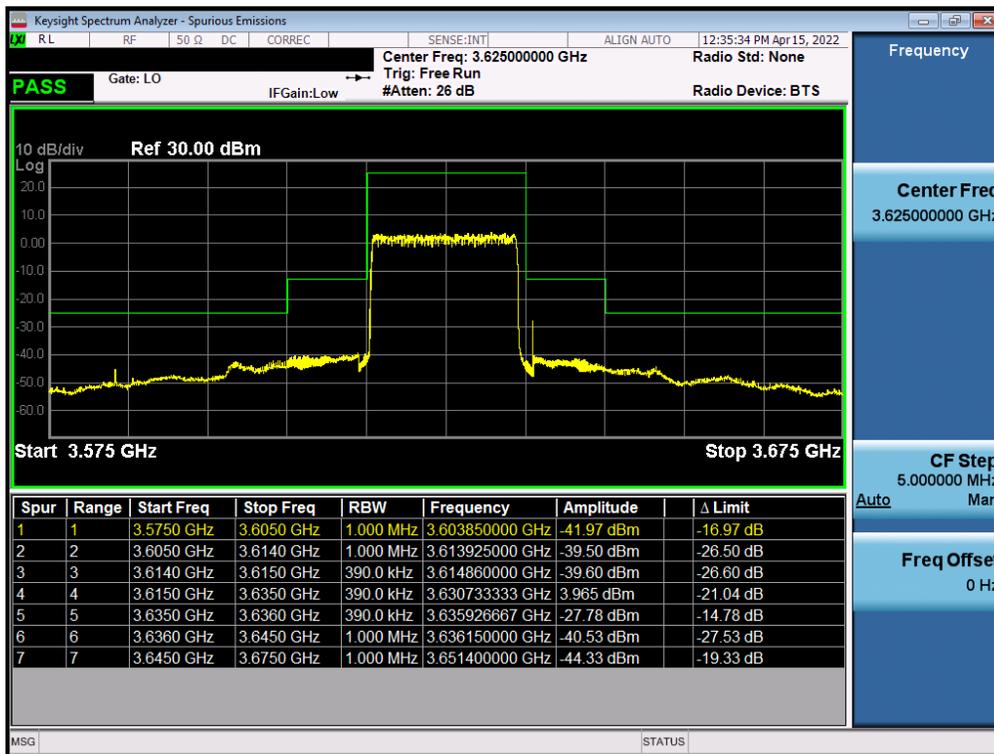


Plot 7-121. Channel Edge Plot (NR Band n48 - 30MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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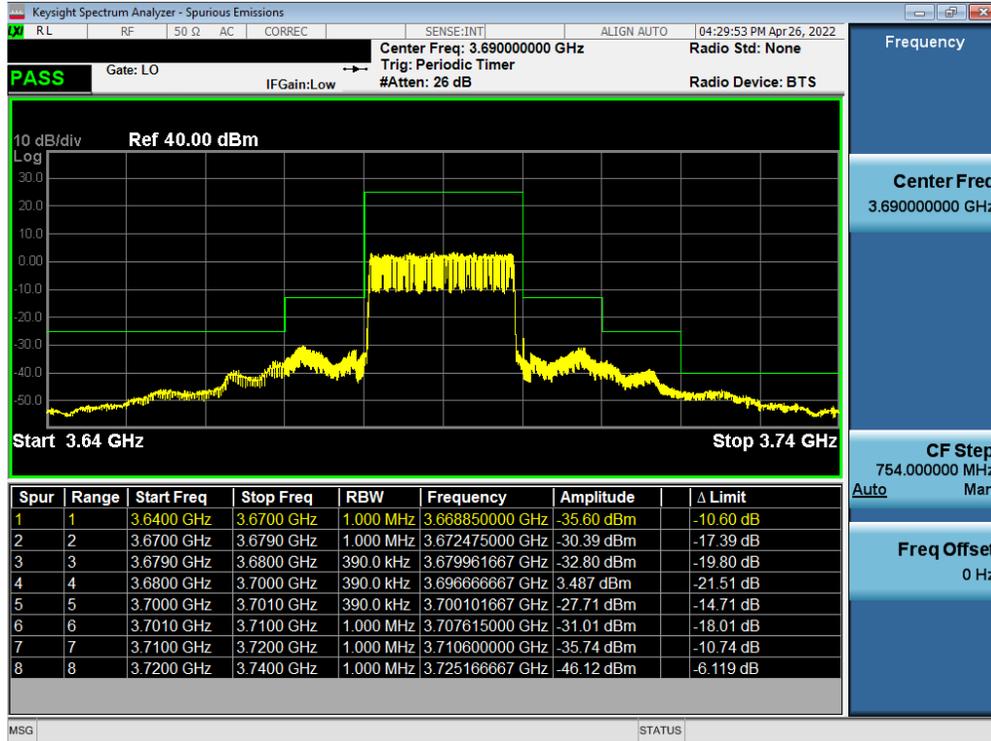


Plot 7-122. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel - Ant F)

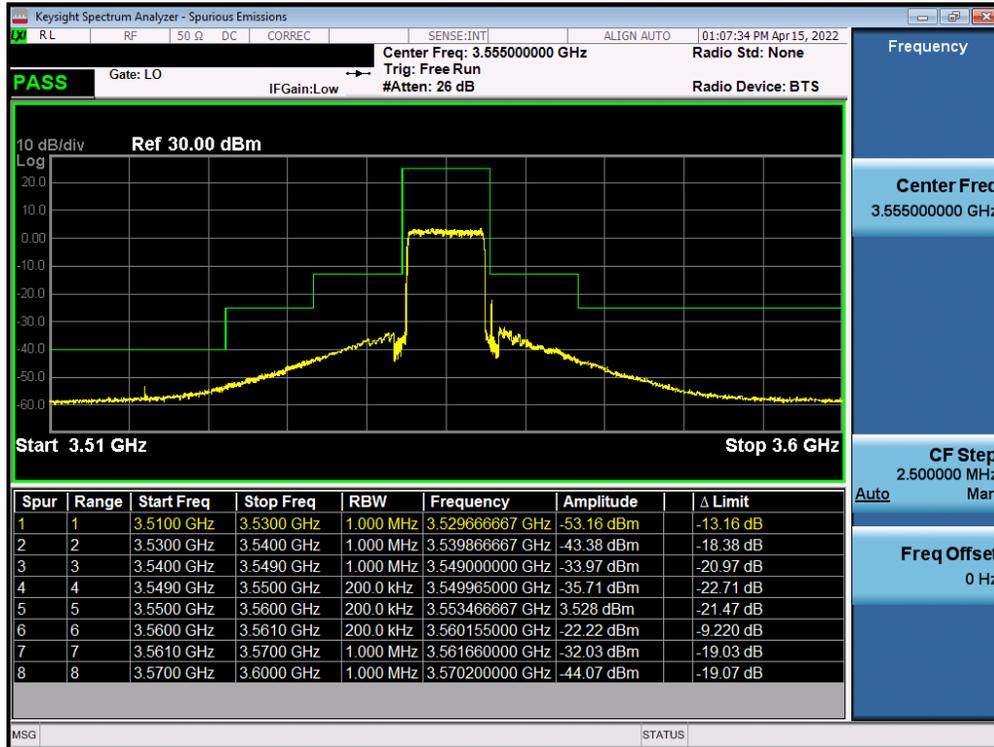


Plot 7-123. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel - Ant F)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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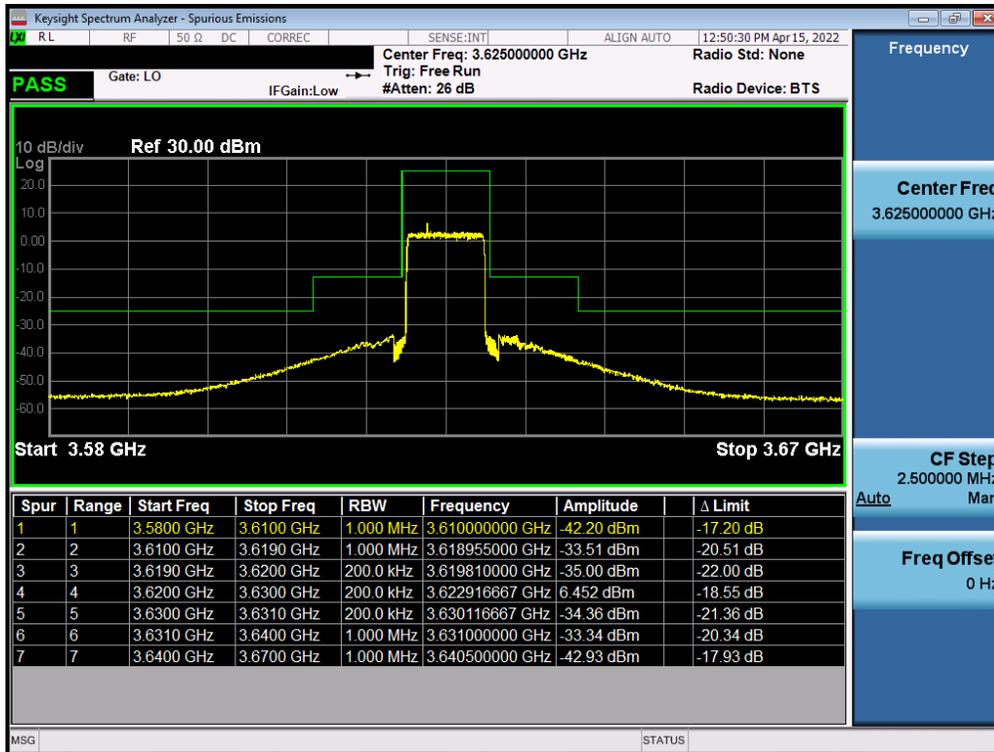


