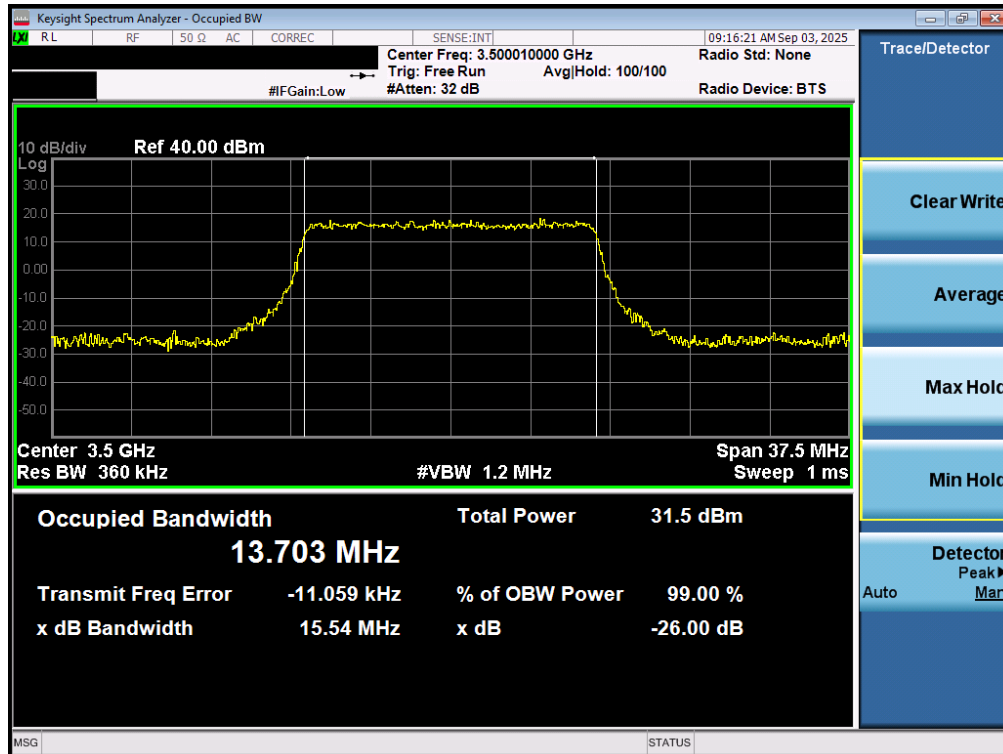
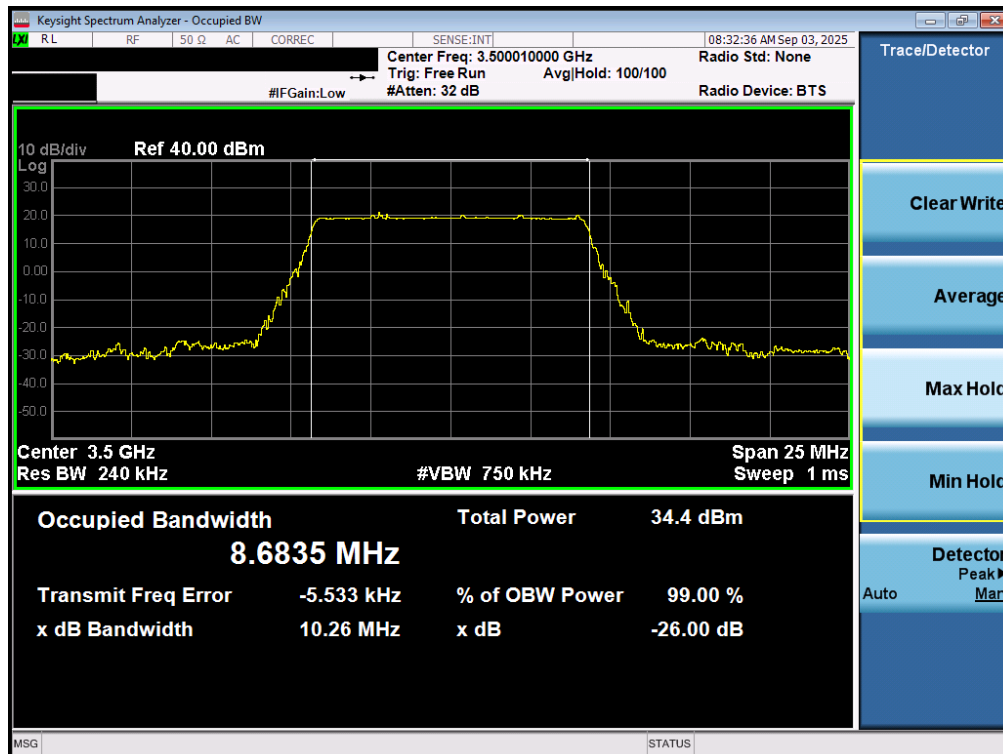


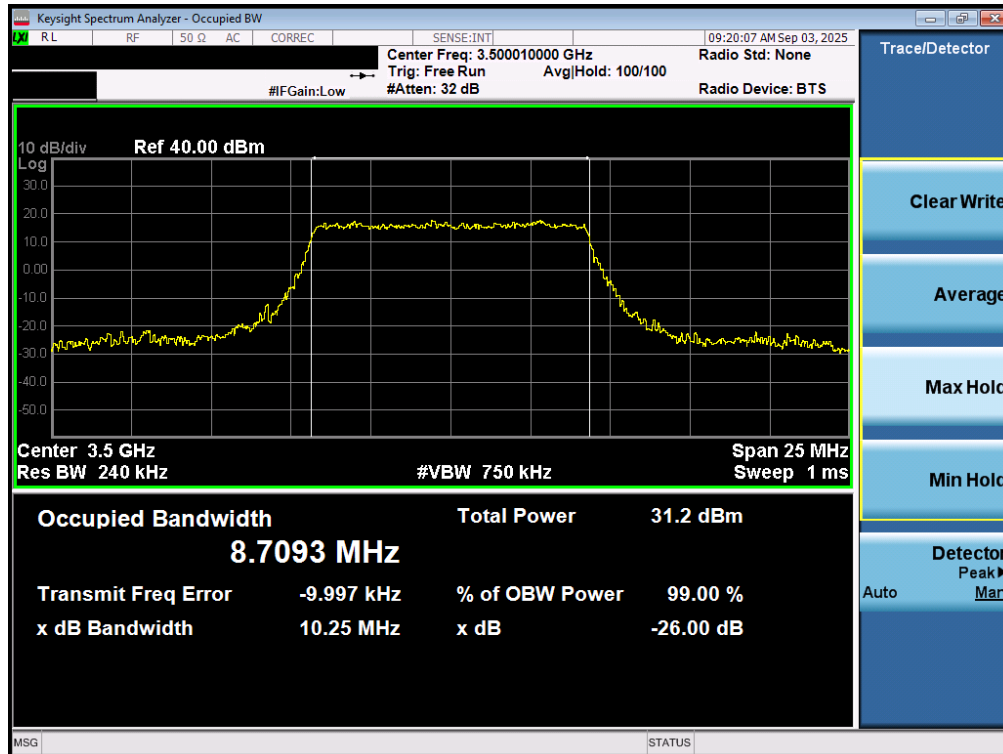


Plot 7-111. Occupied Bandwidth Plot (NR Band n77 - 15MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

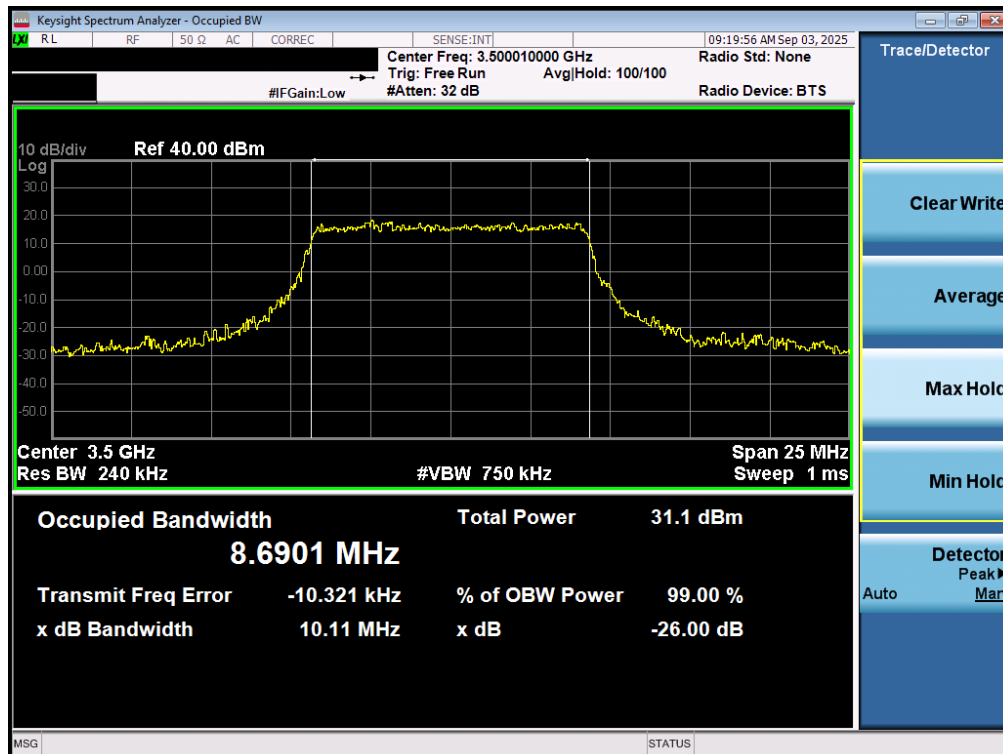


Plot 7-112. Occupied Bandwidth Plot (NR Band n77 - 10MHz $\pi/2$ BPSK - Full RB - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-113. Occupied Bandwidth Plot (NR Band n77 - 10MHz QPSK - Full RB - Ant2 - DoD Band - UL-MIMO)



Plot 7-114. Occupied Bandwidth Plot (NR Band n77 - 10MHz 16-QAM - Full RB - Ant2 - DoD Band - UL-MIMO)

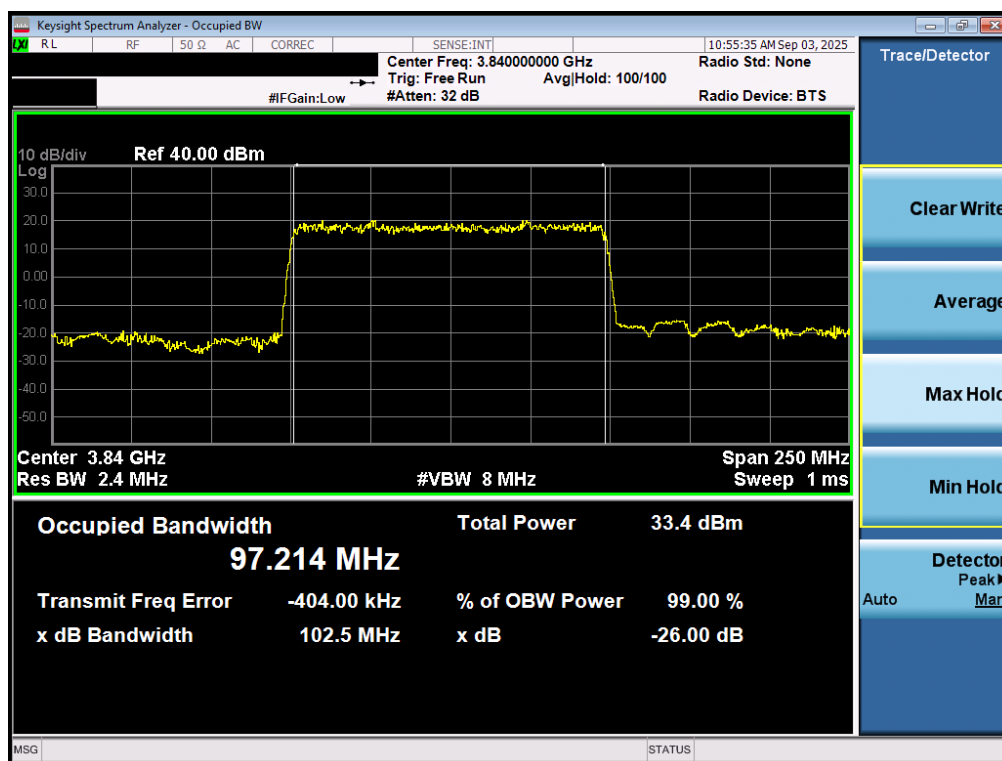
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 88 of 180

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	97.214
		QPSK	98.103
		16QAM	97.953
	90MHz	$\pi/2$ BPSK	86.999
		QPSK	87.814
		16QAM	87.932
	80MHz	$\pi/2$ BPSK	77.317
		QPSK	77.814
		16QAM	77.865
	70MHz	$\pi/2$ BPSK	64.445
		QPSK	67.690
		16QAM	67.555
	60MHz	$\pi/2$ BPSK	58.022
		QPSK	57.993
		16QAM	57.945
	50MHz	$\pi/2$ BPSK	45.868
		QPSK	47.829
		16QAM	47.806
	40MHz	$\pi/2$ BPSK	35.947
		QPSK	38.129
		16QAM	38.102
	30MHz	$\pi/2$ BPSK	27.039
		QPSK	28.043
		16QAM	28.080
	25MHz	$\pi/2$ BPSK	23.001
		QPSK	23.278
		16QAM	23.247
	20MHz	$\pi/2$ BPSK	18.006
		QPSK	18.331
		16QAM	18.382
	15MHz	$\pi/2$ BPSK	13.018
		QPSK	13.646
		16QAM	13.716
	10MHz	$\pi/2$ BPSK	8.588
		QPSK	8.687
		16QAM	8.636

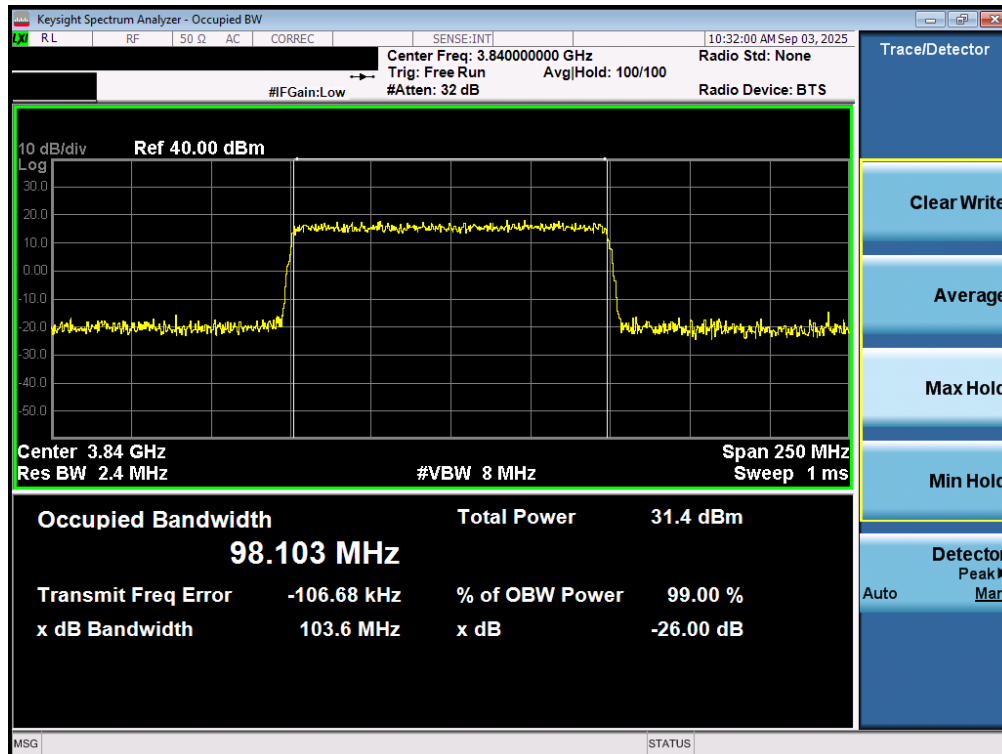
Table 7-19. Occupied Bandwidth Results – Ant2 – C-Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77PC2 - Ant1 - C-Band - UL-MIMO

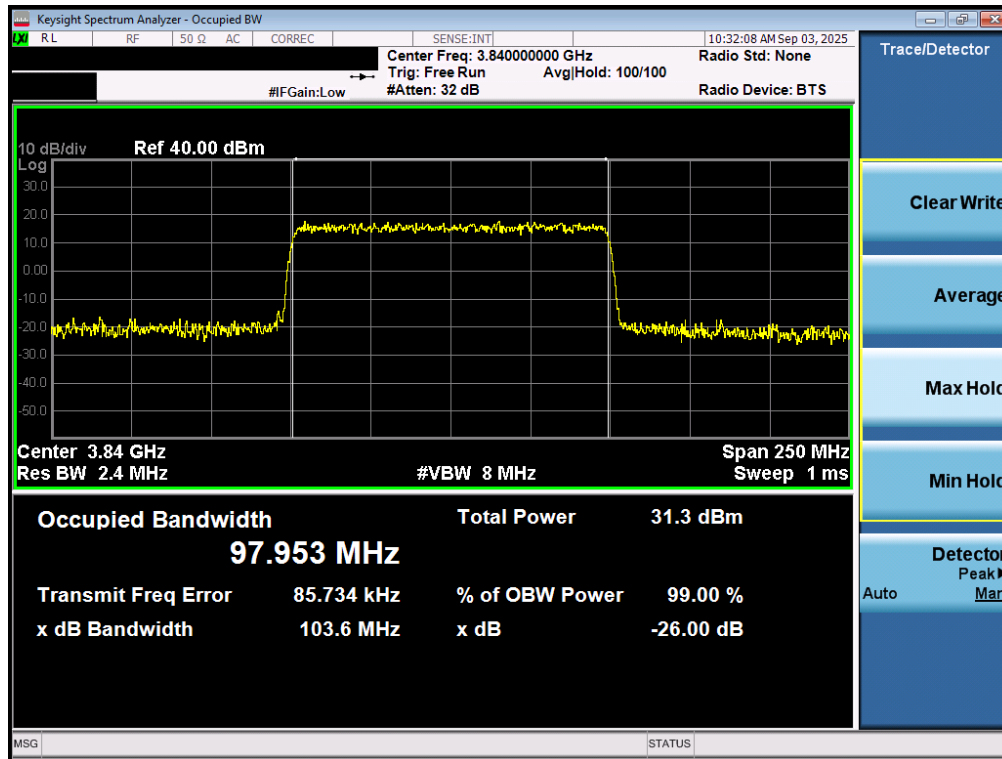


Plot 7-115. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

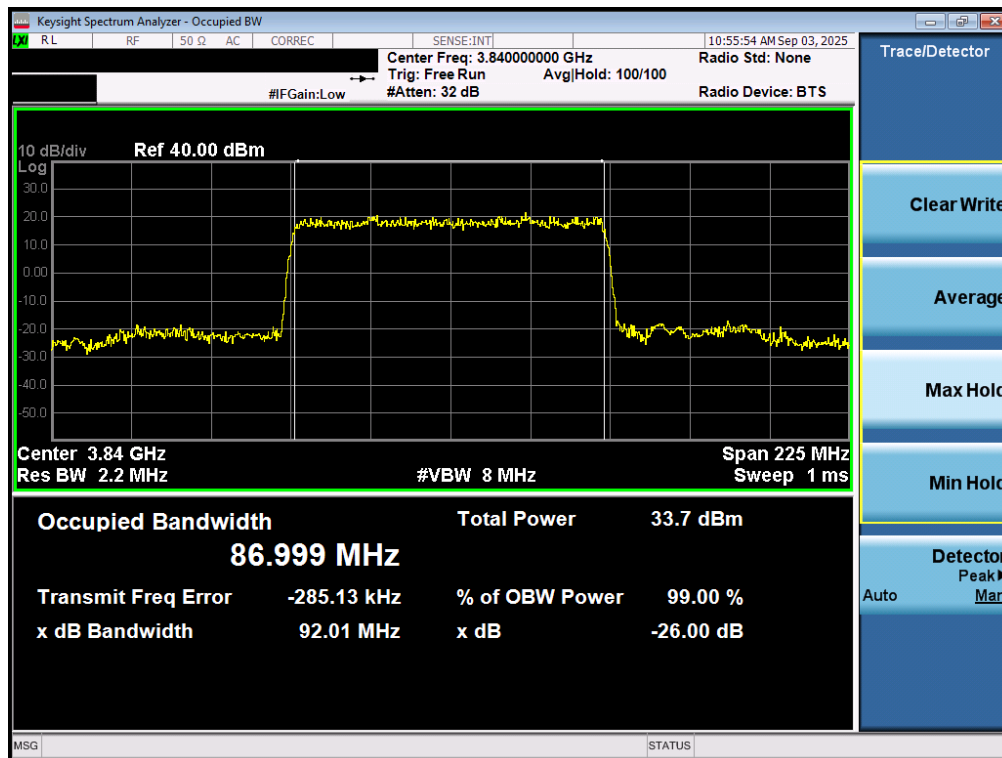


Plot 7-116. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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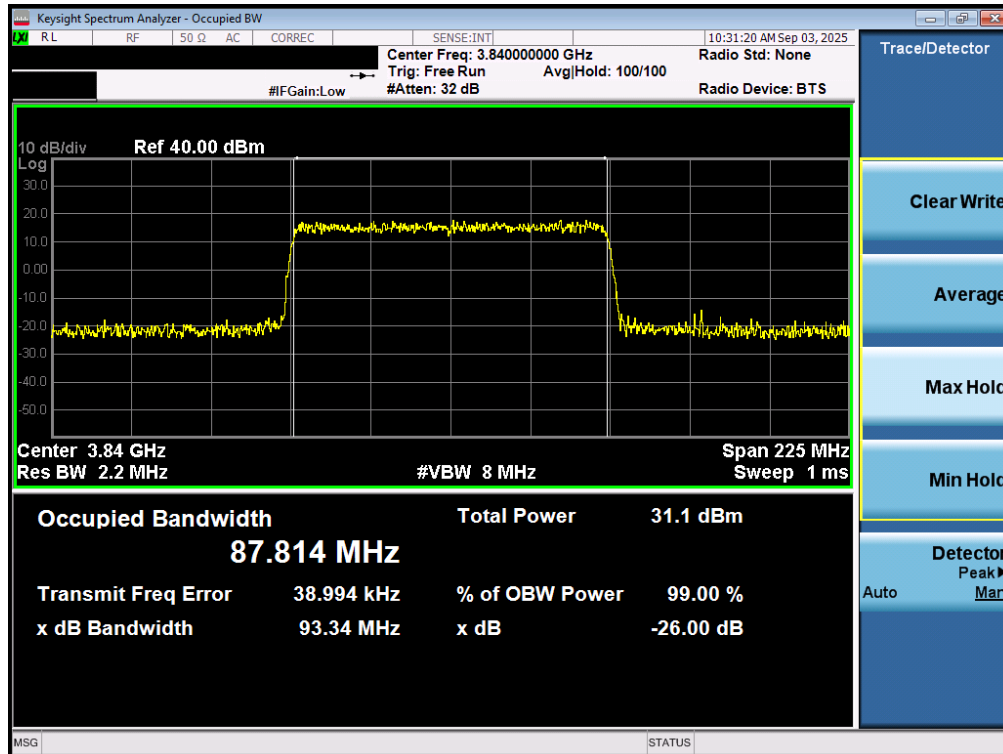


Plot 7-117. Occupied Bandwidth Plot (NR Band n77PC2 - 100MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

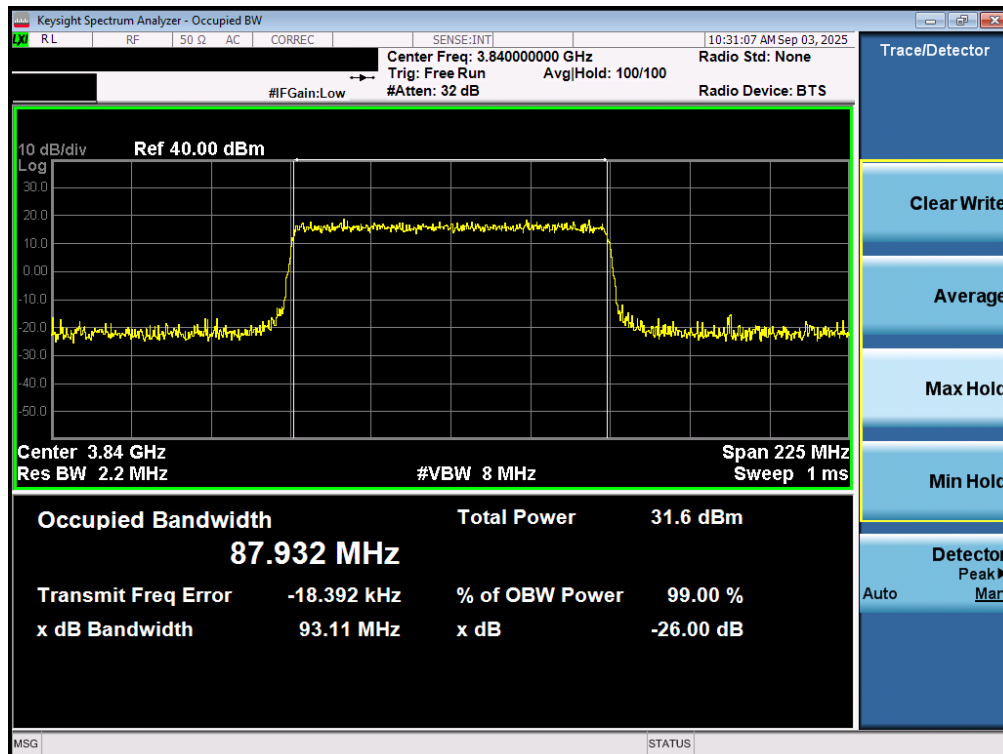


Plot 7-118. Occupied Bandwidth Plot (NR Band n77 - 90MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 91 of 180

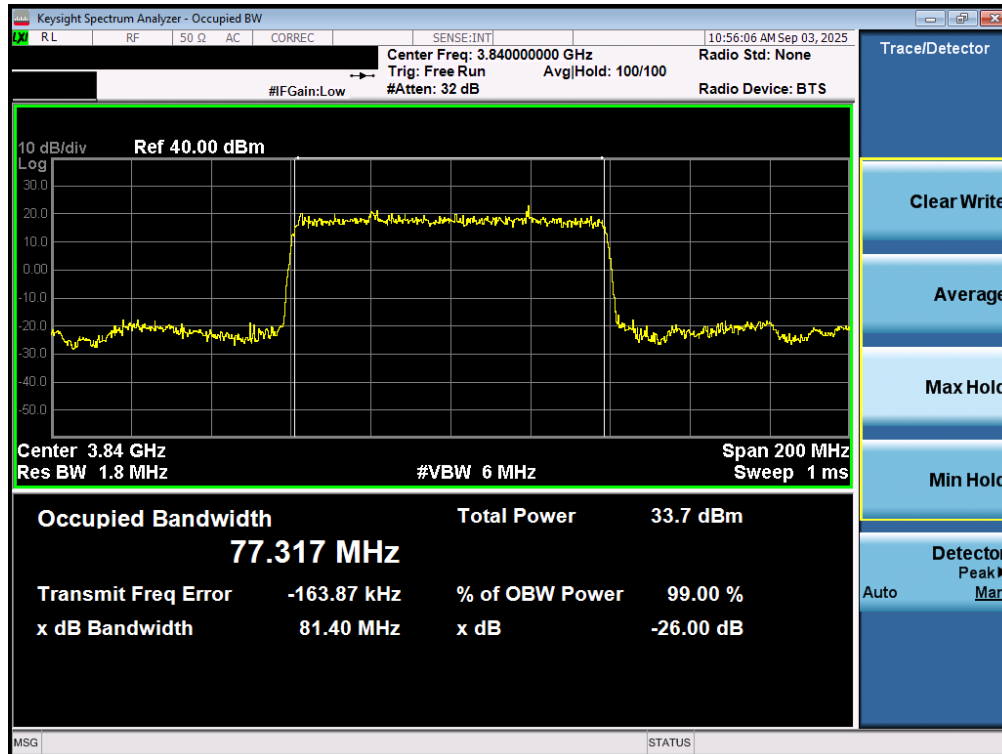


Plot 7-119. Occupied Bandwidth Plot (NR Band n77 - 90MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

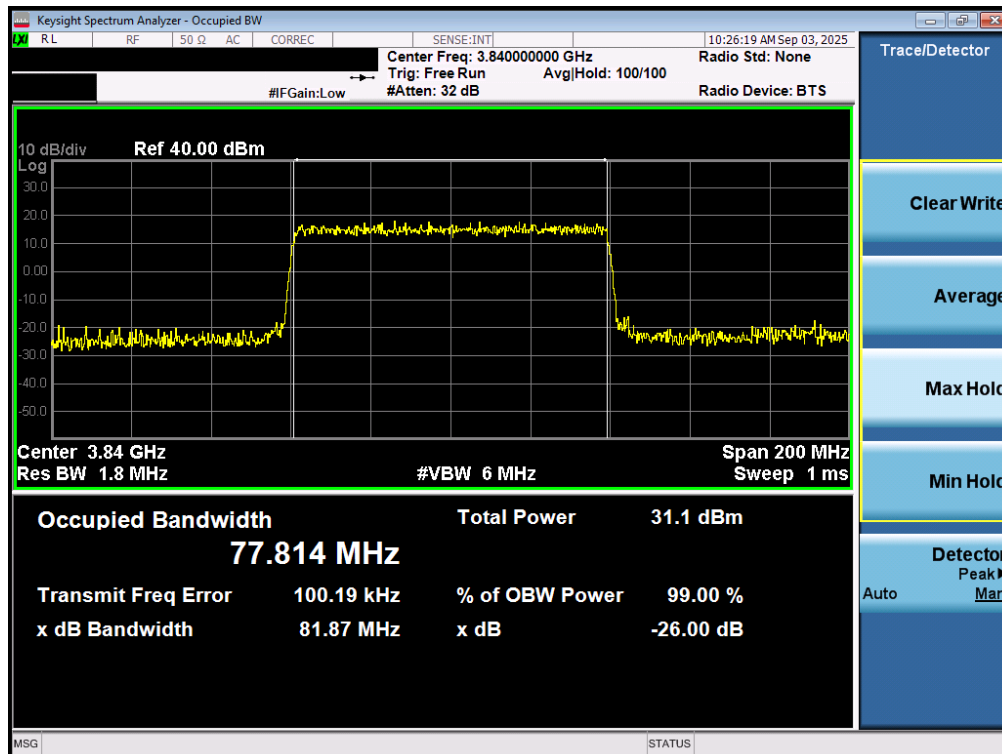


Plot 7-120. Occupied Bandwidth Plot (NR Band n77 - 90MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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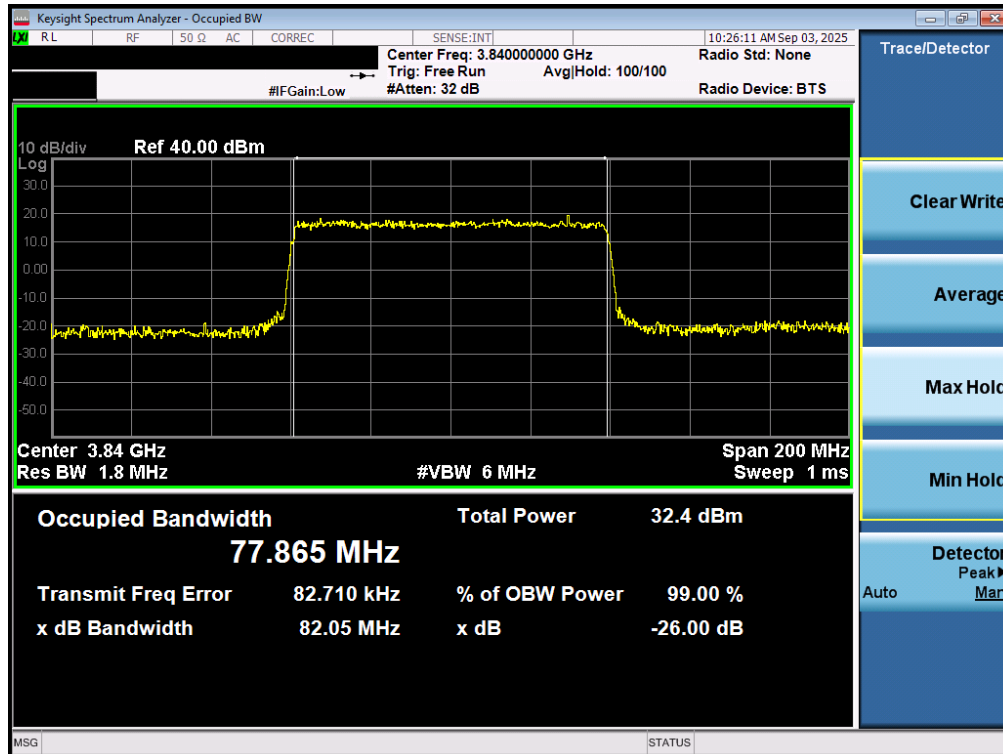


Plot 7-121. Occupied Bandwidth Plot (NR Band n77 - 80MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

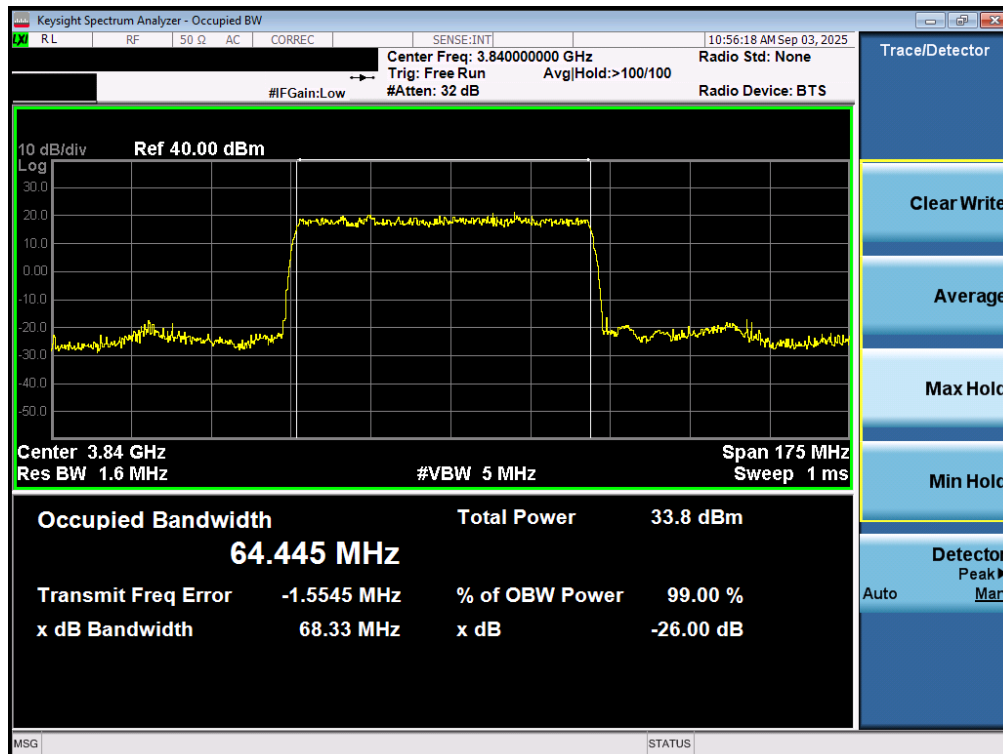


Plot 7-122. Occupied Bandwidth Plot (NR Band n77 - 80MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 93 of 180

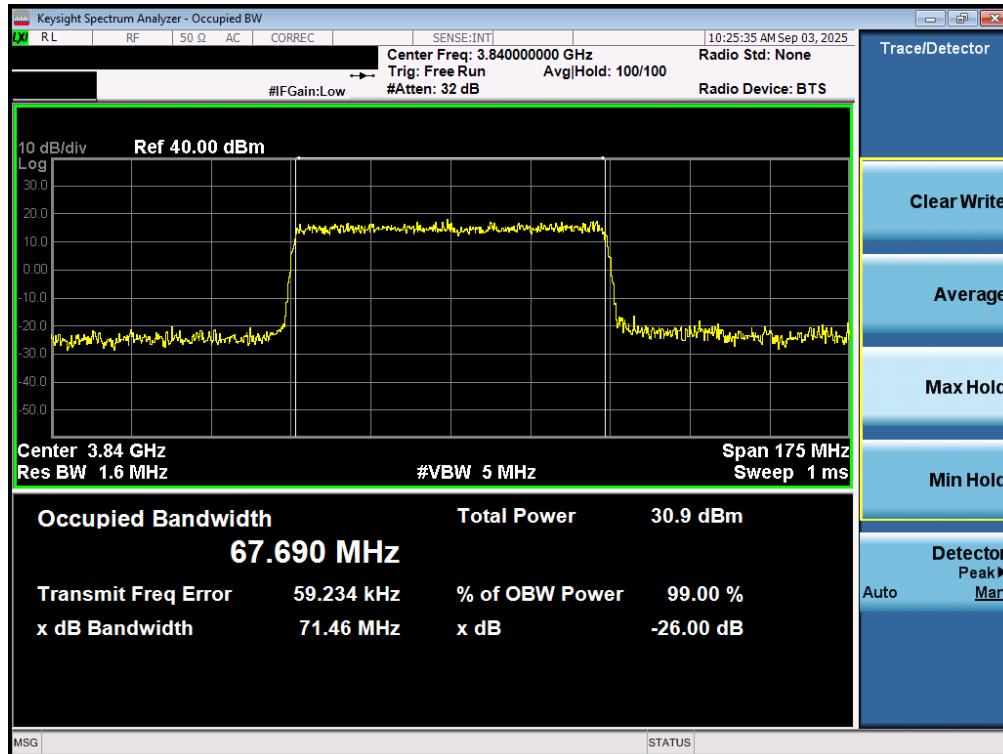


Plot 7-123. Occupied Bandwidth Plot (NR Band n77 - 80MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

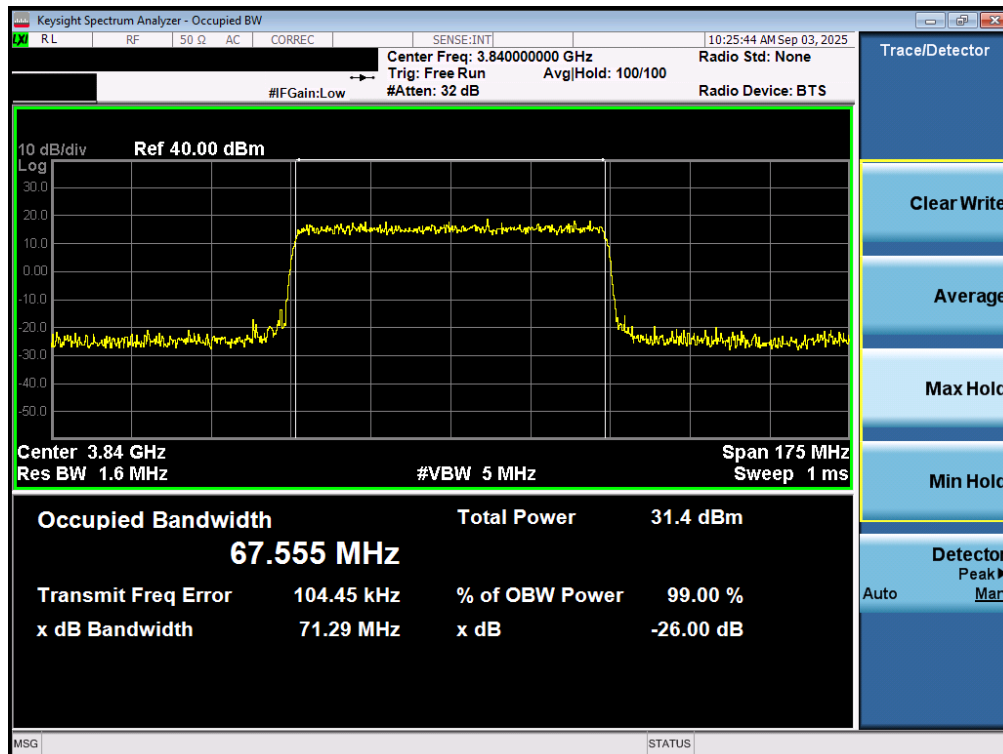


Plot 7-124. Occupied Bandwidth Plot (NR Band n77 - 70MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 94 of 180

