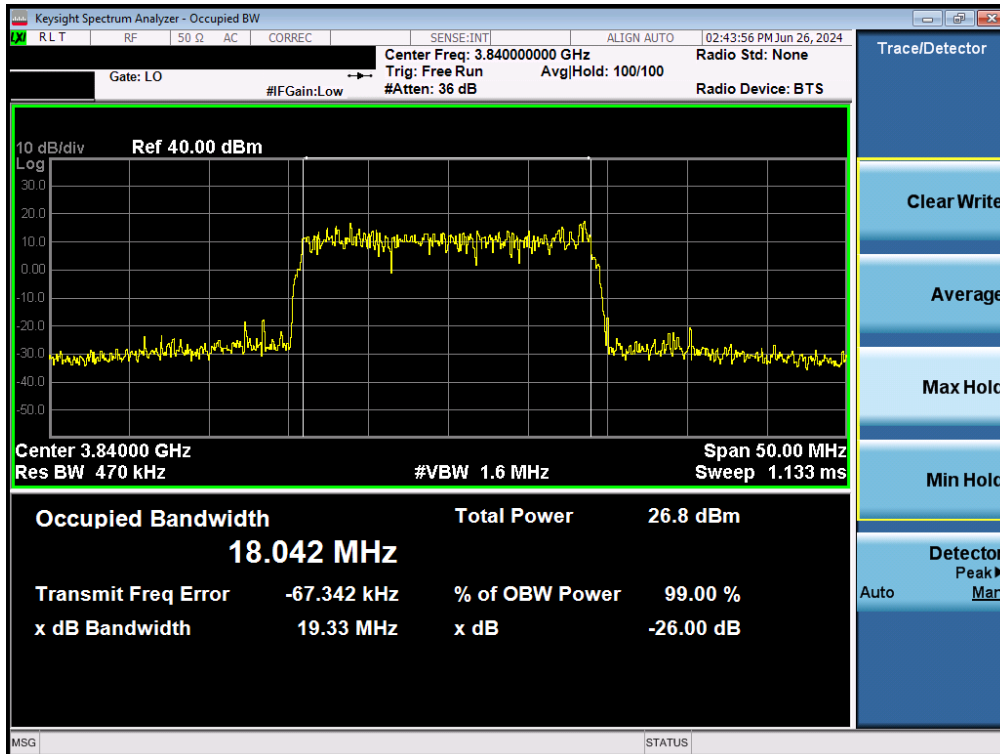
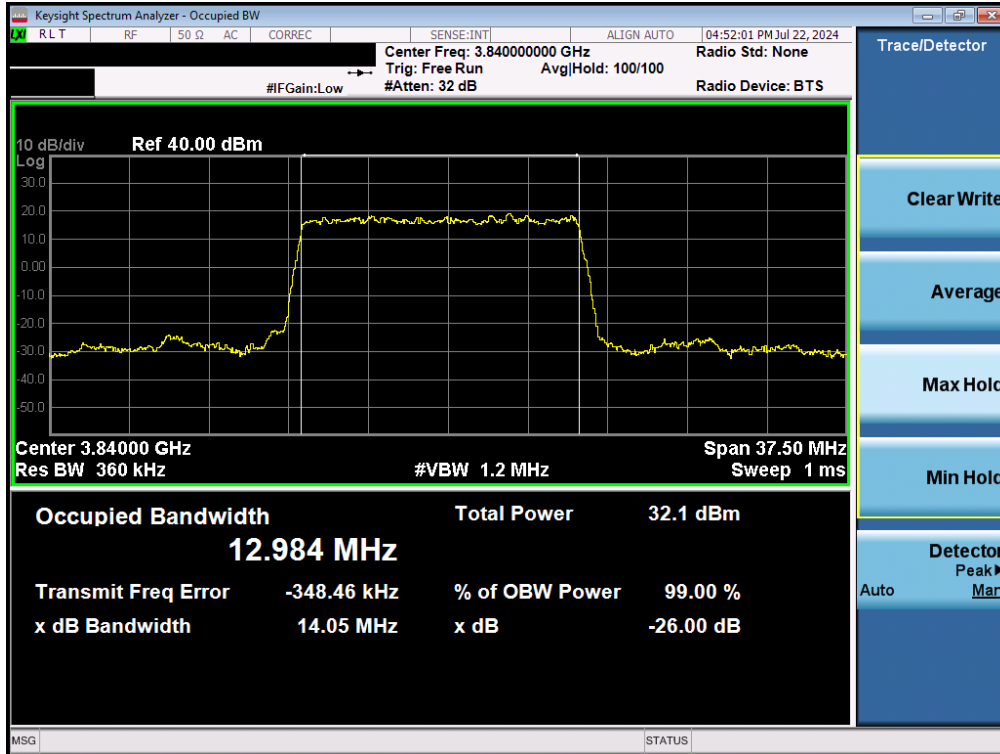


Plot 7-72. Occupied Bandwidth Plot (NR Band n77 C Band - 20MHz QPSK - Full RB - Ant M2)

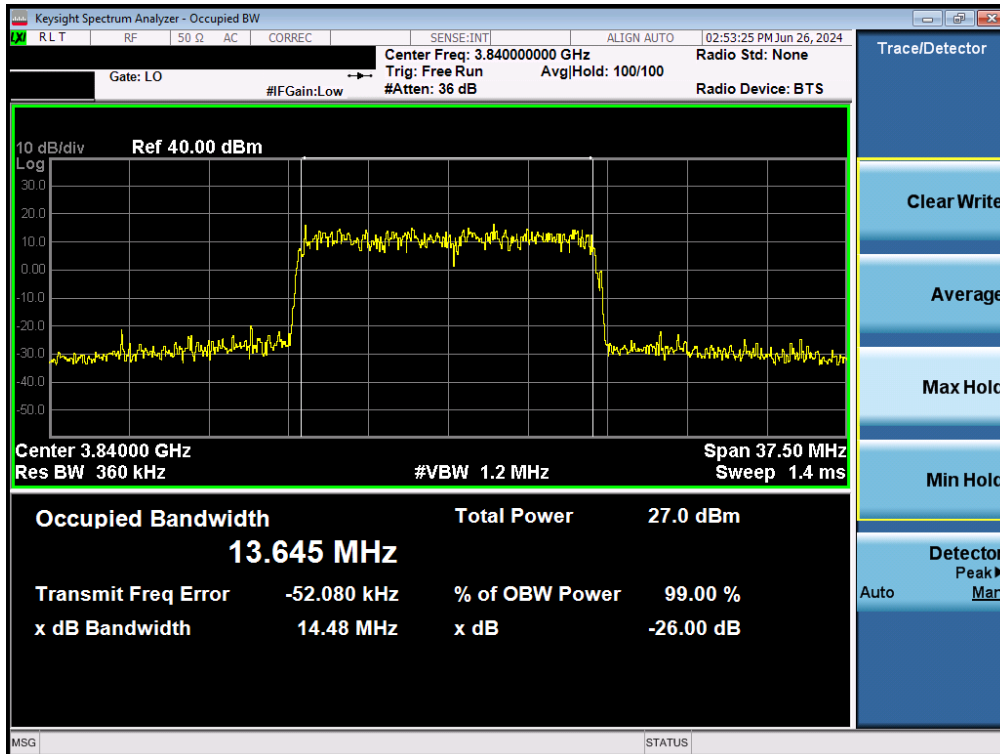


Plot 7-73. Occupied Bandwidth Plot (NR Band n77 C Band - 20MHz 16-QAM - Full RB - Ant M2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 51 of 123

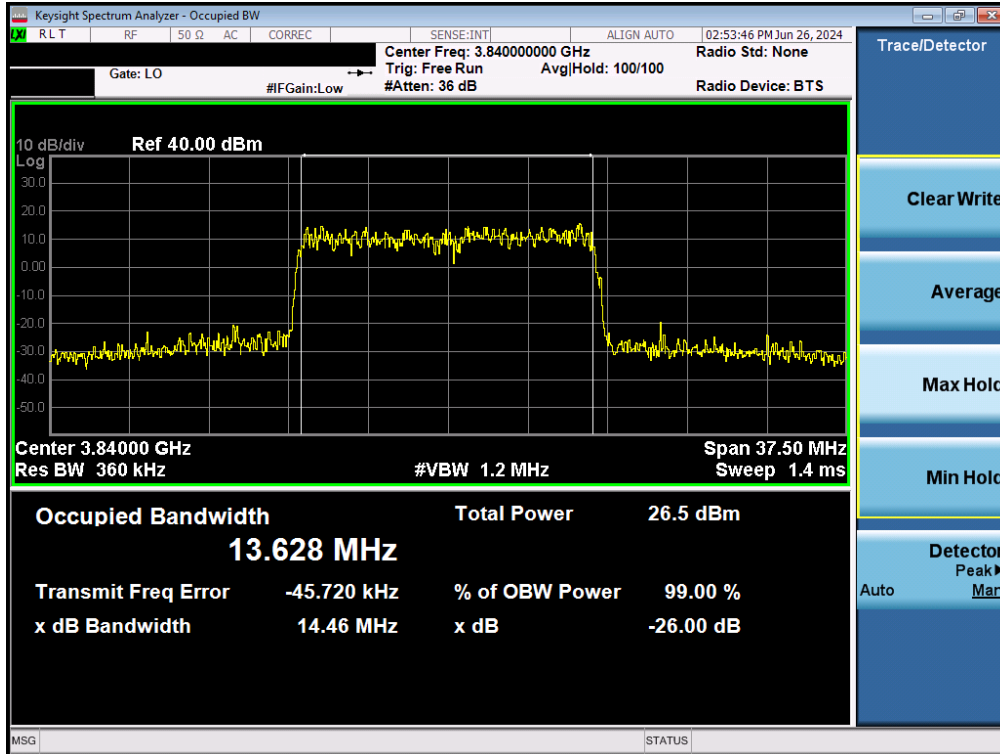


Plot 7-74. Occupied Bandwidth Plot (NR Band n77 C Band - 15MHz $\pi/2$ BPSK - Full RB - Ant M2)

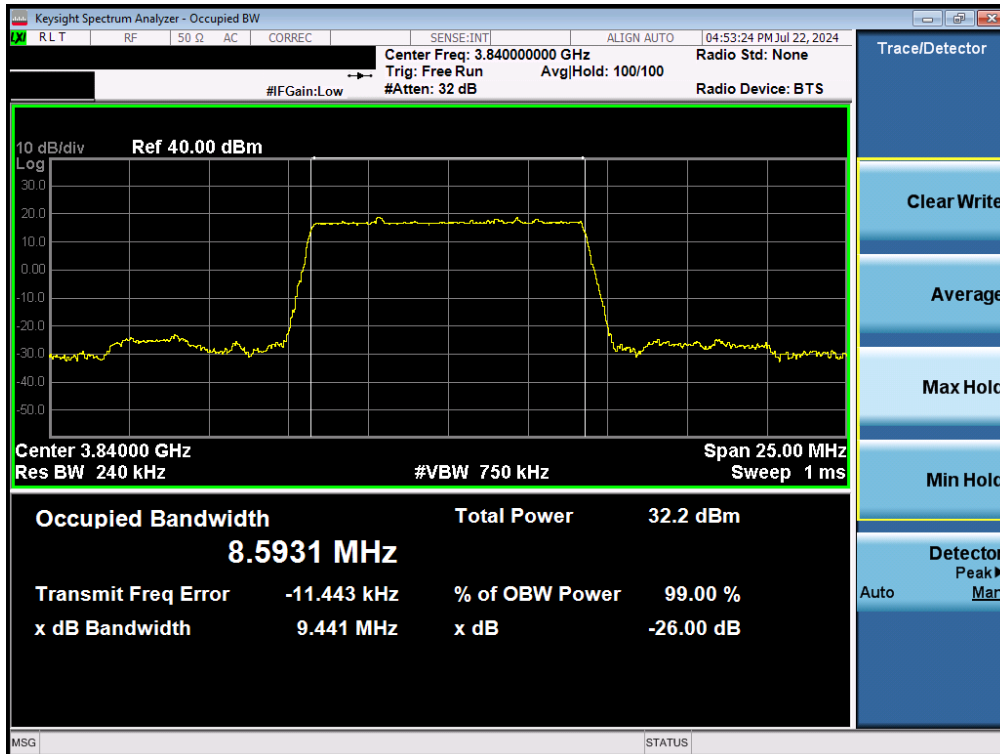


Plot 7-75. Occupied Bandwidth Plot (NR Band n77 C Band - 15MHz QPSK - Full RB - Ant M2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 52 of 123

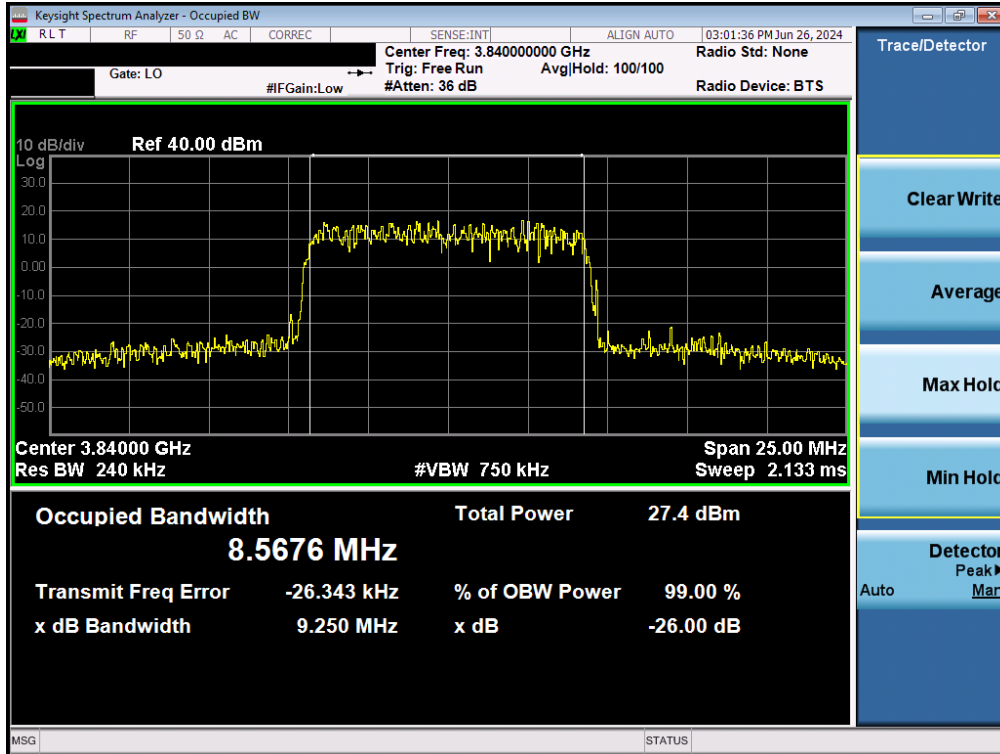


Plot 7-76. Occupied Bandwidth Plot (NR Band n77 C Band - 15MHz 16-QAM - Full RB - Ant M2)

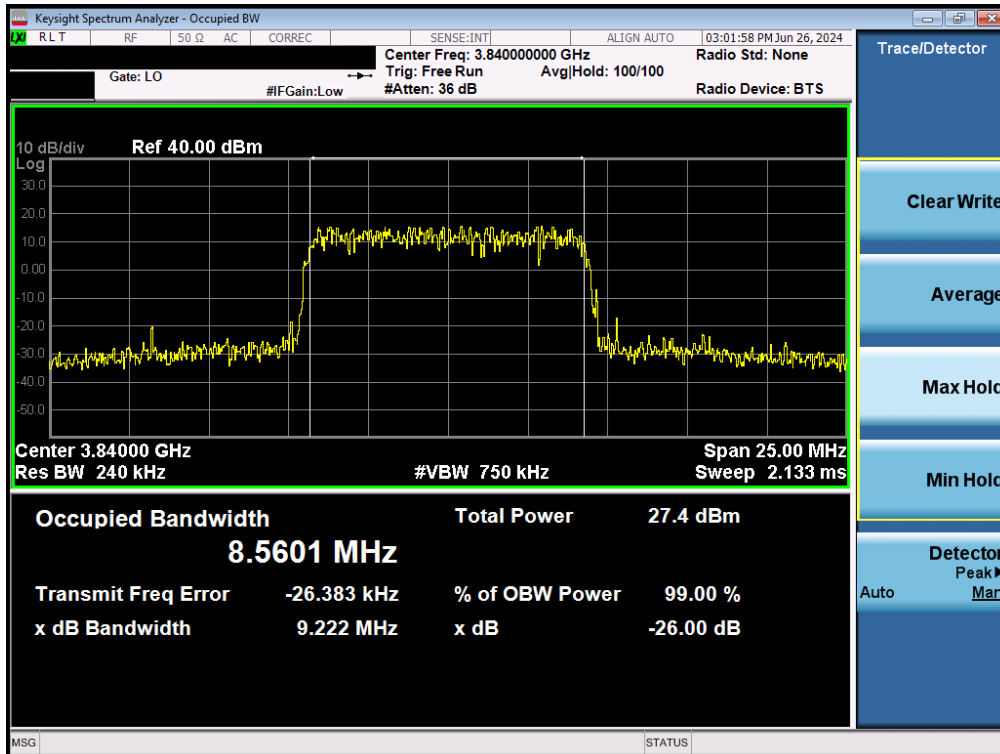


Plot 7-77. Occupied Bandwidth Plot (NR Band n77 C Band - 10MHz $\pi/2$ BPSK - Full RB - Ant M2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 53 of 123



Plot 7-78. Occupied Bandwidth Plot (NR Band n77 C Band - 10MHz QPSK - Full RB - Ant M2)



Plot 7-79. Occupied Bandwidth Plot (NR Band n77 C Band - 10MHz 16-QAM - Full RB - Ant M2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 54 of 123

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.