Plot 7-124. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel - Ant F)

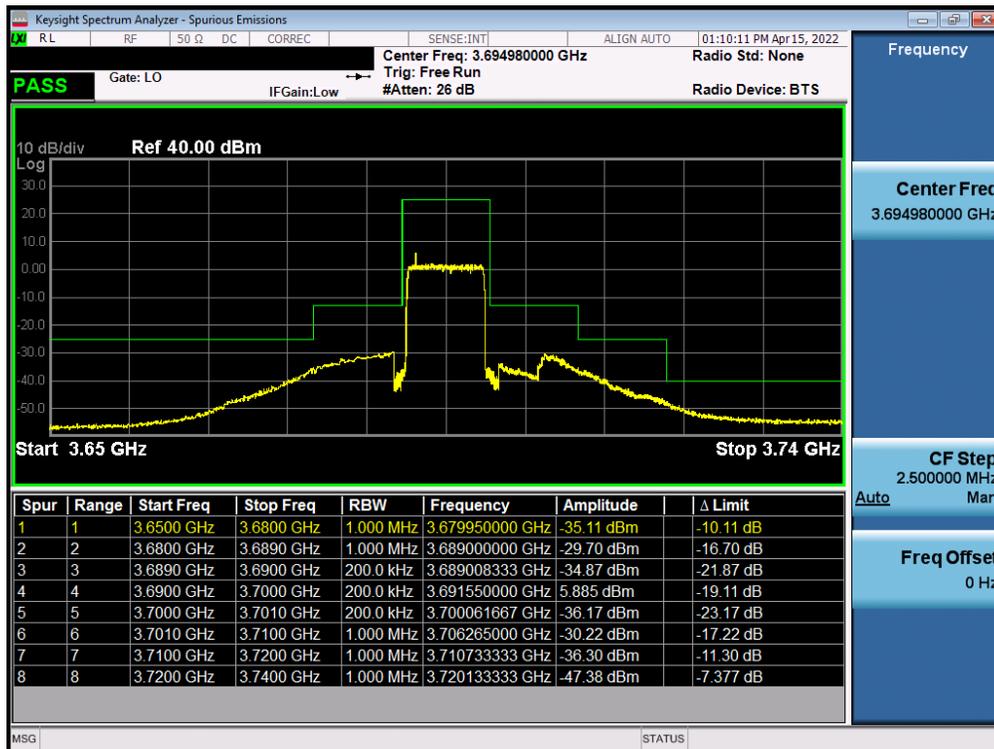


Plot 7-125. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Low Channel - Ant F)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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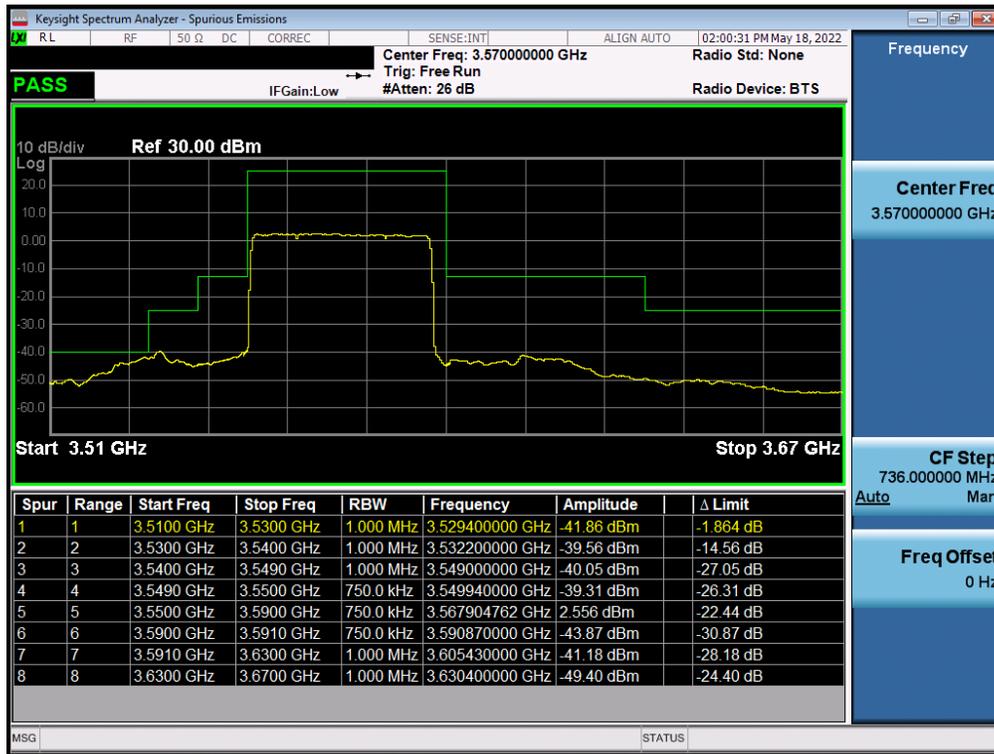
Plot 7-126. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Mid Channel - Ant F)



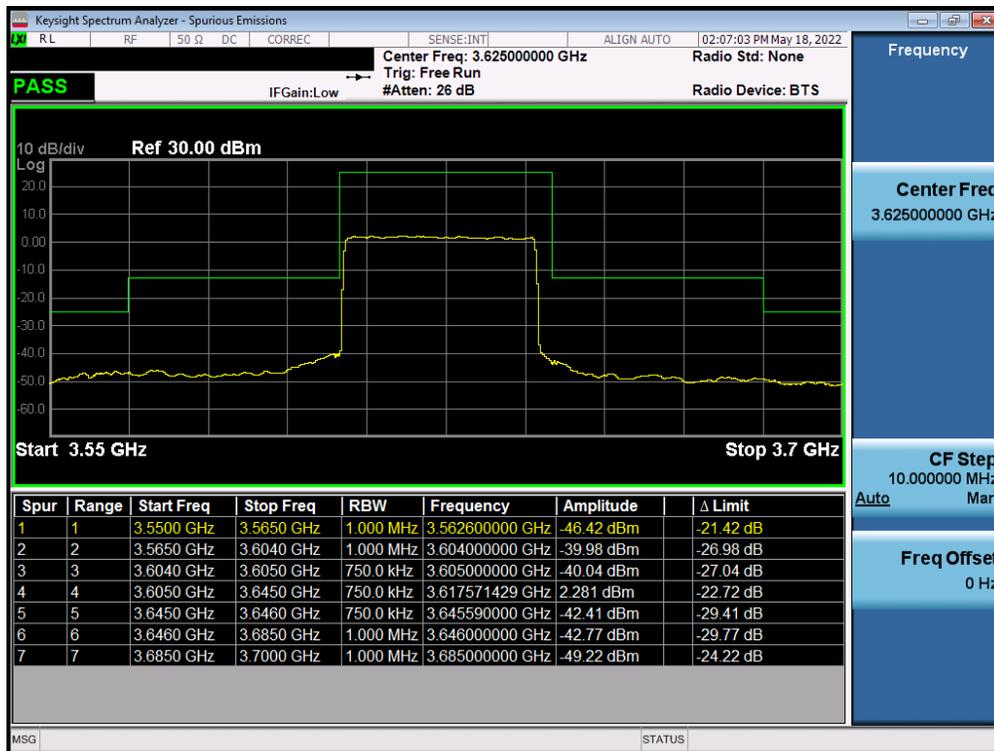
Plot 7-127. Channel Edge Plot (NR Band n48 - 10MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n48 – Ant E

