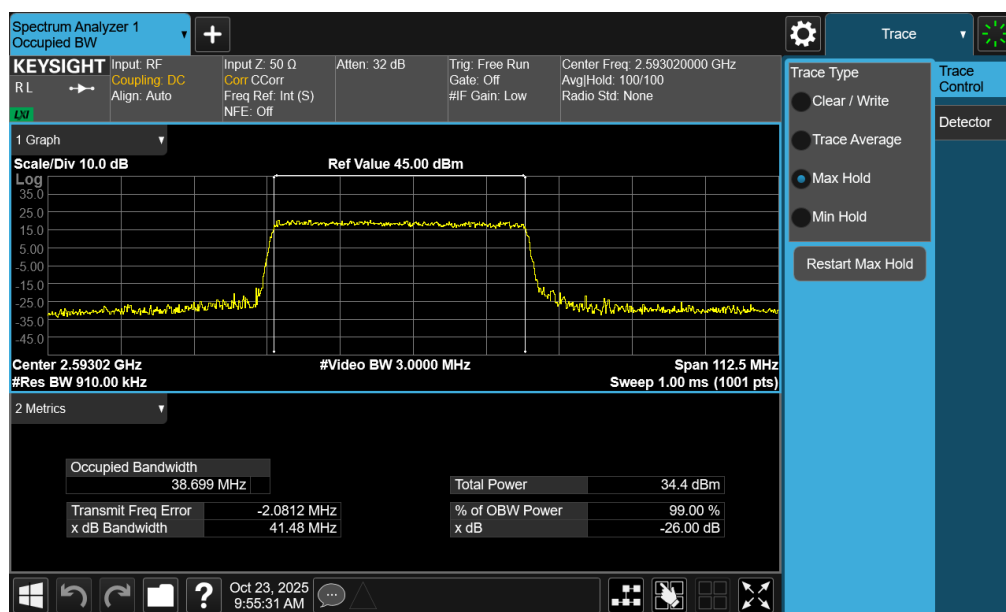
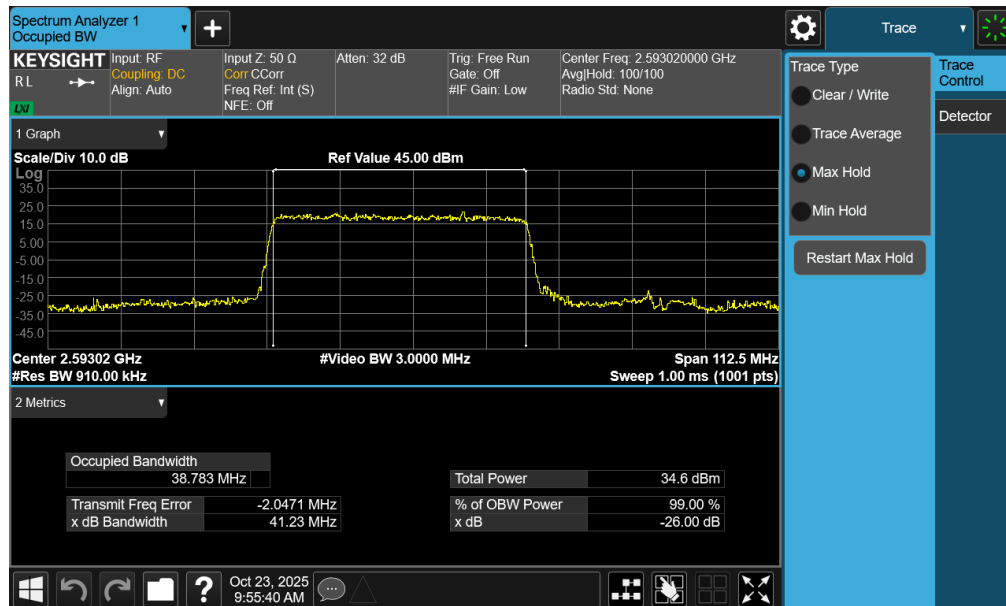
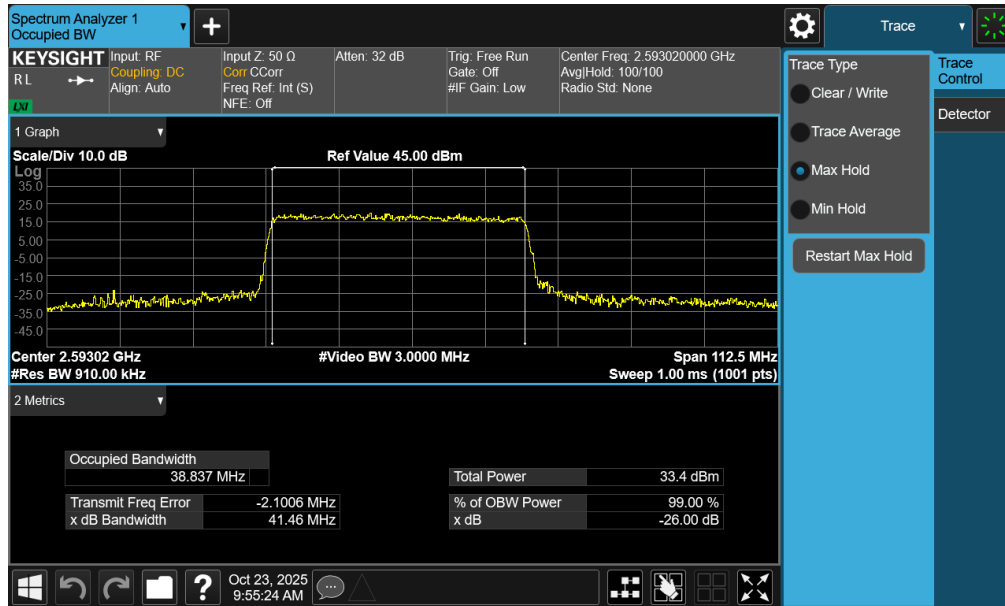
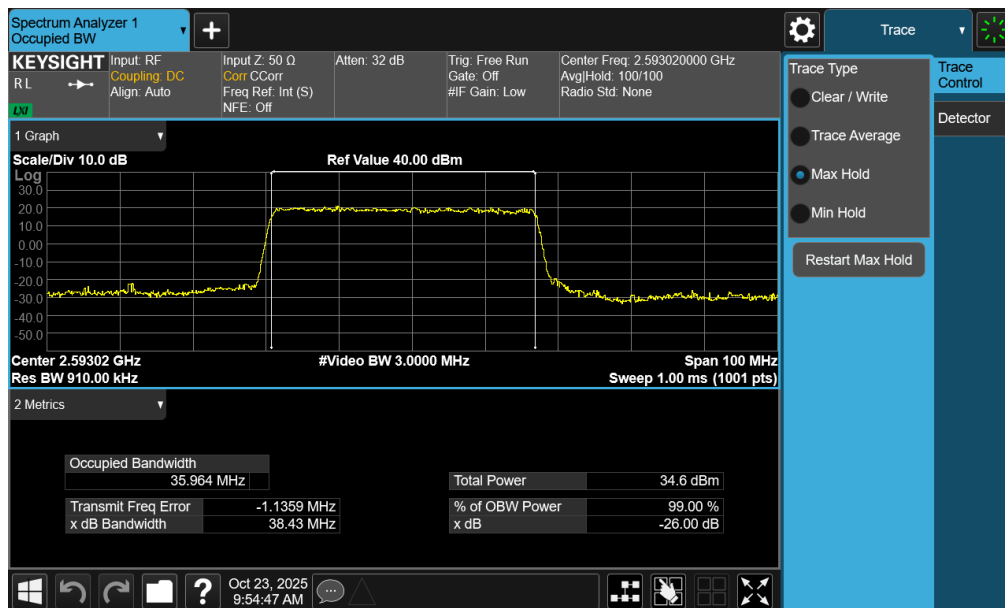




FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 60 of 120

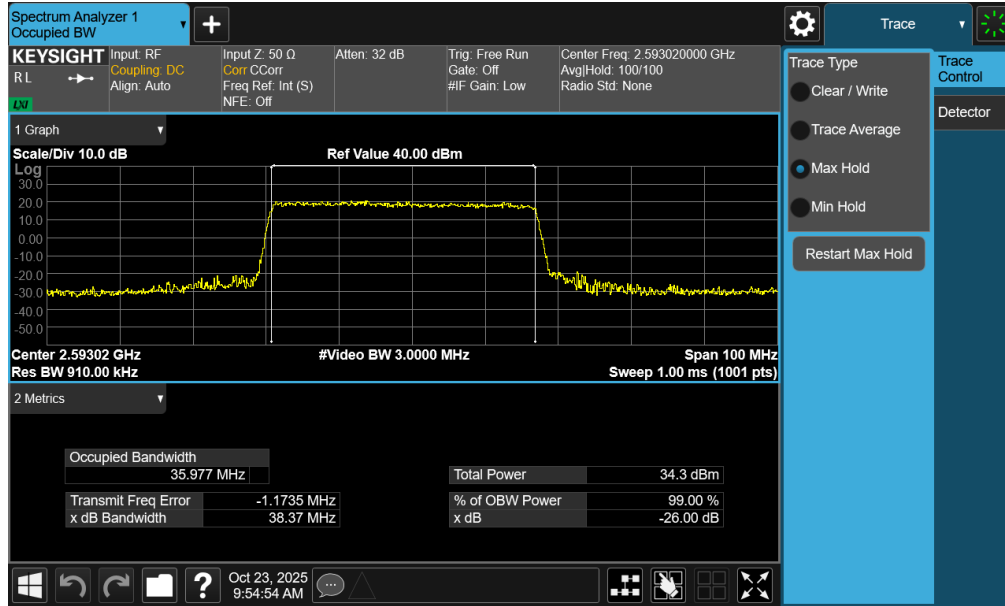


Plot 7-71. Occupied Bandwidth Plot (NR Band n41 PC2 – 45MHz 16-QAM – Full RB – Switch – Ant1)

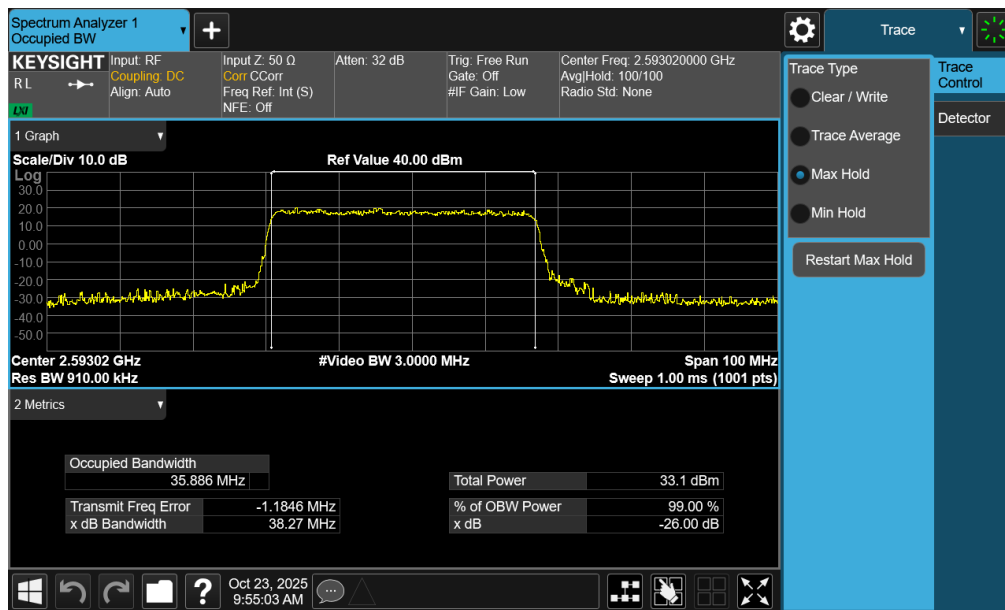


Plot 7-72. Occupied Bandwidth Plot (NR Band n41 PC2 – 40MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 61 of 120

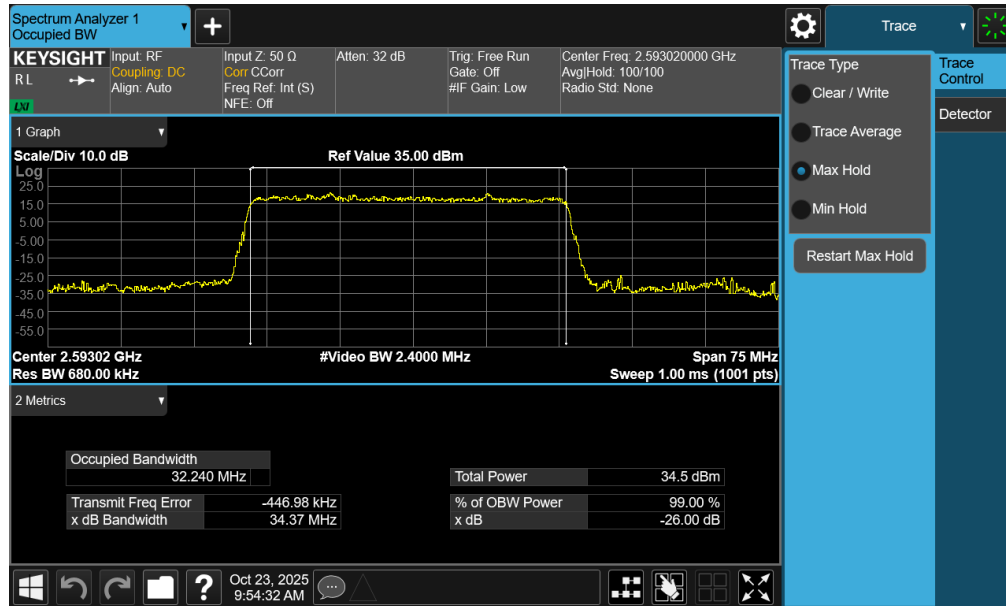


Plot 7-73. Occupied Bandwidth Plot (NR Band n41 PC2 – 40MHz QPSK – Full RB – Switch – Ant1)

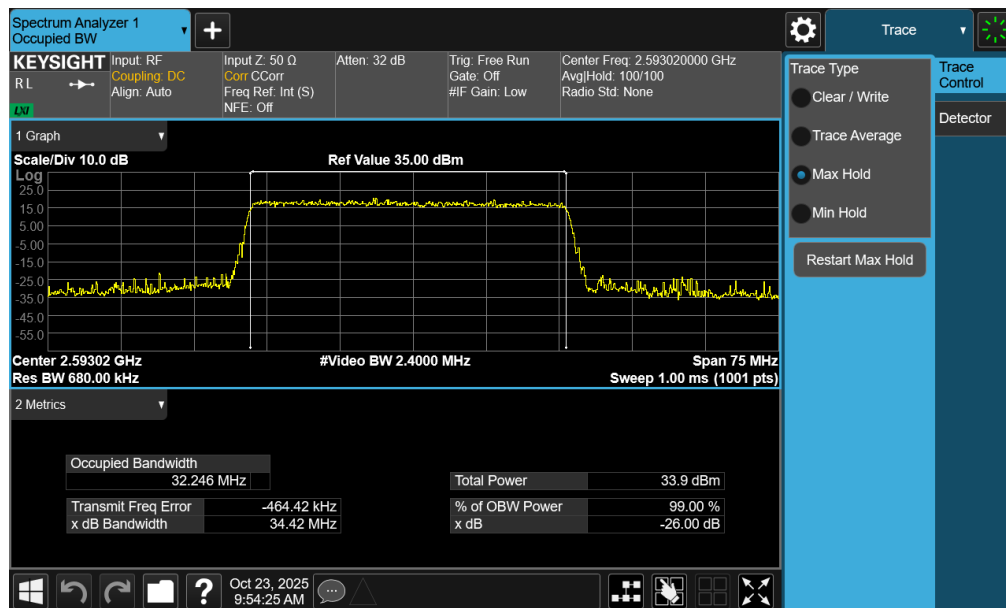


Plot 7-74. Occupied Bandwidth Plot (NR Band n41 PC2 – 40MHz 16-QAM – Full RB – Switch – Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 62 of 120