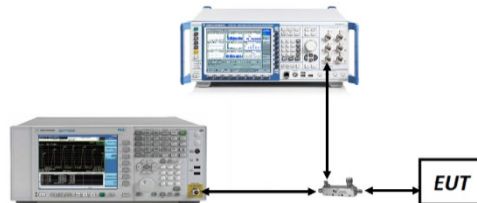


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27.53(l) and 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.

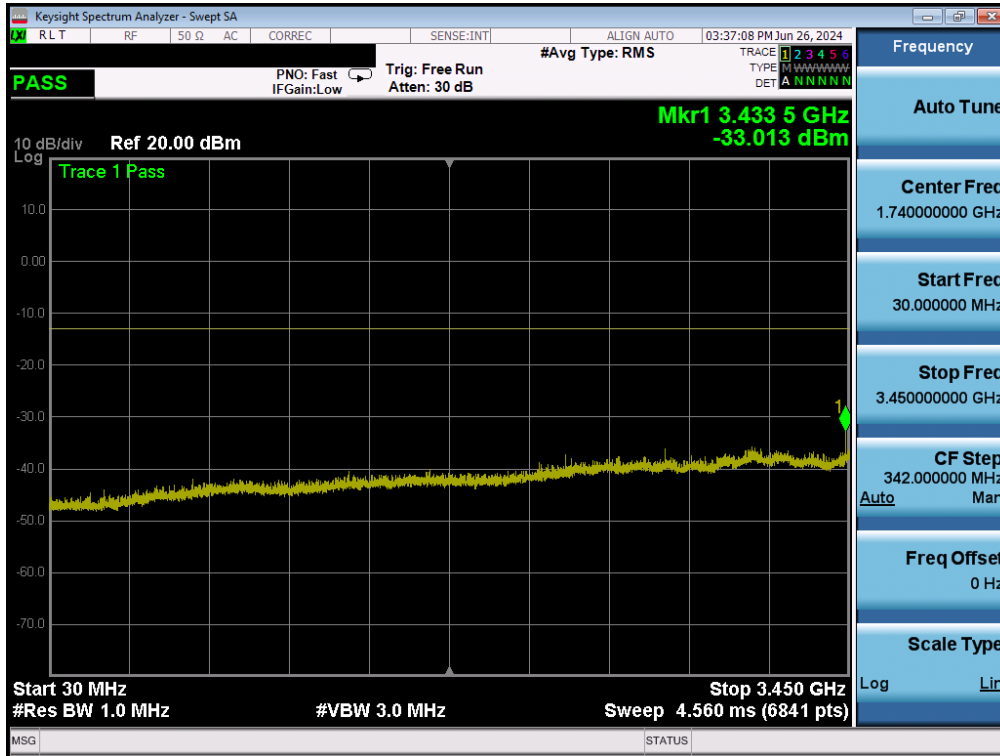
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 55 of 123

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-33.013	-13	-20.01
		Mid	3550.0 - 20000.0	-25.514	-13	-12.51
		Mid	20000.0 - 40000.0	-48.068	-13	-35.07
NR-n77PC2 C Band	100MHz	Low	30.0 - 3700.0	-31.549	-13	-18.55
		Low	3980.0 - 20000.0	-26.441	-13	-13.44
		Low	20000.0 - 40000.0	-48.614	-13	-35.61
		Mid	30.0 - 3700.0	-29.348	-13	-16.35
		Mid	3980.0 - 20000.0	-26.676	-13	-13.68
		Mid	20000.0 - 40000.0	-48.597	-13	-35.60
		High	30.0 - 3700.0	-32.955	-13	-19.96
		High	3980.0 - 20000.0	-26.657	-13	-13.66
		High	20000.0 - 40000.0	-49.441	-13	-36.44

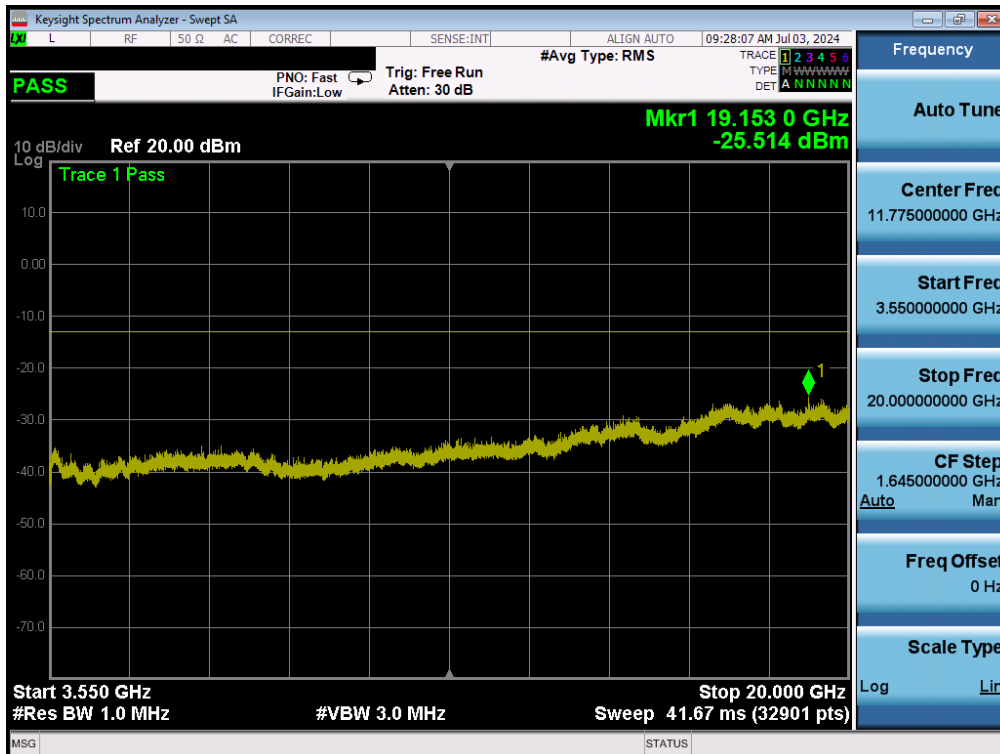
Table 7-5. Conducted Emission Test Results – Ant M2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 56 of 123

NR Band n77 DoD Band – Ant M2

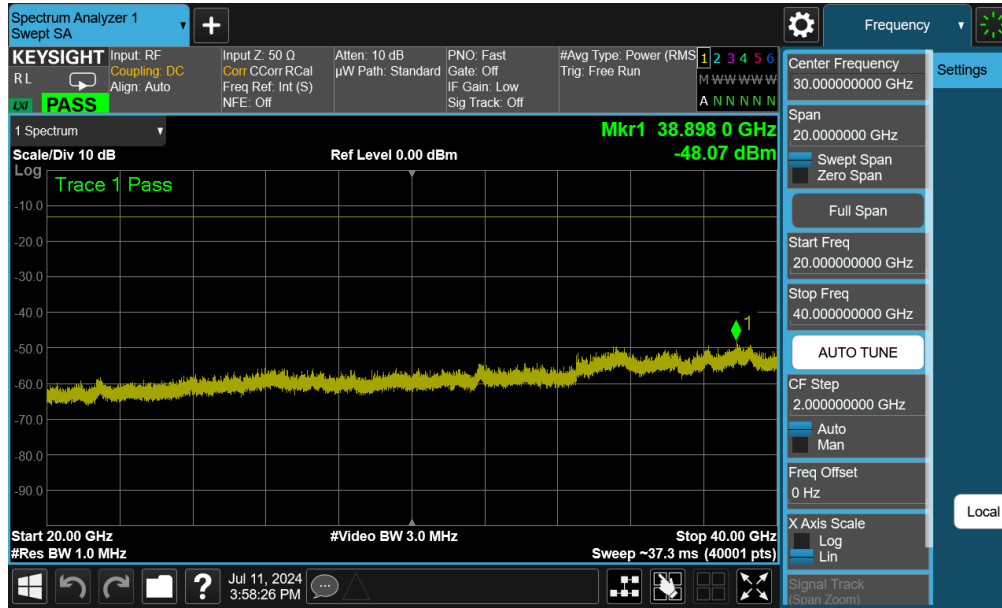


Plot 7-80. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant M2)



Plot 7-81. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant M2)

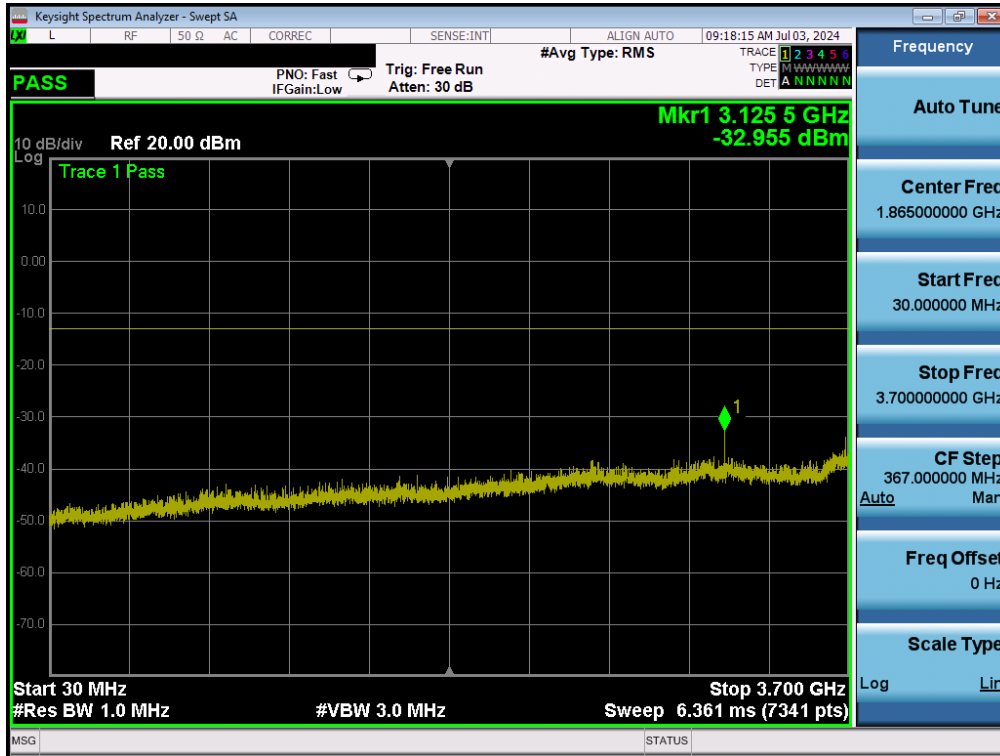
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 57 of 123



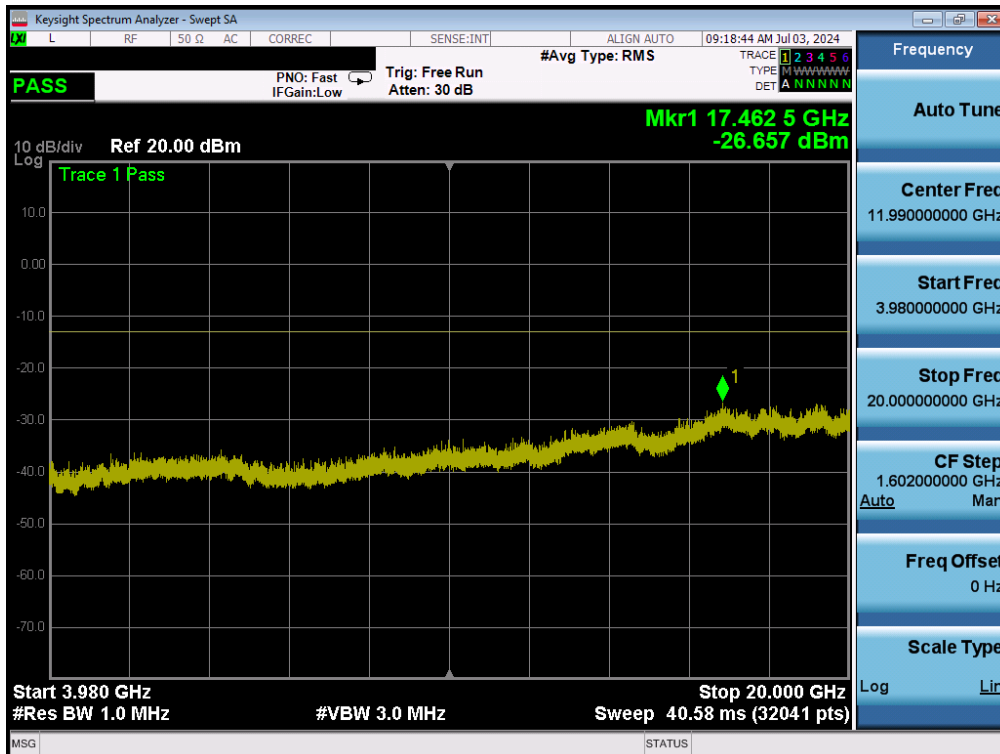
Plot 7-82. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant M2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 58 of 123

