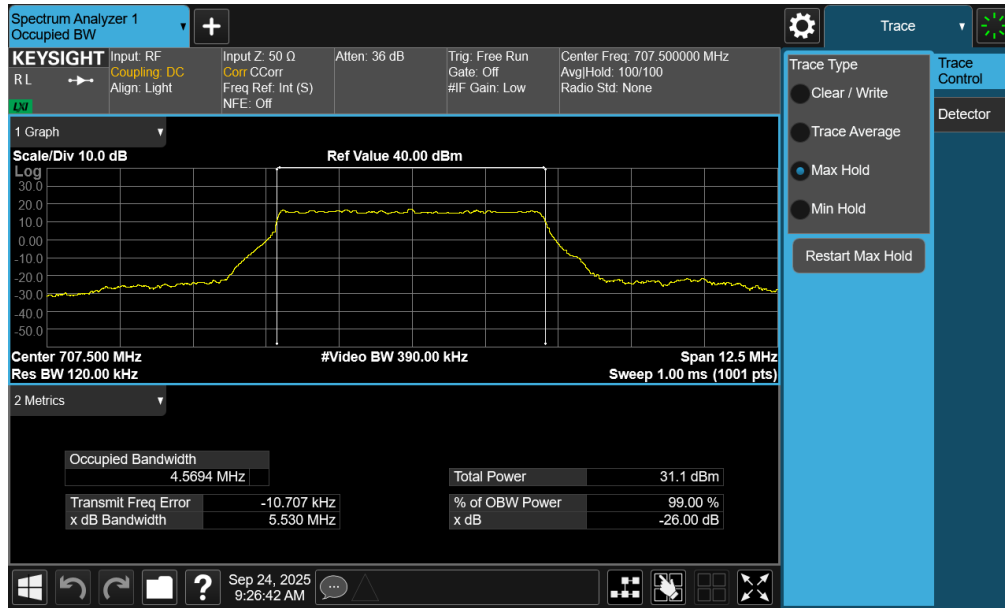
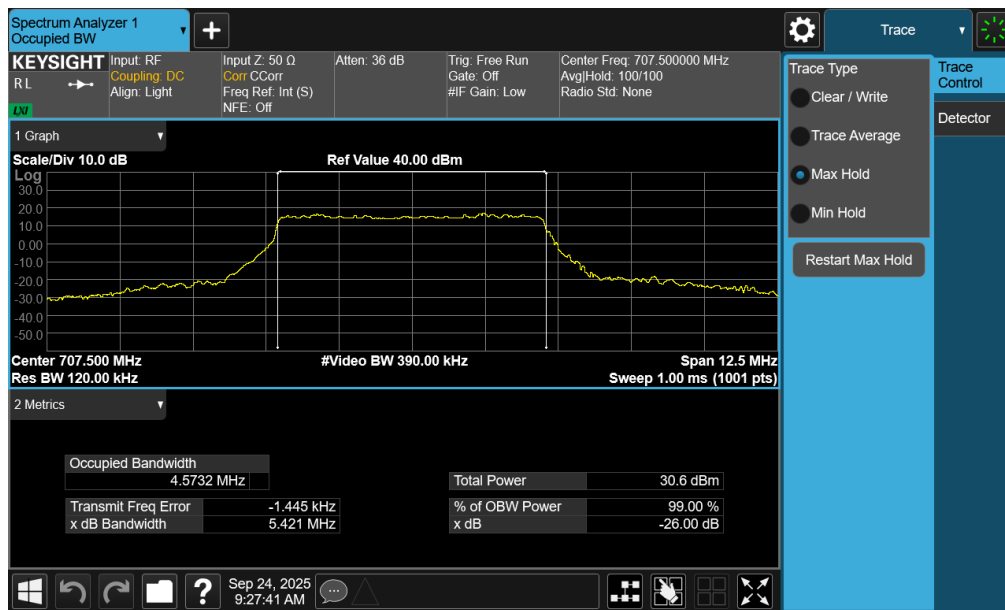


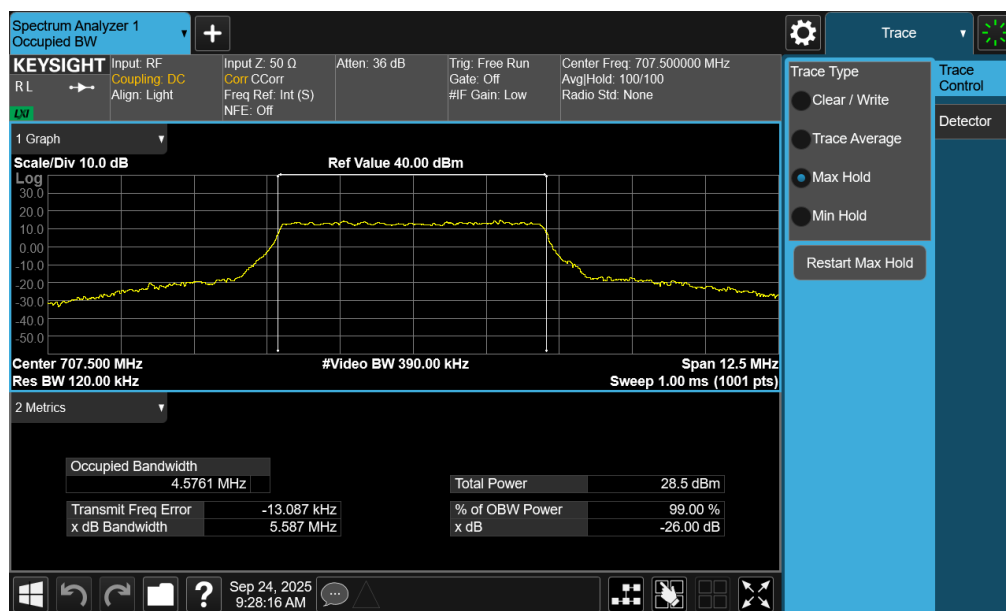


Plot 7-87. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-88. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM QPSK - Full RB – ANT2)

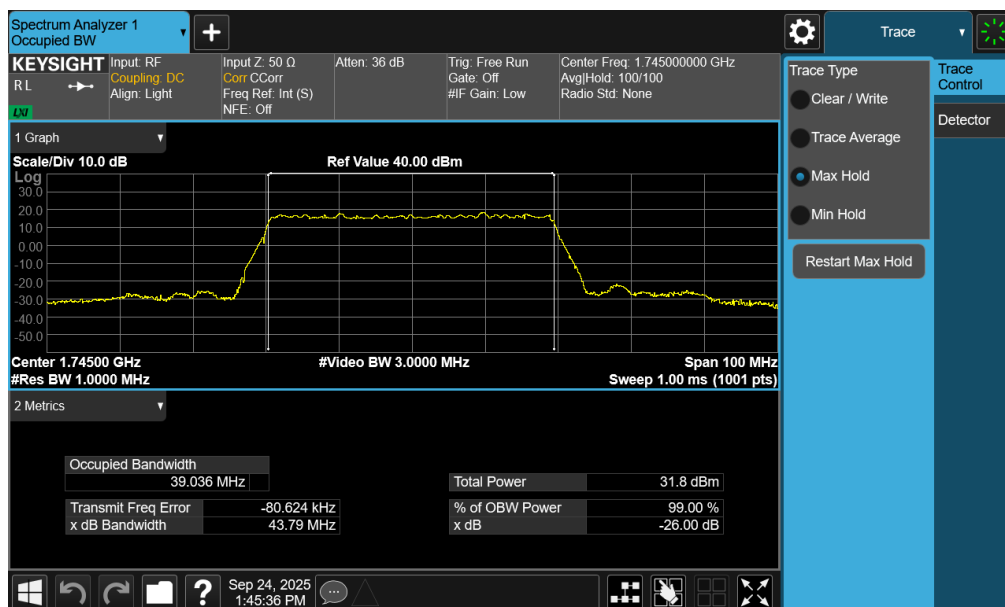
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 76 of 222



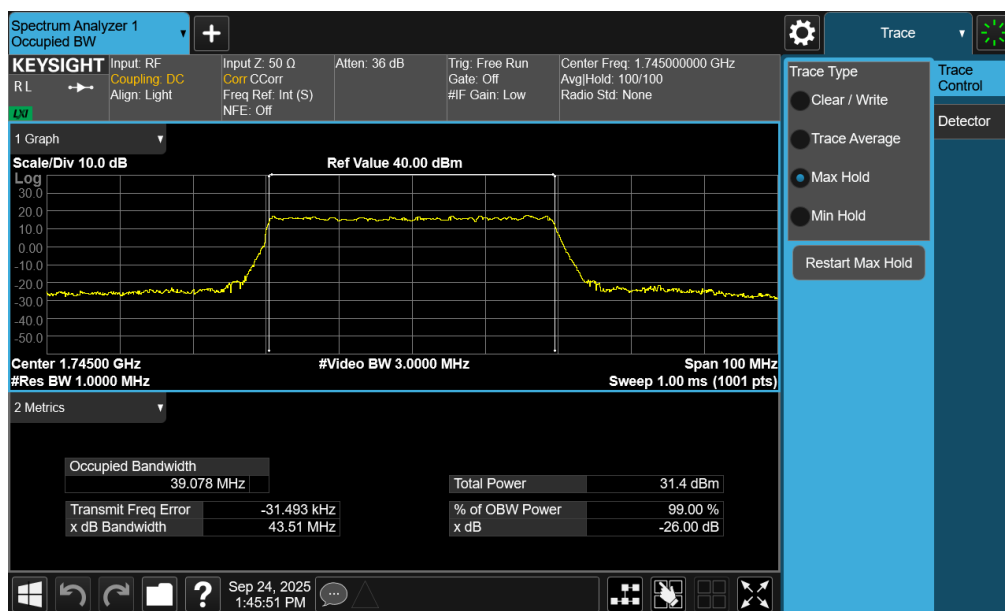
Plot 7-89. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT2

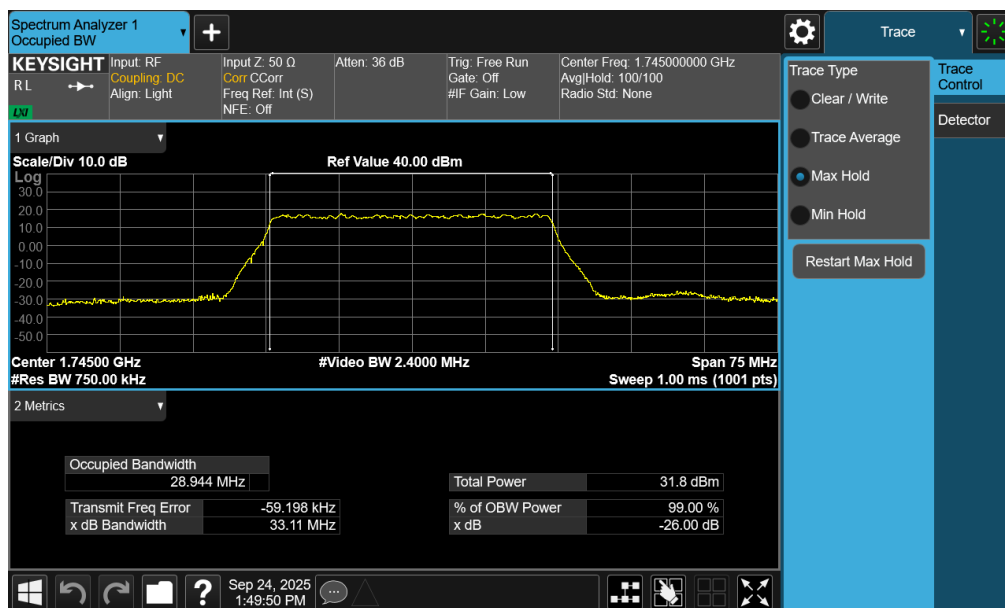
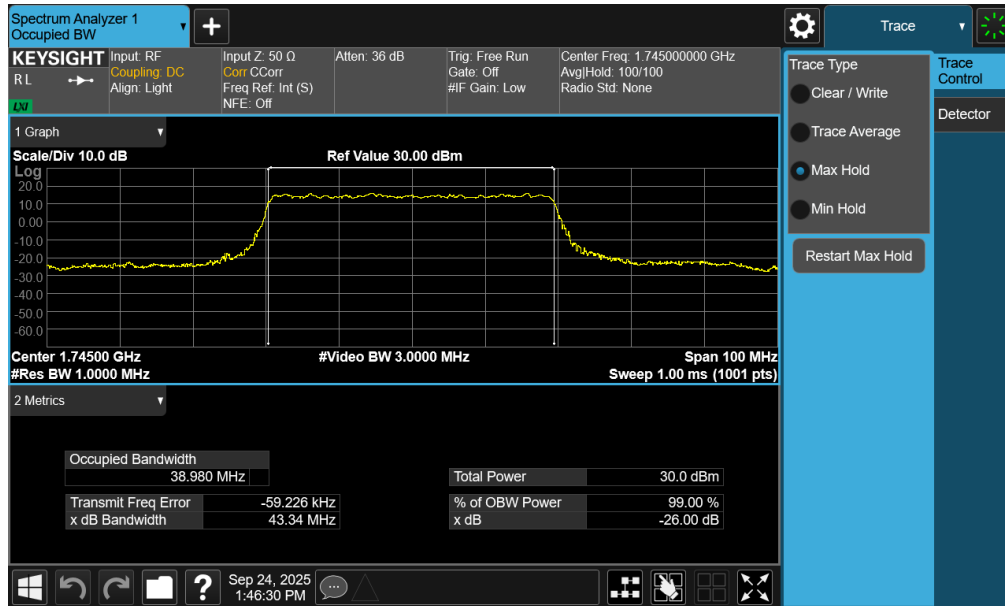


Plot 7-90. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

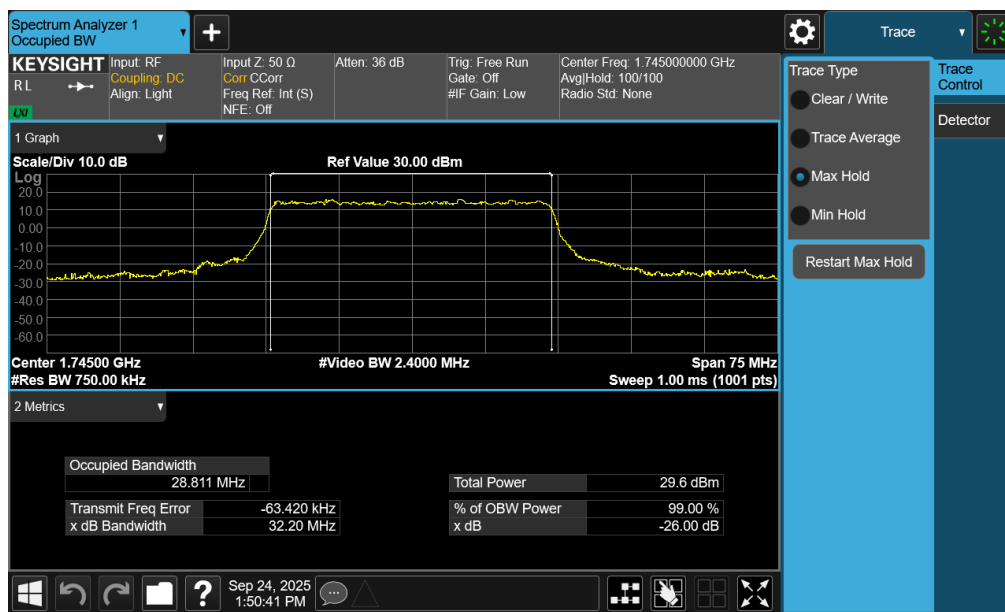
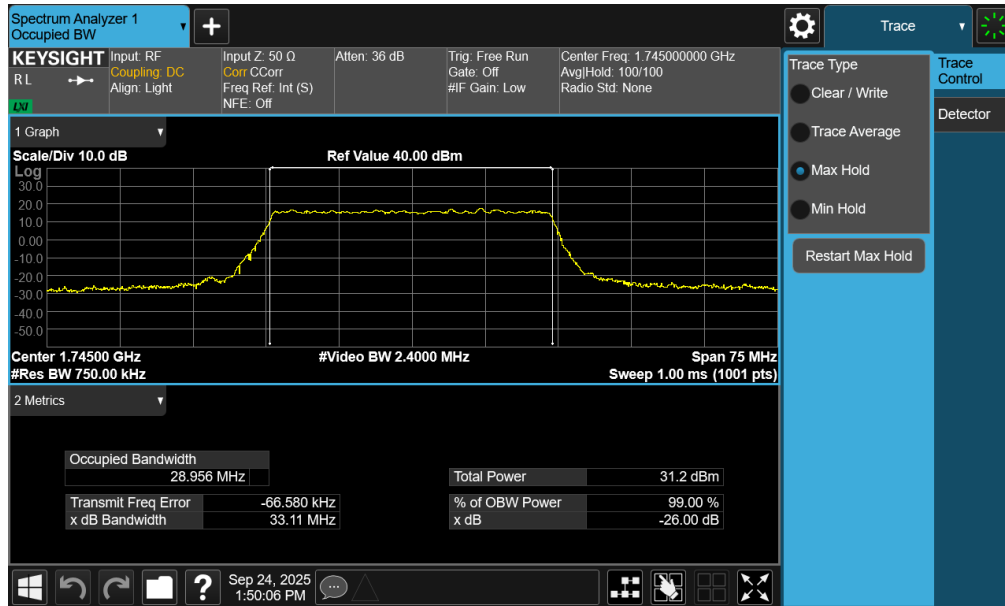


Plot 7-91. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – ANT2)

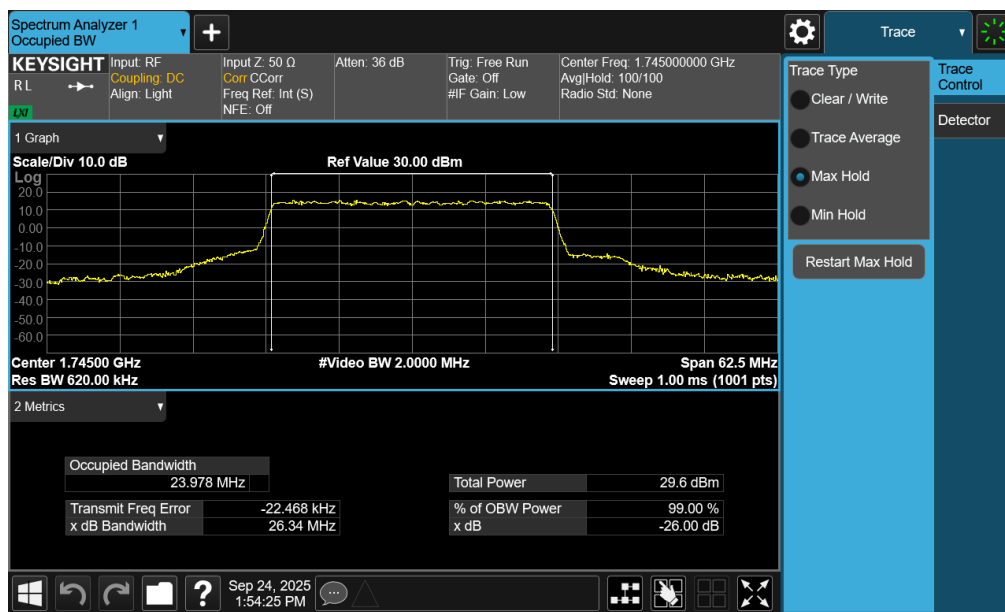
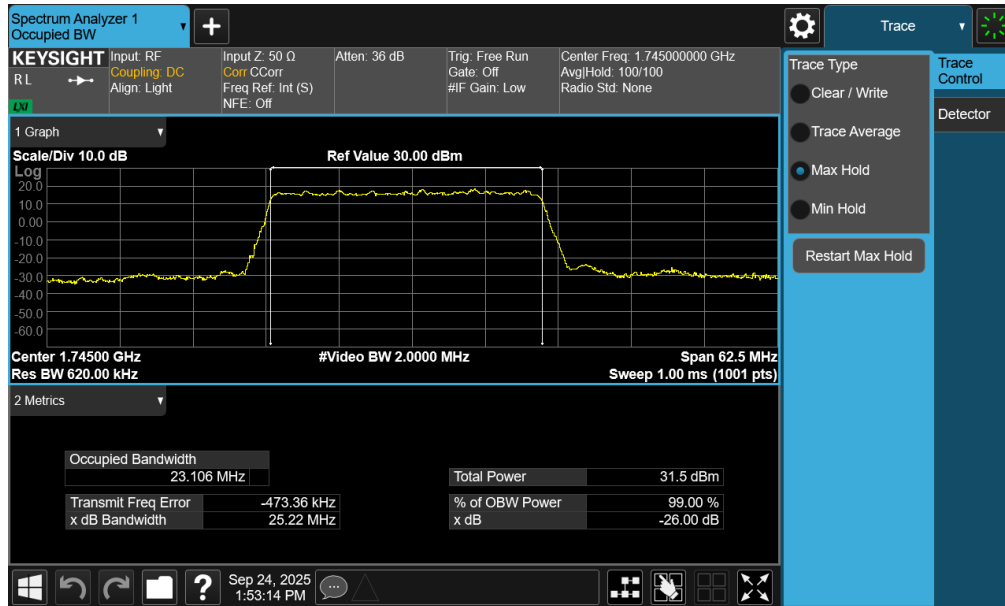
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 78 of 222