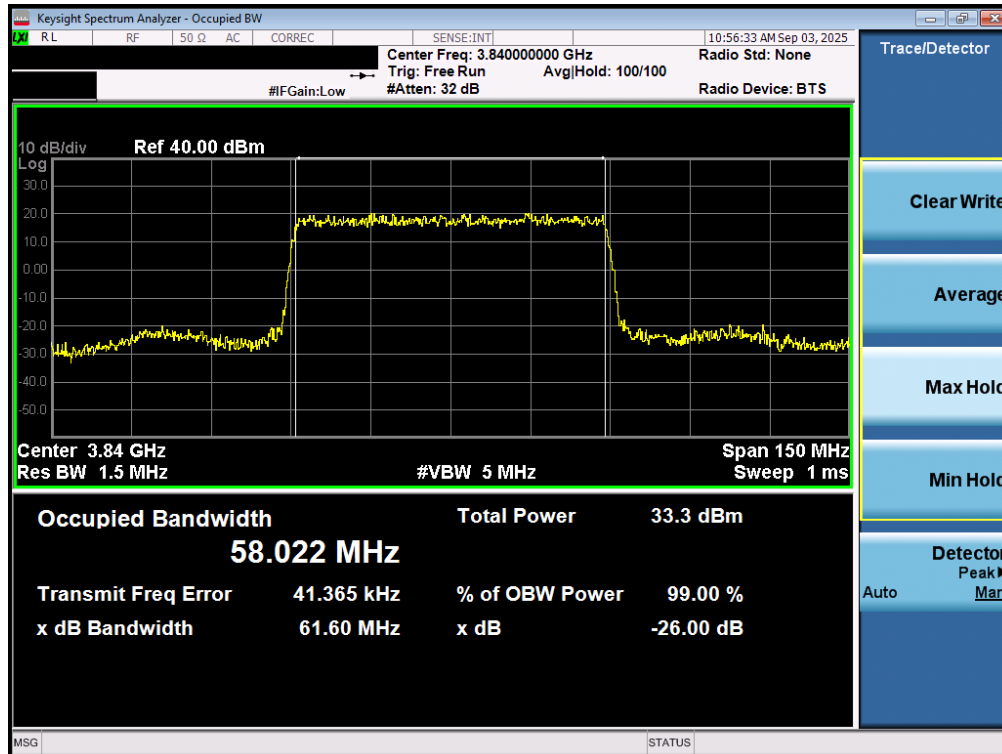


Plot 7-125. Occupied Bandwidth Plot (NR Band n77 - 70MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

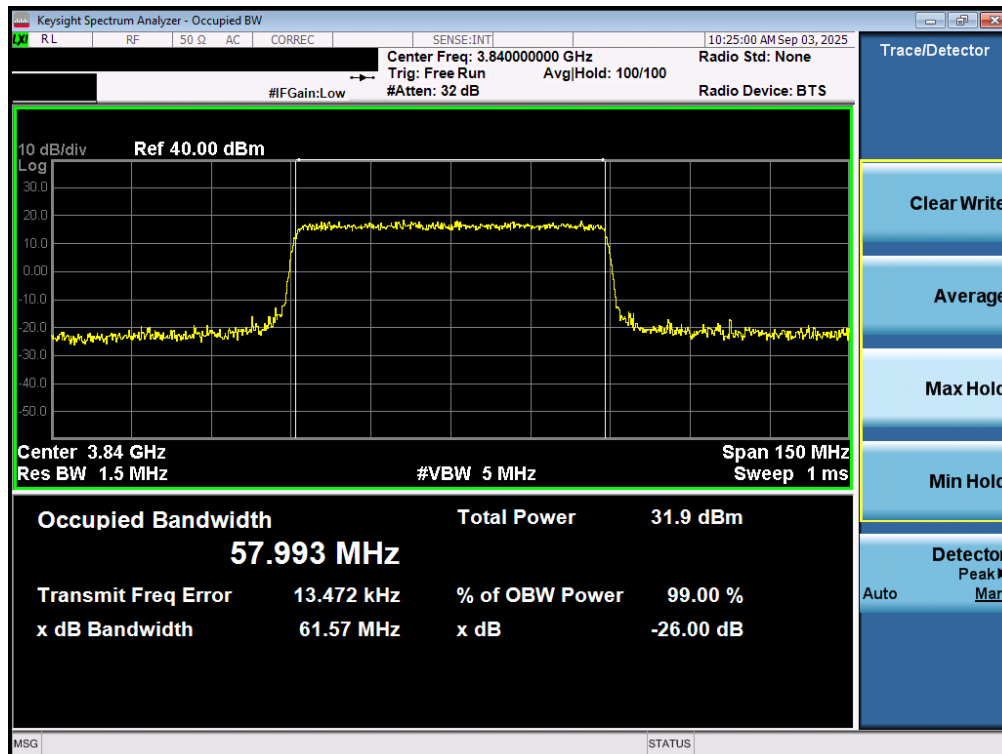


Plot 7-126. Occupied Bandwidth Plot (NR Band n77 - 70MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 95 of 180

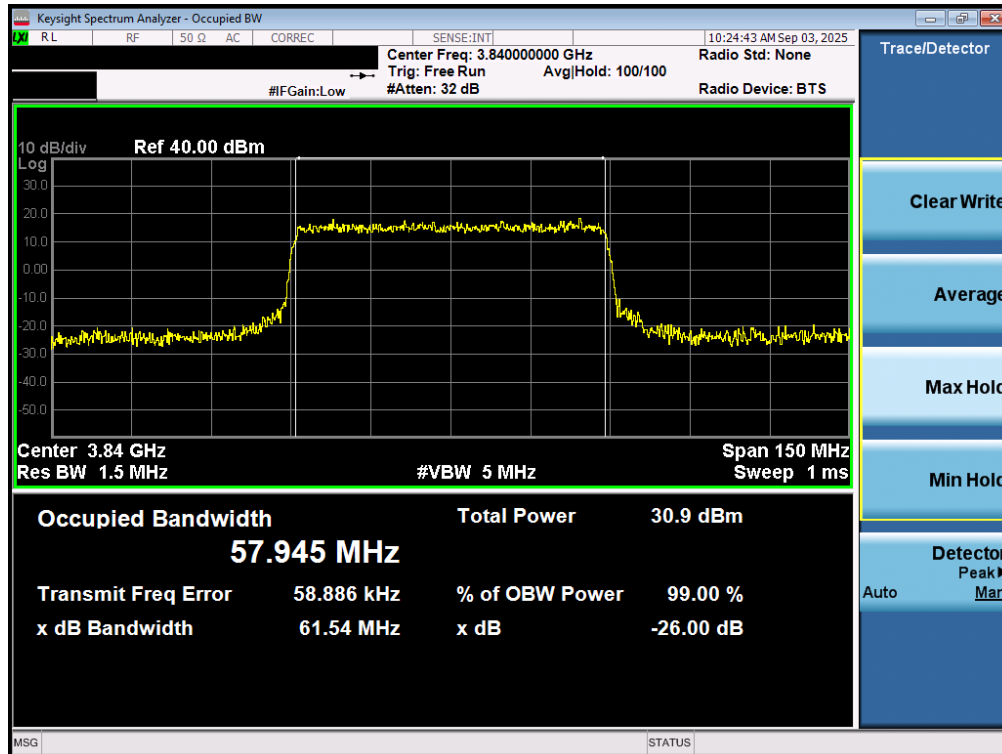


Plot 7-127. Occupied Bandwidth Plot (NR Band n77 - 60MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

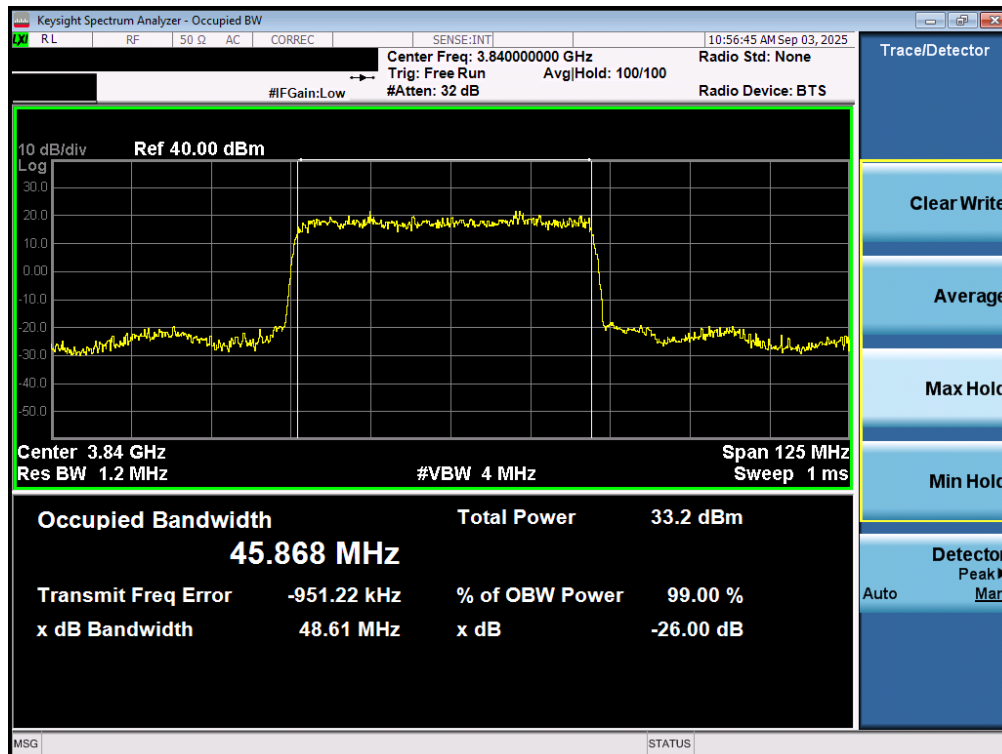


Plot 7-128. Occupied Bandwidth Plot (NR Band n77 - 60MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 96 of 180

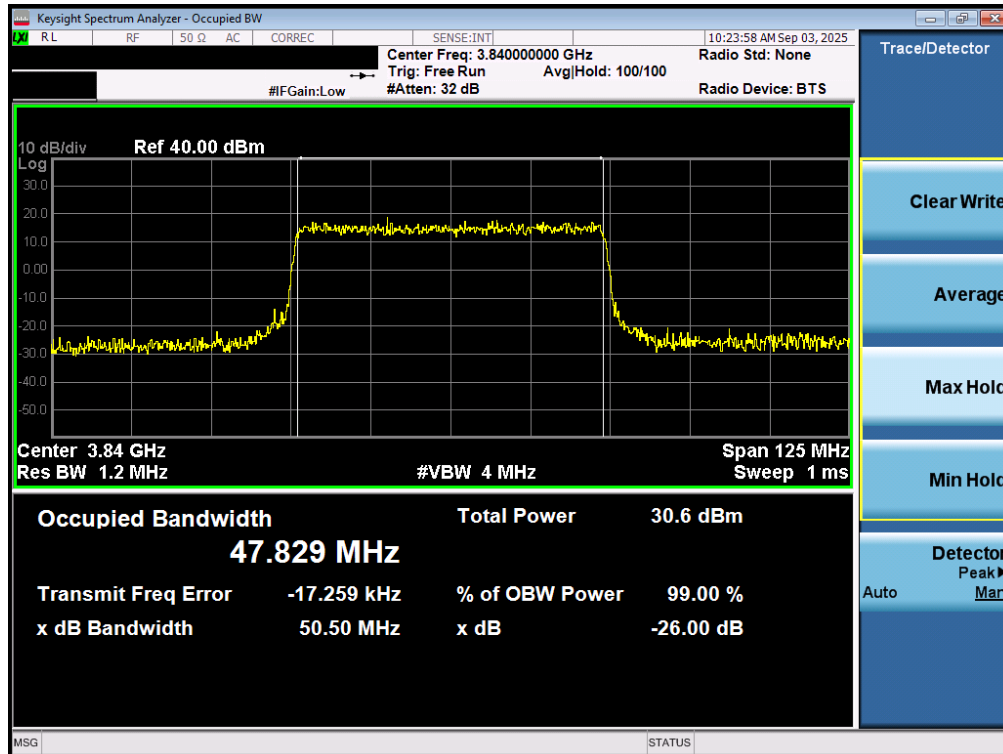


Plot 7-129. Occupied Bandwidth Plot (NR Band n77 - 60MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

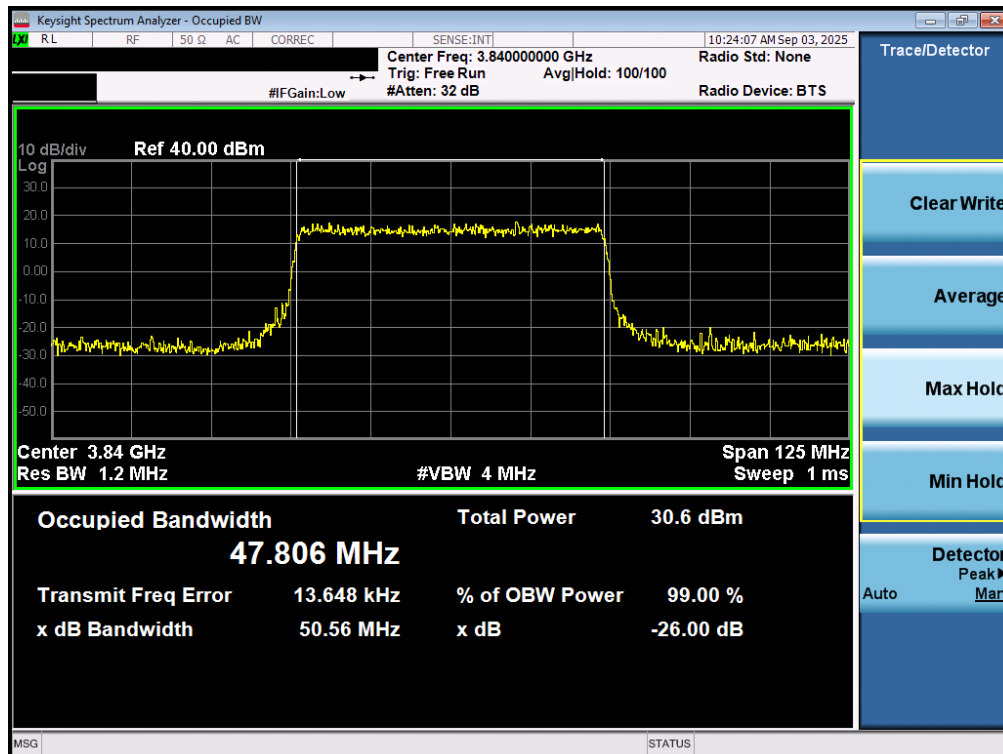


Plot 7-130. Occupied Bandwidth Plot (NR Band n77 - 50MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 97 of 180

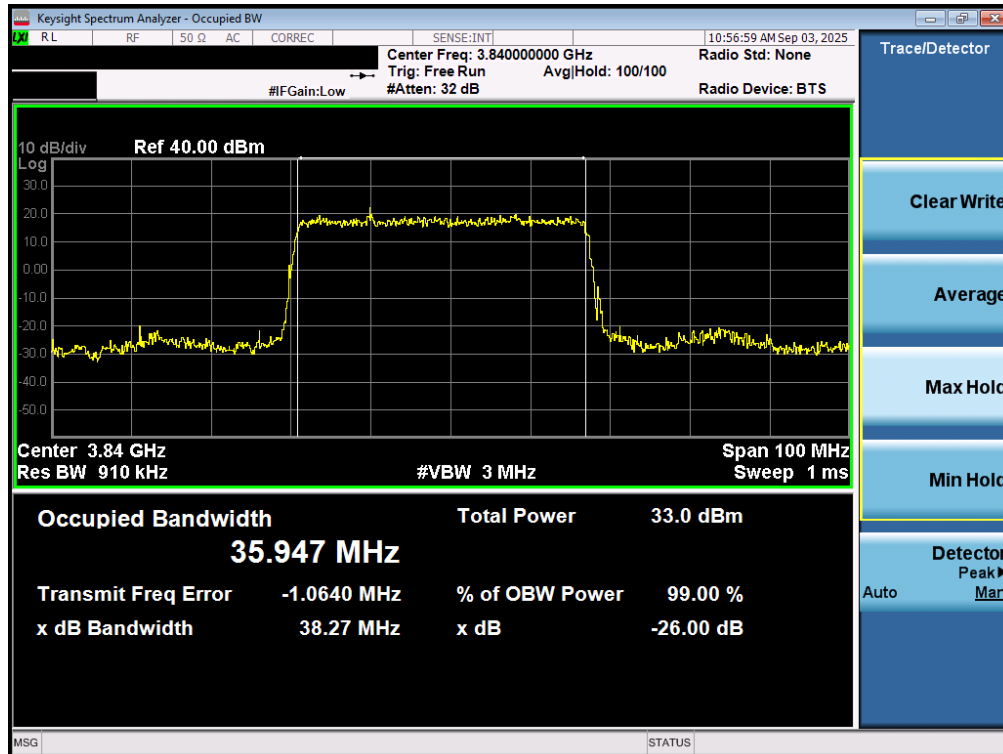


Plot 7-131. Occupied Bandwidth Plot (NR Band n77 - 50MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

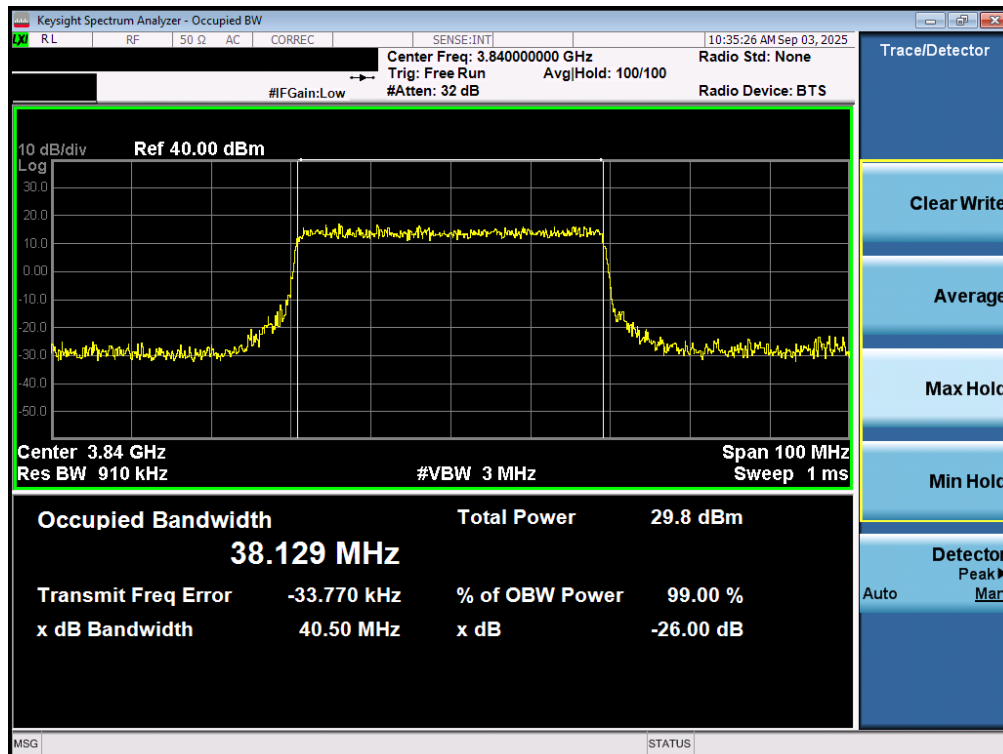


Plot 7-132. Occupied Bandwidth Plot (NR Band n77 - 50MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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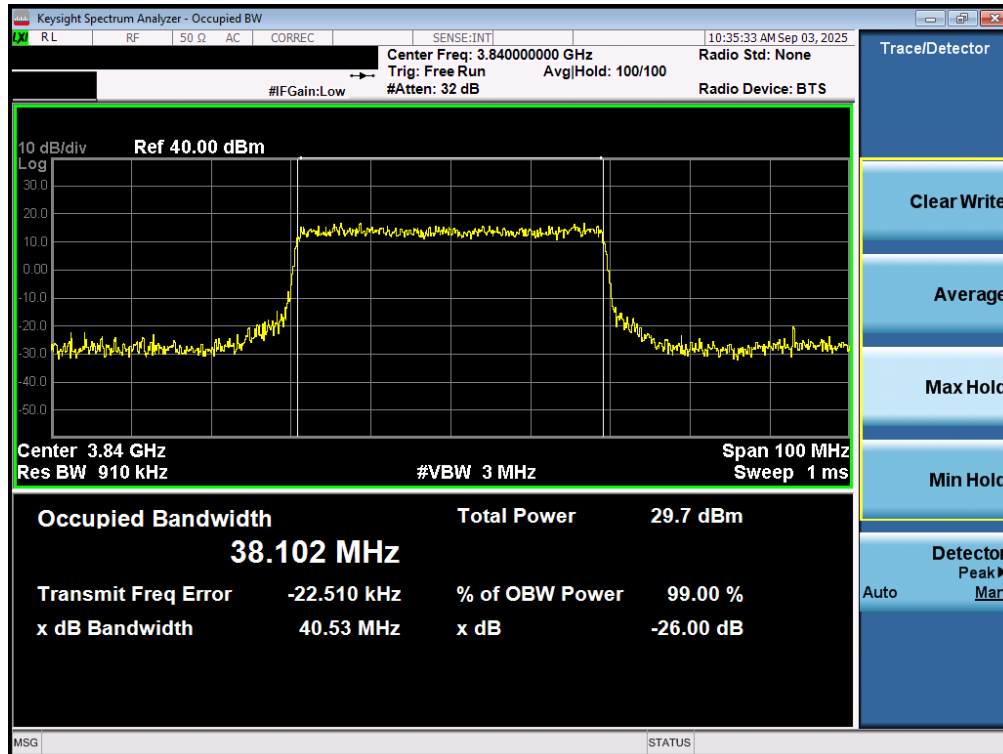


Plot 7-133. Occupied Bandwidth Plot (NR Band n77 - 40MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

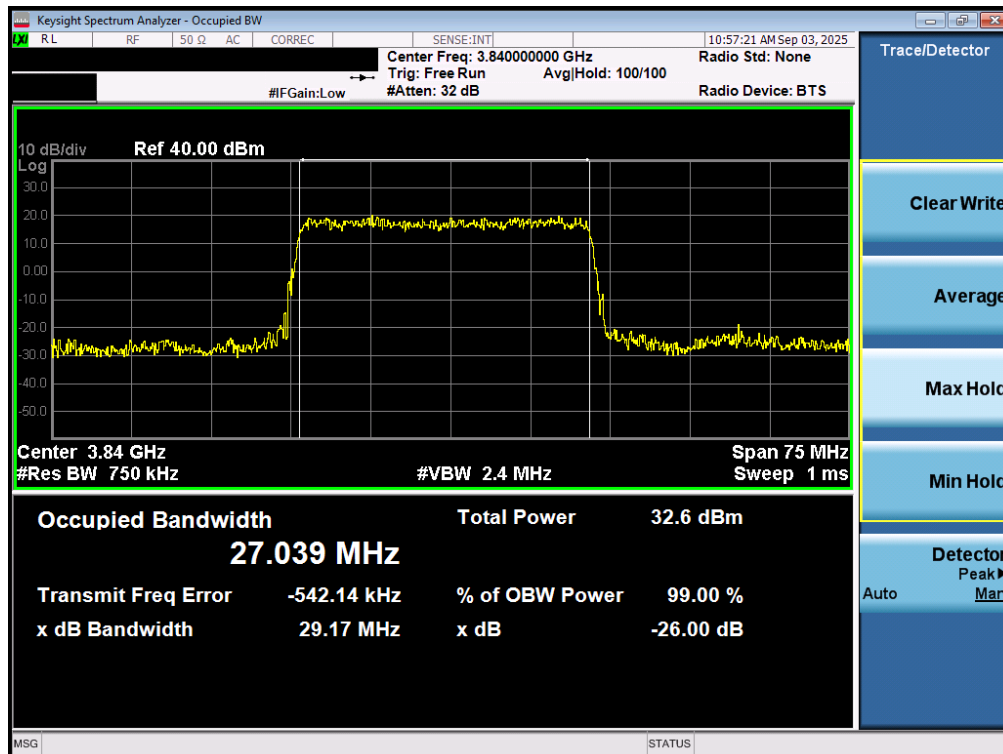


Plot 7-134. Occupied Bandwidth Plot (NR Band n77 - 40MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 99 of 180

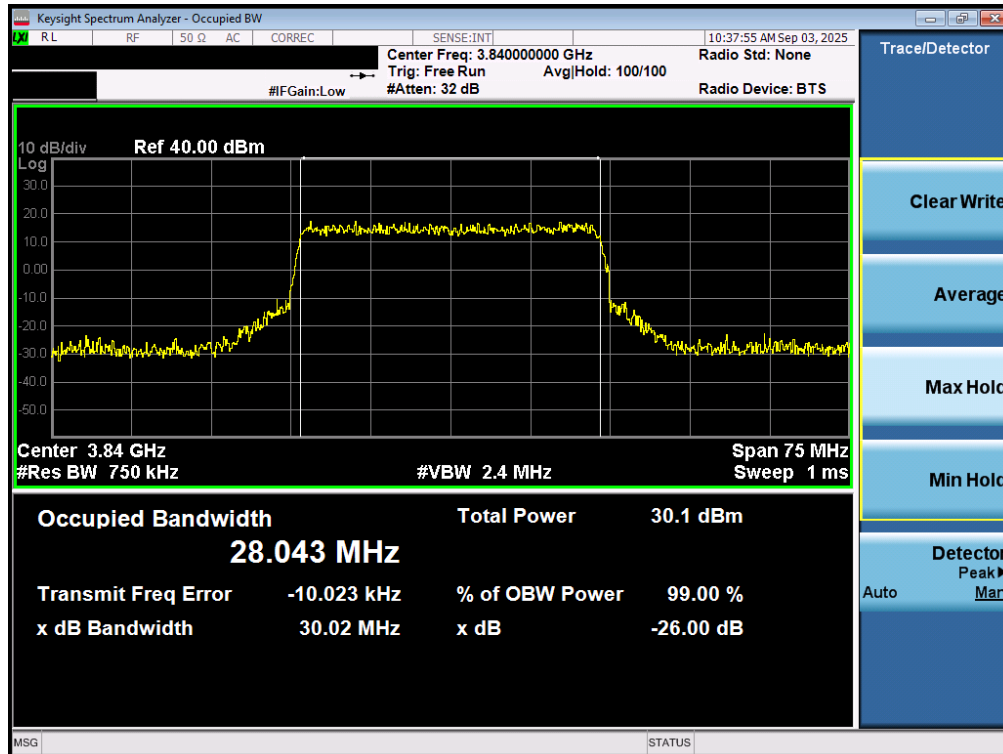


Plot 7-135. Occupied Bandwidth Plot (NR Band n77 - 40MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

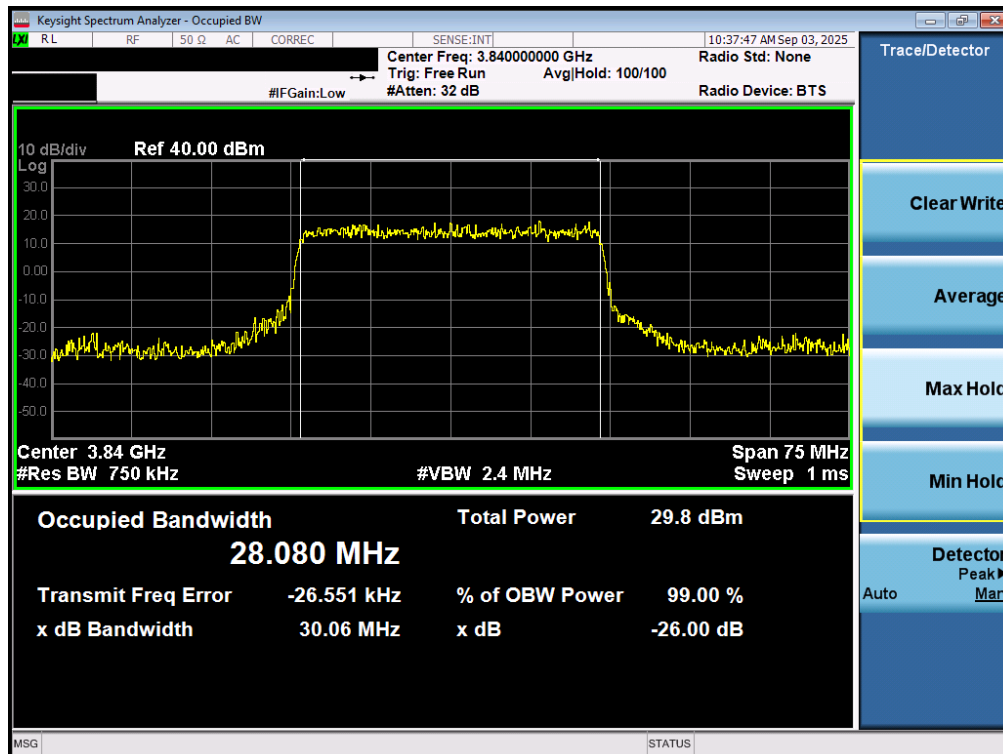


Plot 7-136. Occupied Bandwidth Plot (NR Band n77 - 30MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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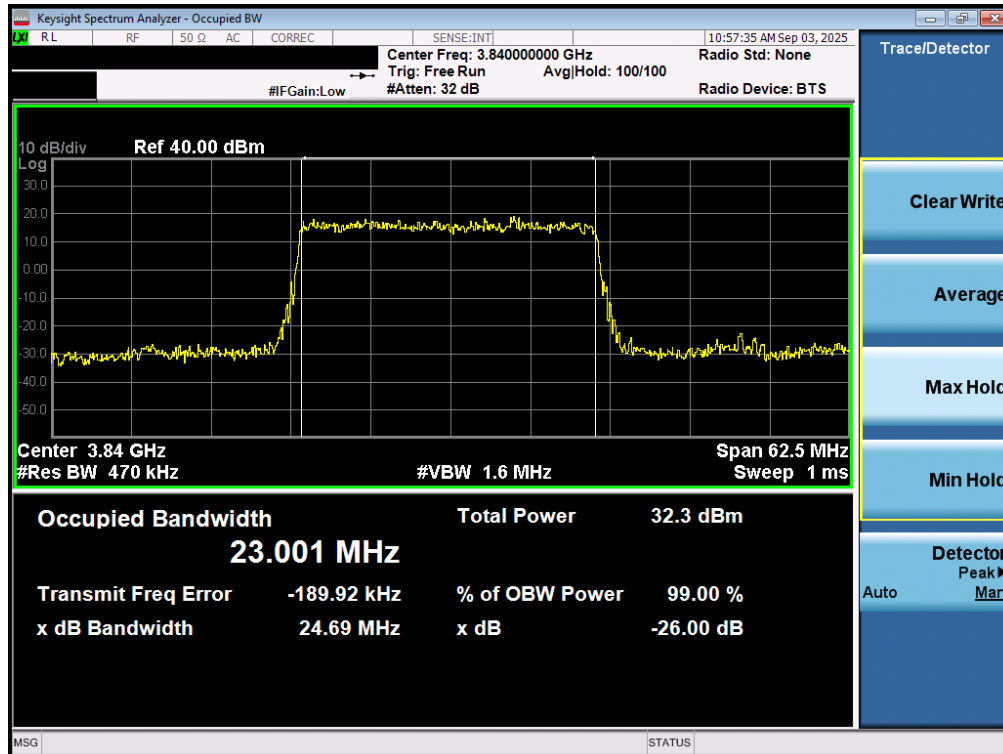


Plot 7-137. Occupied Bandwidth Plot (NR Band n77 - 30MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

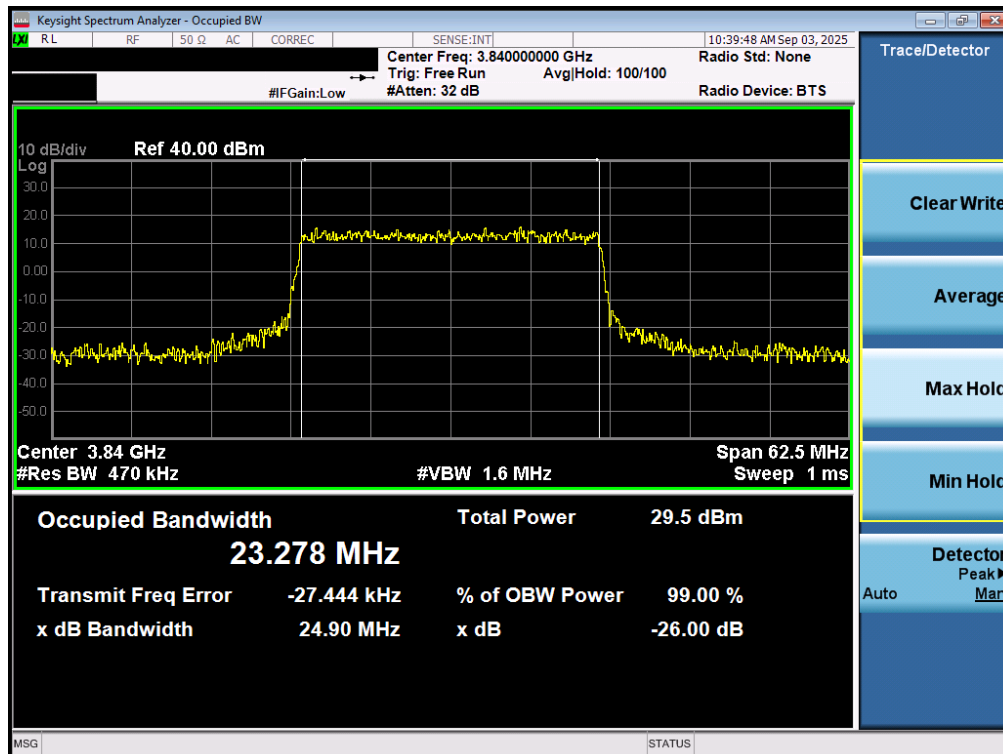


Plot 7-138. Occupied Bandwidth Plot (NR Band n77 - 30MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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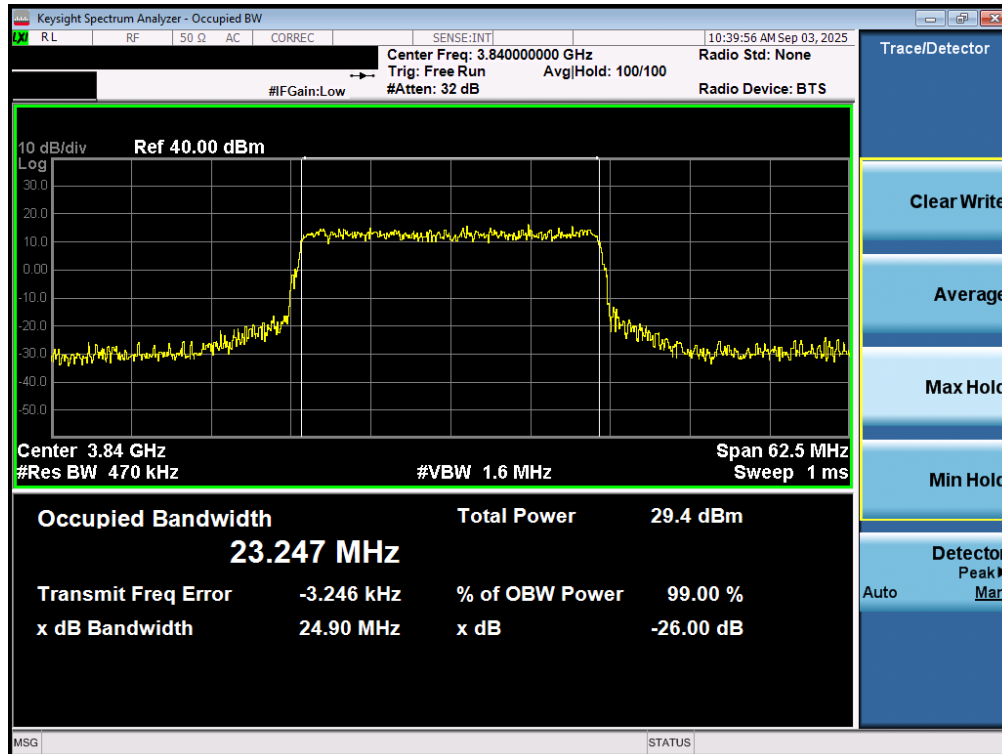


Plot 7-139. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

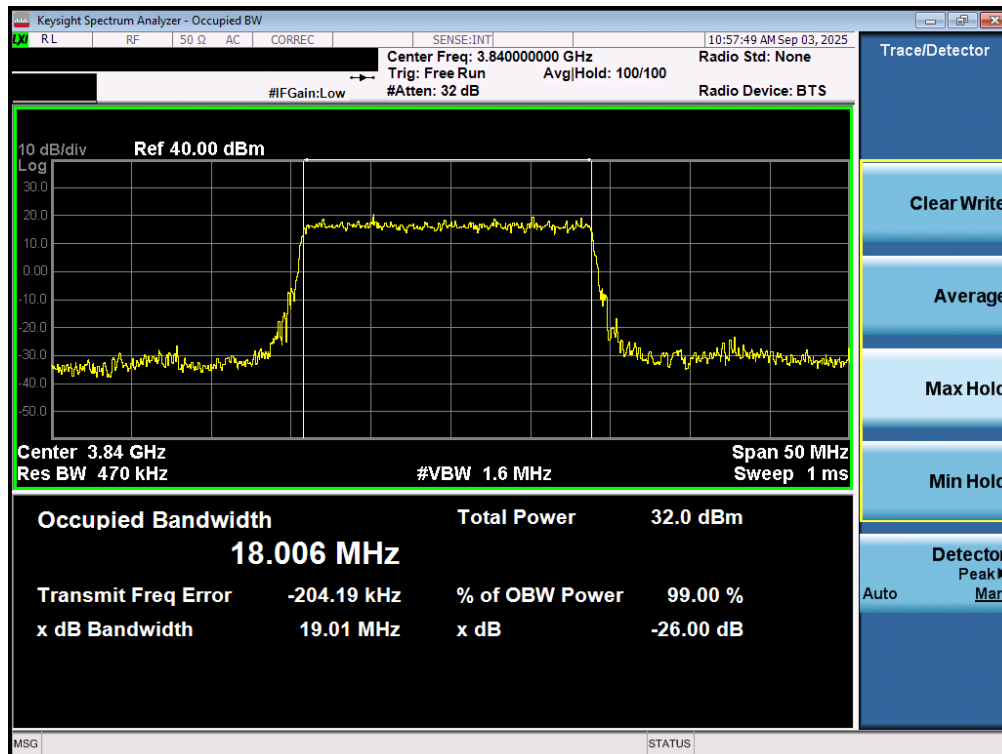


Plot 7-140. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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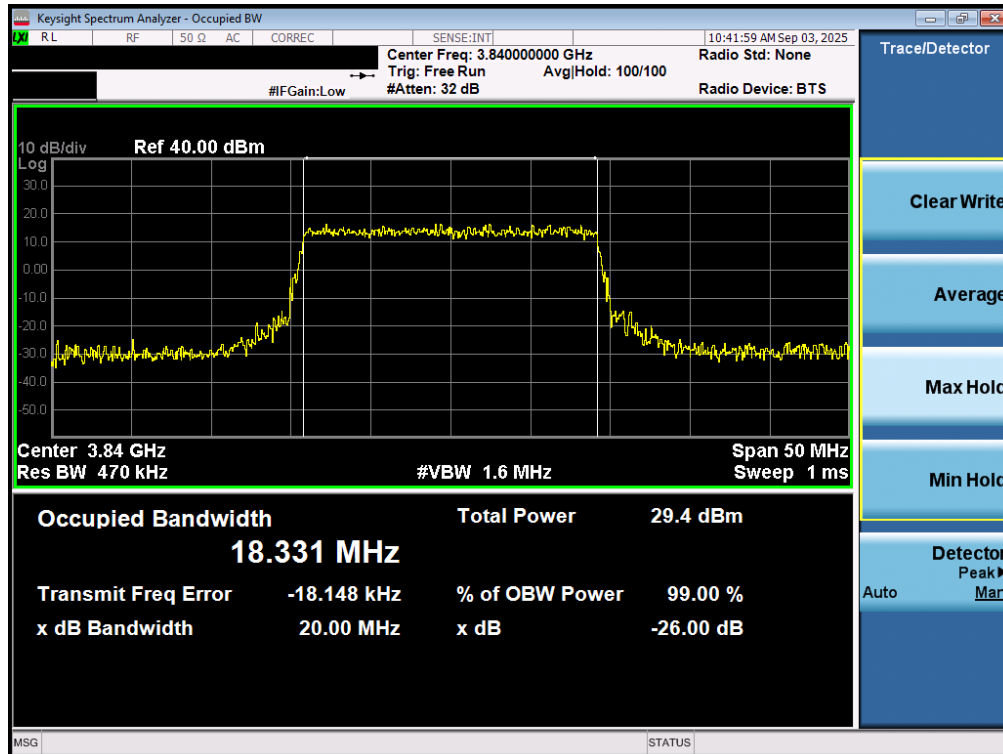