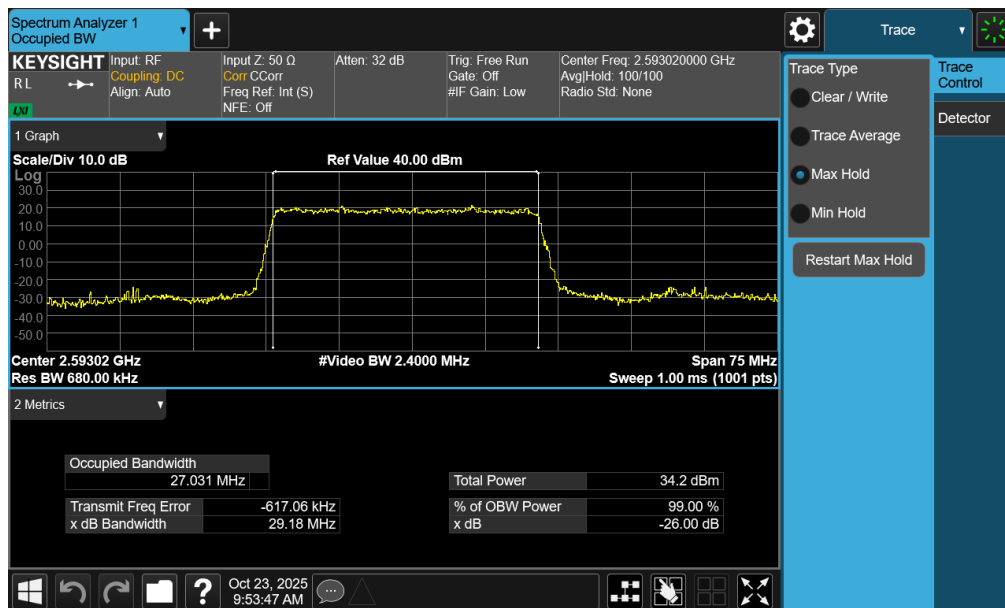
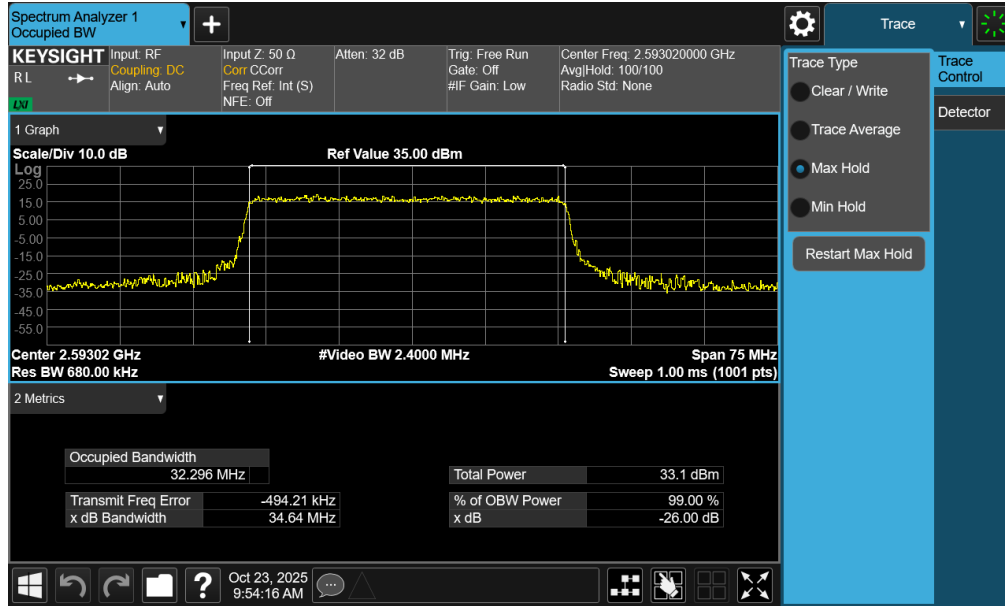


Plot 7-75. Occupied Bandwidth Plot (NR Band n41 PC2 – 35MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

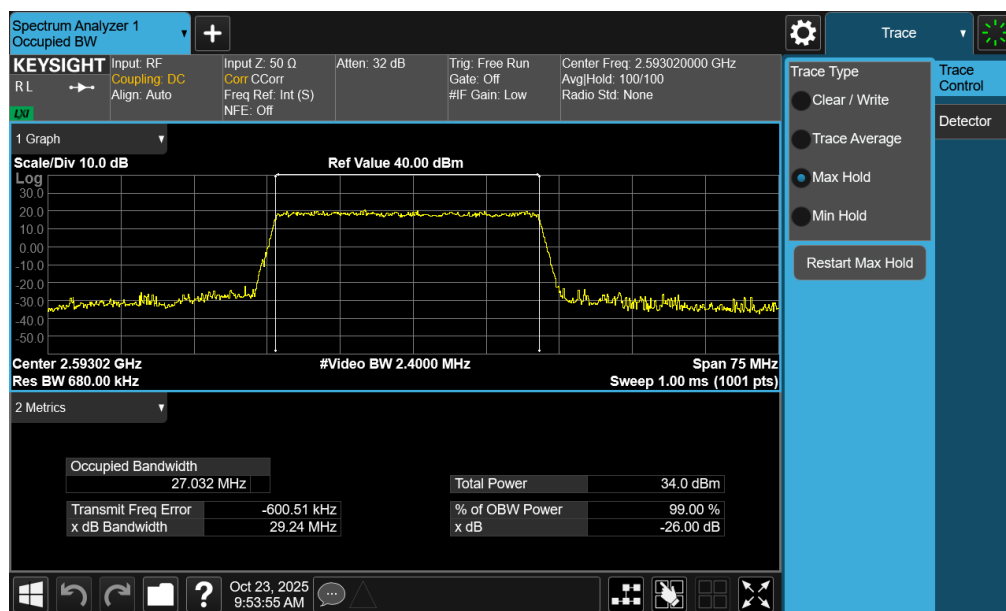


Plot 7-76. Occupied Bandwidth Plot (NR Band n41 PC2 – 35MHz QPSK – Full RB – Switch – Ant1)

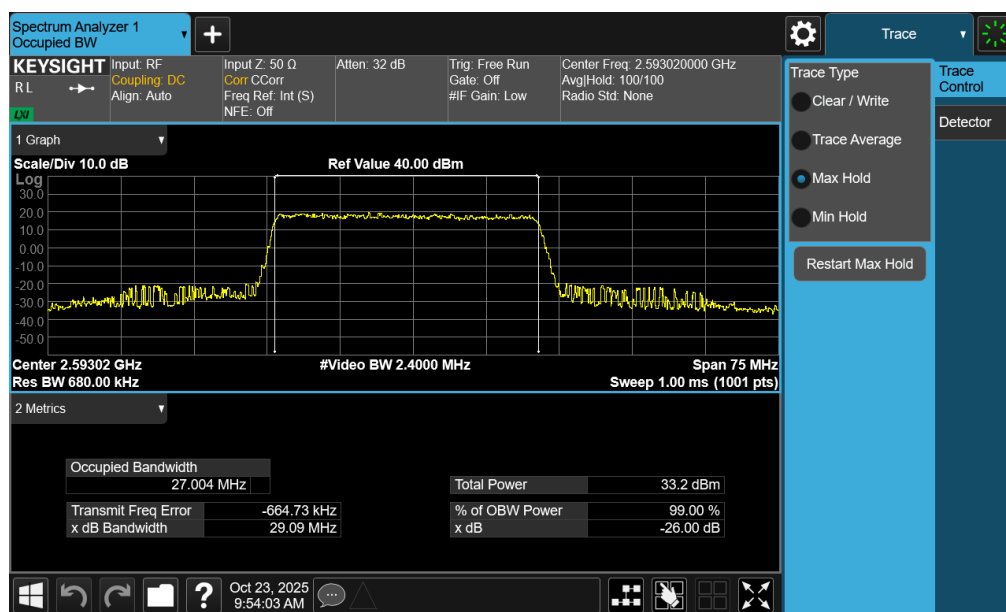
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 63 of 120



FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 64 of 120

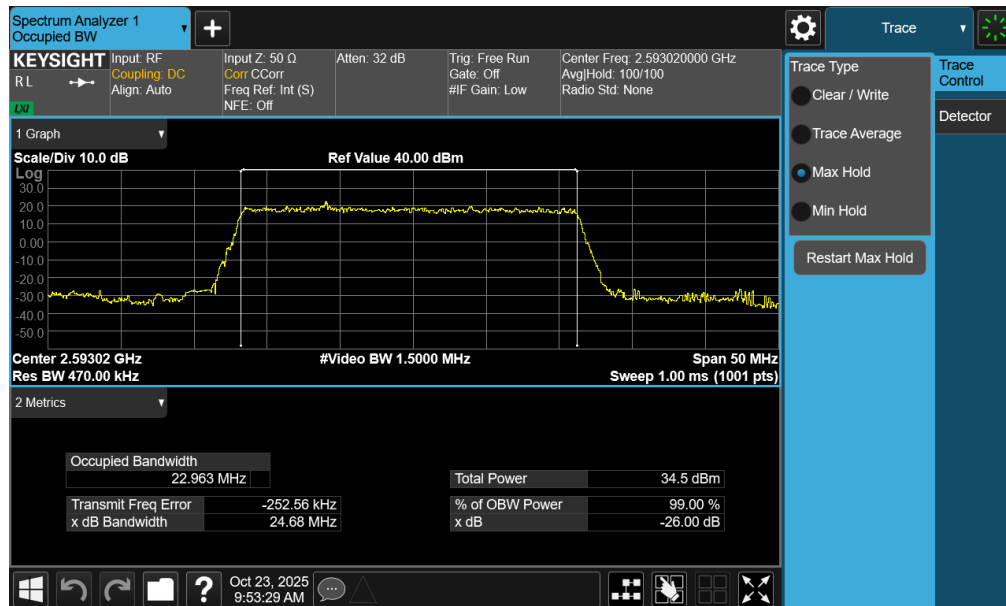


Plot 7-79. Occupied Bandwidth Plot (NR Band n41 PC2 – 30MHz QPSK – Full RB – Switch – Ant1)

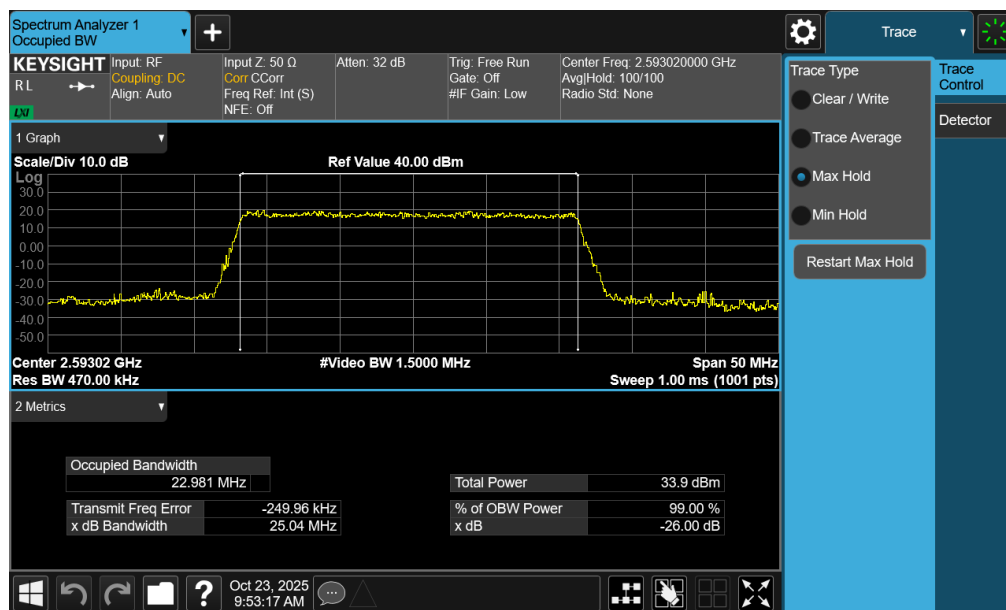


Plot 7-80. Occupied Bandwidth Plot (NR Band n41 PC2 – 30MHz 16-QAM – Full RB – Switch – Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 65 of 120

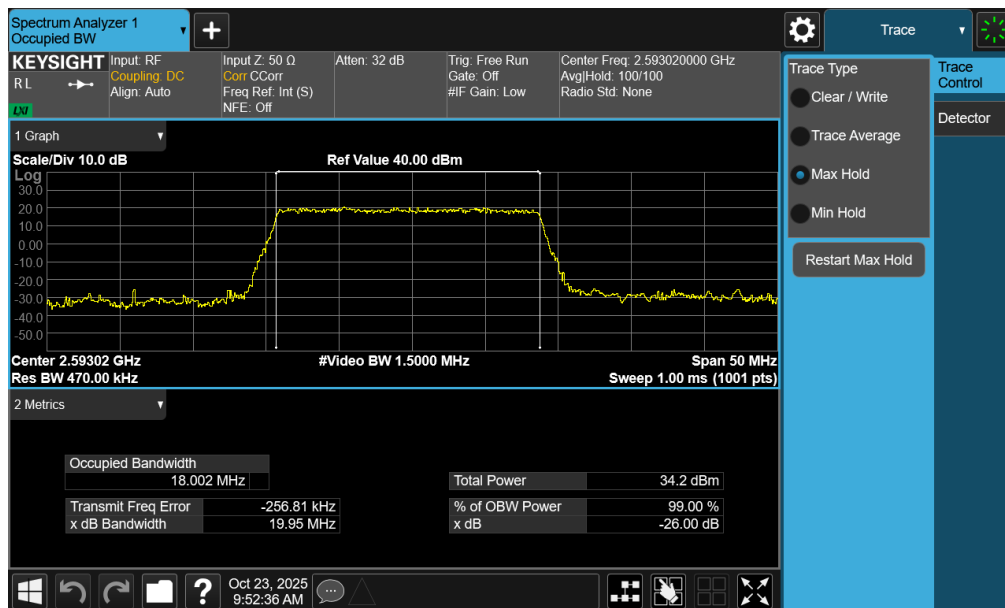
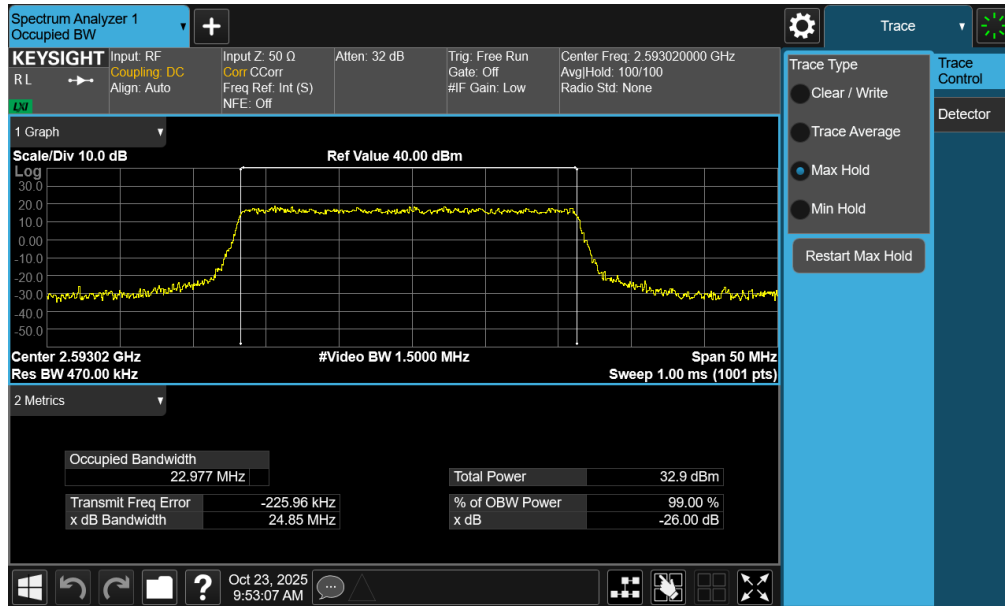


Plot 7-81. Occupied Bandwidth Plot (NR Band n41 PC2 – 25MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

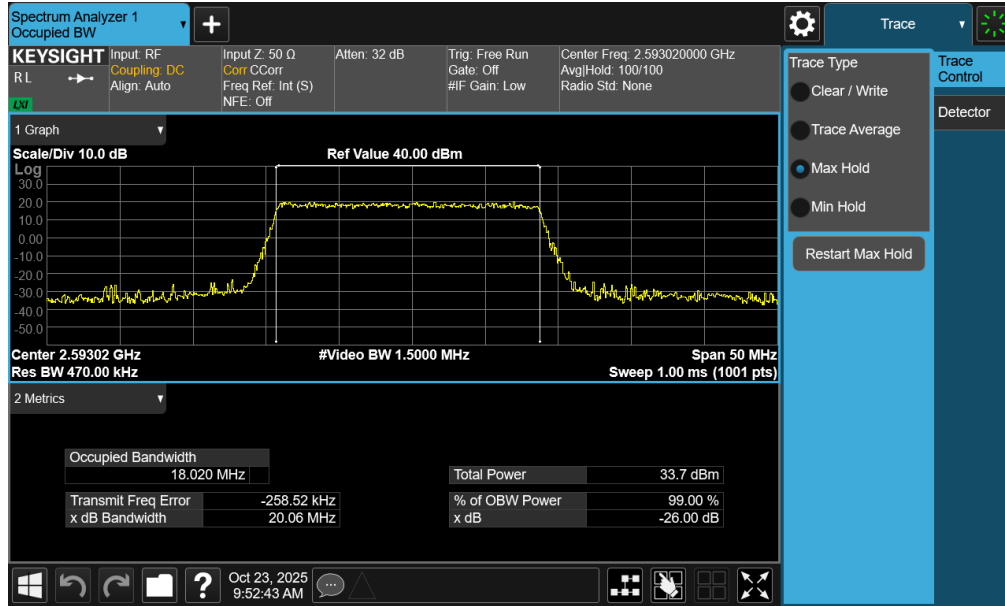


Plot 7-82. Occupied Bandwidth Plot (NR Band n41 PC2 – 25MHz QPSK – Full RB – Switch – Ant1)