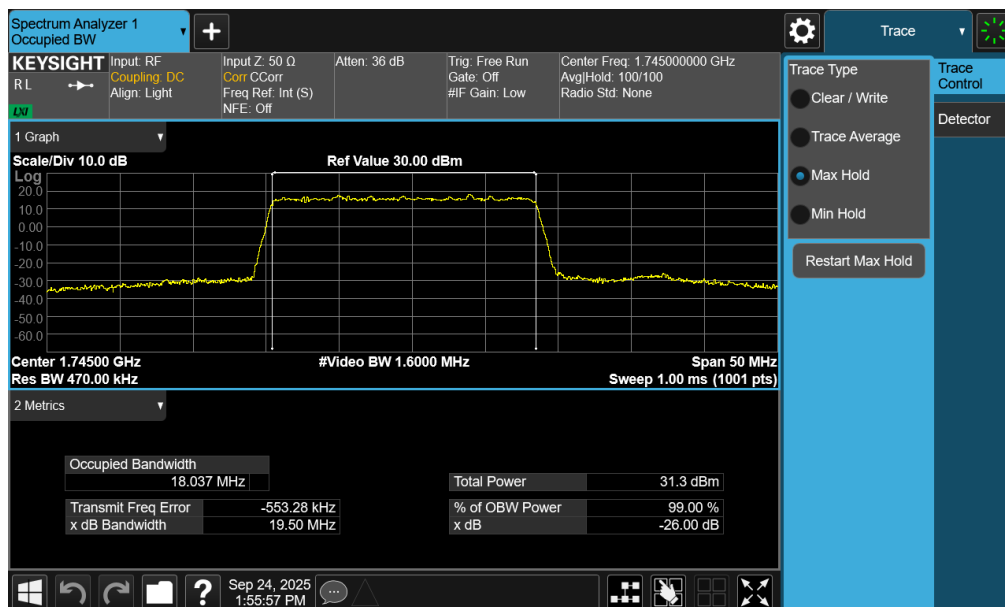
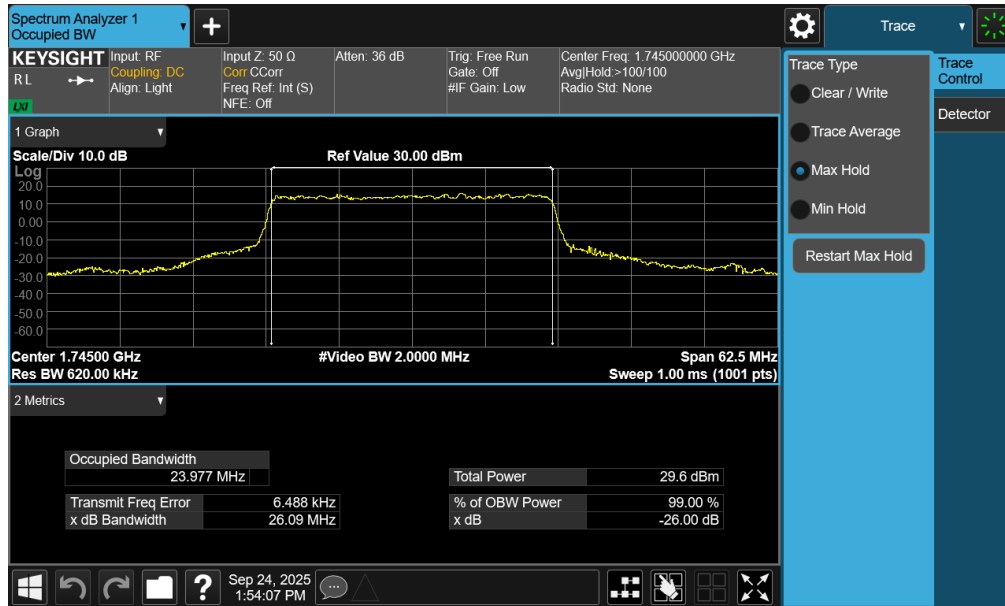
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 79 of 222



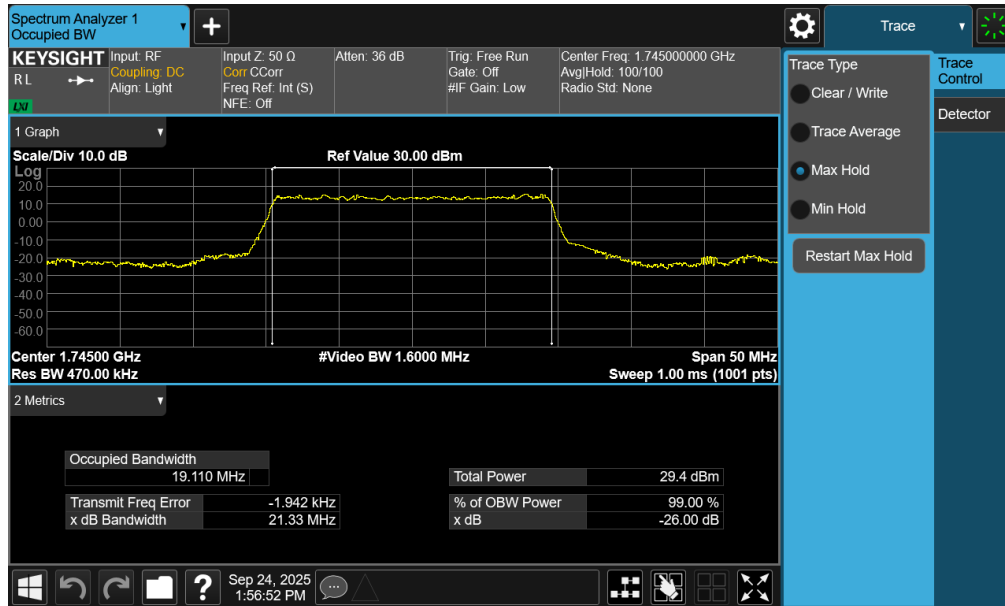
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 80 of 222



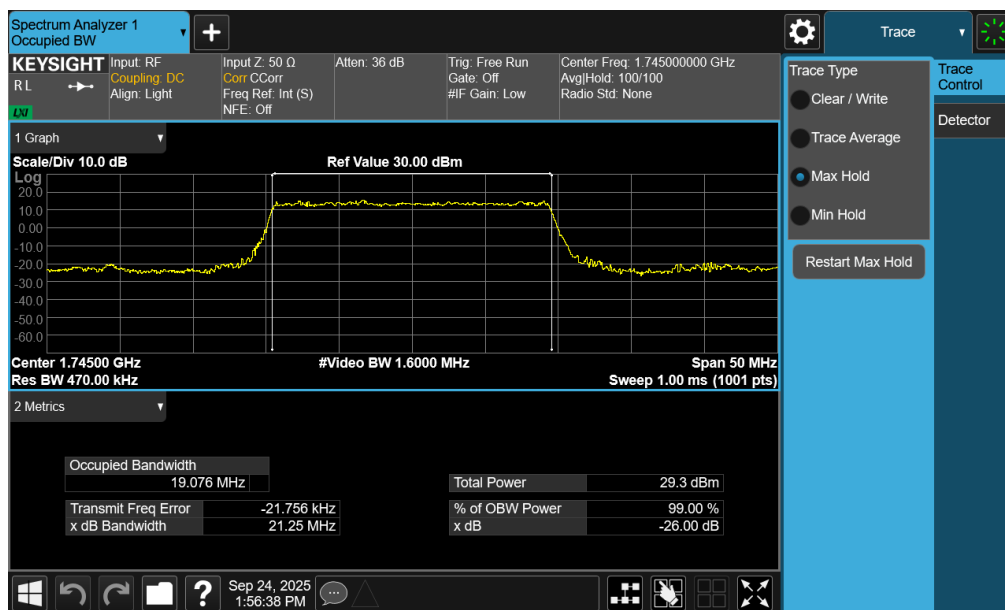
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 81 of 222



FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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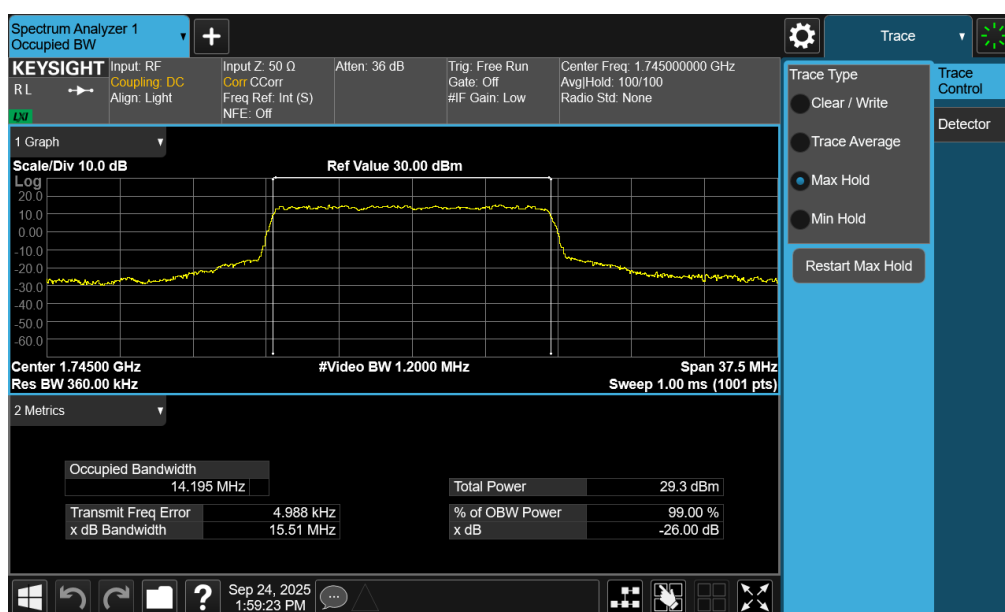
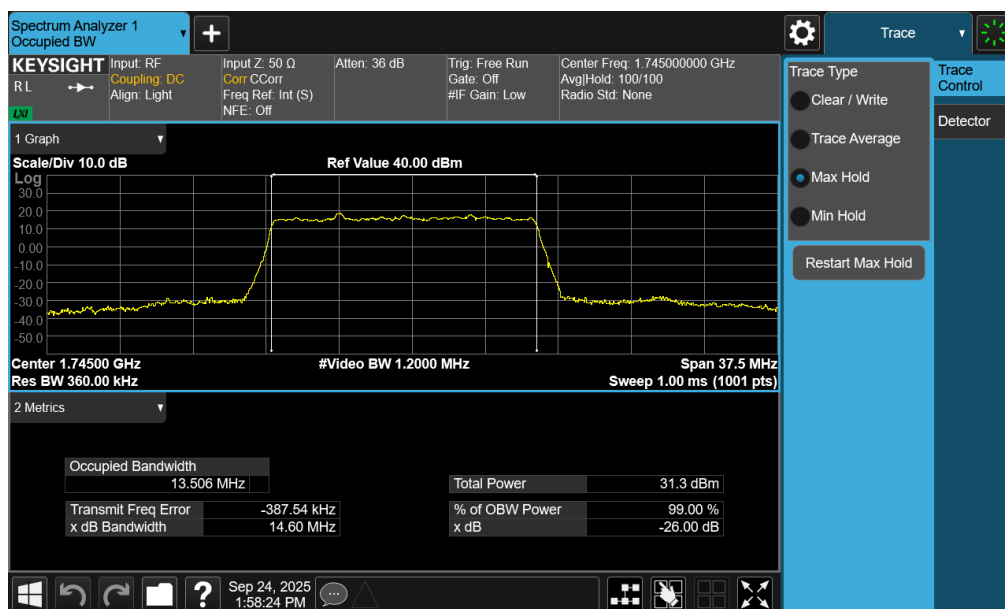


Plot 7-100. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – ANT2)

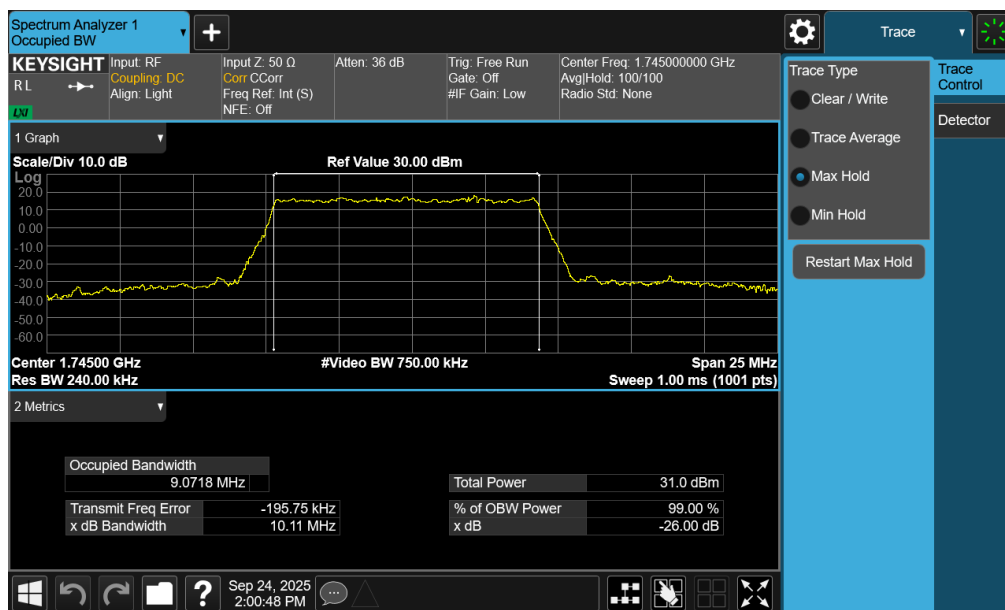
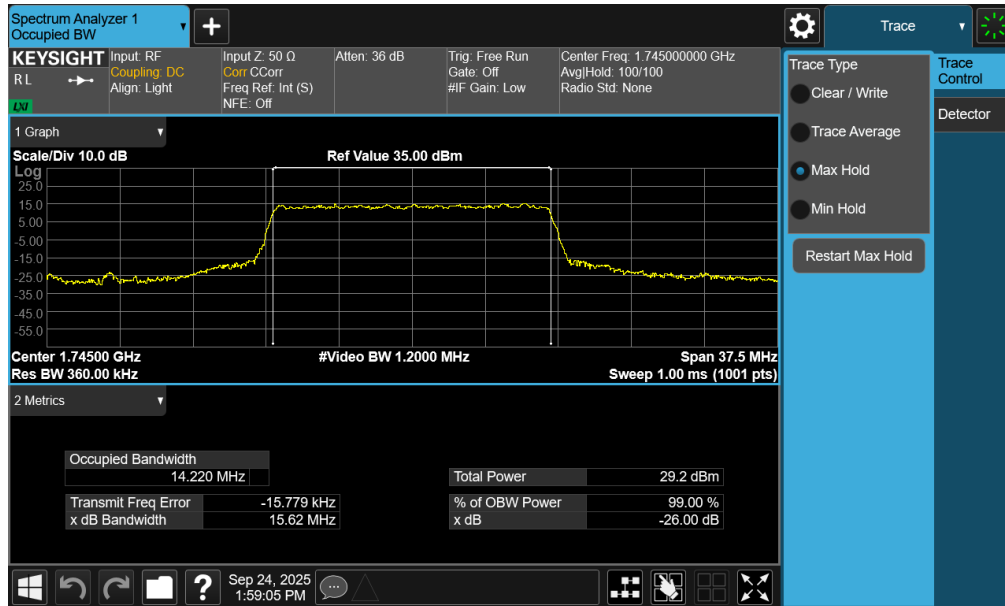


Plot 7-101. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – ANT2)

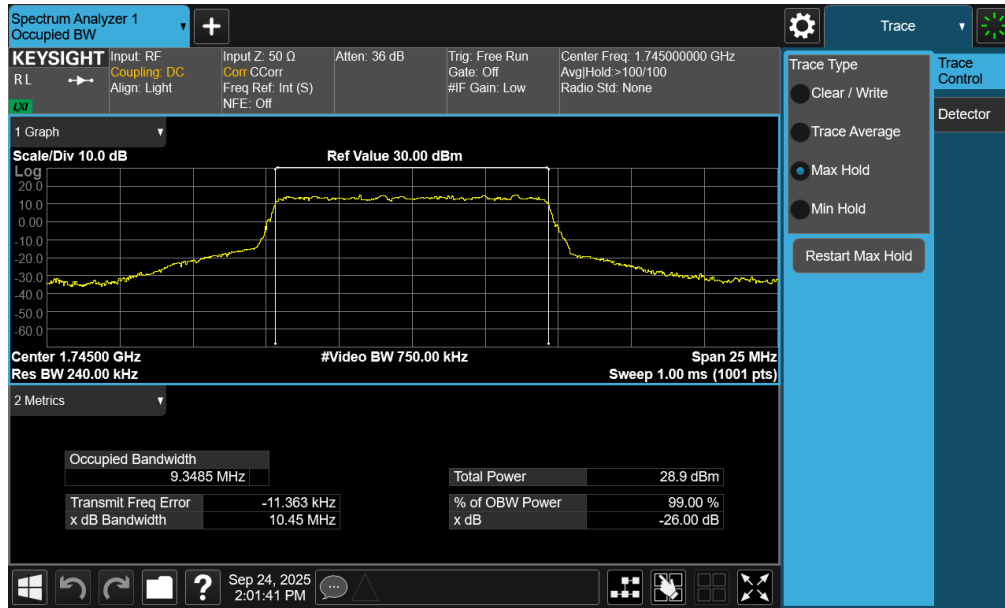
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 83 of 222



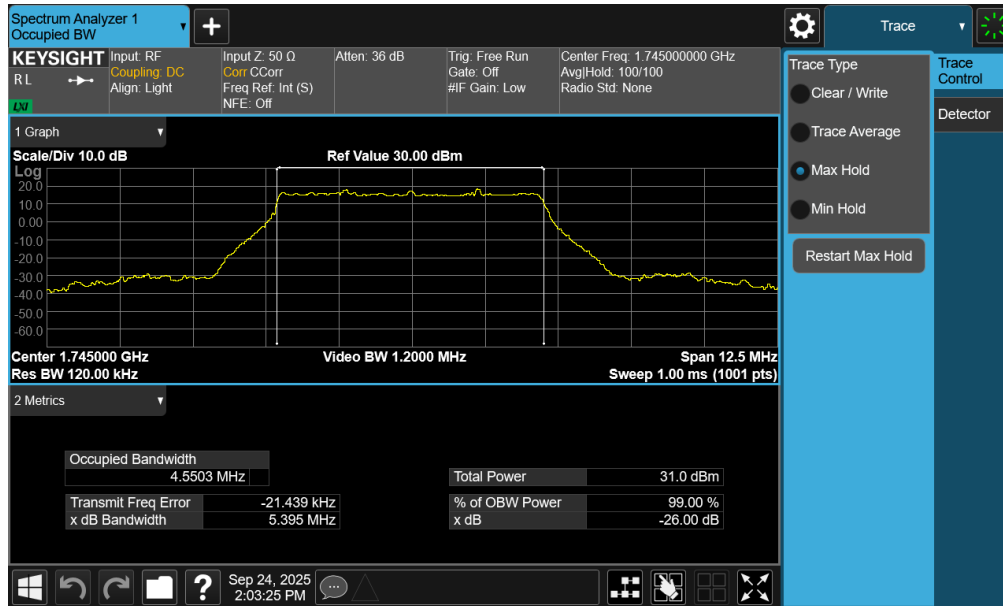
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 84 of 222



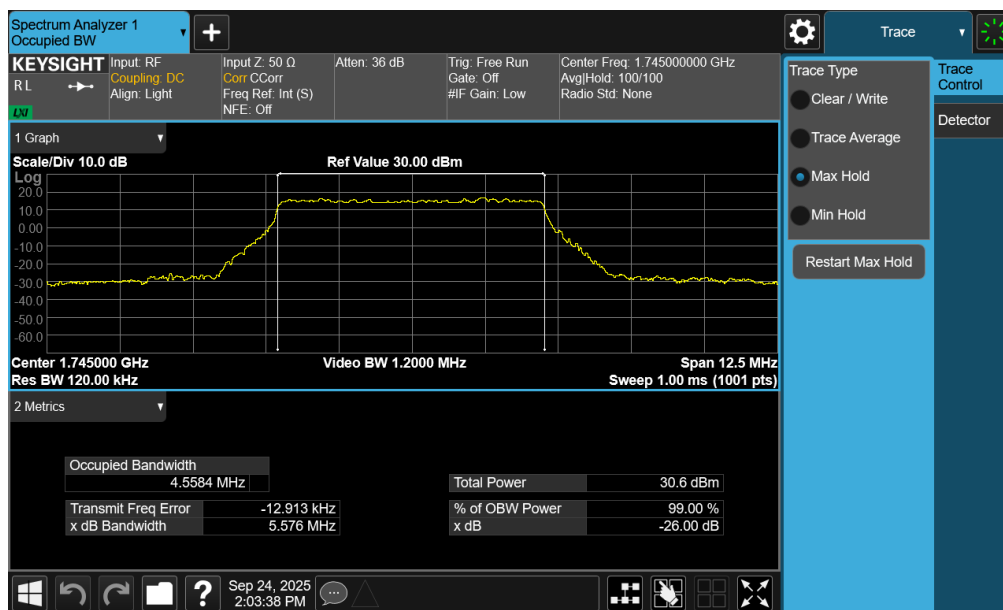
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 85 of 222



FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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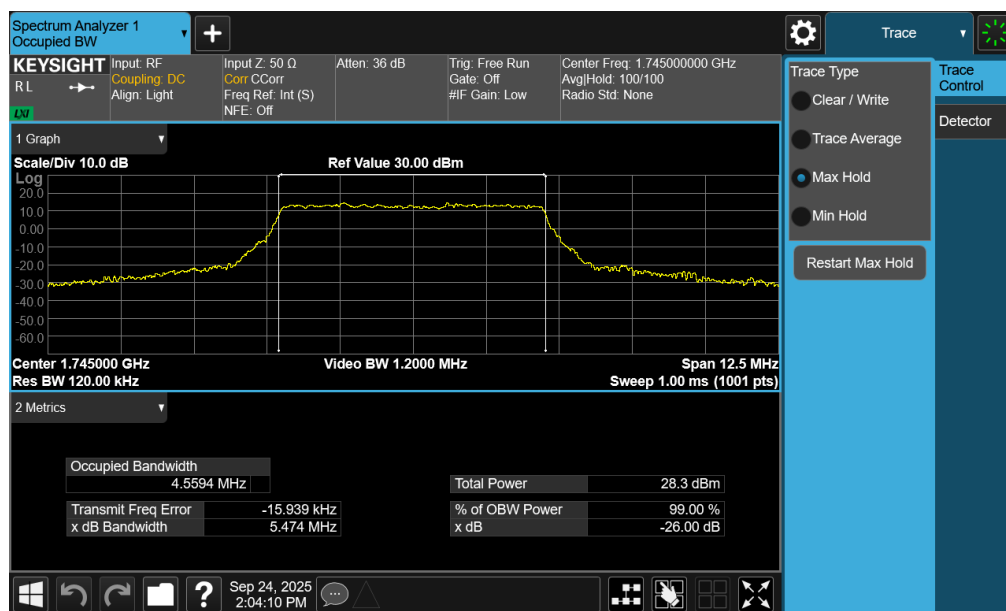


Plot 7-108. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-109. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 87 of 222



Plot 7-110. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS942B	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.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

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 18GHz (separated into at least two plots per channel)
2. RBW $\geq$ 100kHz
3. VBW $\geq$ 3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

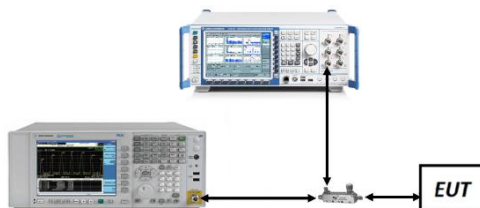


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz.
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: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 89 of 222

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	30.0 - 1705.0	-35.98	-13	-22.98
		Low	1755.0 - 10000.0	-49.15	-13	-36.15
		Low	10000.0 - 20000.0	-65.50	-13	-52.50
		Mid	30.0 - 1710.0	-50.46	-13	-37.46
		Mid	1755.0 - 10000.0	-49.60	-13	-36.60
		Mid	10000.0 - 20000.0	-65.51	-13	-52.51
		High	30.0 - 1710.0	-52.32	-13	-39.32
		High	1760.0 - 10000.0	-34.36	-13	-21.36
		High	10000.0 - 20000.0	-65.26	-13	-52.26
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-36.90	-13	-23.90
		Low	698.0 - 1000.0	-47.94	-13	-34.94
		Low	1000.0 - 10000.0	-61.75	-13	-48.75
		Mid	30.0 - 663.0	-46.39	-13	-33.39
		Mid	698.0 - 1000.0	-48.01	-13	-35.01
		Mid	1000.0 - 10000.0	-61.63	-13	-48.63
		High	30.0 - 663.0	-53.47	-13	-40.47
		High	698.0 - 1000.0	-37.86	-13	-24.86
		High	1000.0 - 10000.0	-61.76	-13	-48.76
NR Band n66	40 MHz	Low	30.0 - 1710.0	-40.86	-13	-27.86
		Low	1780.0 - 10000.0	-47.34	-13	-34.34
		Low	10000.0 - 20000.0	-63.33	-13	-50.33
		Mid	30.0 - 1710.0	-45.25	-13	-32.25
		Mid	1780.0 - 10000.0	-44.35	-13	-31.35
		Mid	10000.0 - 20000.0	-63.34	-13	-50.34
		High	30.0 - 1710.0	-49.84	-13	-36.84
		High	1780.0 - 10000.0	-40.63	-13	-27.63
		High	10000.0 - 20000.0	-63.40	-13	-50.40

Table 7-13. Conducted Spurious Emissions Results – Ant1

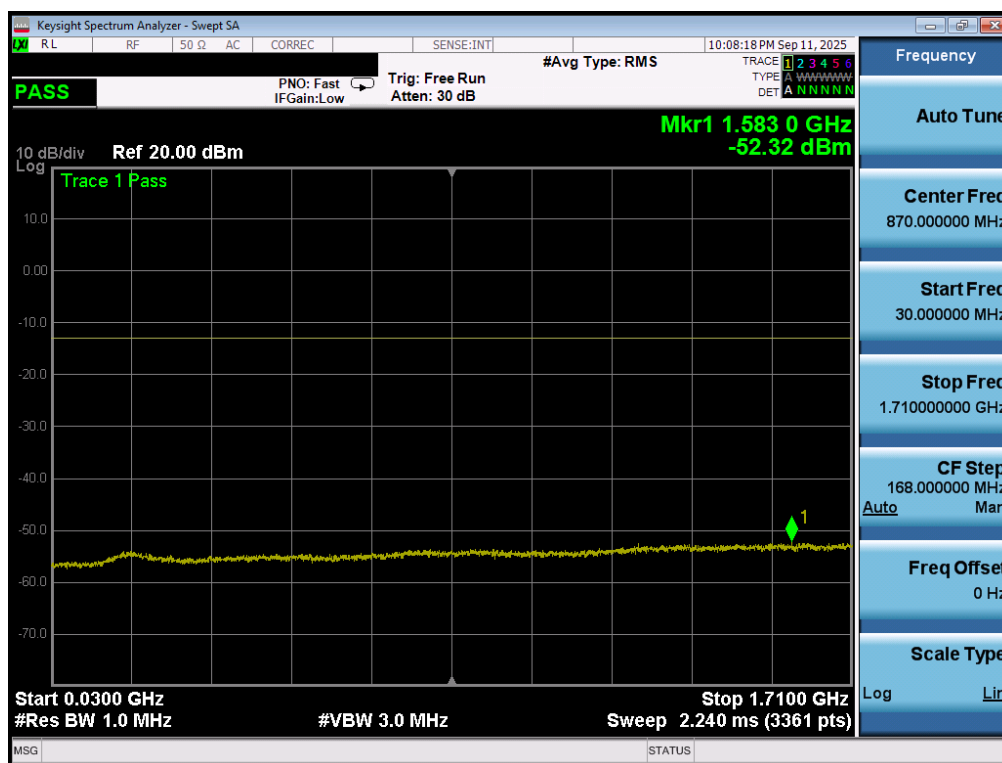
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 90 of 222

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12-17	10 MHz	Low	30.0 - 697.9	-44.88	-13	-31.88
		Low	716.0 - 1000.0	-46.10	-13	-33.10
		Low	1000.0 - 10000.0	-39.54	-13	-26.54
		Mid	30.0 - 698.0	-47.28	-13	-34.28
		Mid	716.0 - 1000.0	-46.80	-13	-33.80
		Mid	1000.0 - 10000.0	-39.76	-13	-26.76
		High	30.0 - 697.9	-55.20	-13	-42.20
		High	716.1 - 1000.0	-44.96	-13	-31.96
		High	1000.0 - 10000.0	-39.68	-13	-26.68
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-40.37	-35	-5.37
		Mid	787.0 - 1000.0	-42.15	-13	-29.15
		Mid	1000.0 - 20000.0	-49.69	-13	-36.69
NR Band n12	15 MHz	Low	30.0 - 698.0	-45.50	-13	-32.50
		Low	716.0 - 1000.0	-46.60	-13	-33.60
		Low	1000.0 - 10000.0	-37.48	-13	-24.48
		Mid	30.0 - 698.0	-46.83	-13	-33.83
		Mid	716.0 - 1000.0	-44.63	-13	-31.63
		Mid	1000.0 - 10000.0	-37.55	-13	-24.55
		High	30.0 - 698.0	-45.99	-13	-32.99
		High	716.0 - 1000.0	-44.85	-13	-31.85
		High	1000.0 - 10000.0	-37.36	-13	-24.36

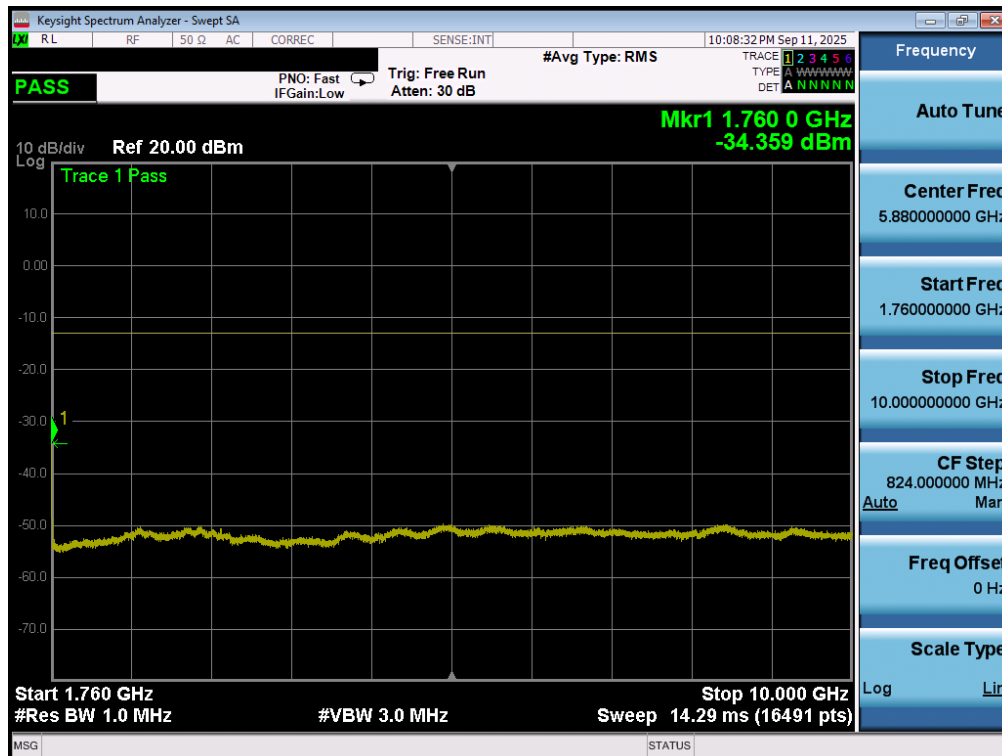
Table 7-14. Conducted Spurious Emissions Results – Ant1

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA-AWS – ANT1



Plot 7-111. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – High Channel)



Plot 7-112. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – High Channel)

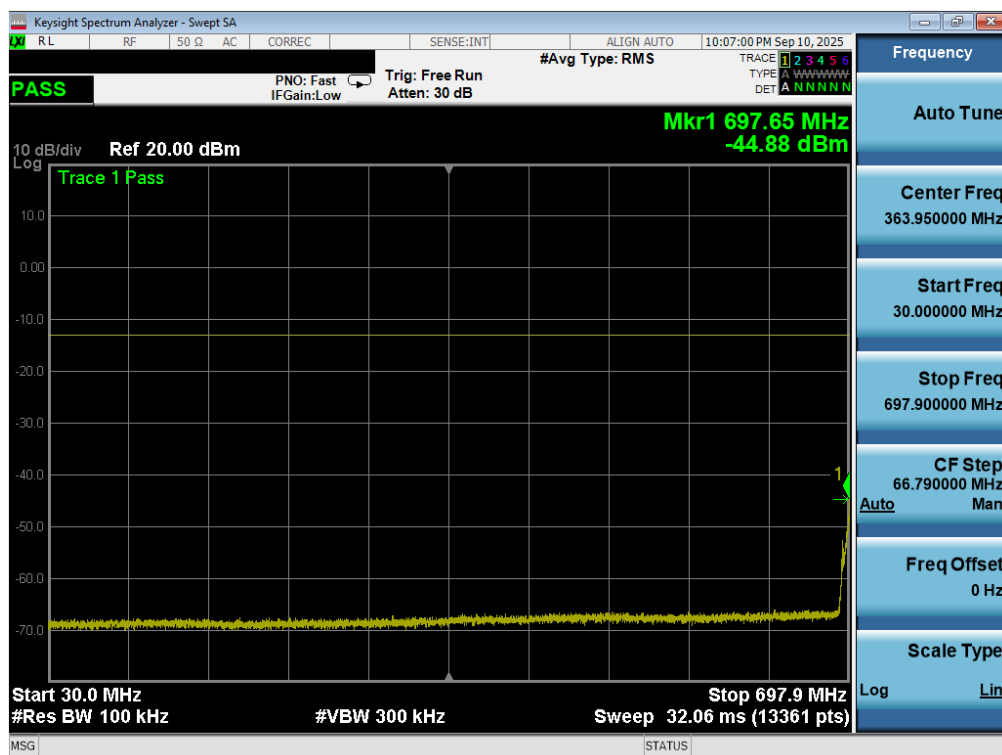
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 92 of 222



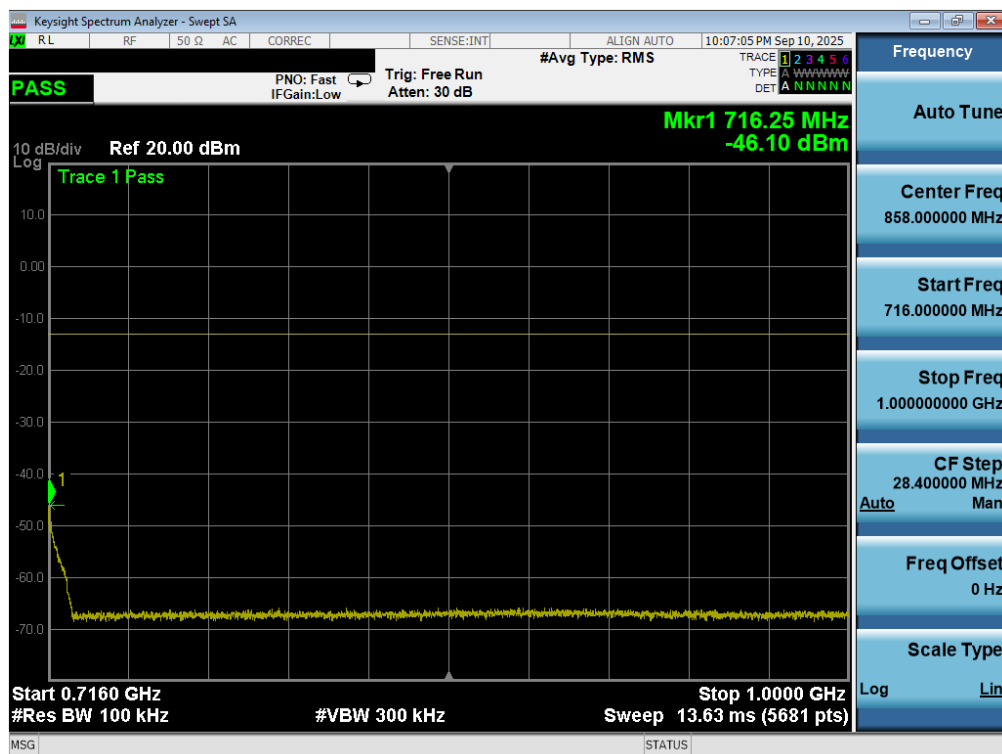
Plot 7-113. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – High Channel)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17 – ANT1

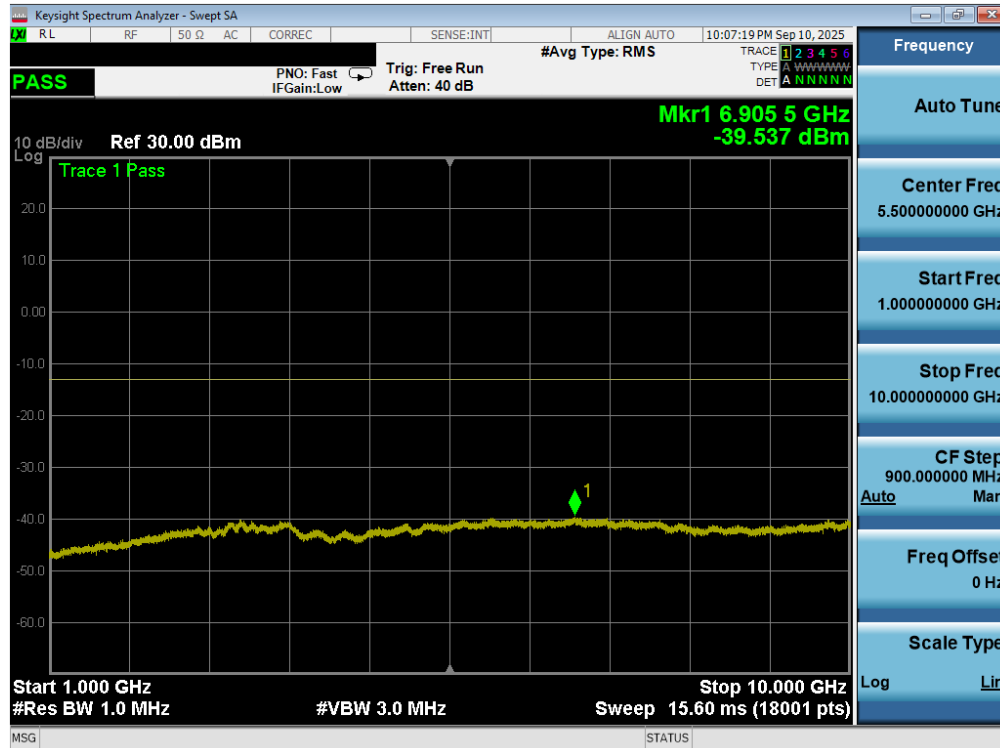


Plot 7-114. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT1)



Plot 7-115. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

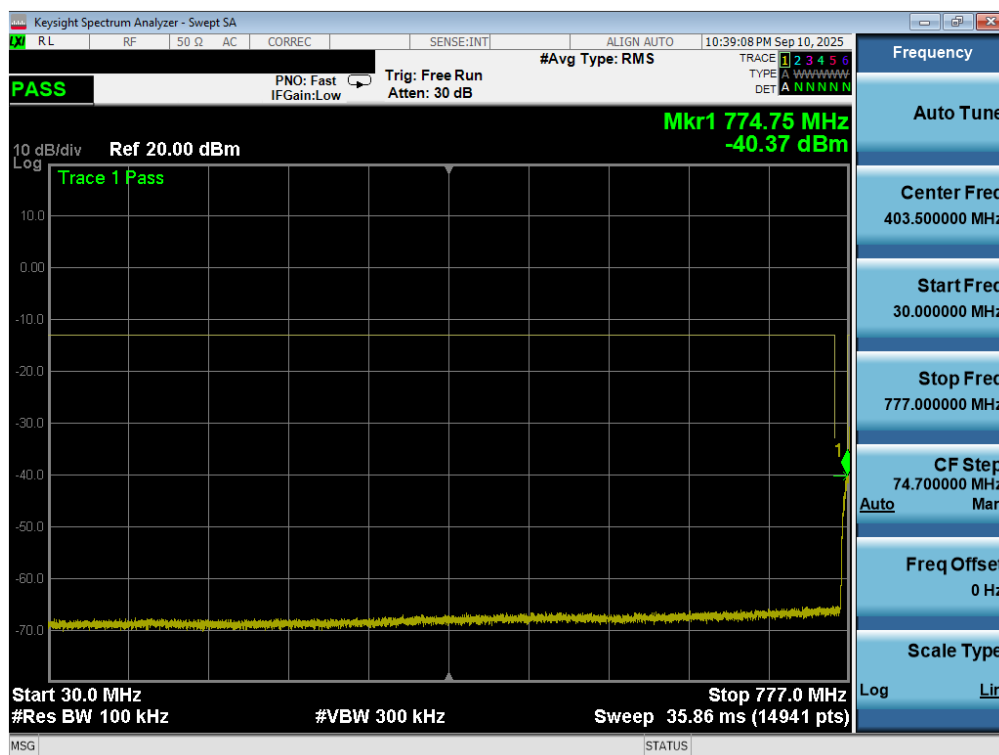
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 94 of 222



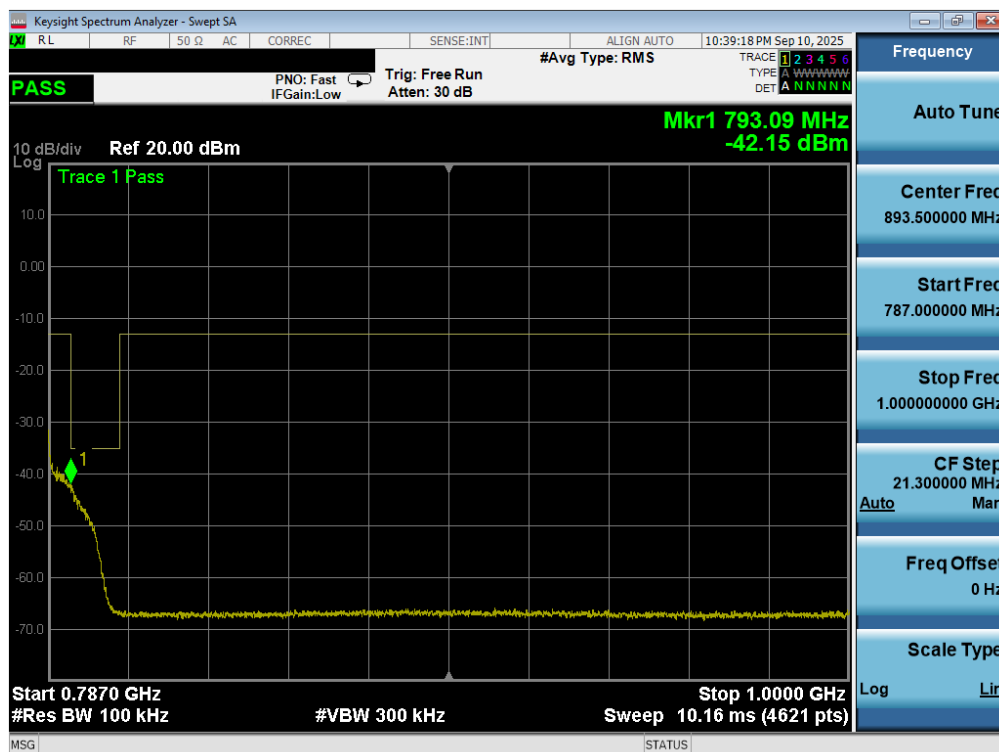
Plot 7-116. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – ANT1