Plot 7-141. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

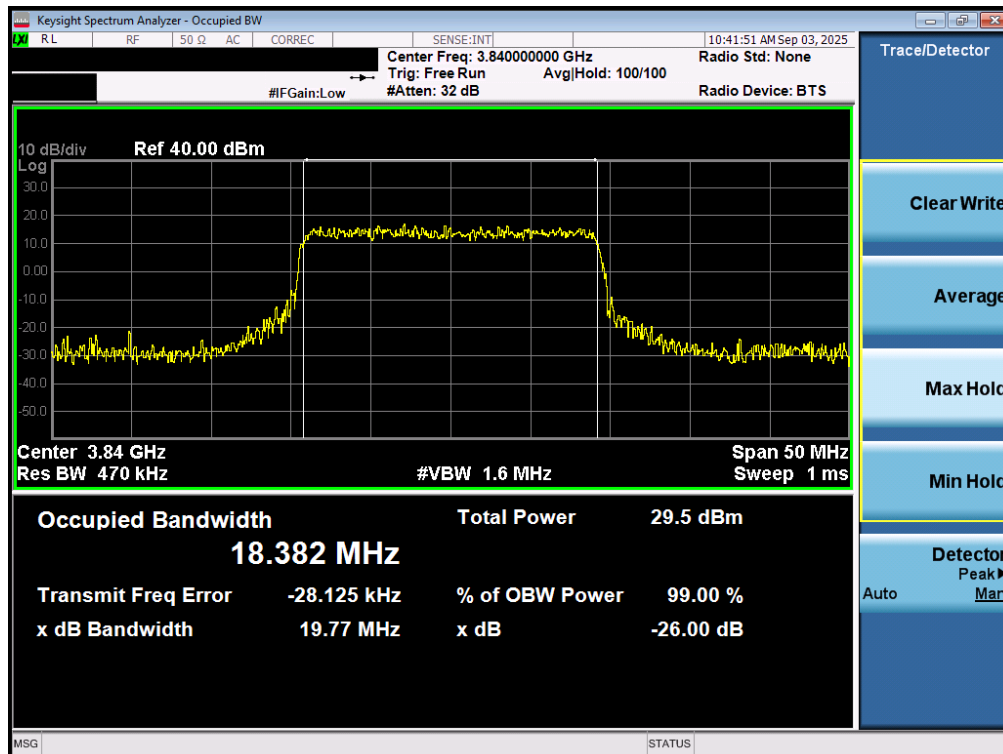


Plot 7-142. Occupied Bandwidth Plot (NR Band n77 - 20MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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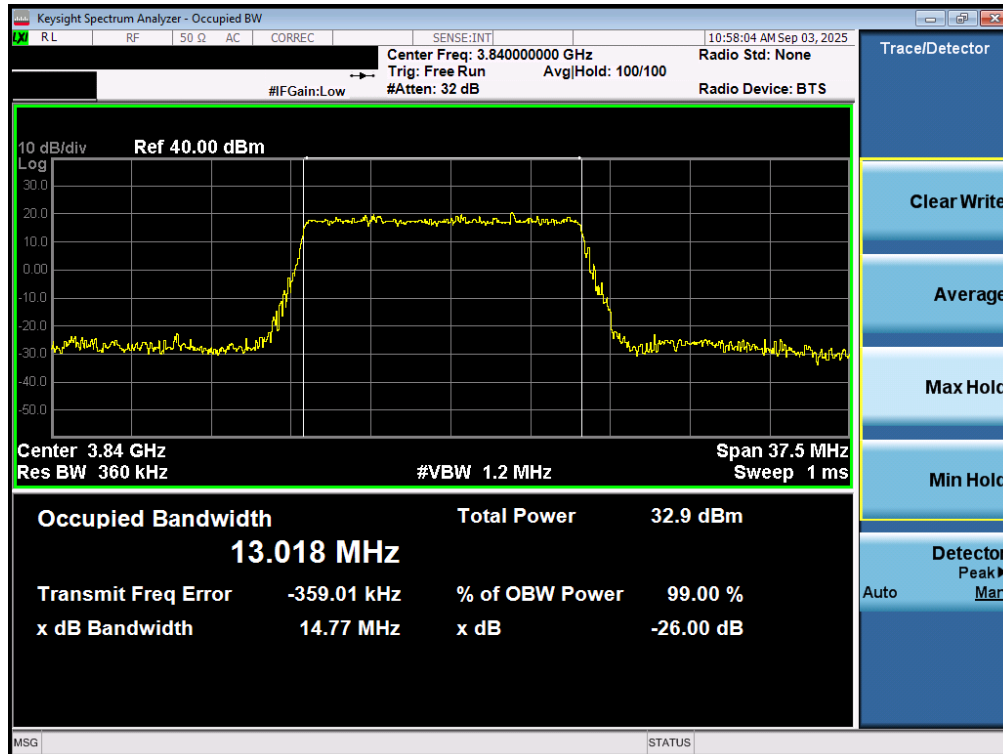


Plot 7-143. Occupied Bandwidth Plot (NR Band n77 - 20MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

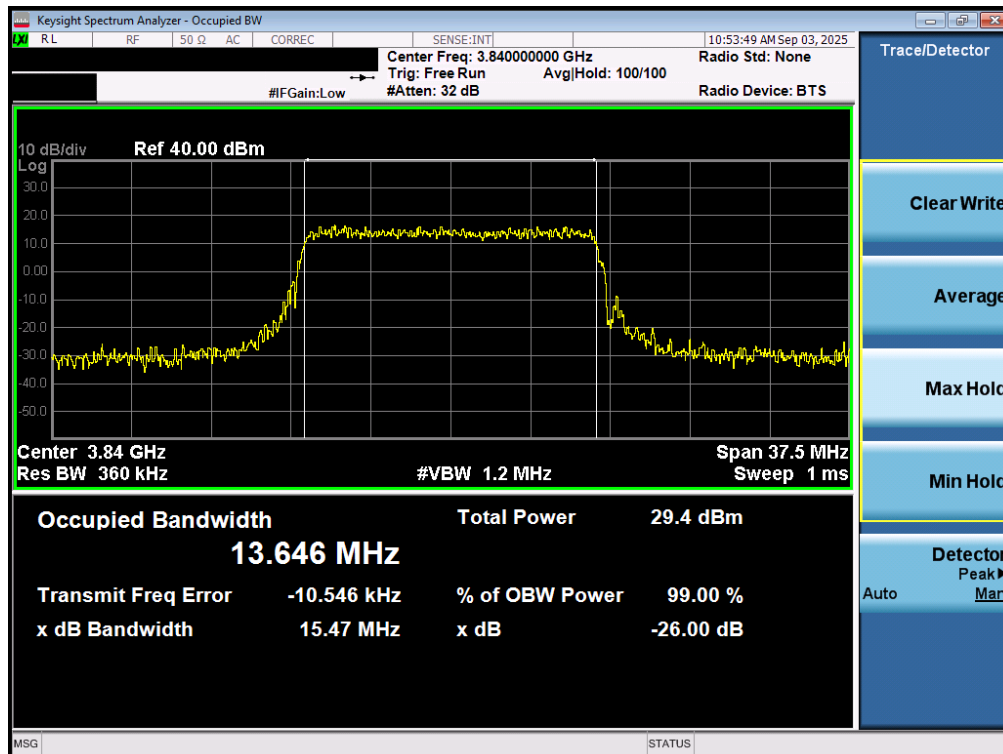


Plot 7-144. Occupied Bandwidth Plot (NR Band n77 - 20MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 104 of 180

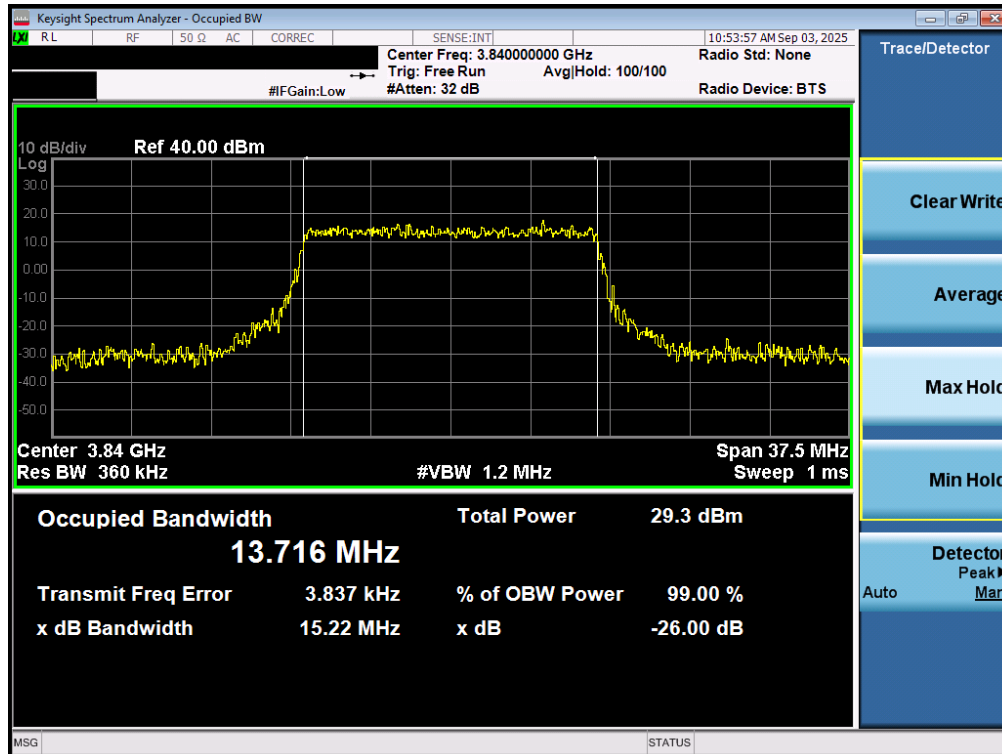


Plot 7-145. Occupied Bandwidth Plot (NR Band n77 - 15MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

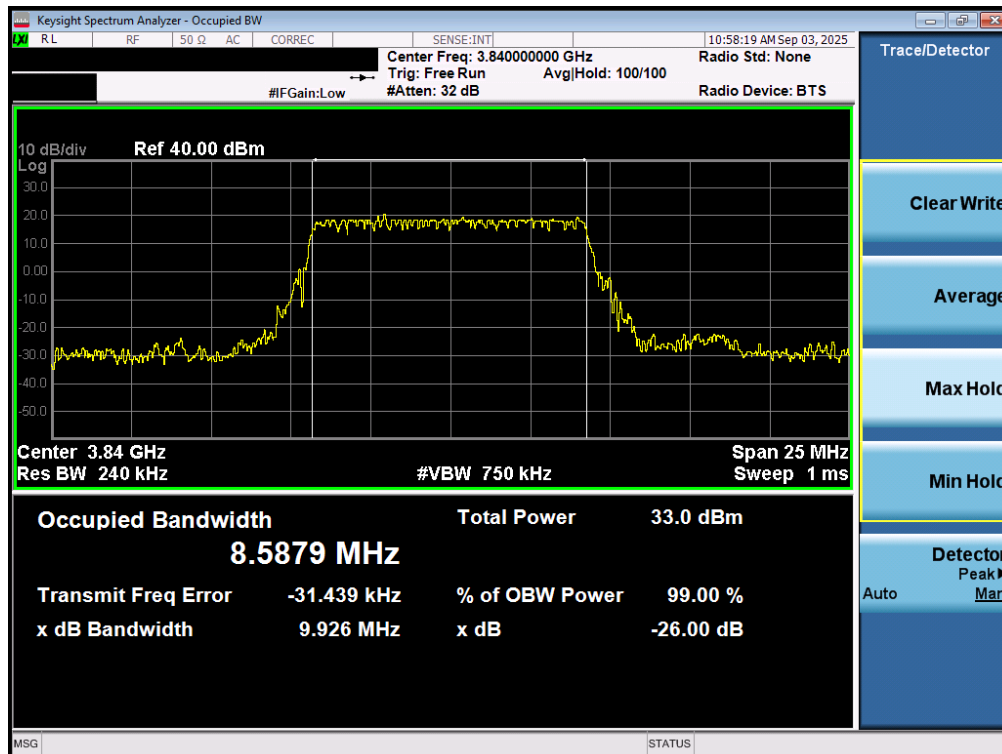


Plot 7-146. Occupied Bandwidth Plot (NR Band n77 - 15MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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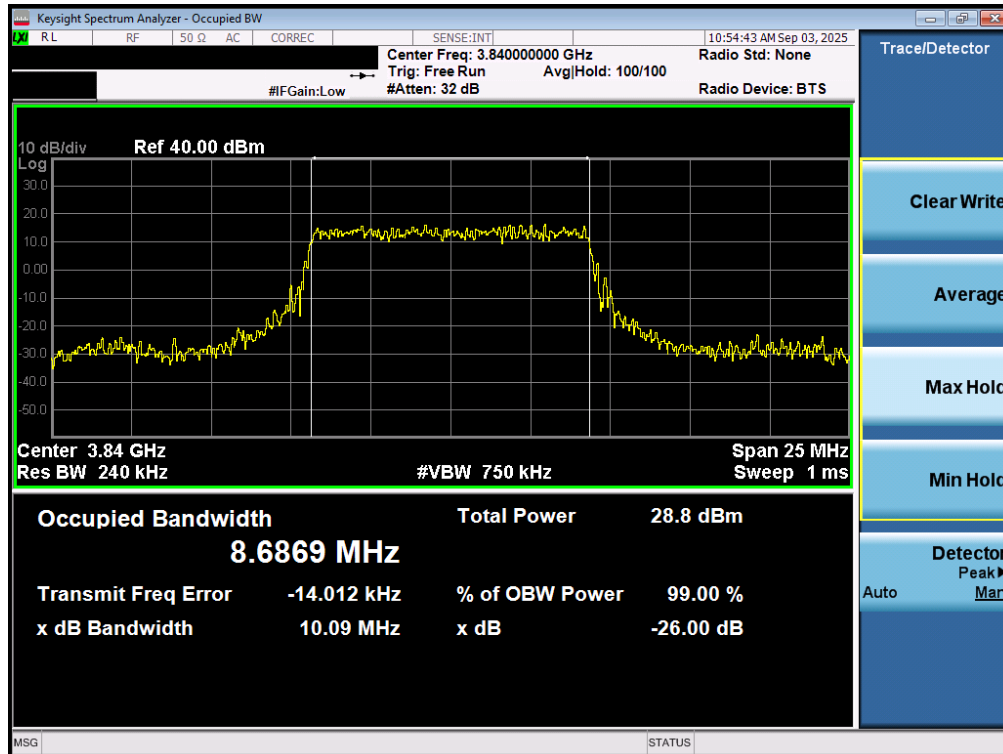


Plot 7-147. Occupied Bandwidth Plot (NR Band n77 - 15MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

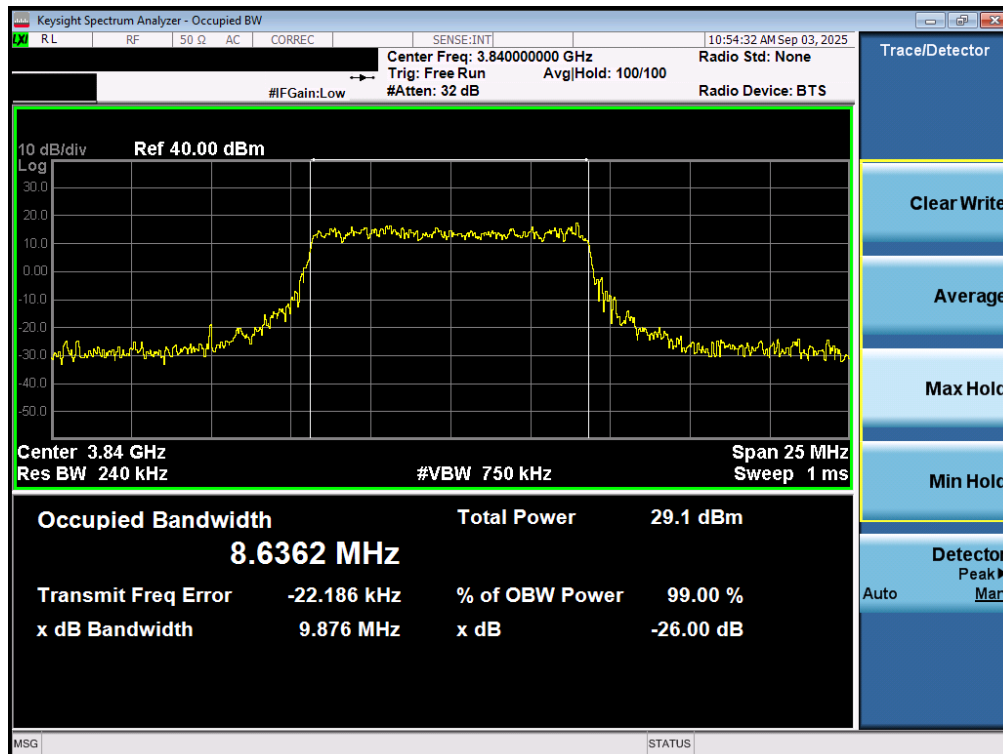


Plot 7-148. Occupied Bandwidth Plot (NR Band n77 - 10MHz $\pi/2$ BPSK - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-149. Occupied Bandwidth Plot (NR Band n77 - 10MHz QPSK - Full RB - Ant1 - C-Band - UL-MIMO)



Plot 7-150. Occupied Bandwidth Plot (NR Band n77 - 10MHz 16-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier 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 10th 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 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 operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any spurious emission is -13dBm/MHz.

Test Procedure Used

ANSI C63.26:2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to the tenth harmonic of the highest transmit 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.

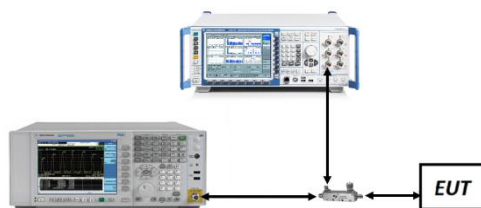


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27.53(l), Part 27.53(n), compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
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.

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-37.72	-13	-24.72
		Mid	3550.0 - 20000.0	-31.58	-13	-18.58
		Mid	20000.0 - 40000.0	-41.72	-13	-28.72

Table 7-20. Conducted Spurious Results – n77 – Ant1 – DoD Band – Main

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-33.11	-13	-20.11
		Low	3980.0 - 20000.0	-30.41	-13	-17.41
		Low	20000.0 - 40000.0	-41.09	-13	-28.09
		Mid	30.0 - 3700.0	-37.93	-13	-24.93
		Mid	3980.0 - 20000.0	-30.82	-13	-17.82
		Mid	20000.0 - 40000.0	-41.26	-13	-28.26
		High	30.0 - 3700.0	-38.7	-13	-25.70
		High	3980.0 - 20000.0	-31.17	-13	-18.17
		High	20000.0 - 40000.0	-41.74	-13	-28.74

Table 7-21. Conducted Spurious Results – n77 – Ant1 – C-Band – Main

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-37.89	-13	-24.89
		Mid	3550.0 - 20000.0	-31.08	-13	-18.08
		Mid	20000.0 - 40000.0	-40.88	-13	-27.88

Table 7-22. Conducted Spurious Results – n77 – Ant1 – DoD Band – UL-MIMO

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-38.59	-13	-25.59
		Low	3980.0 - 20000.0	-31.63	-13	-18.63
		Low	20000.0 - 40000.0	-42.13	-13	-29.12
		Mid	30.0 - 3700.0	-38.18	-13	-25.18
		Mid	3980.0 - 20000.0	-31.53	-13	-18.53
		Mid	20000.0 - 40000.0	-41.47	-13	-28.47
		High	30.0 - 3700.0	-38.72	-13	-25.72
		High	3980.0 - 20000.0	-30.91	-13	-17.91
		High	20000.0 - 40000.0	-41.44	-13	-28.44

Table 7-23. Conducted Spurious Results – n77 – Ant1 – C- Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-35.8	-13	-22.80
		Mid	3550.0 - 20000.0	-30.65	-13	-17.65
		Mid	20000.0 - 40000.0	-42.47	-13	-29.47

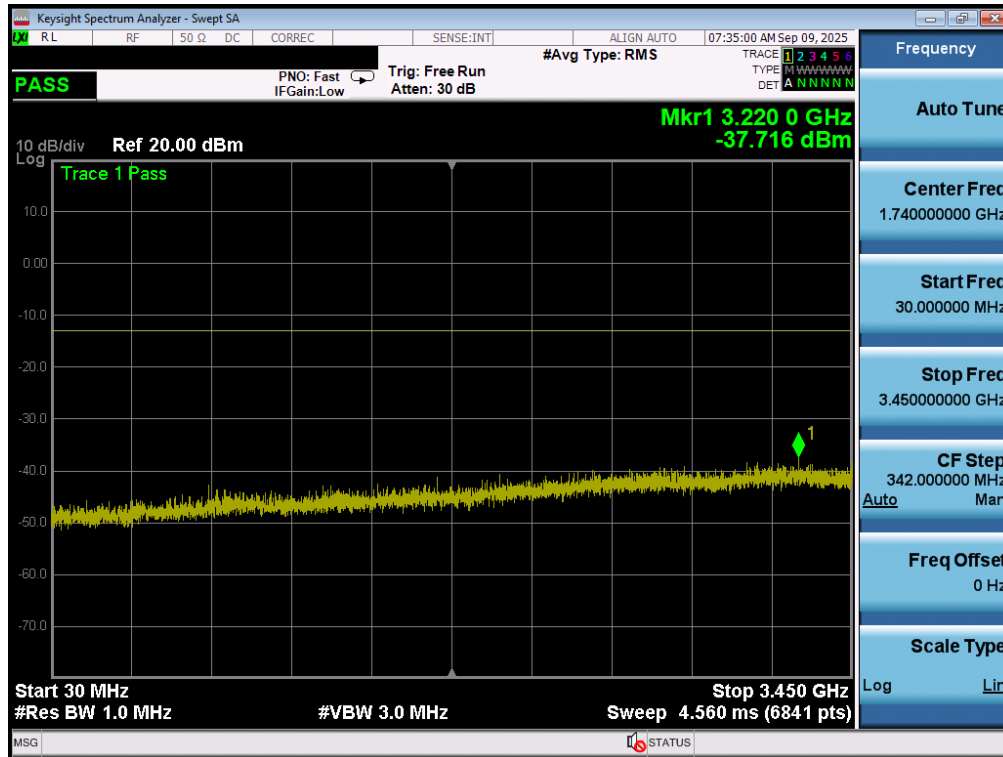
Table 7-24. Conducted Spurious Results – n77 – Ant2 – DoD Band – UL-MIMO

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-41.68	-13	-28.68
		Low	3980.0 - 20000.0	-33.06	-13	-20.06
		Low	20000.0 - 40000.0	-41.77	-13	-28.77
		Mid	30.0 - 3700.0	-41.99	-13	-28.99
		Mid	3980.0 - 20000.0	-33.34	-13	-20.34
		Mid	20000.0 - 40000.0	-41.45	-13	-28.45
		High	30.0 - 3700.0	-41.16	-13	-28.16
		High	3980.0 - 20000.0	-24.29	-13	-11.29
		High	20000.0 - 40000.0	-42.54	-13	-29.54

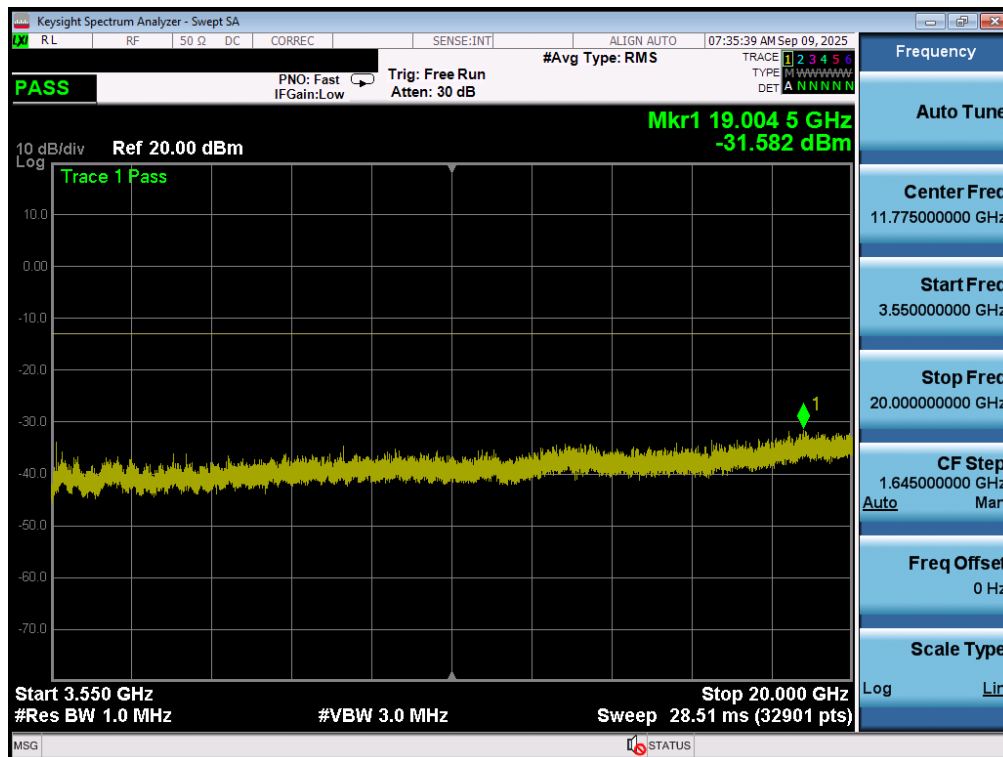
Table 7-25. Conducted Spurious Results – n77 – Ant2 – C- Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 110 of 180

NR Band n77 – Ant1 – DoD Band – Main

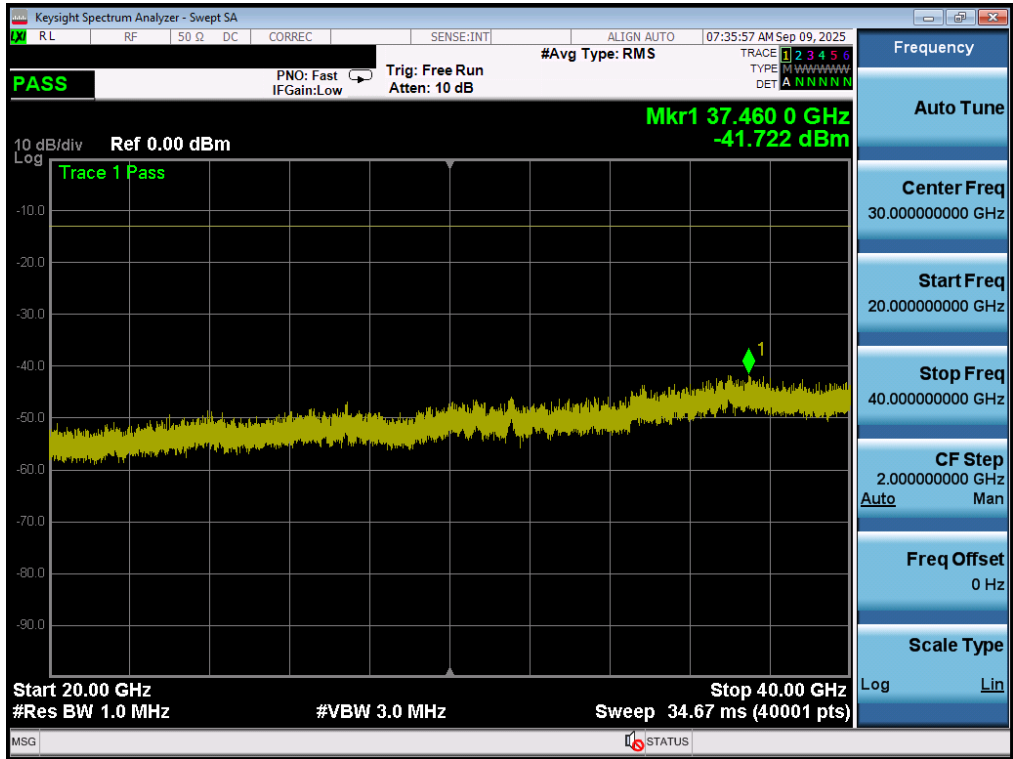


Plot 7-151. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - DoD Band - Main)



Plot 7-152. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - DoD Band - Main)

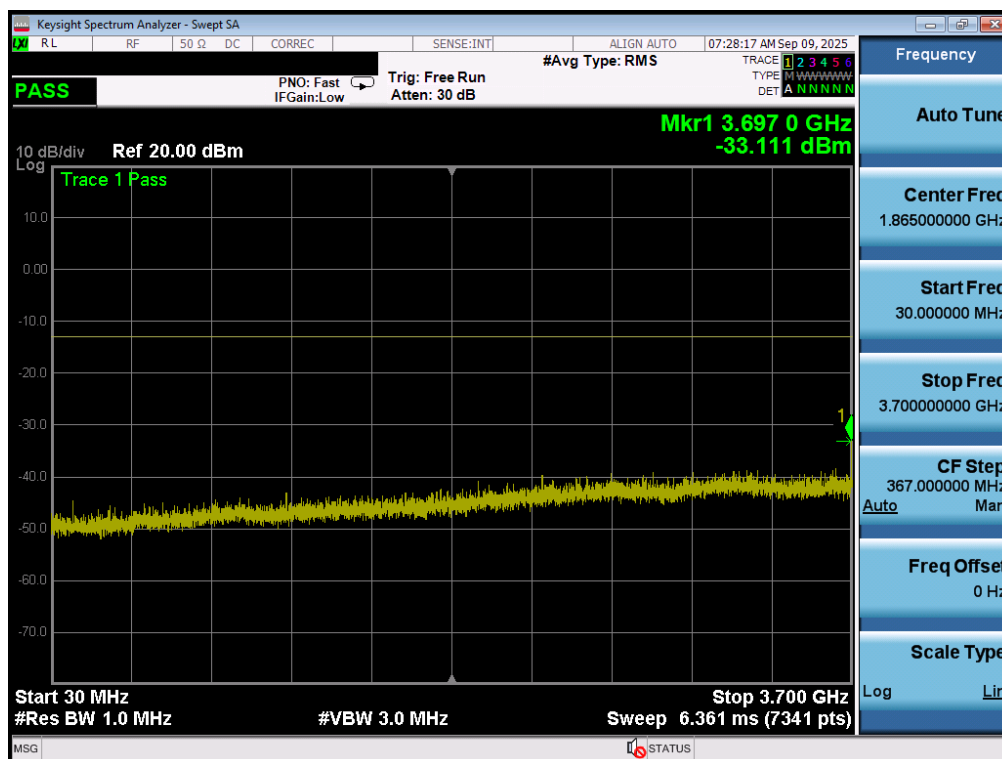
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 111 of 180



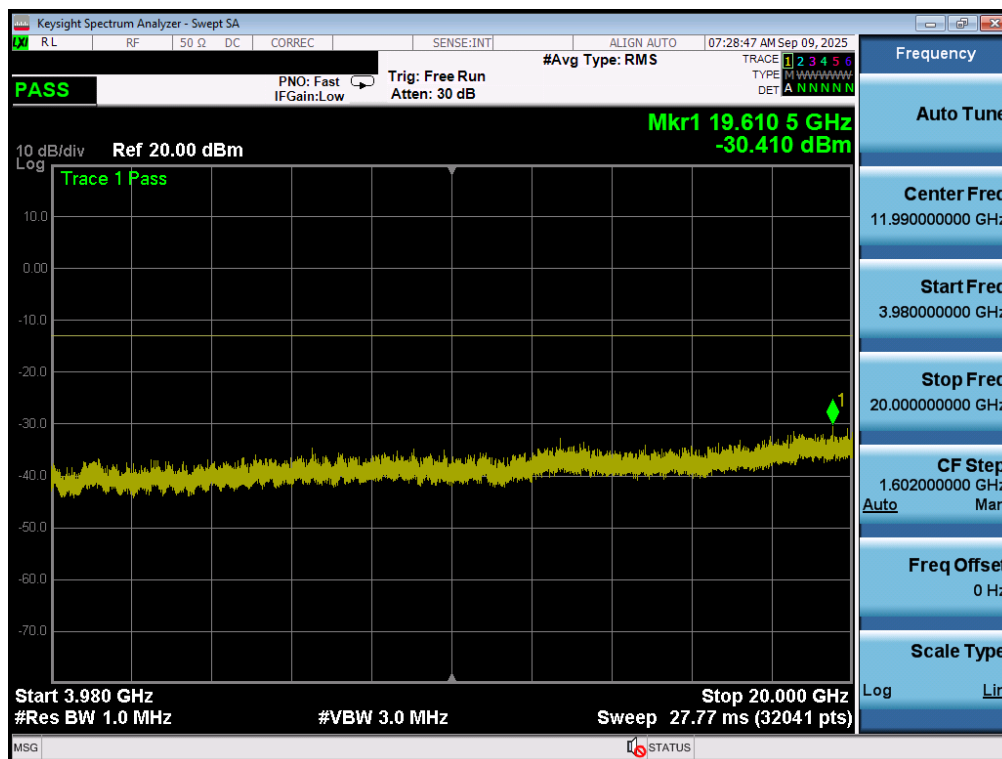
Plot 7-153. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant1 – C-Band – Main

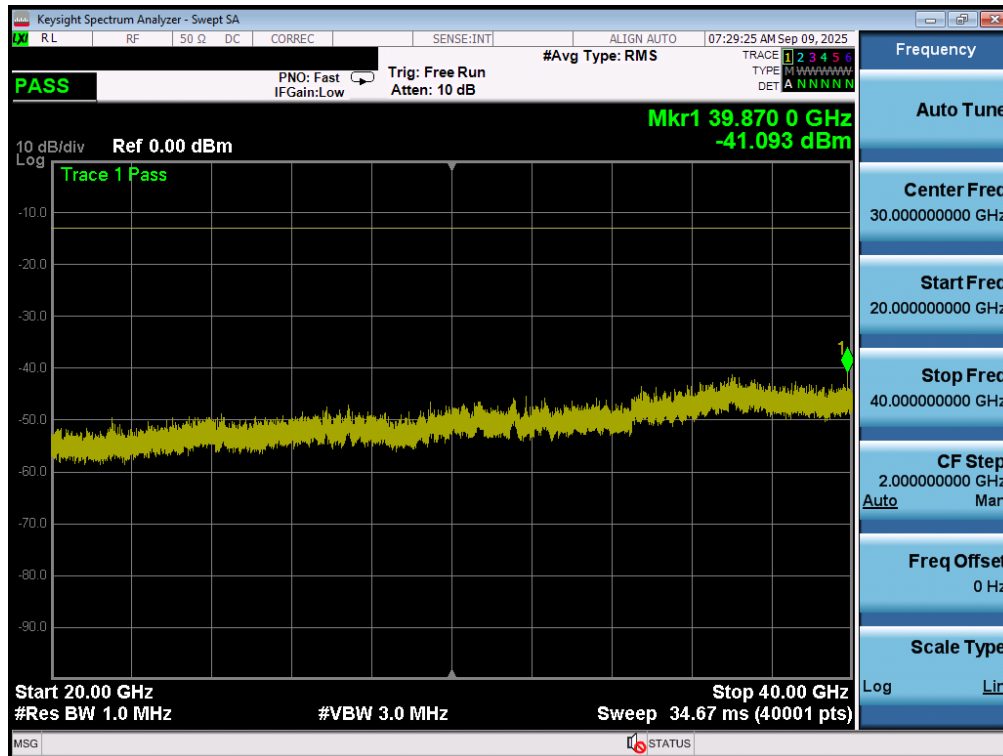


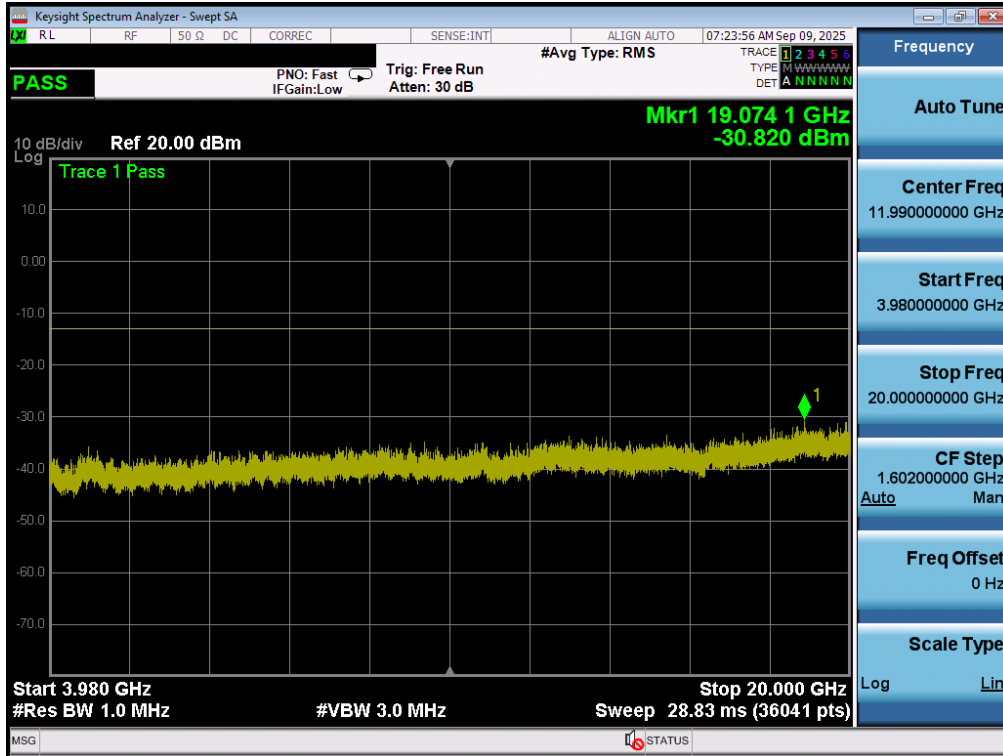
Plot 7-154. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant1 - C-Band - Main)



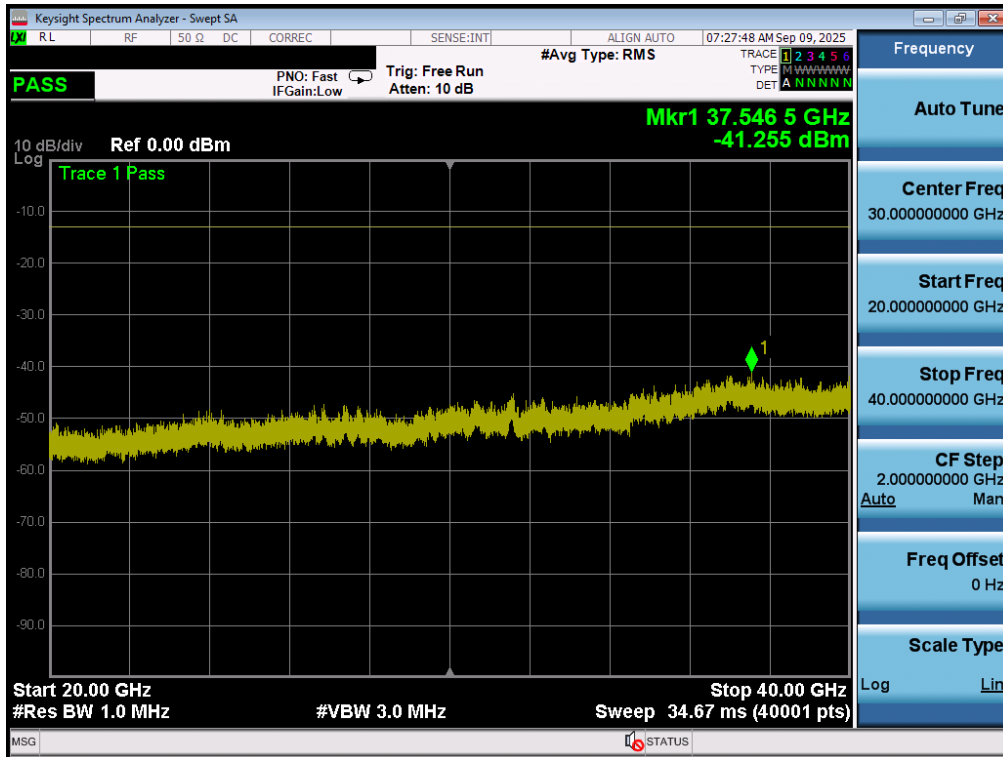
Plot 7-155. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 113 of 180



