

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 DoD Band	100MHz	Low	Band Edge	-38.71	-13	-25.71
		High	Band Edge	-38.31	-13	-25.31
	90MHz	Low	Band Edge	-37.06	-13	-24.06
		High	Band Edge	-38.24	-13	-25.24
	80MHz	Low	Band Edge	-36.54	-13	-23.54
		High	Band Edge	-38.08	-13	-25.08
	70MHz	Low	Band Edge	-31.65	-13	-18.65
		High	Band Edge	-33.00	-13	-20.00
	60MHz	Low	Band Edge	-38.53	-13	-25.53
		High	Band Edge	-38.51	-13	-25.51
	50MHz	Low	Band Edge	-36.05	-13	-23.05
		High	Band Edge	-33.18	-13	-20.18
	40MHz	Low	Band Edge	-30.56	-13	-17.56
		High	Band Edge	-32.32	-13	-19.32
	30MHz	Low	Band Edge	-29.34	-13	-16.34
		High	Band Edge	-33.11	-13	-20.11
	20MHz	Low	Band Edge	-25.62	-13	-12.62
		High	Band Edge	-32.25	-13	-19.25
	15MHz	Low	Band Edge	-23.54	-13	-10.54
		High	Band Edge	-31.57	-13	-18.57
	10MHz	Low	Band Edge	-22.26	-13	-9.26
		High	Band Edge	-31.25	-13	-18.25

Table 7-14. Conducted Band Edge Results - Ant1 - DoD Band

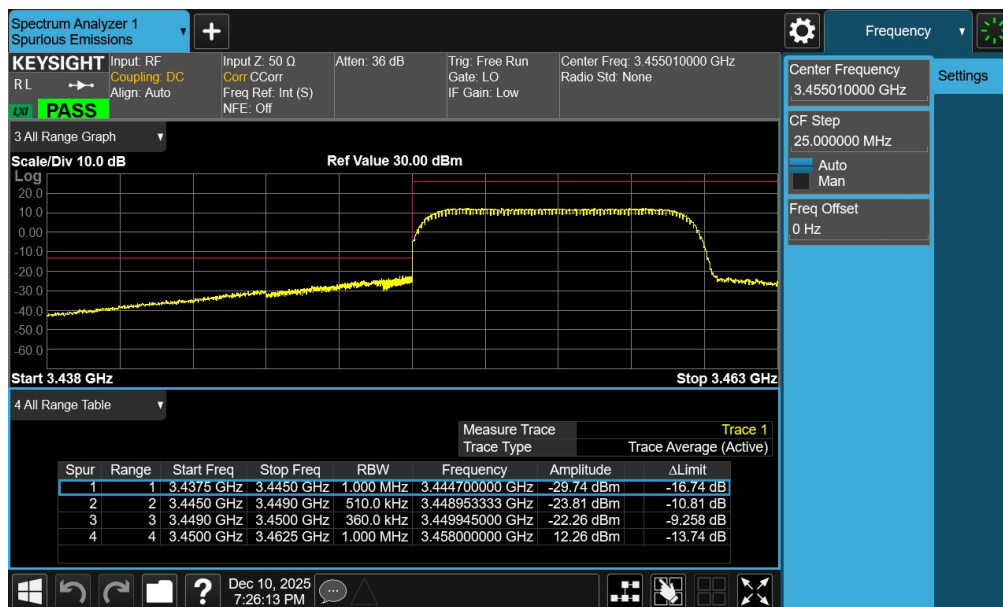
FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 68 of 102