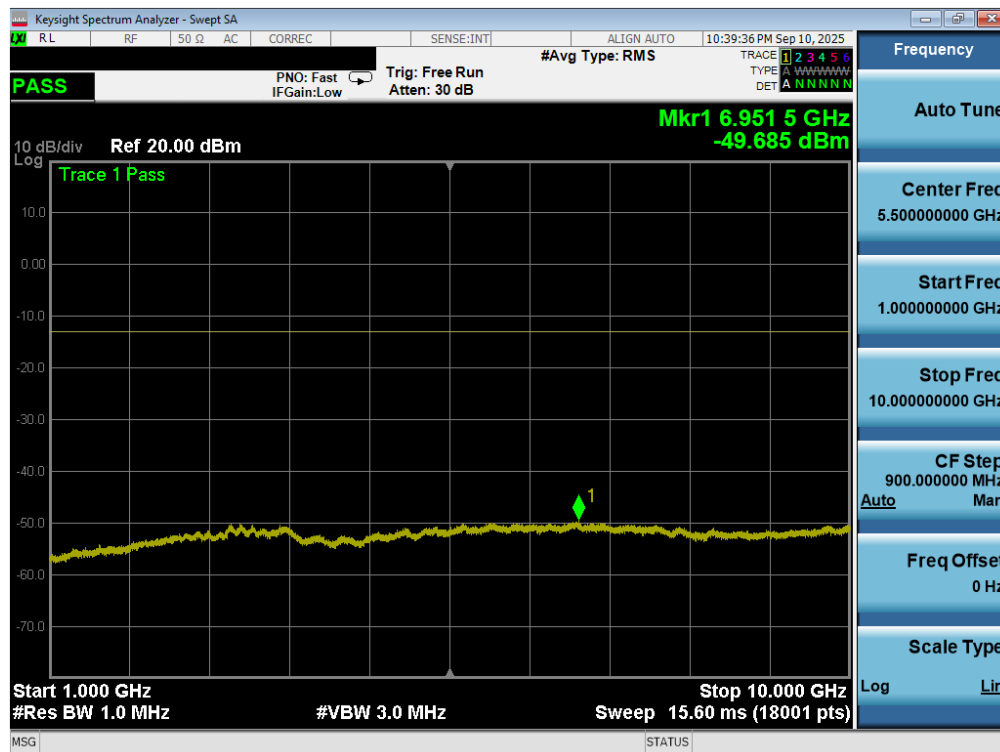


Plot 7-117. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-118. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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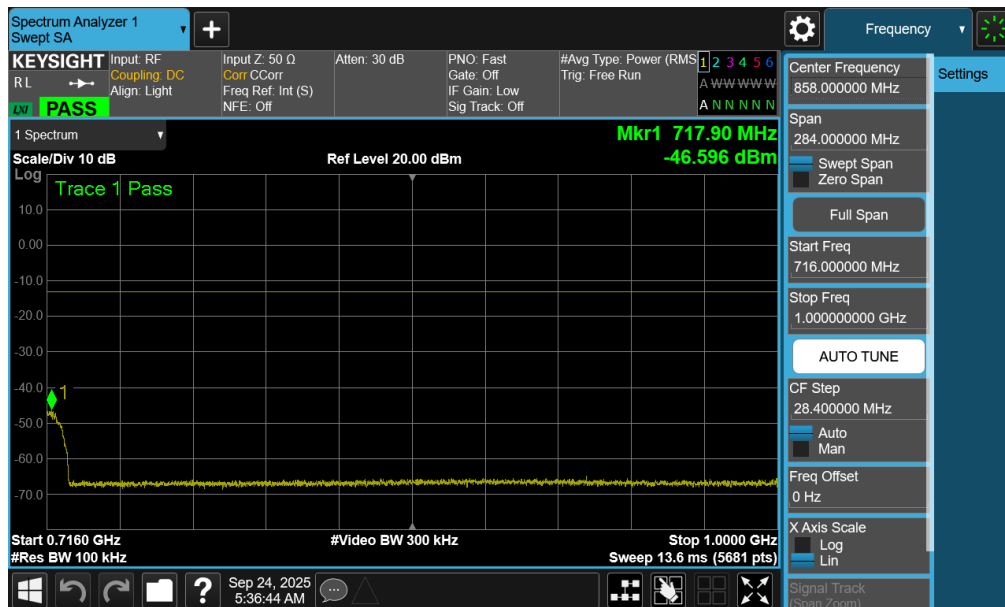
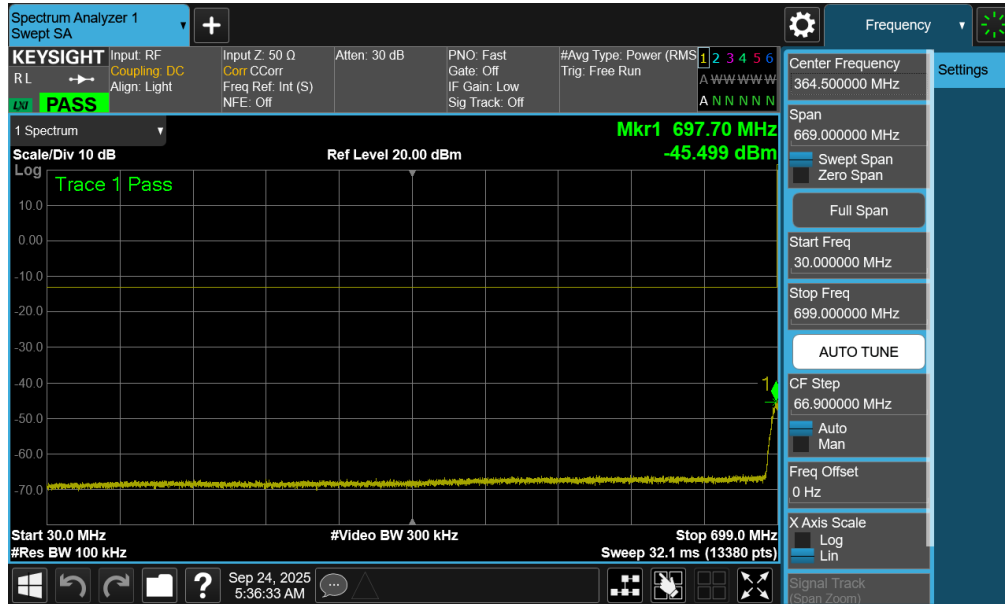


Plot 7-119. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 97 of 222



NR Band n12 – ANT1



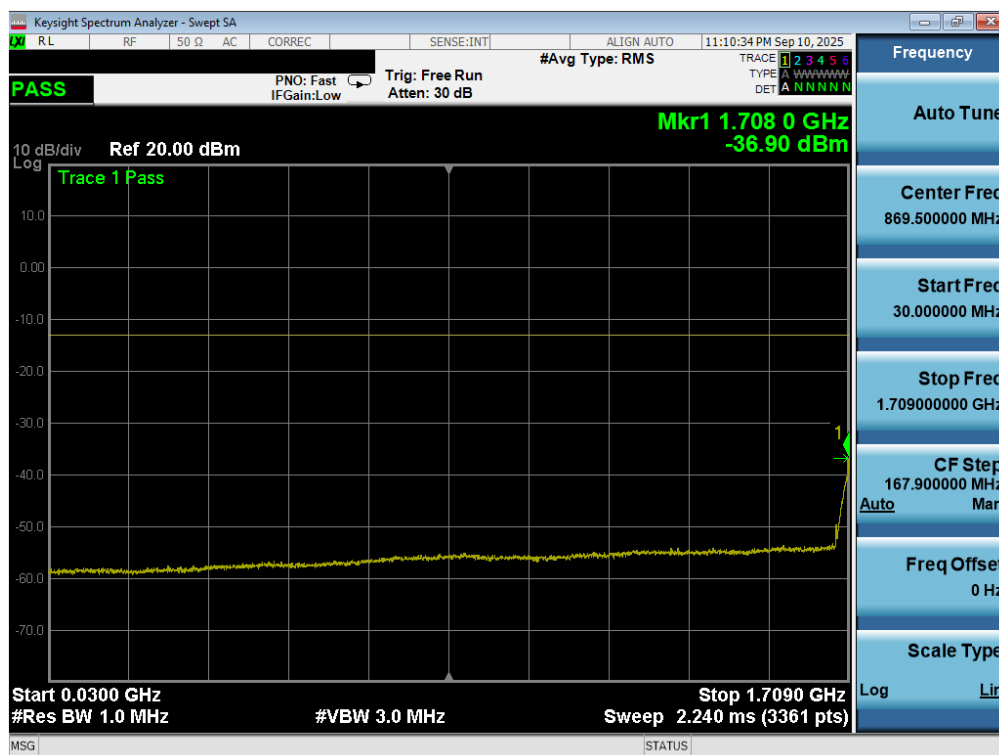
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 98 of 222



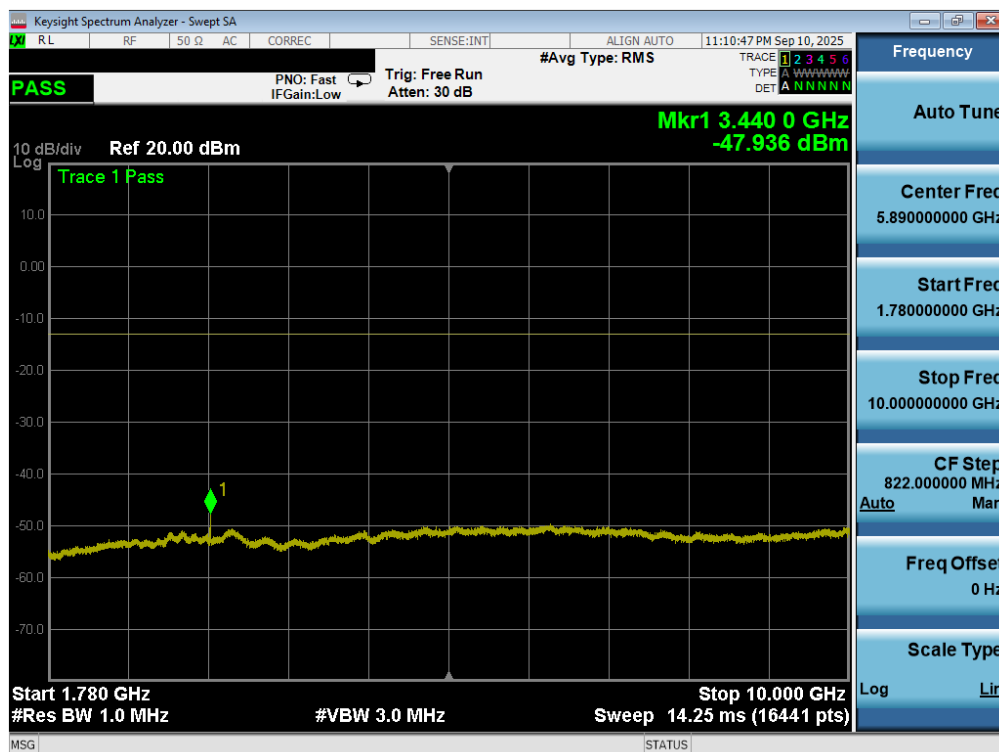
Plot 7-122. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT1

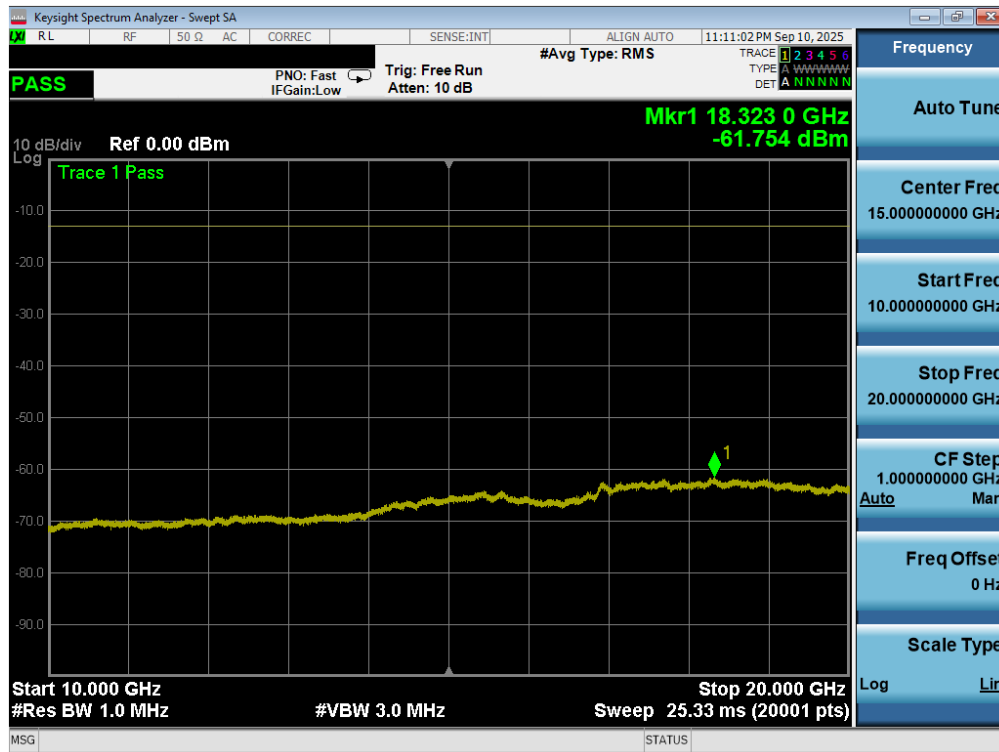


Plot 7-123. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Low Channel)



Plot 7-124. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Low Channel)

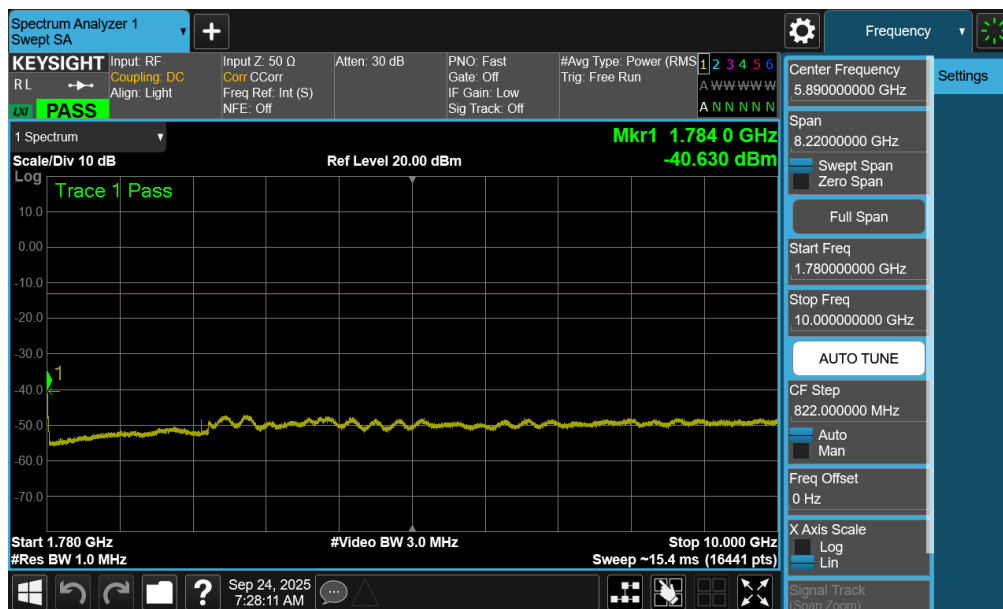
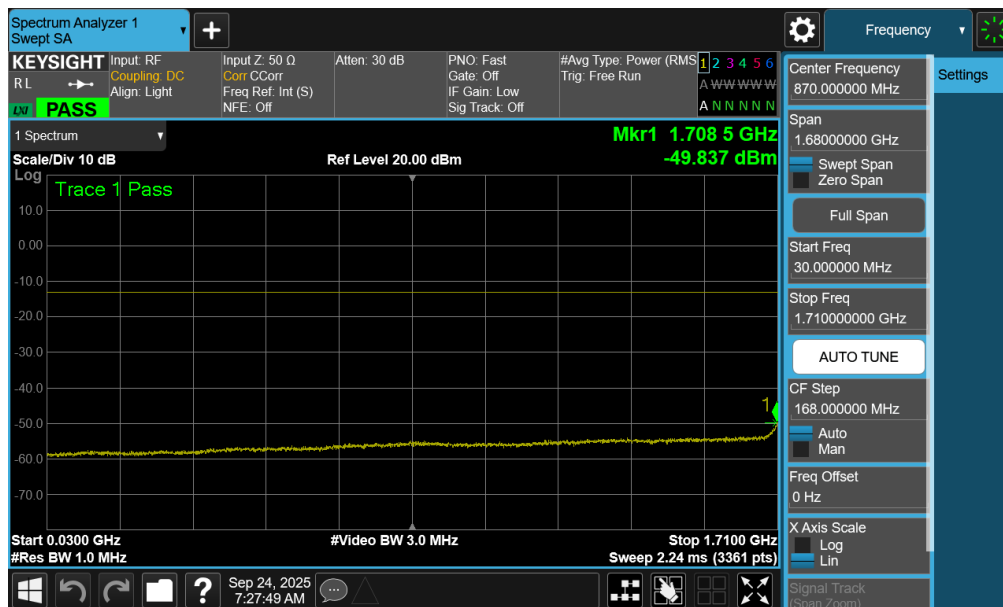
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 100 of 222



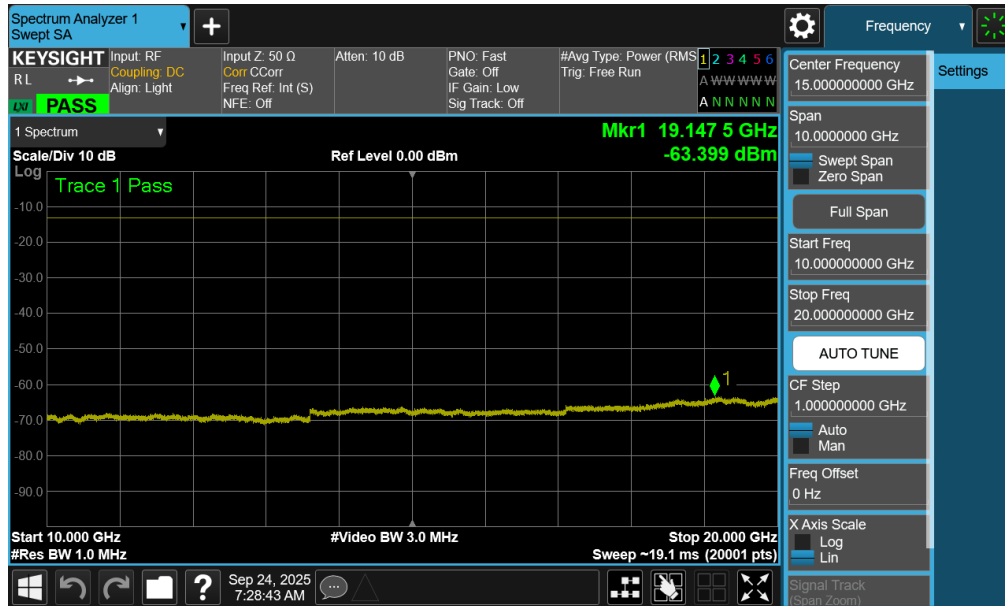
Plot 7-125. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – Low Channel)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 101 of 222

NR Band n66 – ANT1



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Plot 7-128. Conducted Spurious Plot (NR Band n66 - 40MHz - 1 RB - High Channel - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	30.0 - 1705.0	-43.18	-13	-30.18
		Low	1755.0 - 10000.0	-46.70	-13	-33.70
		Low	10000.0 - 20000.0	-62.48	-13	-49.48
		Mid	30.0 - 1710.0	-53.94	-13	-40.94
		Mid	1755.0 - 10000.0	-47.01	-13	-34.01
		Mid	10000.0 - 20000.0	-62.33	-13	-49.33
		High	30.0 - 1710.0	-54.31	-13	-41.31
		High	1760.0 - 10000.0	-44.84	-13	-31.84
		High	10000.0 - 20000.0	-62.38	-13	-49.38
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-38.90	-13	-25.90
		Low	698.0 - 1000.0	-47.58	-13	-34.58
		Low	1000.0 - 10000.0	-65.56	-13	-52.56
		Mid	30.0 - 663.0	-50.46	-13	-37.46
		Mid	698.0 - 1000.0	-48.64	-13	-35.64
		Mid	1000.0 - 10000.0	-65.31	-13	-52.31
		High	30.0 - 663.0	-51.92	-13	-38.92
		High	698.0 - 1000.0	-38.11	-13	-25.11
		High	1000.0 - 10000.0	-65.38	-13	-52.38
NR Band n66	40 MHz	Low	30.0 - 1710.0	-42.32	-13	-29.32
		Low	1780.0 - 10000.0	-46.94	-13	-33.94
		Low	10000.0 - 20000.0	-63.43	-13	-50.43
		Mid	30.0 - 1710.0	-46.67	-13	-33.67
		Mid	1780.0 - 10000.0	-43.11	-13	-30.11
		Mid	10000.0 - 20000.0	-63.51	-13	-50.51
		High	30.0 - 1710.0	-50.13	-13	-37.13
		High	1780.0 - 10000.0	-40.68	-13	-27.68
		High	10000.0 - 20000.0	-63.33	-13	-50.33