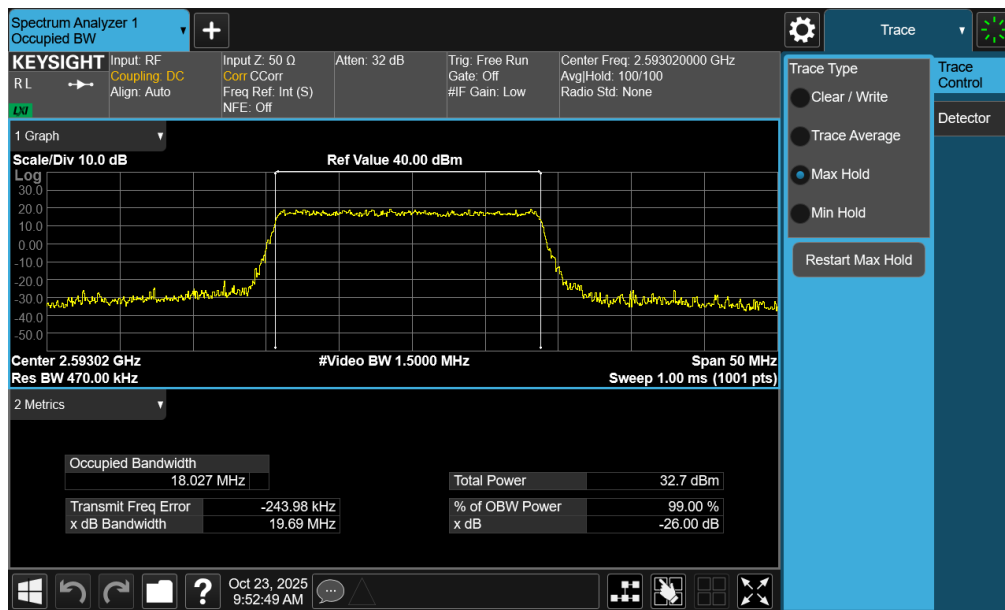
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 66 of 120



FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 67 of 120

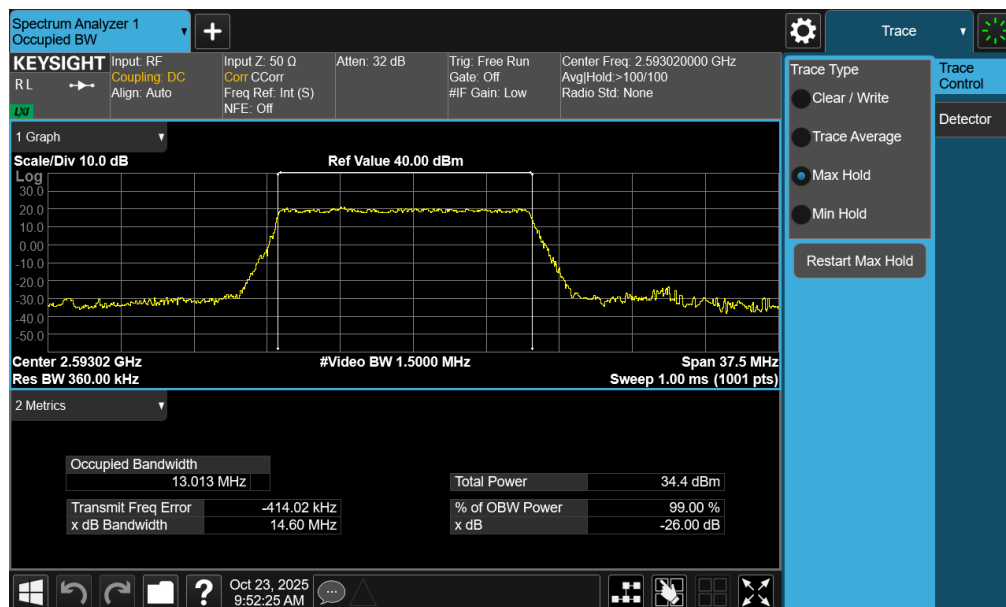


Plot 7-85. Occupied Bandwidth Plot (NR Band n41 PC2 – 20MHz QPSK – Full RB – Switch – Ant1)

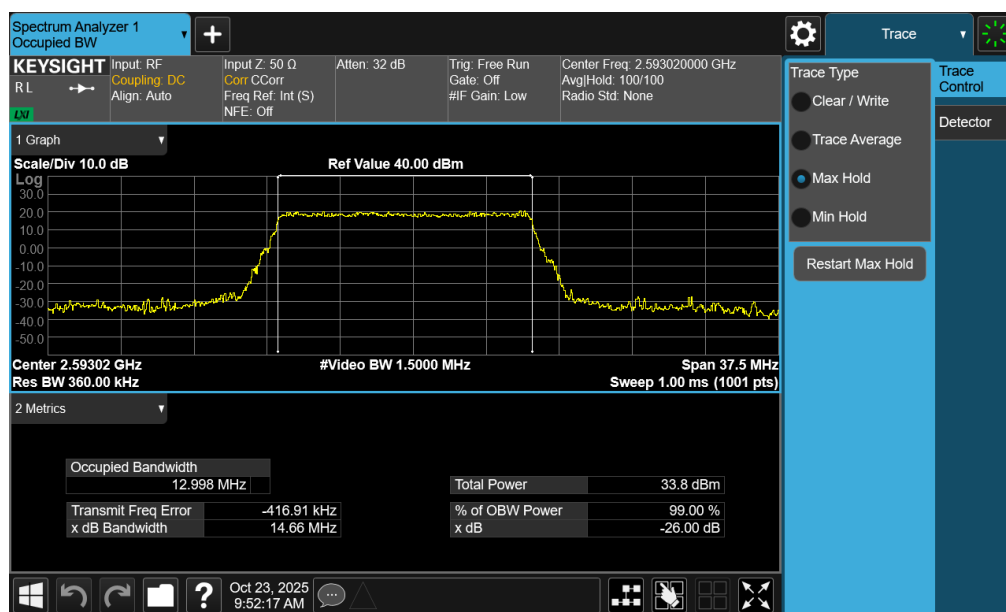


Plot 7-86. Occupied Bandwidth Plot (NR Band n41 PC2 – 20MHz 16-QAM – Full RB – Switch – Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 68 of 120

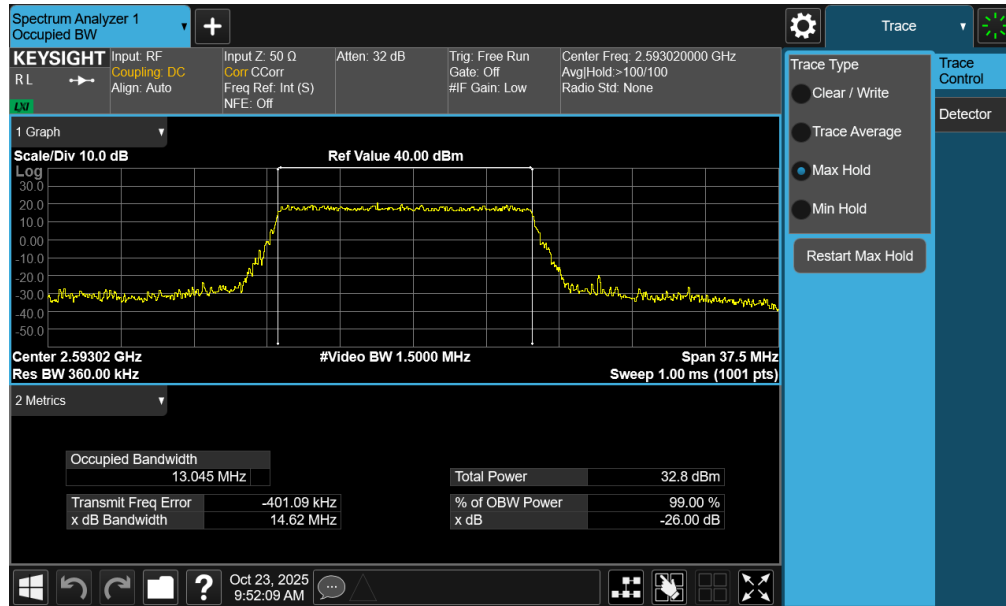


Plot 7-87. Occupied Bandwidth Plot (NR Band n41 PC2 – 15MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

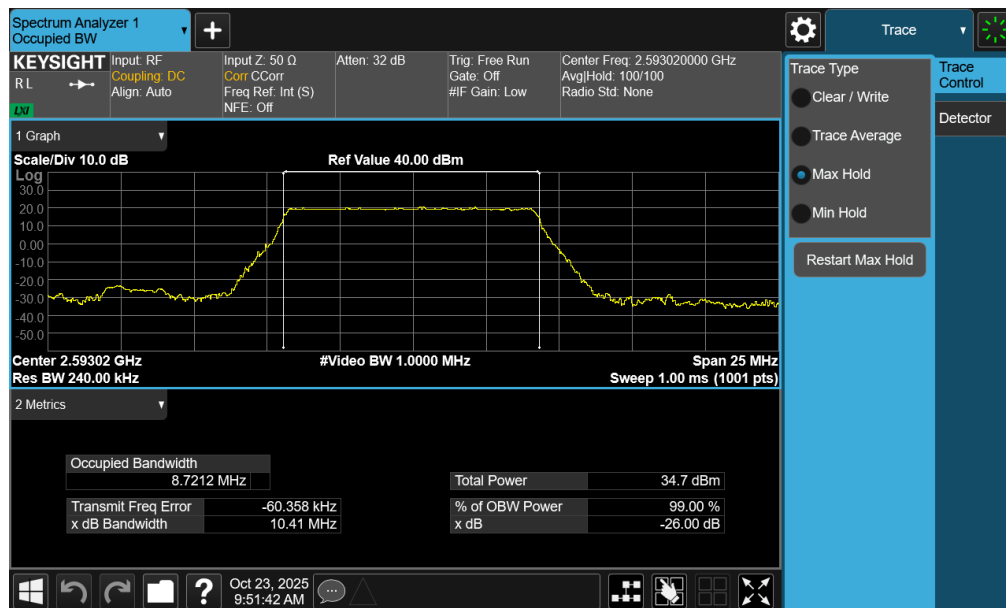


Plot 7-88. Occupied Bandwidth Plot (NR Band n41 PC2 – 15MHz QPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 69 of 120

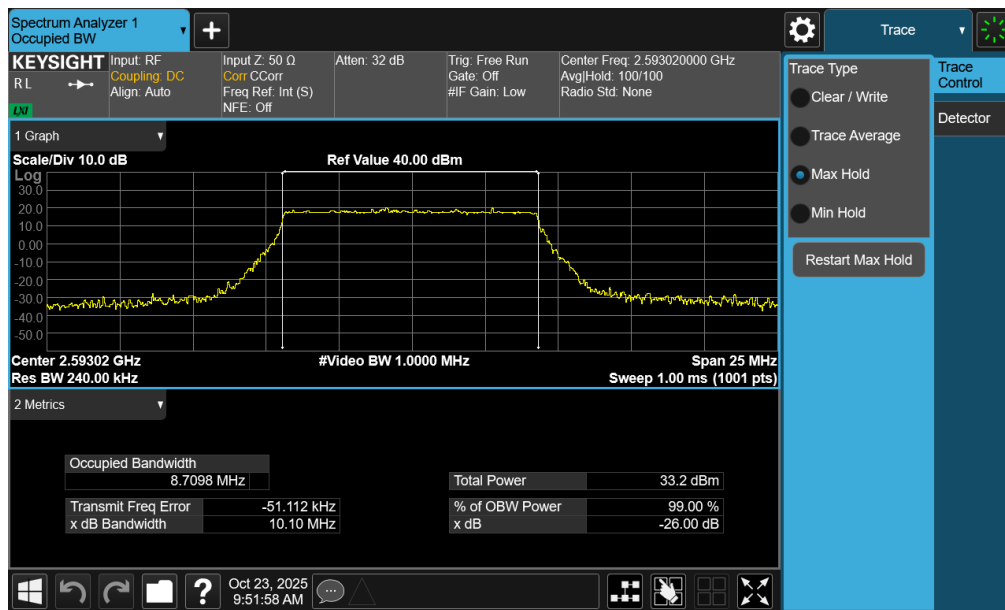
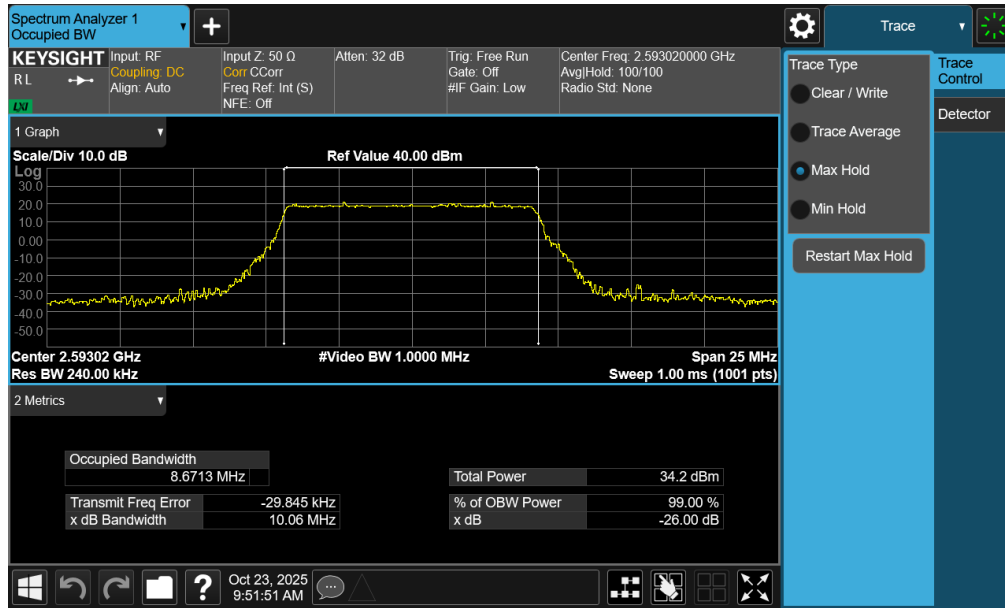


Plot 7-89. Occupied Bandwidth Plot (NR Band n41 PC2 – 15MHz 16-QAM – Full RB – Switch – Ant1)



Plot 7-90. Occupied Bandwidth Plot (NR Band n41 PC2 – 10MHz $\pi/2$ BPSK – Full RB – Switch – Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 70 of 120



FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 71 of 120

Mode	Bandwidth	Modulation	OBW [MHz]
LTE-B41PC3	20MHz	QPSK	18.06
		16QAM	18.03
	15MHz	QPSK	13.54
		16QAM	13.55
	10MHz	QPSK	9.05
		16QAM	9.04
	5MHz	QPSK	4.54
		16QAM	4.53

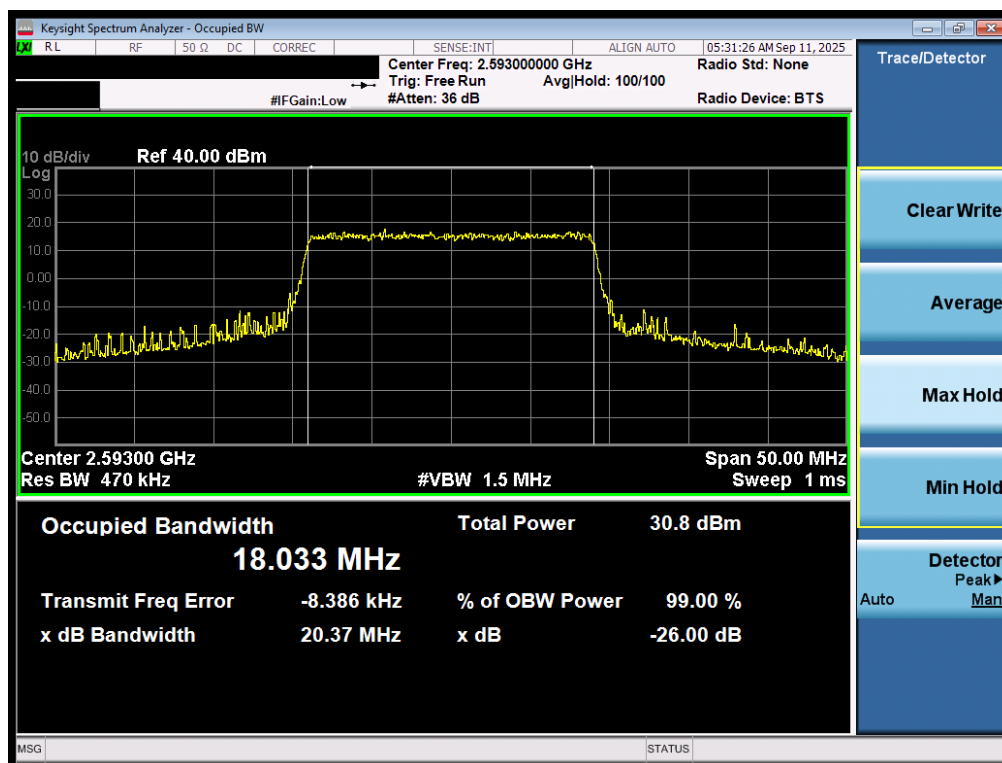
Table 7-8. Occupied Bandwidth Test Results – LTE – Ant 2