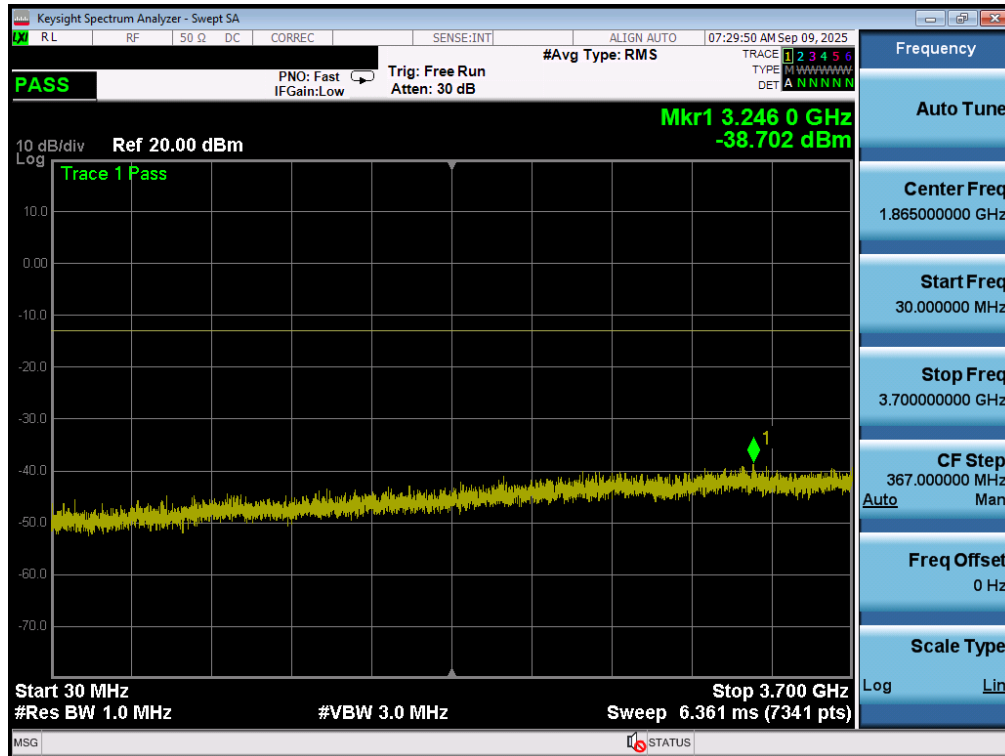


Plot 7-158. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - C-Band - Main)

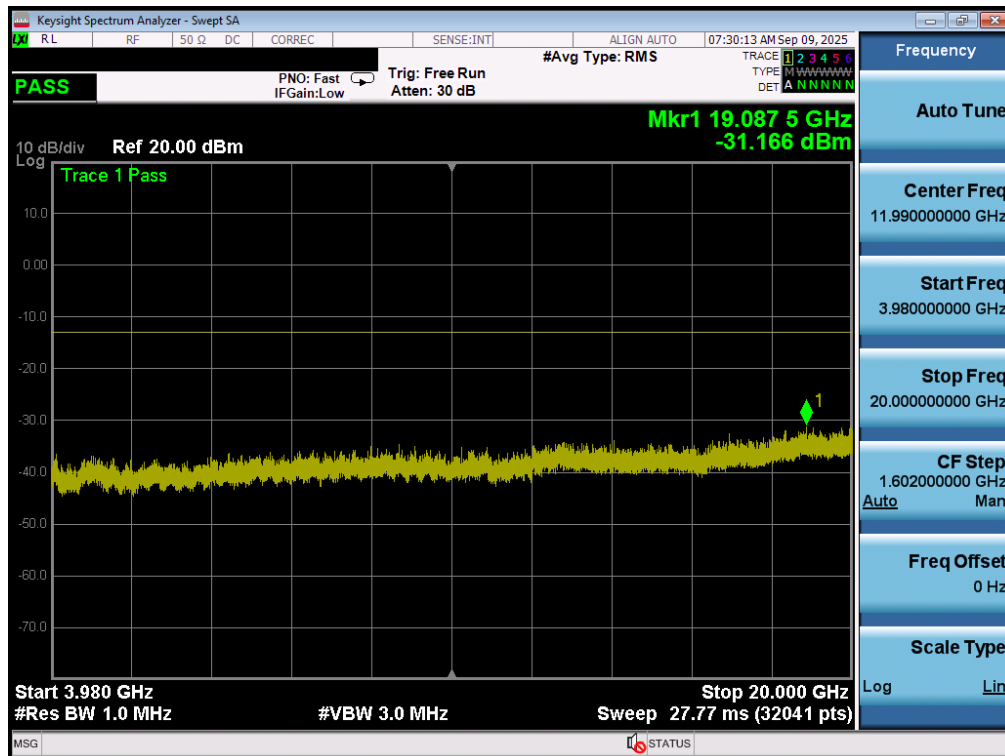


Plot 7-159. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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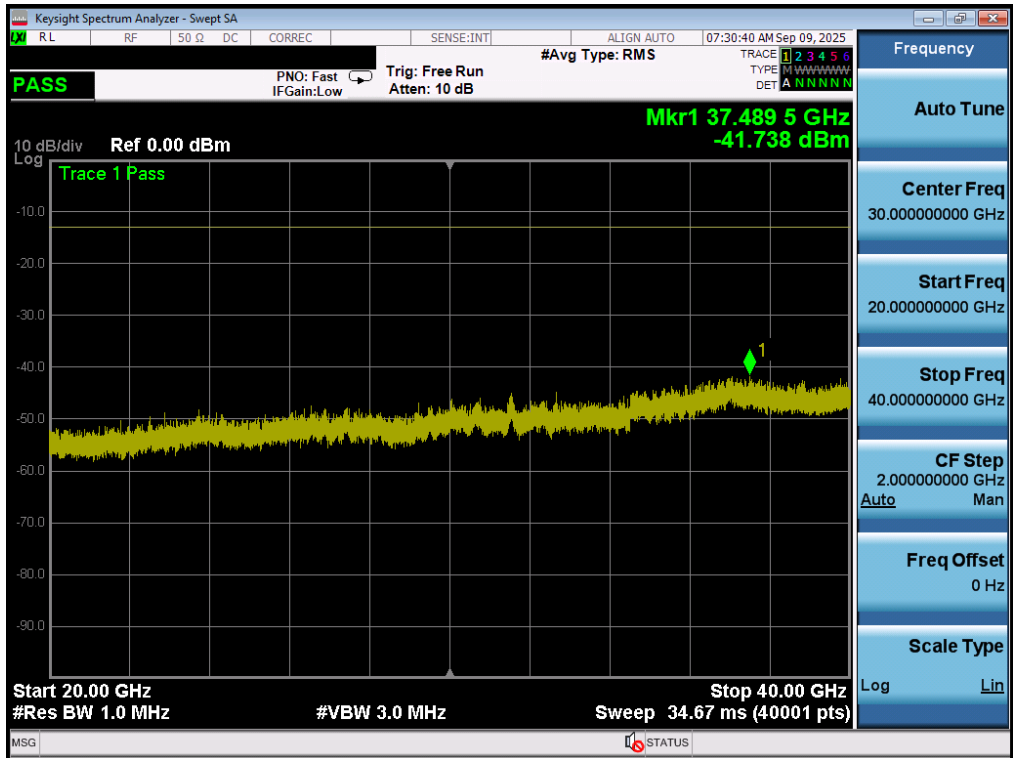


Plot 7-160. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1 - C-Band - Main)



Plot 7-161. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1 - C-Band - Main)

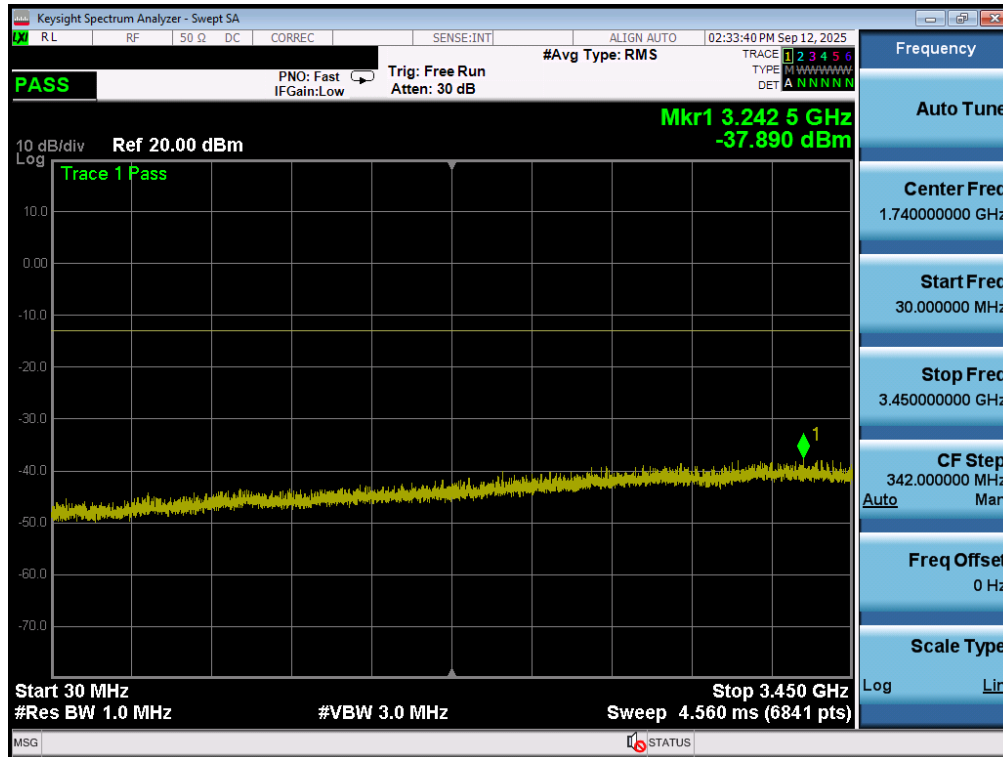
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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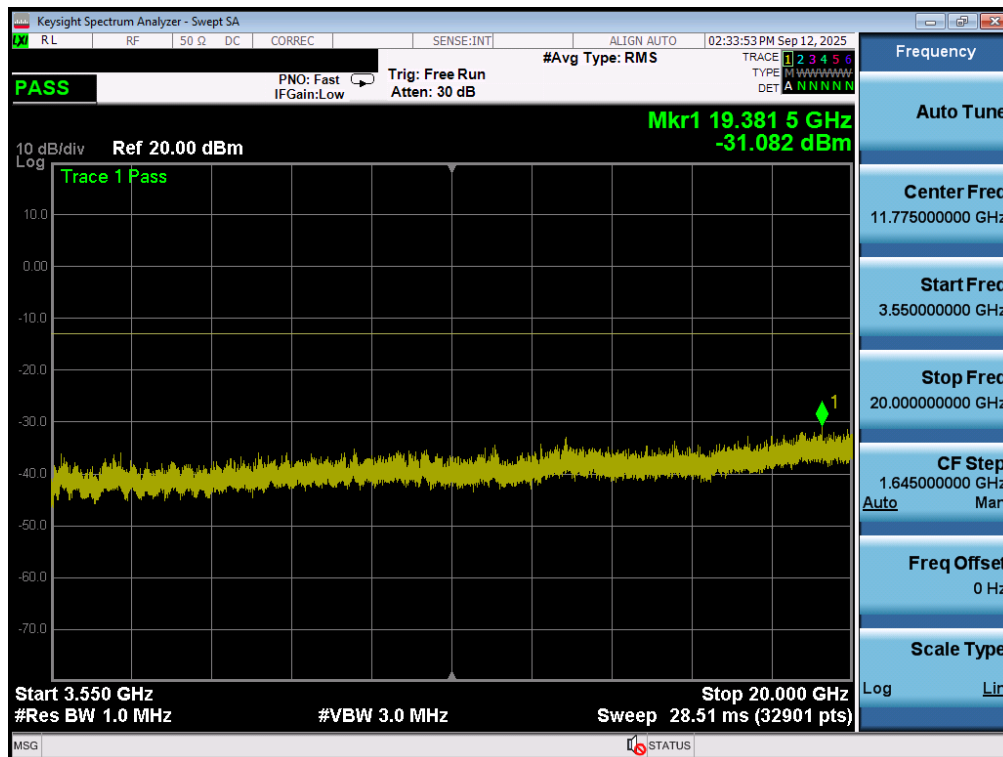
Plot 7-162. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1 - C-Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant1 – DoD Band – UL-MIMO

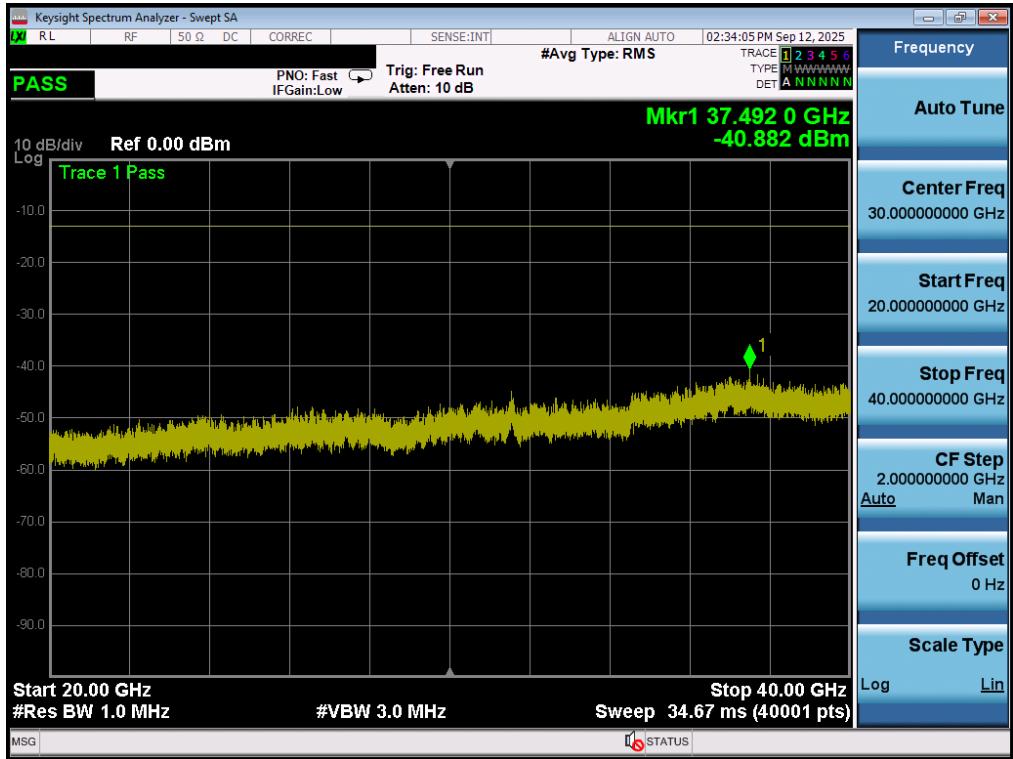


Plot 7-163. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - DoD Band – UL-MIMO)



Plot 7-164. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - DoD Band - UL-MIMO)

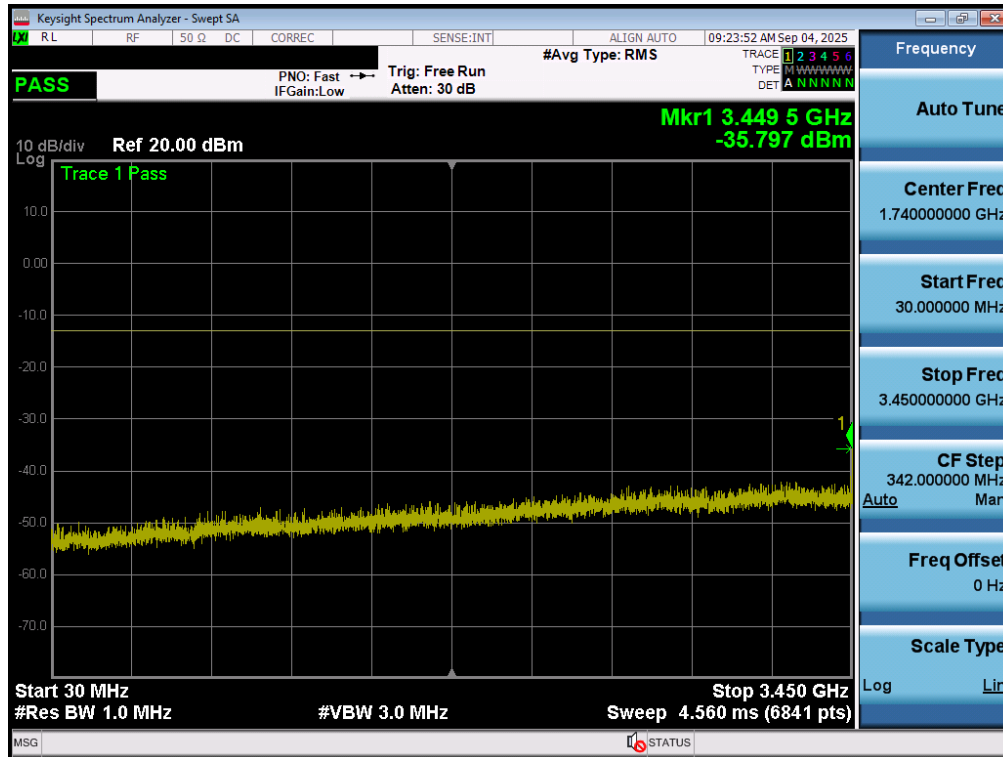
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 118 of 180



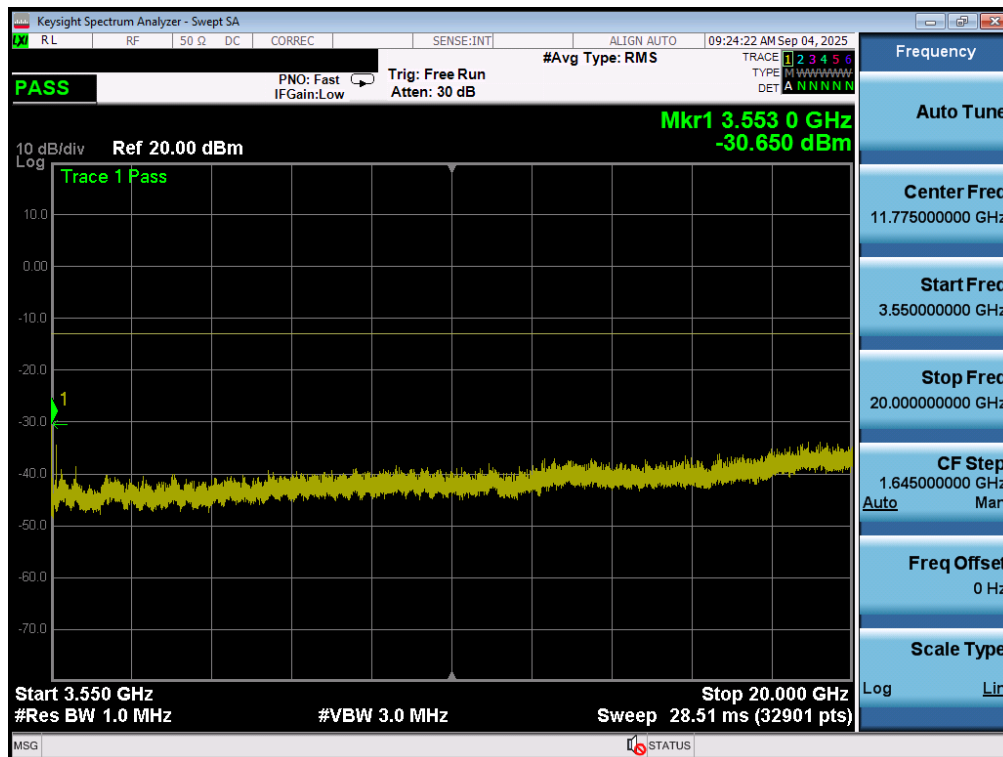
Plot 7-165. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 119 of 180

NR Band n77 – Ant2 – DoD Band – UL-MIMO

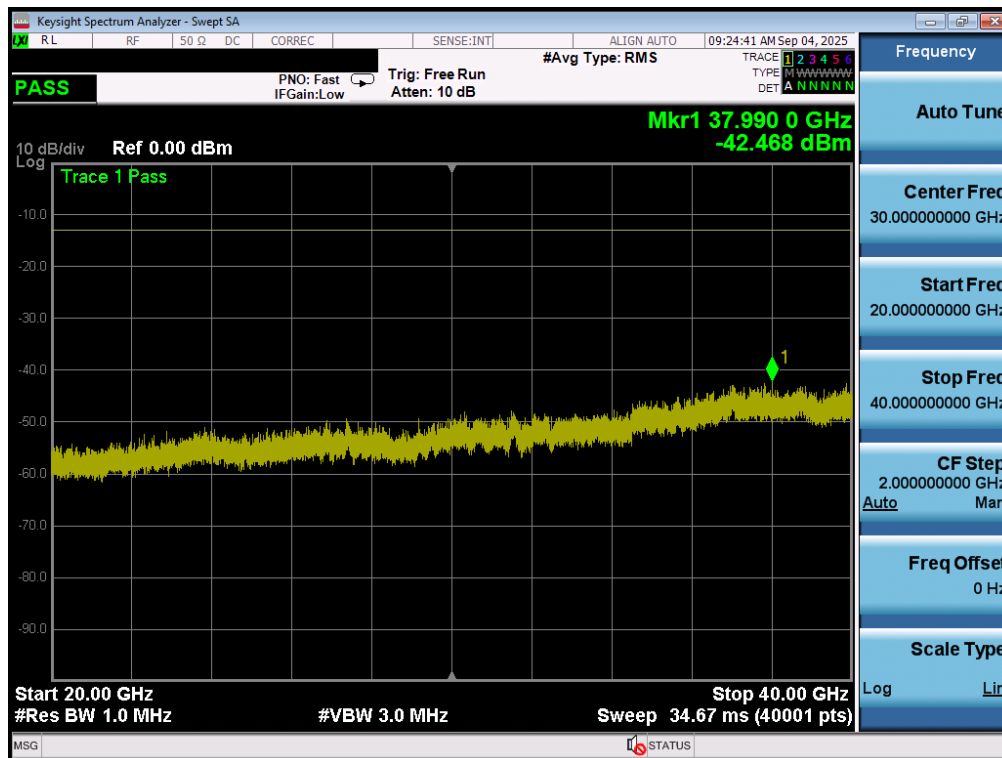


Plot 7-166. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2 - DoD Band - UL-MIMO)



Plot 7-167. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2 - DoD Band - UL-MIMO)

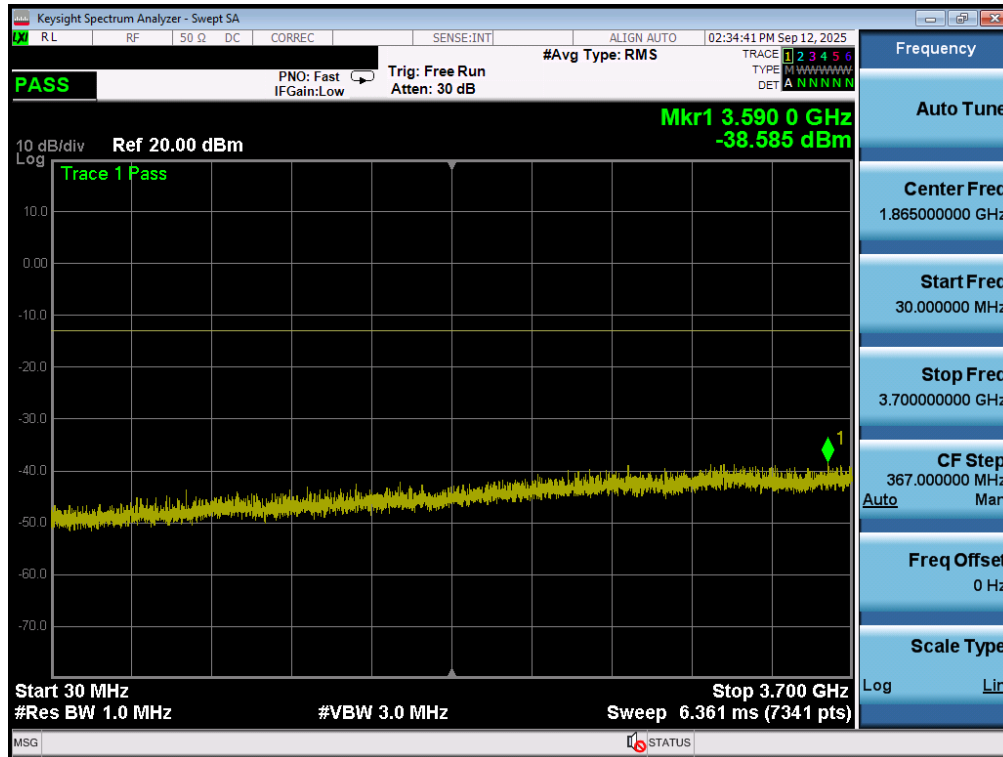
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 120 of 180



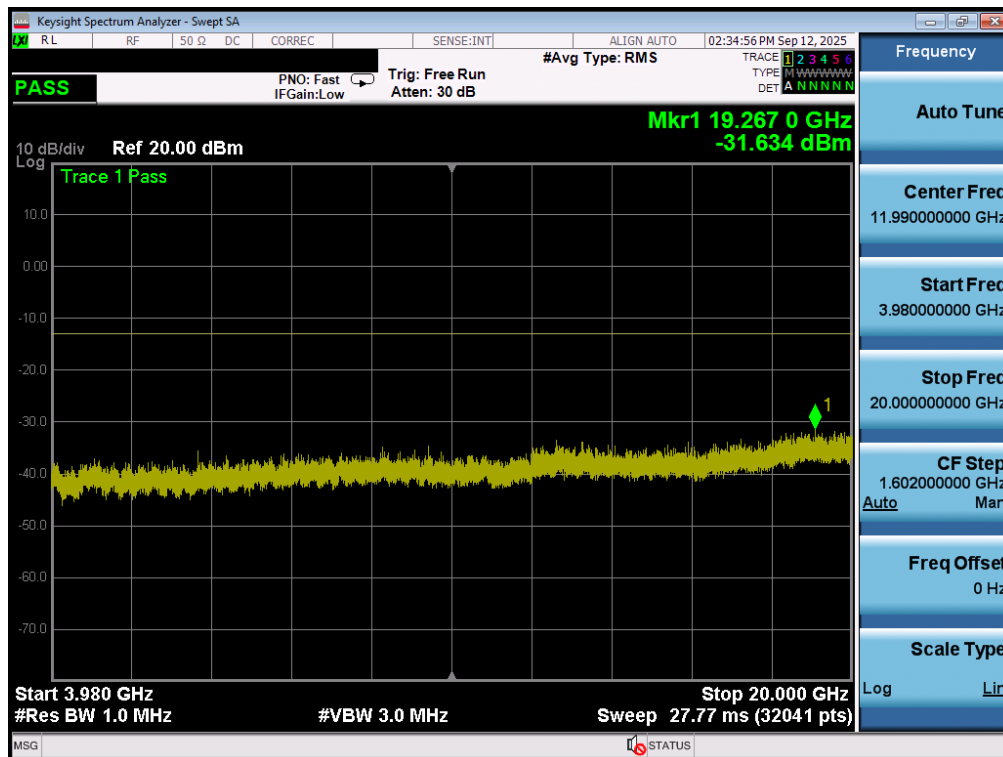
Plot 7-168. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2 - DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant1 – C-Band – UL-MIMO

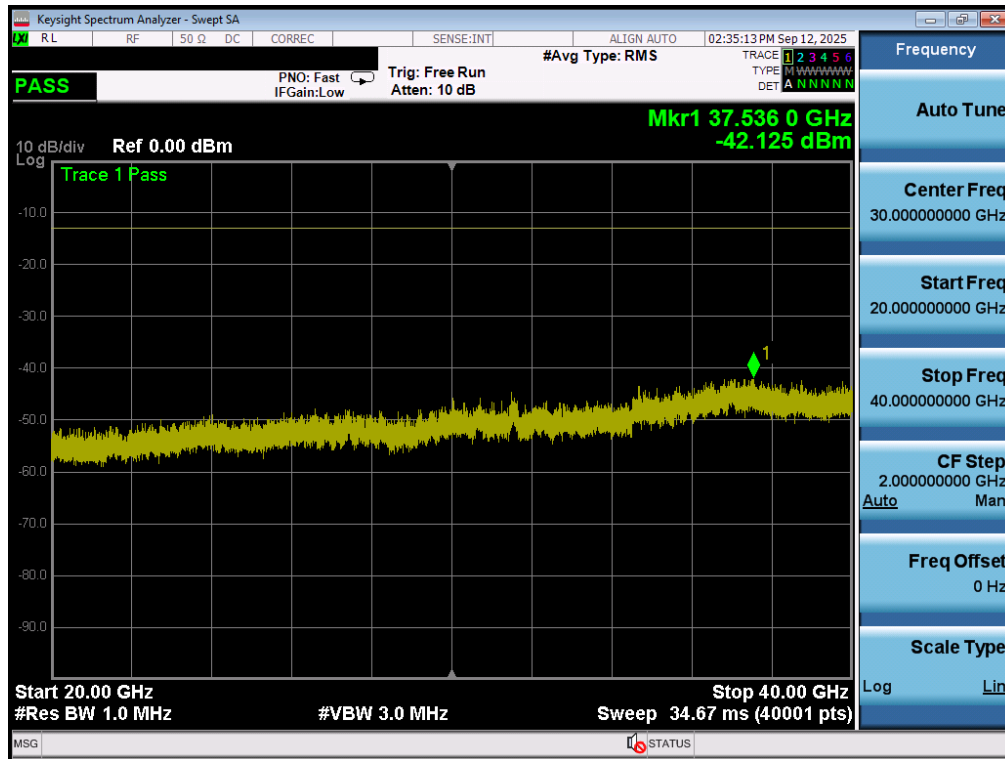


Plot 7-169. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant1 - C-Band - UL-MIMO)

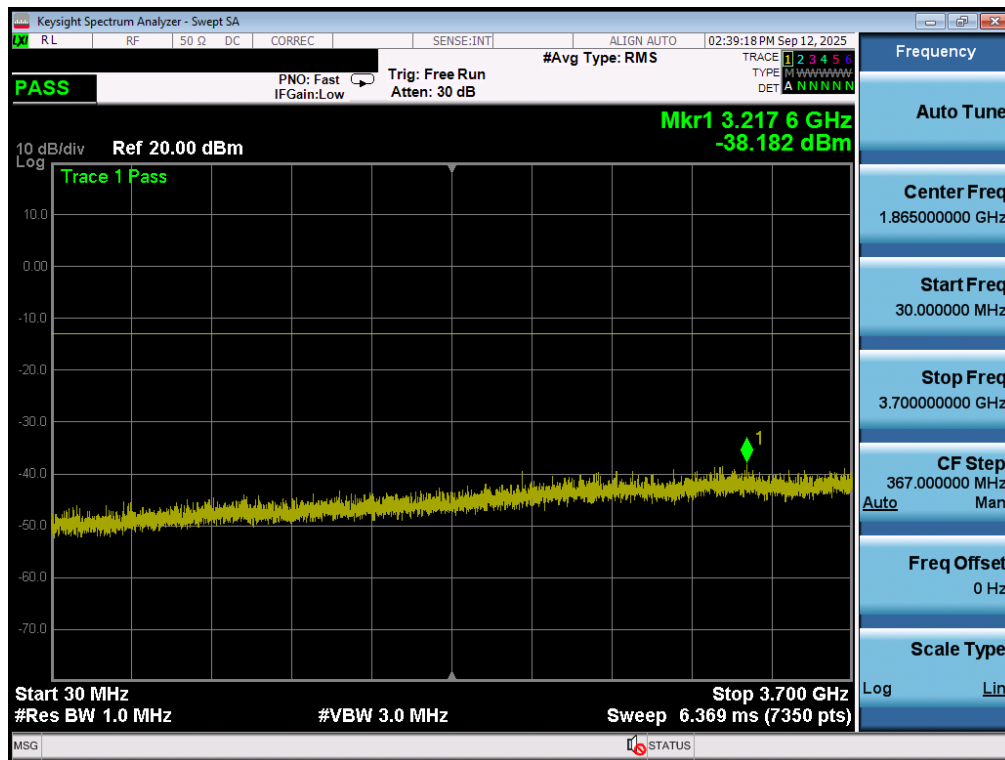


Plot 7-170. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 122 of 180

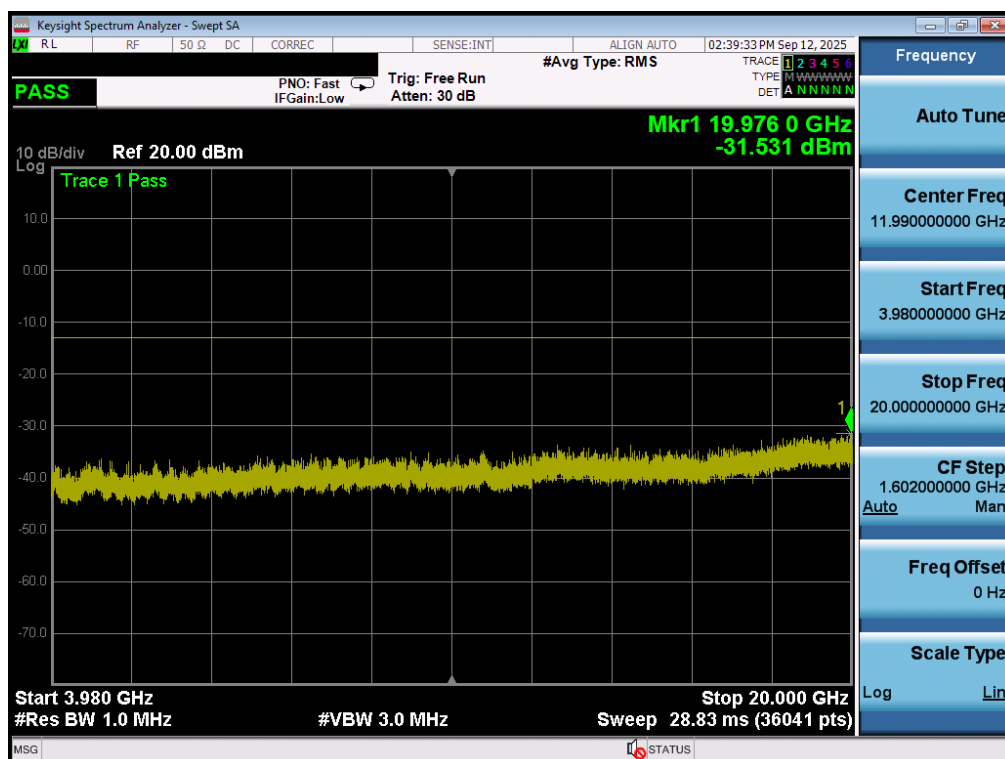


Plot 7-171. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant1 - C-Band - Main)

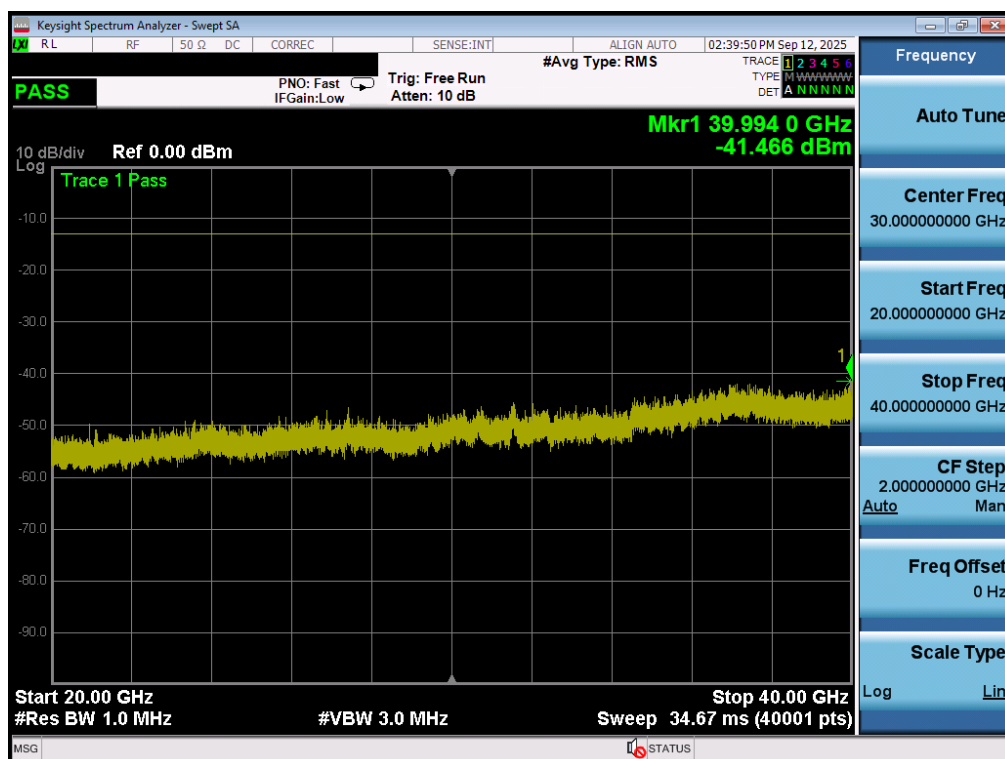


Plot 7-172. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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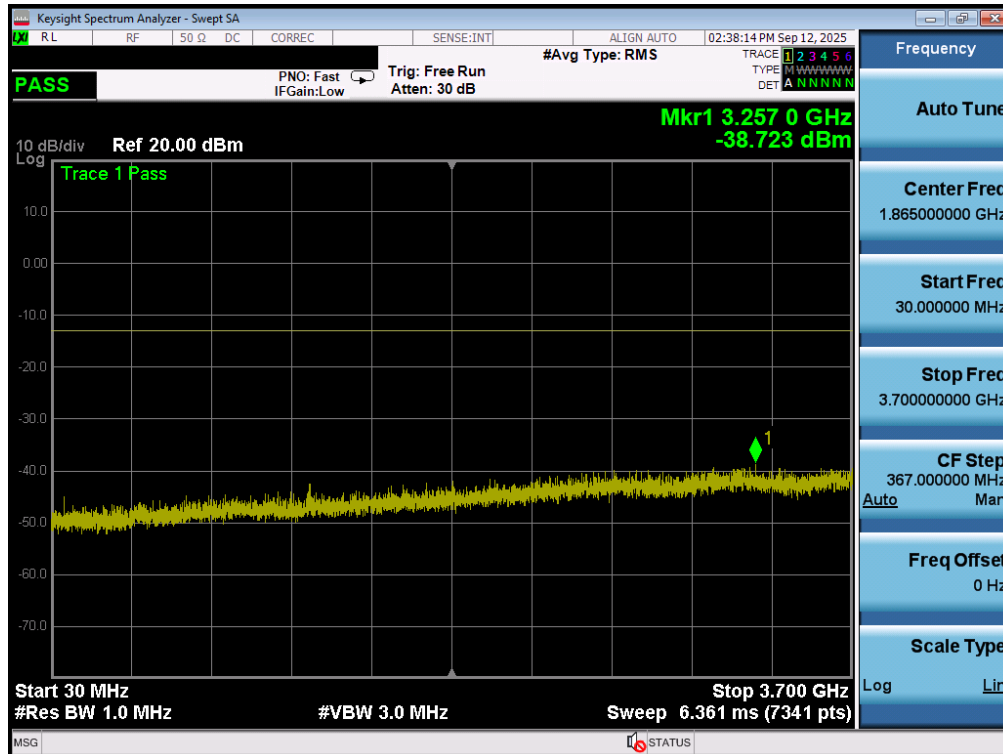


Plot 7-173. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - C-Band - UL-MIMO)