Table 7-15. Conducted Spurious Emissions Results – Ant2

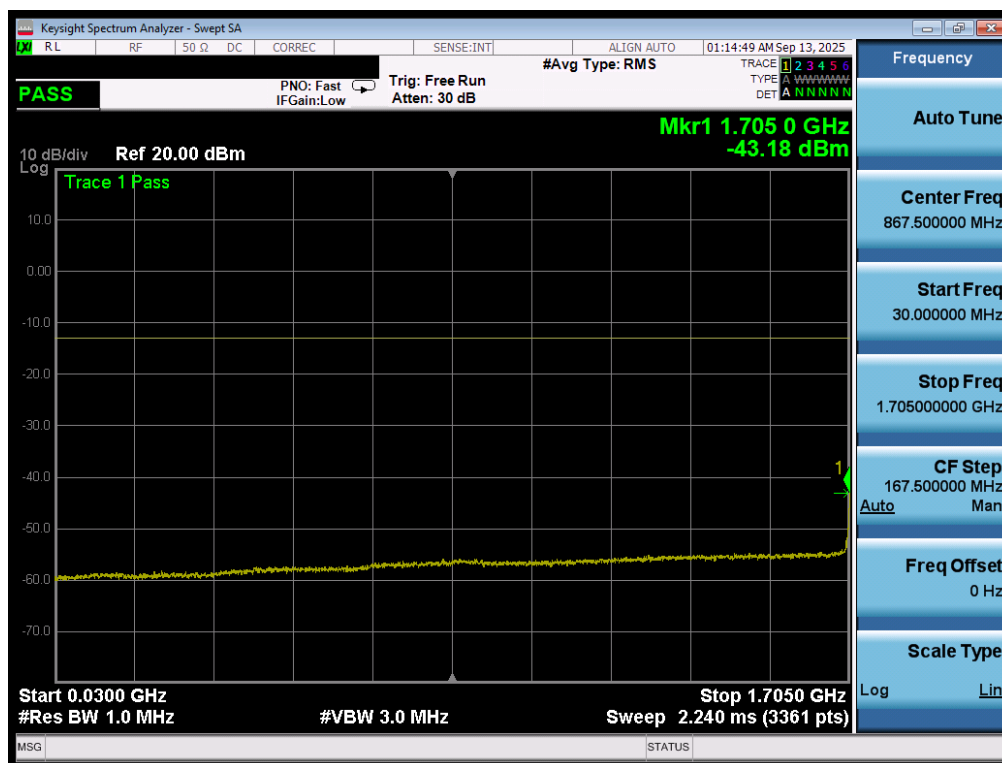
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12-17	10 MHz	Low	30.0 - 697.9	-45.28	-13	-32.28
		Low	716.0 - 1000.0	-46.21	-13	-33.21
		Low	1000.0 - 10000.0	-39.47	-13	-26.47
		Mid	30.0 - 698.0	-48.48	-13	-35.48
		Mid	716.0 - 1000.0	-47.55	-13	-34.55
		Mid	1000.0 - 10000.0	-39.74	-13	-26.74
		High	30.0 - 697.9	-54.27	-13	-41.27
		High	716.1 - 1000.0	-46.32	-13	-33.32
		High	1000.0 - 10000.0	-39.45	-13	-26.45
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-49.38	-35	-14.38
		Mid	787.0 - 1000.0	-46.81	-13	-33.81
		Mid	1000.0 - 20000.0	-39.65	-13	-26.65
NR Band n12	15 MHz	Low	30.0 - 698.0	-46.51	-13	-33.51
		Low	716.0 - 1000.0	-45.50	-13	-32.50
		Low	1000.0 - 10000.0	-37.28	-13	-24.28
		Mid	30.0 - 698.0	-47.44	-13	-34.44
		Mid	716.0 - 1000.0	-45.31	-13	-32.31
		Mid	1000.0 - 10000.0	-37.33	-13	-24.33
		High	30.0 - 698.0	-46.17	-13	-33.17
		High	716.0 - 1000.0	-45.70	-13	-32.70
		High	1000.0 - 10000.0	-37.52	-13	-24.52

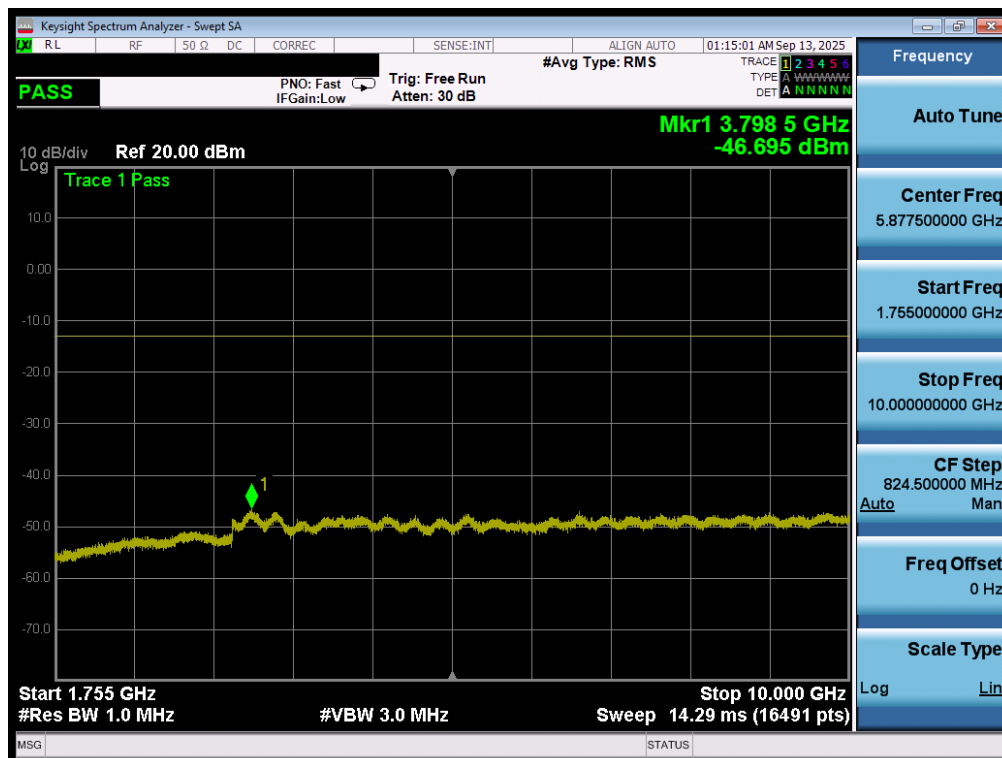
Table 7-16. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA-AWS – ANT2

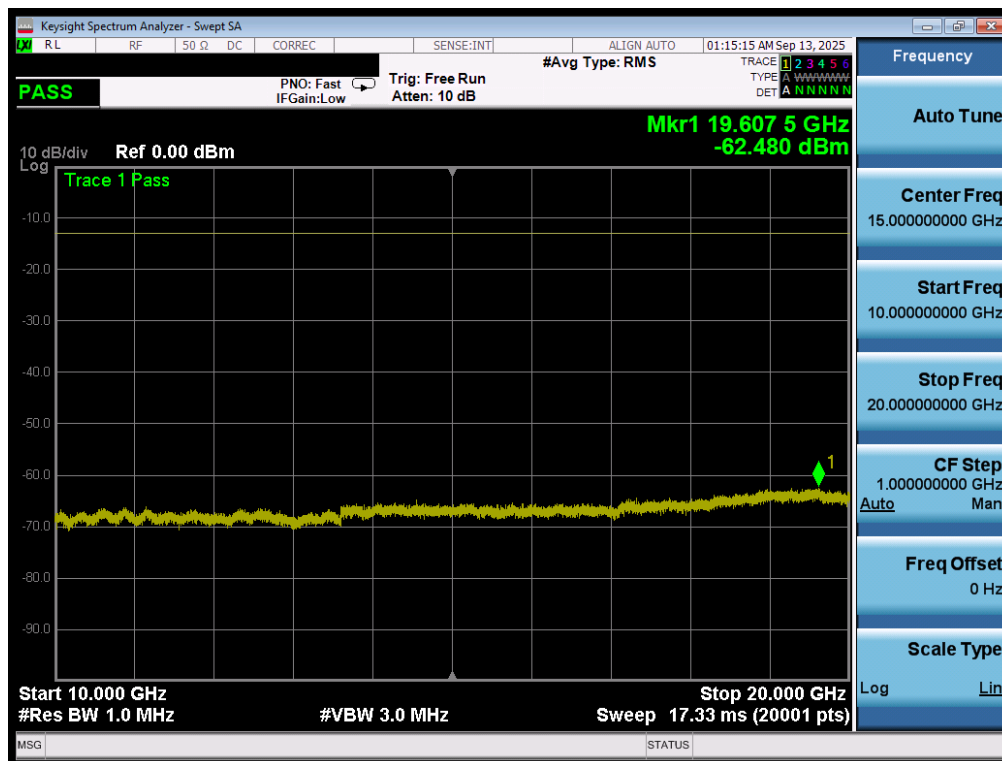


Plot 7-129. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)



Plot 7-130. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

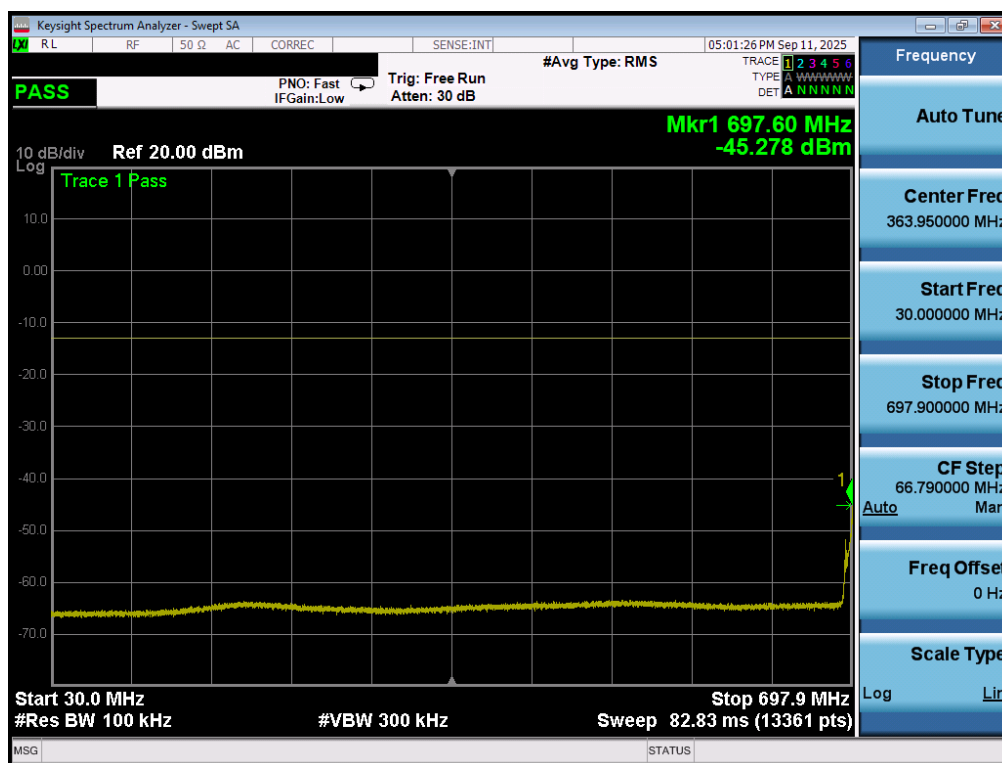
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 106 of 222



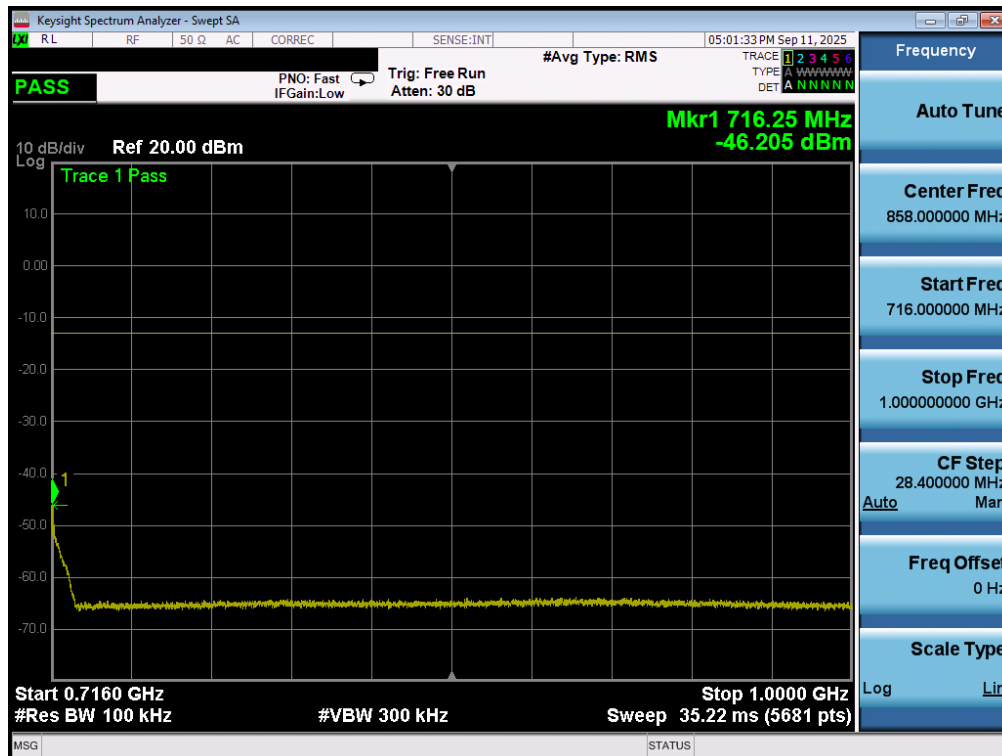
Plot 7-131. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17 – ANT2

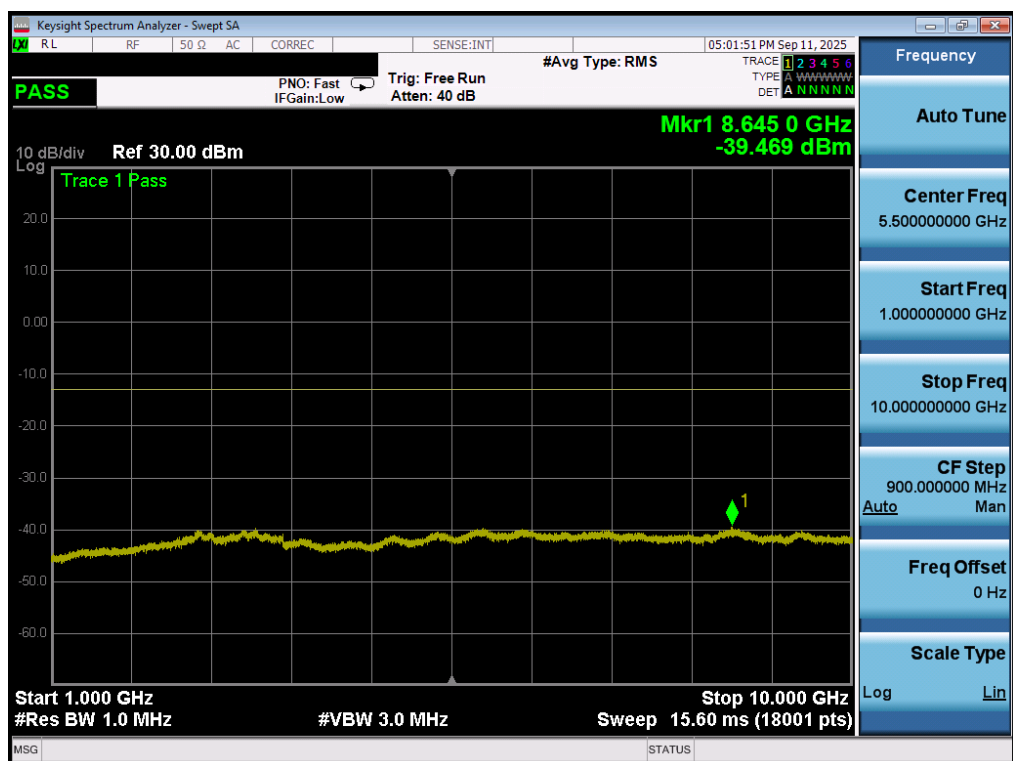


Plot 7-132. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT2)



Plot 7-133. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT2)

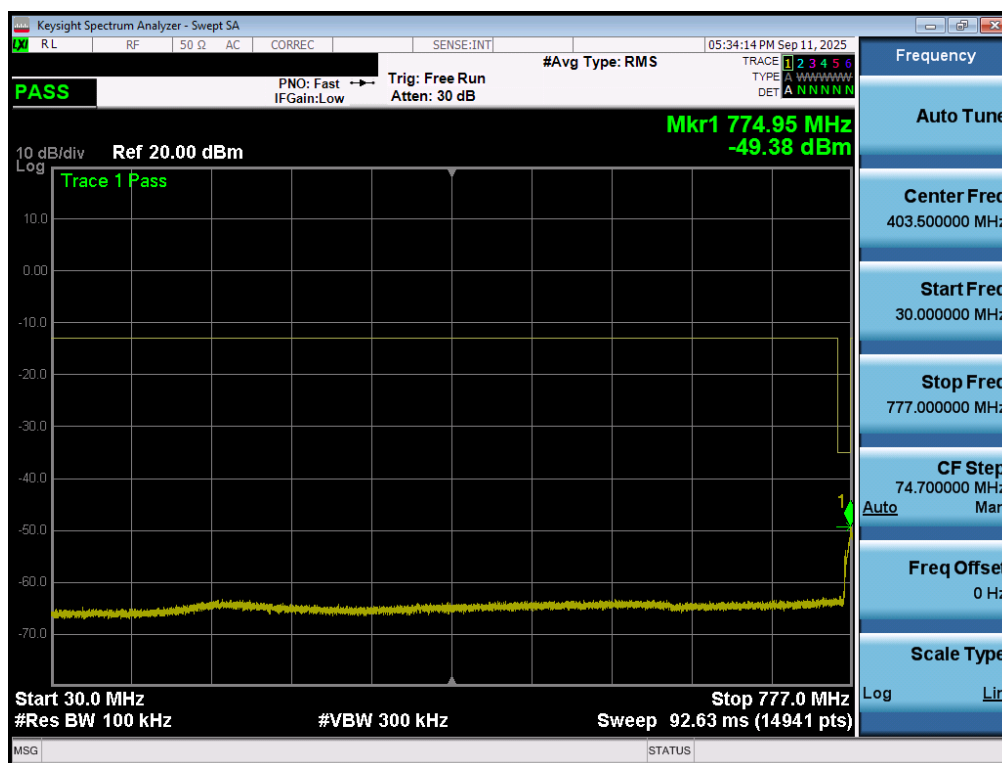
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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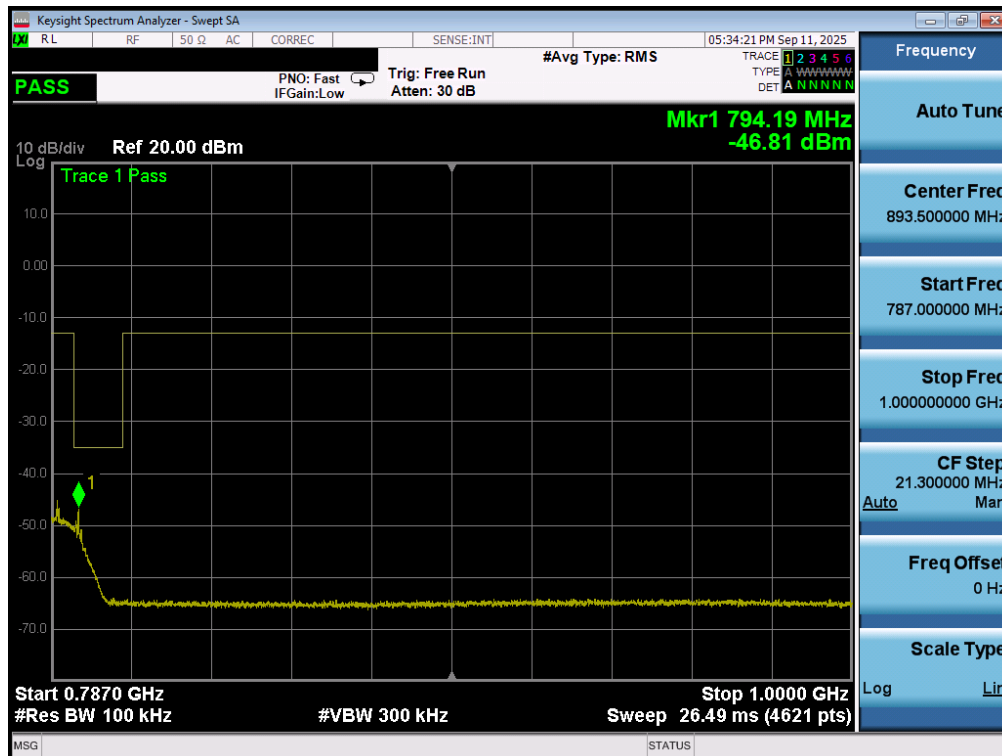
Plot 7-134. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - ANT2)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13 – ANT2