NR Band n77 C Band – Ant M2

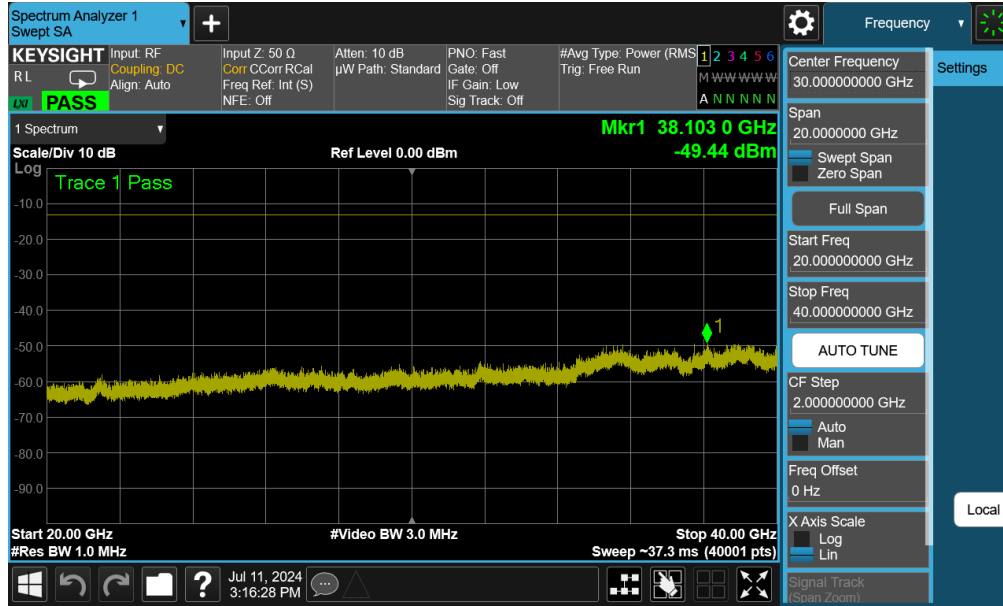


Plot 7-83. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant M2)



Plot 7-84. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant M2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 59 of 123



Plot 7-85. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant M2)

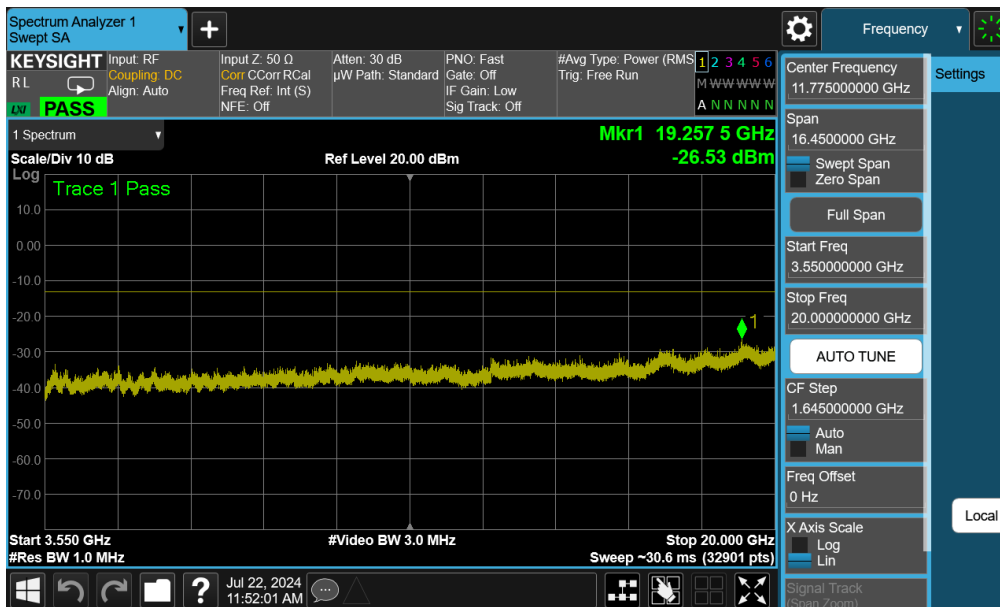
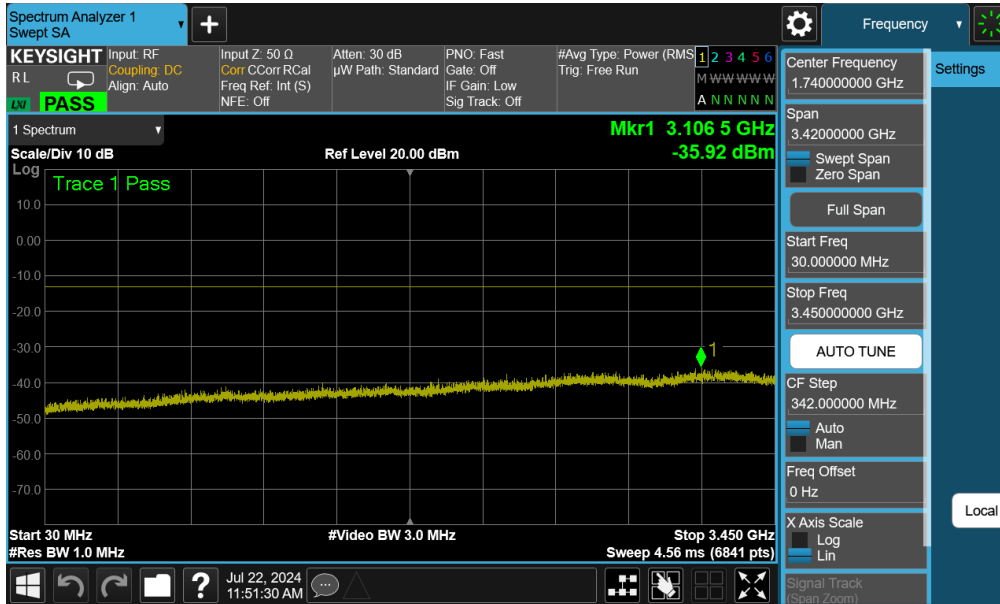
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 60 of 123

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-35.92	-13	-22.92
		Mid	3550.0 - 20000.0	-26.53	-13	-13.53
		Mid	20000.0 - 40000.0	-48.25	-13	-35.25
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-36.17	-13	-23.17
		Low	3980.0 - 20000.0	-26.52	-13	-13.52
		Low	20000.0 - 40000.0	-48.55	-13	-35.55
		Mid	30.0 - 3700.0	-36.79	-13	-23.79
		Mid	3980.0 - 20000.0	-27.22	-13	-14.22
		Mid	20000.0 - 40000.0	-47.84	-13	-34.84
		High	30.0 - 3700.0	-36.06	-13	-23.06
		High	3980.0 - 20000.0	-27.17	-13	-14.17
		High	20000.0 - 40000.0	-49.1	-13	-36.10

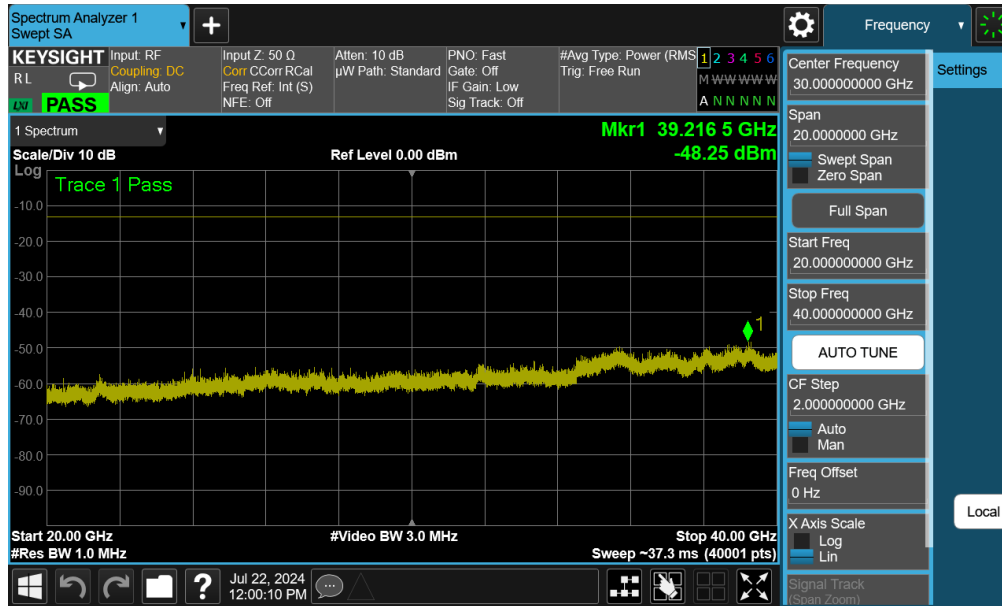
Table 7-6. Conducted Emission Test Results – Ant S2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 61 of 123

NR Band n77 DoD Band – Ant S2



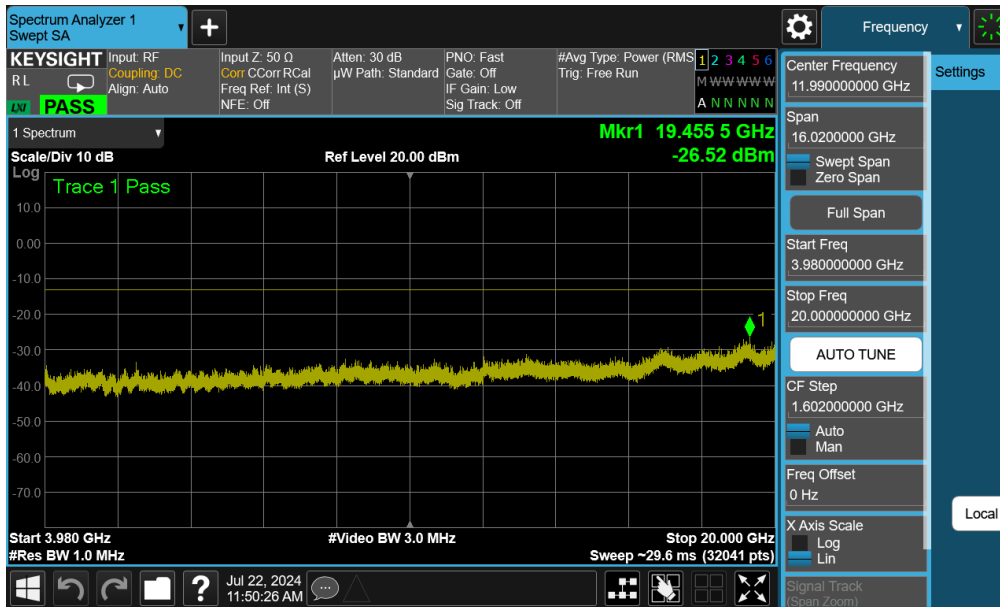
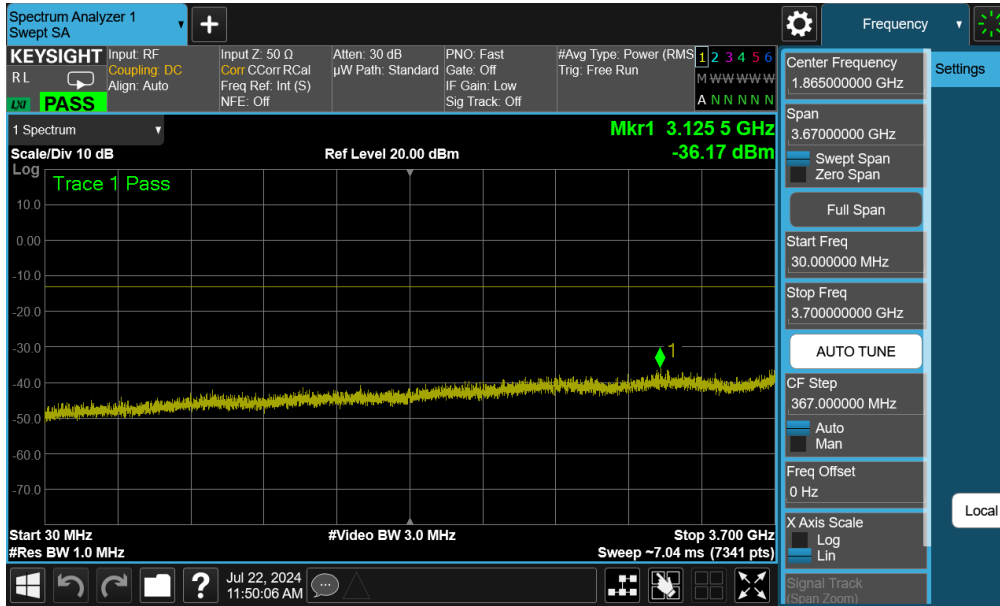
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 62 of 123



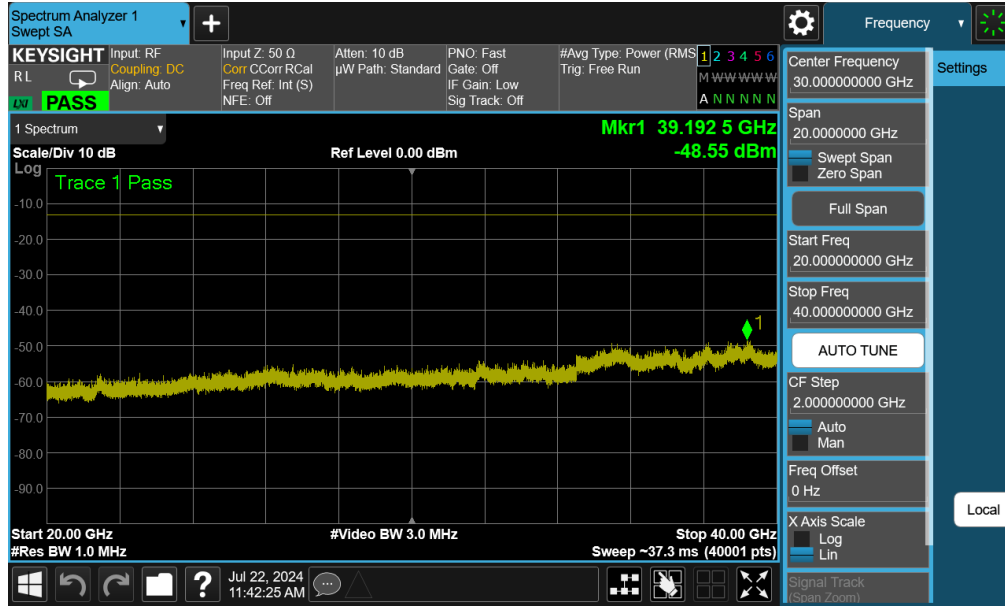
Plot 7-88. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 63 of 123

NR Band n77 C Band – Ant S2



FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 64 of 123



Plot 7-91. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel – Ant S2)

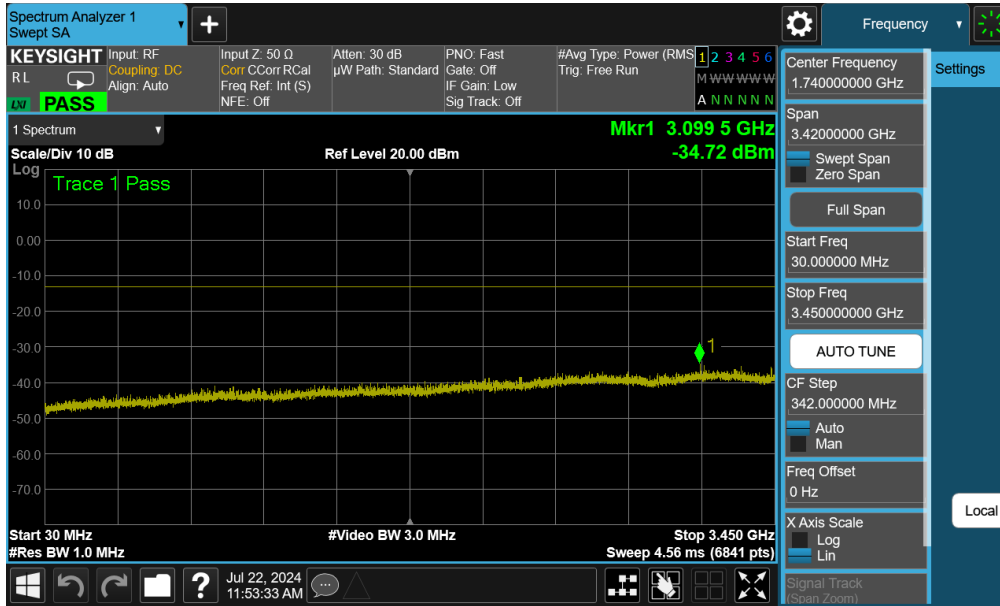
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 65 of 123