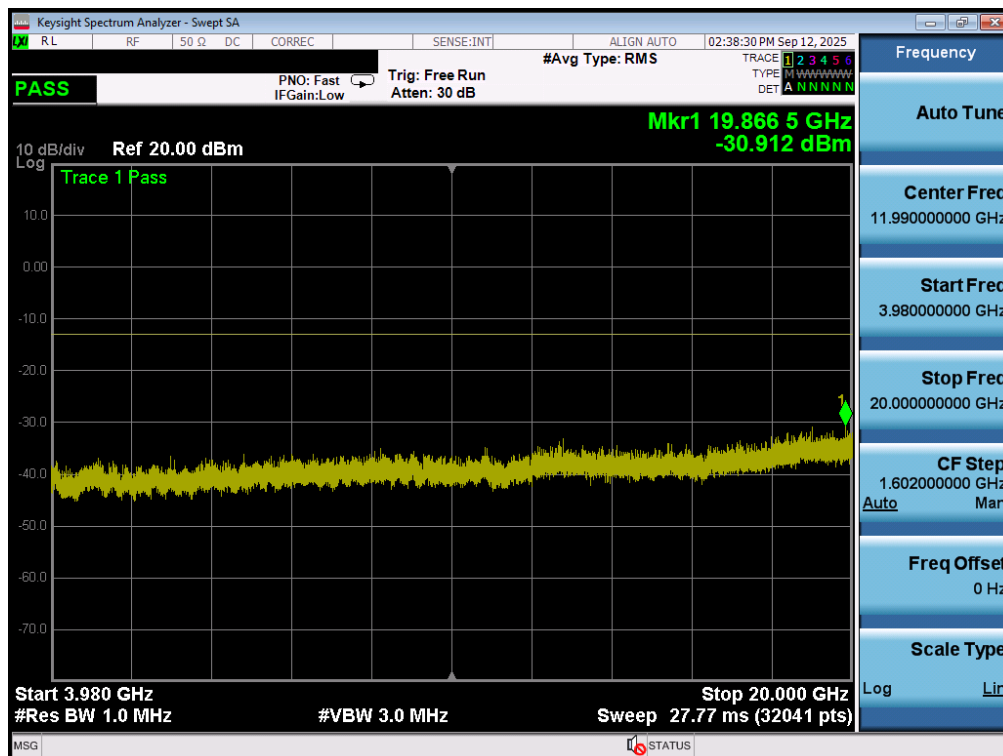


Plot 7-174. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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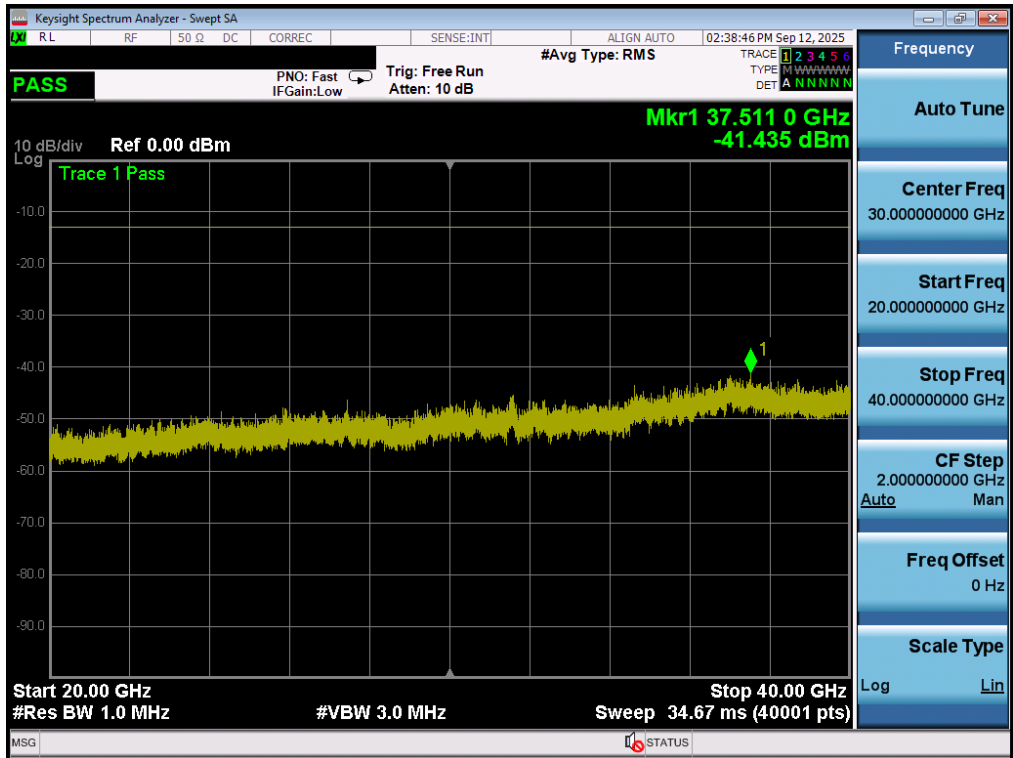


Plot 7-175. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1 - C-Band - UL-MIMO)



Plot 7-176. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1 - C-Band - UL-MIMO)

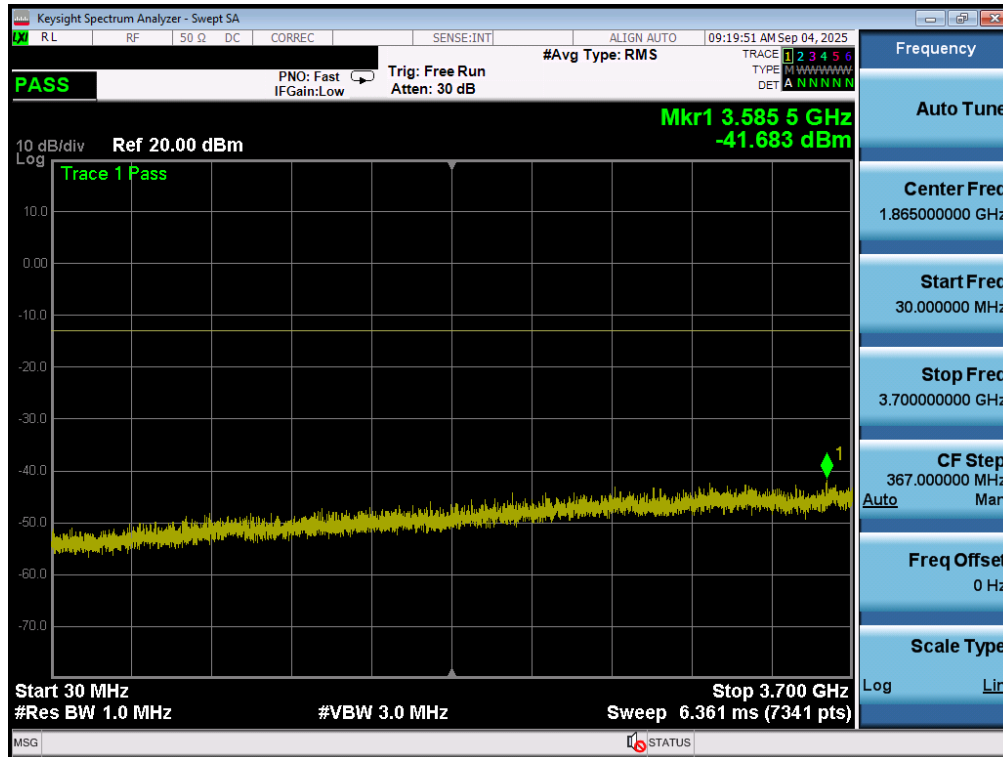
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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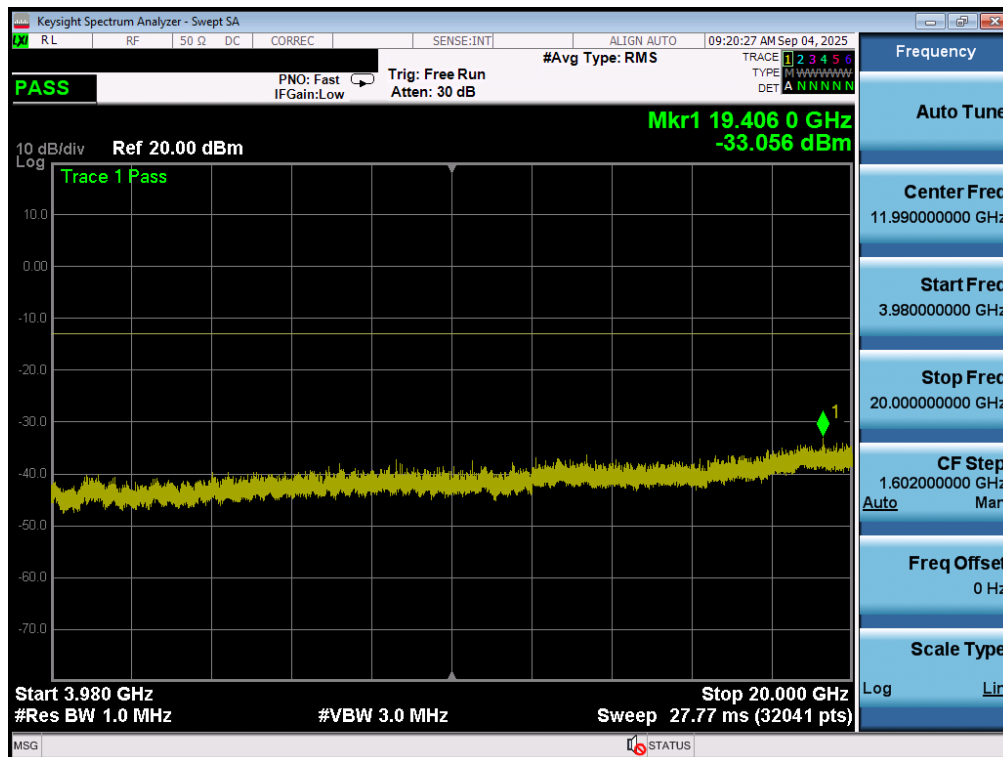
Plot 7-177. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant2 – C-Band – UL-MIMO

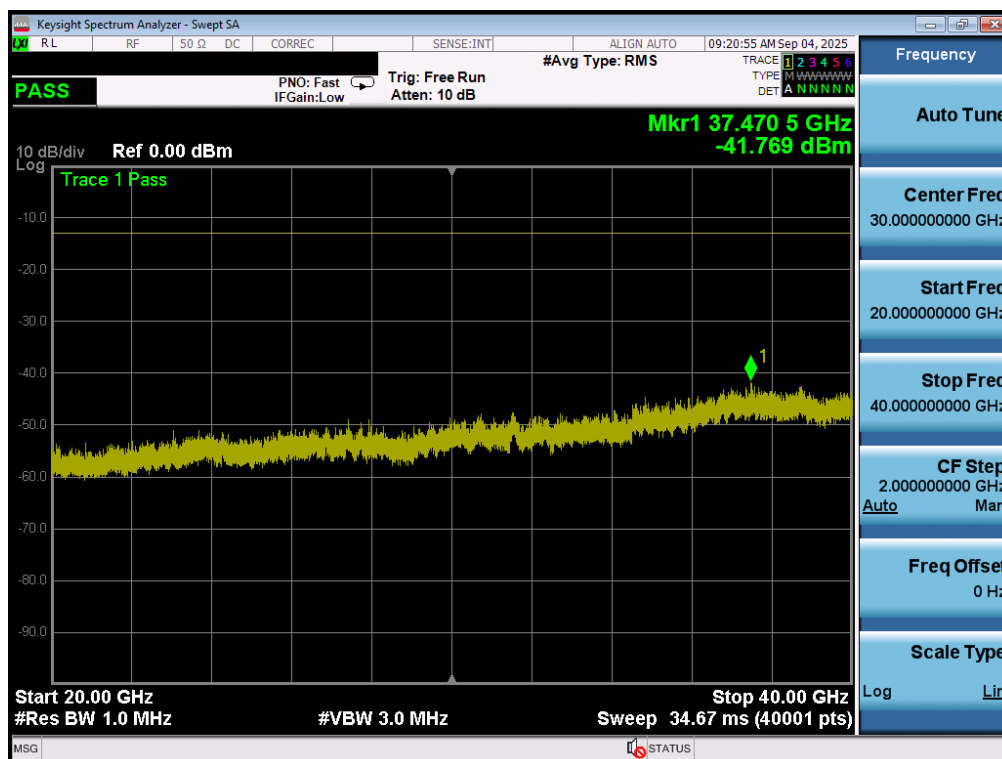


Plot 7-178. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2 - C-Band - UL-MIMO)

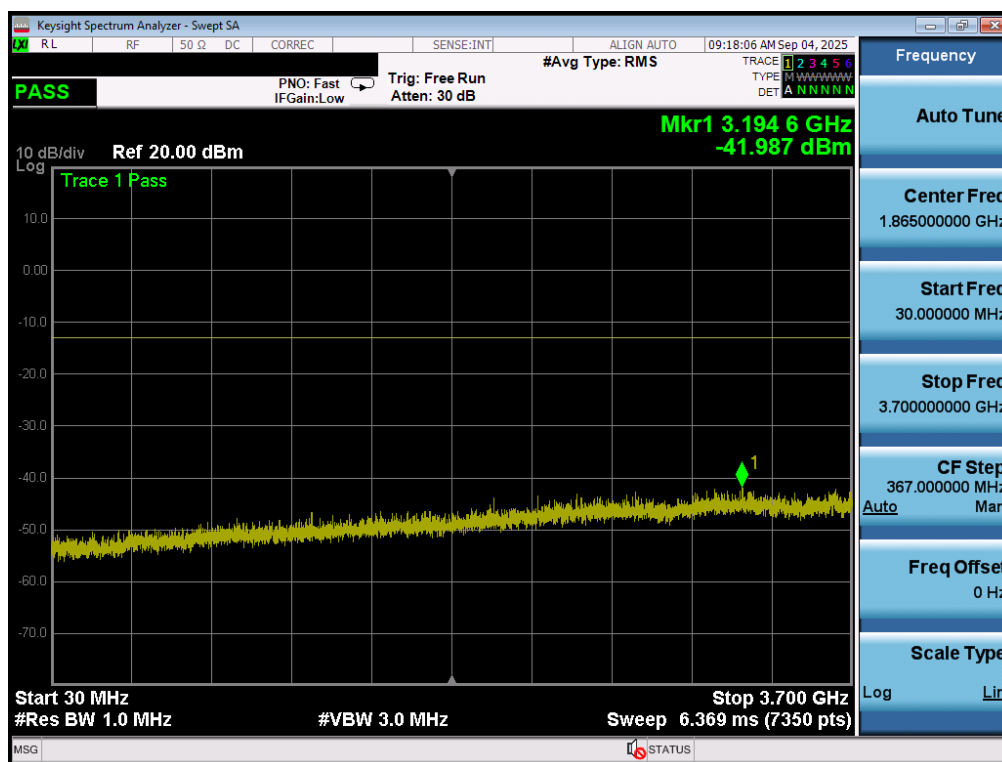


Plot 7-179. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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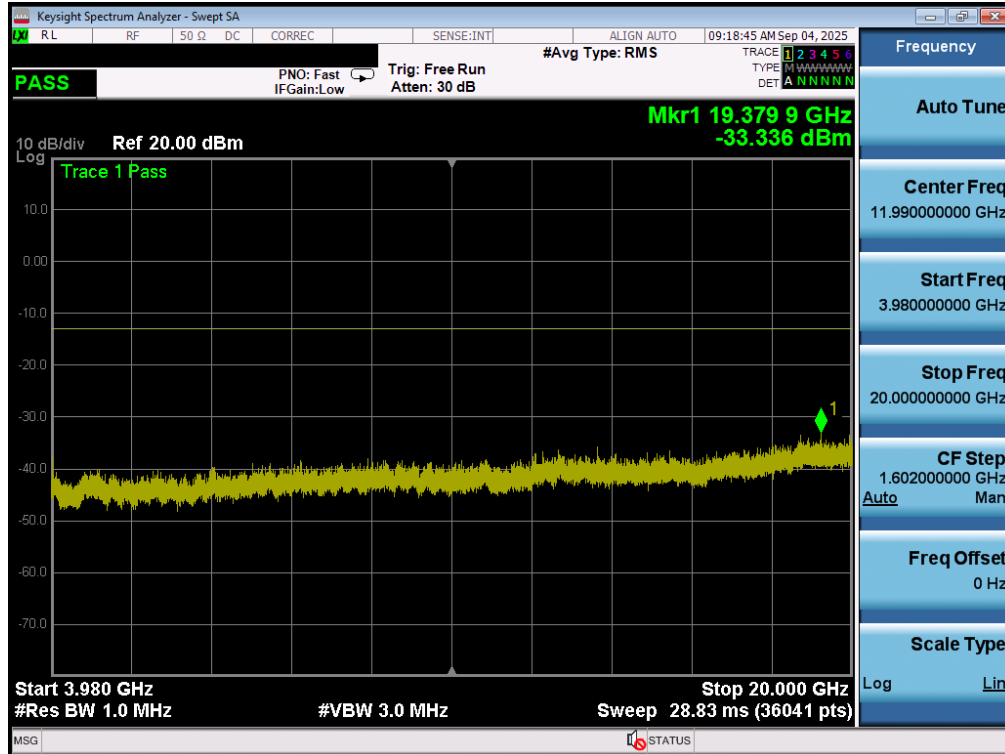


Plot 7-180. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant2 - C-Band - UL-MIMO)

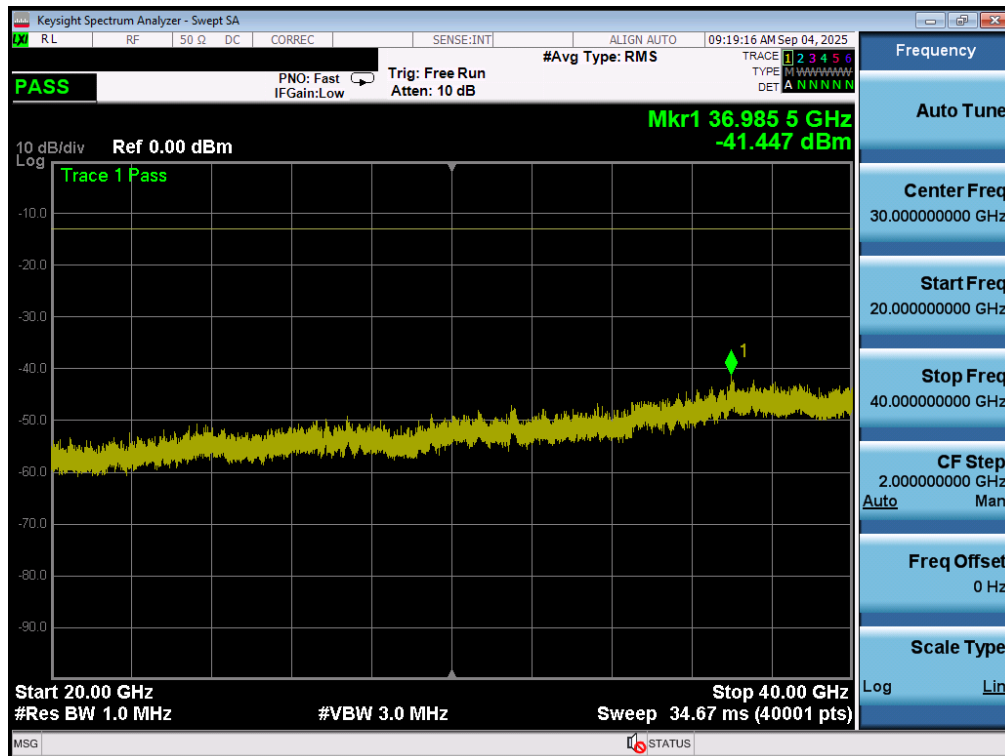


Plot 7-181. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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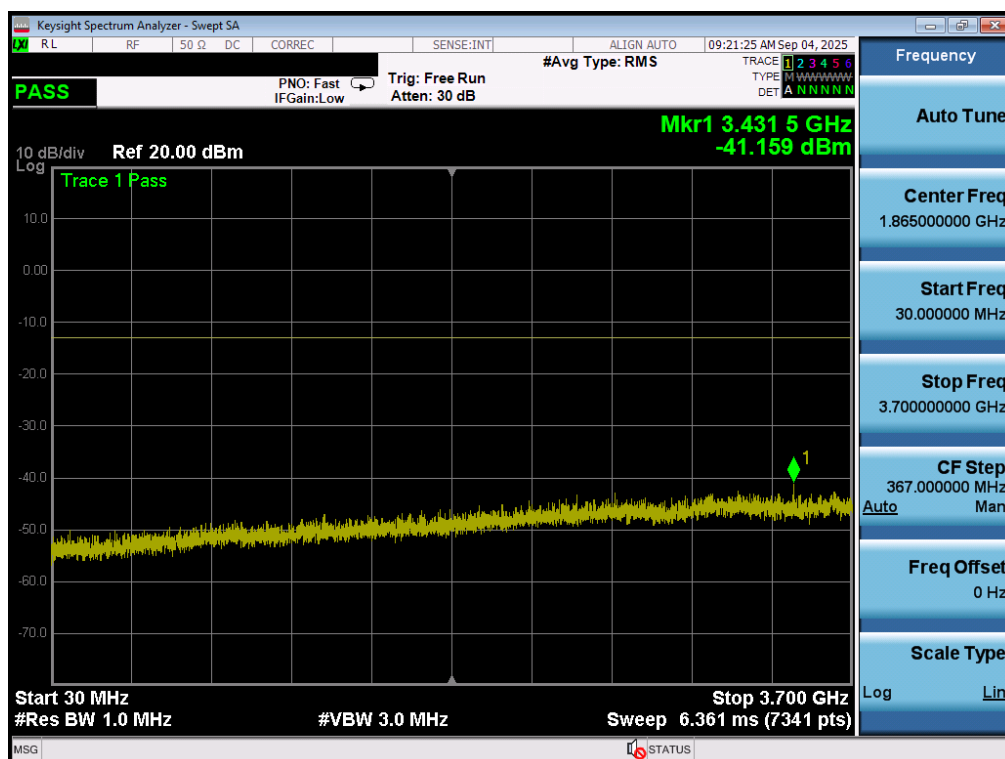


Plot 7-182. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2 - C-Band - UL-MIMO)

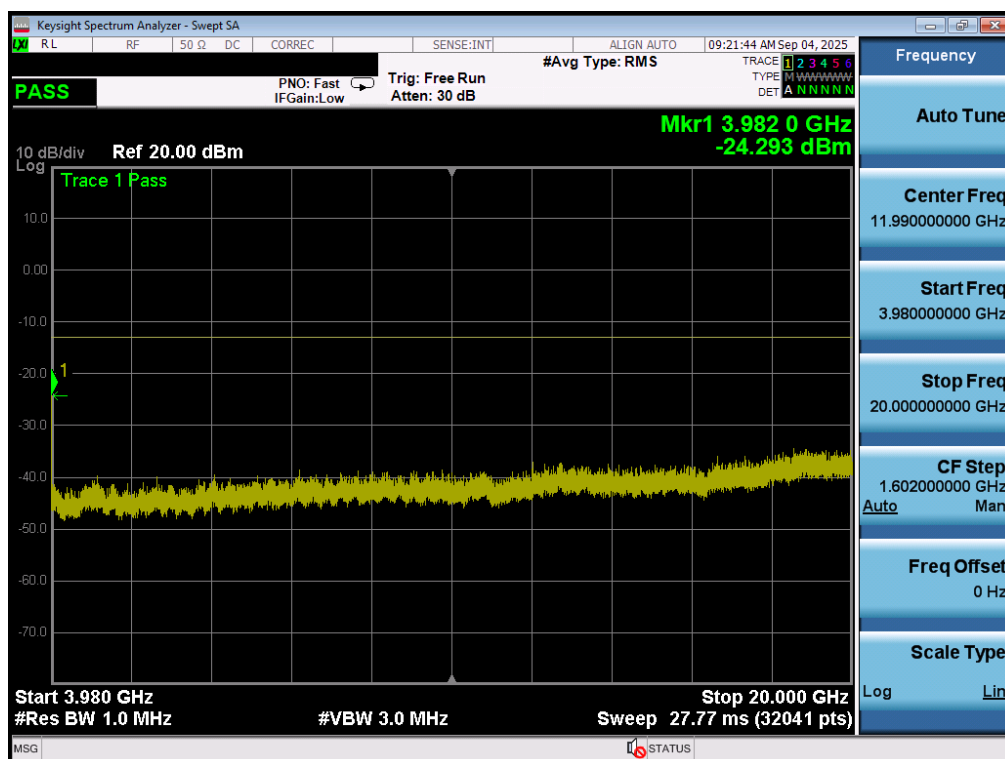


Plot 7-183. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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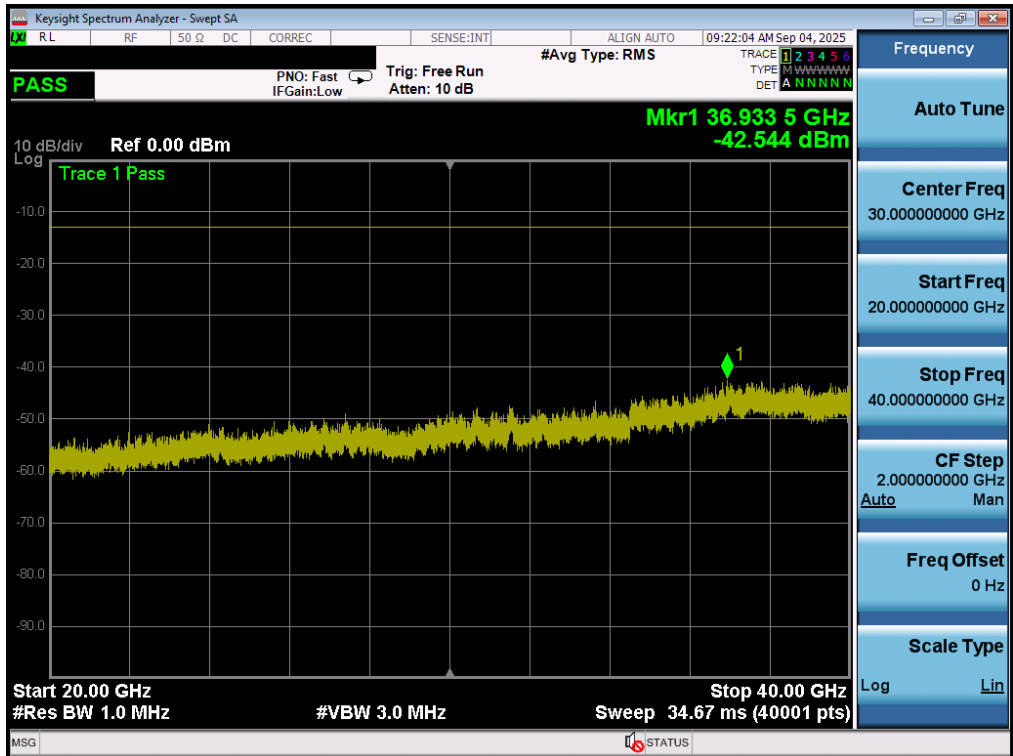


Plot 7-184. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2 - C-Band - UL-MIMO)



Plot 7-185. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-186. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant2 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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 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 operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/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 for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

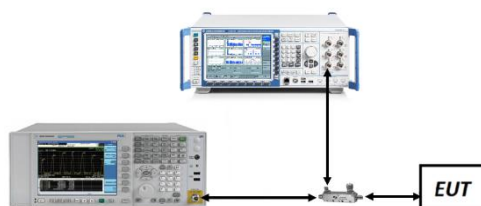


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

1. Per Part 27.53(l), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
2. Per Part 27.53(n), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
3. 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.
4. 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: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 133 of 180

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-33.48	-13	-20.48
		High	Band Edge	-30.28	-13	-17.28
	90MHz	Low	Band Edge	-36.04	-13	-23.04
		High	Band Edge	-34.24	-13	-21.24
	80MHz	Low	Band Edge	-34.60	-13	-21.60
		High	Band Edge	-32.61	-13	-19.61
	70MHz	Low	Band Edge	-34.60	-13	-21.60
		High	Band Edge	-33.73	-13	-20.73
	60MHz	Low	Band Edge	-32.43	-13	-19.43
		High	Band Edge	-32.20	-13	-19.20
	50MHz	Low	Band Edge	-31.51	-13	-18.51
		High	Band Edge	-28.58	-13	-15.58
	40MHz	Low	Band Edge	-29.85	-13	-16.85
		High	Band Edge	-30.22	-13	-17.22
	30MHz	Low	Band Edge	-28.49	-13	-15.49
		High	Band Edge	-28.88	-13	-15.88
	25MHz	Low	Band Edge	-28.83	-13	-15.83
		High	Band Edge	-26.15	-13	-13.15
	20MHz	Low	Band Edge	-29.33	-13	-16.33
		High	Band Edge	-30.02	-13	-17.02
	15MHz	Low	Band Edge	-27.99	-13	-14.99
		High	Band Edge	-27.81	-13	-14.81
	10MHz	Low	Band Edge	-26.98	-13	-13.98
		High	Band Edge	-26.81	-13	-13.81

Table 7-26. Conducted Band Edge Results - Ant1 - DoD Band – Main

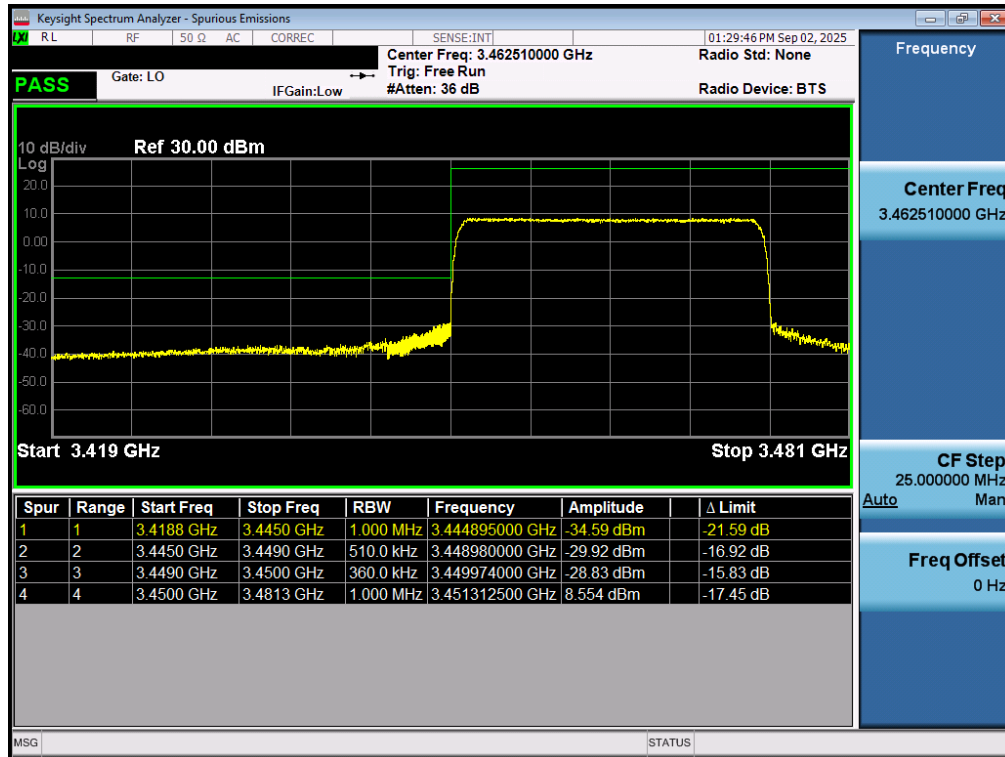
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 134 of 180

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-30.59	-13	-17.59
		High	Band Edge	-31.15	-13	-18.15
	90MHz	Low	Band Edge	-34.38	-13	-21.38
		High	Band Edge	-31.58	-13	-18.58
	80MHz	Low	Band Edge	-31.95	-13	-18.95
		High	Band Edge	-30.30	-13	-17.30
	70MHz	Low	Band Edge	-33.75	-13	-20.75
		High	Band Edge	-33.03	-13	-20.03
	60MHz	Low	Band Edge	-30.47	-13	-17.47
		High	Band Edge	-30.45	-13	-17.45
	50MHz	Low	Band Edge	-30.25	-13	-17.25
		High	Band Edge	-30.78	-13	-17.78
	40MHz	Low	Band Edge	-24.34	-13	-11.34
		High	Band Edge	-23.24	-13	-10.24
	30MHz	Low	Band Edge	-28.04	-13	-15.04
		High	Band Edge	-28.12	-13	-15.12
	25MHz	Low	Band Edge	-29.32	-13	-16.32
		High	Band Edge	-28.66	-13	-15.66
	20MHz	Low	Band Edge	-28.08	-13	-15.08
		High	Band Edge	-29.14	-13	-16.14
	15MHz	Low	Band Edge	-26.79	-13	-13.79
		High	Band Edge	-27.68	-13	-14.68
	10MHz	Low	Band Edge	-25.58	-13	-12.58
		High	Band Edge	-25.34	-13	-12.34

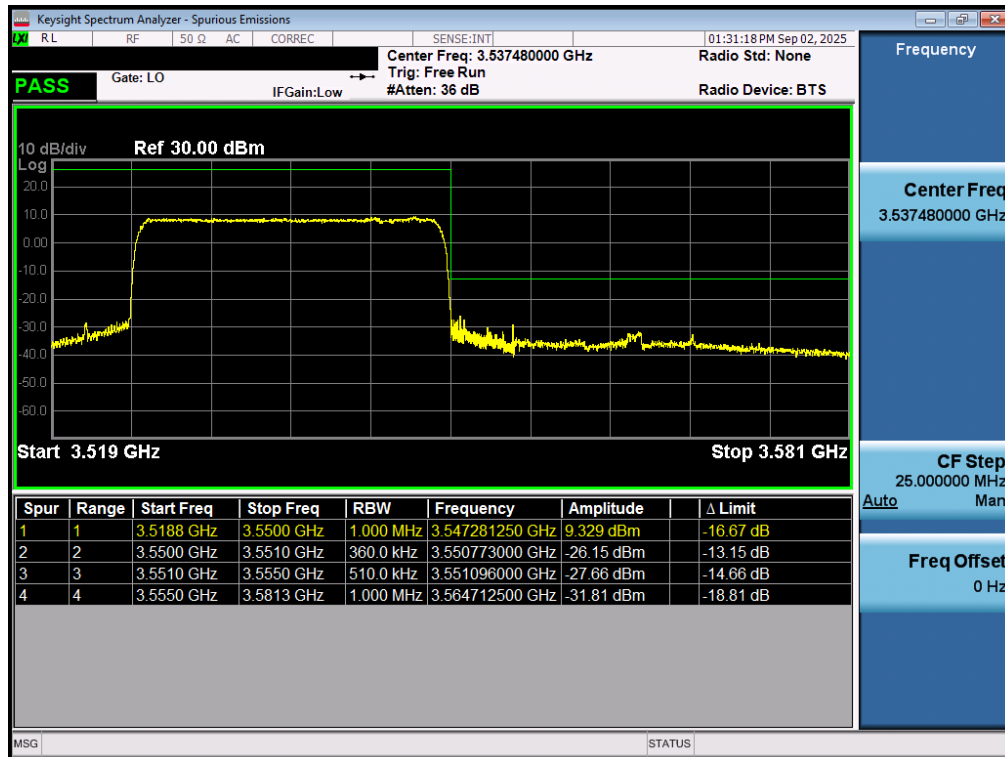
Table 7-27. Conducted Band Edge Results - Ant1 – C-Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant1 – DoD Band – Main



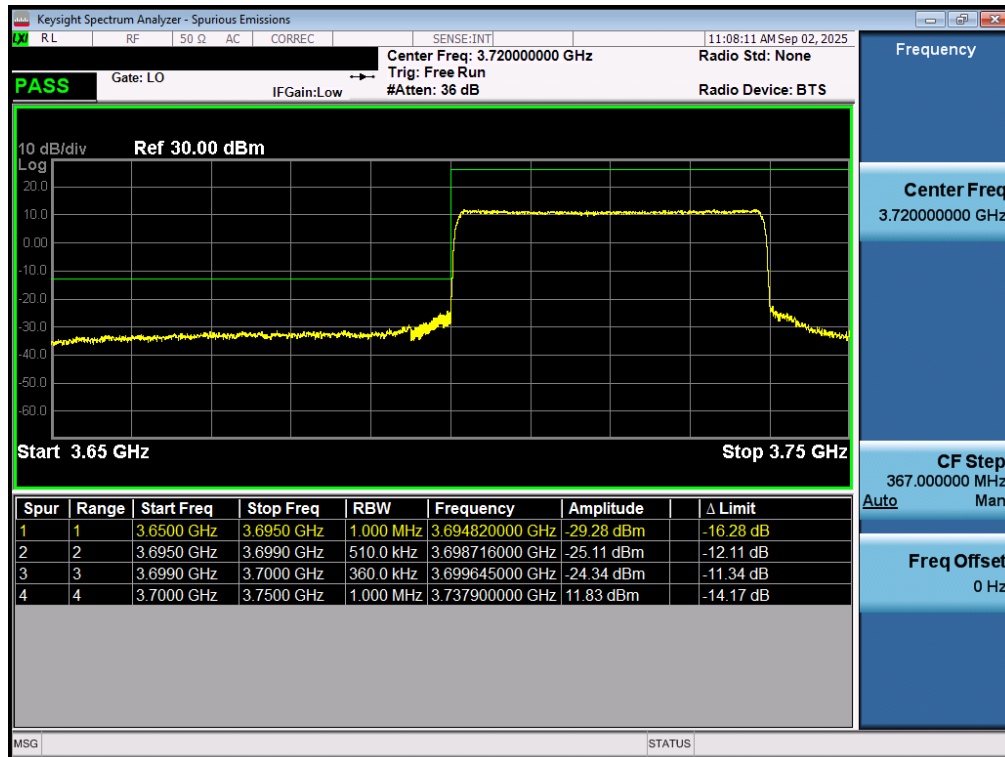
Plot 7-187. Lower ACP Plot (NR Band n77 - 25MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - Main)



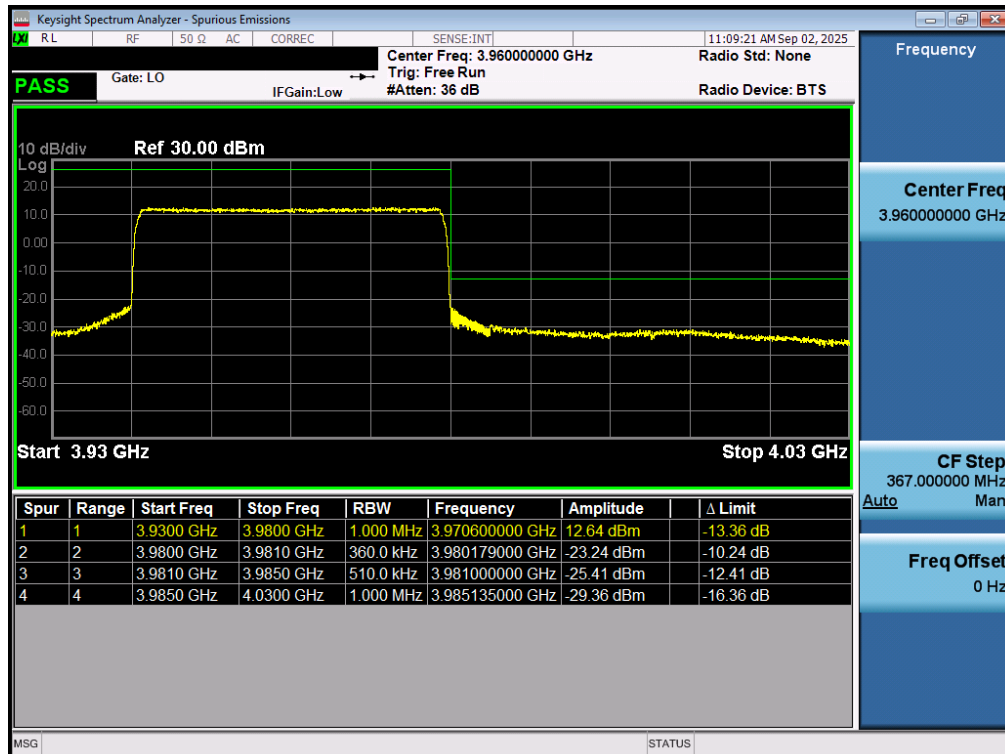
Plot 7-188. Upper ACP Plot (NR Band n77 - 25MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant1 – C Band – Main



Plot 7-189. Lower ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK – Full RB – Ant1 – C Band - Main)



Plot 7-190. Upper ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK – Full RB – Ant1 – C Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 137 of 180

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-30.23	-13	-17.23
		High	Band Edge	-26.42	-13	-13.42