Plot 7-135. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-136. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

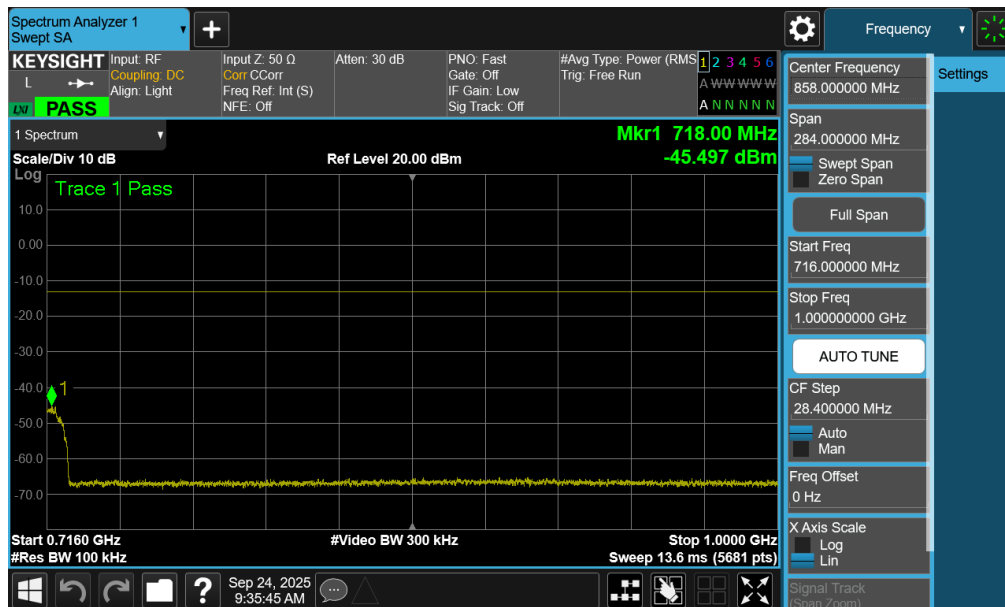
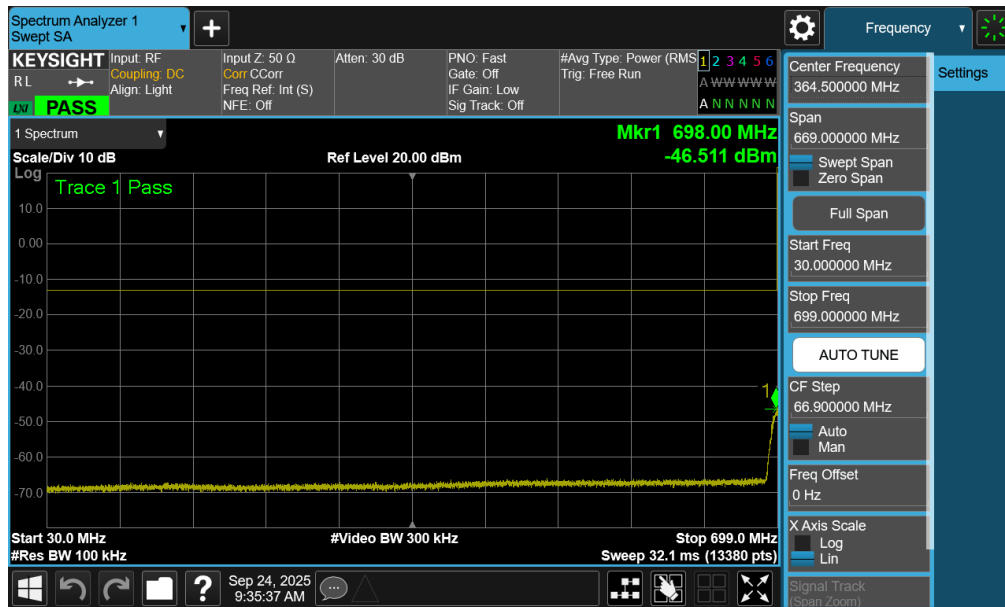
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 110 of 222



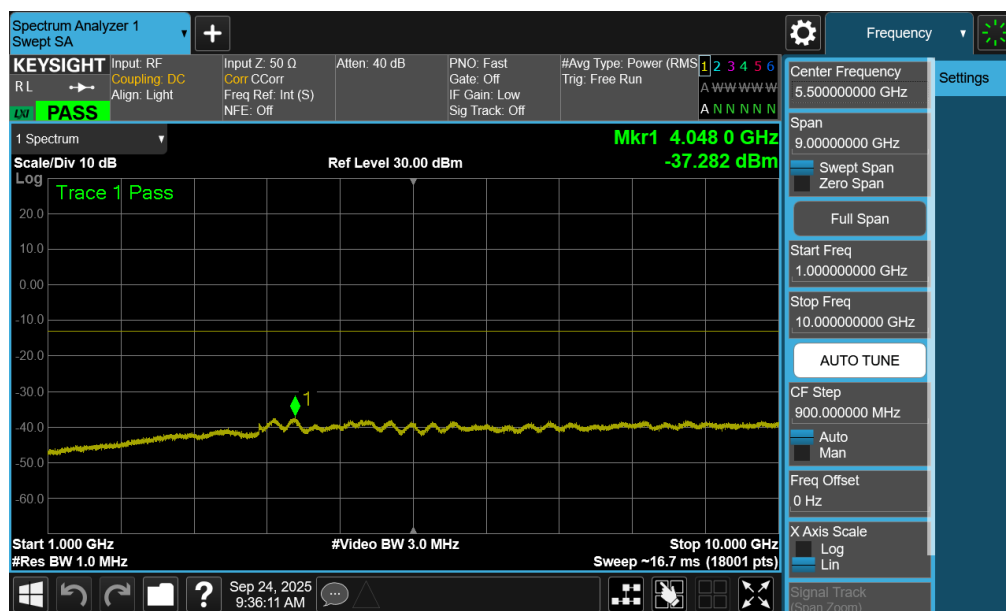
Plot 7-137. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12 – ANT2



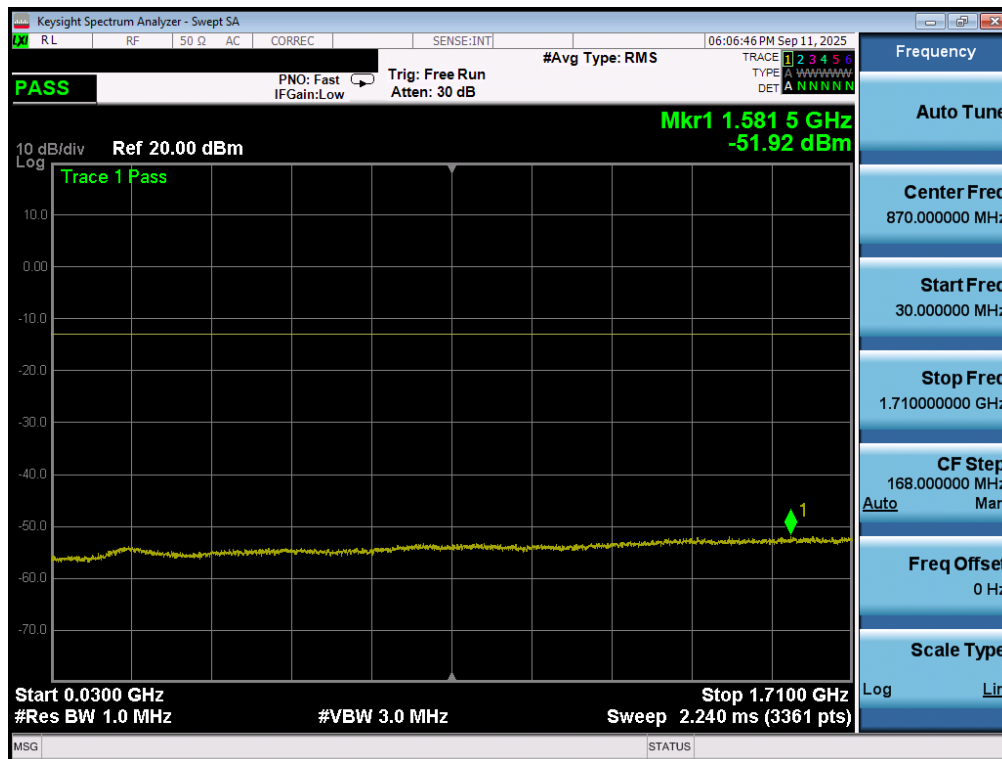
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-08.A3L	Test Dates: 9/3/2025 - 10/3/2025	EUT Type: Portable Handset	Page 112 of 222



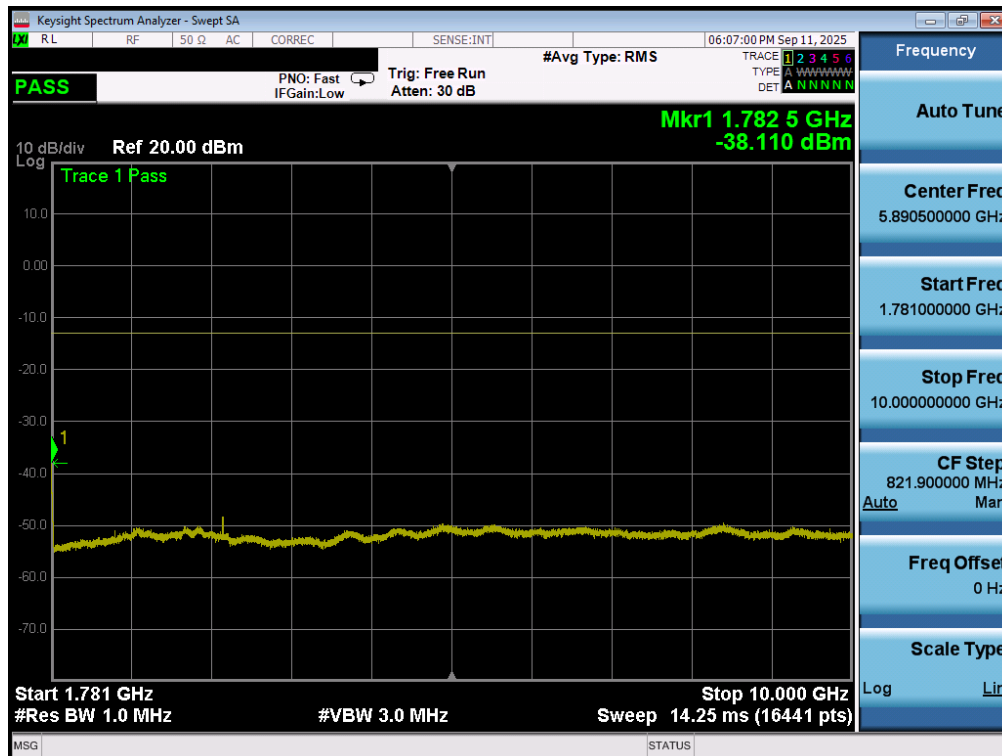
Plot 7-140. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB – Low Channel - ANT2)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT2



Plot 7-141. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)



Plot 7-142. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

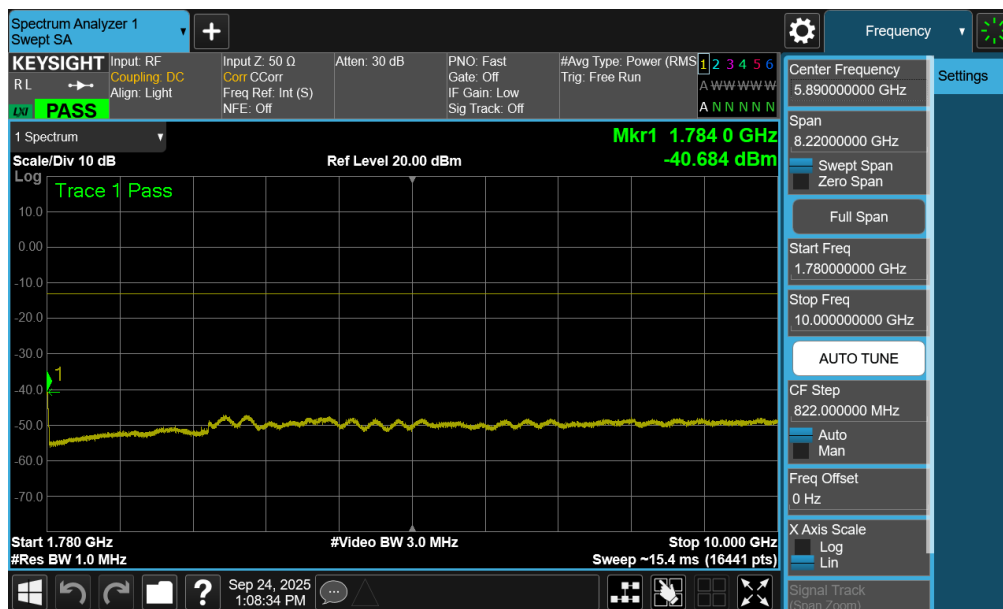
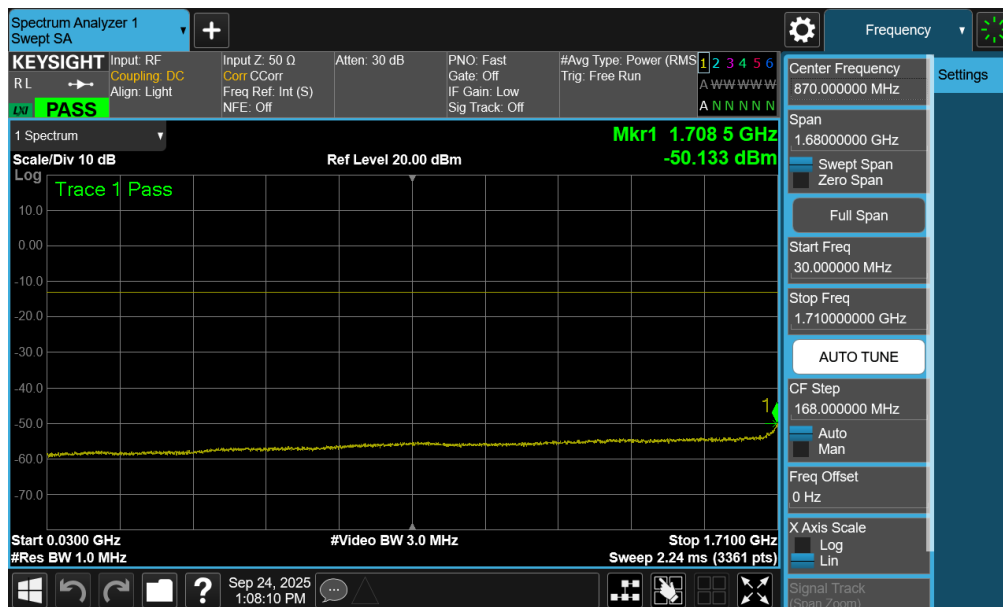
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-143. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT2



FCC ID: A3LSMS942B	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 its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

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 $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ 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.

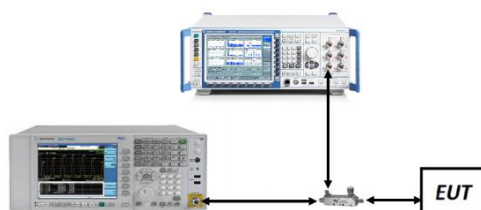


Figure 7-4. Test Instrument & Measurement Setup

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Test Notes

1. Per 27.53(h) for AWS band operation, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. 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 emission are attenuated at least 26 dB below the transmitter power.
2. Per 27.53(g) for operations in the 663 - 698 MHz and 698 – 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
4. For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is $65 + 10 \log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	Band Edge	-22.45	-13	-9.45
		Low	Extended	-15.37	-13	-2.37
		High	Band Edge	-25.29	-13	-12.29
		High	Extended	-18.83	-13	-5.83
LTE Band 66/4	20MHz	Low	Band Edge	-28.58	-13	-15.58
		Low	Extended	-26.45	-13	-13.45
		High (B4)	Band Edge	-27.73	-13	-14.73
		High (B4)	Extended	-27.27	-13	-14.27
		High (B66)	Band Edge	-26.46	-13	-13.46
		High (B66)	Extended	-26.17	-13	-13.17
	15MHz	Low	Band Edge	-25.97	-13	-12.97
		Low	Extended	-24.79	-13	-11.79
		High (B4)	Band Edge	-24.77	-13	-11.77
		High (B4)	Extended	-24.69	-13	-11.69
		High (B66)	Band Edge	-25.12	-13	-12.12
		High (B66)	Extended	-23.69	-13	-10.69
	10MHz	Low	Band Edge	-23.53	-13	-10.53
		Low	Extended	-20.79	-13	-7.79
		High (B4)	Band Edge	-25.80	-13	-12.80
		High (B4)	Extended	-21.40	-13	-8.40
		High (B66)	Band Edge	-23.35	-13	-10.35
		High (B66)	Extended	-21.18	-13	-8.18
	5MHz	Low	Band Edge	-21.06	-13	-8.06
		Low	Extended	-20.89	-13	-7.89
		High (B4)	Band Edge	-18.38	-13	-5.38
		High (B4)	Extended	-22.46	-13	-9.46
		High (B66)	Band Edge	-19.64	-13	-6.64
		High (B66)	Extended	-23.82	-13	-10.82
	3MHz	Low	Band Edge	-20.40	-13	-7.40
		Low	Extended	-21.23	-13	-8.23
		High (B4)	Band Edge	-20.09	-13	-7.09
		High (B4)	Extended	-20.62	-13	-7.62
		High (B66)	Band Edge	-20.63	-13	-7.63
		High (B66)	Extended	-24.26	-13	-11.26
	1.4MHz	Low	Band Edge	-22.52	-13	-9.52
		Low	Extended	-26.03	-13	-13.03
		High (B4)	Band Edge	-23.69	-13	-10.69
		High (B4)	Extended	-25.29	-13	-12.29
		High (B66)	Band Edge	-25.71	-13	-12.71
		High (B66)	Extended	-28.43	-13	-15.43

Table 7-17. Conducted Band Edge Results – Ant1

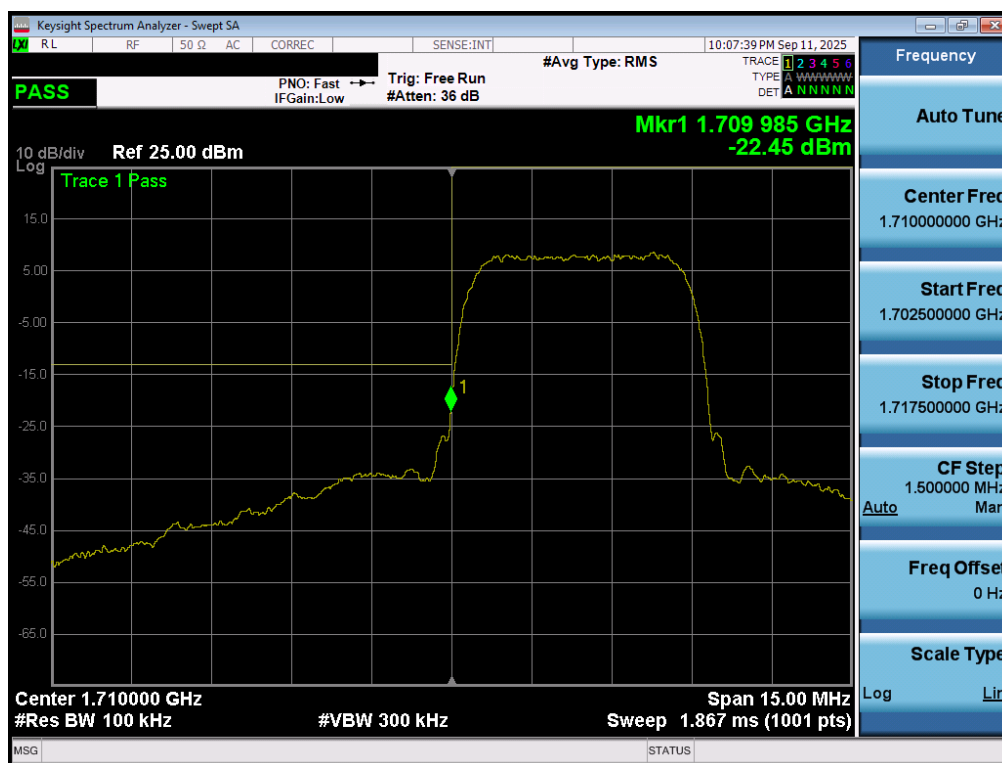
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12/17	10 MHz	Low (B12)	Band Edge	-24.57	-13	-11.57
		Low (B17)	Band Edge	-24.75	-13	-11.75
		High	Band Edge	-25.14	-13	-12.14
	5 MHz	Low (B12)	Band Edge	-18.28	-13	-5.28
		Low (B17)	Band Edge	-20.60	-13	-7.60
		High	Band Edge	-18.42	-13	-5.42
	3 MHz	Low	Band Edge	-16.77	-13	-3.77
		High	Band Edge	-22.58	-13	-9.58
	1.4 MHz	Low	Band Edge	-15.92	-13	-2.92
		High	Band Edge	-14.87	-13	-1.87
LTE Band 13	10 MHz	Low	Band Edge	-29.89	-13	-16.89
		Low	Emission Mask	-51.32	-35	-16.32
		High	Band Edge	-30.59	-13	-17.59
		High	Emission Mask	-53.00	-35	-18.00
	5 MHz	Low	Band Edge	-21.29	-13	-8.29
		Low	Emission Mask	-47.00	-35	-12.00
		High	Band Edge	-22.62	-13	-9.62
		High	Emission Mask	-54.42	-35	-19.42