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-34.72	-13	-21.72
		Mid	3550.0 - 20000.0	-27.16	-13	-14.16
		Mid	20000.0 - 40000.0	-49.1	-13	-36.10
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-35.95	-13	-22.95
		Low	3980.0 - 20000.0	-26.61	-13	-13.61
		Low	20000.0 - 40000.0	-48.95	-13	-35.95
		Mid	30.0 - 3700.0	-34.35	-13	-21.34
		Mid	3980.0 - 20000.0	-26.02	-13	-13.02
		Mid	20000.0 - 40000.0	-48.69	-13	-35.69
		High	30.0 - 3700.0	-34.68	-13	-21.68
		High	3980.0 - 20000.0	-27.3	-13	-14.30
		High	20000.0 - 40000.0	-47.72	-13	-34.72

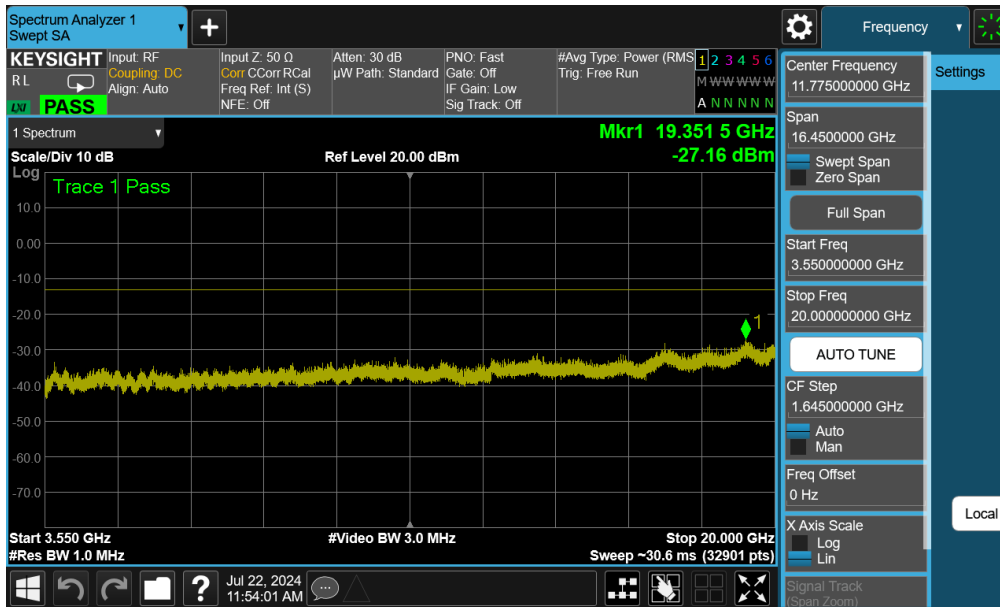
Table 7-7. Conducted Emission Test Results – Ant S4

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 66 of 123

NR Band n77 DoD Band – Ant S4

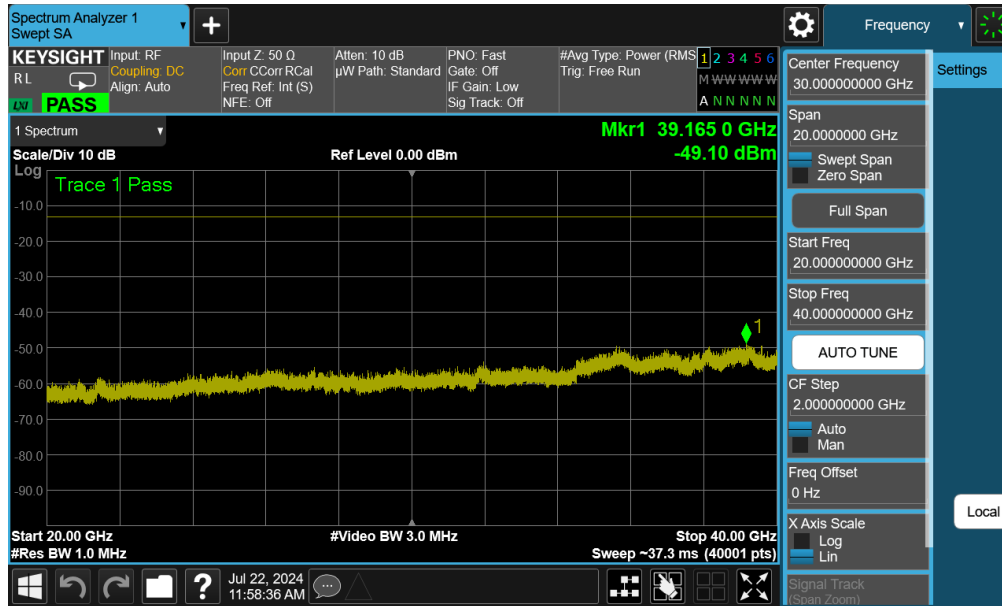


Plot 7-92. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S4)



Plot 7-93. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S4)

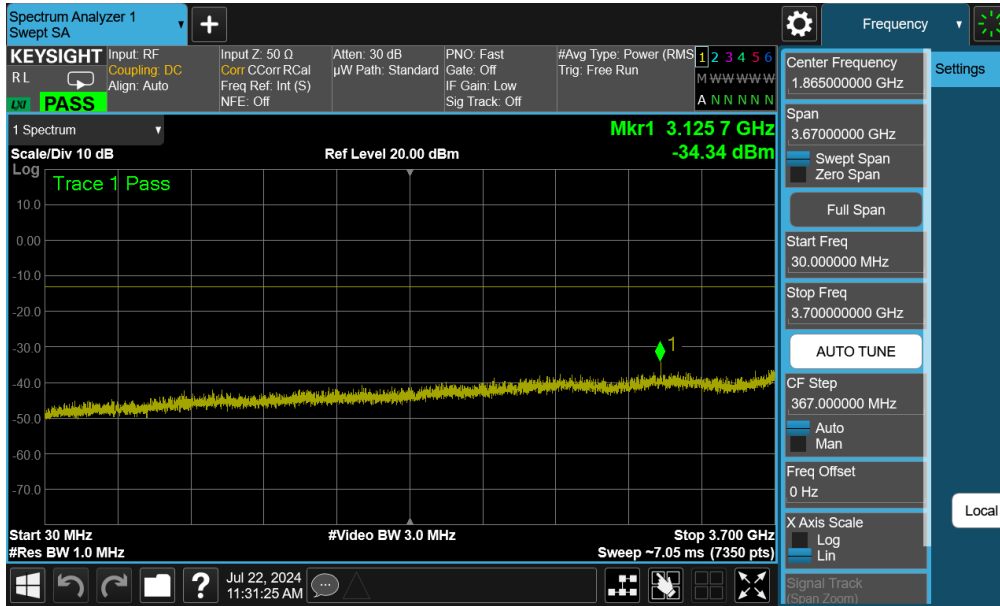
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 67 of 123



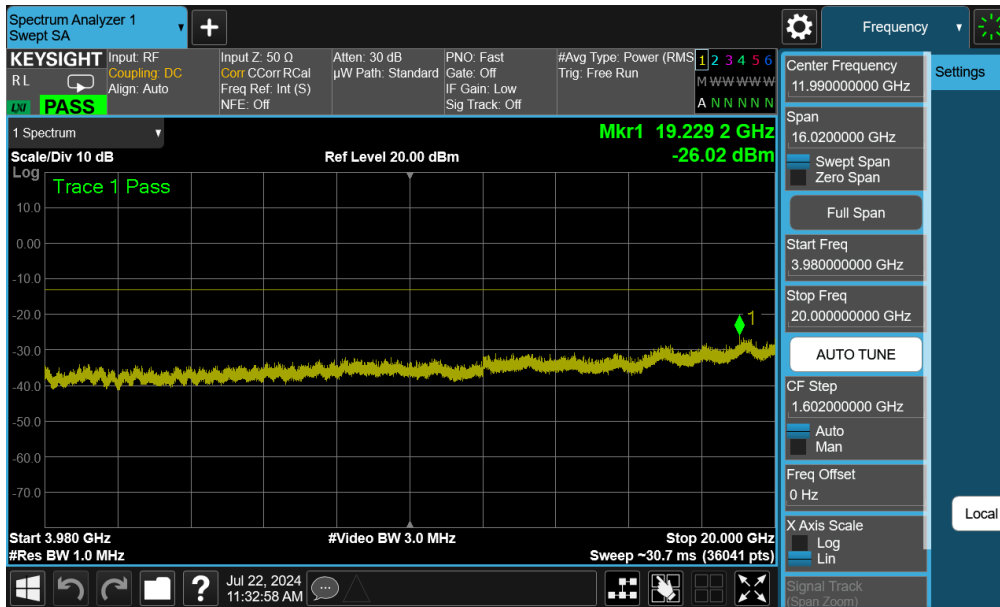
Plot 7-94. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S4)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 68 of 123

NR Band n77 C Band – Ant S4

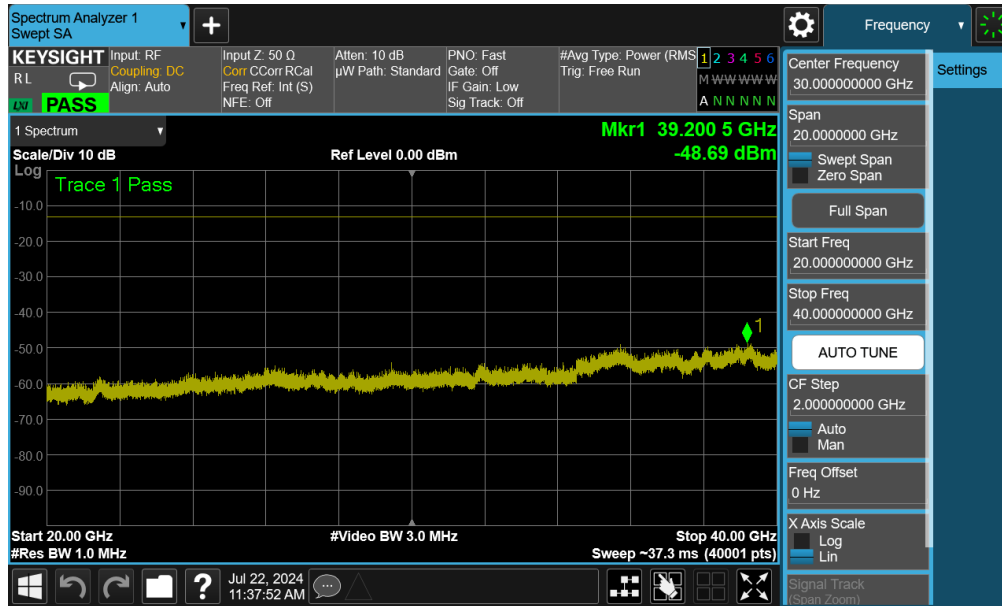


Plot 7-95. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S4)



Plot 7-96. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S4)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 69 of 123



Plot 7-97. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S4)

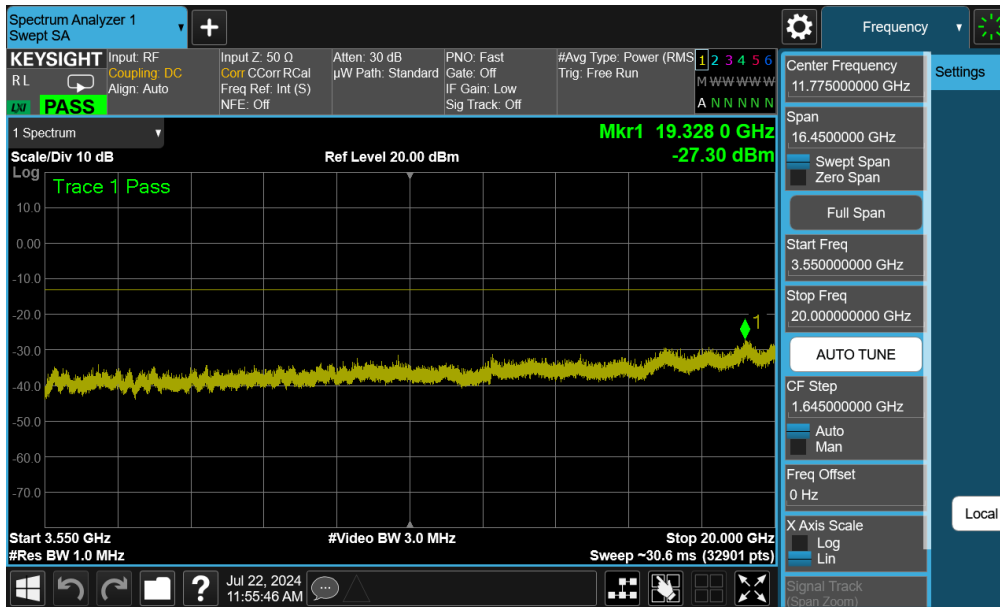
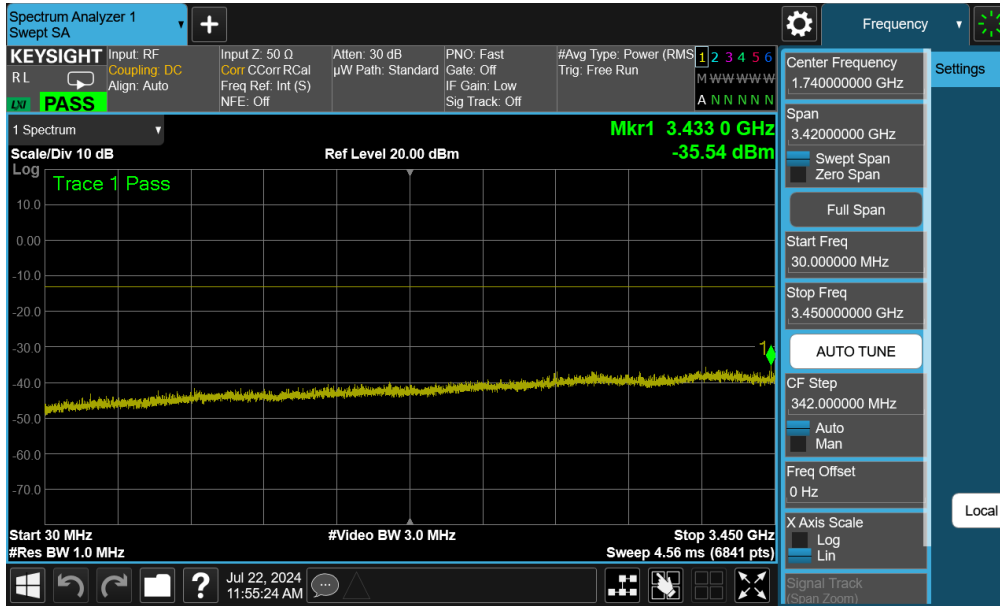
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 70 of 123

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Mid	30.0 - 3450.0	-35.54	-13	-22.54
		Mid	3550.0 - 20000.0	-27.3	-13	-14.30
		Mid	20000.0 - 40000.0	-48.79	-13	-35.79
NR-n77 PC2 C Band	100MHz	Low	30.0 - 3700.0	-36.14	-13	-23.14
		Low	3980.0 - 20000.0	-27.04	-13	-14.04
		Low	20000.0 - 40000.0	-48.93	-13	-35.93
		Mid	30.0 - 3700.0	-35.17	-13	-22.17
		Mid	3980.0 - 20000.0	-27.42	-13	-14.42
		Mid	20000.0 - 40000.0	-48.07	-13	-35.07
		High	30.0 - 3700.0	-34.24	-13	-21.24
		High	3980.0 - 20000.0	-27.08	-13	-14.08
		High	20000.0 - 40000.0	-48.73	-13	-35.73