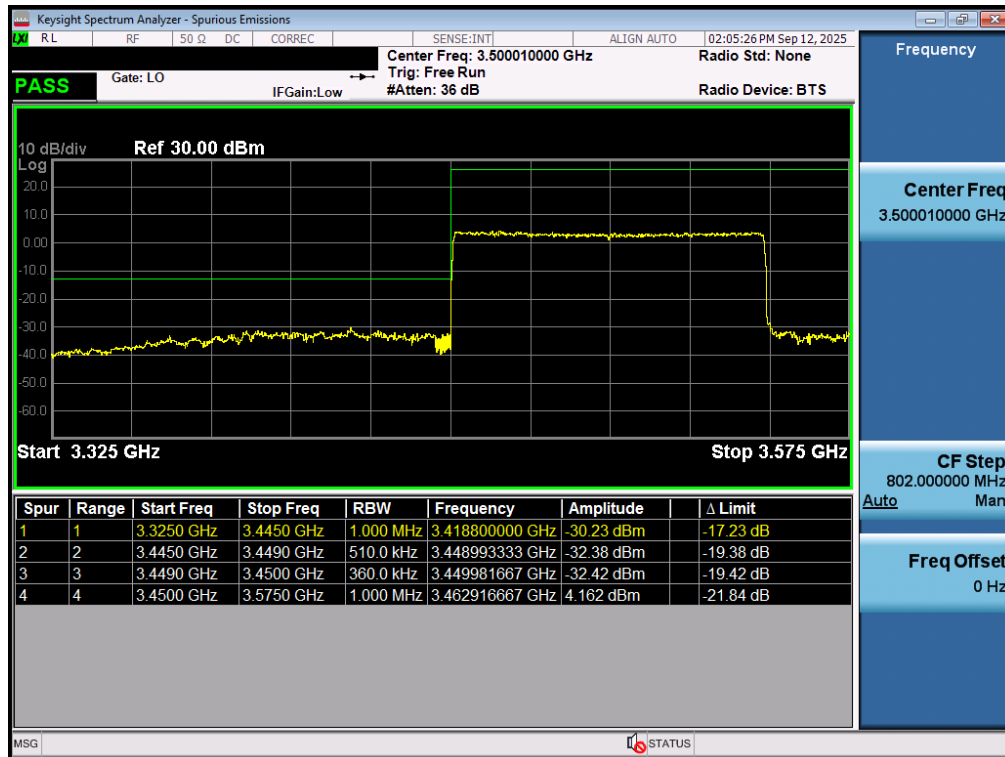
Table 7-28. Conducted Band Edge Result - Ant1 - DoD Band - UL-MIMO

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-30.15	-13	-17.15
		High	Band Edge	-28.84	-13	-15.84

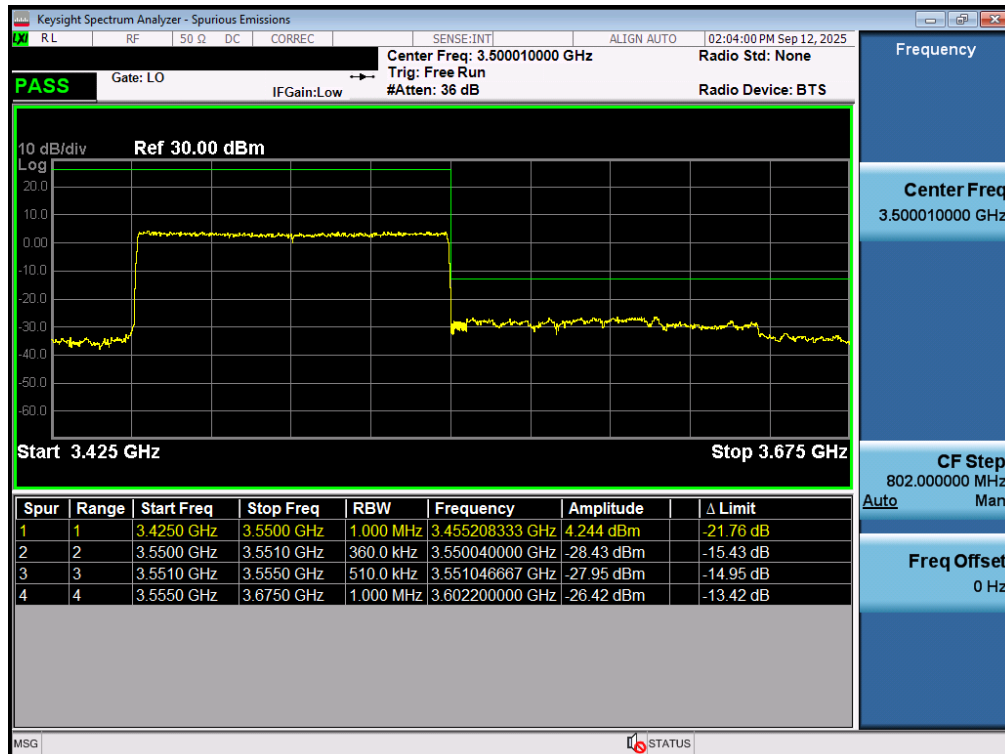
Table 7-29. Conducted Band Edge Result – Ant1 – C-Band - UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 138 of 180

NR Band n77 – Ant1 – DoD Band – UL-MIMO



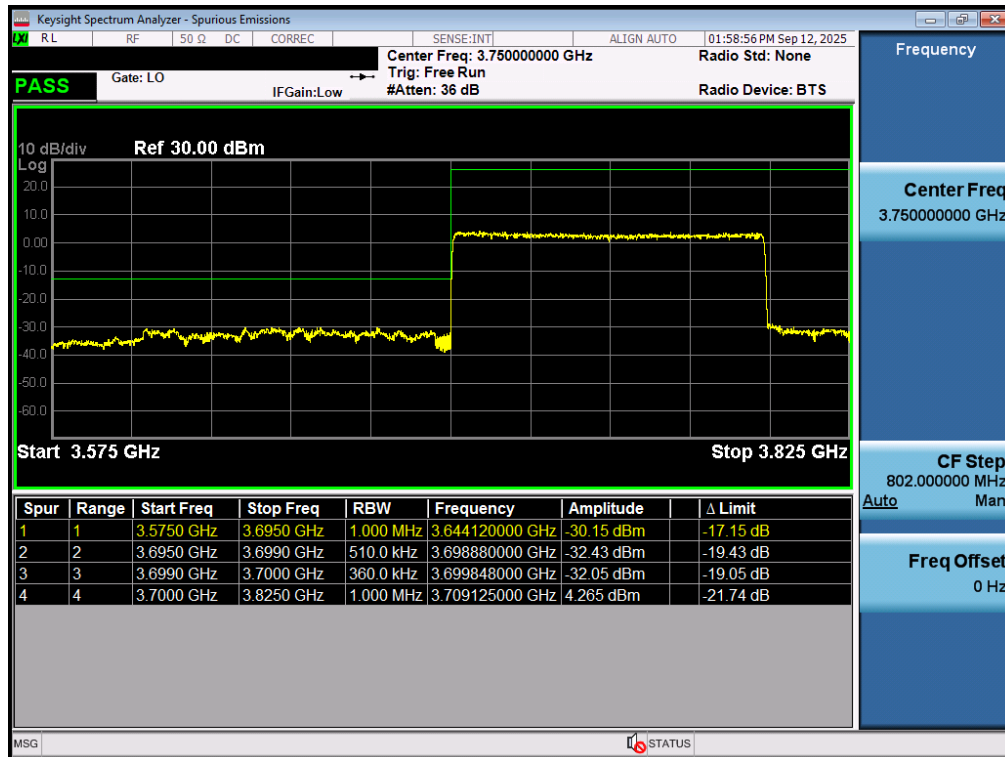
Plot 7-191. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - UL-MIMO)



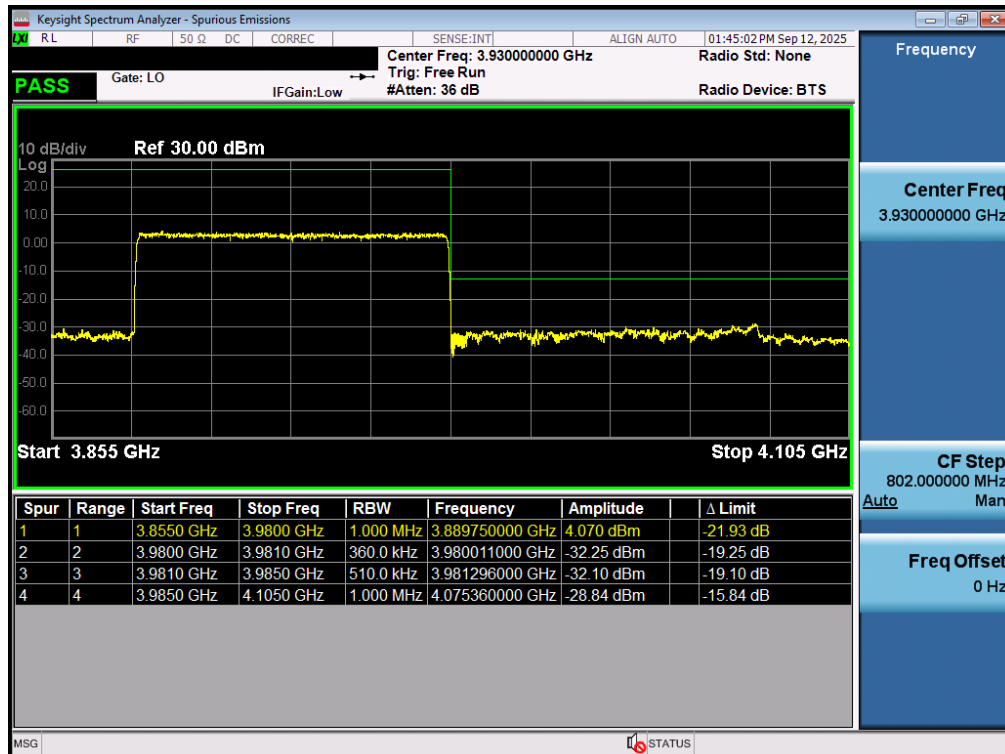
Plot 7-192. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant1 – C-Band – UL-MIMO



Plot 7-193. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant1 – C-Band - UL-MIMO)



Plot 7-194. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant1 – C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 140 of 180

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-22.70	-13	-9.70
		High	Band Edge	-21.14	-13	-8.14
	90MHz	Low	Band Edge	-22.78	-13	-9.78
		High	Band Edge	-21.87	-13	-8.87
	80MHz	Low	Band Edge	-21.04	-13	-8.04
		High	Band Edge	-20.79	-13	-7.79
	70MHz	Low	Band Edge	-21.14	-13	-8.14
		High	Band Edge	-21.53	-13	-8.53
	60MHz	Low	Band Edge	-24.18	-13	-11.18
		High	Band Edge	-23.13	-13	-10.13
	50MHz	Low	Band Edge	-17.03	-13	-4.03
		High	Band Edge	-18.80	-13	-5.80
	40MHz	Low	Band Edge	-19.43	-13	-6.43
		High	Band Edge	-21.42	-13	-8.42
	30MHz	Low	Band Edge	-19.61	-13	-6.61
		High	Band Edge	-21.46	-13	-8.46
	25MHz	Low	Band Edge	-16.81	-13	-3.81
		High	Band Edge	-20.37	-13	-7.37
	20MHz	Low	Band Edge	-18.46	-13	-5.46
		High	Band Edge	-20.75	-13	-7.75
	15MHz	Low	Band Edge	-16.78	-13	-3.78
		High	Band Edge	-20.02	-13	-7.02
	10MHz	Low	Band Edge	-15.20	-13	-2.20
		High	Band Edge	-17.80	-13	-4.80

Table 7-30. Conducted Band Edge Result – Ant2 - DoD Band - UL-MIMO

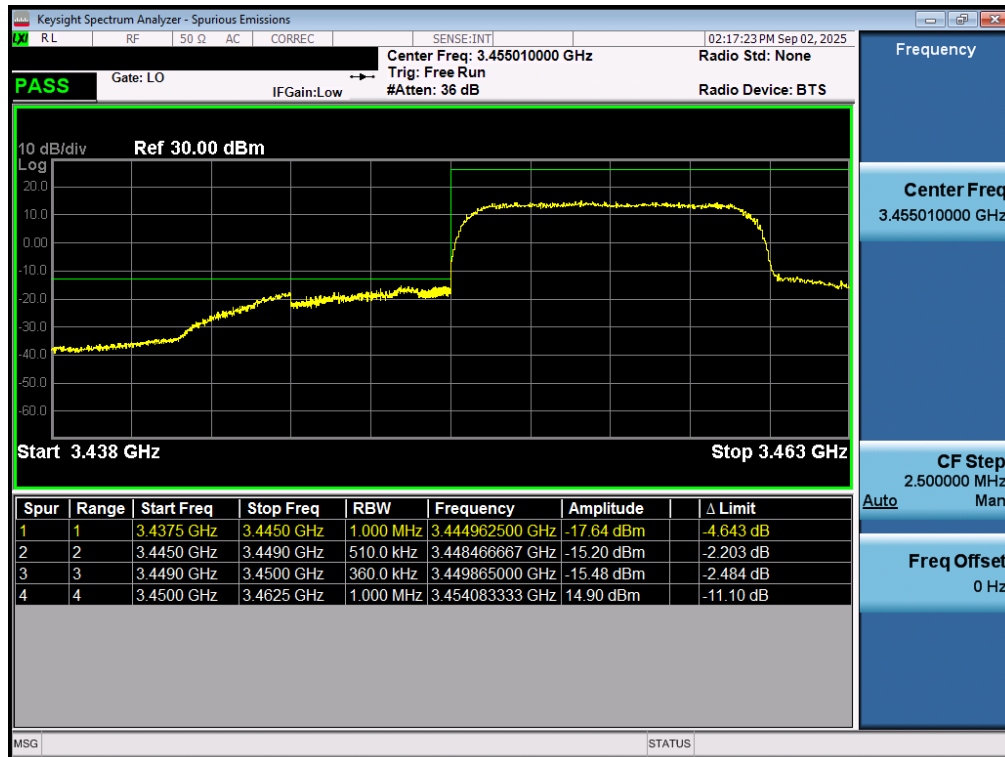
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 141 of 180

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-30.11	-13	-17.11
		High	Band Edge	-31.74	-13	-18.74
	90MHz	Low	Band Edge	-33.02	-13	-20.02
		High	Band Edge	-33.01	-13	-20.01
	80MHz	Low	Band Edge	-31.74	-13	-18.74
		High	Band Edge	-32.25	-13	-19.25
	70MHz	Low	Band Edge	-33.49	-13	-20.49
		High	Band Edge	-33.78	-13	-20.78
	60MHz	Low	Band Edge	-30.22	-13	-17.22
		High	Band Edge	-30.15	-13	-17.15
	50MHz	Low	Band Edge	-30.79	-13	-17.79
		High	Band Edge	-32.36	-13	-19.36
	40MHz	Low	Band Edge	-28.44	-13	-15.44
		High	Band Edge	-30.81	-13	-17.81
	30MHz	Low	Band Edge	-26.96	-13	-13.96
		High	Band Edge	-30.09	-13	-17.09
	25MHz	Low	Band Edge	-28.54	-13	-15.54
		High	Band Edge	-30.45	-13	-17.45
	20MHz	Low	Band Edge	-27.12	-13	-14.12
		High	Band Edge	-29.60	-13	-16.60
	15MHz	Low	Band Edge	-26.16	-13	-13.16
		High	Band Edge	-29.91	-13	-16.91
	10MHz	Low	Band Edge	-25.28	-13	-12.28
		High	Band Edge	-30.20	-13	-17.20

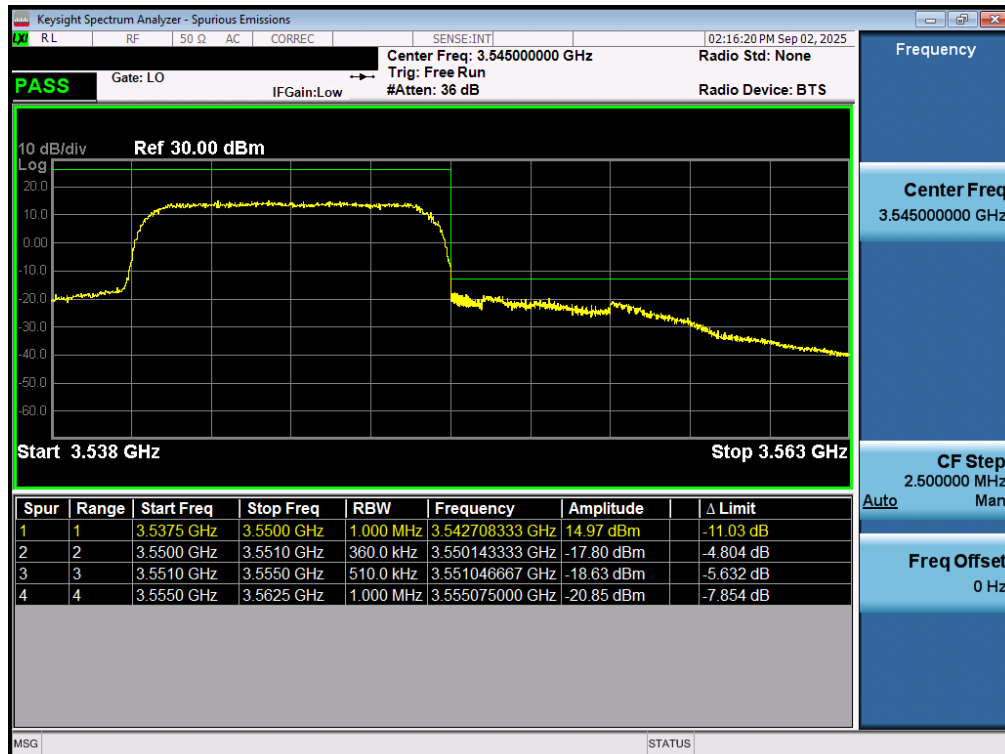
Table 7-31. Conducted Band Edge Result – Ant2 – C-Band - UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant2 – DoD Band – UL-MIMO



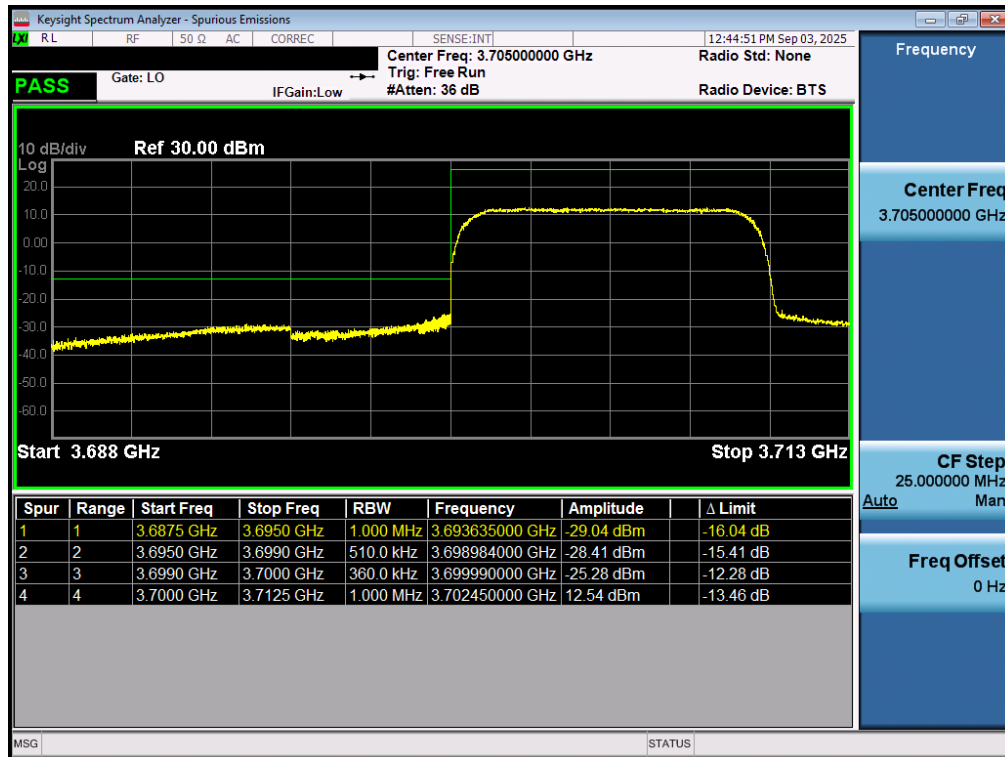
Plot 7-195. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - Main)



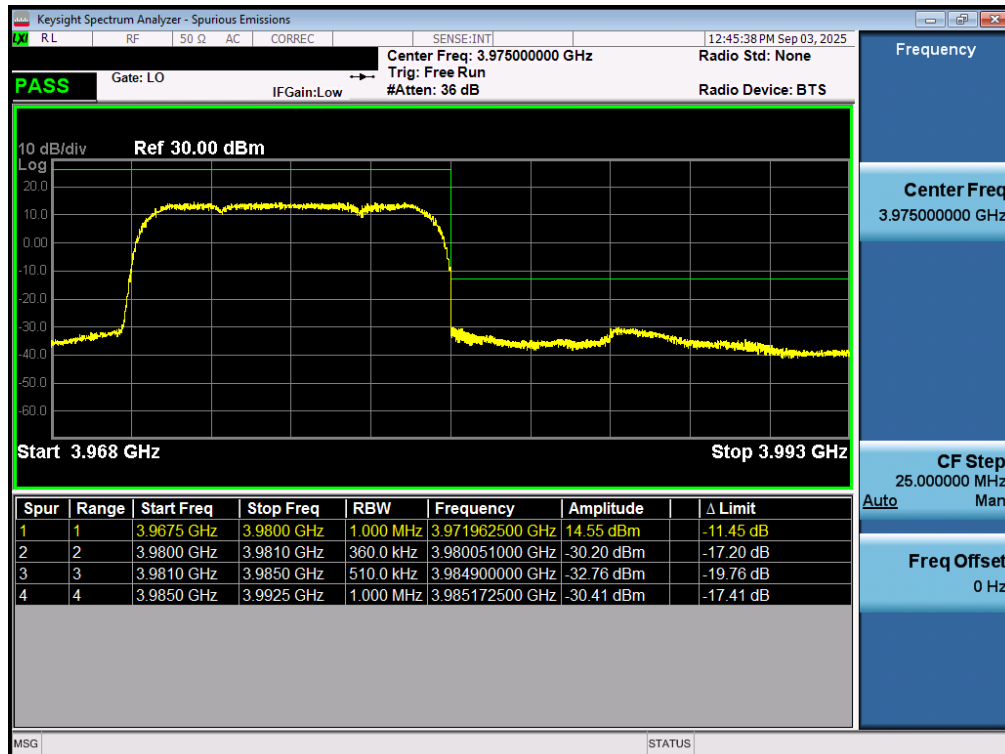
Plot 7-196. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant2 – C-Band – UL-MIMO



Plot 7-197. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – C Band - Main)



Plot 7-198. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – C Band - Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 144 of 180

7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure Used

ANSI C63.26:2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

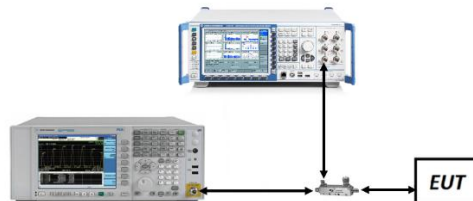


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

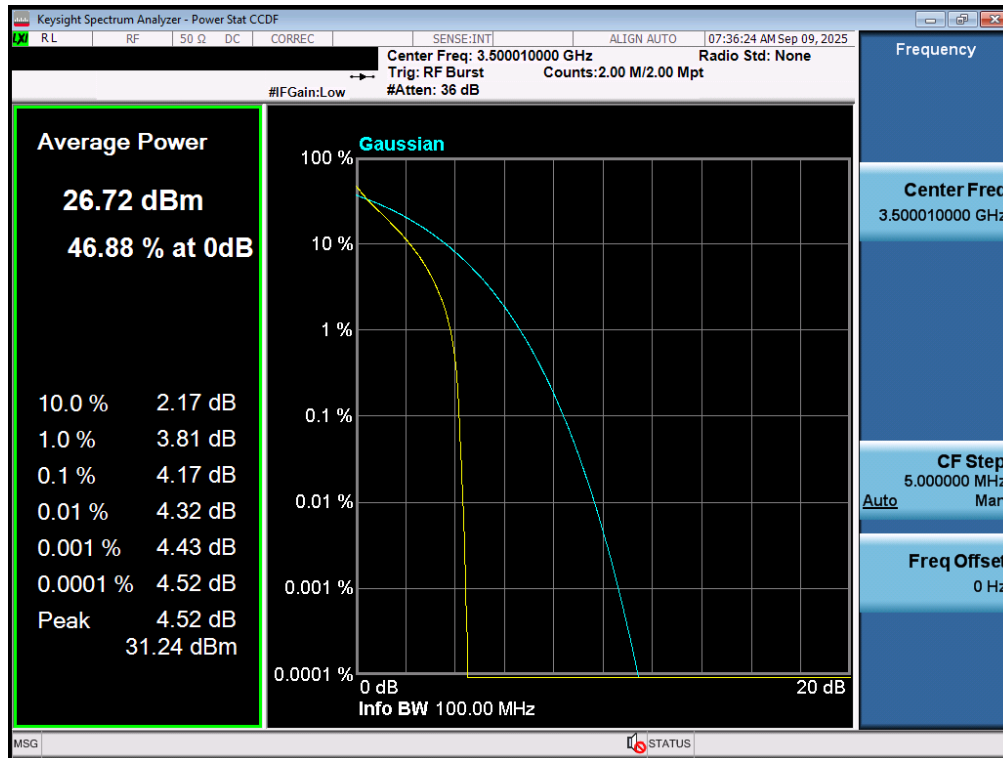
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 145 of 180

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	26.72	4.17	13	-8.83
		QPSK	24.16	6.69	13	-6.31
		256QAM	20.59	8.37	13	-4.63
	90MHz	$\pi/2$ BPSK	26.69	3.99	13	-9.01
		QPSK	24.10	6.64	13	-6.36
		256QAM	20.62	8.35	13	-4.65
	80MHz	$\pi/2$ BPSK	26.73	4.04	13	-8.96
		QPSK	24.09	6.65	13	-6.35
		256QAM	20.60	8.36	13	-4.64
	70MHz	$\pi/2$ BPSK	26.70	3.88	13	-9.12
		QPSK	24.08	6.63	13	-6.37
		256QAM	20.67	8.31	13	-4.69
	60MHz	$\pi/2$ BPSK	26.52	4.05	13	-8.95
		QPSK	24.00	6.64	13	-6.36
		256QAM	20.44	8.32	13	-4.68
	50MHz	$\pi/2$ BPSK	26.80	4.01	13	-8.99
		QPSK	24.27	6.55	13	-6.45
		256QAM	20.82	8.37	13	-4.63
	40MHz	$\pi/2$ BPSK	26.63	3.75	13	-9.25
		QPSK	24.15	6.44	13	-6.56
		256QAM	20.65	8.36	13	-4.64
	30MHz	$\pi/2$ BPSK	26.58	3.83	13	-9.17
		QPSK	24.08	6.46	13	-6.54
		256QAM	20.65	8.36	13	-4.64
	25MHz	$\pi/2$ BPSK	26.63	3.81	13	-9.19
		QPSK	24.13	6.56	13	-6.44
		256QAM	20.67	8.36	13	-4.64
	20MHz	$\pi/2$ BPSK	26.48	3.72	13	-9.28
		QPSK	24.07	6.41	13	-6.59
		256QAM	20.53	8.35	13	-4.65
	15MHz	$\pi/2$ BPSK	26.41	3.92	13	-9.08
		QPSK	23.96	6.45	13	-6.55
		256QAM	20.51	8.32	13	-4.68
	10MHz	$\pi/2$ BPSK	26.42	3.86	13	-9.14
		QPSK	23.99	6.54	13	-6.46
		256QAM	20.54	8.38	13	-4.62

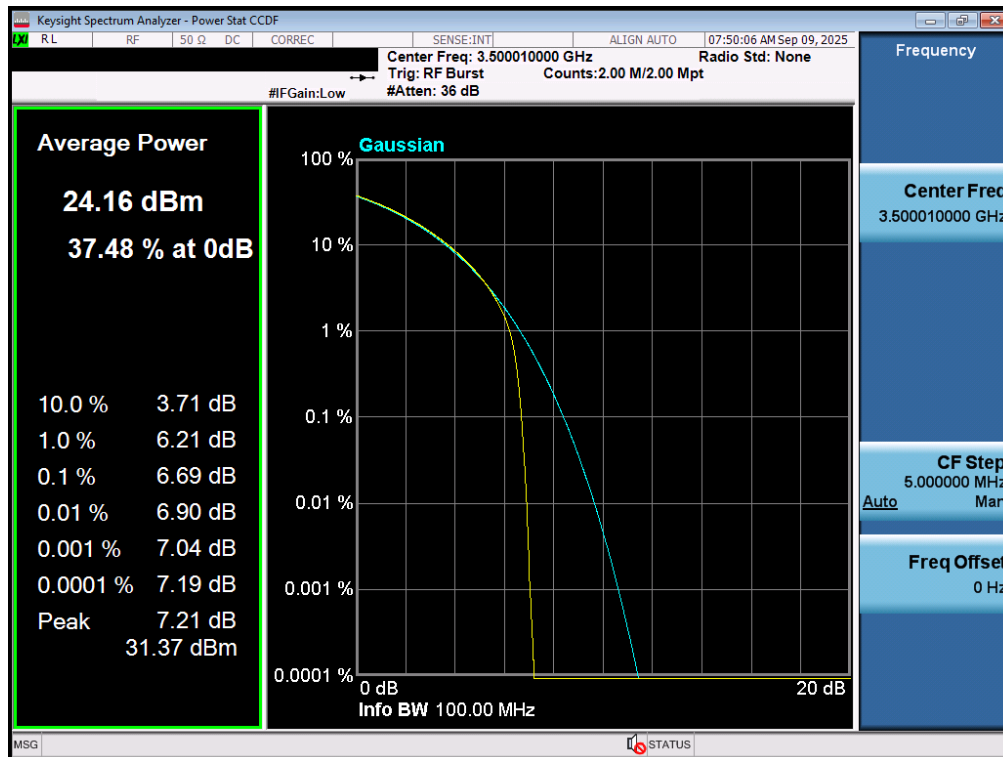
Table 7-32. PAR Results - Ant1 - DoD Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 146 of 180

NR Band n77 – Ant1 – DoD Band – Main

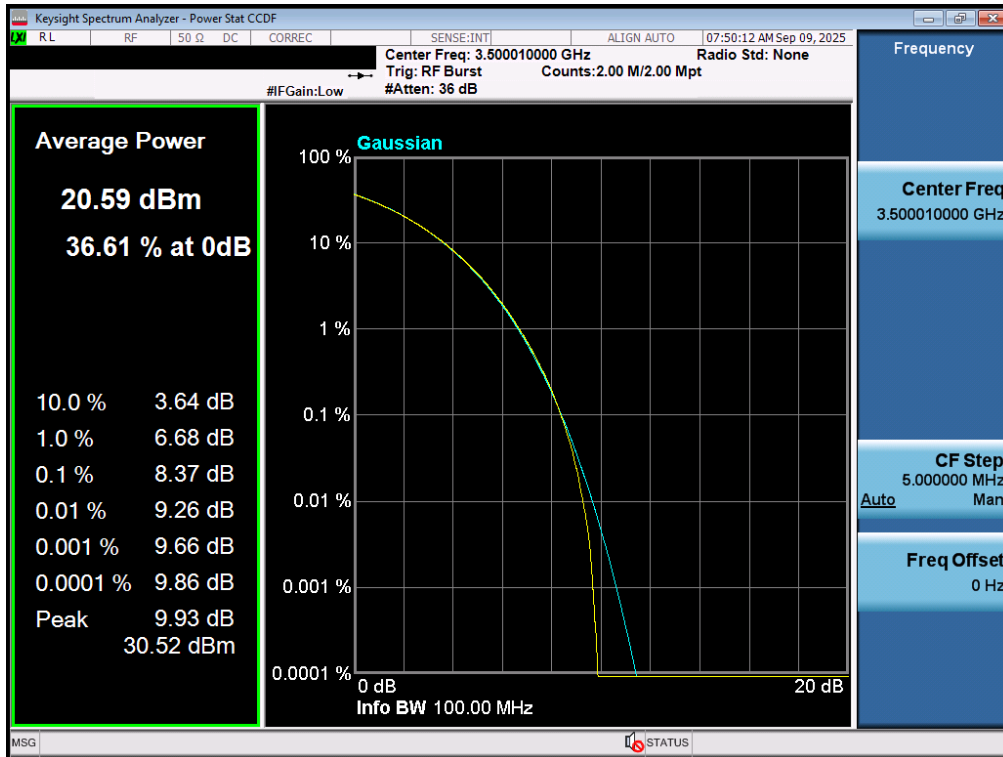


Plot 7-199. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant1 – DoD Band – Main)



Plot 7-200. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant1 – DoD Band – Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 147 of 180



Plot 7-201. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 - DoD Band - Main)

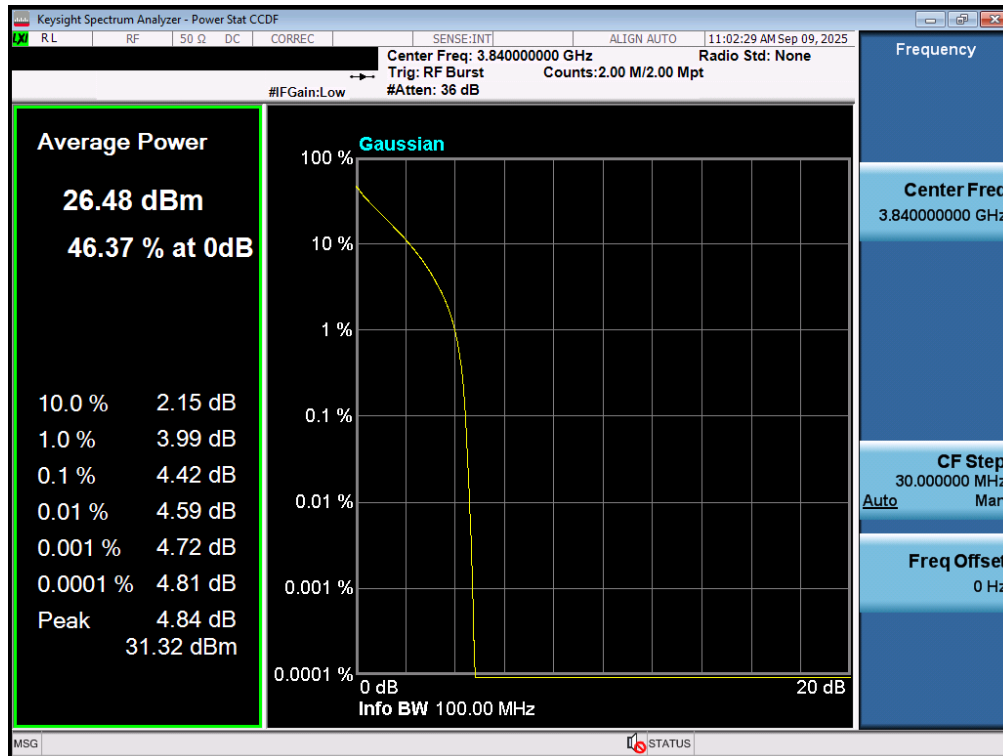
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 148 of 180

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	26.48	4.42	13	-8.58
		QPSK	23.90	6.43	13	-6.57
		256QAM	20.37	7.93	13	-5.07
	90MHz	$\pi/2$ BPSK	26.42	3.99	13	-9.01
		QPSK	23.86	6.45	13	-6.55
		256QAM	20.39	7.94	13	-5.06
	80MHz	$\pi/2$ BPSK	26.45	4.00	13	-9.00
		QPSK	23.86	6.44	13	-6.56
		256QAM	20.33	7.92	13	-5.08
	70MHz	$\pi/2$ BPSK	26.47	3.89	13	-9.11
		QPSK	23.85	6.46	13	-6.54
		256QAM	20.33	7.92	13	-5.08
	60MHz	$\pi/2$ BPSK	26.26	3.96	13	-9.04
		QPSK	23.79	6.50	13	-6.50
		256QAM	20.21	7.96	13	-5.04
	50MHz	$\pi/2$ BPSK	26.57	3.96	13	-9.04
		QPSK	23.96	6.36	13	-6.64
		256QAM	20.51	7.91	13	-5.09
	40MHz	$\pi/2$ BPSK	26.38	3.78	13	-9.22
		QPSK	23.77	6.36	13	-6.64
		256QAM	20.30	7.88	13	-5.12
	30MHz	$\pi/2$ BPSK	26.36	3.86	13	-9.14
		QPSK	23.79	6.31	13	-6.69
		256QAM	20.32	7.89	13	-5.11
	25MHz	$\pi/2$ BPSK	26.32	3.50	13	-9.50
		QPSK	23.77	6.44	13	-6.56
		256QAM	20.29	7.92	13	-5.08
	20MHz	$\pi/2$ BPSK	26.34	3.38	13	-9.62
		QPSK	23.79	6.25	13	-6.75
		256QAM	20.32	7.87	13	-5.13
	15MHz	$\pi/2$ BPSK	26.36	3.78	13	-9.22
		QPSK	23.82	6.25	13	-6.75
		256QAM	20.36	7.89	13	-5.11
	10MHz	$\pi/2$ BPSK	26.26	3.95	13	-9.05
		QPSK	23.74	6.27	13	-6.73
		256QAM	20.25	7.92	13	-5.08

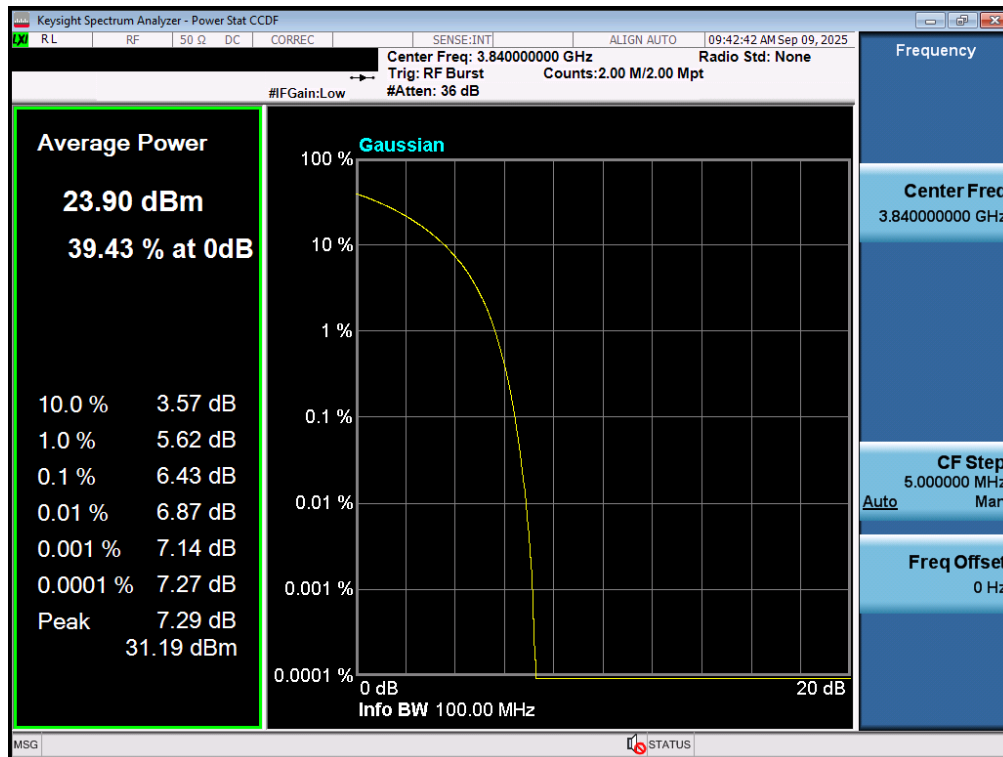
Table 7-33. PAR Results - Ant1 – C-Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 149 of 180