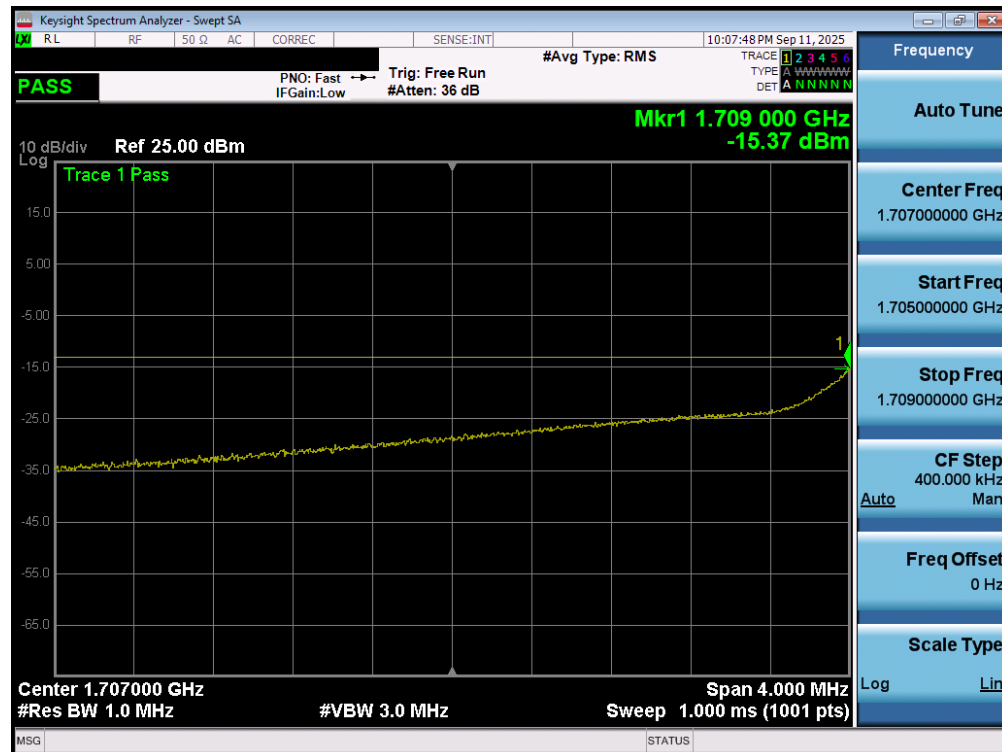
Table 7-18. Conducted Band Edge Results – Ant1

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS – ANT1



Plot 7-147. Lower Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT1)



Plot 7-148. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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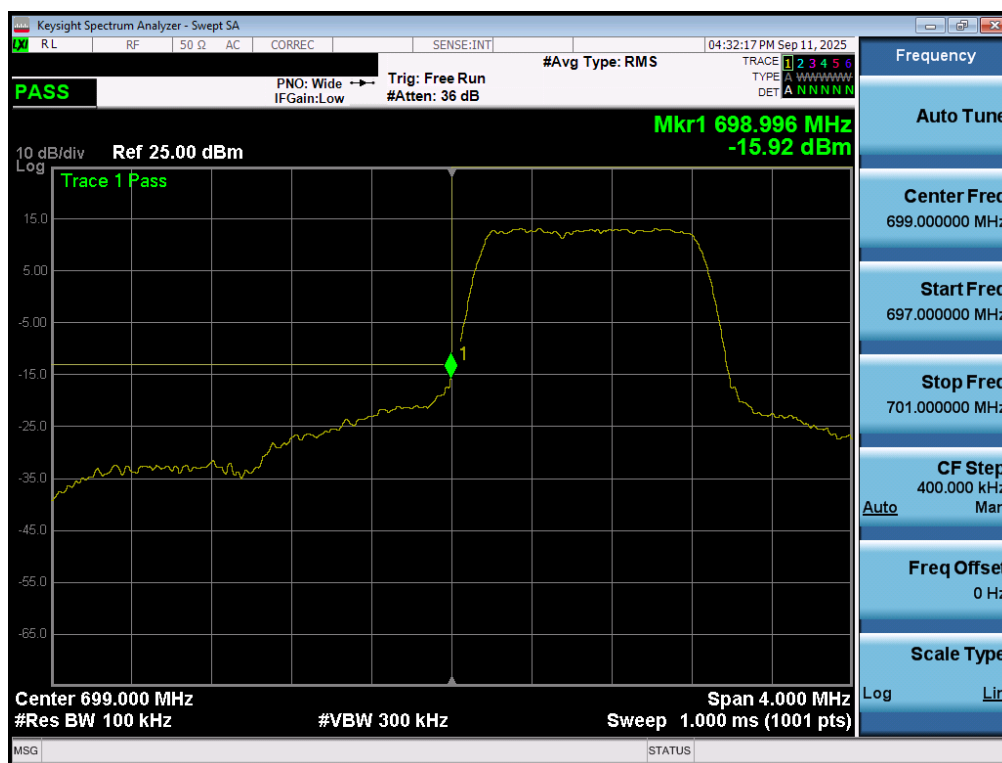
Plot 7-149. Upper Band Edge Plot (WCDMA AWS – Ch. 1513 – ANT1)



Plot 7-150. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513– ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12/17 – ANT1



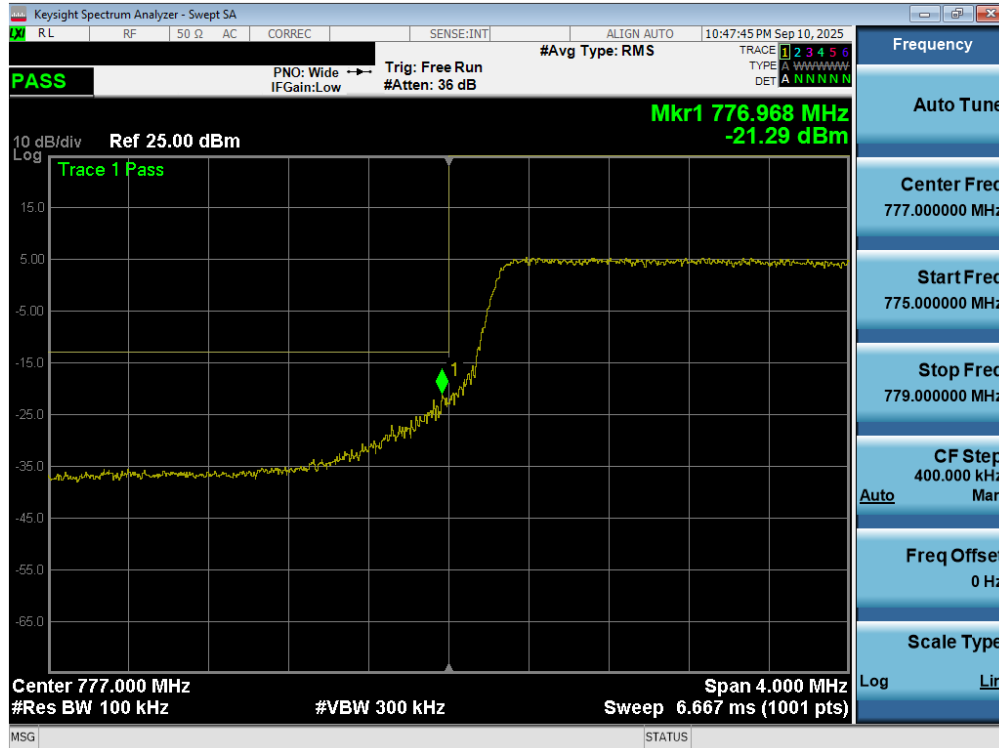
Plot 7-151. Lower Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB - ANT1)



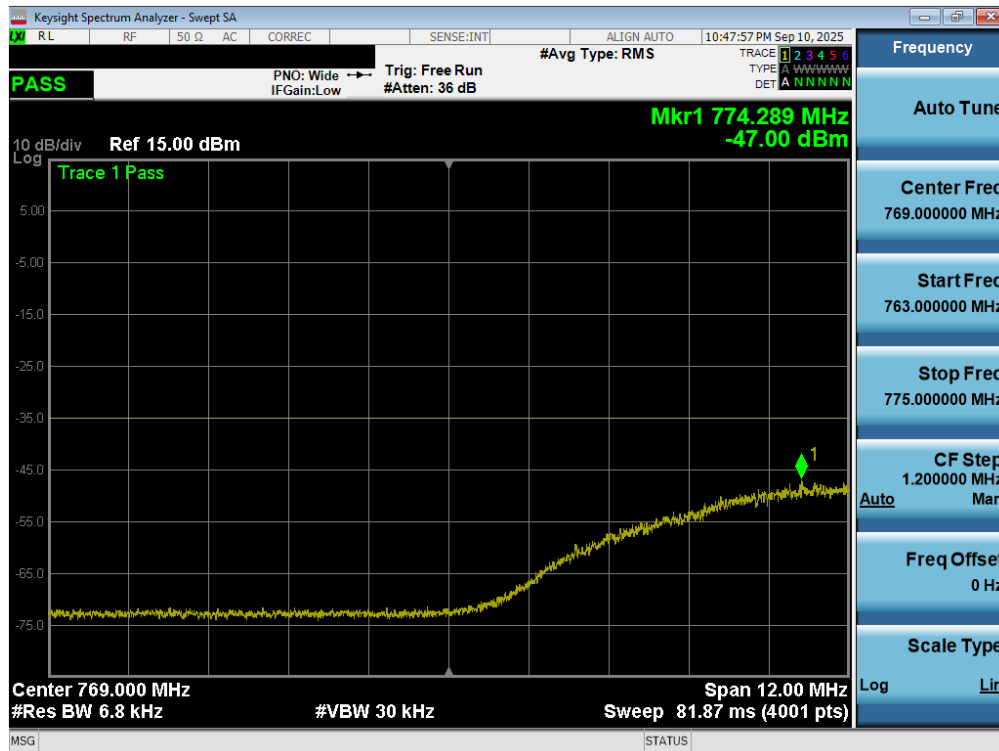
Plot 7-152. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB - ANT1)

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LTE Band 13 – ANT1

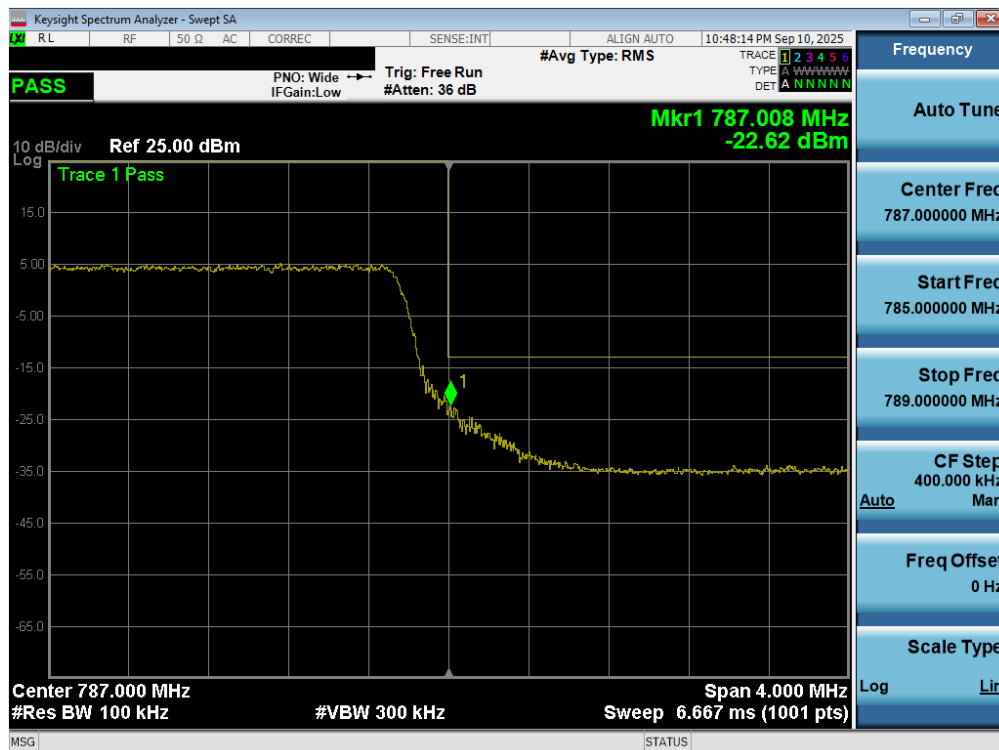


Plot 7-153. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

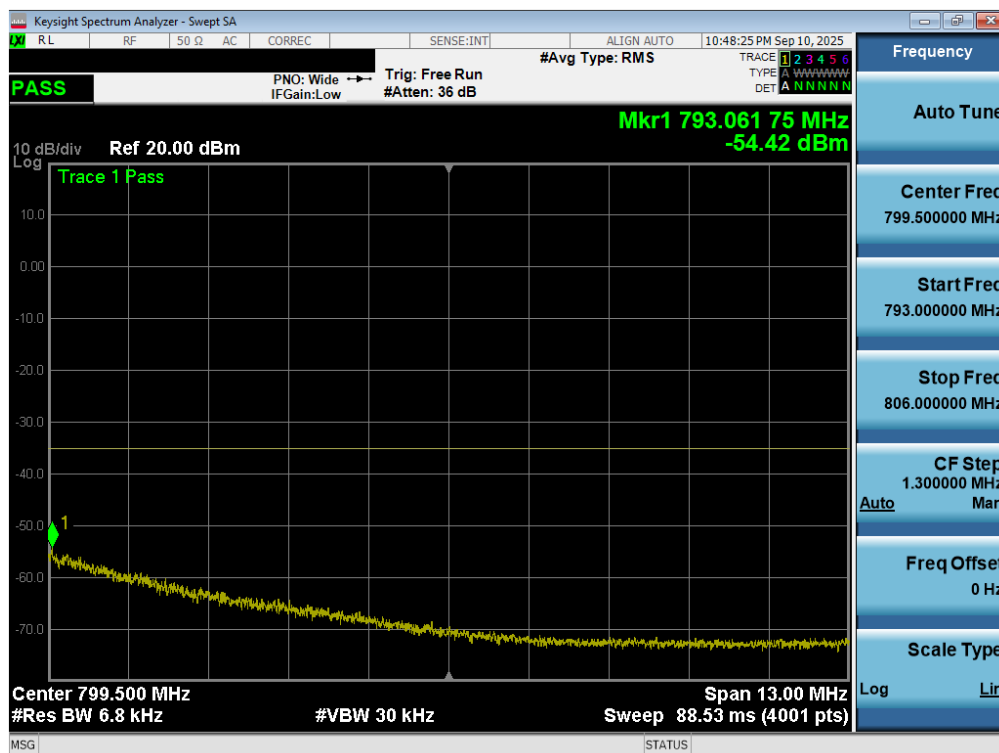


Plot 7-154. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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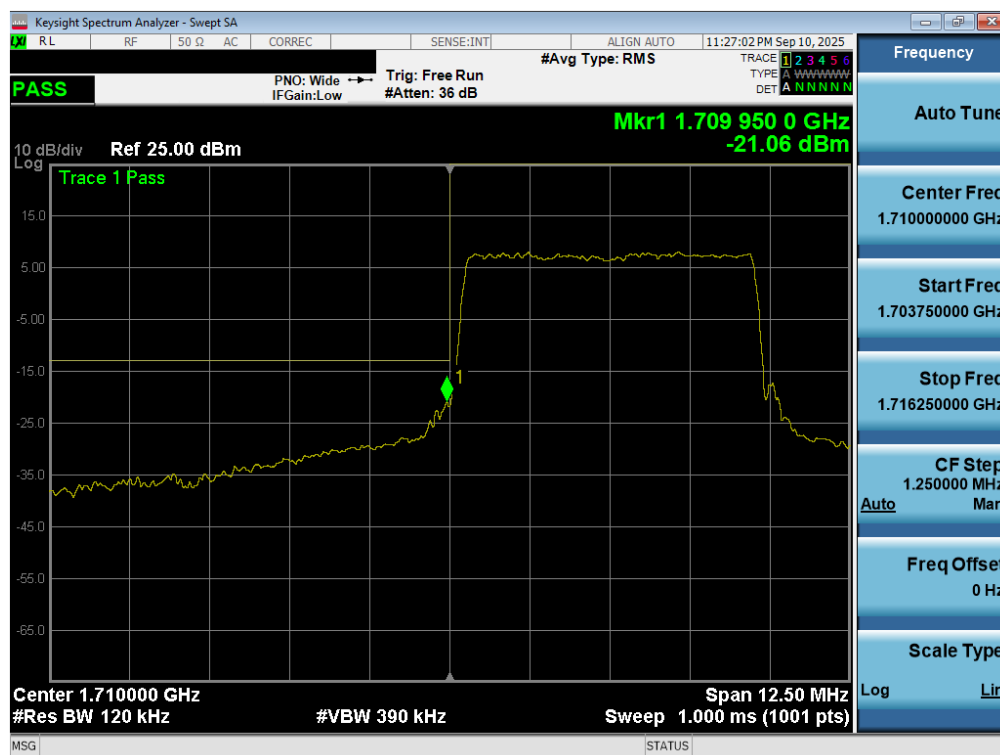
Plot 7-155. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)



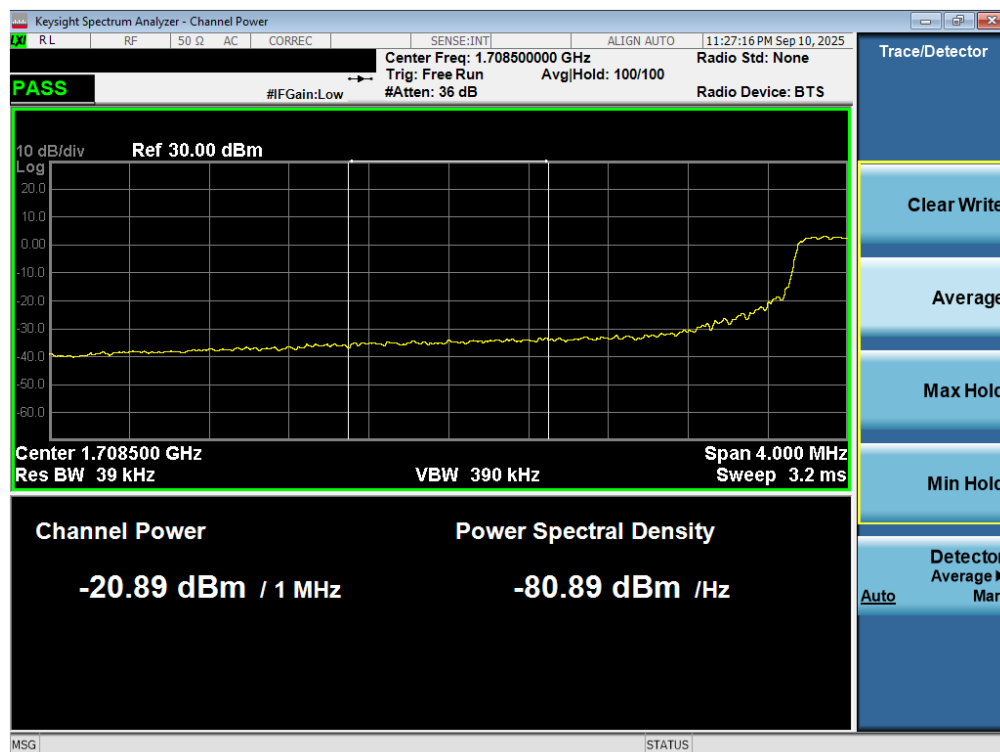
Plot 7-156. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT1



Plot 7-157. Lower Band Edge Plot (LTE Band 66/4 – 5MHz QPSK – Full RB - ANT1)

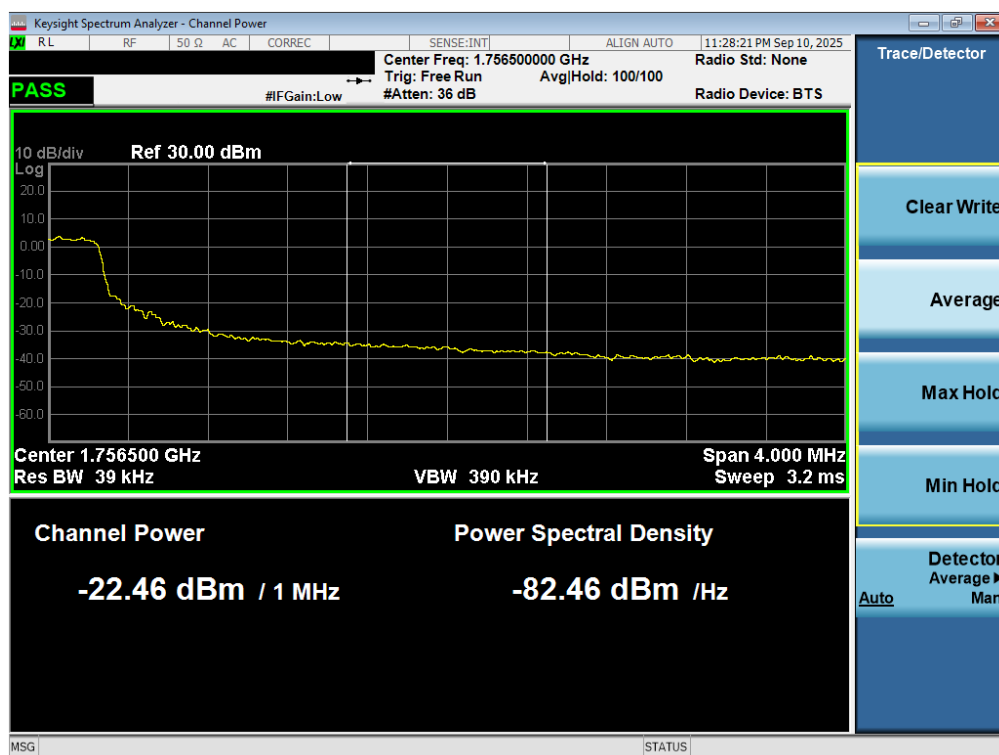


Plot 7-158. Lower Extended Band Edge Plot (LTE Band 66/4 – 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-159. Upper Band Edge Plot (LTE Band 4 – 5MHz QPSK – Full RB - ANT1)