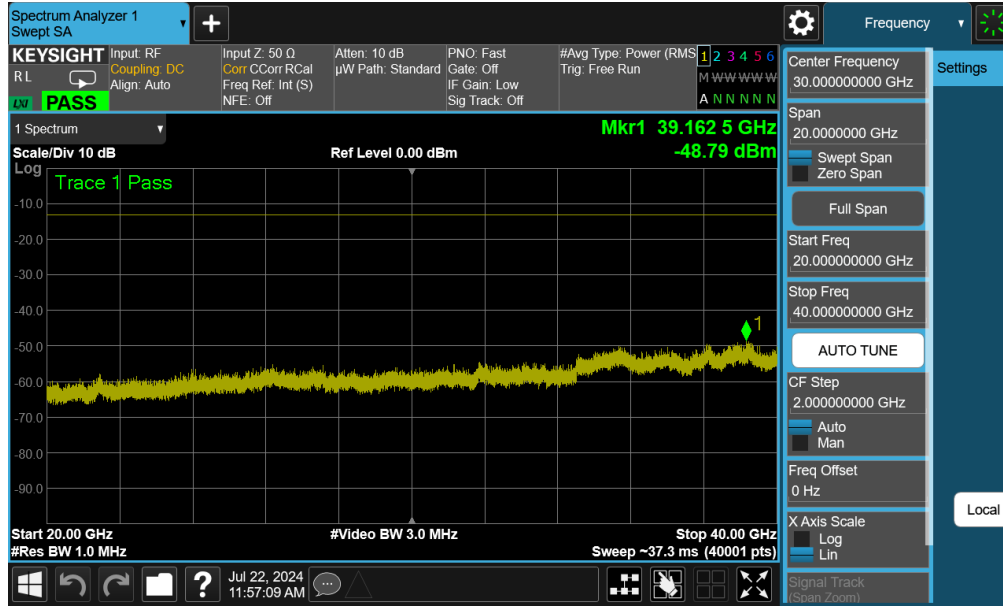
Table 7-8. Conducted Emission Test Results – Ant S3

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 71 of 123

NR Band n77 DoD Band – Ant S3



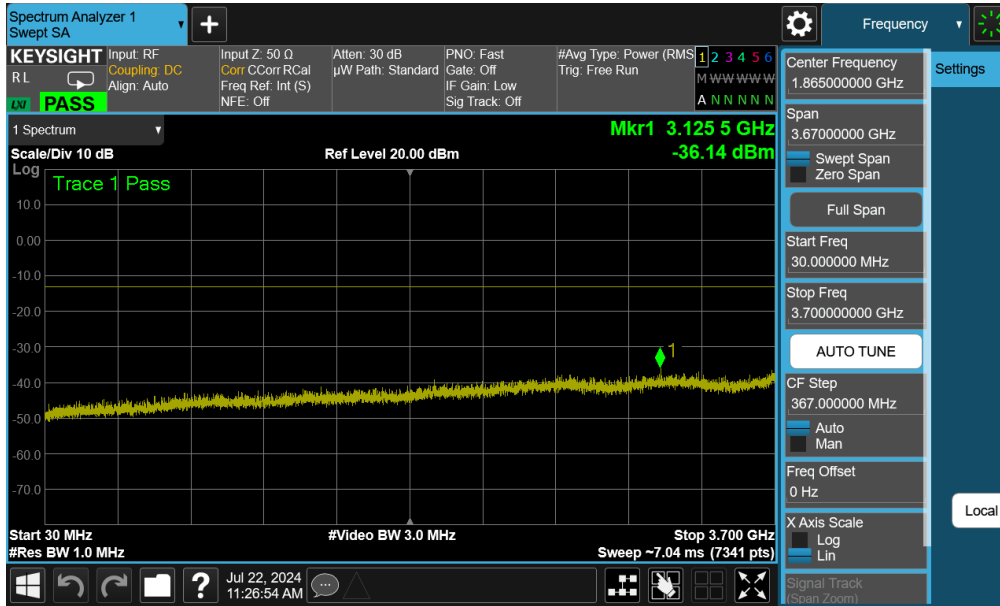
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 72 of 123



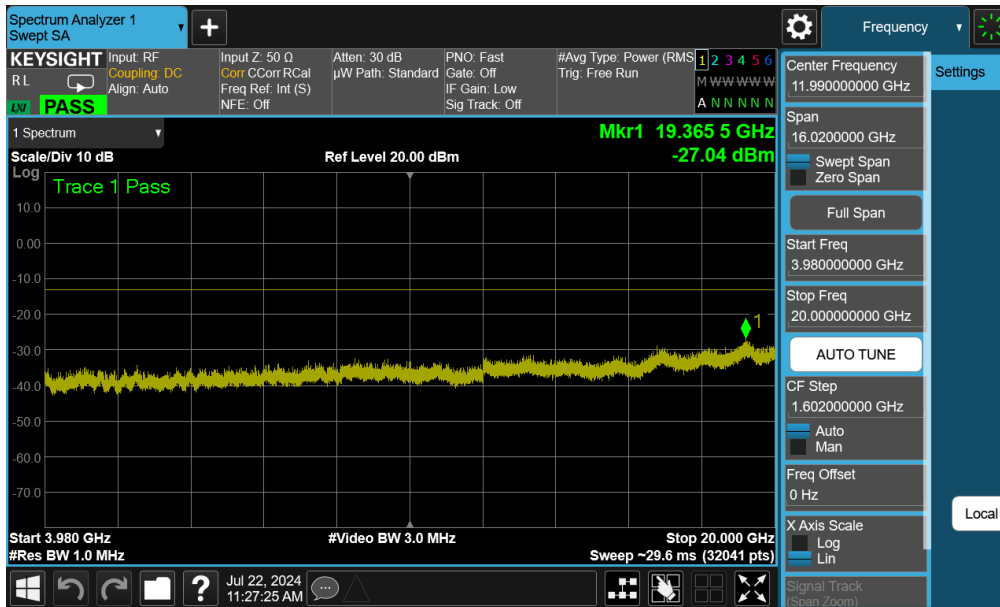
Plot 7-100. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant S3)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 73 of 123

NR Band n77 C Band – Ant S3

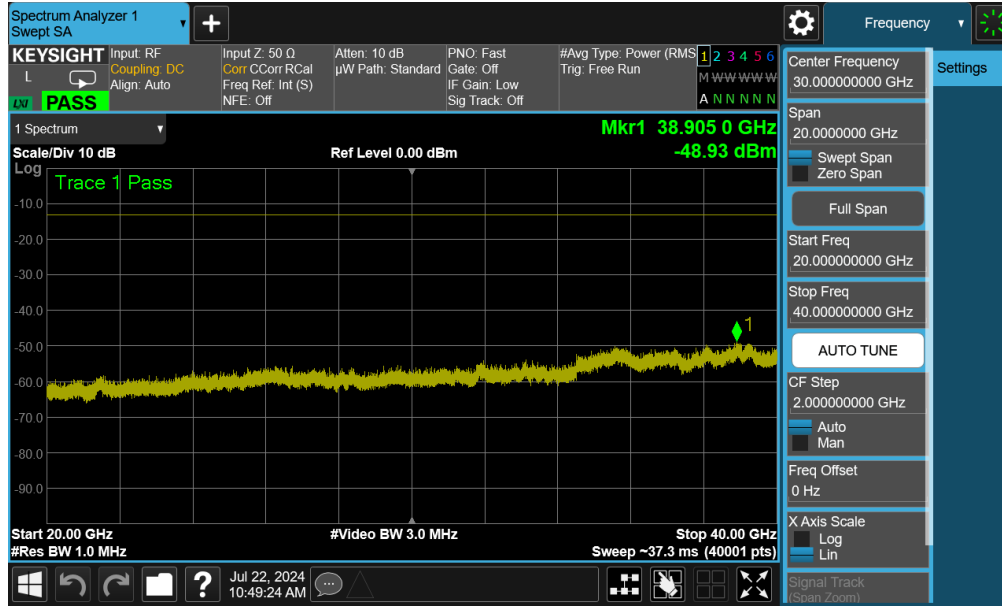


Plot 7-101. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel – Ant S3)



Plot 7-102. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel – Ant S3)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 74 of 123



Plot 7-103. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel – Ant S3)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 75 of 123

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.

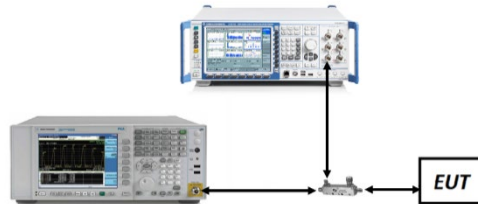


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 76 of 123

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.

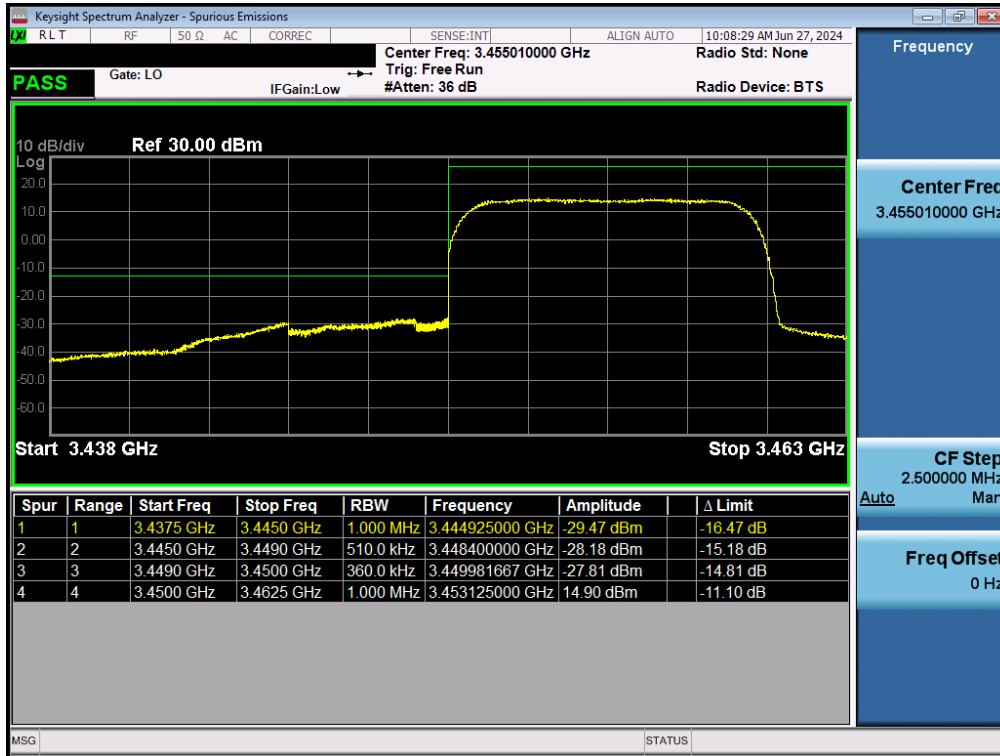
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 77 of 123

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-33.77	-13	-20.77
		High	Band Edge	-37.74	-13	-24.74
	90MHz	Low	Band Edge	-33.96	-13	-20.96
		High	Band Edge	-38.47	-13	-25.47
	80MHz	Low	Band Edge	-32.61	-13	-19.61
		High	Band Edge	-38.49	-13	-25.49
	70MHz	Low	Band Edge	-33.80	-13	-20.80
		High	Band Edge	-37.88	-13	-24.88
	60MHz	Low	Band Edge	-34.71	-13	-21.71
		High	Band Edge	-37.35	-13	-24.35
	50MHz	Low	Band Edge	-33.48	-13	-20.48
		High	Band Edge	-37.36	-13	-24.36
	40MHz	Low	Band Edge	-34.69	-13	-21.69
		High	Band Edge	-37.08	-13	-24.08
	30MHz	Low	Band Edge	-32.99	-13	-19.99
		High	Band Edge	-35.90	-13	-22.90
	25MHz	Low	Band Edge	-32.57	-13	-19.57
		High	Band Edge	-35.10	-13	-22.10
	20MHz	Low	Band Edge	-30.52	-13	-17.52
		High	Band Edge	-34.77	-13	-21.77
15MHz	Low	Band Edge	-29.23	-13	-16.23	
	High	Band Edge	-34.91	-13	-21.91	
10MHz	Low	Band Edge	-27.81	-13	-14.81	
	High	Band Edge	-33.88	-13	-20.88	

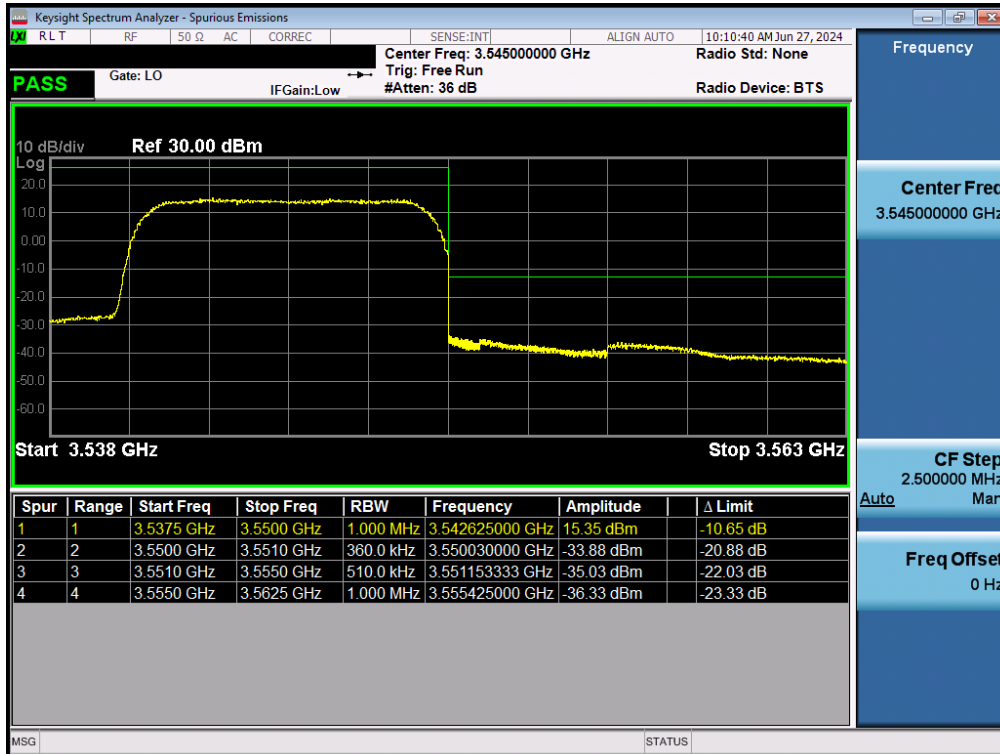
Table 7-9. Conducted Band Edge Test Results – DoD Band – Ant2 M2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 78 of 123

NR Band n77 DoD Band – Ant M2



Plot 7-104. Lower ACP Plot (NR Band n77 - 10MHz DFT-s-OFDM-BPSK – Full RB - Ant M2)



Plot 7-105. Upper ACP Plot (NR Band n77 - 10MHz DFT-s-OFDM-BPSK – Full RB - Ant M2)