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 72 of 120

LTE Band 41(PC3) – Ant2

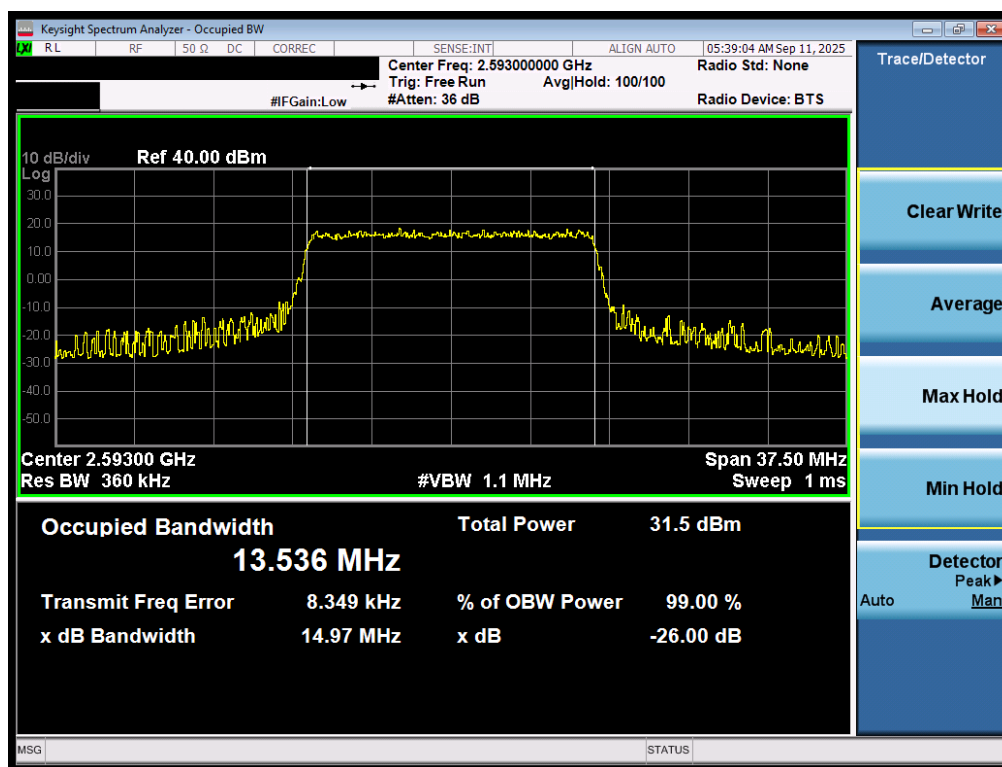


Plot 7-93. Occupied Bandwidth Plot (LTE Band 41(PC3) - 20MHz QPSK - Full RB - Ant2)

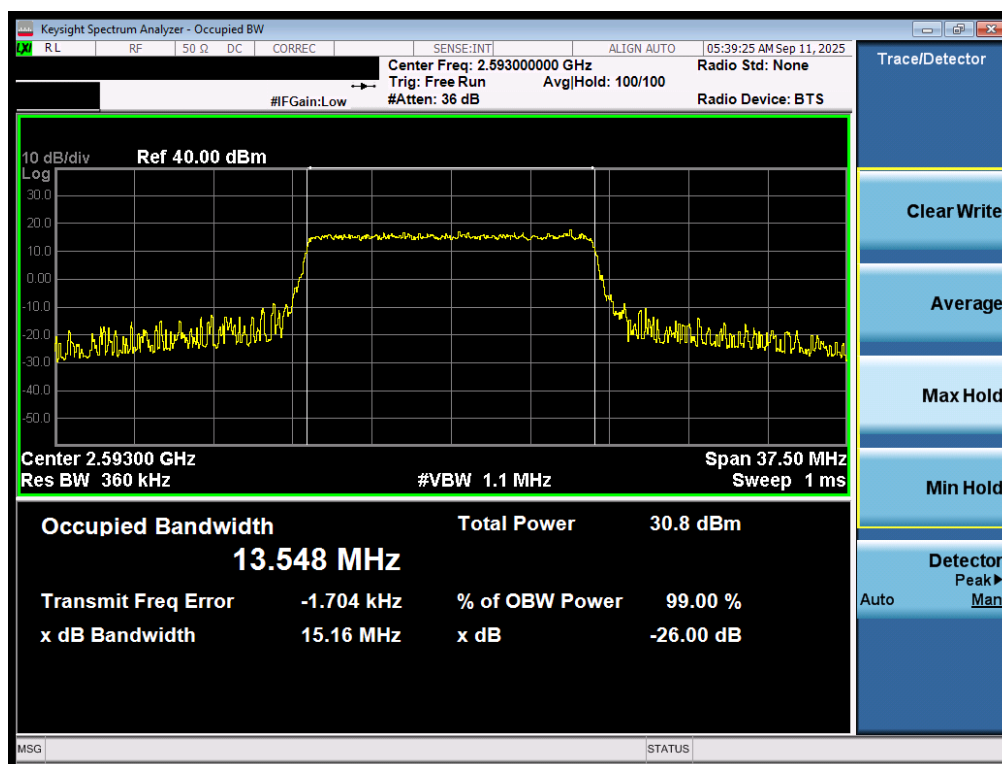


Plot 7-94. Occupied Bandwidth Plot (LTE Band 41(PC3) - 20MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 73 of 120



Plot 7-95. Occupied Bandwidth Plot (LTE Band 41(PC3) - 15MHz QPSK - Full RB - Ant2)



Plot 7-96. Occupied Bandwidth Plot (LTE Band 41(PC3) - 15MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 74 of 120



Plot 7-97. Occupied Bandwidth Plot (LTE Band 41(PC3) - 10MHz QPSK - Full RB - Ant2)



Plot 7-98. Occupied Bandwidth Plot (LTE Band 41(PC3) - 10MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 75 of 120



Plot 7-99. Occupied Bandwidth Plot (LTE Band 41(PC3) - 5MHz QPSK - Full RB - Ant2)



Plot 7-100. Occupied Bandwidth Plot (LTE Band 41(PC3) - 5MHz 16-QAM - Full RB - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 76 of 120

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 $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

For Band 41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{\text{Watts}})$.

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 10GHz (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.

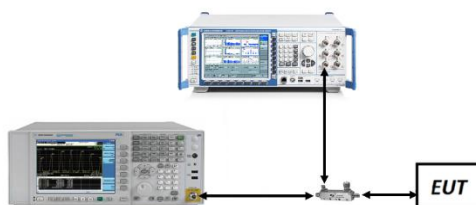


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27, 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.
3. Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

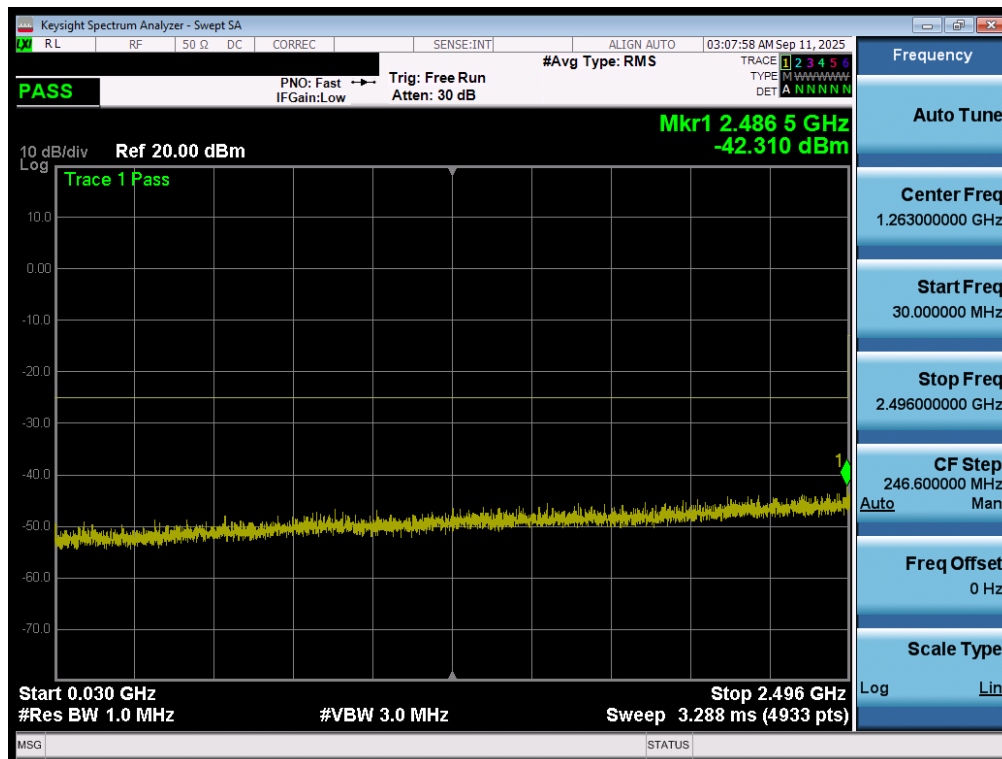
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 77 of 120

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-47.44	-25	-22.44
		Low	2365.0 - 15000.0	-37.57	-25	-12.57
		Low	15000.0 - 27000.0	-51.22	-25	-26.22
		Mid	30.0 - 2288.0	-42.2	-25	-17.20
		Mid	2570.0 - 15000.0	-37.79	-25	-12.79
		Mid	15000.0 - 27000.0	-51.34	-25	-26.34
		High	30.0 - 2288.0	-42.31	-25	-17.31
		High	2570.0 - 15000.0	-37.55	-25	-12.55
		High	15000.0 - 27000.0	-52.1	-25	-27.10

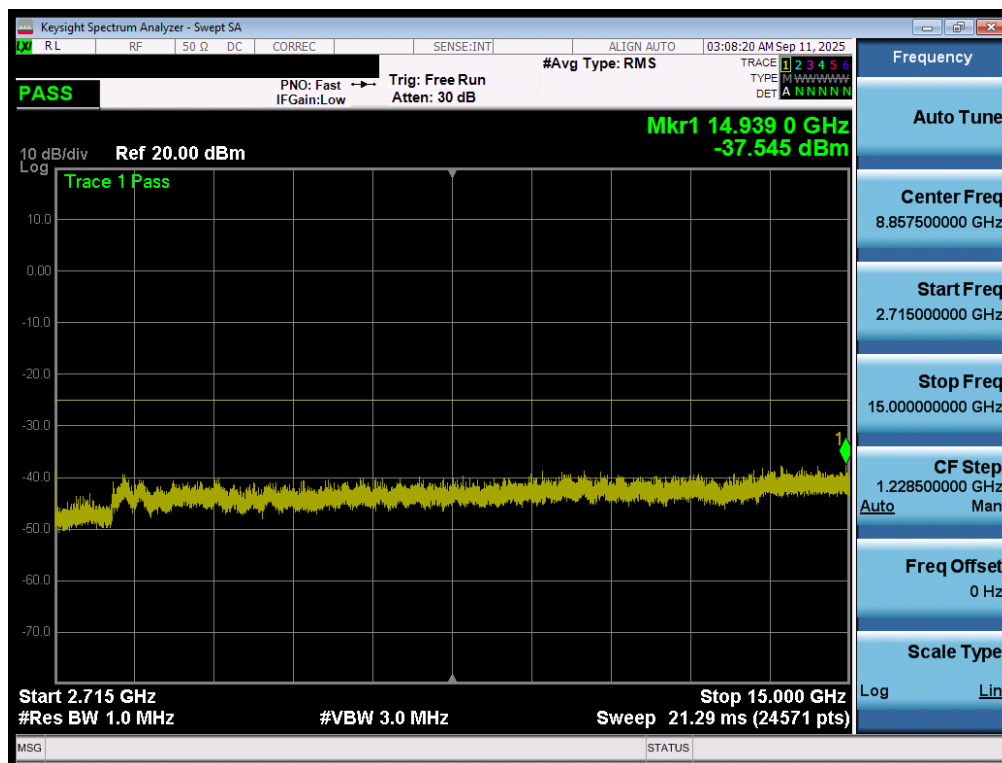
Table 7-9. Conducted Emission Test Results – LTE – Ant 1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 78 of 120

LTE Band 41(PC3)– Ant1

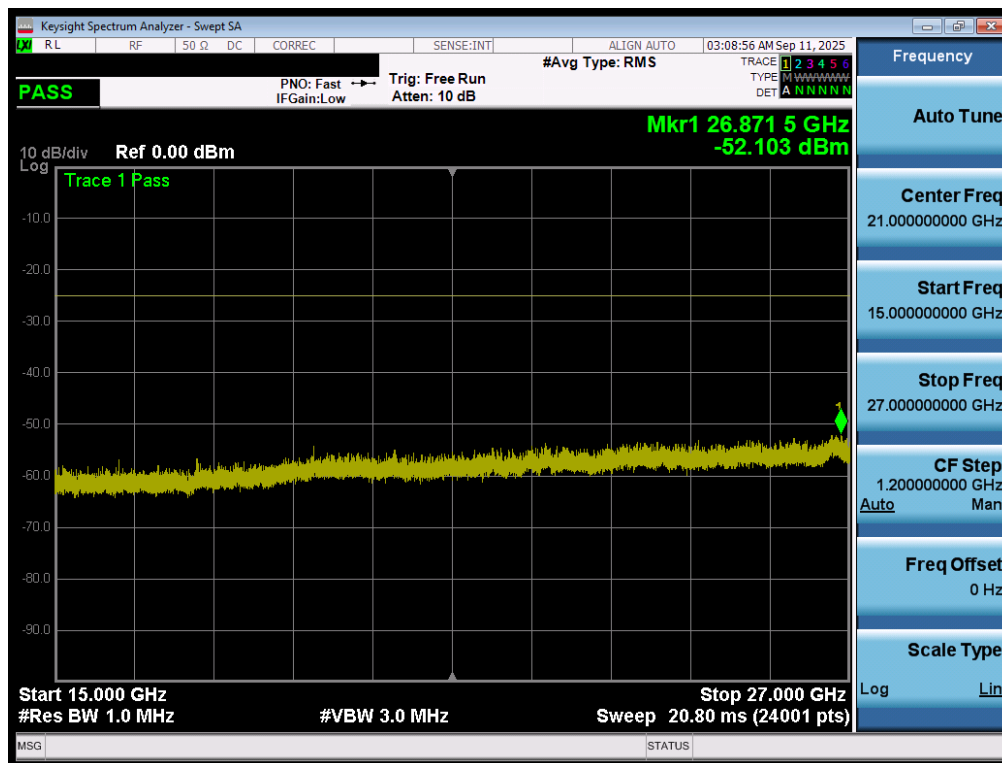


Plot 7-101. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)



Plot 7-102. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 79 of 120



Plot 7-103. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 80 of 120

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-42.92	-25	-17.92
		Low	2690.0 - 15000.0	-41.38	-25	-16.38
		Low	15000.0 - 27000.0	-55.76	-25	-30.76
		Mid	30.0 - 2470.0	-41.04	-25	-16.04
		Mid	2690.0 - 15000.0	-37.91	-25	-12.91
		Mid	15000.0 - 27000.0	-51.8	-25	-26.80
		High	30.0 - 2470.0	-39.71	-25	-14.70
		High	2690.0 - 15000.0	-37.78	-25	-12.78
		High	15000.0 - 27000.0	-51.8	-25	-26.80

Table 7-10. Conducted Emission Test Results – n41 default – Ant 1

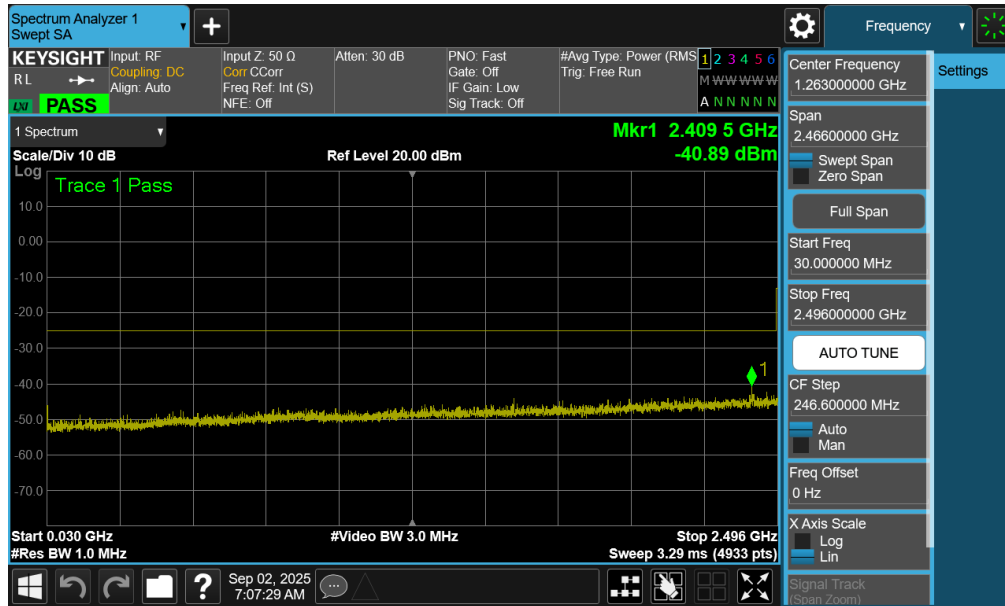
Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-42.05	-25	-17.05
		Low	2690.0 - 15000.0	-36.98	-25	-11.98
		Low	15000.0 - 27000.0	-52.02	-25	-27.02
		Mid	30.0 - 2470.0	-41.2	-25	-16.20
		Mid	2690.0 - 15000.0	-36.59	-25	-11.59
		Mid	15000.0 - 27000.0	-50.88	-25	-25.88
		High	30.0 - 2470.0	-41.44	-25	-16.44
		High	2690.0 - 15000.0	-36.88	-25	-11.88
		High	15000.0 - 27000.0	-52	-25	-27.00