NR Band n77 – Ant1 – C-Band – Main

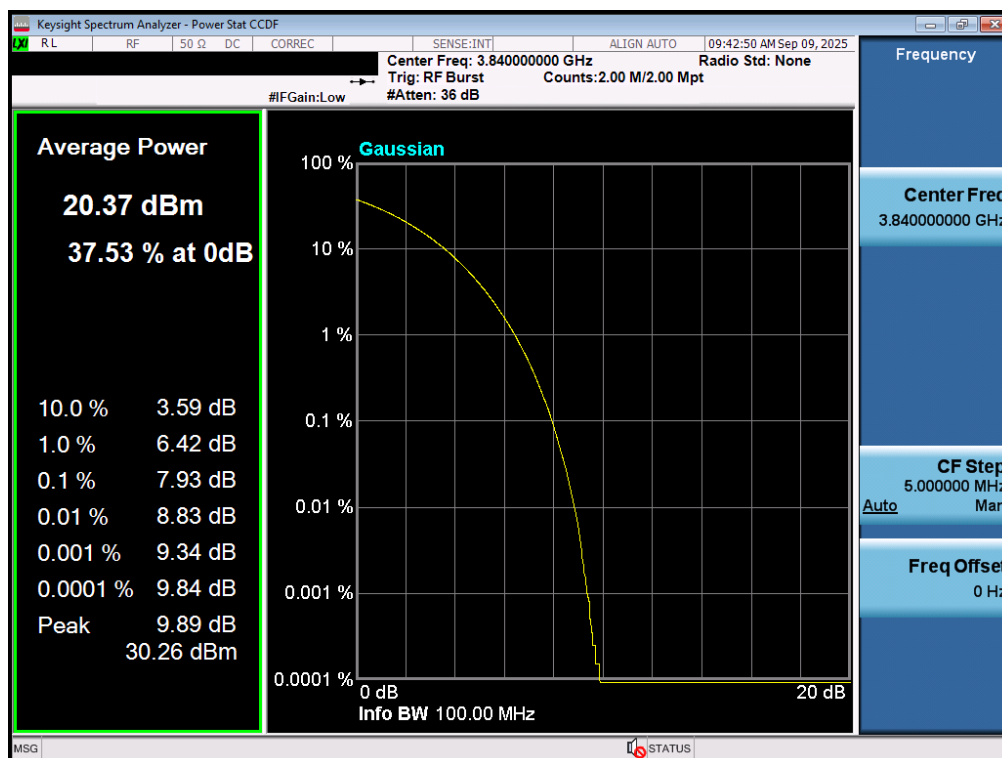


Plot 7-202. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant1 – C-Band – Main)



Plot 7-203. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant1 – C-Band – Main)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 150 of 180



Plot 7-204. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band - Main)

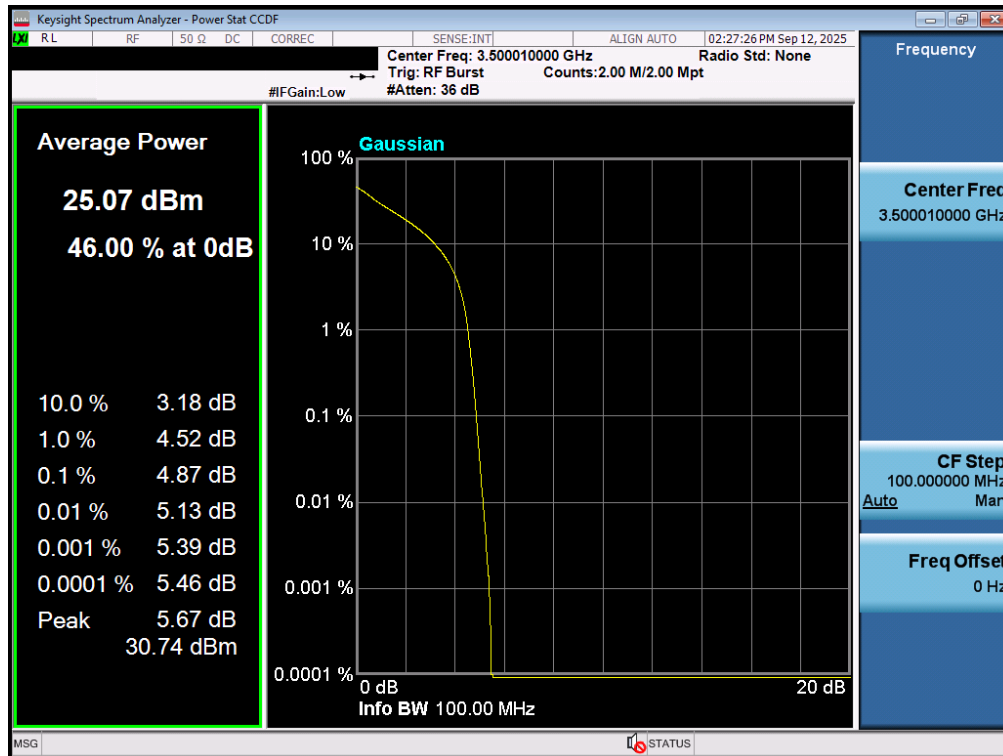
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 151 of 180

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	25.07	4.87	13	-8.13
		QPSK	22.71	6.71	13	-6.29
		256QAM	18.75	8.47	13	-4.53

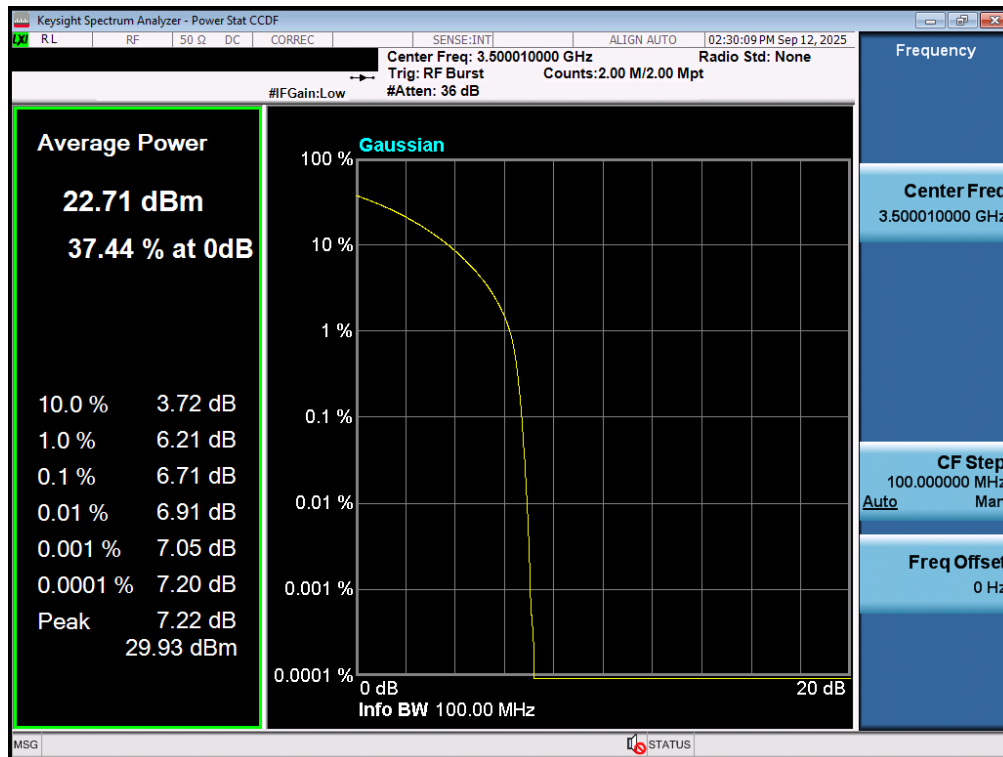
Table 7-34. PAR Result - Ant1 - DoD Band - UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 152 of 180

NR Band n77 – Ant1 – DoD Band – UL-MIMO

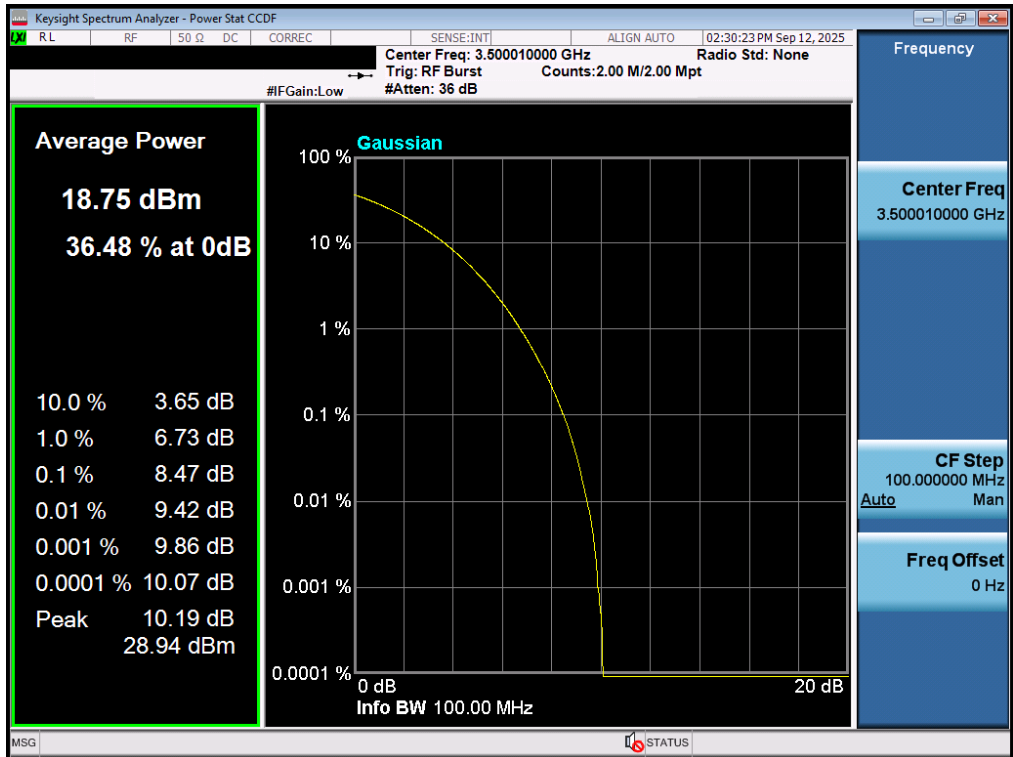


Plot 7-205. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant1 – DoD Band – UL-MIMO)



Plot 7-206. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant1 – DoD Band – UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 153 of 180



Plot 7-207. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD Band – UL-MIMO)

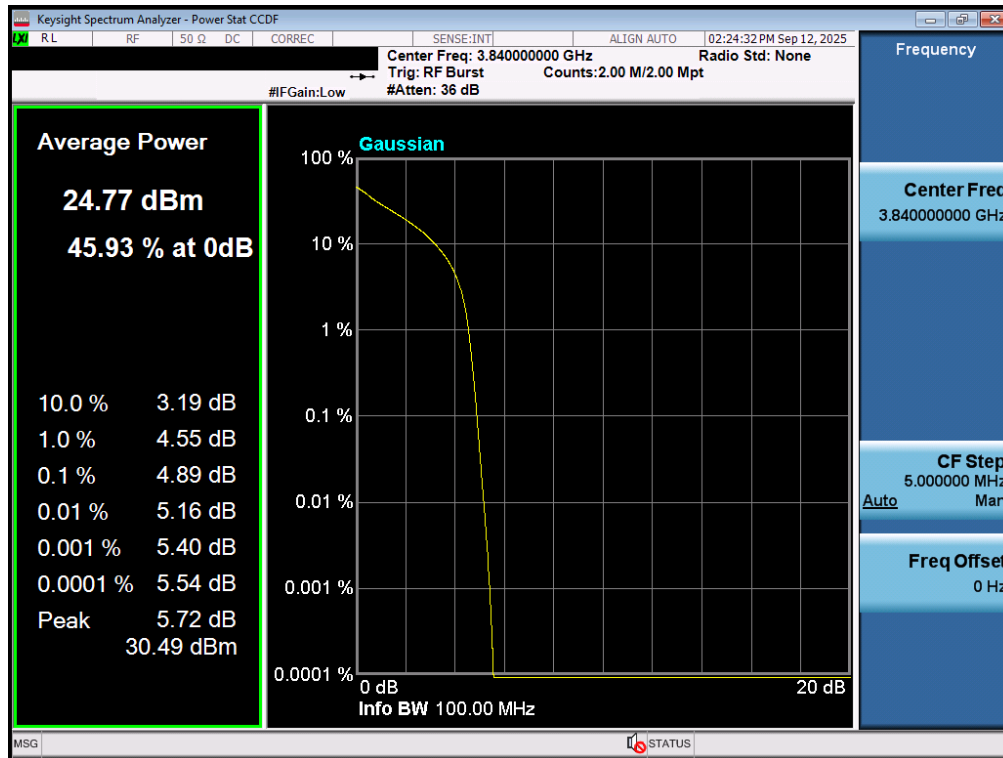
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 154 of 180

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	24.77	4.89	13	-8.11
		QPSK	22.36	6.74	13	-6.26
		256QAM	18.40	8.35	13	-4.65

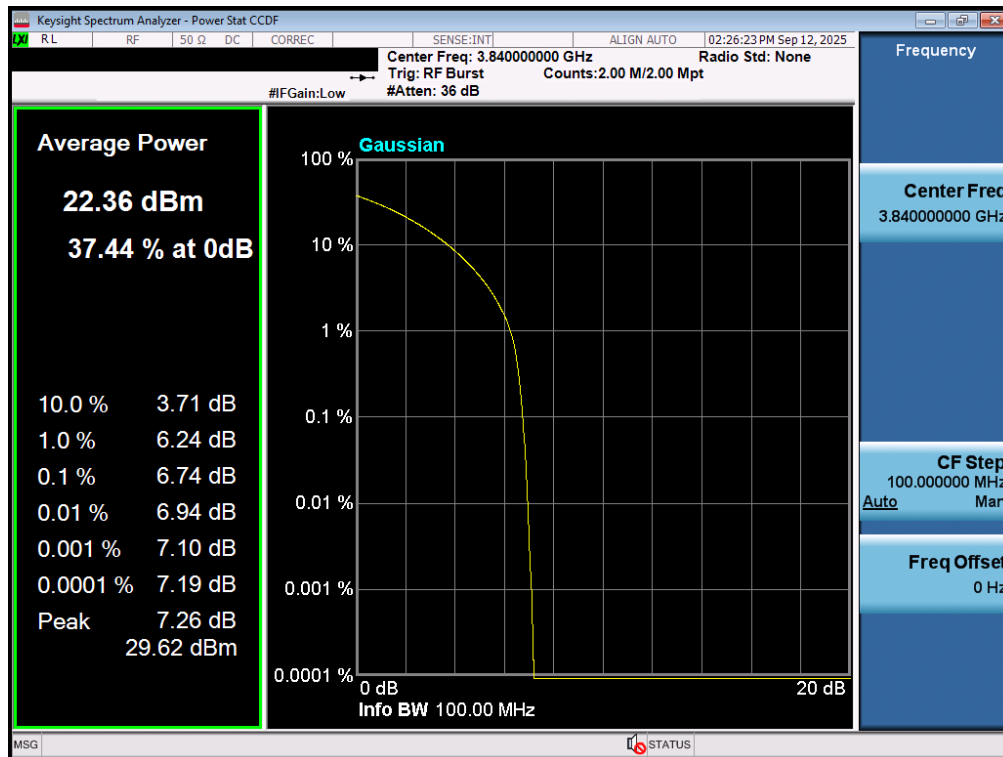
Table 7-35. PAR Result - Ant1 – C-Band - UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 155 of 180

NR Band n77 – Ant1 – C-Band – UL-MIMO

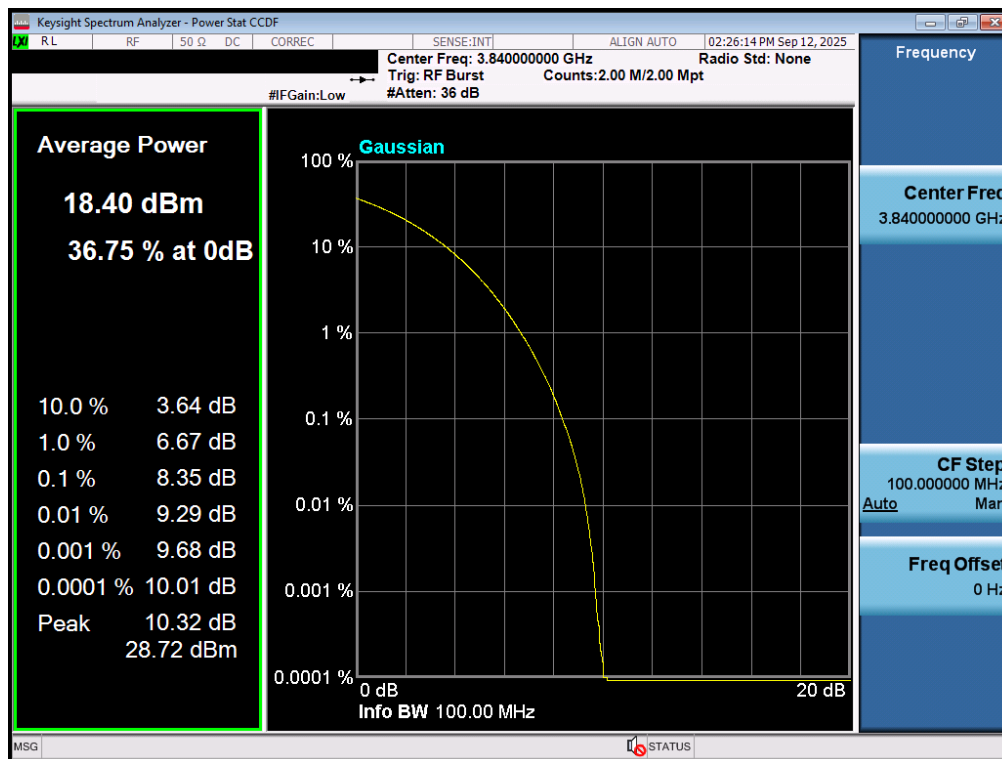


Plot 7-208. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant1 – C-Band – UL-MIMO)



Plot 7-209. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant1 – C-Band – UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 156 of 180



Plot 7-210. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band - UL-MIMO)

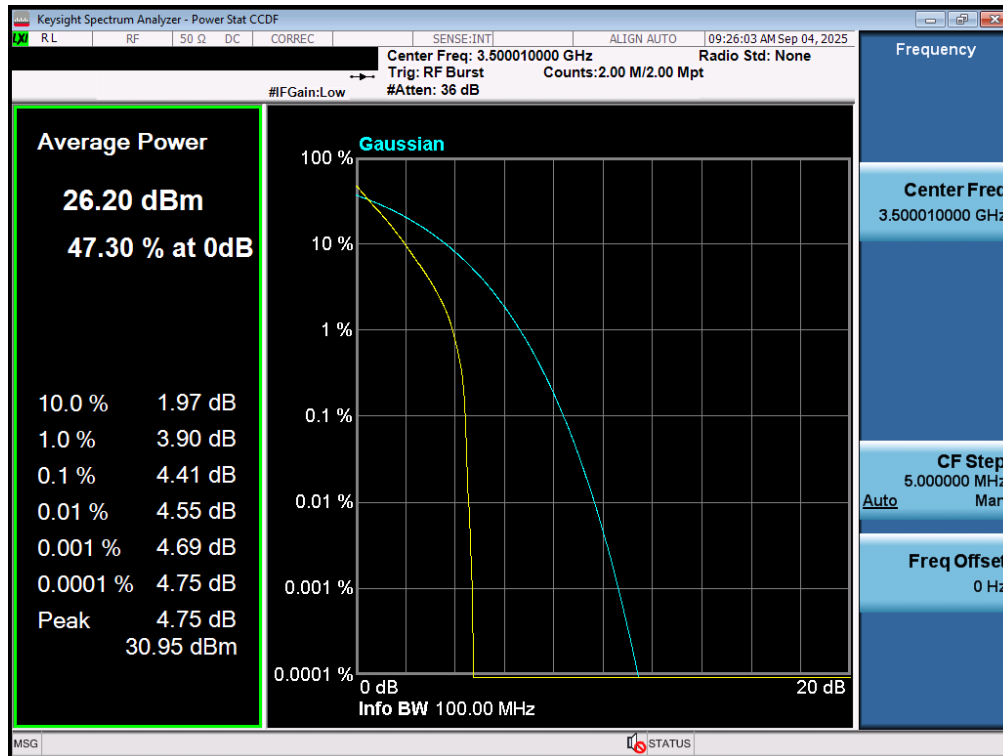
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 157 of 180

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	26.20	4.41	13	-8.59
		QPSK	23.94	6.68	13	-6.32
		256QAM	20.57	8.55	13	-4.45
	90MHz	$\pi/2$ BPSK	26.34	3.84	13	-9.16
		QPSK	23.96	6.57	13	-6.43
		256QAM	20.49	8.26	13	-4.74
	80MHz	$\pi/2$ BPSK	26.31	4.12	13	-8.88
		QPSK	23.83	6.64	13	-6.36
		256QAM	20.48	8.06	13	-4.94
	70MHz	$\pi/2$ BPSK	26.22	4.02	13	-8.98
		QPSK	23.91	6.57	13	-6.43
		256QAM	20.45	8.23	13	-4.77
	60MHz	$\pi/2$ BPSK	26.44	3.84	13	-9.16
		QPSK	23.85	6.55	13	-6.45
		256QAM	20.40	8.38	13	-4.62
	50MHz	$\pi/2$ BPSK	26.15	4.05	13	-8.95
		QPSK	23.95	6.48	13	-6.52
		256QAM	20.61	8.36	13	-4.64
	40MHz	$\pi/2$ BPSK	26.15	3.80	13	-9.20
		QPSK	23.98	6.36	13	-6.64
		256QAM	20.37	8.05	13	-4.95
	30MHz	$\pi/2$ BPSK	26.28	3.76	13	-9.25
		QPSK	23.86	6.40	13	-6.60
		256QAM	20.45	8.44	13	-4.56
	25MHz	$\pi/2$ BPSK	26.44	3.79	13	-9.21
		QPSK	23.81	6.56	13	-6.44
		256QAM	20.46	8.05	13	-4.95
	20MHz	$\pi/2$ BPSK	26.45	3.62	13	-9.38
		QPSK	23.83	6.35	13	-6.65
		256QAM	20.39	8.36	13	-4.64
	15MHz	$\pi/2$ BPSK	26.44	3.65	13	-9.35
		QPSK	23.77	6.42	13	-6.58
		256QAM	20.40	8.12	13	-4.88
	10MHz	$\pi/2$ BPSK	26.37	3.69	13	-9.31
		QPSK	23.78	6.49	13	-6.51
		256QAM	20.40	8.03	13	-4.97

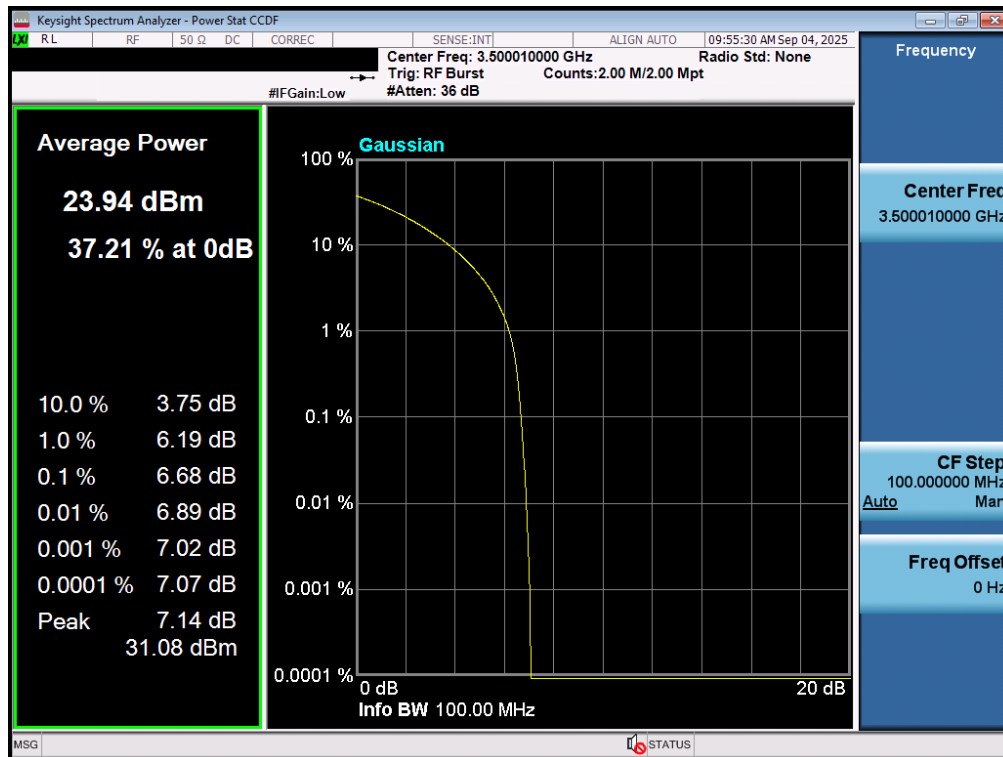
Table 7-36. PAR Result – Ant2 - DoD Band - UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 158 of 180

NR Band n77 – Ant2 – DoD Band – UL-MIMO

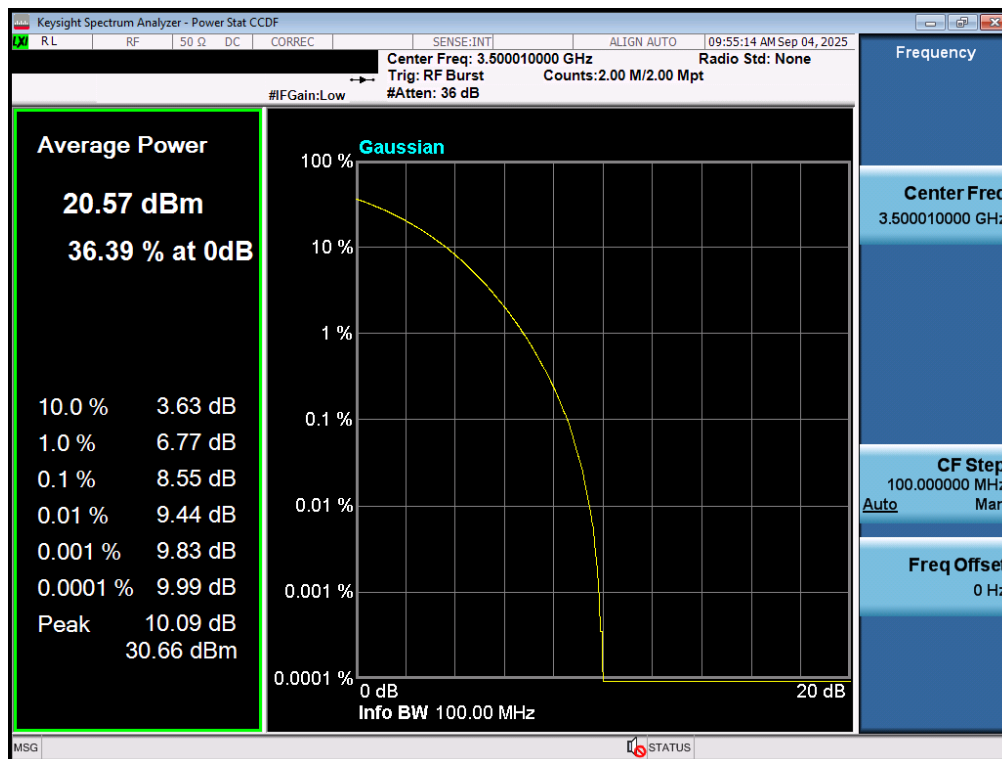


Plot 7-211. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant2 – DoD Band – UL-MIMO)



Plot 7-212. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant2 – DoD Band – UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 159 of 180



Plot 7-213. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant2 – DoD Band – UL-MIMO)

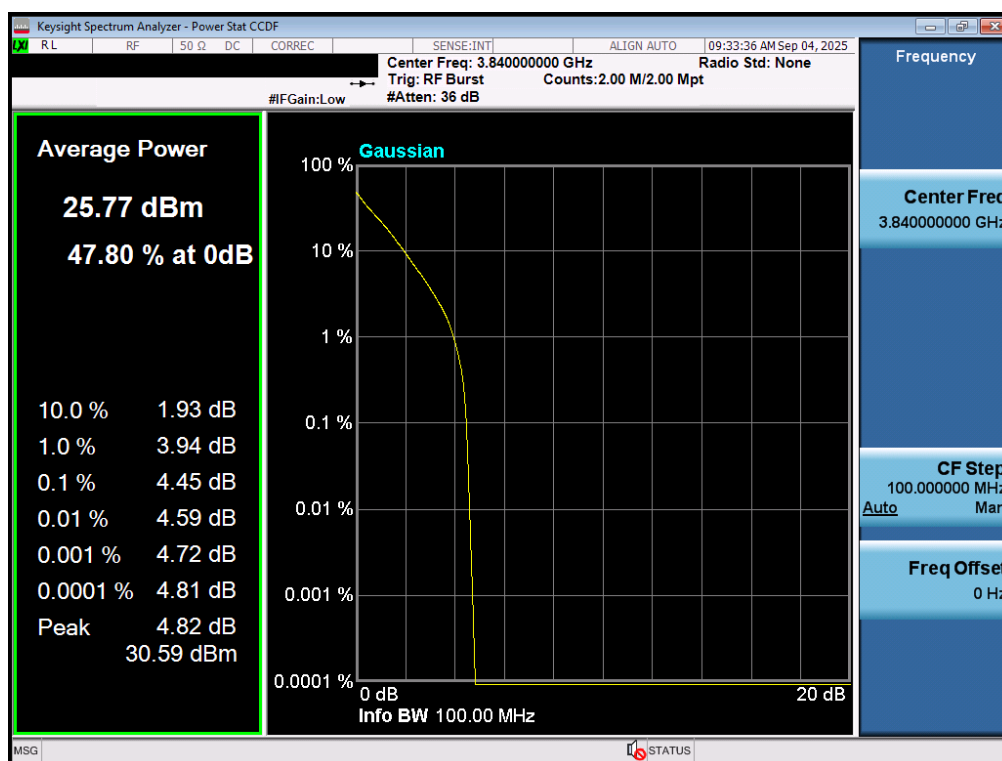
FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 160 of 180

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	25.77	4.45	13	-8.55
		QPSK	23.66	6.68	13	-6.32
		256QAM	20.29	8.18	13	-4.82
	90MHz	$\pi/2$ BPSK	26.28	3.74	13	-9.26
		QPSK	23.67	6.56	13	-6.44
		256QAM	20.23	8.49	13	-4.51
	80MHz	$\pi/2$ BPSK	26.01	4.14	13	-8.86
		QPSK	23.64	6.64	13	-6.36
		256QAM	20.25	8.25	13	-4.75
	70MHz	$\pi/2$ BPSK	26.03	3.99	13	-9.01
		QPSK	23.51	6.59	13	-6.41
		256QAM	20.25	8.27	13	-4.73
	60MHz	$\pi/2$ BPSK	26.14	3.82	13	-9.18
		QPSK	23.54	6.52	13	-6.48
		256QAM	20.10	8.35	13	-4.65
	50MHz	$\pi/2$ BPSK	26.09	3.98	13	-9.02
		QPSK	23.46	6.49	13	-6.51
		256QAM	20.40	8.48	13	-4.52
	40MHz	$\pi/2$ BPSK	25.92	3.82	13	-9.18
		QPSK	23.72	6.36	13	-6.64
		256QAM	20.15	8.37	13	-4.63
	30MHz	$\pi/2$ BPSK	26.40	3.64	13	-9.36
		QPSK	23.64	6.42	13	-6.58
		256QAM	20.32	8.35	13	-4.65
	25MHz	$\pi/2$ BPSK	26.05	3.85	13	-9.15
		QPSK	23.55	6.56	13	-6.44
		256QAM	20.27	8.29	13	-4.71
	20MHz	$\pi/2$ BPSK	26.25	3.57	13	-9.43
		QPSK	23.66	6.37	13	-6.63
		256QAM	20.14	8.46	13	-4.54
	15MHz	$\pi/2$ BPSK	26.16	3.70	13	-9.30
		QPSK	23.50	6.42	13	-6.58
		256QAM	20.24	8.28	13	-4.72
	10MHz	$\pi/2$ BPSK	26.27	3.66	13	-9.34
		QPSK	23.47	6.51	13	-6.49
		256QAM	20.19	8.10	13	-4.90

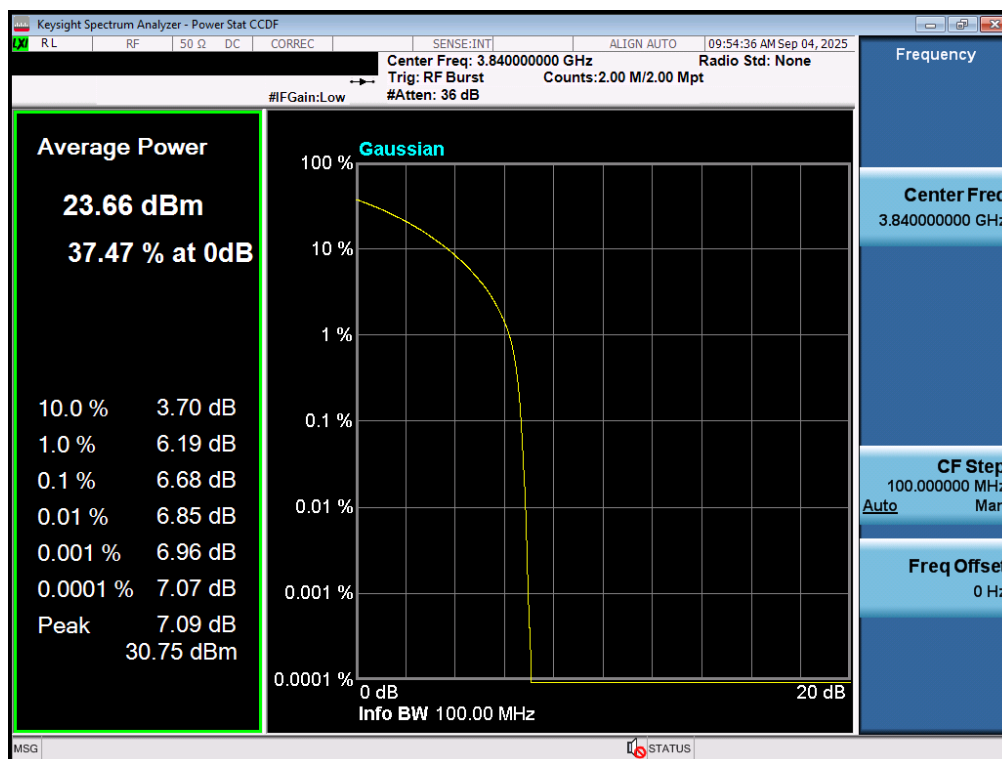
Table 7-37. PAR Result – Ant2 – C-Band - UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 – Ant2 – C-Band – UL-MIMO

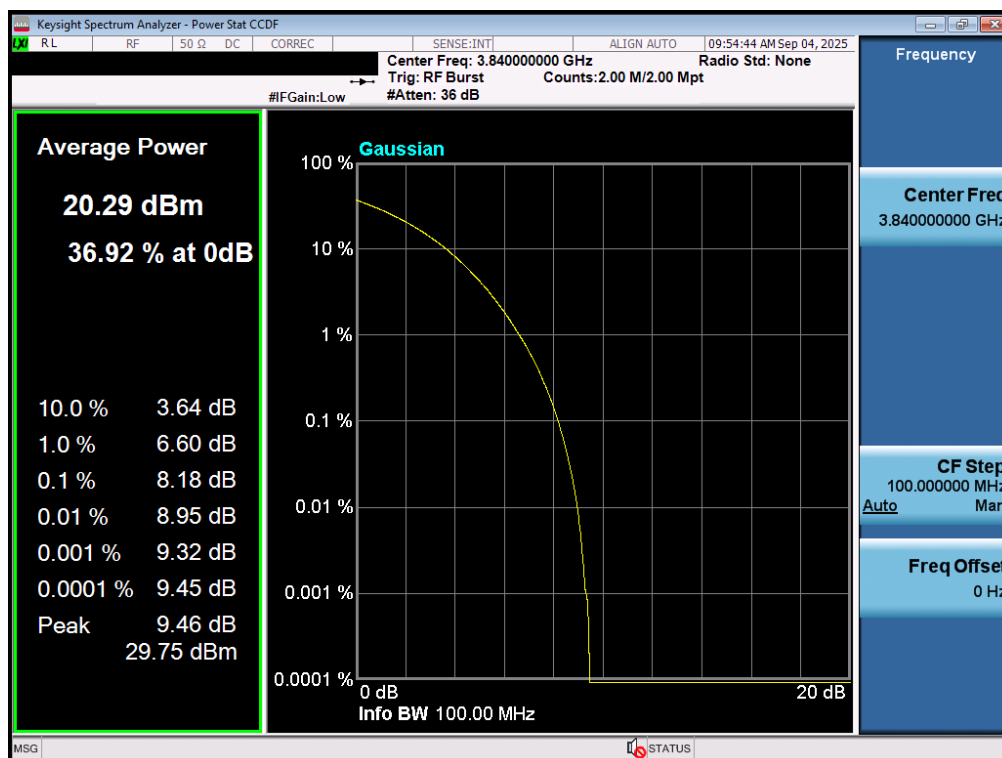


Plot 7-214. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant2 – C-Band – UL-MIMO)



Plot 7-215. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant2 – C-Band – UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-216. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant2 - C-Band - UL-MIMO)

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 163 of 180

7.7 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. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ 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 roughly set equal to the measured OBW of the signal for signals with continuous operation. 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.

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Setup

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

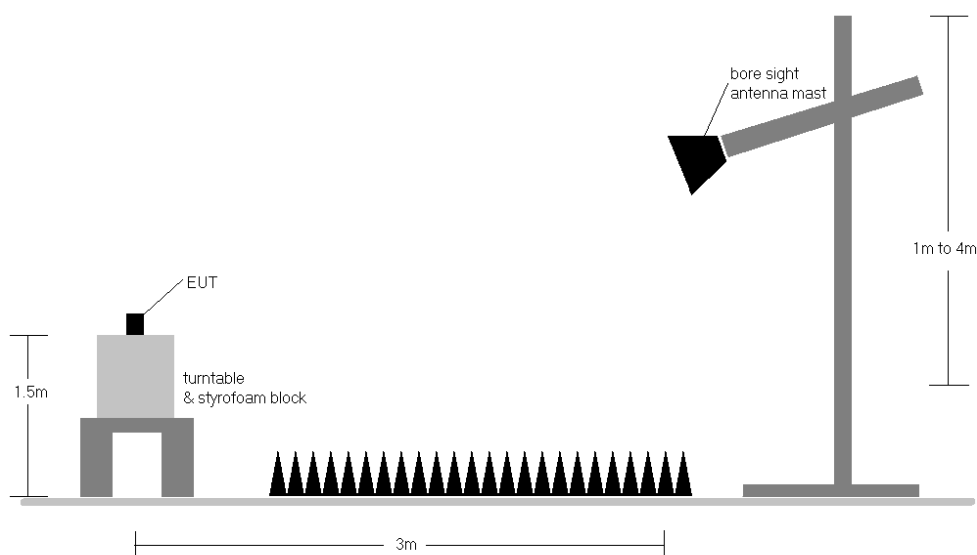


Figure 7-6. Radiated Test Setup >1GHz

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.