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC2 C Band	100MHz	Low	Band Edge	-35.14	-13	-22.14
		High	Band Edge	-38.80	-13	-25.80
	90MHz	Low	Band Edge	-35.57	-13	-22.57
		High	Band Edge	-39.54	-13	-26.54
	80MHz	Low	Band Edge	-35.22	-13	-22.22
		High	Band Edge	-38.75	-13	-25.75
	70MHz	Low	Band Edge	-30.07	-13	-17.07
		High	Band Edge	-33.86	-13	-20.86
	60MHz	Low	Band Edge	-34.64	-13	-21.64
		High	Band Edge	-39.04	-13	-26.04
	50MHz	Low	Band Edge	-34.66	-13	-21.66
		High	Band Edge	-37.86	-13	-24.86
	40MHz	Low	Band Edge	-30.59	-13	-17.59
		High	Band Edge	-35.80	-13	-22.80
	30MHz	Low	Band Edge	-30.65	-13	-17.65
		High	Band Edge	-35.97	-13	-22.97
	20MHz	Low	Band Edge	-28.89	-13	-15.89
		High	Band Edge	-32.32	-13	-19.32
	15MHz	Low	Band Edge	-27.16	-13	-14.16
		High	Band Edge	-32.40	-13	-19.40
	10MHz	Low	Band Edge	-25.78	-13	-12.78
		High	Band Edge	-31.26	-13	-18.26

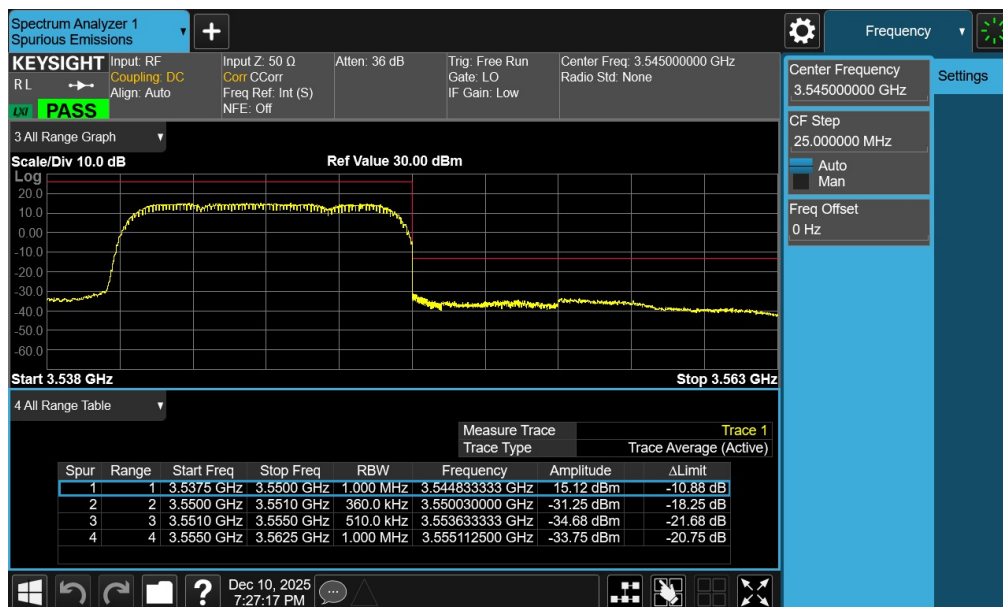
Table 7-15. Conducted Band Edge Results - Ant1 – C-Band

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 69 of 102

NR Band n77 – Ant1 – DoD Band



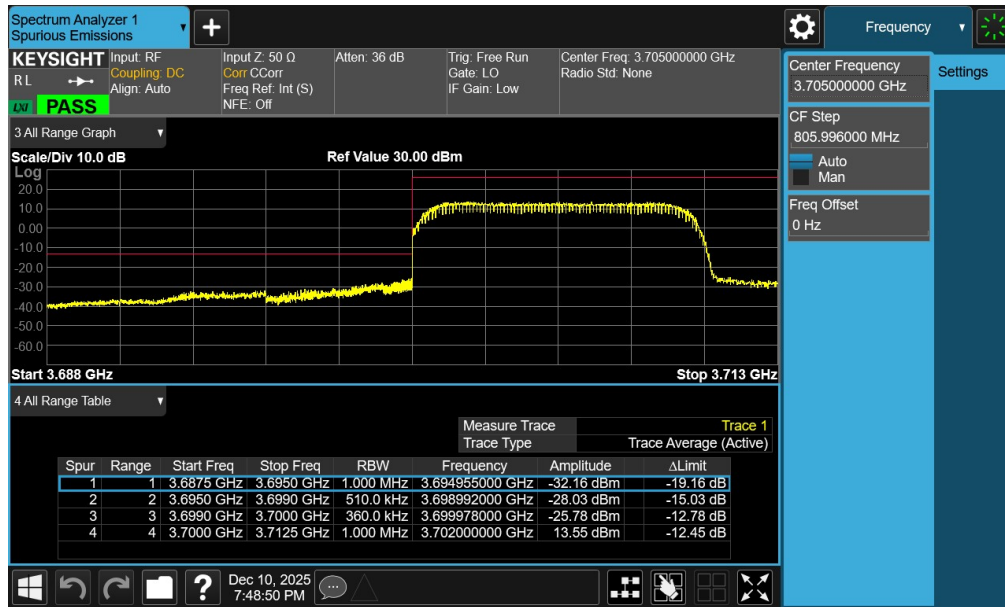
Plot 7-79. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band)