Table 7-11. Conducted Emission Test Results – n41 switch – Ant 1

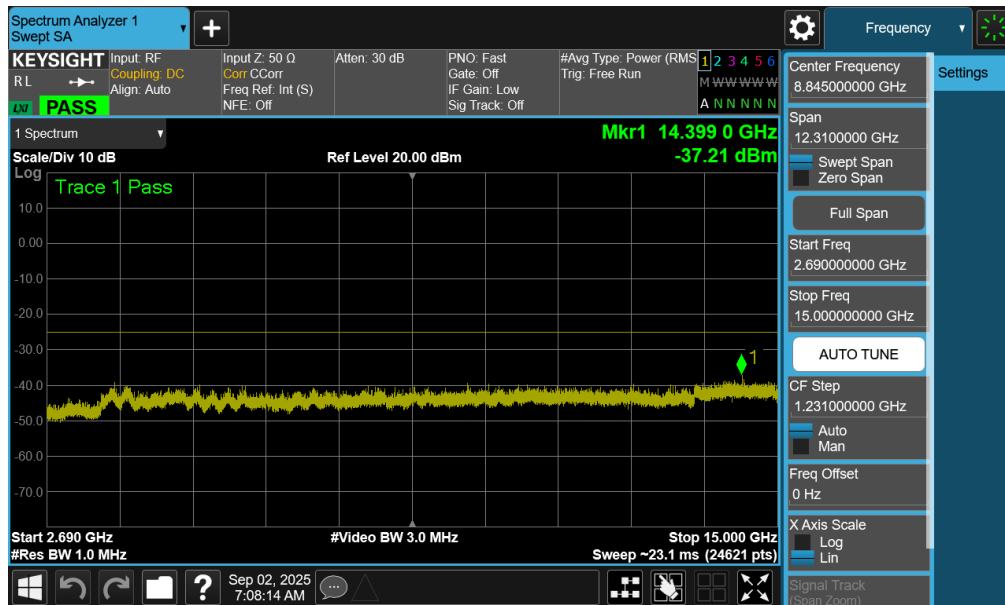
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 81 of 120



NR Band n41 – Main – Ant1

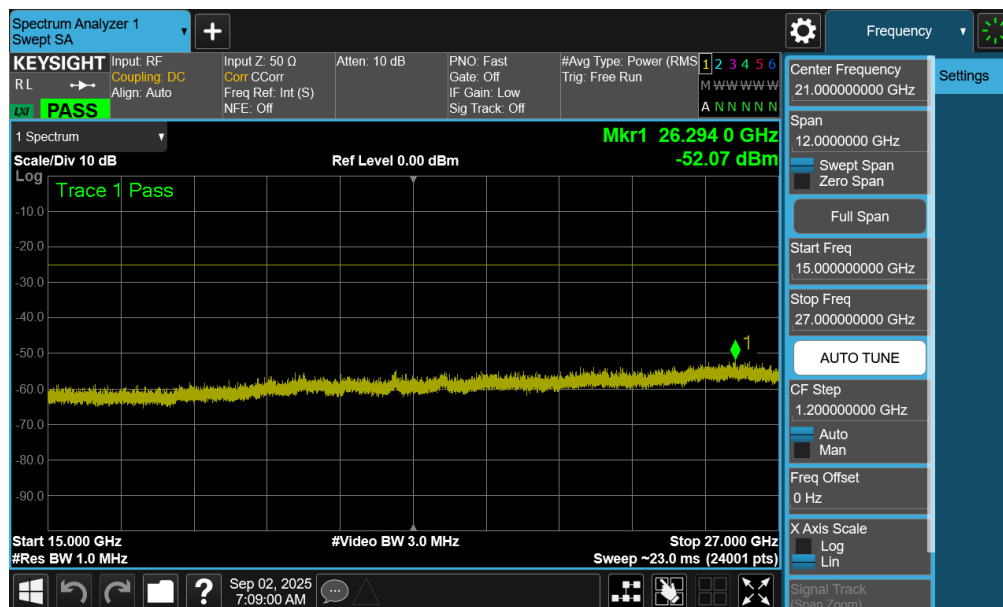


Plot 7-104. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)



Plot 7-105. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

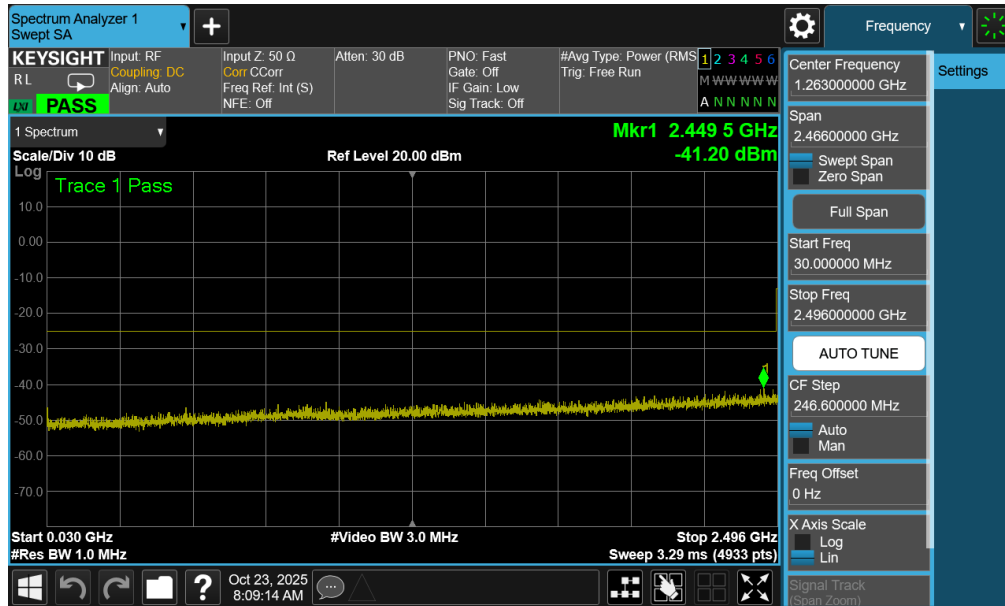
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 82 of 120



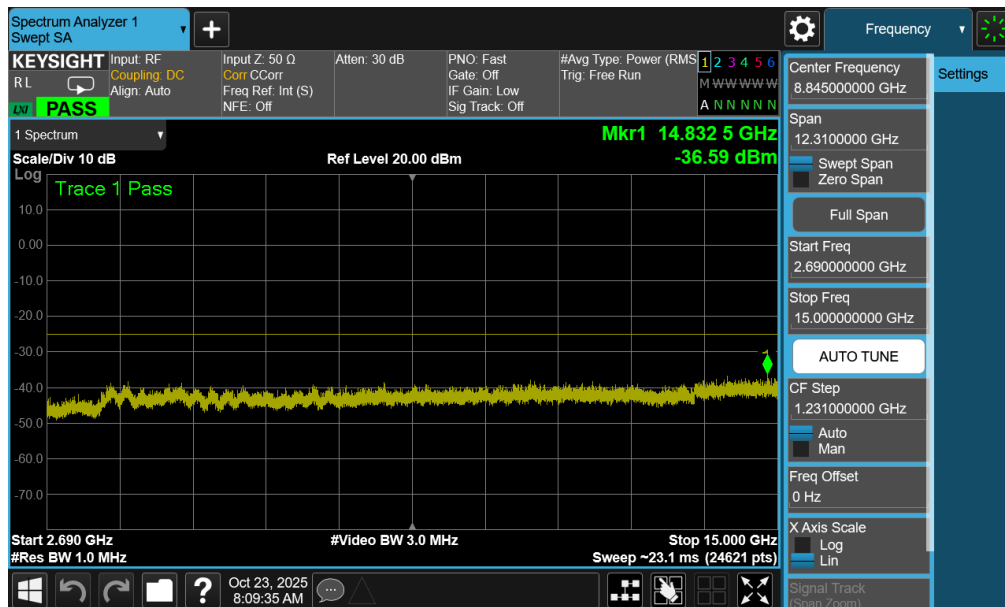
Plot 7-106. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 83 of 120

NR Band n41 – Switch – Ant1

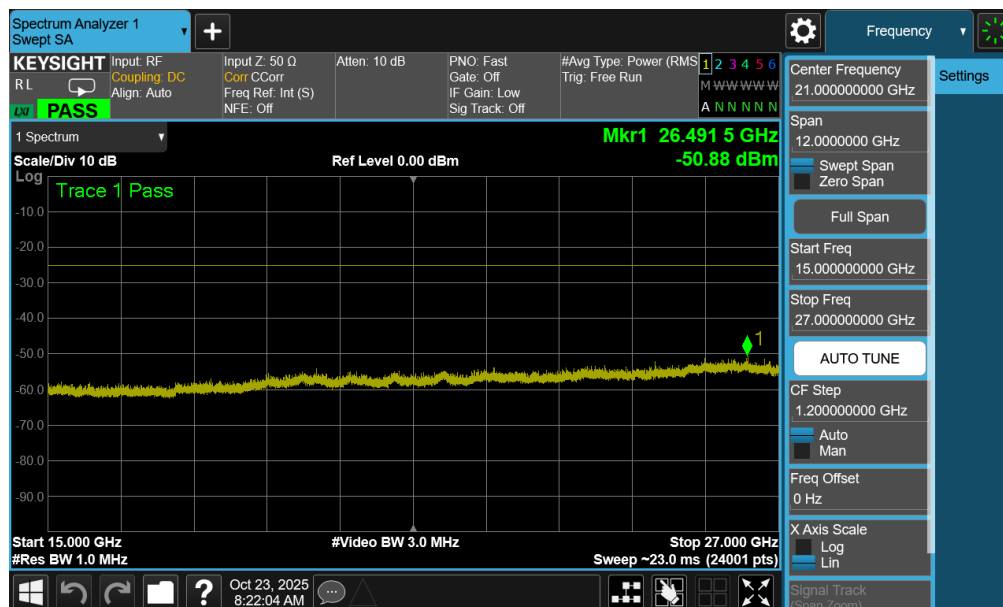


Plot 7-107. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)



Plot 7-108. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 84 of 120



Plot 7-109. Conducted Spurious Plot (NR Band n41PC2 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant1)

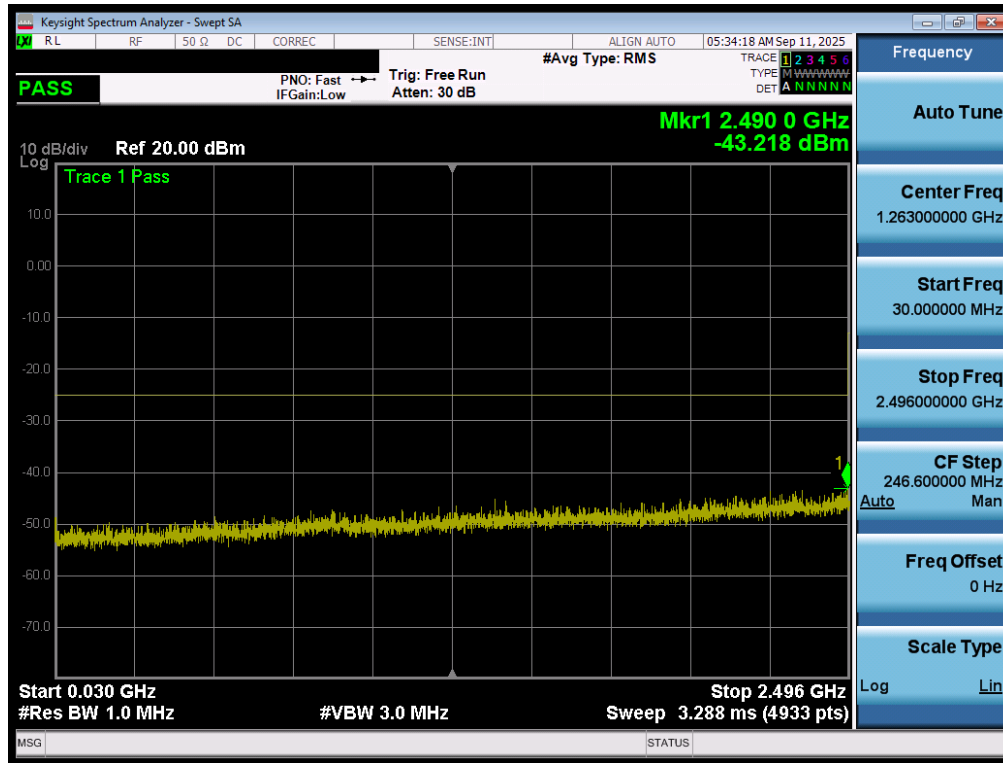
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 85 of 120

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-43.09	-25	-18.09
		Low	2365.0 - 15000.0	-37.53	-25	-12.53
		Low	15000.0 - 27000.0	-51.26	-25	-26.26
		Mid	30.0 - 2288.0	-43.22	-25	-18.22
		Mid	2570.0 - 15000.0	-36.51	-25	-11.51
		Mid	15000.0 - 27000.0	-51.68	-25	-26.68
		High	30.0 - 2288.0	-43.26	-25	-18.26
		High	2570.0 - 15000.0	-37.67	-25	-12.67
		High	15000.0 - 27000.0	-51.72	-25	-26.72

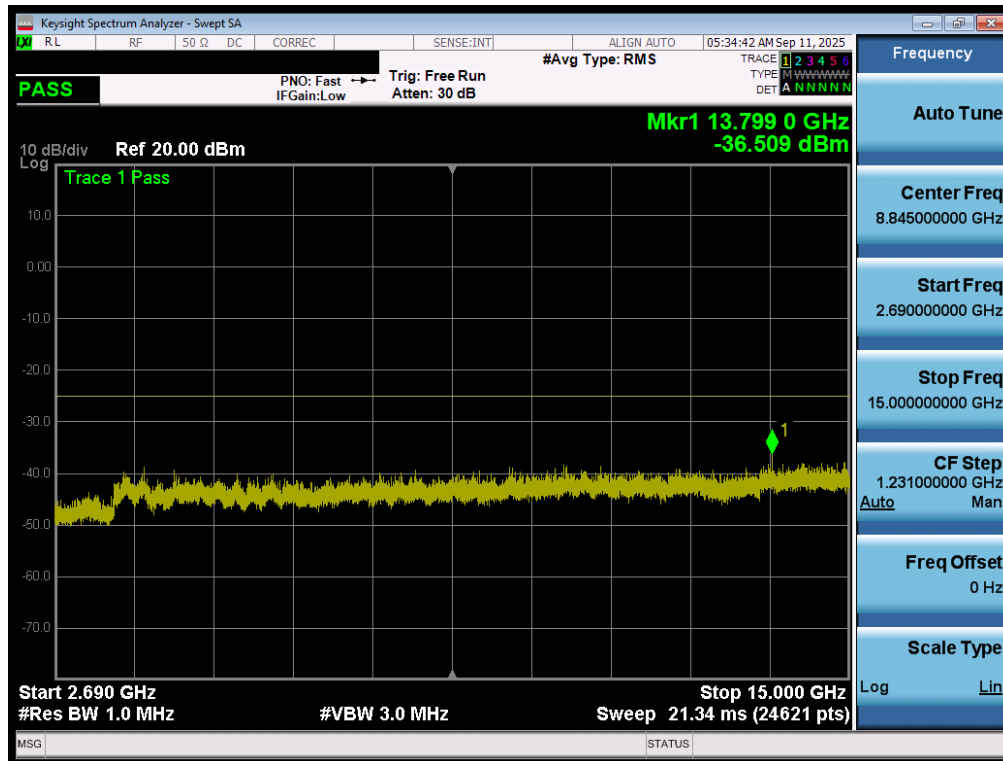
Table 7-12. Conducted Emission Test Results – LTE – Ant 2

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 86 of 120

LTE Band 41(PC3) – Ant2

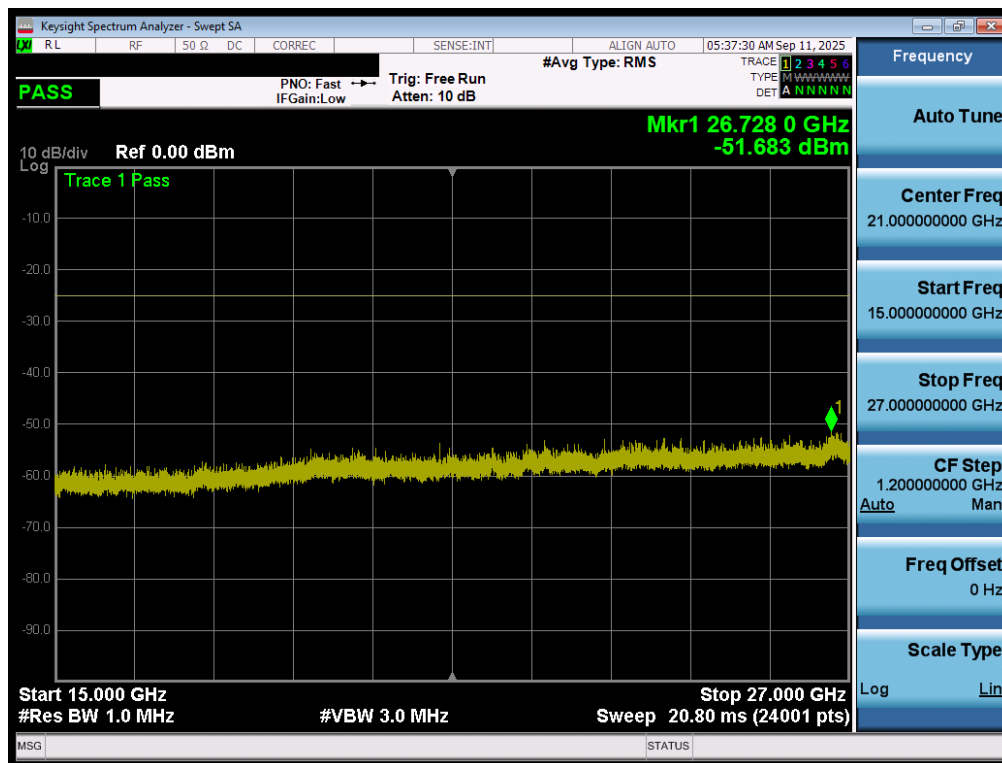


Plot 7-110. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)



Plot 7-111. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 87 of 120



Plot 7-112. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 88 of 120

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.