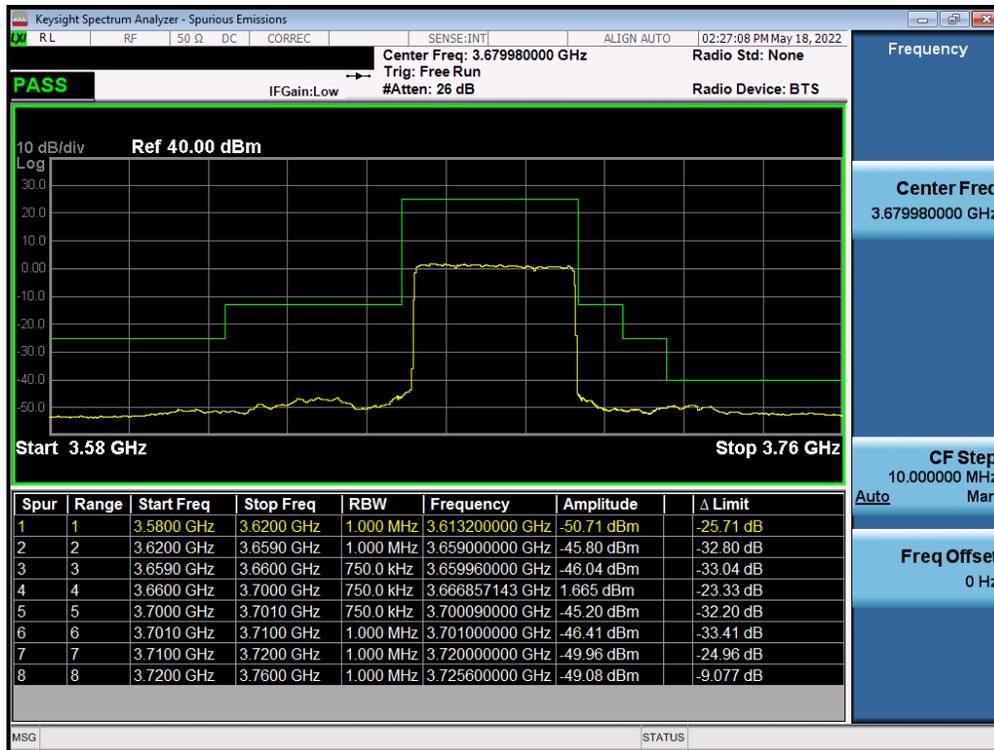


Plot 7-128. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant E)



Plot 7-129. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant E)

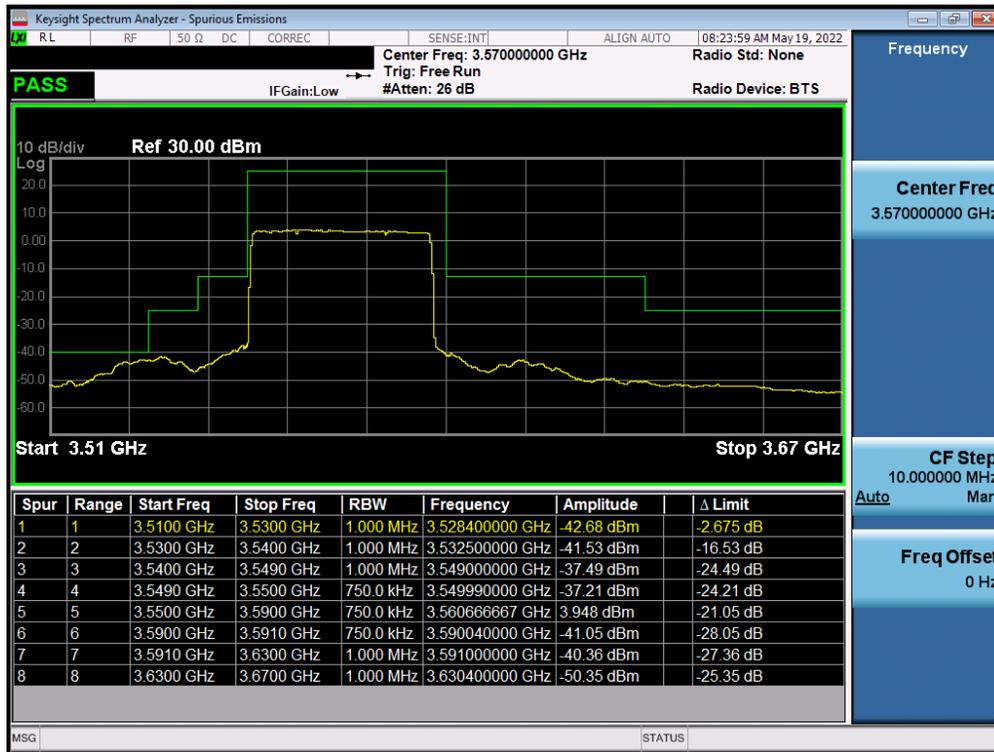
FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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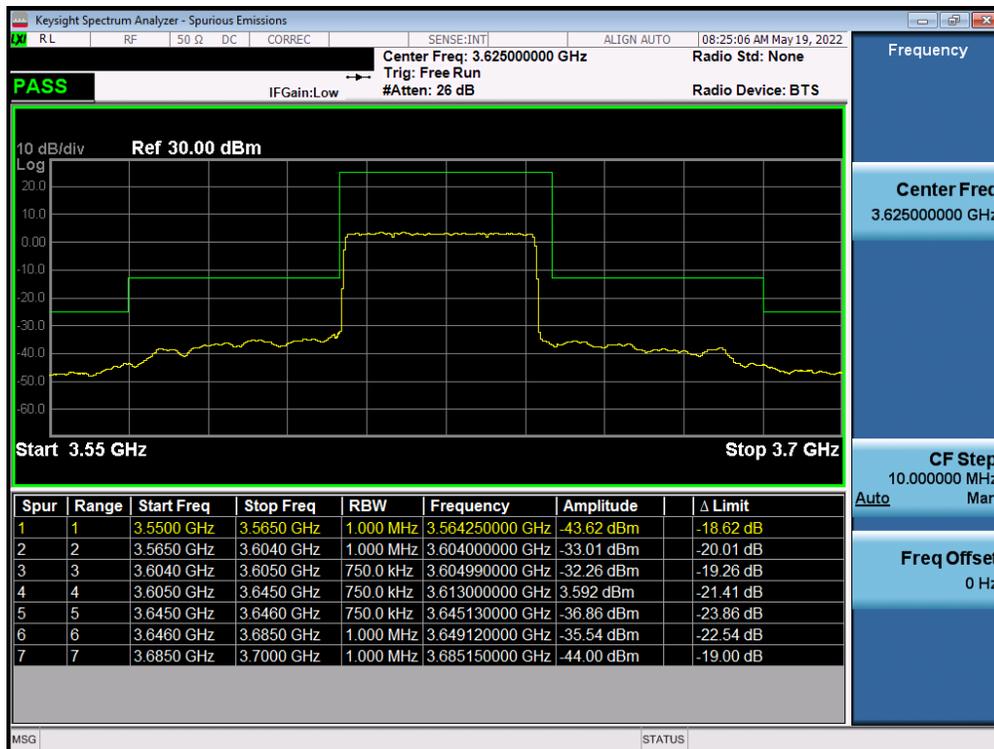
Plot 7-130. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant E)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n48 – Ant G