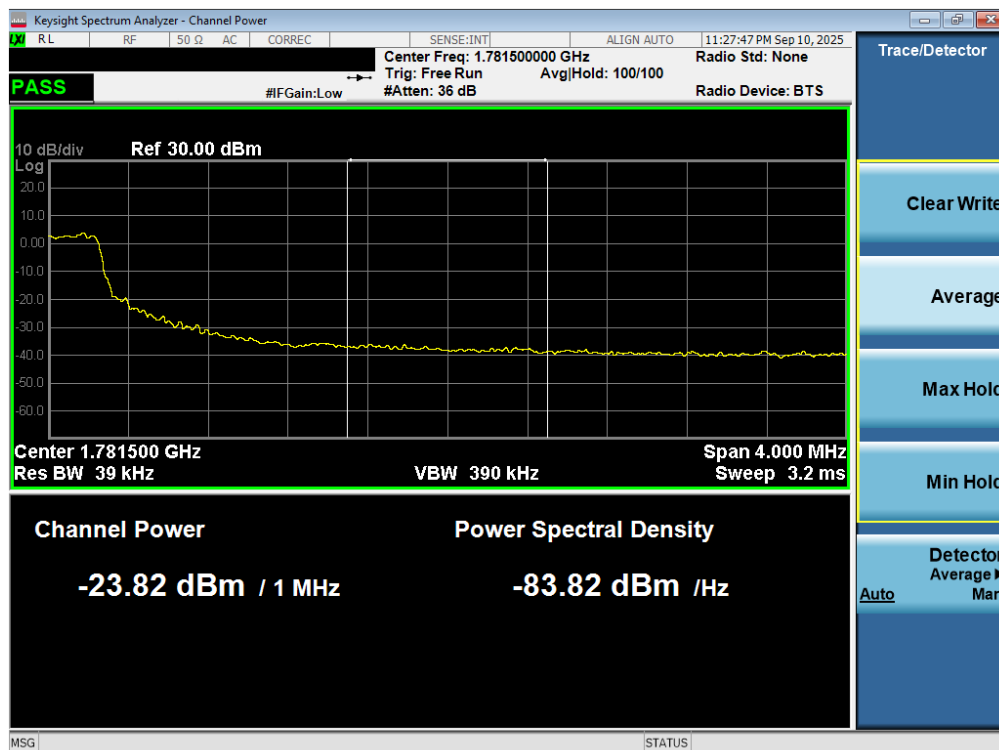


Plot 7-160. Upper Extended Band Edge Plot (LTE Band 4 – 5MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-161. Upper Band Edge Plot (LTE Band 66 – 5MHz QPSK – Full RB - ANT1)



Plot 7-162. Upper Extended Band Edge Plot (LTE Band 66 – 5MHz QPSK – Full RB - ANT1)

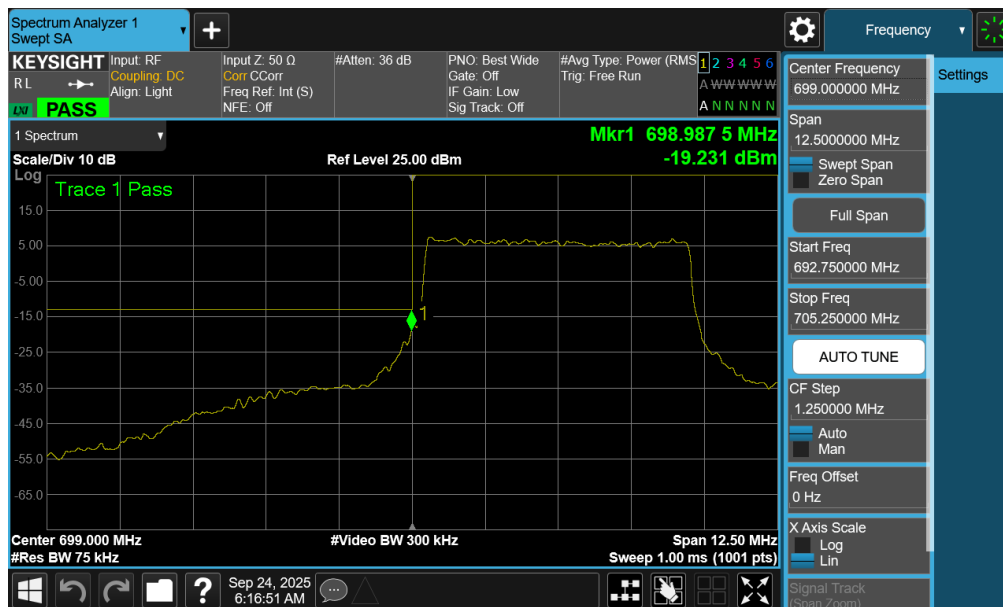
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n12	15 MHz	Low	Band Edge	-26.11	-13	-13.11
		High	Band Edge	-25.62	-13	-12.62
	10 MHz	Low	Band Edge	-24.09	-13	-11.09
		High	Band Edge	-24.56	-13	-11.56
	5 MHz	Low	Band Edge	-19.23	-13	-6.23
		High	Band Edge	-21.71	-13	-8.71
	40 MHz	Low	Band Edge	-25.13	-13	-12.13
		Low	Extended	-26.79	-13	-13.79
		High	Band Edge	-21.75	-13	-8.75
		High	Extended	-26.40	-13	-13.40
	30 MHz	Low	Band Edge	-22.61	-13	-9.61
		Low	Extended	-23.28	-13	-10.28
		High	Band Edge	-23.71	-13	-10.71
		High	Extended	-25.40	-13	-12.40
	25 MHz	Low	Band Edge	-24.52	-13	-11.52
		Low	Extended	-27.01	-13	-14.01
		High	Band Edge	-24.15	-13	-11.15
		High	Extended	-27.42	-13	-14.42
	20 MHz	Low	Band Edge	-26.49	-13	-13.49
		Low	Extended	-24.02	-13	-11.02
		High	Band Edge	-26.20	-13	-13.20
		High	Extended	-25.26	-13	-12.26
	15 MHz	Low	Band Edge	-27.09	-13	-14.09
		Low	Extended	-21.39	-13	-8.39
		High	Band Edge	-23.85	-13	-10.85
		High	Extended	-21.95	-13	-8.95
	10 MHz	Low	Band Edge	-24.38	-13	-11.38
		Low	Extended	-15.78	-13	-2.78
		High	Band Edge	-22.76	-13	-9.76
		High	Extended	-16.91	-13	-3.91
	5 MHz	Low	Band Edge	-21.90	-13	-8.90
		Low	Extended	-21.39	-13	-8.39
		High	Band Edge	-22.65	-13	-9.65
		High	Extended	-25.41	-13	-12.41
NR Band n66	15 MHz	Low	Band Edge	-26.11	-13	-13.11
		High	Band Edge	-25.62	-13	-12.62
	10 MHz	Low	Band Edge	-24.09	-13	-11.09
		High	Band Edge	-24.56	-13	-11.56
	5 MHz	Low	Band Edge	-19.23	-13	-6.23
		High	Band Edge	-21.71	-13	-8.71
	40 MHz	Low	Band Edge	-25.13	-13	-12.13
		Low	Extended	-26.79	-13	-13.79
		High	Band Edge	-21.75	-13	-8.75
		High	Extended	-26.40	-13	-13.40
	30 MHz	Low	Band Edge	-22.61	-13	-9.61
		Low	Extended	-23.28	-13	-10.28
		High	Band Edge	-23.71	-13	-10.71
		High	Extended	-25.40	-13	-12.40
	25 MHz	Low	Band Edge	-24.52	-13	-11.52
		Low	Extended	-27.01	-13	-14.01
		High	Band Edge	-24.15	-13	-11.15
		High	Extended	-27.42	-13	-14.42
	20 MHz	Low	Band Edge	-26.49	-13	-13.49
		Low	Extended	-24.02	-13	-11.02
		High	Band Edge	-26.20	-13	-13.20
		High	Extended	-25.26	-13	-12.26
	15 MHz	Low	Band Edge	-27.09	-13	-14.09
		Low	Extended	-21.39	-13	-8.39
		High	Band Edge	-23.85	-13	-10.85
		High	Extended	-21.95	-13	-8.95
	10 MHz	Low	Band Edge	-24.38	-13	-11.38
		Low	Extended	-15.78	-13	-2.78
		High	Band Edge	-22.76	-13	-9.76
		High	Extended	-16.91	-13	-3.91
	5 MHz	Low	Band Edge	-21.90	-13	-8.90
		Low	Extended	-21.39	-13	-8.39
		High	Band Edge	-22.65	-13	-9.65
		High	Extended	-25.41	-13	-12.41

Table 7-19. Conducted Band Edge Results – Ant1

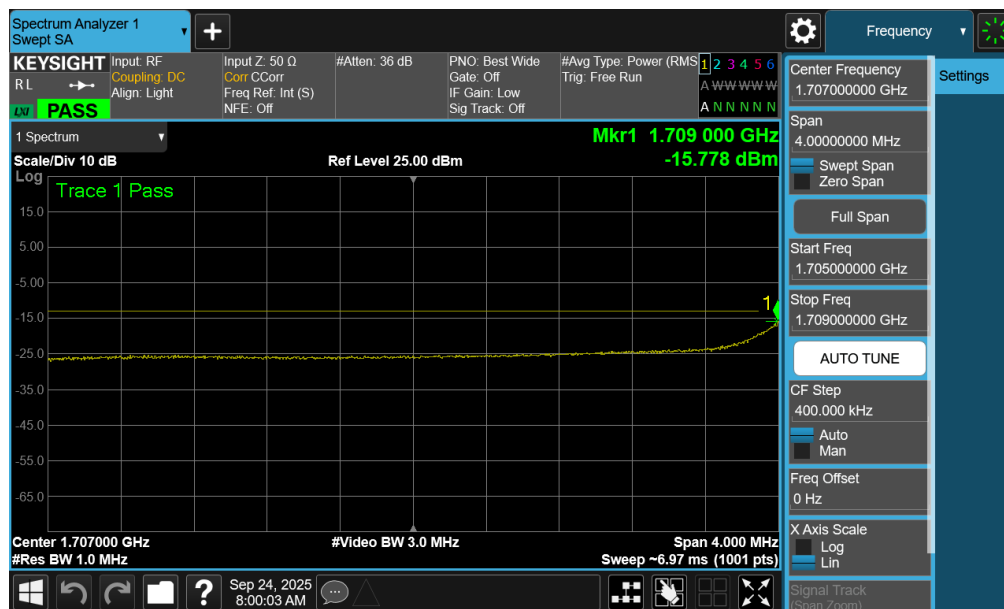
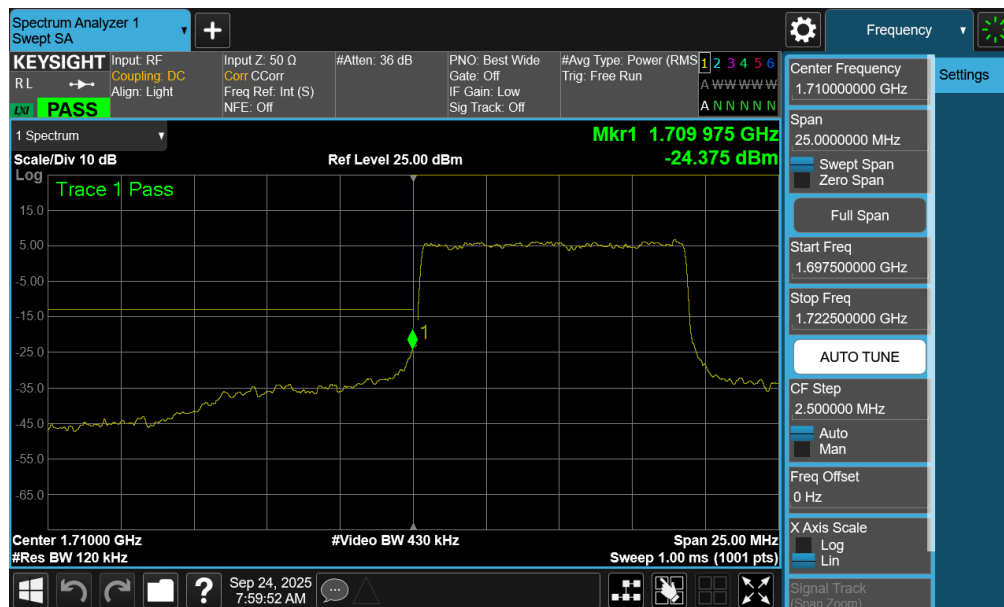
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12 – ANT1

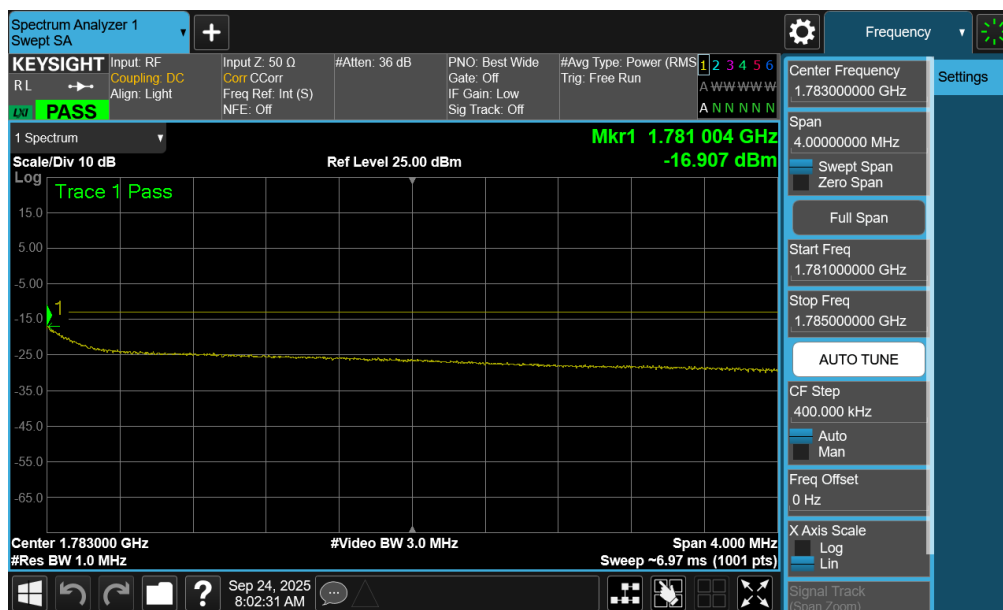


FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT1



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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	Band Edge	-23.16	-13	-10.16
		Low	Extended	-16.10	-13	-3.10
		High	Band Edge	-27.02	-13	-14.02
		High	Extended	-19.17	-13	-6.17
LTE Band 66/4	20MHz	Low	Band Edge	-31.90	-13	-18.90
		Low	Extended	-29.33	-13	-16.33
		High (B4)	Band Edge	-31.38	-13	-18.38
		High (B4)	Extended	-30.49	-13	-17.49
		High (B66)	Band Edge	-29.06	-13	-16.06
		High (B66)	Extended	-28.18	-13	-15.18
	15MHz	Low	Band Edge	-27.75	-13	-14.75
		Low	Extended	-27.02	-13	-14.02
		High (B4)	Band Edge	-29.34	-13	-16.34
		High (B4)	Extended	-28.04	-13	-15.04
		High (B66)	Band Edge	-27.25	-13	-14.25
		High (B66)	Extended	-28.10	-13	-15.10
	10MHz	Low	Band Edge	-25.60	-13	-12.60
		Low	Extended	-24.16	-13	-11.16
		High (B4)	Band Edge	-24.34	-13	-11.34
		High (B4)	Extended	-24.46	-13	-11.46
		High (B66)	Band Edge	-26.16	-13	-13.16
		High (B66)	Extended	-24.19	-13	-11.19
	5MHz	Low	Band Edge	-21.56	-13	-8.56
		Low	Extended	-29.18	-13	-16.18
		High (B4)	Band Edge	-20.92	-13	-7.92
		High (B4)	Extended	-26.67	-13	-13.67
		High (B66)	Band Edge	-23.48	-13	-10.48
		High (B66)	Extended	-27.31	-13	-14.31
	3MHz	Low	Band Edge	-19.25	-13	-6.25
		Low	Extended	-28.12	-13	-15.12
		High (B4)	Band Edge	-20.83	-13	-7.83
		High (B4)	Extended	-25.92	-13	-12.92
		High (B66)	Band Edge	-20.55	-13	-7.55
		High (B66)	Extended	-25.59	-13	-12.59
	1.4MHz	Low	Band Edge	-24.15	-13	-11.15
		Low	Extended	-34.64	-13	-21.64
		High (B4)	Band Edge	-24.89	-13	-11.89
		High (B4)	Extended	-34.46	-13	-21.46
		High (B66)	Band Edge	-25.21	-13	-12.21
		High (B66)	Extended	-35.23	-13	-22.23

Table 7-20. Conducted Band Edge Results – Ant2

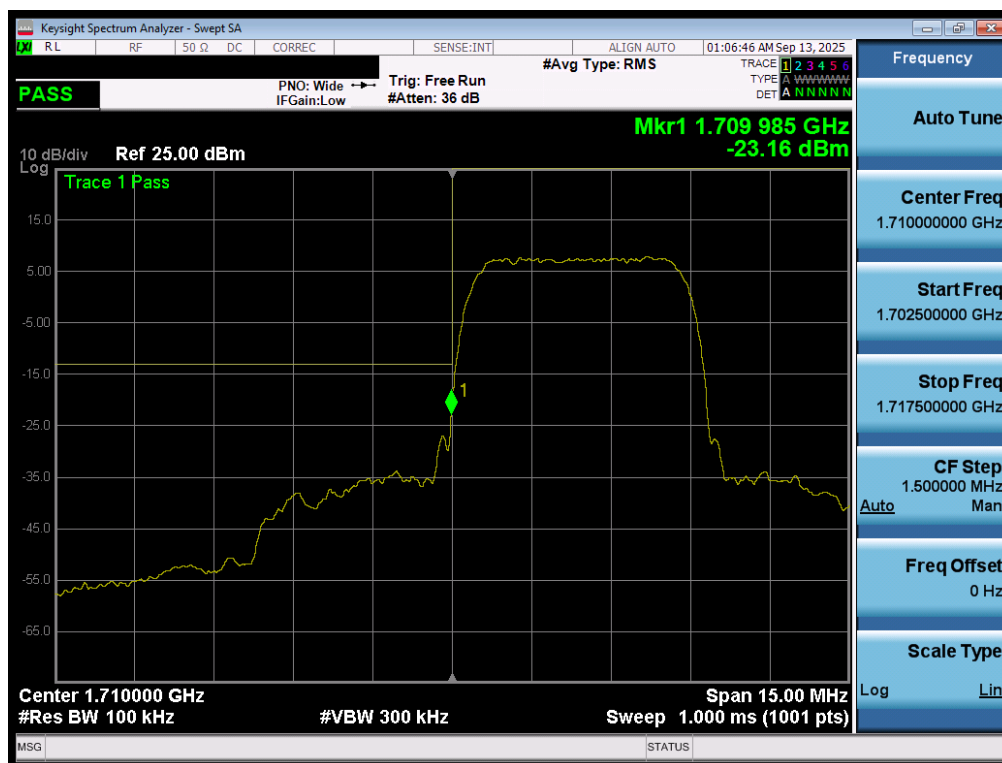
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12/17	10 MHz	Low (B12)	Band Edge	-24.25	-13	-11.25
		Low (B17)	Band Edge	-25.30	-13	-12.30
		High	Band Edge	-25.67	-13	-12.67
	5 MHz	Low (B12)	Band Edge	-19.58	-13	-6.58
		Low (B17)	Band Edge	-20.17	-13	-7.17
		High	Band Edge	-19.44	-13	-6.44
	3 MHz	Low	Band Edge	-17.24	-13	-4.24
		High	Band Edge	-17.14	-13	-4.14
	1.4 MHz	Low	Band Edge	-25.80	-13	-12.80
		High	Band Edge	-26.41	-13	-13.41
LTE Band 13	10 MHz	Low	Band Edge	-29.05	-13	-16.05
		Low	Emission Mask	-53.17	-35	-18.17
		High	Band Edge	-28.11	-13	-15.11
		High	Emission Mask	-50.95	-35	-15.95
	5 MHz	Low	Band Edge	-21.05	-13	-8.05
		Low	Emission Mask	-46.18	-35	-11.18
		High	Band Edge	-21.33	-13	-8.33
		High	Emission Mask	-54.14	-35	-19.14

Table 7-21. Conducted Band Edge Results – Ant2

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WCDMA AWS – ANT2



Plot 7-169. Lower Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT2)



Plot 7-170. Lower Extended Band Edge Plot (WCDMA AWS – Ch. 1312 – ANT2)

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