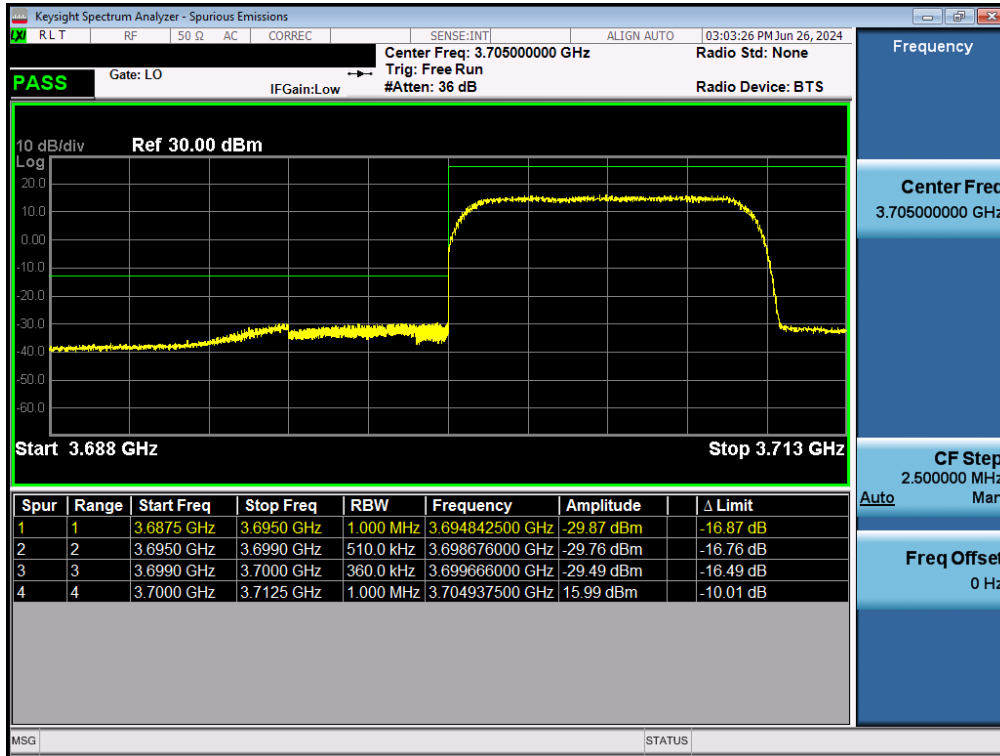
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 79 of 123

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-32.82	-13	-19.82
		High	Band Edge	-36.15	-13	-23.15
	90MHz	Low	Band Edge	-33.99	-13	-20.99
		High	Band Edge	-36.44	-13	-23.44
	80MHz	Low	Band Edge	-34.23	-13	-21.23
		High	Band Edge	-36.09	-13	-23.09
	70MHz	Low	Band Edge	-34.80	-13	-21.80
		High	Band Edge	-36.15	-13	-23.15
	60MHz	Low	Band Edge	-35.33	-13	-22.33
		High	Band Edge	-35.60	-13	-22.60
	50MHz	Low	Band Edge	-34.43	-13	-21.43
		High	Band Edge	-34.24	-13	-21.24
	40MHz	Low	Band Edge	-34.55	-13	-21.55
		High	Band Edge	-33.82	-13	-20.82
	30MHz	Low	Band Edge	-32.78	-13	-19.78
		High	Band Edge	-32.14	-13	-19.14
	25MHz	Low	Band Edge	-32.67	-13	-19.67
		High	Band Edge	-31.90	-13	-18.90
	20MHz	Low	Band Edge	-31.38	-13	-18.38
		High	Band Edge	-31.07	-13	-18.07
15MHz	Low	Band Edge	-30.10	-13	-17.10	
	High	Band Edge	-30.41	-13	-17.41	
10MHz	Low	Band Edge	-29.49	-13	-16.49	
	High	Band Edge	-30.50	-13	-17.50	

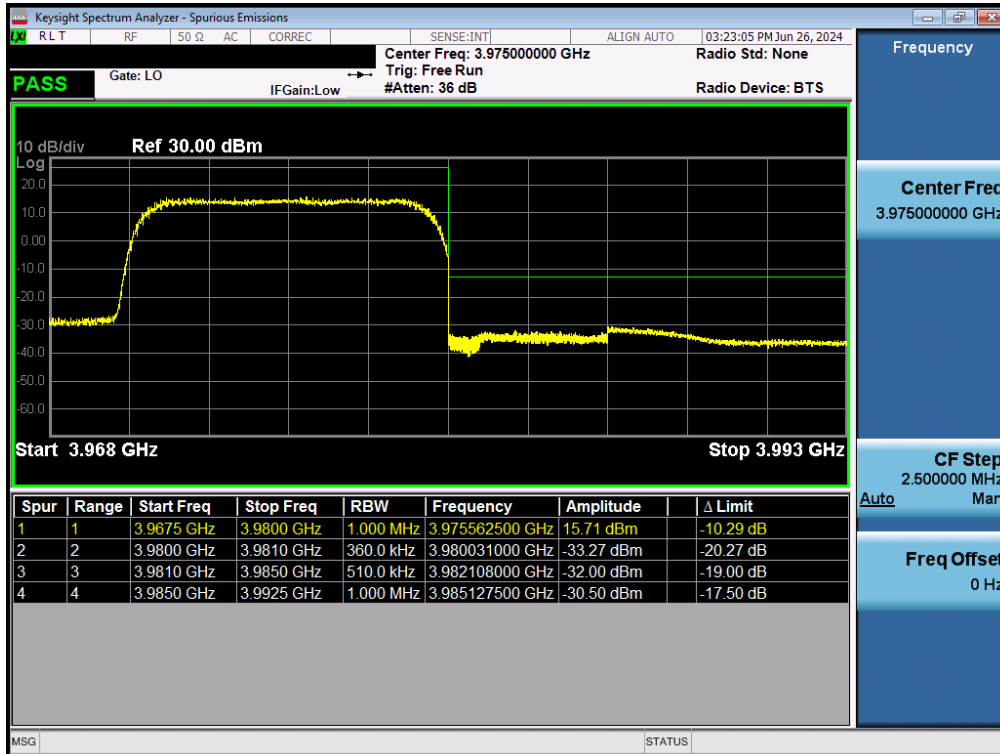
Table 7-10. Conducted Band Edge Test Results – C Band – Ant2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 80 of 123

NR Band n77 C Band – Ant M2



Plot 7-106. Lower ACP Plot (NR Band n77 - 10MHz DFT-s-OFDM-BPSK – Full RB - Ant M2)



Plot 7-107. Upper ACP Plot (NR Band n77 - 10MHz DFT-s-OFDM-BPSK – Full RB - Ant M2)

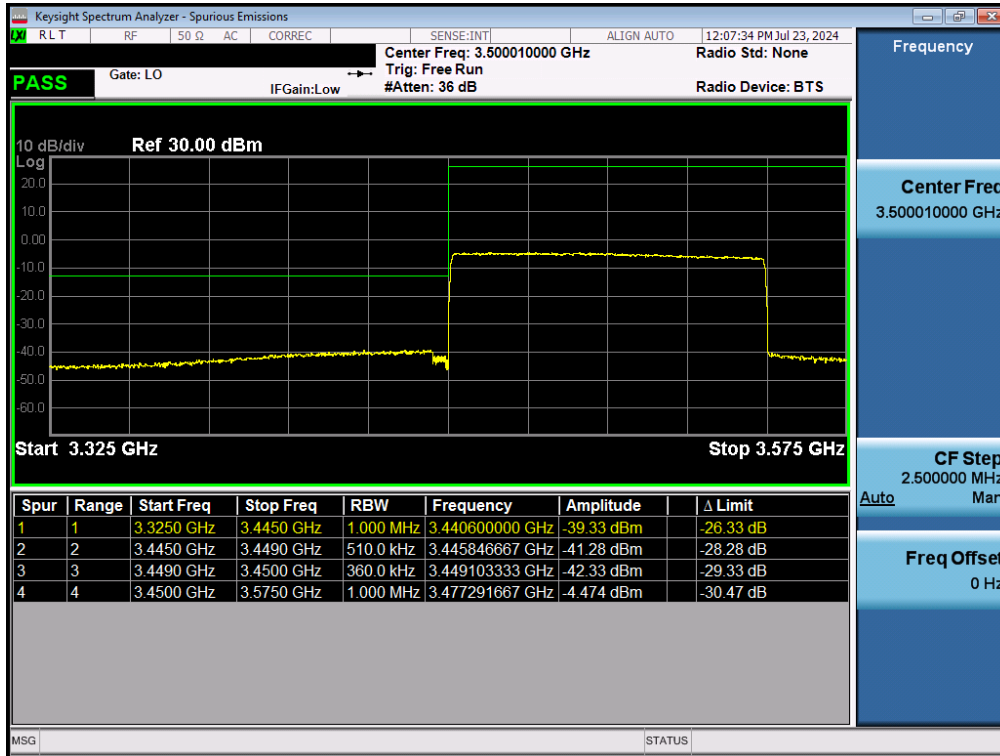
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 81 of 123

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-39.33	-13	-26.33
		High	Band Edge	-40.59	-13	-27.59

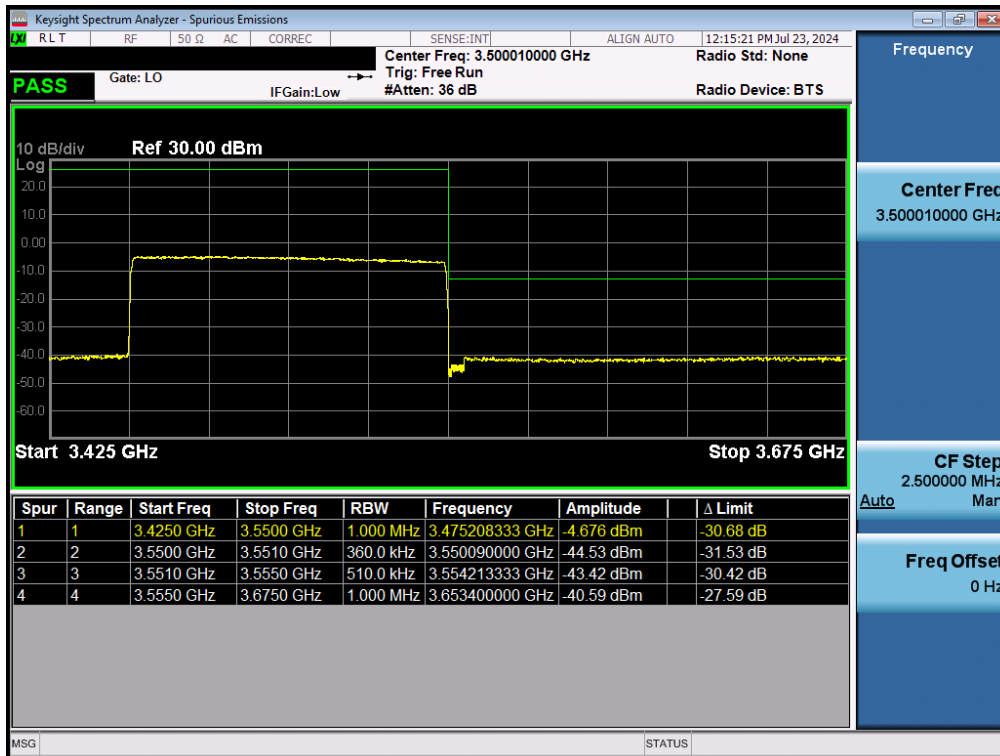
Table 7-11. Conducted Band Edge Test Results – DoD Band – Ant S2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 82 of 123

NR Band n77 DoD Band – Ant S2



Plot 7-108. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S2)



Plot 7-109. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S2)

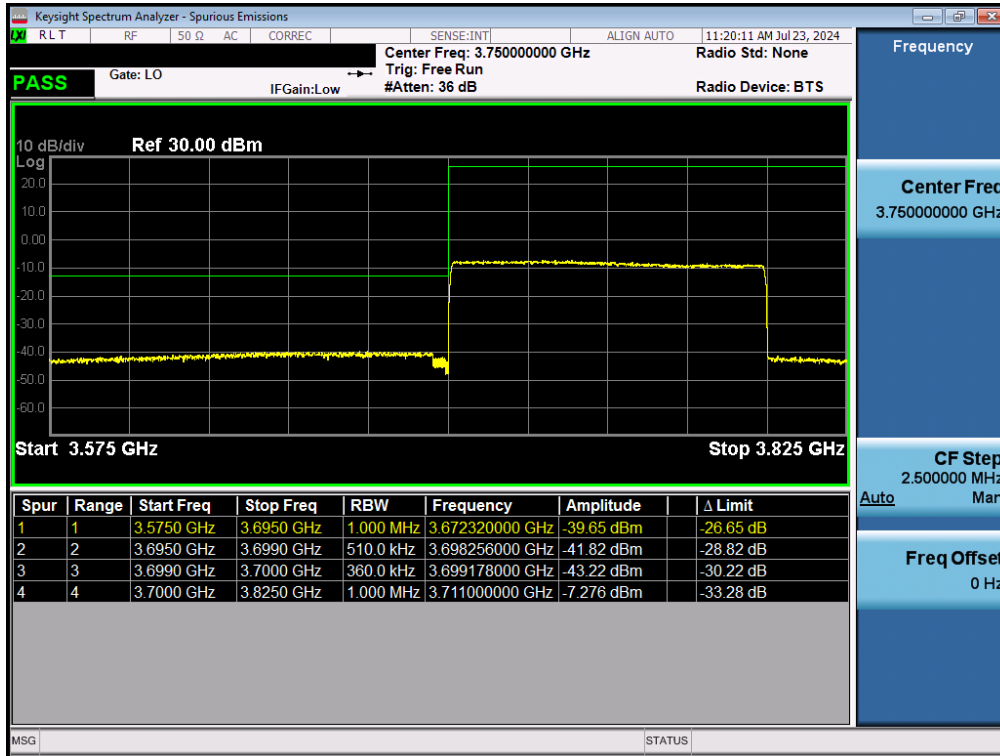
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 83 of 123

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-39.65	-13	-26.65
		High	Band Edge	-29.82	-13	-16.82

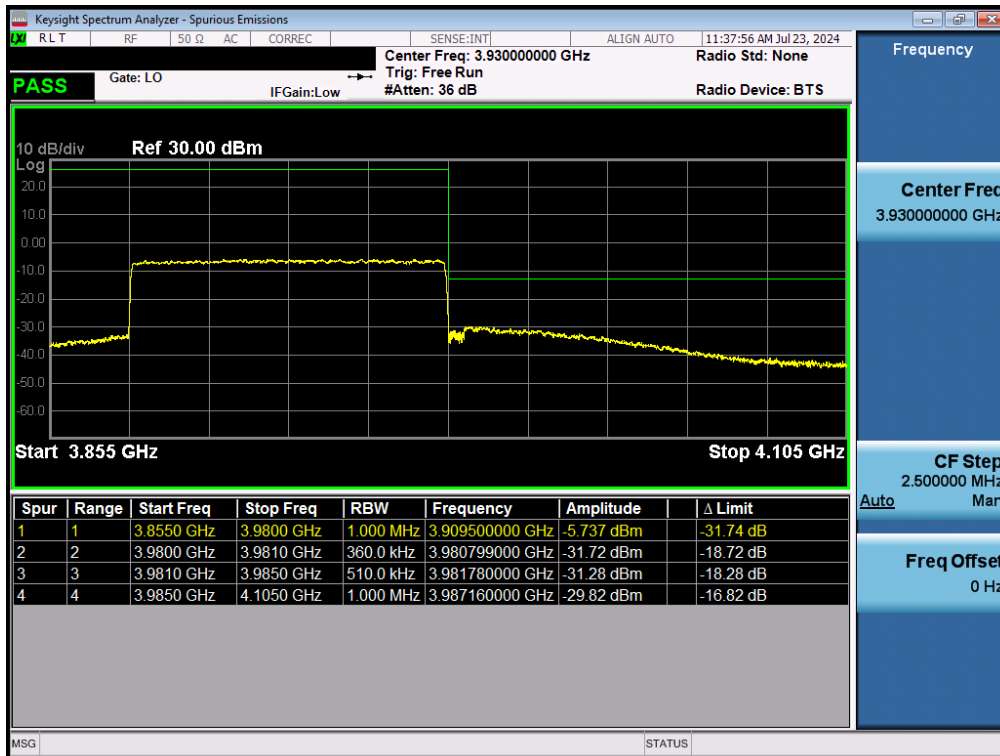
Table 7-12. Conducted Band Edge Test Results – C Band – Ant S2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 84 of 123

NR Band n77 C Band – Ant S2



Plot 7-110. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK – Full RB – Ant S2)



Plot 7-111. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S2)