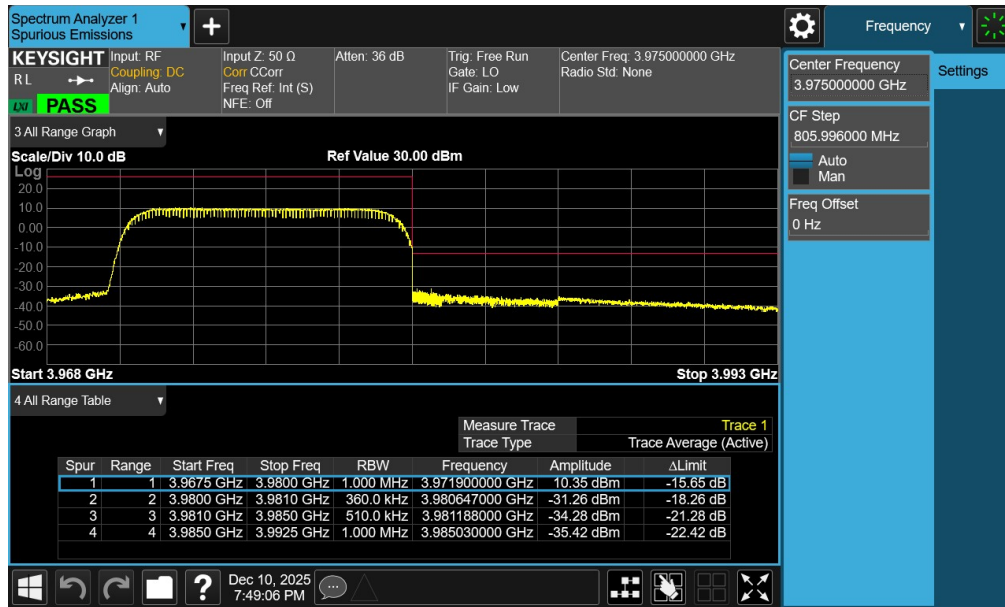
Plot 7-80. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 70 of 102

NR Band n77 – Ant1 – C Band



Plot 7-81. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – C Band)



Plot 7-82. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – C Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 71 of 102

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.

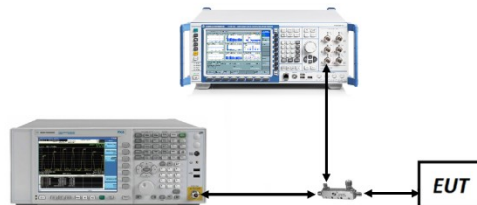


Figure 7-6. Test Instrument & Measurement Setup

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: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 72 of 102