FCC ID: A3LSMS948U	PART 27 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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 271	19.47	25.93	0.392	30.00	-4.07
	QPSK	3500.01	H	166	345	6.46	1 / 271	19.55	26.01	0.399	30.00	-3.99
	16-QAM	3500.01	H	166	345	6.46	1 / 271	18.88	25.34	0.342	30.00	-4.66
90 MHz	$\pi/2$ BPSK	3495.00	H	166	345	6.46	1 / 243	19.38	25.83	0.383	30.00	-4.17
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 243	19.43	25.89	0.389	30.00	-4.11
	$\pi/2$ BPSK	3504.99	H	166	345	6.47	1 / 243	19.56	26.02	0.400	30.00	-3.98
	QPSK	3495.00	H	166	345	6.46	1 / 243	19.44	25.89	0.389	30.00	-4.11
	QPSK	3500.01	H	166	345	6.46	1 / 243	19.53	25.99	0.398	30.00	-4.01
	QPSK	3504.99	H	166	345	6.47	1 / 243	19.56	26.02	0.400	30.00	-3.98
80 MHz	16-QAM	3500.01	H	166	345	6.46	1 / 243	18.96	25.42	0.349	30.00	-4.58
	$\pi/2$ BPSK	3490.02	H	166	345	6.45	1 / 215	19.47	25.92	0.391	30.00	-4.08
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 215	19.43	25.89	0.389	30.00	-4.11
	$\pi/2$ BPSK	3510.00	H	166	345	6.47	1 / 215	19.45	25.92	0.391	30.00	-4.08
	QPSK	3490.02	H	166	345	6.45	1 / 215	19.53	25.98	0.397	30.00	-4.02
	QPSK	3500.01	H	166	345	6.46	1 / 215	19.49	25.95	0.394	30.00	-4.05
70 MHz	QPSK	3510.00	H	166	345	6.47	1 / 215	19.47	25.94	0.393	30.00	-4.06
	16-QAM	3490.02	H	166	345	6.45	1 / 215	18.90	25.35	0.343	30.00	-4.65
	$\pi/2$ BPSK	3485.01	H	166	345	6.45	1 / 187	19.35	25.79	0.380	30.00	-4.21
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 187	19.39	25.85	0.385	30.00	-4.15
	$\pi/2$ BPSK	3514.98	H	166	345	6.47	1 / 187	19.44	25.91	0.390	30.00	-4.09
	QPSK	3485.01	H	166	345	6.45	1 / 187	19.40	25.84	0.384	30.00	-4.16
60 MHz	QPSK	3500.01	H	166	345	6.46	1 / 187	19.42	25.88	0.388	30.00	-4.12
	QPSK	3514.98	H	166	345	6.47	1 / 187	19.54	26.01	0.399	30.00	-3.99
	16-QAM	3514.98	H	166	345	6.47	1 / 187	18.89	25.36	0.344	30.00	-4.64
	$\pi/2$ BPSK	3480.00	H	166	345	6.44	1 / 160	19.51	25.95	0.394	30.00	-4.05
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 160	19.45	25.91	0.390	30.00	-4.09
	$\pi/2$ BPSK	3519.99	H	166	345	6.48	1 / 160	19.58	26.05	0.403	30.00	-3.95
50 MHz	QPSK	3480.00	H	166	345	6.44	1 / 160	19.60	26.04	0.402	30.00	-3.96
	QPSK	3500.01	H	166	345	6.46	1 / 160	19.54	26.00	0.399	30.00	-4.00
	QPSK	3519.99	H	166	345	6.48	1 / 160	19.62	26.09	0.407	30.00	-3.91
	16-QAM	3519.99	H	166	345	6.48	1 / 160	18.90	25.37	0.345	30.00	-4.63
	$\pi/2$ BPSK	3475.02	H	166	345	6.43	1 / 66	19.65	26.08	0.406	30.00	-3.92
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 66	19.72	26.18	0.415	30.00	-3.82
40 MHz	$\pi/2$ BPSK	3525.00	H	166	345	6.48	1 / 66	19.80	26.27	0.424	30.00	-3.73
	QPSK	3475.02	H	166	345	6.43	1 / 66	19.73	26.16	0.413	30.00	-3.84
	QPSK	3500.01	H	166	345	6.46	1 / 131	19.76	26.22	0.419	30.00	-3.78
	QPSK	3525.00	H	166	345	6.48	1 / 1	19.76	26.23	0.420	30.00	-3.77
	16-QAM	3475.02	H	166	345	6.43	1 / 66	19.09	25.52	0.357	30.00	-4.48
	16-QAM	3500.01	H	166	345	6.46	1 / 131	19.17	25.63	0.366	30.00	-4.37
30 MHz	16-QAM	3525.00	H	166	345	6.48	1 / 66	19.13	25.60	0.363	30.00	-4.40
	$\pi/2$ BPSK	3470.01	H	166	345	6.43	1 / 53	19.56	25.98	0.397	30.00	-4.02
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 104	19.60	26.06	0.404	30.00	-3.94
	$\pi/2$ BPSK	3529.98	H	166	345	6.48	1 / 1	19.67	26.15	0.413	30.00	-3.85
	QPSK	3470.01	H	166	345	6.43	1 / 53	19.59	26.01	0.399	30.00	-3.99
	QPSK	3500.01	H	166	345	6.46	1 / 104	19.63	26.09	0.407	30.00	-3.91
25 MHz	QPSK	3529.98	H	166	345	6.48	1 / 1	19.70	26.18	0.415	30.00	-3.82
	16-QAM	3529.98	H	166	345	6.48	1 / 53	19.10	25.58	0.362	30.00	-4.42
	$\pi/2$ BPSK	3465.00	H	166	345	6.42	1 / 76	19.55	25.97	0.396	30.00	-4.03
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 1	19.63	26.09	0.407	30.00	-3.91
	$\pi/2$ BPSK	3534.99	H	166	345	6.48	1 / 76	19.71	26.19	0.416	30.00	-3.81
	QPSK	3465.00	H	166	345	6.42	1 / 1	19.56	25.98	0.397	30.00	-4.02
20 MHz	QPSK	3500.01	H	166	345	6.46	1 / 76	19.69	26.15	0.413	30.00	-3.85
	QPSK	3534.99	H	166	345	6.48	1 / 76	19.79	26.27	0.424	30.00	-3.73
	16-QAM	3534.99	H	166	345	6.48	1 / 76	19.03	25.51	0.356	30.00	-4.49
	$\pi/2$ BPSK	3462.51	H	166	345	6.42	1 / 63	19.61	26.02	0.400	30.00	-3.98
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 63	19.63	26.09	0.407	30.00	-3.91
	$\pi/2$ BPSK	3537.48	H	166	345	6.48	1 / 1	19.69	26.17	0.414	30.00	-3.83
15 MHz	QPSK	3462.51	H	166	345	6.42	1 / 63	19.64	26.05	0.403	30.00	-3.95
	QPSK	3500.01	H	166	345	6.46	1 / 63	19.67	26.13	0.411	30.00	-3.87
	QPSK	3537.48	H	166	345	6.48	1 / 1	19.74	26.22	0.419	30.00	-3.78
	16-QAM	3537.48	H	166	345	6.48	1 / 1	19.10	25.58	0.362	30.00	-4.42
	$\pi/2$ BPSK	3460.02	H	166	345	6.42	1 / 49	19.21	25.62	0.365	30.00	-4.38
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 1	19.28	25.74	0.375	30.00	-4.26
10 MHz	$\pi/2$ BPSK	3540.00	H	166	345	6.49	1 / 1	19.34	25.82	0.382	30.00	-4.18
	QPSK	3460.02	H	166	345	6.42	1 / 49	19.24	25.65	0.368	30.00	-4.35
	QPSK	3500.01	H	166	345	6.46	1 / 49	19.33	25.79	0.380	30.00	-4.21
	QPSK	3540.00	H	166	345	6.49	1 / 1	19.40	25.88	0.388	30.00	-4.12
	16-QAM	3540.00	H	166	345	6.49	1 / 1	18.74	25.22	0.333	30.00	-4.78
	$\pi/2$ BPSK	3457.50	H	166	345	6.41	1 / 36	19.41	25.82	0.382	30.00	-4.18
100 MHz	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 36	19.33	25.79	0.380	30.00	-4.21
	$\pi/2$ BPSK	3542.49	H	166	345	6.49	1 / 36	19.36	25.84	0.384	30.00	-4.16
	QPSK	3457.50	H	166	345	6.41	1 / 36	19.45	25.86	0.386	30.00	-4.14
	QPSK	3500.01	H	166	345	6.46	1 / 19	19.34	25.80	0.381	30.00	-4.20
	QPSK	3542.49	H	166	345	6.49	1 / 36	19.49	25.97	0.396	30.00	-4.03
	16-QAM	3542.49	H	166	345	6.49	1 / 36	18.83	25.31	0.340	30.00	-4.69
100 MHz	$\pi/2$ BPSK	3455.01	H	166	345	6.41	1 / 22	19.21	25.61	0.364	30.00	-4.39
	$\pi/2$ BPSK	3500.01	H	166	345	6.46	1 / 1	19.33	25.79	0.380	30.00	-4.21
	$\pi/2$ BPSK	3544.98	H	166	345	6.49	1 / 1	19.41	25.89	0.389	30.00	-4.11
	QPSK	3455.01	H	166	345	6.41	1 / 1	19.24	25.64	0.367	30.00	-4.36
100 MHz	QPSK	3500.01	H	166	345	6.46	1 / 22	19.40	25.86	0.386	30.00	-4.14
	QPSK	3544.98	H	166	345	6.49	1 / 22	19.45	25.93	0.392	30.00	-4.07
	16-QAM	3544.98	H	166	345	6.49	1 / 1	18.66	25.14	0.327	30.00	-4.86
	QPSK (CP-OFDM)	3500.0	H	166	345	6.46	1 / 136	18.66	25.12	0.325	30.00	-4.88
100 MHz	QPSK (Opposite Pol.)	3500.0	V	127	33	6.48	1 / 271	18.25	24.73	0.297	30.00	-5.27
	QPSK (WCP)	3500.0	H	178	345	6.46	1 / 271	19.00	25.46	0.352	30.00	-4.54

Table 7-38. Radiated Power Test Results - Ant1 - DoD Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 166 of 180

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	201	325	7.03	1 / 1	19.44	26.47	0.444	30.00	-3.53
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.72	26.85	0.484	30.00	-3.15
	$\pi/2$ BPSK	3930.00	H	159	334	7.39	1 / 1	18.66	26.05	0.403	30.00	-3.95
	QPSK	3750.00	H	201	325	7.03	1 / 1	19.66	26.69	0.467	30.00	-3.31
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.77	26.90	0.490	30.00	-3.10
	QPSK	3930.00	H	159	334	7.39	1 / 1	18.46	25.85	0.385	30.00	-4.15
90 MHz	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.86	25.99	0.397	30.00	-4.01
	$\pi/2$ BPSK	3745.02	H	201	325	7.03	1 / 243	19.23	26.26	0.423	30.00	-3.74
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.61	26.74	0.472	30.00	-3.26
	$\pi/2$ BPSK	3934.98	H	159	334	7.40	1 / 1	18.65	26.05	0.403	30.00	-3.95
	QPSK	3745.02	H	201	325	7.03	1 / 1	19.72	26.75	0.473	30.00	-3.25
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.78	26.91	0.491	30.00	-3.09
80 MHz	QPSK	3934.98	H	159	334	7.40	1 / 1	18.66	26.06	0.404	30.00	-3.94
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.89	26.02	0.400	30.00	-3.98
	$\pi/2$ BPSK	3740.01	H	201	325	7.03	1 / 1	19.28	26.31	0.428	30.00	-3.69
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.51	26.64	0.461	30.00	-3.36
	$\pi/2$ BPSK	3939.99	H	159	334	7.41	1 / 1	18.50	25.90	0.389	30.00	-4.10
	QPSK	3740.01	H	201	325	7.03	1 / 1	19.66	26.69	0.467	30.00	-3.31
70 MHz	QPSK	3840.00	H	133	335	7.13	1 / 1	19.77	26.90	0.490	30.00	-3.10
	QPSK	3939.99	H	159	334	7.41	1 / 1	18.45	25.85	0.385	30.00	-4.15
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.86	25.99	0.397	30.00	-4.01
	$\pi/2$ BPSK	3735.00	H	201	325	7.03	1 / 1	19.14	26.17	0.414	30.00	-3.83
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.53	26.66	0.463	30.00	-3.34
	$\pi/2$ BPSK	3945.00	H	159	334	7.41	1 / 187	18.26	25.67	0.369	30.00	-4.33
60 MHz	QPSK	3735.00	H	201	325	7.03	1 / 187	19.67	26.70	0.468	30.00	-3.30
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.78	26.91	0.491	30.00	-3.09
	QPSK	3945.00	H	159	334	7.41	1 / 1	18.30	25.71	0.373	30.00	-4.29
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.86	25.99	0.397	30.00	-4.01
	$\pi/2$ BPSK	3730.02	H	201	325	7.03	1 / 1	19.26	26.29	0.426	30.00	-3.71
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.46	26.59	0.456	30.00	-3.41
50 MHz	$\pi/2$ BPSK	3949.98	H	159	334	7.42	1 / 1	18.32	25.73	0.374	30.00	-4.27
	QPSK	3730.02	H	201	325	7.03	1 / 1	19.71	26.74	0.472	30.00	-3.26
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.56	26.69	0.467	30.00	-3.31
	QPSK	3949.98	H	159	334	7.42	1 / 1	18.27	25.68	0.370	30.00	-4.32
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.64	25.77	0.377	30.00	-4.23
	$\pi/2$ BPSK	3725.01	H	201	325	7.03	1 / 66	19.26	26.29	0.426	30.00	-3.71
40 MHz	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.69	26.82	0.481	30.00	-3.18
	$\pi/2$ BPSK	3954.99	H	159	334	7.43	1 / 66	18.44	25.86	0.386	30.00	-4.14
	QPSK	3725.01	H	201	325	7.03	1 / 66	19.73	26.76	0.475	30.00	-3.24
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.87	27.00	0.501	30.00	-3.00
	QPSK	3954.99	H	159	334	7.43	1 / 1	18.31	25.73	0.374	30.00	-4.27
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.95	26.08	0.405	30.00	-3.92
30 MHz	$\pi/2$ BPSK	3720.00	H	201	325	7.03	1 / 1	19.31	26.34	0.431	30.00	-3.66
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 53	19.43	26.56	0.453	30.00	-3.44
	$\pi/2$ BPSK	3960.00	H	159	334	7.44	1 / 1	18.21	25.64	0.367	30.00	-4.36
	QPSK	3720.00	H	201	325	7.03	1 / 53	19.73	26.76	0.475	30.00	-3.24
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.64	26.77	0.475	30.00	-3.23
	QPSK	3960.00	H	159	334	7.44	1 / 1	18.15	25.58	0.362	30.00	-4.42
25 MHz	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.70	25.83	0.383	30.00	-4.17
	$\pi/2$ BPSK	3715.02	H	201	325	7.03	1 / 76	19.22	26.25	0.422	30.00	-3.75
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.54	26.67	0.464	30.00	-3.33
	$\pi/2$ BPSK	3964.98	H	159	334	7.45	1 / 1	18.31	25.75	0.376	30.00	-4.25
	QPSK	3715.02	H	201	325	7.03	1 / 39	19.67	26.70	0.468	30.00	-3.30
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.68	26.81	0.480	30.00	-3.19
20 MHz	QPSK	3964.98	H	159	334	7.45	1 / 1	18.27	25.71	0.373	30.00	-4.29
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.71	25.84	0.384	30.00	-4.16
	$\pi/2$ BPSK	3712.50	H	166	345	7.03	1 / 32	19.37	26.40	0.437	30.00	-3.60
	$\pi/2$ BPSK	3840.00	H	166	345	7.13	1 / 1	19.56	26.69	0.467	30.00	-3.31
	$\pi/2$ BPSK	3967.50	H	166	345	7.45	1 / 1	18.26	25.71	0.373	30.00	-4.29
	QPSK	3712.50	H	166	345	7.03	1 / 1	19.84	26.87	0.487	30.00	-3.13
15 MHz	QPSK	3840.00	H	166	345	7.13	1 / 1	19.76	26.89	0.489	30.00	-3.11
	QPSK	3967.50	H	166	345	7.45	1 / 1	18.16	25.61	0.364	30.00	-4.39
	16-QAM	3840.00	H	166	345	7.13	1 / 1	18.89	26.02	0.400	30.00	-3.98
	$\pi/2$ BPSK	3710.01	H	201	325	7.03	1 / 25	19.18	26.21	0.418	30.00	-3.79
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.48	26.61	0.458	30.00	-3.39
	$\pi/2$ BPSK	3969.99	H	159	334	7.46	1 / 25	18.14	25.59	0.363	30.00	-4.41
10 MHz	QPSK	3710.01	H	201	325	7.03	1 / 25	19.59	26.62	0.460	30.00	-3.38
	QPSK	3840.00	H	133	335	7.13	1 / 1	19.65	26.78	0.476	30.00	-3.22
	QPSK	3969.99	H	159	334	7.46	1 / 1	18.09	25.54	0.358	30.00	-4.46
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.76	25.89	0.388	30.00	-4.11
	$\pi/2$ BPSK	3707.52	H	201	325	7.03	1 / 1	19.18	26.21	0.418	30.00	-3.79
	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.55	26.68	0.465	30.00	-3.32
100 MHz	$\pi/2$ BPSK	3972.48	H	159	334	7.46	1 / 1	18.19	25.65	0.368	30.00	-4.35
	QPSK	3707.52	H	201	325	7.03	1 / 36	19.61	26.64	0.462	30.00	-3.36
	QPSK	3840.00	H	133	335	7.13	1 / 36	19.61	26.74	0.472	30.00	-3.26
	QPSK	3972.48	H	159	334	7.46	1 / 1	18.16	25.62	0.365	30.00	-4.38
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.78	25.91	0.390	30.00	-4.09
	$\pi/2$ BPSK	3705.00	H	201	325	7.03	1 / 22	19.15	26.18	0.415	30.00	-3.82
100 MHz	$\pi/2$ BPSK	3840.00	H	133	335	7.13	1 / 1	19.44	26.57	0.454	30.00	-3.43
	$\pi/2$ BPSK	3975.00	H	159	334	7.47	1 / 22	18.14	25.60	0.363	30.00	-4.40
	QPSK	3705.00	H	201	325	7.03	1 / 22	19.58	26.61	0.458	30.00	-3.39
	QPSK	3840.00	H	133	335	7.13	1 / 22	19.64	26.77	0.475	30.00	-3.23
	QPSK	3975.00	H	159	334	7.47	1 / 22	18.13	25.59	0.363	30.00	-4.41
	16-QAM	3840.00	H	133	335	7.13	1 / 1	18.82	25.95	0.393	30.00	-4.05
100 MHz	QPSK (CP-OFDM)	3840.00	H	133	335	7.13	1 / 136	18.70	25.83	0.383	30.00	-4.17
	QPSK (Opposite Pol.)	3840.00	V	378	331	7.13	1 / 1	18.18	25.31	0.340	30.00	-4.69
	QPSK (WCP)	3840.00	H	188	351	7.13	1 / 1	17.03	24.16	0.261	30.00	-5.84

Table 7-39. Radiated Power Test Results - Ant1 - C-Band – Main

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 167 of 180

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 271	20.61	27.07	0.510	30.00	-2.93
	QPSK	3500.01	H	115	325	6.46	1 / 271	20.69	27.15	0.519	30.00	-2.85
	16-QAM	3500.01	H	115	325	6.46	1 / 271	19.70	26.16	0.413	30.00	-3.84
90 MHz	$\pi/2$ BPSK	3495.00	H	115	325	6.46	1 / 243	20.51	26.96	0.497	30.00	-3.04
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 243	20.48	26.94	0.495	30.00	-3.06
	$\pi/2$ BPSK	3504.99	H	115	325	6.47	1 / 243	20.46	26.92	0.493	30.00	-3.08
	QPSK	3495.00	H	115	325	6.46	1 / 243	20.64	27.09	0.512	30.00	-2.91
	QPSK	3500.01	H	115	325	6.46	1 / 243	20.60	27.06	0.509	30.00	-2.94
	QPSK	3504.99	H	115	325	6.47	1 / 243	20.64	27.10	0.513	30.00	-2.90
	16-QAM	3504.99	H	115	325	6.47	1 / 243	19.57	26.03	0.401	30.00	-3.97
80 MHz	$\pi/2$ BPSK	3490.02	H	115	325	6.45	1 / 215	20.50	26.95	0.496	30.00	-3.05
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 215	20.51	26.97	0.498	30.00	-3.03
	$\pi/2$ BPSK	3510.00	H	115	325	6.47	1 / 215	20.60	27.07	0.510	30.00	-2.93
	QPSK	3490.02	H	115	325	6.45	1 / 215	20.71	27.16	0.521	30.00	-2.84
	QPSK	3500.01	H	115	325	6.46	1 / 215	20.72	27.18	0.523	30.00	-2.82
	QPSK	3510.00	H	115	325	6.47	1 / 215	20.78	27.25	0.531	30.00	-2.75
	16-QAM	3490.02	H	115	325	6.45	1 / 215	19.63	26.08	0.406	30.00	-3.92
70 MHz	$\pi/2$ BPSK	3485.01	H	115	325	6.45	1 / 1	20.76	27.20	0.525	30.00	-2.80
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 1	20.76	27.22	0.528	30.00	-2.78
	$\pi/2$ BPSK	3514.98	H	115	325	6.47	1 / 1	20.76	27.23	0.529	30.00	-2.77
	QPSK	3485.01	H	115	325	6.45	1 / 1	20.81	27.25	0.531	30.00	-2.75
	QPSK	3500.01	H	115	325	6.46	1 / 1	20.76	27.22	0.528	30.00	-2.78
	QPSK	3514.98	H	115	325	6.47	1 / 1	20.79	27.26	0.533	30.00	-2.74
	16-QAM	3500.01	H	115	325	6.46	1 / 94	19.91	26.37	0.434	30.00	-3.63
60 MHz	$\pi/2$ BPSK	3480.00	H	115	325	6.44	1 / 1	20.36	26.80	0.479	30.00	-3.20
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 1	20.37	26.83	0.482	30.00	-3.17
	$\pi/2$ BPSK	3519.99	H	115	325	6.48	1 / 1	20.58	27.05	0.508	30.00	-2.95
	QPSK	3480.00	H	115	325	6.44	1 / 1	20.53	26.97	0.498	30.00	-3.03
	QPSK	3500.01	H	115	325	6.46	1 / 160	20.53	26.99	0.501	30.00	-3.01
	QPSK	3519.99	H	115	325	6.48	1 / 1	20.62	27.09	0.512	30.00	-2.91
	16-QAM	3500.01	H	115	325	6.46	1 / 1	19.56	26.02	0.400	30.00	-3.98
50 MHz	$\pi/2$ BPSK	3475.02	H	115	325	6.43	1 / 1	20.54	26.97	0.498	30.00	-3.03
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 1	20.57	27.03	0.505	30.00	-2.97
	$\pi/2$ BPSK	3525.00	H	115	325	6.48	1 / 1	20.50	26.97	0.498	30.00	-3.03
	QPSK	3475.02	H	115	325	6.43	1 / 131	20.73	27.16	0.521	30.00	-2.84
	QPSK	3500.01	H	115	325	6.46	1 / 1	20.72	27.18	0.523	30.00	-2.82
	QPSK	3525.00	H	115	325	6.48	1 / 131	20.78	27.25	0.531	30.00	-2.75
	16-QAM	3525.00	H	115	325	6.48	1 / 1	19.81	26.28	0.425	30.00	-3.72
40 MHz	$\pi/2$ BPSK	3470.01	H	115	325	6.43	1 / 1	20.43	26.85	0.485	30.00	-3.15
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 1	20.45	26.91	0.491	30.00	-3.09
	$\pi/2$ BPSK	3529.98	H	115	325	6.48	1 / 1	20.36	26.84	0.484	30.00	-3.16
	QPSK	3470.01	H	115	325	6.43	1 / 1	20.64	27.06	0.509	30.00	-2.94
	QPSK	3500.01	H	115	325	6.46	1 / 1	20.58	27.04	0.506	30.00	-2.96
	QPSK	3529.98	H	115	325	6.48	1 / 1	20.68	27.16	0.521	30.00	-2.84
	16-QAM	3529.98	H	115	325	6.48	1 / 1	19.64	26.12	0.410	30.00	-3.88
30 MHz	$\pi/2$ BPSK	3465.00	H	115	325	6.42	1 / 76	20.50	26.92	0.493	30.00	-3.08
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 1	20.56	27.02	0.504	30.00	-2.98
	$\pi/2$ BPSK	3534.99	H	115	325	6.48	1 / 1	20.62	27.10	0.513	30.00	-2.90
	QPSK	3465.00	H	115	325	6.42	1 / 1	20.75	27.17	0.522	30.00	-2.83
	QPSK	3500.01	H	115	325	6.46	1 / 76	20.71	27.17	0.522	30.00	-2.83
	QPSK	3534.99	H	115	325	6.48	1 / 1	20.75	27.23	0.529	30.00	-2.77
	16-QAM	3500.01	H	115	325	6.46	1 / 1	19.81	26.27	0.424	30.00	-3.73
25 MHz	$\pi/2$ BPSK	3462.51	H	115	325	6.42	1 / 63	20.39	26.80	0.479	30.00	-3.20
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 63	20.56	27.02	0.504	30.00	-2.98
	$\pi/2$ BPSK	3537.48	H	115	325	6.48	1 / 1	20.49	26.97	0.498	30.00	-3.03
	QPSK	3462.51	H	115	325	6.42	1 / 63	20.63	27.04	0.506	30.00	-2.96
	QPSK	3500.01	H	115	325	6.46	1 / 63	20.83	27.29	0.536	30.00	-2.71
	QPSK	3537.48	H	115	325	6.48	1 / 63	20.84	27.32	0.540	30.00	-2.68
	16-QAM	3500.01	H	115	325	6.46	1 / 63	19.78	26.24	0.421	30.00	-3.76
20 MHz	$\pi/2$ BPSK	3460.02	H	115	325	6.42	1 / 49	20.33	26.74	0.473	30.00	-3.26
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 25	20.25	26.71	0.469	30.00	-3.29
	$\pi/2$ BPSK	3540.00	H	115	325	6.49	1 / 25	20.52	27.00	0.502	30.00	-3.00
	QPSK	3460.02	H	115	325	6.42	1 / 49	20.58	26.99	0.501	30.00	-3.01
	QPSK	3500.01	H	115	325	6.46	1 / 49	20.57	27.03	0.505	30.00	-2.97
	QPSK	3540.00	H	115	325	6.49	1 / 49	20.51	26.99	0.501	30.00	-3.01
	16-QAM	3540.00	H	115	325	6.49	1 / 25	19.56	26.04	0.402	30.00	-3.96
15 MHz	$\pi/2$ BPSK	3457.50	H	115	325	6.41	1 / 19	20.49	26.90	0.490	30.00	-3.10
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 19	20.50	26.96	0.497	30.00	-3.04
	$\pi/2$ BPSK	3542.49	H	115	325	6.49	1 / 1	20.45	26.93	0.494	30.00	-3.07
	QPSK	3457.50	H	115	325	6.41	1 / 1	20.66	27.07	0.510	30.00	-2.93
	QPSK	3500.01	H	115	325	6.46	1 / 19	20.74	27.20	0.525	30.00	-2.80
	QPSK	3542.49	H	115	325	6.49	1 / 1	20.70	27.18	0.523	30.00	-2.82
	16-QAM	3542.49	H	115	325	6.49	1 / 19	19.72	26.20	0.417	30.00	-3.80
10 MHz	$\pi/2$ BPSK	3455.01	H	115	325	6.41	1 / 12	20.53	26.93	0.494	30.00	-3.07
	$\pi/2$ BPSK	3500.01	H	115	325	6.46	1 / 12	20.38	26.84	0.484	30.00	-3.16
	$\pi/2$ BPSK	3544.98	H	115	325	6.49	1 / 12	20.39	26.87	0.487	30.00	-3.13
	QPSK	3455.01	H	115	325	6.41	1 / 12	20.68	27.08	0.511	30.00	-2.92
	QPSK	3500.01	H	115	325	6.46	1 / 12	20.56	27.02	0.504	30.00	-2.98
	QPSK	3544.98	H	115	325	6.49	1 / 12	20.63	27.11	0.515	30.00	-2.89
	16-QAM	3500.01	H	115	325	6.46	1 / 12	19.72	26.18	0.415	30.00	-3.82
100 MHz	QPSK (CP-OFDM)	3500.0	H	115	325	6.46	1 / 1	19.12	25.58	0.362	30.00	-4.42
	QPSK (Opposite Pol.)	3500.0	V	127	45	6.48	1 / 1	18.82	25.30	0.339	30.00	-4.70
	QPSK (WCP)	3500.0	H	117	349	6.46	1 / 1	19.55	26.01	0.399	30.00	-3.99

Table 7-40. Radiated Power Test Results - DoD Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 168 of 180

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	127	313	7.01	1 / 1	21.10	28.11	0.648	30.00	-1.89
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.57	28.72	0.745	30.00	-1.28
	$\pi/2$ BPSK	3930.00	H	112	321	7.39	1 / 1	20.19	27.58	0.573	30.00	-2.42
	QPSK	3750.00	H	127	313	7.01	1 / 1	21.07	28.08	0.643	30.00	-1.92
	QPSK	3840.00	H	117	325	7.15	1 / 1	21.25	28.40	0.692	30.00	-1.60
	QPSK	3930.00	H	112	321	7.39	1 / 1	20.56	27.95	0.624	30.00	-2.05
90 MHz	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.55	27.70	0.589	30.00	-2.30
	$\pi/2$ BPSK	3745.02	H	127	313	7.00	1 / 1	20.91	27.91	0.619	30.00	-2.09
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.39	28.54	0.715	30.00	-1.46
	$\pi/2$ BPSK	3934.98	H	112	321	7.40	1 / 1	19.94	27.34	0.542	30.00	-2.66
	QPSK	3745.02	H	127	313	7.00	1 / 1	20.97	27.97	0.627	30.00	-2.03
	QPSK	3840.00	H	117	325	7.15	1 / 1	21.14	28.29	0.675	30.00	-1.71
80 MHz	QPSK	3934.98	H	112	321	7.40	1 / 1	20.41	27.81	0.604	30.00	-2.19
	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.45	27.60	0.576	30.00	-2.40
	$\pi/2$ BPSK	3740.01	H	127	313	6.99	1 / 1	21.01	27.99	0.630	30.00	-2.01
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.33	28.48	0.705	30.00	-1.52
	$\pi/2$ BPSK	3939.99	H	112	321	7.41	1 / 1	19.88	27.29	0.536	30.00	-2.71
	QPSK	3740.01	H	127	313	6.99	1 / 1	21.03	28.01	0.633	30.00	-1.99
70 MHz	QPSK	3840.00	H	117	325	7.15	1 / 1	21.18	28.33	0.681	30.00	-1.67
	QPSK	3939.99	H	112	321	7.41	1 / 1	20.43	27.84	0.608	30.00	-2.16
	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.53	27.68	0.587	30.00	-2.32
	$\pi/2$ BPSK	3735.00	H	127	313	6.97	1 / 94	21.06	28.03	0.636	30.00	-1.97
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 94	21.38	28.53	0.713	30.00	-1.47
	$\pi/2$ BPSK	3945.00	H	112	321	7.42	1 / 94	19.93	27.35	0.543	30.00	-2.65
60 MHz	QPSK	3735.00	H	127	313	6.97	1 / 94	21.06	28.03	0.636	30.00	-1.97
	QPSK	3840.00	H	117	325	7.15	1 / 94	21.12	28.27	0.672	30.00	-1.73
	QPSK	3945.00	H	112	321	7.42	1 / 94	20.43	27.85	0.610	30.00	-2.15
	16-QAM	3840.00	H	117	325	7.15	1 / 94	20.70	27.85	0.610	30.00	-2.15
	$\pi/2$ BPSK	3730.02	H	127	313	6.96	1 / 1	21.36	28.31	0.678	30.00	-1.69
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.57	28.72	0.745	30.00	-1.28
50 MHz	$\pi/2$ BPSK	3949.98	H	112	321	7.43	1 / 1	20.15	27.57	0.572	30.00	-2.43
	QPSK	3730.02	H	127	313	6.96	1 / 1	21.17	28.12	0.649	30.00	-1.88
	QPSK	3840.00	H	117	325	7.15	1 / 1	21.24	28.39	0.691	30.00	-1.61
	QPSK	3949.98	H	112	321	7.43	1 / 1	20.51	27.93	0.621	30.00	-2.07
	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.75	27.90	0.617	30.00	-2.10
	$\pi/2$ BPSK	3725.01	H	127	313	6.94	1 / 1	21.18	28.12	0.649	30.00	-1.88
40 MHz	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.53	28.68	0.738	30.00	-1.32
	$\pi/2$ BPSK	3954.99	H	112	321	7.43	1 / 1	19.70	27.13	0.517	30.00	-2.87
	QPSK	3725.01	H	127	313	6.94	1 / 1	21.21	28.15	0.654	30.00	-1.85
	QPSK	3840.00	H	117	325	7.15	1 / 1	21.39	28.54	0.715	30.00	-1.46
	QPSK	3954.99	H	112	321	7.43	1 / 131	20.35	27.78	0.600	30.00	-2.22
	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.74	27.89	0.616	30.00	-2.11
30 MHz	$\pi/2$ BPSK	3720.00	H	127	313	6.93	1 / 1	21.02	27.94	0.623	30.00	-2.06
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.41	28.56	0.718	30.00	-1.44
	$\pi/2$ BPSK	3960.00	H	112	321	7.44	1 / 1	19.50	26.94	0.494	30.00	-3.06
	QPSK	3720.00	H	127	313	6.93	1 / 1	21.23	28.15	0.654	30.00	-1.85
	QPSK	3840.00	H	117	325	7.15	1 / 104	21.15	28.30	0.677	30.00	-1.70
	QPSK	3960.00	H	112	321	7.44	1 / 1	20.15	27.59	0.574	30.00	-2.41
25 MHz	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.35	27.50	0.563	30.00	-2.50
	$\pi/2$ BPSK	3715.02	H	127	313	6.91	1 / 76	21.07	27.98	0.629	30.00	-2.02
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.50	28.65	0.733	30.00	-1.35
	$\pi/2$ BPSK	3964.98	H	112	321	7.45	1 / 1	19.76	27.21	0.526	30.00	-2.79
	QPSK	3715.02	H	127	313	6.91	1 / 1	21.25	28.16	0.655	30.00	-1.84
	QPSK	3840.00	H	117	325	7.15	1 / 1	21.32	28.47	0.704	30.00	-1.53
20 MHz	QPSK	3964.98	H	112	321	7.45	1 / 1	20.27	27.72	0.592	30.00	-2.28
	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.64	27.79	0.602	30.00	-2.21
	$\pi/2$ BPSK	3712.50	H	115	325	6.91	1 / 32	21.07	27.97	0.627	30.00	-2.03
	$\pi/2$ BPSK	3840.00	H	115	325	7.15	1 / 32	21.38	28.53	0.713	30.00	-1.47
	$\pi/2$ BPSK	3967.50	H	115	325	7.46	1 / 32	19.74	27.19	0.524	30.00	-2.81
	QPSK	3712.50	H	115	325	6.91	1 / 32	21.27	28.17	0.657	30.00	-1.83
15 MHz	QPSK	3840.00	H	115	325	7.15	1 / 1	21.27	28.42	0.696	30.00	-1.58
	QPSK	3967.50	H	115	325	7.46	1 / 1	20.31	27.76	0.597	30.00	-2.24
	16-QAM	3840.00	H	115	325	7.15	1 / 32	20.53	27.68	0.587	30.00	-2.32
	$\pi/2$ BPSK	3710.01	H	127	313	6.90	1 / 25	21.15	28.05	0.639	30.00	-1.95
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 25	21.39	28.54	0.715	30.00	-1.46
	$\pi/2$ BPSK	3969.99	H	112	321	7.46	1 / 1	19.74	27.20	0.525	30.00	-2.80
10 MHz	QPSK	3710.01	H	127	313	6.90	1 / 25	21.15	28.05	0.639	30.00	-1.95
	QPSK	3840.00	H	117	325	7.15	1 / 25	21.28	28.43	0.697	30.00	-1.57
	QPSK	3969.99	H	112	321	7.46	1 / 25	20.42	27.88	0.614	30.00	-2.12
	16-QAM	3840.00	H	117	325	7.15	1 / 1	20.57	27.72	0.592	30.00	-2.28
	$\pi/2$ BPSK	3707.52	H	127	313	6.89	1 / 1	21.07	27.96	0.626	30.00	-2.04
	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.51	28.66	0.735	30.00	-1.34
100 MHz	$\pi/2$ BPSK	3972.48	H	112	321	7.46	1 / 1	19.72	27.18	0.523	30.00	-2.82
	QPSK	3707.52	H	127	313	6.89	1 / 1	21.27	28.16	0.655	30.00	-1.84
	QPSK	3840.00	H	117	325	7.15	1 / 1	21.35	28.50	0.708	30.00	-1.50
	QPSK	3972.48	H	112	321	7.46	1 / 1	20.38	27.84	0.608	30.00	-2.16
	16-QAM	3840.00	H	117	325	7.15	1 / 36	20.73	27.88	0.614	30.00	-2.12
	$\pi/2$ BPSK	3705.00	H	127	313	6.89	1 / 12	21.17	28.05	0.639	30.00	-1.95
100 MHz	$\pi/2$ BPSK	3840.00	H	117	325	7.15	1 / 1	21.22	28.37	0.688	30.00	-1.63
	$\pi/2$ BPSK	3975.00	H	112	321	7.47	1 / 12	19.75	27.22	0.527	30.00	-2.78
	QPSK	3705.00	H	127	313	6.89	1 / 12	21.23	28.11	0.648	30.00	-1.89
	QPSK	3840.00	H	117	325	7.15	1 / 12	21.26	28.41	0.694	30.00	-1.59
	QPSK	3975.00	H	112	321	7.47	1 / 12	20.39	27.86	0.611	30.00	-2.14
	16-QAM	3840.00	H	117	325	7.15	1 / 12	20.59	27.74	0.595	30.00	-2.26
100 MHz	QPSK (CP-OFDM)	3840.00	H	117	325	7.15	1 / 1	19.52	26.67	0.465	30.00	-3.33
	QPSK (Opposite Pol.)	3840.00	V	248	80	7.13	1 / 1	18.55	25.88	0.370	30.00	-4.32
	QPSK (WCP)	3840.00	H	117	349	7.15	1 / 1	18.31	25.46	0.352	30.00	-4.54

Table 7-41. Radiated Power Test Results – C-Band – UL-MIMO

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 169 of 180



7.8 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 = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: A3LSMS948U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508250078-10.A3L	Test Dates: 09/02/2025 - 10/10/2025	EUT Type: Portable Handset	Page 170 of 180

Test Setup

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

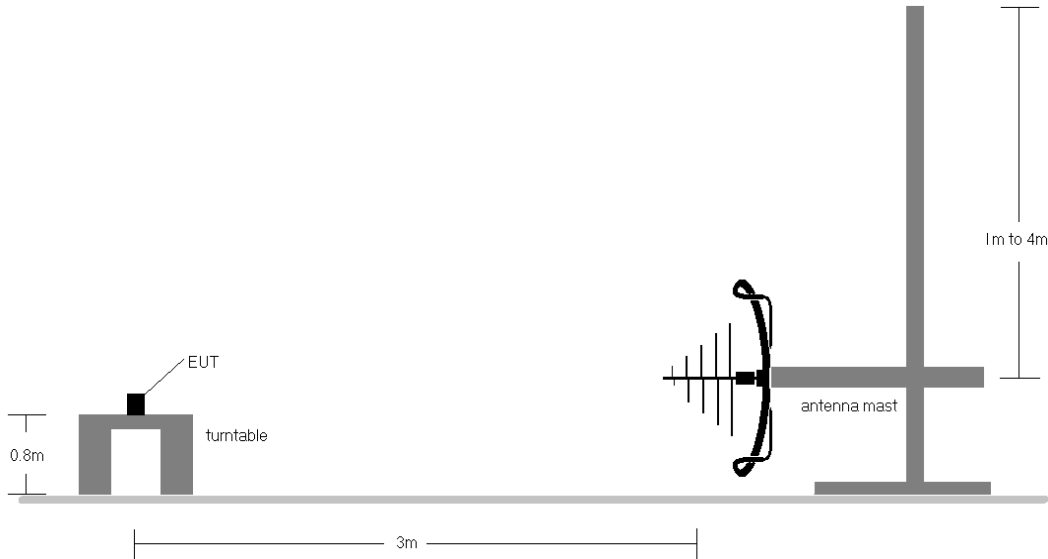


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

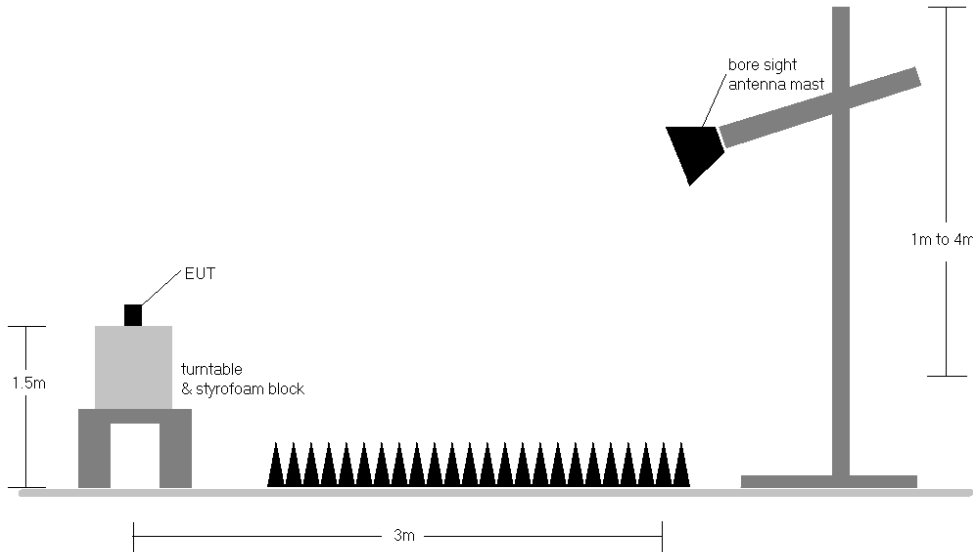


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

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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:
 - b) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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, is 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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