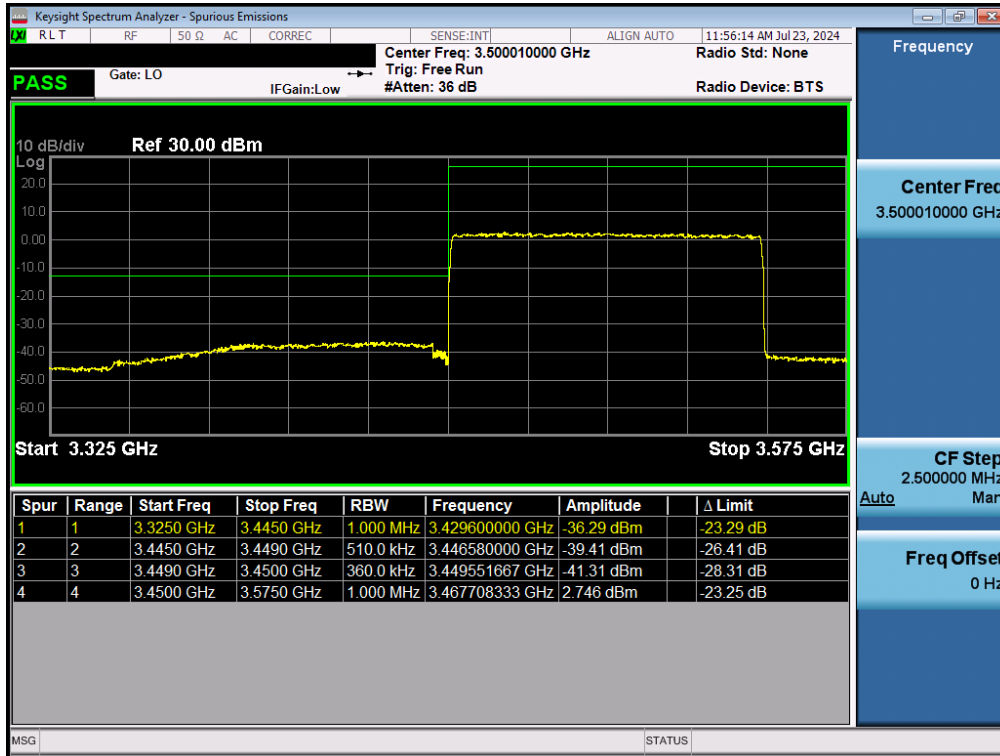
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 85 of 123

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-36.29	-13	-23.29
		High	Band Edge	-39.13	-13	-26.13
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-36.56	-13	-23.56
		High	Band Edge	-36.63	-13	-23.63

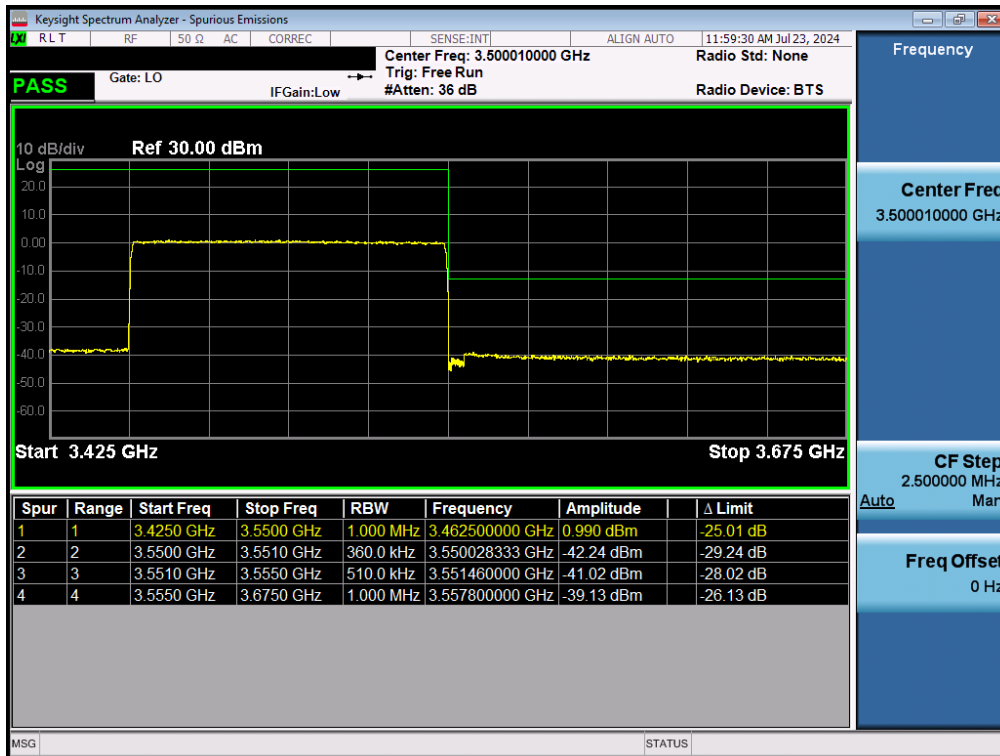
Table 7-13. Conducted Band Edge Test Results – Ant S4

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 86 of 123

NR Band n77 DoD Band – Ant S4



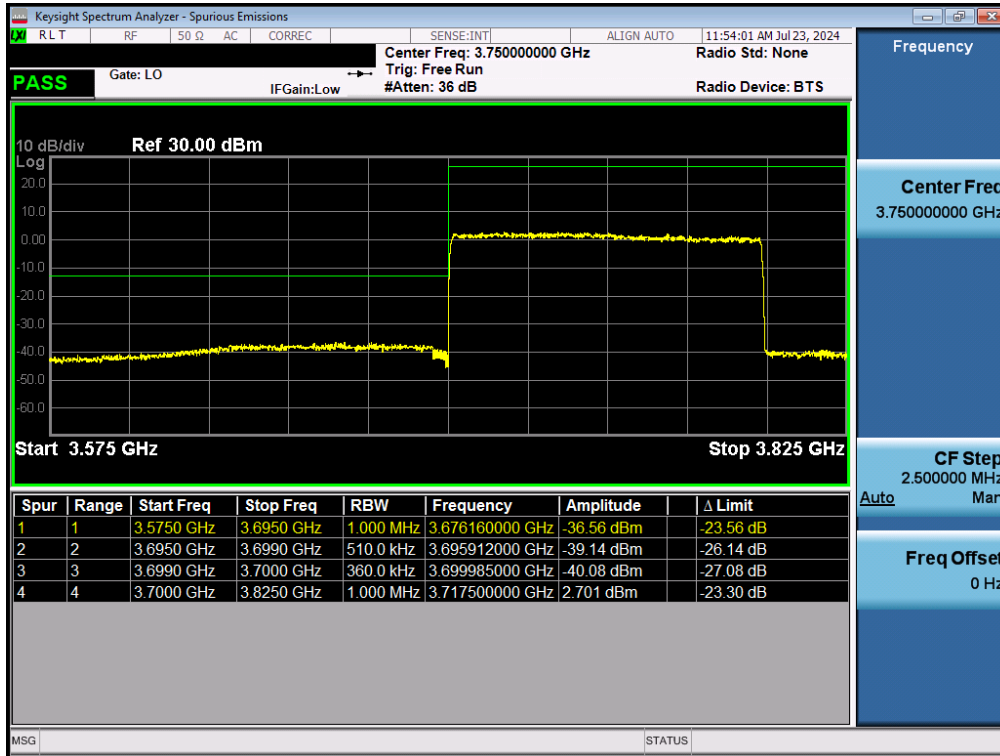
Plot 7-112. Lower ACP Plot (NR Band n77 - 100MHz DFT-s-OFDM-BPSK – Full RB – Ant S4)



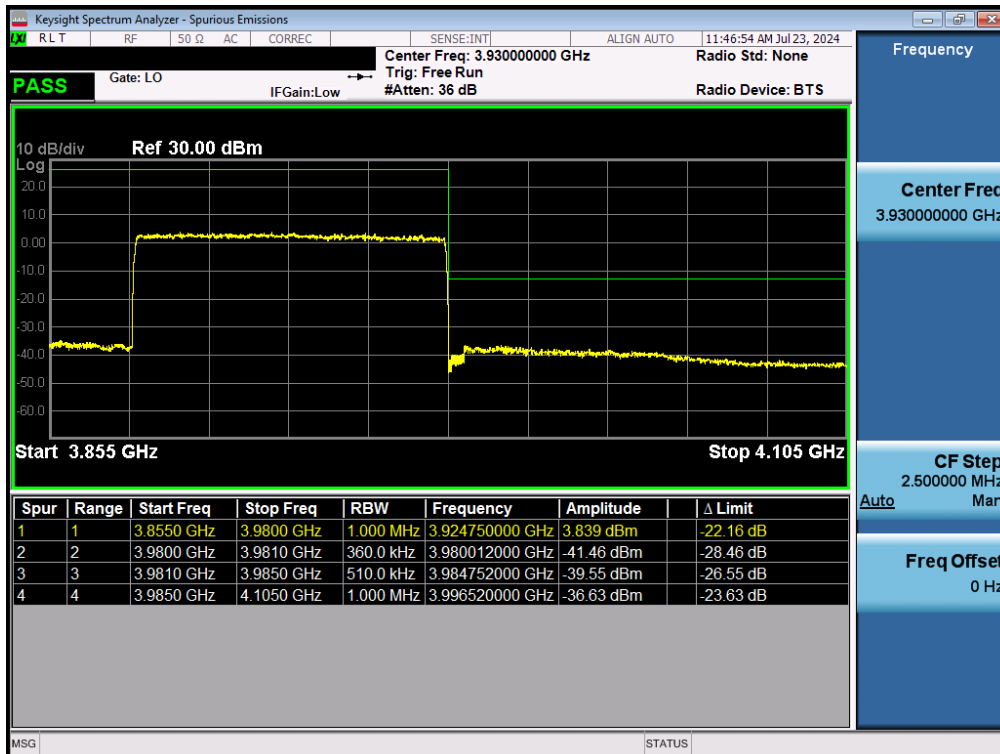
Plot 7-113. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S4)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 87 of 123

NR Band n77 C Band – Ant S4



Plot 7-114. Lower ACP Plot (NR Band n77 - 100MHz DFT-s-OFDM-BPSK – Full RB – Ant S4)



Plot 7-115. Upper ACP Plot (NR Band n77 - 100MHz DFT-s-OFDM-BPSK – Full RB – Ant S4)

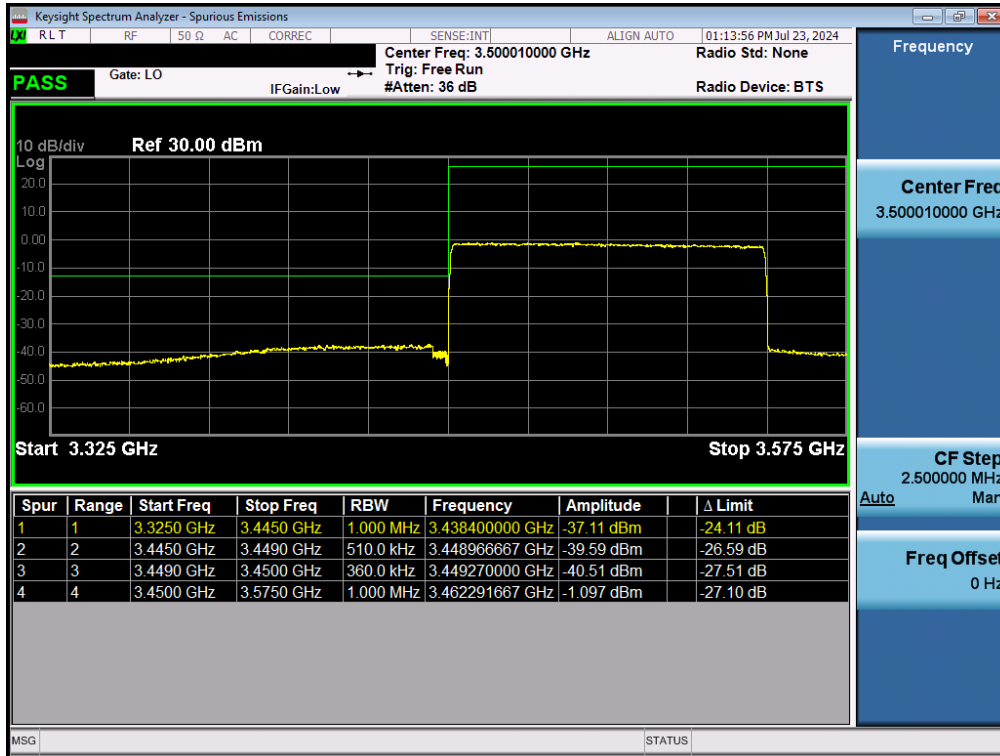
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 88 of 123

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-37.11	-13	-24.11
		High	Band Edge	-38.78	-13	-25.78
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-36.87	-13	-23.87
		High	Band Edge	-34.99	-13	-21.99

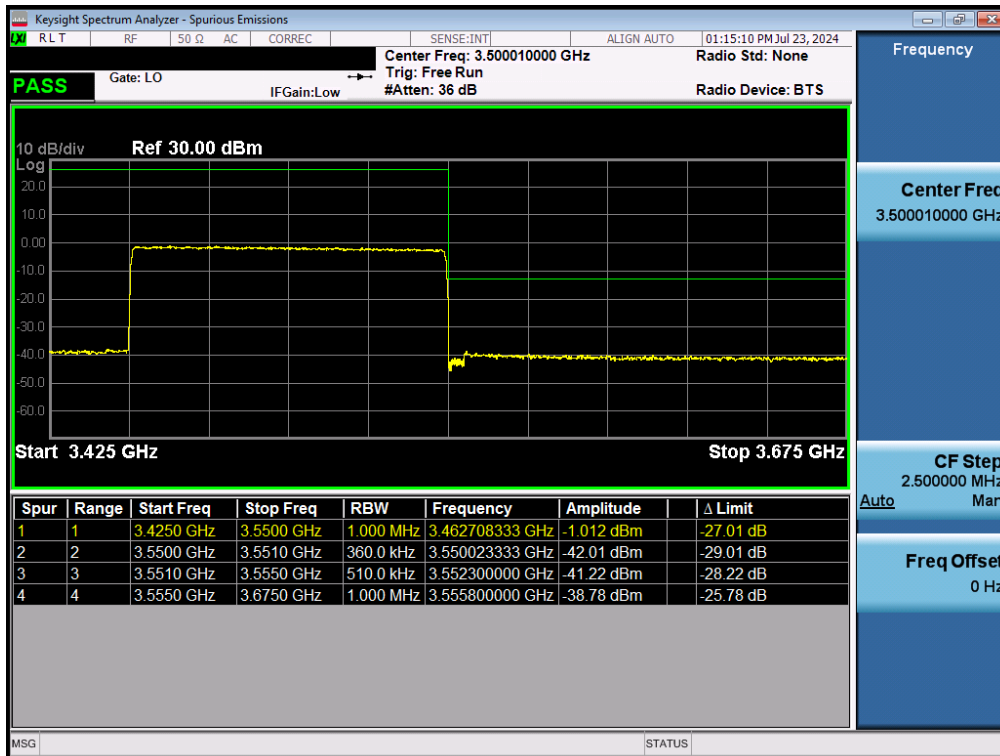
Table 7-14. Conducted Band Edge Test Results – Ant S3