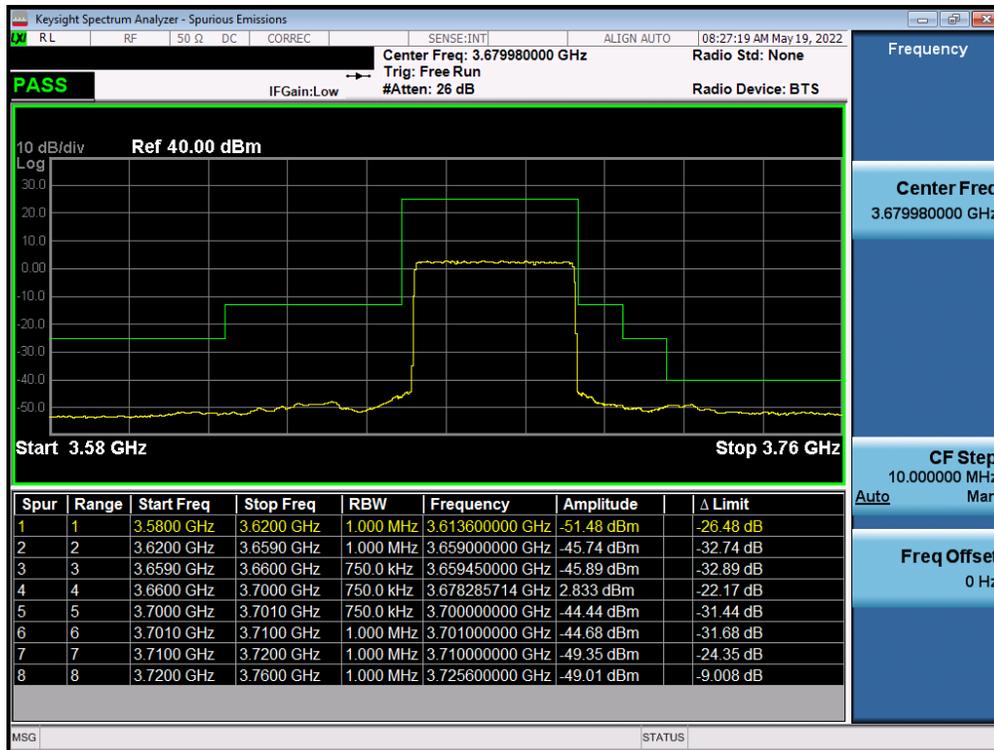


Plot 7-131. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant G)



Plot 7-132. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant G)

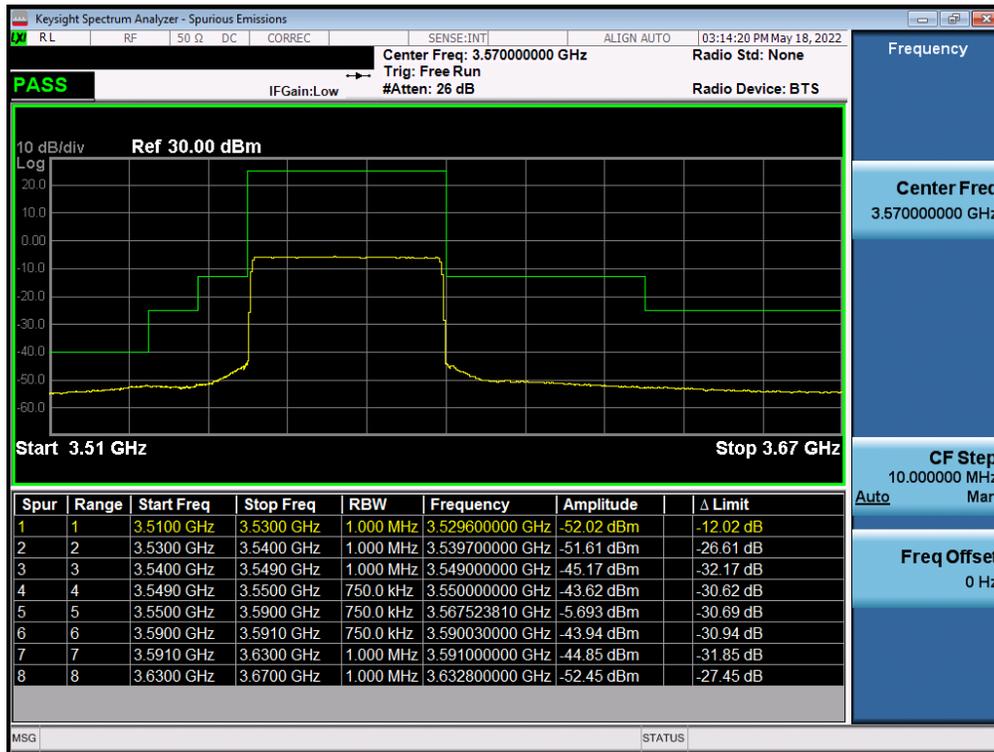
FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-08.A3L	Test Dates: 4/1/2022 - 6/20/2022	EUT Type: Portable Handset	Page 89 of 133



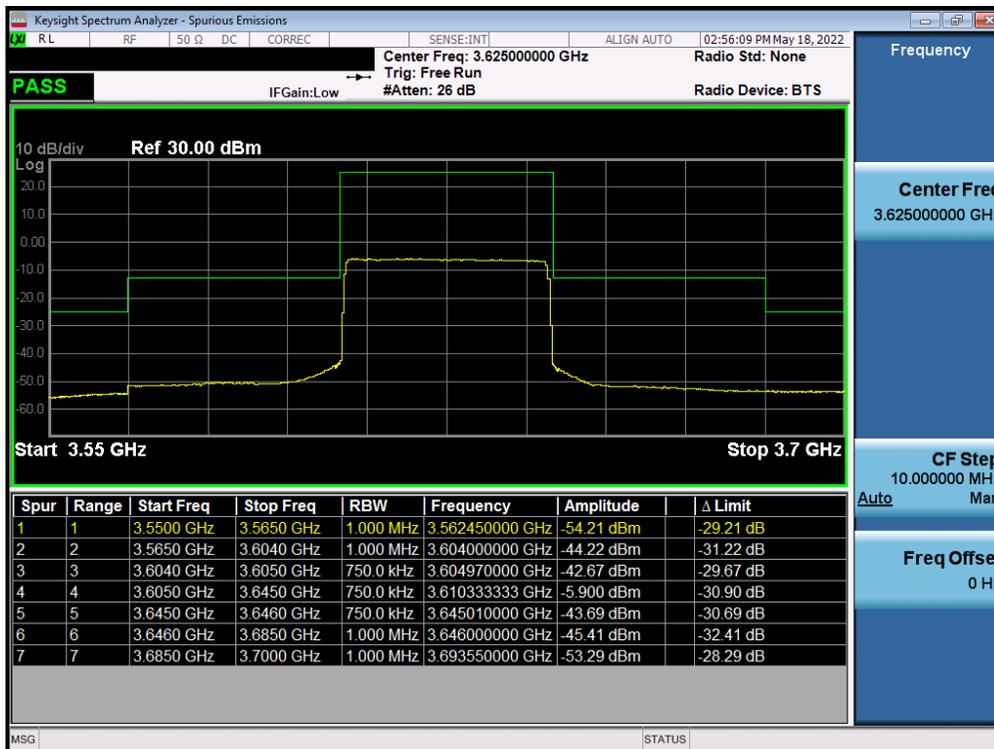
Plot 7-133. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant G)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n48 – Ant D

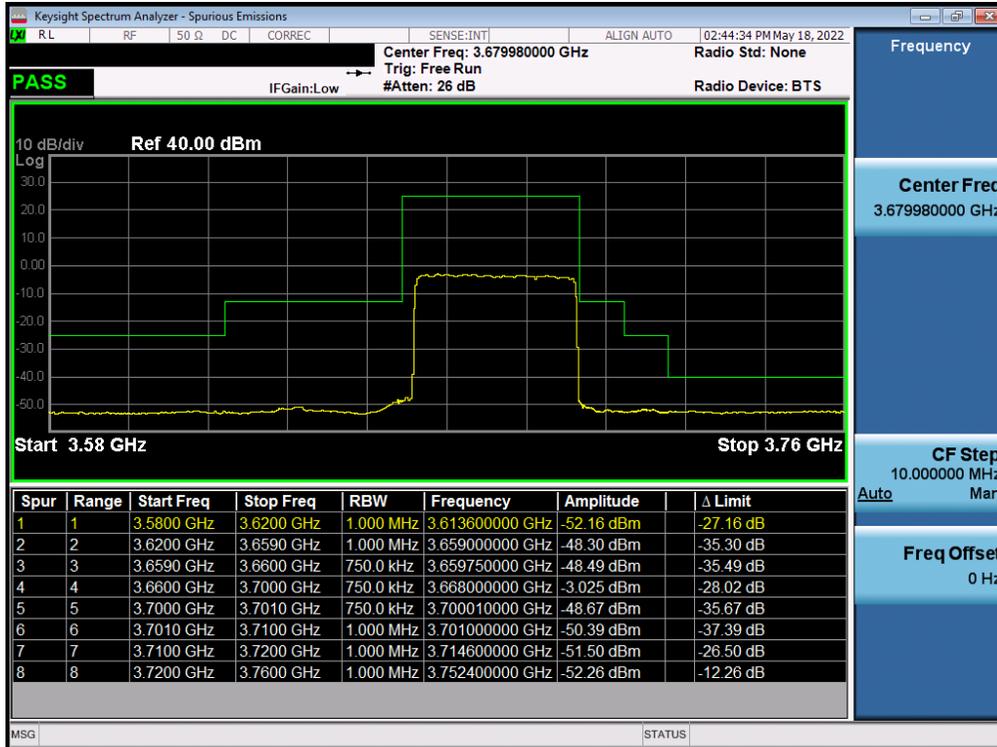


Plot 7-134. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant D)