The minimum permissible attenuation level for Band 41 is as noted in the Test Notes on the following page.

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 $\geq 2 \times \text{Span}/RBW$
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.

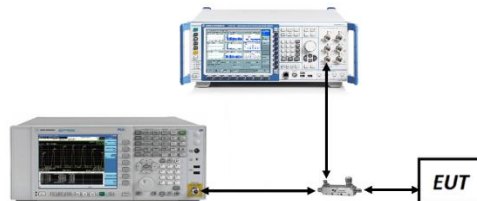


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 89 of 120

Test Notes

1. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 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.
3. Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

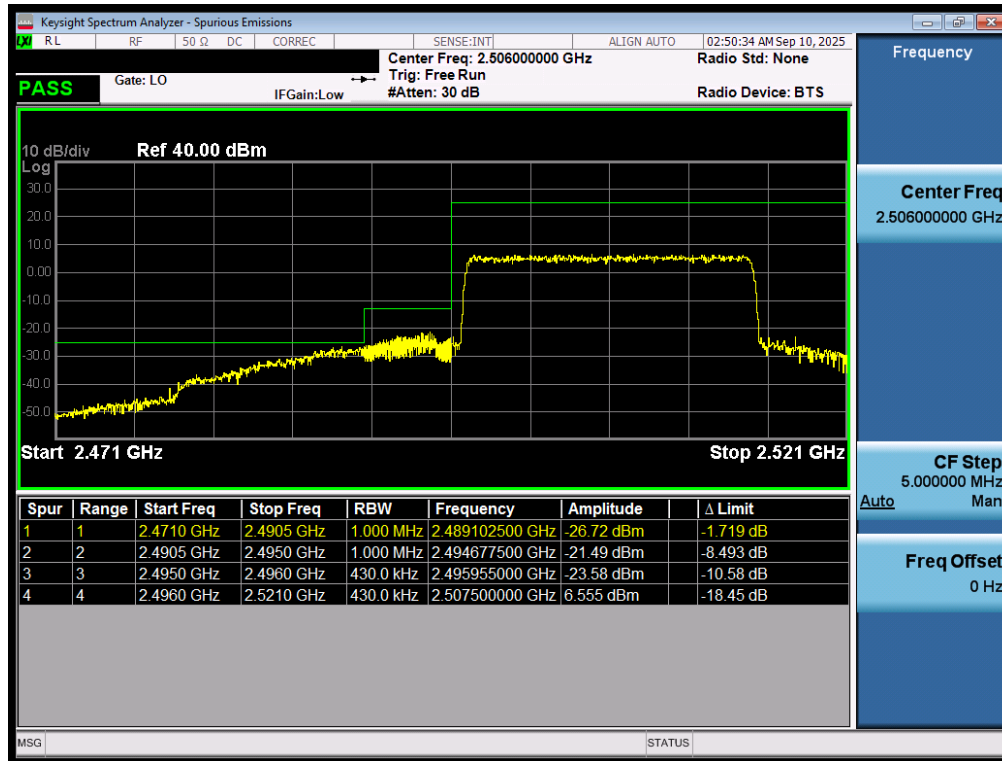
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 90 of 120

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-26.72	-25	-1.72
		High	Band Edge	-39.91	-25	-14.91
	15MHz	Low	Band Edge	-29.81	-25	-4.81
		High	Band Edge	-38.50	-25	-13.50
	10MHz	Low	Band Edge	-29.57	-25	-4.57
		High	Band Edge	-36.43	-25	-11.43
	5MHz	Low	Band Edge	-19.48	-13	-6.48
		High	Band Edge	-37.08	-25	-12.08

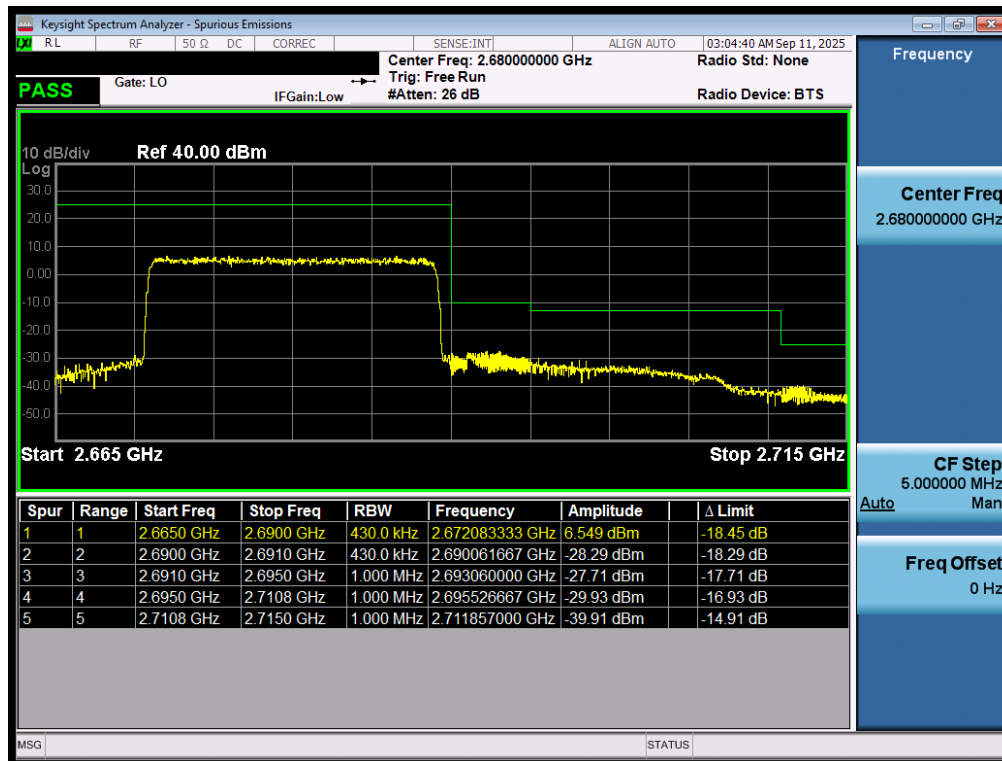
Table 7-13. Conducted Band Edge Test Results – LTE – Ant 1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 91 of 120

LTE Band 41(PC3) – Ant1



Plot 7-113. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant1)



Plot 7-114. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 92 of 120

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	Band Edge	-29.63	-25	-4.63
		High	Band Edge	-33.09	-13	-20.09
	90MHz	Low	Band Edge	-34.23	-25	-9.23
		High	Band Edge	-32.15	-10	-22.15
	80MHz	Low	Band Edge	-34.86	-25	-9.86
		High	Band Edge	-32.81	-10	-22.81
	70MHz	Low	Band Edge	-27.78	-25	-2.78
		High	Band Edge	-48.63	-25	-23.63
	60MHz	Low	Band Edge	-31.96	-25	-6.96
		High	Band Edge	-27.24	-10	-17.24
	50MHz	Low	Band Edge	-34.05	-25	-9.05
		High	Band Edge	-43.91	-25	-18.91
	45MHz	Low	Band Edge	-34.67	-25	-9.67
		High	Band Edge	-43.37	-25	-18.37
	40MHz	Low	Band Edge	-37.67	-25	-12.67
		High	Band Edge	-44.81	-25	-19.81
	35MHz	Low	Band Edge	-34.61	-25	-9.61
		High	Band Edge	-27.70	-10	-17.70
	30MHz	Low	Band Edge	-38.37	-25	-13.37
		High	Band Edge	-45.43	-25	-20.43
	25MHz	Low	Band Edge	-36.13	-25	-11.13
		High	Band Edge	-39.54	-25	-14.54
	20MHz	Low	Band Edge	-31.37	-25	-6.37
		High	Band Edge	-42.02	-25	-17.02
	15MHz	Low	Band Edge	-38.22	-25	-13.22
		High	Band Edge	-41.21	-25	-16.21
	10MHz	Low	Band Edge	-32.39	-25	-7.39
		High	Band Edge	-30.97	-10	-20.97

Table 7-14. Conducted Band Edge Test Results – n41 default – Ant 1

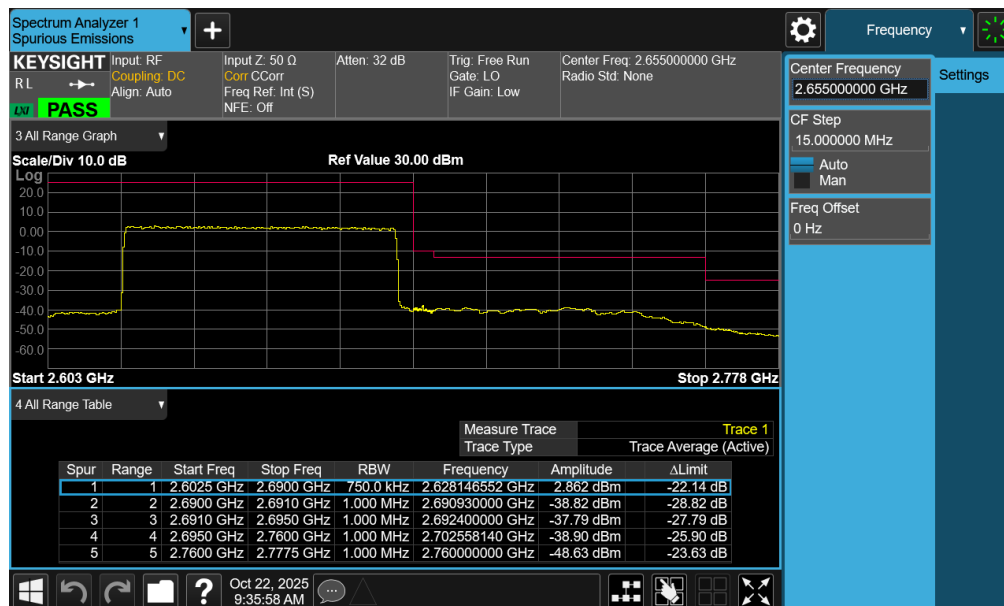
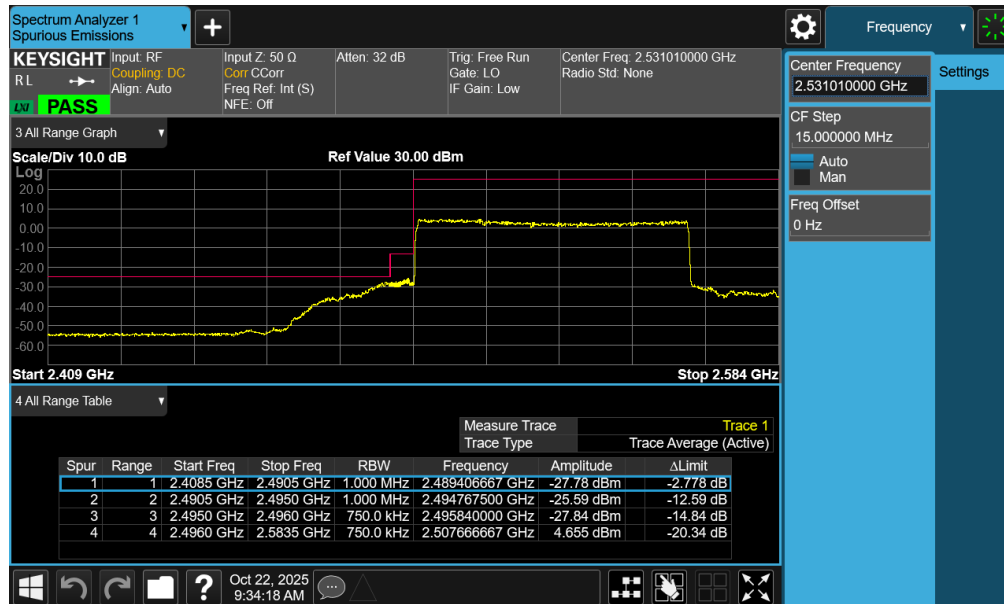
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 93 of 120

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	Band Edge	-32.67	-25	-7.67
		High	Band Edge	-26.50	-10	-16.50
	90MHz	Low	Band Edge	-25.89	-13	-12.89
		High	Band Edge	-29.31	-10	-19.31
	80MHz	Low	Band Edge	-37.56	-25	-12.56
		High	Band Edge	-30.95	-10	-20.95
	70MHz	Low	Band Edge	-37.32	-25	-12.32
		High	Band Edge	-31.72	-10	-21.72
	60MHz	Low	Band Edge	-37.53	-25	-12.53
		High	Band Edge	-24.34	-10	-14.34
	50MHz	Low	Band Edge	-32.32	-25	-7.32
		High	Band Edge	-42.30	-25	-17.30
	45MHz	Low	Band Edge	-36.94	-25	-11.94
		High	Band Edge	-43.22	-25	-18.22
	40MHz	Low	Band Edge	-39.68	-25	-14.68
		High	Band Edge	-45.99	-25	-20.99
	35MHz	Low	Band Edge	-37.82	-25	-12.82
		High	Band Edge	-43.37	-25	-18.37
	30MHz	Low	Band Edge	-36.43	-25	-11.43
		High	Band Edge	-44.49	-25	-19.49
	25MHz	Low	Band Edge	-33.70	-25	-8.70
		High	Band Edge	-41.71	-25	-16.71
	20MHz	Low	Band Edge	-35.29	-25	-10.29
		High	Band Edge	-42.31	-25	-17.31
	15MHz	Low	Band Edge	-34.18	-25	-9.18
		High	Band Edge	-41.51	-25	-16.51
	10MHz	Low	Band Edge	-35.01	-25	-10.01
		High	Band Edge	-28.63	-10	-18.63