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 DoD Band	100MHz	$\pi/2$ BPSK	26.14	5.06	13	-7.94
		QPSK	23.62	7.91	13	-5.09
		256QAM	20.10	8.37	13	-4.63
	90MHz	$\pi/2$ BPSK	26.10	4.39	13	-8.61
		QPSK	23.61	7.93	13	-5.07
		256QAM	20.05	8.32	13	-4.68
	80MHz	$\pi/2$ BPSK	26.09	5.02	13	-7.98
		QPSK	23.56	7.95	13	-5.05
		256QAM	20.03	8.46	13	-4.54
	70MHz	$\pi/2$ BPSK	26.06	4.56	13	-8.44
		QPSK	23.56	7.92	13	-5.08
		256QAM	20.03	8.40	13	-4.60
	60MHz	$\pi/2$ BPSK	26.04	4.48	13	-8.52
		QPSK	23.54	7.95	13	-5.05
		256QAM	20.01	8.31	13	-4.69
	50MHz	$\pi/2$ BPSK	26.03	4.76	13	-8.24
		QPSK	23.53	7.89	13	-5.11
		256QAM	19.98	8.42	13	-4.58
	40MHz	$\pi/2$ BPSK	25.99	4.50	13	-8.50
		QPSK	23.48	7.61	13	-5.39
		256QAM	19.98	8.36	13	-4.64
	30MHz	$\pi/2$ BPSK	25.98	4.27	13	-8.73
		QPSK	23.48	7.49	13	-5.51
		256QAM	19.96	8.33	13	-4.67
	20MHz	$\pi/2$ BPSK	25.64	4.52	13	-8.48
		QPSK	23.34	7.54	13	-5.46
		256QAM	19.79	8.45	13	-4.55
	15MHz	$\pi/2$ BPSK	25.59	4.45	13	-8.55
		QPSK	23.09	7.77	13	-5.23
		256QAM	19.72	8.44	13	-4.56
	10MHz	$\pi/2$ BPSK	25.80	4.35	13	-8.65
		QPSK	23.05	7.74	13	-5.26
		256QAM	19.77	8.09	13	-4.91

Table 7-16. PAR Results - Ant1 - DoD Band

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 73 of 102

NR Band n77 – Ant1 – DoD Band



Plot 7-83. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD Band)



Plot 7-84. PAR Plot (NR Band n77 - 90MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 74 of 102



Plot 7-85. PAR Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)



Plot 7-86. PAR Plot (NR Band n77 - 70MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 75 of 102



Plot 7-87. PAR Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)



Plot 7-88. PAR Plot (NR Band n77 - 50MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 76 of 102



Plot 7-89. PAR Plot (NR Band n77 - 40MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)



Plot 7-90. PAR Plot (NR Band n77 - 30MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 77 of 102



Plot 7-91. PAR Plot (NR Band n77 - 20MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)



Plot 7-92. PAR Plot (NR Band n77 - 15MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 78 of 102



Plot 7-93. PAR Plot (NR Band n77 - 10MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 79 of 102

Mode	Bandwidth	Modulation	Average Power	PAR at 0.1%	PAR Limit [dB]	Margin [dB]
NR-n77PC2 C-Band	100MHz	$\pi/2$ BPSK	25.18	4.91	13	-8.09
		QPSK	22.67	7.68	13	-5.32
		256QAM	19.16	8.29	13	-4.71
	90MHz	$\pi/2$ BPSK	25.15	4.25	13	-8.75
		QPSK	22.67	7.70	13	-5.30
		256QAM	19.15	8.21	13	-4.79
	80MHz	$\pi/2$ BPSK	25.15	4.87	13	-8.13
		QPSK	22.67	7.69	13	-5.31
		256QAM	19.10	8.34	13	-4.66
	70MHz	$\pi/2$ BPSK	25.17	4.43	13	-8.57
		QPSK	22.67	7.74	13	-5.26
		256QAM	19.14	8.29	13	-4.71
	60MHz	$\pi/2$ BPSK	25.15	4.30	13	-8.70
		QPSK	22.63	7.74	13	-5.26
		256QAM	19.15	8.23	13	-4.77
	50MHz	$\pi/2$ BPSK	25.17	4.68	13	-8.32
		QPSK	22.65	7.70	13	-5.30
		256QAM	19.14	8.33	13	-4.67
	40MHz	$\pi/2$ BPSK	25.13	4.30	13	-8.70
		QPSK	22.61	7.31	13	-5.69
		256QAM	19.12	8.33	13	-4.67
	30MHz	$\pi/2$ BPSK	25.11	4.31	13	-8.69
		QPSK	22.61	7.32	13	-5.68
		256QAM	19.10	8.25	13	-4.75
	20MHz	$\pi/2$ BPSK	24.82	4.26	13	-8.74
		QPSK	22.42	7.34	13	-5.66
		256QAM	18.92	8.46	13	-4.54
	15MHz	$\pi/2$ BPSK	24.32	4.77	13	-8.23
		QPSK	22.20	7.53	13	-5.47
		256QAM	18.93	8.30	13	-4.70
	10MHz	$\pi/2$ BPSK	24.89	4.31	13	-8.69
		QPSK	22.34	7.42	13	-5.58
		256QAM	18.91	8.35	13	-4.65