Plot 7-135. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant D)

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Plot 7-136. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant D)

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## 7.6 Radiated Power (EIRP)

### Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

### Test Settings

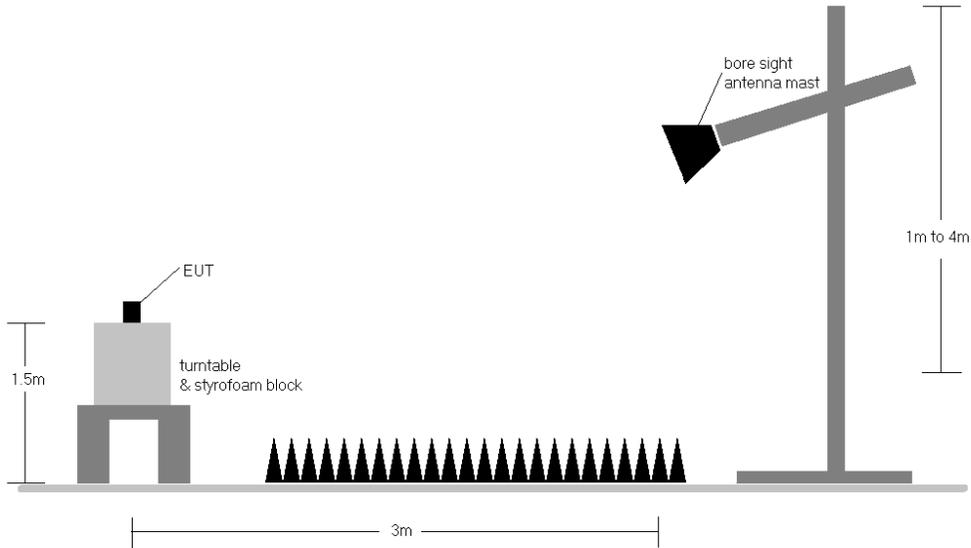
1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $\geq$  2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”. Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was set equal to 10MHz. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

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### Test Setup

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



**Figure 7-5. Radiated Test Setup >1GHz**

### Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 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.
- 4) The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz).

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
20 MHz	QPSK	3560.0	V	297	41	7.15	1 / 99	13.41	20.56	0.114	23.00	-2.44
	QPSK	3625.0	V	287	48	6.91	1 / 0	14.03	<b>20.94</b>	<b>0.124</b>	23.00	-2.06
	QPSK	3690.0	V	294	41	6.60	1 / 99	13.34	19.94	0.099	23.00	-3.06
15 MHz	16-QAM	3625.0	V	287	48	6.91	1 / 50	13.10	20.01	0.100	23.00	-2.99
	QPSK	3557.5	V	297	41	7.15	1 / 0	13.90	<b>21.06</b>	<b>0.128</b>	23.00	-1.94
	QPSK	3625.0	V	287	48	6.91	1 / 37	13.45	20.36	0.109	23.00	-2.64
10 MHz	QPSK	3692.5	V	294	41	6.60	1 / 0	13.99	20.58	0.114	23.00	-2.42
	16-QAM	3557.5	V	297	41	7.15	1 / 37	13.04	20.19	0.105	23.00	-2.81
	QPSK	3555.0	V	297	41	7.15	1 / 49	13.30	<b>20.46</b>	<b>0.111</b>	23.00	-2.54
5 MHz	QPSK	3625.0	V	287	48	6.91	1 / 0	13.28	20.19	0.104	23.00	-2.81
	QPSK	3695.0	V	294	41	6.59	1 / 49	13.36	19.95	0.099	23.00	-3.05
	16-QAM	3552.5	V	297	41	7.16	1 / 24	12.66	19.81	0.096	23.00	-3.19
20 MHz	QPSK (Opposite Pol.)	3625.0	H	104	320	6.77	1 / 0	13.94	<b>20.71</b>	<b>0.118</b>	23.00	-2.29
	QPSK (Closed)	3625.0	V	313	38	6.91	1 / 12	13.43	20.34	0.108	23.00	-2.66
	QPSK (WCP)	3625.0	V	213	77	6.91	1 / 0	12.91	19.82	0.096	23.00	-3.18

Table 7-10. EIRP Data (LTE Band 48)

Bandwidth	Modulation	PCC			SCC			Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
		Bandwidth [MHz]	Frequency [MHz]	RB / Offset	Bandwidth [MHz]	Frequency [MHz]	RB / Offset									
40 MHz	QPSK	20	3560.0	1 / 99	20	3579.8	1 / 0	V	112	55	7.15	10.66	17.81	0.060	23.00	-5.19
		20	3625.0	1 / 99	20	3644.8	1 / 0	V	283	71	6.91	10.41	17.32	0.054	23.00	-5.68
		20	3690.0	1 / 0	20	3670.2	1 / 99	V	333	38	6.60	9.65	16.25	0.042	23.00	-6.75
	16-QAM	20	3560.0	1 / 99	20	3579.8	1 / 0	V	112	55	7.15	9.77	16.92	0.049	23.00	-6.08
		20	3625.0	1 / 99	20	3644.8	1 / 0	V	283	71	6.91	9.36	16.27	0.042	23.00	-6.73
		20	3690.0	1 / 0	20	3670.2	1 / 99	V	333	38	6.60	9.01	15.61	0.036	23.00	-7.39
35 MHz	QPSK	20	3557.5	1 / 99	15	3577.1	1 / 0	V	112	55	7.15	10.48	17.64	0.058	23.00	-5.36
		20	3625.0	1 / 99	15	3642.1	1 / 0	V	283	71	6.91	10.26	17.17	0.052	23.00	-5.83
		20	3692.5	1 / 0	15	3672.9	1 / 74	V	333	38	6.60	9.77	16.37	0.043	23.00	-6.63
	16-QAM	20	3557.5	1 / 99	15	3577.1	1 / 0	V	112	55	7.15	9.52	16.67	0.046	23.00	-6.33
		20	3625.0	1 / 99	15	3642.1	1 / 0	V	283	71	6.91	9.65	16.56	0.045	23.00	-6.44
		20	3692.5	1 / 0	15	3672.9	1 / 74	V	333	38	6.60	8.91	15.51	0.036	23.00	-7.49
30 MHz	QPSK	20	3555.0	1 / 99	10	3574.4	1 / 0	V	112	55	7.15	10.08	17.24	0.053	23.00	-5.76
		20	3625.0	1 / 99	10	3639.4	1 / 0	V	283	71	6.91	9.69	16.60	0.046	23.00	-6.40
		20	3695.0	1 / 0	10	3678.3	1 / 49	V	333	38	6.59	9.54	16.13	0.041	23.00	-6.87
	16-QAM	20	3555.0	1 / 99	10	3574.4	1 / 0	V	112	55	7.15	8.25	15.40	0.035	23.00	-7.60
		20	3625.0	1 / 99	10	3639.4	1 / 0	V	283	71	6.91	8.65	15.56	0.036	23.00	-7.44
		20	3695.0	1 / 0	10	3678.3	1 / 49	V	333	38	6.59	7.99	14.59	0.029	23.00	-8.41
25 MHz	QPSK	20	3552.5	1 / 99	5	3571.7	1 / 0	V	112	55	7.16	11.36	18.51	0.071	23.00	-4.49
		20	3625.0	1 / 99	5	3636.7	1 / 0	V	283	71	6.91	10.06	16.97	0.050	23.00	-6.03
		20	3697.5	1 / 0	5	3678.3	1 / 24	V	333	38	6.59	9.76	16.35	0.043	23.00	-6.65
	16-QAM	20	3552.5	1 / 99	5	3571.7	1 / 0	V	112	55	7.16	10.21	17.37	0.055	23.00	-5.63
		20	3625.0	1 / 99	5	3636.7	1 / 0	V	283	71	6.91	9.32	16.23	0.042	23.00	-6.77
		20	3697.5	1 / 0	5	3678.3	1 / 24	V	333	38	6.59	8.22	14.80	0.030	23.00	-8.20