Table 7-15. Conducted Band Edge Test Results – n41 switch – Ant 1

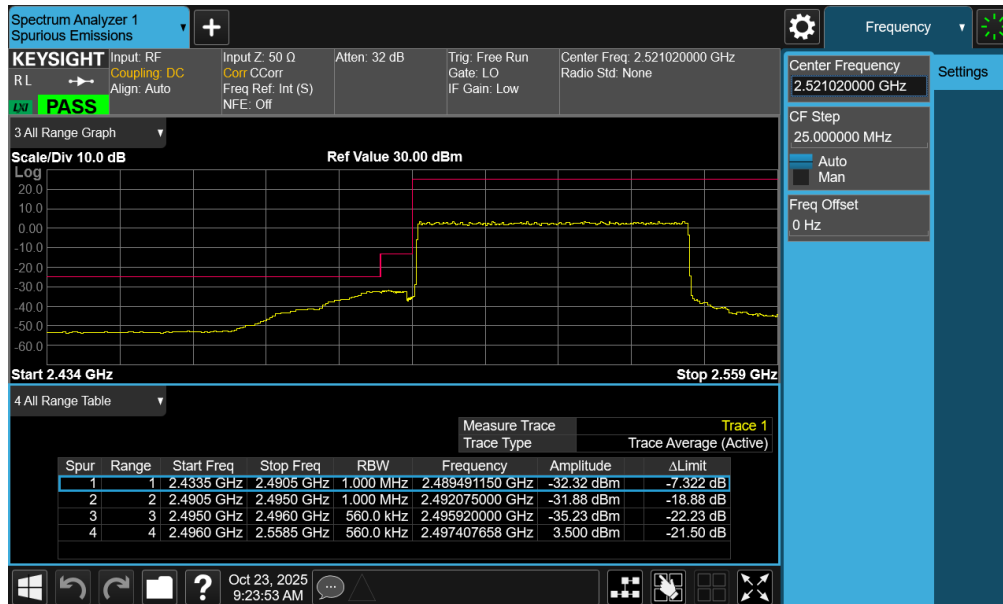
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 94 of 120

NR Band n41 – Main – Ant1

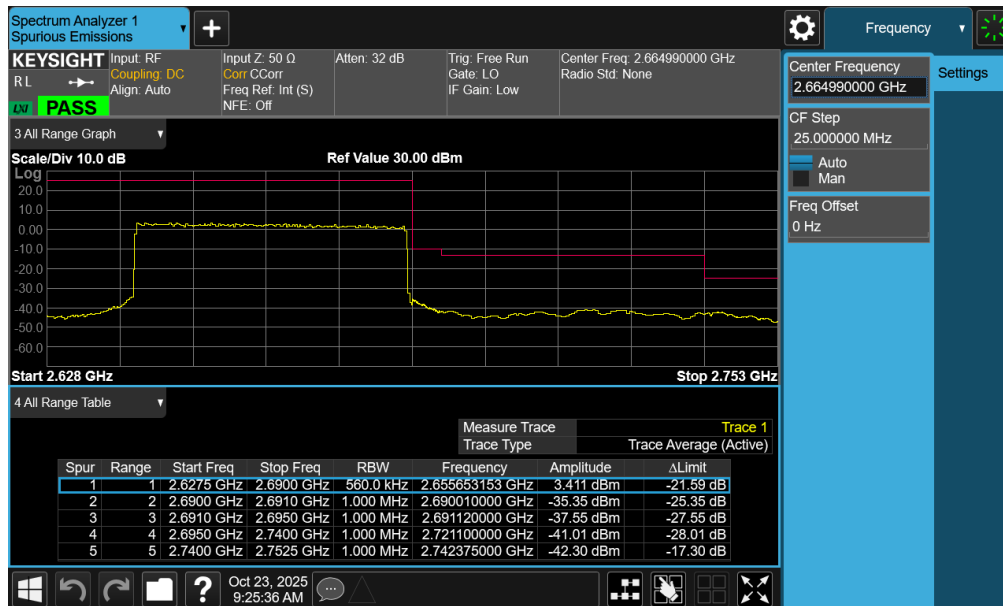


FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 95 of 120

NR Band n41 – Switch – Ant1



Plot 7-117. Lower ACP Plot (NR Band n41PC2 - 50MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-118. Upper ACP Plot (NR Band n41PC2 - 50MHz CP-OFDM-QPSK – Full RB - Ant1)

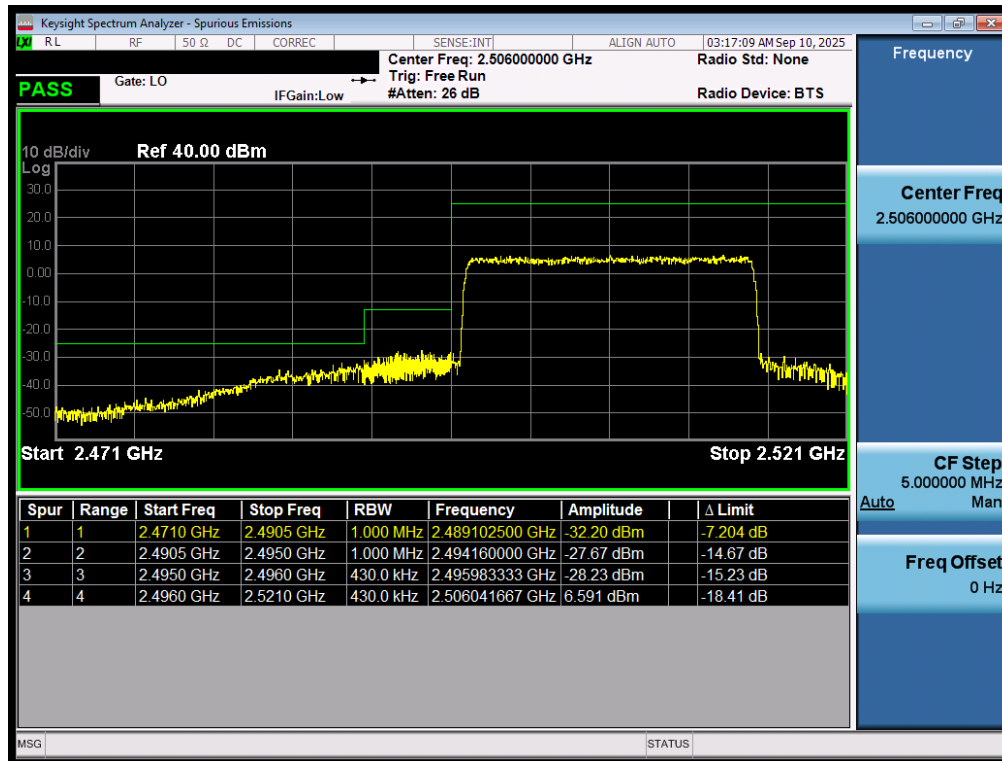
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 96 of 120

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-32.20	-25	-7.20
		High	Band Edge	-40.86	-25	-15.86
	15MHz	Low	Band Edge	-32.97	-25	-7.97
		High	Band Edge	-38.56	-25	-13.56
	10MHz	Low	Band Edge	-36.53	-25	-11.53
		High	Band Edge	-39.04	-25	-14.04
	5MHz	Low	Band Edge	-37.09	-25	-12.09
		High	Band Edge	-37.61	-25	-12.61

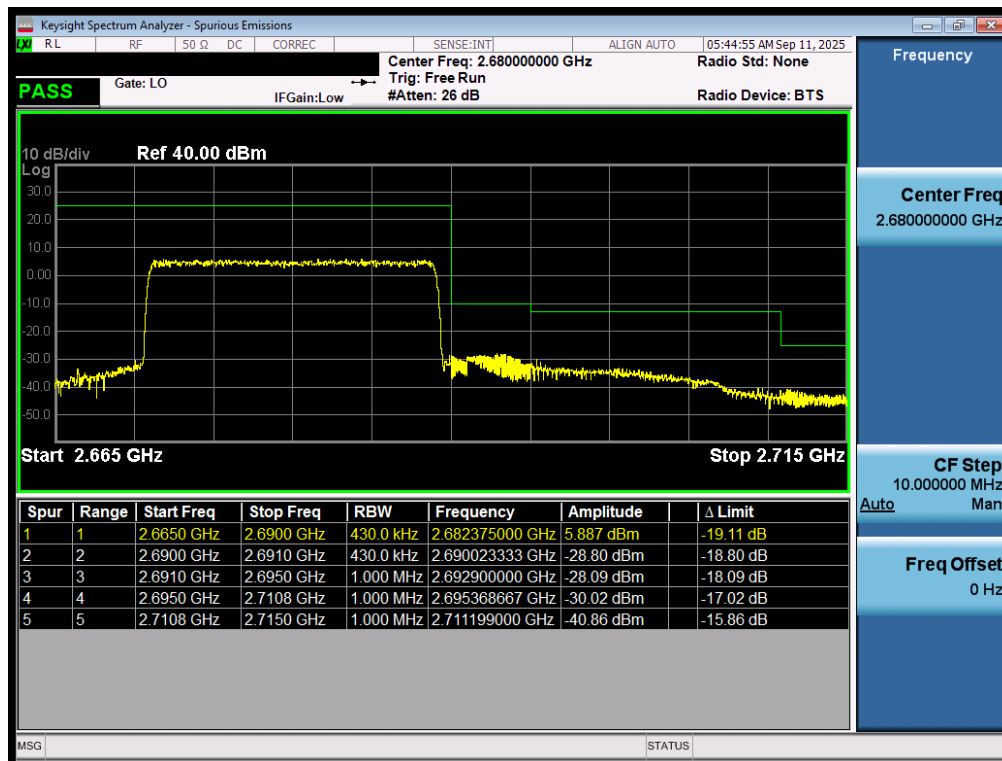
Table 7-16. Conducted Band Edge Test Results – LTE – Ant 2

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 97 of 120

LTE Band 41(PC3) – Ant2



Plot 7-119. Lower ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant2)



Plot 7-120. Upper ACP Plot (LTE Band 41(PC3) - 20MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 98 of 120

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: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 99 of 120

Test Setup

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

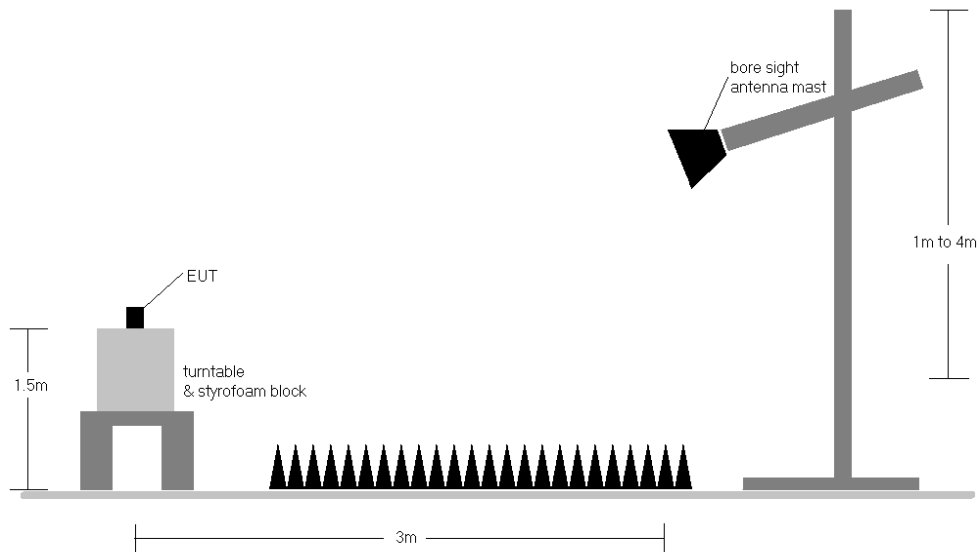


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 4) Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 100 of 120

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	135	333	4.17	1 / 0	19.12	23.29	0.213	33.01	-9.72
	QPSK	2593.0	H	118	320	4.00	1 / 50	19.00	23.00	0.199	33.01	-10.01
	QPSK	2680.0	H	137	319	4.50	1 / 0	17.61	22.11	0.163	33.01	-10.90
	16-QAM	2506.0	H	135	333	4.17	1 / 0	18.40	22.57	0.181	33.01	-10.44
15 MHz	QPSK	2503.5	H	135	333	4.17	1 / 74	18.29	22.47	0.176	33.01	-10.54
	QPSK	2593.0	H	118	320	4.00	1 / 37	18.58	22.58	0.181	33.01	-10.43
	QPSK	2682.5	H	137	319	4.51	1 / 37	17.12	21.63	0.145	33.01	-11.38
	16-QAM	2503.5	H	135	333	4.17	1 / 74	18.18	22.36	0.172	33.01	-10.65
10 MHz	QPSK	2501.0	H	135	333	4.17	1 / 49	18.20	22.37	0.172	33.01	-10.64
	QPSK	2593.0	H	118	320	4.00	1 / 25	18.65	22.65	0.184	33.01	-10.36
	QPSK	2685.0	H	137	319	4.52	1 / 25	17.11	21.63	0.145	33.01	-11.38
	16-QAM	2593.0	H	118	320	4.00	1 / 25	18.35	22.35	0.172	33.01	-10.66
5 MHz	QPSK	2498.5	H	135	333	4.16	1 / 12	18.31	22.48	0.177	33.01	-10.53
	QPSK	2593.0	H	118	320	4.00	1 / 12	18.64	22.64	0.183	33.01	-10.37
	QPSK	2687.5	H	137	319	4.53	1 / 12	17.15	21.68	0.147	33.01	-11.33
	16-QAM	2593.0	H	118	320	4.00	1 / 12	18.39	22.39	0.174	33.01	-10.62
20 MHz	Opposite Pol.	2506.0	V	362	131	4.81	1 / 0	17.82	22.63	0.183	33.01	-10.38
	WCP	2506.0	H	128	321	4.18	1 / 0	18.32	22.50	0.178	33.01	-10.51

Table 7-17. EIRP Data (LTE Band 41(PC3)) – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 101 of 120