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 89 of 123

NR Band n77 DoD Band – Ant S3



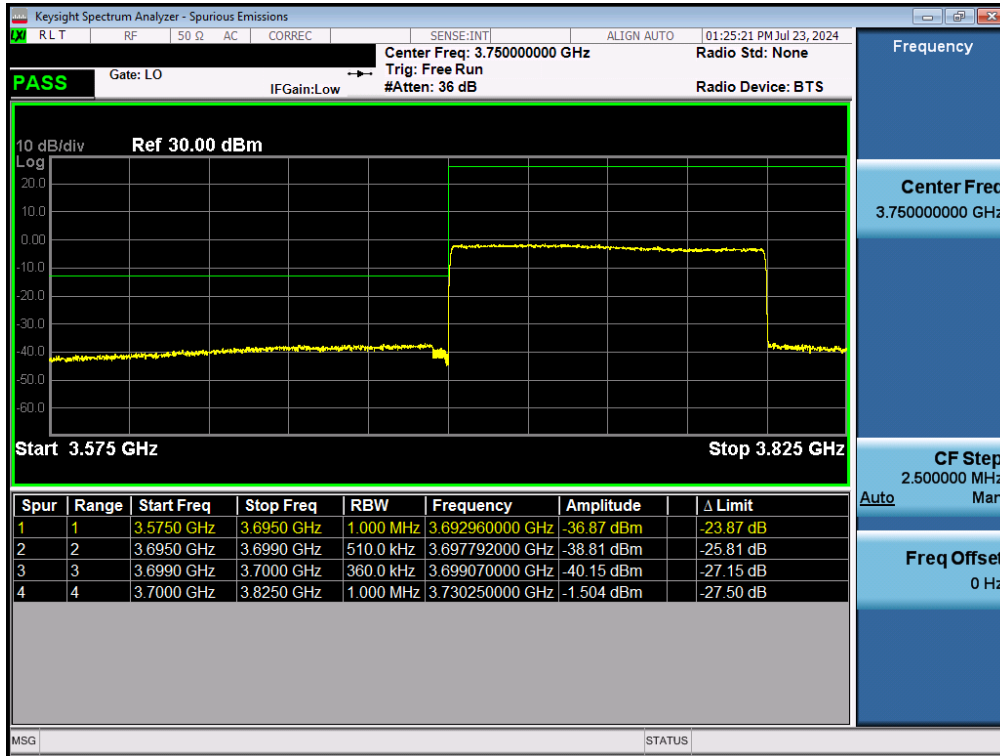
Plot 7-116. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S3)



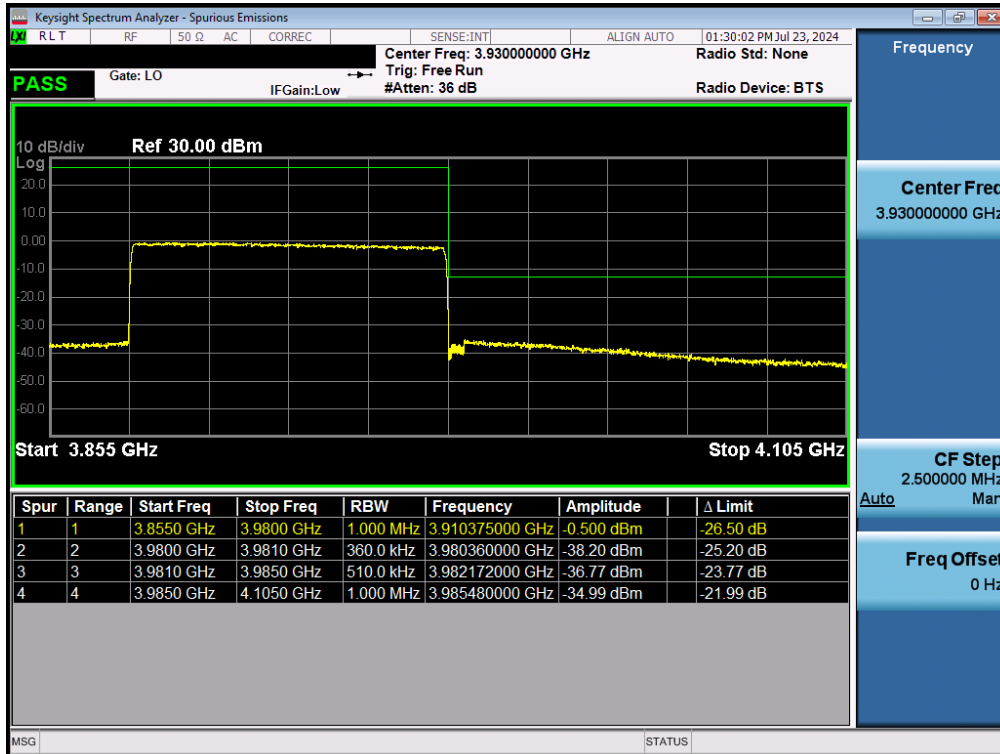
Plot 7-117. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S3)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 C Band – Ant S3



Plot 7-118. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S3)



Plot 7-119. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant S3)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6 Radiated Power (EIRP)

Test Overview

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

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. 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: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 92 of 123

Test Setup

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

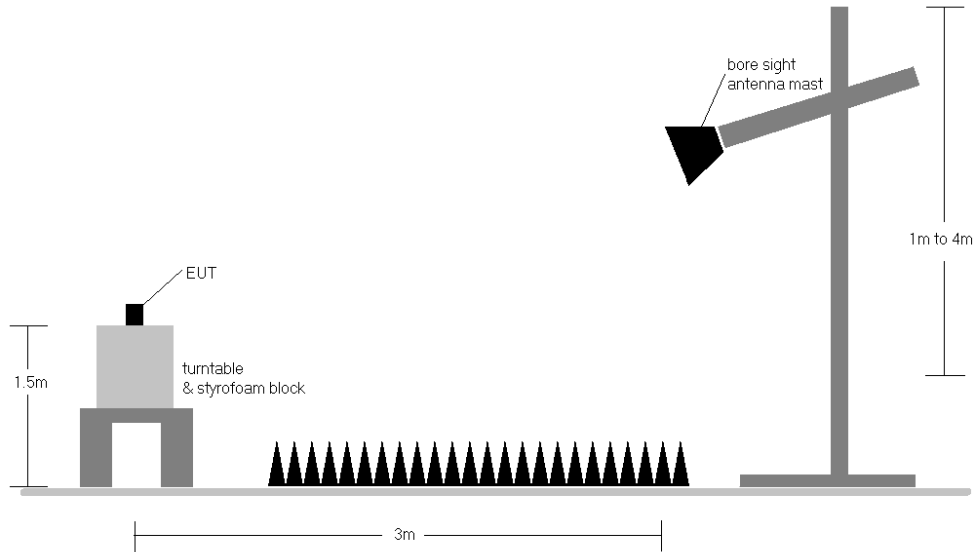


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 93 of 123

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [HV]	Antenna Height [cm]	Tumble Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3750.00	H	100	294	9.64	1 / 1	18.15	27.79	0.601	30.00	-2.21
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 271	18.19	27.80	0.603	30.00	-2.20
	π/2 BPSK	3930.00	H	109	296	9.59	1 / 1	18.30	27.89	0.615	30.00	-2.11
	QPSK	3750.00	H	100	294	9.64	1 / 1	18.14	27.78	0.600	30.00	-2.22
	QPSK	3840.00	H	101	299	9.61	1 / 271	18.17	27.78	0.600	30.00	-2.22
	QPSK	3930.00	H	109	296	9.59	1 / 1	18.20	27.79	0.601	30.00	-2.21
90 MHz	16-QAM	3930.00	H	109	296	9.59	1 / 1	17.30	26.89	0.489	30.00	-3.11
	π/2 BPSK	3745.02	H	100	294	9.64	1 / 122	18.27	27.91	0.618	30.00	-2.09
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 122	17.93	27.54	0.598	30.00	-2.48
	π/2 BPSK	3934.98	H	109	296	9.59	1 / 122	17.90	27.49	0.591	30.00	-2.51
	QPSK	3745.02	H	100	294	9.64	1 / 122	18.35	27.99	0.629	30.00	-2.01
	QPSK	3840.00	H	101	299	9.61	1 / 122	18.12	27.73	0.593	30.00	-2.27
80 MHz	QPSK	3934.98	H	109	296	9.59	1 / 122	18.09	27.68	0.586	30.00	-2.32
	16-QAM	3840.00	H	101	299	9.61	1 / 122	17.96	27.57	0.572	30.00	-2.43
	π/2 BPSK	3740.01	H	100	294	9.64	1 / 108	18.16	27.80	0.602	30.00	-2.20
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 215	18.17	27.78	0.600	30.00	-2.22
	π/2 BPSK	3939.99	H	109	296	9.59	1 / 108	17.98	27.55	0.589	30.00	-2.45
	QPSK	3740.01	H	100	294	9.64	1 / 108	18.50	28.14	0.651	30.00	-1.86
70 MHz	QPSK	3840.00	H	101	299	9.61	1 / 108	18.22	27.83	0.607	30.00	-2.17
	QPSK	3939.99	H	109	296	9.59	1 / 108	17.91	27.50	0.582	30.00	-2.50
	16-QAM	3740.01	H	100	294	9.64	1 / 108	17.29	26.93	0.493	30.00	-3.07
	π/2 BPSK	3735.00	H	100	294	9.64	1 / 94	18.32	27.96	0.625	30.00	-2.04
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 187	18.08	27.69	0.588	30.00	-2.31
	π/2 BPSK	3945.00	H	109	296	9.59	1 / 94	18.07	27.68	0.583	30.00	-2.34
60 MHz	QPSK	3735.00	H	100	294	9.64	1 / 94	18.46	28.10	0.645	30.00	-1.90
	QPSK	3840.00	H	101	299	9.61	1 / 187	18.17	27.78	0.600	30.00	-2.22
	QPSK	3945.00	H	109	296	9.59	1 / 94	17.99	27.58	0.573	30.00	-2.42
	16-QAM	3735.00	H	100	294	9.64	1 / 94	17.30	26.94	0.494	30.00	-3.08
	π/2 BPSK	3730.02	H	100	294	9.64	1 / 81	18.38	28.03	0.635	30.00	-1.97
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 81	18.06	27.67	0.585	30.00	-2.33
50 MHz	π/2 BPSK	3949.98	H	109	296	9.58	1 / 81	17.78	27.36	0.544	30.00	-2.64
	QPSK	3730.02	H	100	294	9.64	1 / 81	18.42	28.07	0.641	30.00	-1.93
	QPSK	3840.00	H	101	299	9.61	1 / 81	18.10	27.71	0.591	30.00	-2.29
	QPSK	3949.98	H	109	296	9.58	1 / 81	18.03	27.61	0.577	30.00	-2.38
	16-QAM	3840.00	H	101	299	9.61	1 / 81	17.23	26.84	0.483	30.00	-3.16
	π/2 BPSK	3725.01	H	100	294	9.66	1 / 66	18.36	28.01	0.632	30.00	-1.99
40 MHz	π/2 BPSK	3840.00	H	101	299	9.61	1 / 66	18.14	27.75	0.596	30.00	-2.25
	π/2 BPSK	3964.99	H	109	296	9.58	1 / 1	17.90	27.48	0.580	30.00	-2.52
	QPSK	3725.01	H	100	294	9.66	1 / 66	18.47	28.12	0.648	30.00	-1.88
	QPSK	3840.00	H	101	299	9.61	1 / 131	18.16	27.77	0.599	30.00	-2.23
	QPSK	3964.99	H	109	296	9.58	1 / 1	17.85	27.43	0.553	30.00	-2.57
	16-QAM	3840.00	H	101	299	9.61	1 / 131	17.39	27.00	0.502	30.00	-3.00
30 MHz	π/2 BPSK	3720.00	H	100	294	9.66	1 / 53	18.27	27.92	0.619	30.00	-2.08
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 104	18.24	27.85	0.610	30.00	-2.15
	π/2 BPSK	3960.00	H	109	296	9.58	1 / 1	17.79	27.37	0.546	30.00	-2.63
	QPSK	3720.00	H	100	294	9.66	1 / 1	18.42	28.07	0.641	30.00	-1.93
	QPSK	3840.00	H	101	299	9.61	1 / 53	18.09	27.70	0.589	30.00	-2.30
	QPSK	3960.00	H	109	296	9.58	1 / 1	17.80	27.38	0.547	30.00	-2.62
25 MHz	16-QAM	3840.00	H	101	299	9.61	1 / 104	17.39	27.00	0.502	30.00	-3.00
	π/2 BPSK	3715.02	H	100	294	9.66	1 / 39	18.34	27.99	0.629	30.00	-2.01
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 78	18.30	27.91	0.618	30.00	-2.09
	π/2 BPSK	3964.98	H	109	296	9.58	1 / 39	17.66	27.13	0.516	30.00	-2.87
	QPSK	3715.02	H	100	294	9.66	1 / 39	18.53	28.18	0.657	30.00	-1.82
	QPSK	3840.00	H	101	299	9.61	1 / 78	18.26	27.87	0.613	30.00	-2.13
20 MHz	QPSK	3964.98	H	109	296	9.58	1 / 1	17.73	27.31	0.538	30.00	-2.66
	16-QAM	3840.00	H	101	299	9.61	1 / 78	17.41	27.02	0.504	30.00	-2.98
	π/2 BPSK	3712.50	H	101	293	9.66	1 / 78	18.48	28.13	0.650	30.00	-1.87
	π/2 BPSK	3840.00	H	101	293	9.61	1 / 78	18.41	28.02	0.634	30.00	-1.98
	π/2 BPSK	3967.50	H	101	293	9.58	1 / 1	17.46	27.04	0.508	30.00	-2.98
	QPSK	3712.50	H	101	293	9.66	1 / 1	18.47	28.12	0.648	30.00	-1.88
15 MHz	QPSK	3840.00	H	101	293	9.61	1 / 78	18.38	27.99	0.630	30.00	-2.01
	QPSK	3967.50	H	101	293	9.58	1 / 1	17.79	27.37	0.546	30.00	-2.63
	16-QAM	3712.50	H	101	293	9.66	1 / 78	17.58	27.23	0.528	30.00	-2.77
	π/2 BPSK	3710.01	H	100	294	9.66	1 / 1	18.37	28.02	0.634	30.00	-1.98
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 1	18.35	27.96	0.626	30.00	-2.04
	π/2 BPSK	3969.99	H	109	296	9.58	1 / 1	17.80	27.38	0.547	30.00	-2.62
10 MHz	QPSK	3710.01	H	100	294	9.66	1 / 1	18.76	28.41	0.693	30.00	-1.59
	QPSK	3840.00	H	101	299	9.61	1 / 1	18.37	27.98	0.629	30.00	-2.02
	QPSK	3969.99	H	109	296	9.58	1 / 1	17.88	27.46	0.557	30.00	-2.54
	16-QAM	3840.00	H	101	299	9.61	1 / 1	17.46	27.07	0.510	30.00	-2.93
	π/2 BPSK	3705.00	H	100	294	9.66	1 / 1	18.62	28.17	0.686	30.00	-1.83
	π/2 BPSK	3840.00	H	101	299	9.61	1 / 22	19.09	28.70	0.742	30.00	-1.30
100 MHz	π/2 BPSK	3975.00	H	109	296	9.58	1 / 12	18.08	27.66	0.583	30.00	-2.34
	QPSK	3705.00	H	100	294	9.66	1 / 12	18.60	28.25	0.688	30.00	-1.75
	QPSK	3840.00	H	101	299	9.61	1 / 12	18.73	28.34	0.693	30.00	-1.66
	QPSK	3975.00	H	109	296	9.58	1 / 1	17.98	27.56	0.570	30.00	-2.44
100 MHz	16-QAM	3840.00	H	101	299	9.61	1 / 22	17.73	27.34	0.542	30.00	-2.66
	QPSK (CP-OFDM)	3930.00	H	109	296	9.59	1 / 1	17.15	26.74	0.472	30.00	-3.28
100 MHz	QPSK (Opposite Pol.)	3930.00	V	296	299	9.59	1 / 1	16.13	25.72	0.373	30.00	-4.28

Table 7-16. EIRP Data (NR Band n77 (PC2) C Band) – Ant M2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-05.A3L	Test Dates: 6/10/2024 - 7/18/2024	EUT Type: Portable Tablet	Page 95 of 123