Table 7-11. EIRP Data (LTE ULCA Band 48)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.0	V	303	41	7.14	1 / 26	12.92	20.06	0.101	23.00	-2.94
	$\pi/2$ BPSK	3625.0	V	291	42	6.91	1 / 79	12.37	19.28	0.085	23.00	-3.72
	$\pi/2$ BPSK	3680.0	V	307	41	6.63	1 / 79	12.31	18.94	0.078	23.00	-4.06
	QPSK	3570.0	V	303	41	7.14	1 / 26	13.32	<b>20.46</b>	<b>0.111</b>	23.00	-2.54
	QPSK	3625.0	V	291	42	6.91	1 / 79	12.46	19.37	0.087	23.00	-3.63
	QPSK	3680.0	V	307	41	6.63	1 / 26	12.55	19.18	0.083	23.00	-3.82
16-QAM	3570.0	V	303	41	7.14	1 / 26	12.44	19.58	0.091	23.00	-3.42	
30 MHz	$\pi/2$ BPSK	3565.0	V	303	41	7.15	1 / 58	13.02	20.17	0.104	23.00	-2.83
	$\pi/2$ BPSK	3625.0	V	291	42	6.91	1 / 39	12.34	19.25	0.084	23.00	-3.75
	$\pi/2$ BPSK	3685.0	V	307	41	6.62	1 / 19	12.14	18.76	0.075	23.00	-4.24
	QPSK	3565.0	V	303	41	7.15	1 / 58	13.41	<b>20.56</b>	<b>0.114</b>	23.00	-2.44
	QPSK	3625.0	V	291	42	6.91	1 / 19	12.46	19.37	0.087	23.00	-3.63
	QPSK	3685.0	V	307	41	6.62	1 / 19	12.33	18.94	0.078	23.00	-4.06
16-QAM	3565.0	V	303	41	7.15	1 / 58	12.55	19.70	0.093	23.00	-3.30	
20 MHz	$\pi/2$ BPSK	3560.0	V	303	41	7.15	1 / 25	13.01	20.16	0.104	23.00	-2.84
	$\pi/2$ BPSK	3625.0	V	291	42	6.91	1 / 13	12.34	19.25	0.084	23.00	-3.75
	$\pi/2$ BPSK	3690.0	V	307	41	6.60	1 / 25	12.15	18.75	0.075	23.00	-4.25
	QPSK	3560.0	V	303	41	7.15	1 / 37	13.45	<b>20.60</b>	<b>0.115</b>	23.00	-2.40
	QPSK	3625.0	V	291	42	6.91	1 / 37	12.34	19.25	0.084	23.00	-3.75
	QPSK	3690.0	V	307	41	6.60	1 / 25	12.39	19.00	0.079	23.00	-4.00
16-QAM	3560.0	V	303	41	7.15	1 / 37	12.78	19.93	0.098	23.00	-3.07	
10 MHz	$\pi/2$ BPSK	3555.0	V	303	41	7.15	1 / 12	12.93	20.09	0.102	23.00	-2.91
	$\pi/2$ BPSK	3625.0	V	291	42	6.91	1 / 6	12.00	18.91	0.078	23.00	-4.09
	$\pi/2$ BPSK	3695.0	V	307	41	6.59	1 / 12	11.96	18.55	0.072	23.00	-4.45
	QPSK	3555.0	V	303	41	7.15	1 / 17	13.41	<b>20.57</b>	<b>0.114</b>	23.00	-2.43
	QPSK	3625.0	V	291	42	6.91	1 / 17	12.10	19.01	0.080	23.00	-3.99
	QPSK	3695.0	V	307	41	6.59	1 / 6	12.01	18.61	0.073	23.00	-4.39
16-QAM	3555.0	V	303	41	7.15	1 / 17	12.56	19.72	0.094	23.00	-3.28	
40 MHz	QPSK (CP-OFDM)	3570.0	V	303	41	7.14	1 / 26	11.81	18.95	0.079	23.00	-4.05
	QPSK (Closed)	3570.0	V	319	34	7.14	1 / 79	10.44	17.58	0.057	23.00	-5.42
	QPSK (Opposite Pol.)	3570.0	H	108	318	7.27	1 / 26	13.17	<b>20.44</b>	<b>0.111</b>	23.00	-2.56
	QPSK (WCP)	3570.0	V	217	83	7.14	1 / 53	11.78	18.92	0.078	23.00	-4.08

Table 7-12. EIRP Data (NR Band n48 – Ant F)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.0	H	111	58	7.27	1 / 26	3.48	10.75	0.012	23.00	-12.25
	$\pi/2$ BPSK	3625.0	H	107	54	6.77	1 / 26	4.34	11.11	0.013	23.00	-11.89
	$\pi/2$ BPSK	3680.0	H	103	58	6.25	1 / 53	5.70	<b>11.95</b>	<b>0.016</b>	23.00	-11.05
	QPSK	3570.0	H	111	58	7.27	1 / 26	3.49	10.76	0.012	23.00	-12.24
	QPSK	3625.0	H	107	54	6.77	1 / 26	4.33	11.10	0.013	23.00	-11.90
	QPSK	3680.0	H	103	58	6.25	1 / 53	5.62	11.87	0.015	23.00	-11.13
16-QAM	3680.0	H	103	58	6.25	1 / 26	5.21	<b>11.46</b>	0.014	23.00	-11.54	
40 MHz	QPSK (CP-OFDM)	3680.0	H	103	58	6.25	1 / 26	4.45	10.70	0.012	23.00	-12.30

Table 7-13. EIRP Data (NR Band n48 – Ant E)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.0	V	262	99	7.14	1 / 26	9.39	16.53	0.045	23.00	-6.47
	$\pi/2$ BPSK	3625.0	V	254	103	6.91	1 / 79	9.64	16.55	0.045	23.00	-6.45
	$\pi/2$ BPSK	3680.0	V	252	93	6.63	1 / 53	8.96	15.59	0.036	23.00	-7.41
	QPSK	3570.0	V	262	99	7.14	1 / 26	9.37	16.51	0.045	23.00	-6.49
	QPSK	3625.0	V	254	103	6.91	1 / 79	9.66	<b>16.57</b>	<b>0.045</b>	23.00	-6.43
	QPSK	3680.0	V	252	93	6.63	1 / 79	9.03	15.66	0.037	23.00	-7.34
	16-QAM	3570.0	V	262	99	7.14	1 / 26	9.19	<b>16.33</b>	<b>0.043</b>	23.00	-6.67
40 MHz	QPSK (CP-OFDM)	3625.0	V	254	103	6.91	1 / 79	7.73	<b>14.64</b>	<b>0.029</b>	23.00	-8.36

Table 7-14. EIRP Data (NR Band n48 – Ant G)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.0	H	103	227	7.27	1 / 79	2.37	9.64	0.009	23.00	-13.36
	$\pi/2$ BPSK	3625.0	H	102	233	6.77	1 / 53	4.57	11.34	0.014	23.00	-11.66
	$\pi/2$ BPSK	3680.0	H	114	236	6.25	1 / 79	5.67	<b>11.92</b>	<b>0.016</b>	23.00	-11.08
	QPSK	3570.0	H	103	227	7.27	1 / 79	2.33	9.60	0.009	23.00	-13.40
	QPSK	3625.0	H	102	233	6.77	1 / 26	4.50	11.27	0.013	23.00	-11.73
	QPSK	3680.0	H	114	236	6.25	1 / 79	5.52	11.77	0.015	23.00	-11.23
	16-QAM	3680.0	H	114	236	6.25	1 / 79	4.58	<b>10.83</b>	0.012	23.00	-12.17
40 MHz	QPSK (CP-OFDM)	3680.0	H	114	236	6.25	1 / 79	3.64	<b>9.89</b>	<b>0.010</b>	23.00	-13.11

Table 7-15. EIRP Data (NR Band n48 – Ant D)

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## 7.7 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

### Test Settings

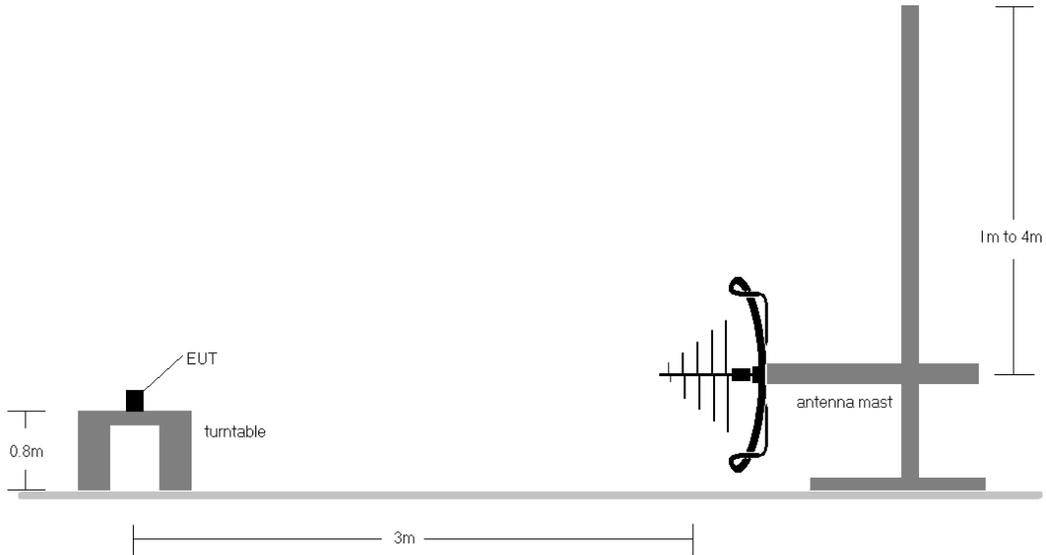
1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