Table 7-17. PAR Results - Ant1 – C-Band

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 80 of 102

NR Band n77 – Ant1 – C-Band



Plot 7-94. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)



Plot 7-95. PAR Plot (NR Band n77 - 90MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 81 of 102



Plot 7-96. PAR Plot (NR Band n77 - 80MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)



Plot 7-97. PAR Plot (NR Band n77 - 70MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 82 of 102

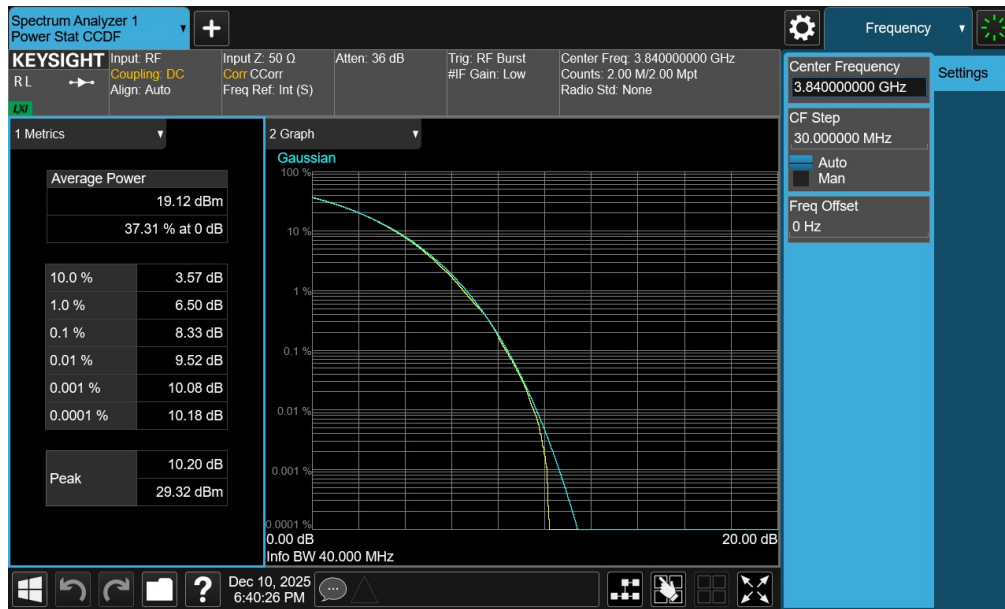


Plot 7-98. PAR Plot (NR Band n77 - 60MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)



Plot 7-99. PAR Plot (NR Band n77 - 50MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 83 of 102



Plot 7-100. PAR Plot (NR Band n77 - 40MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band)



Plot 7-101. PAR Plot (NR Band n77 - 30MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 84 of 102



Plot 7-102. PAR Plot (NR Band n77 - 20MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band)



Plot 7-103. PAR Plot (NR Band n77 - 15MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 85 of 102



Plot 7-104. PAR Plot (NR Band n77 - 10MHz CP-OFDM 256-QAM - Full RB - Ant1 – C-Band)

FCC ID: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 86 of 102

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: A3LSMS942B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270084-10.A3L	Test Dates: 12/10/2025 - 12/24/2025	EUT Type: Portable Handset	Page 87 of 102