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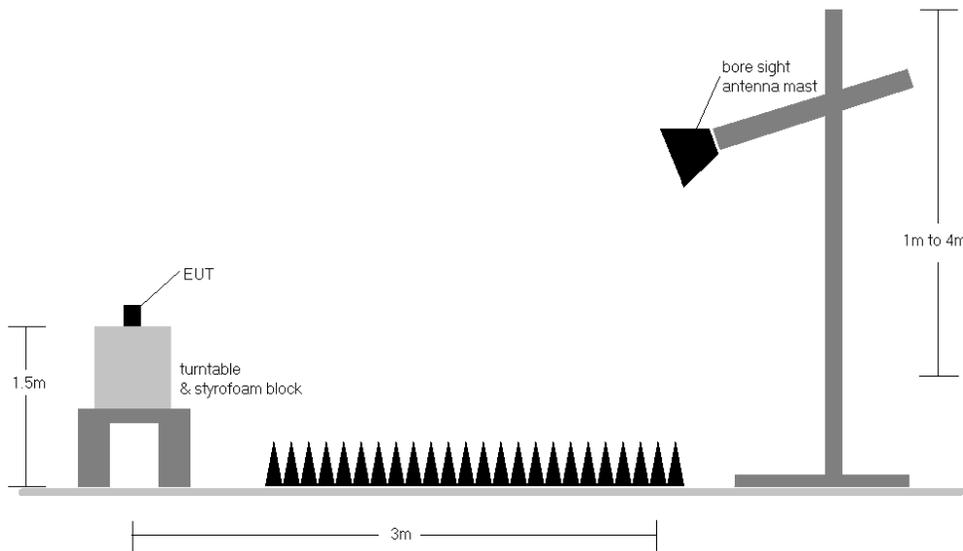
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**Test Setup**

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



**Figure 7-6. Test Instrument & Measurement Setup < 1GHz**



**Figure 7-7. Test Instrument & Measurement Setup >1 GHz**

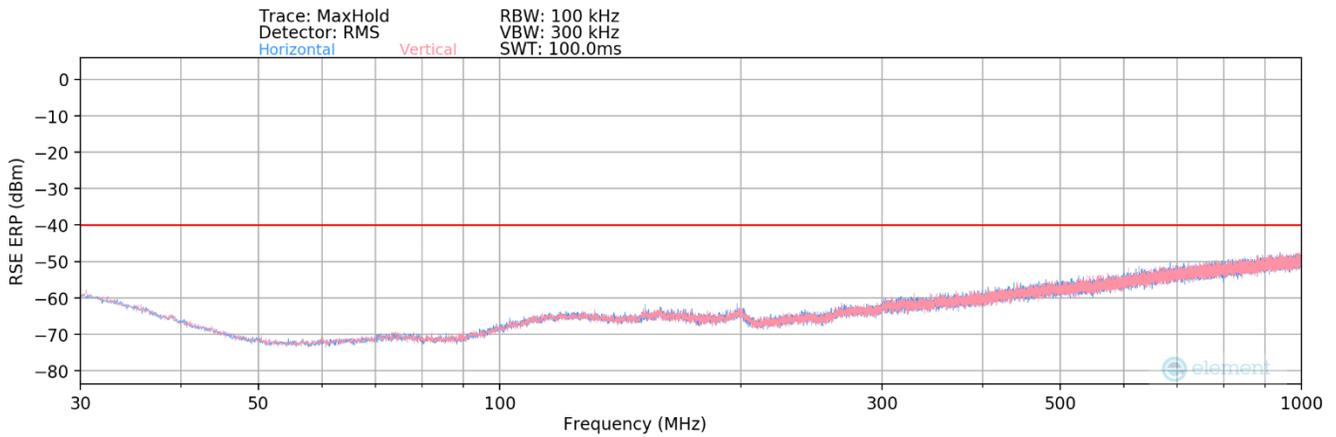
<b>FCC ID:</b> A3LSMF936U	<b>PART 96 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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**Test Notes**

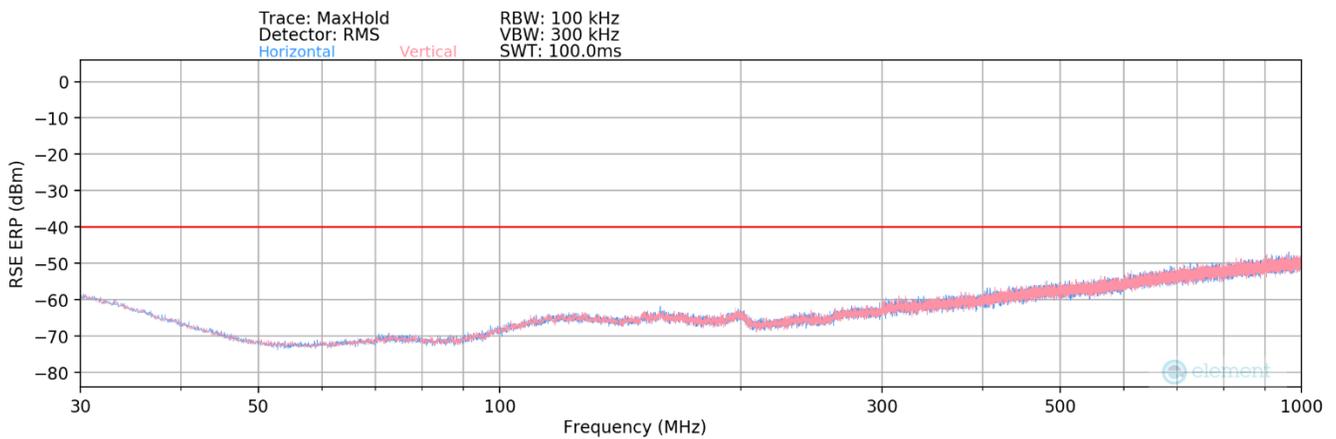
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) 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.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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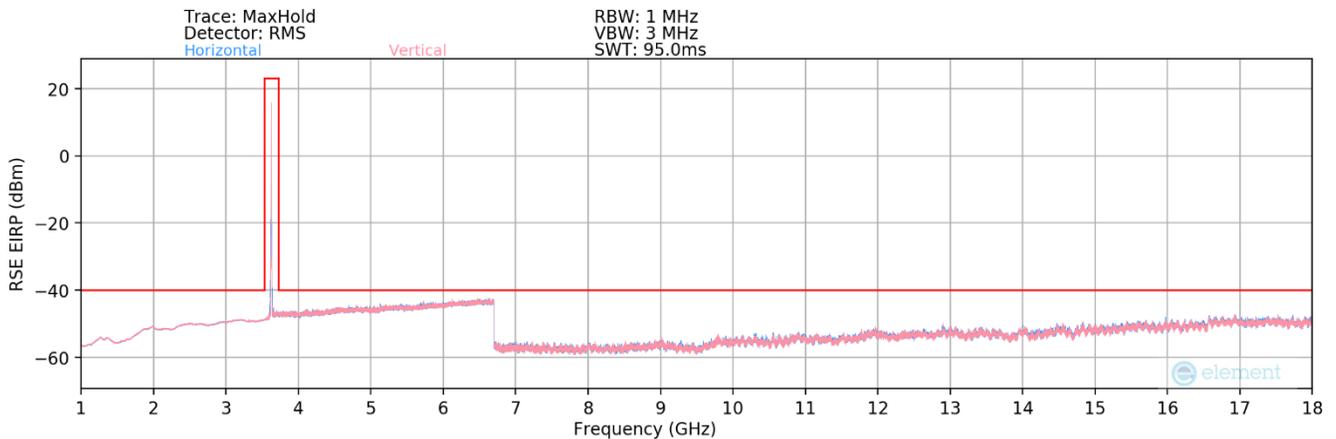
# LTE Band 48



**Plot 7-137. Radiated Spurious Plot (LTE Band 48 - Open)**

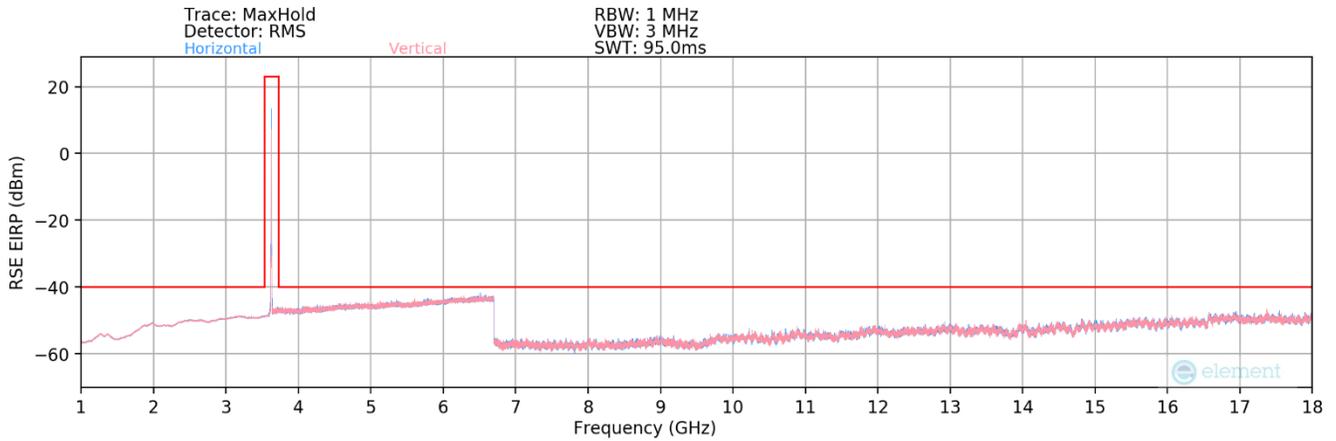


**Plot 7-138. Radiated Spurious Plot (LTE Band 48 - Closed)**

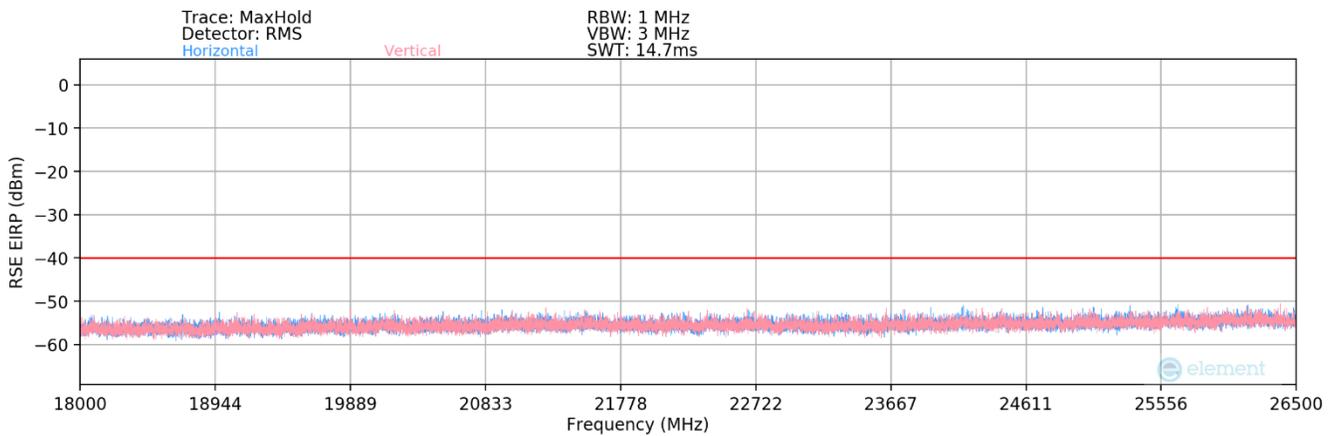


**Plot 7-139. Radiated Spurious Plot (LTE Band 48 - Open)**

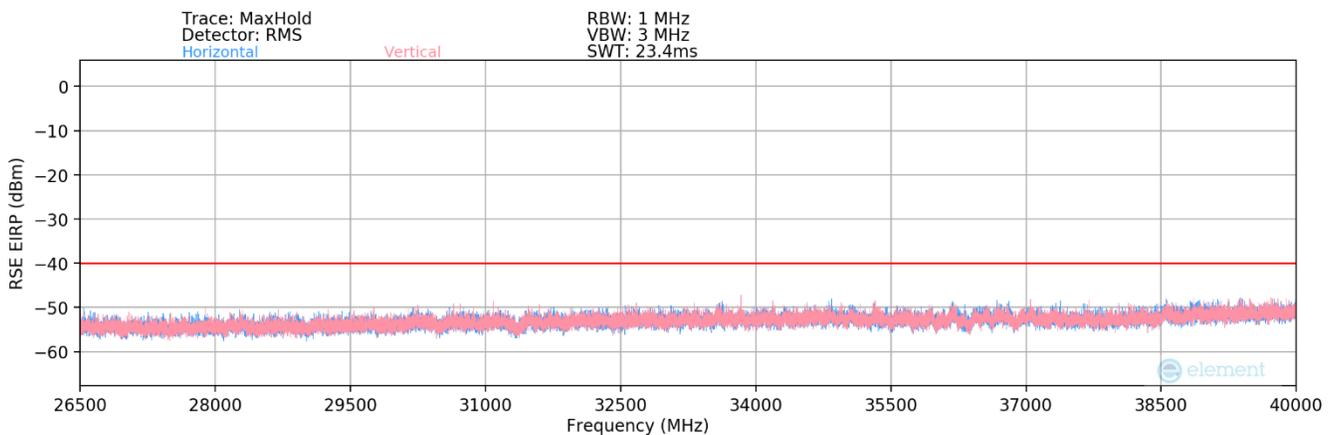
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**Plot 7-140. Radiated Spurious Plot (LTE Band 48 - Closed)**



**Plot 7-141. Radiated Spurious Plot (LTE Band 48 - Open)**



**Plot 7-142. Radiated Spurious Plot (LTE Band 48 - Open)**

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Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
171.9	H	-	-	-85.64	19.23	40.59	-56.82	-40.00	-16.82

Table 7-16. Radiated Spurious Data <1GHz (LTE Band 48 – High Channel - Open)

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7120.0	H	164	10	-75.89	8.23	39.34	-55.92	-40.00	-15.92
10680.0	H	-	-	-78.53	12.63	41.10	-54.16	-40.00	-14.16
14240.0	H	-	-	-77.96	15.38	44.42	-50.84	-40.00	-10.84
17800.0	H	-	-	-77.78	18.10	47.32	-47.94	-40.00	-7.94

Table 7-17. Radiated Spurious Data (LTE Band 48 – Low Channel - Open)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3932.3	H	163	358	-70.16	12.27	49.11	-46.15	-40.00	-6.15
7250.0	H	-	-	-76.25	7.61	38.36	-56.90	-40.00	-16.90
10875.0	H	-	-	-77.23	12.18	41.95	-53.30	-40.00	-13.30
14500.0	H	-	-	-78.42	15.49	44.07	-51.19	-40.00	-11.19

Table 7-18. Radiated Spurious Data (LTE Band 48 – Mid Channel - Open)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3997.2	H	268	346	-71.27	12.40	48.13	-47.12	-40.00	-7.12
7380.0	H	156	71	-75.50	8.30	39.80	-55.45	-40.00	-15.45
11070.0	H	-	-	-77.04	12.57	42.53	-52.73	-40.00	-12.73
14760.0	H	-	-	-78.19	16.23	45.04	-50.22	-40.00	-10.22

Table 7-19. Radiated Spurious Data (LTE Band 48 – High Channel - Open)

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Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3997.2	H	216	10	-71.88	12.40	47.52	-47.73	-40.00	-7.73
7380.0	H	138	297	-75.64	8.30	39.66	-55.59	-40.00	-15.59
11070.0	H	-	-	-77.02	12.57	42.55	-52.71	-40.00	-12.71
14760.0	H	-	-	-78.45	16.23	44.78	-50.48	-40.00	-10.48

Table 7-20. Radiated Spurious Data with WCP (LTE Band 48 – Open)

FCC ID: A3LSMF936U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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