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [dBi]	Antenna Height [cm]	Turntable Azimuth (degree)	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP (Watts)	ERP Limit [dBm]	Margin [dB]
100 MHz	n/2 BPSK	2546.01	H	153	319	4.19	1 / 1	18.79	22.98	0.199	33.01	-10.03
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 136	19.47	23.47	0.222	33.01	-9.54
	n/2 BPSK	2640.00	H	108	331	4.31	1 / 1	19.45	23.76	0.238	33.01	-9.25
	QPSK	2546.01	H	153	319	4.19	1 / 1	18.88	23.07	0.203	33.01	-9.94
	QPSK	2592.99	H	112	321	4.00	1 / 136	19.87	23.87	0.244	33.01	-9.14
	QPSK	2640.00	H	108	331	4.31	1 / 1	19.35	23.66	0.232	33.01	-9.35
	16-QAM	2546.01	H	153	319	4.19	1 / 1	17.67	21.86	0.154	33.01	-11.15
	16-QAM	2592.99	H	112	321	4.00	1 / 136	19.19	23.19	0.208	33.01	-9.82
	16-QAM	2640.00	H	108	331	4.31	1 / 1	18.16	22.49	0.178	33.01	-10.52
	n/2 BPSK	2541.00	H	153	319	4.19	1 / 1	19.26	23.45	0.221	33.01	-9.56
80 MHz	n/2 BPSK	2592.99	H	112	321	4.00	1 / 122	20.10	24.10	0.257	33.01	-9.91
	QPSK	2644.98	H	108	331	4.36	1 / 1	19.72	24.07	0.255	33.01	-9.94
	QPSK	2541.00	H	153	319	4.19	1 / 1	19.15	23.34	0.216	33.01	-9.67
	QPSK	2592.99	H	112	321	4.00	1 / 243	20.22	24.22	0.264	33.01	-9.79
	QPSK	2644.98	H	108	331	4.36	1 / 122	19.22	23.57	0.228	33.01	-9.44
	16-QAM	2541.00	H	153	319	4.19	1 / 1	17.49	21.68	0.147	33.01	-11.33
	16-QAM	2592.99	H	112	321	4.00	1 / 122	19.06	23.06	0.202	33.01	-9.95
	16-QAM	2644.98	H	108	331	4.36	1 / 1	18.09	22.44	0.178	33.01	-10.57
	n/2 BPSK	2536.02	H	153	319	4.19	1 / 1	19.30	23.49	0.224	33.01	-9.52
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 108	20.03	24.03	0.253	33.01	-9.98
60 MHz	n/2 BPSK	2649.99	H	108	331	4.40	1 / 1	19.66	24.06	0.255	33.01	-9.95
	QPSK	2536.02	H	153	319	4.19	1 / 1	19.15	23.34	0.216	33.01	-9.67
	QPSK	2592.99	H	112	321	4.00	1 / 1	20.13	24.13	0.259	33.01	-9.89
	QPSK	2649.99	H	108	331	4.40	1 / 1	19.22	23.62	0.230	33.01	-9.39
	16-QAM	2536.02	H	153	319	4.19	1 / 1	17.49	21.68	0.147	33.01	-11.33
	16-QAM	2592.99	H	112	321	4.00	1 / 216	19.86	23.86	0.262	33.01	-9.85
	16-QAM	2649.99	H	108	331	4.40	1 / 1	17.29	22.45	0.172	33.01	-10.89
	n/2 BPSK	2531.01	H	153	319	4.19	1 / 1	19.15	23.33	0.215	33.01	-9.68
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 94	19.87	23.97	0.249	33.01	-9.04
	n/2 BPSK	2655.00	H	108	331	4.42	1 / 94	19.54	23.95	0.248	33.01	-9.69
40 MHz	QPSK	2531.01	H	153	319	4.19	1 / 1	18.96	23.13	0.209	33.01	-9.88
	QPSK	2592.99	H	112	321	4.00	1 / 167	20.13	24.13	0.259	33.01	-9.88
	QPSK	2655.00	H	108	331	4.42	1 / 94	19.03	23.44	0.221	33.01	-9.57
	16-QAM	2531.01	H	153	319	4.19	1 / 167	17.34	21.52	0.142	33.01	-11.49
	16-QAM	2592.99	H	112	321	4.00	1 / 167	19.09	23.09	0.204	33.01	-9.92
	16-QAM	2655.00	H	108	331	4.42	1 / 94	17.86	22.27	0.169	33.01	-10.74
	n/2 BPSK	2526.00	H	153	319	4.18	1 / 1	19.17	23.35	0.216	33.01	-9.66
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 1	19.99	23.99	0.251	33.01	-9.02
	n/2 BPSK	2659.98	H	108	331	4.43	1 / 1	19.54	23.97	0.250	33.01	-9.04
	QPSK	2526.00	H	153	319	4.18	1 / 1	19.57	23.15	0.207	33.01	-9.85
20 MHz	QPSK	2592.99	H	112	321	4.00	1 / 160	20.25	24.25	0.266	33.01	-9.76
	QPSK	2659.98	H	108	331	4.43	1 / 1	19.03	23.46	0.222	33.01	-9.55
	16-QAM	2526.00	H	153	319	4.18	1 / 1	17.29	21.46	0.140	33.01	-11.55
	16-QAM	2592.99	H	112	321	4.00	1 / 160	19.07	23.07	0.203	33.01	-9.94
	16-QAM	2659.98	H	108	331	4.43	1 / 1	17.70	22.13	0.163	33.01	-10.88
	n/2 BPSK	2521.02	H	153	319	4.18	1 / 1	19.24	23.42	0.220	33.01	-9.59
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 131	20.19	24.19	0.262	33.01	-9.83
	n/2 BPSK	2664.99	H	108	331	4.45	1 / 131	19.56	24.01	0.252	33.01	-9.00
	QPSK	2521.02	H	153	319	4.18	1 / 131	19.12	23.30	0.214	33.01	-9.71
	QPSK	2592.99	H	112	321	4.00	1 / 131	20.41	24.41	0.276	33.01	-9.60
15 MHz	QPSK	2664.99	H	108	331	4.45	1 / 131	19.31	23.31	0.231	33.01	-9.70
	16-QAM	2521.02	H	153	319	4.18	1 / 1	17.43	21.61	0.145	33.01	-11.40
	16-QAM	2592.99	H	112	321	4.00	1 / 131	19.31	23.31	0.214	33.01	-9.70
	16-QAM	2664.99	H	108	331	4.45	1 / 131	17.98	22.43	0.175	33.01	-10.58
	n/2 BPSK	2518.50	H	153	319	4.18	1 / 1	19.26	23.44	0.221	33.01	-9.57
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 1	20.03	24.03	0.253	33.01	-9.98
	n/2 BPSK	2667.50	H	108	331	4.47	1 / 1	19.49	23.95	0.248	33.01	-9.06
	QPSK	2518.50	H	153	319	4.18	1 / 1	19.04	23.22	0.210	33.01	-9.79
	QPSK	2592.99	H	112	321	4.00	1 / 1	20.15	24.15	0.262	33.01	-9.83
	QPSK	2667.50	H	108	331	4.47	1 / 1	19.02	23.48	0.223	33.01	-9.53
10 MHz	16-QAM	2518.50	H	153	319	4.18	1 / 1	17.46	21.64	0.146	33.01	-11.37
	16-QAM	2592.99	H	112	321	4.00	1 / 117	19.06	23.06	0.202	33.01	-9.95
	16-QAM	2667.50	H	108	331	4.47	1 / 1	17.80	22.26	0.168	33.01	-10.73
	n/2 BPSK	2516.01	H	153	319	4.18	1 / 1	19.10	23.27	0.212	33.01	-9.74
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 104	20.04	24.04	0.253	33.01	-9.97
	n/2 BPSK	2670.00	H	108	331	4.48	1 / 1	19.26	23.74	0.237	33.01	-9.27
	QPSK	2516.01	H	153	319	4.18	1 / 104	19.35	23.10	0.204	33.01	-9.91
	QPSK	2592.99	H	112	321	4.00	1 / 104	20.20	24.20	0.263	33.01	-9.81
	QPSK	2670.00	H	108	331	4.48	1 / 1	18.81	23.29	0.213	33.01	-9.72
	16-QAM	2516.01	H	153	319	4.18	1 / 104	17.43	21.60	0.145	33.01	-11.41
7.5 MHz	16-QAM	2592.99	H	112	321	4.00	1 / 104	19.03	23.03	0.201	33.01	-9.98
	16-QAM	2670.00	H	108	331	4.48	1 / 104	17.80	22.08	0.162	33.01	-10.93
	n/2 BPSK	2513.50	H	153	319	4.18	1 / 1	19.34	23.51	0.225	33.01	-9.50
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 1	20.07	24.07	0.255	33.01	-9.94
	n/2 BPSK	2672.50	H	108	331	4.50	1 / 1	19.39	23.89	0.245	33.01	-9.12
	QPSK	2513.50	H	153	319	4.18	1 / 1	19.04	23.21	0.210	33.01	-9.80
	QPSK	2592.99	H	112	321	4.00	1 / 1	20.22	24.22	0.264	33.01	-9.79
	QPSK	2672.50	H	108	331	4.50	1 / 1	18.94	23.44	0.221	33.01	-9.57
	16-QAM	2513.50	H	153	319	4.18	1 / 1	17.68	21.85	0.153	33.01	-11.17
	16-QAM	2592.99	H	112	321	4.00	1 / 1	19.02	23.02	0.200	33.01	-9.99
5 MHz	16-QAM	2672.50	H	108	331	4.50	1 / 1	17.65	22.15	0.164	33.01	-10.86
	n/2 BPSK	2511.00	H	153	319	4.18	1 / 1	19.44	23.61	0.230	33.01	-9.40
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 1	20.29	24.29	0.268	33.01	-9.72
	n/2 BPSK	2674.98	H	108	331	4.50	1 / 1	19.70	24.20	0.263	33.01	-9.81
	QPSK	2511.00	H	153	319	4.18	1 / 1	19.26	23.43	0.220	33.01	-9.58
	QPSK	2592.99	H	112	321	4.00	1 / 1	20.36	24.36	0.273	33.01	-9.65
	QPSK	2674.98	H	108	331	4.50	1 / 1	19.65	23.65	0.227	33.01	-9.46
	16-QAM	2511.00	H	153	319	4.18	1 / 76	17.75	21.87	0.154	33.01	-11.14
	16-QAM	2592.99	H	112	321	4.00	1 / 1	19.20	23.20	0.209	33.01	-9.81
	16-QAM	2674.98	H	108	331	4.50	1 / 1	17.87	22.47	0.177	33.01	-10.54
2.5 MHz	n/2 BPSK	2508.50	H	153	319	4.18	1 / 1	19.34	23.51	0.225	33.01	-9.50
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 1	20.21	24.21	0.276	33.01	-9.60
	n/2 BPSK	2679.99	H	108	331	4.50	1 / 1	20.21	24.27	0.267	33.01	-9.74
	n/2 BPSK	2677.50	H	108	331	4.50	1 / 1	19.48	23.98	0.250	33.01	-9.03
	QPSK	2508.50	H	153	319	4.18	1 / 1	19.20	23.37	0.217	33.01	-9.64
	QPSK	2592.99	H	112	321	4.00	1 / 1	20.41	24.41	0.278	33.01	-9.60
	QPSK	2677.50	H	108	331	4.50	1 / 1	17.84	22.34	0.172	33.01	-10.61
	16-QAM	2508.50	H	153	319	4.18	1 / 32	17.63	21.80	0.151	33.01	-11.21
	16-QAM	2592.99	H	112	321	4.00	1 / 1	19.16	23.16	0.207	33.01	-9.85
	16-QAM	2677.50	H	108	331	4.50	1 / 1	18.05	22.55	0.180	33.01	-10.46
1 MHz	n/2 BPSK	2506.02	H	153	319	4.18	1 / 25	19.43	23.63	0.228	33.01	-9.28
	n/2 BPSK	2592.99	H	112	321	4.00	1 / 25	19.15	23.45	0.220	33.01	-9.86
	n/2 BPSK											

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit	Margin [dB]
100 MHz	11/2 BPSK	2546.01	H	111	165	4.19	1 / 136	19.38	23.57	0.228	33.01	-9.44
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 136	20.45	24.45	0.279	33.01	-8.56
	11/2 BPSK	2640.00	H	162	159	4.31	1 / 1	19.53	23.84	0.242	33.01	-9.17
	QPSK	2546.01	H	111	165	4.19	1 / 136	19.24	23.43	0.220	33.01	-9.58
	QPSK	2592.99	H	140	161	4.00	1 / 136	19.93	23.93	0.247	33.01	-9.08
	QPSK	2640.00	H	162	159	4.31	1 / 1	19.57	23.88	0.244	33.01	-9.13
	16-QAM	2592.99	H	140	161	4.00	1 / 271	19.38	23.38	0.218	33.01	-9.63
	11/2 BPSK	2541.00	H	111	165	4.19	1 / 1	19.74	23.93	0.247	33.01	-9.08
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 243	20.18	24.18	0.262	33.01	-8.83
	11/2 BPSK	2644.98	H	162	159	4.36	1 / 1	19.80	24.15	0.260	33.01	-8.86
90 MHz	QPSK	2541.00	H	111	165	4.19	1 / 1	19.31	23.50	0.224	33.01	-9.51
	QPSK	2592.99	H	140	161	4.00	1 / 1	20.05	24.05	0.254	33.01	-8.96
	QPSK	2644.98	H	162	159	4.36	1 / 1	19.71	24.06	0.255	33.01	-8.95
	16-QAM	2592.99	H	140	161	4.00	1 / 122	19.37	23.37	0.217	33.01	-9.64
	11/2 BPSK	2536.02	H	111	165	4.19	1 / 1	19.68	23.87	0.244	33.01	-9.14
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 215	20.12	24.12	0.258	33.01	-8.89
	11/2 BPSK	2649.99	H	162	159	4.40	1 / 1	19.75	24.15	0.260	33.01	-8.86
	QPSK	2536.02	H	111	165	4.19	1 / 1	19.28	23.47	0.222	33.01	-9.54
	QPSK	2592.99	H	140	161	4.00	1 / 215	19.95	23.95	0.248	33.01	-9.06
	QPSK	2649.99	H	162	159	4.40	1 / 1	19.67	24.07	0.255	33.01	-8.94
80 MHz	16-QAM	2592.99	H	140	161	4.00	1 / 1	19.40	23.40	0.219	33.01	-9.61
	11/2 BPSK	2531.01	H	111	165	4.18	1 / 187	19.57	23.75	0.237	33.01	-9.22
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 187	20.29	24.29	0.268	33.01	-8.72
	11/2 BPSK	2655.00	H	162	159	4.42	1 / 1	19.68	24.09	0.257	33.01	-8.92
	QPSK	2531.01	H	111	165	4.18	1 / 187	19.24	23.42	0.220	33.01	-9.59
	QPSK	2592.99	H	140	161	4.00	1 / 187	20.13	24.13	0.259	33.01	-8.88
	QPSK	2655.00	H	162	159	4.42	1 / 1	19.59	24.00	0.251	33.01	-9.01
	16-QAM	2592.99	H	140	161	4.00	1 / 187	19.51	23.51	0.224	33.01	-9.50
	11/2 BPSK	2526.00	H	111	165	4.18	1 / 1	19.55	23.73	0.236	33.01	-9.28
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 160	20.28	24.28	0.268	33.01	-8.73
60 MHz	11/2 BPSK	2659.98	H	162	159	4.43	1 / 1	19.63	24.06	0.255	33.01	-8.95
	QPSK	2526.00	H	111	165	4.18	1 / 1	19.26	23.44	0.221	33.01	-9.57
	QPSK	2592.99	H	140	161	4.00	1 / 160	20.17	24.17	0.261	33.01	-8.84
	QPSK	2659.98	H	162	159	4.43	1 / 1	19.67	24.10	0.257	33.01	-8.91
	16-QAM	2592.99	H	140	161	4.00	1 / 160	19.42	23.42	0.220	33.01	-9.59
	11/2 BPSK	2521.02	H	111	165	4.18	1 / 131	19.73	23.91	0.246	33.01	-9.10
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 131	20.40	24.40	0.275	33.01	-8.61
	11/2 BPSK	2664.99	H	162	159	4.45	1 / 1	19.49	23.94	0.248	33.01	-9.07
	QPSK	2521.02	H	111	165	4.18	1 / 131	19.32	23.50	0.224	33.01	-9.51
	QPSK	2592.99	H	140	161	4.00	1 / 131	20.22	24.22	0.264	33.01	-8.79
50 MHz	QPSK	2664.99	H	162	159	4.45	1 / 1	19.43	23.88	0.244	33.01	-9.13
	16-QAM	2592.99	H	140	161	4.00	1 / 131	19.67	23.67	0.233	33.01	-9.34
	11/2 BPSK	2518.50	H	111	165	4.18	1 / 1	19.65	23.83	0.242	33.01	-9.18
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 117	20.18	24.18	0.262	33.01	-8.83
	11/2 BPSK	2667.50	H	162	159	4.47	1 / 1	19.55	24.01	0.252	33.01	-9.00
	QPSK	2518.50	H	111	165	4.18	1 / 1	19.26	23.44	0.221	33.01	-9.57
	QPSK	2592.99	H	140	161	4.00	1 / 117	20.01	24.01	0.252	33.01	-9.00
	QPSK	2667.50	H	162	159	4.47	1 / 1	19.44	23.90	0.246	33.01	-9.11
	16-QAM	2592.99	H	140	161	4.00	1 / 117	19.30	23.30	0.214	33.01	-9.71
	11/2 BPSK	2516.01	H	111	165	4.18	1 / 1	19.54	23.71	0.235	33.01	-9.30
40 MHz	11/2 BPSK	2592.99	H	140	161	4.00	1 / 104	20.16	24.16	0.261	33.01	-8.85
	11/2 BPSK	2670.00	H	162	159	4.48	1 / 1	19.30	23.78	0.239	33.01	-9.23
	QPSK	2516.01	H	111	165	4.18	1 / 1	19.15	23.32	0.215	33.01	-9.69
	QPSK	2592.99	H	140	161	4.00	1 / 104	20.14	24.14	0.259	33.01	-8.87
	QPSK	2670.00	H	162	159	4.48	1 / 1	19.14	23.62	0.230	33.01	-9.39
	16-QAM	2592.99	H	140	161	4.00	1 / 104	19.26	23.26	0.212	33.01	-9.75
	11/2 BPSK	2513.50	H	111	165	4.17	1 / 1	19.65	23.82	0.241	33.01	-9.19
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 1	20.16	24.16	0.261	33.01	-8.85
	11/2 BPSK	2672.50	H	162	159	4.50	1 / 1	19.38	23.88	0.244	33.01	-9.13
	QPSK	2513.50	H	111	165	4.17	1 / 1	19.24	23.41	0.219	33.01	-9.60
35 MHz	QPSK	2592.99	H	140	161	4.00	1 / 1	19.89	23.89	0.245	33.01	-9.12
	QPSK	2672.50	H	162	159	4.50	1 / 1	19.36	23.86	0.243	33.01	-9.15
	16-QAM	2592.99	H	140	161	4.00	1 / 90	19.07	23.07	0.203	33.01	-9.94
	11/2 BPSK	2511.00	H	111	165	4.17	1 / 1	19.84	24.01	0.252	33.01	-9.00
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 1	20.39	24.39	0.275	33.01	-8.62
	11/2 BPSK	2674.98	H	162	159	4.50	1 / 1	19.60	24.10	0.257	33.01	-8.91
	QPSK	2511.00	H	111	165	4.17	1 / 1	19.52	23.69	0.234	33.01	-9.32
	QPSK	2592.99	H	140	161	4.00	1 / 1	20.03	24.03	0.253	33.01	-8.98
	QPSK	2674.98	H	162	159	4.50	1 / 1	19.33	23.83	0.242	33.01	-9.18
	16-QAM	2674.98	H	162	159	4.50	1 / 1	18.87	23.36	0.217	33.01	-9.65
25 MHz	11/2 BPSK	2508.50	H	111	165	4.17	1 / 1	19.80	23.97	0.250	33.01	-9.04
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 1	20.35	24.35	0.272	33.01	-8.66
	11/2 BPSK	2677.50	H	162	159	4.50	1 / 1	19.56	24.06	0.255	33.01	-8.95
	QPSK	2508.50	H	111	165	4.17	1 / 1	19.29	23.46	0.222	33.01	-9.55
	QPSK	2592.99	H	140	161	4.00	1 / 1	20.12	24.12	0.258	33.01	-8.89
	QPSK	2677.50	H	162	159	4.50	1 / 1	19.37	23.87	0.244	33.01	-9.14
	16-QAM	2592.99	H	140	161	4.00	1 / 1	19.34	23.34	0.216	33.01	-9.67
	11/2 BPSK	2506.02	H	111	165	4.17	1 / 25	19.68	23.85	0.243	33.01	-9.16
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 25	20.32	24.32	0.270	33.01	-8.69
	11/2 BPSK	2679.99	H	162	159	4.50	1 / 25	19.54	24.04	0.254	33.01	-8.97
20 MHz	QPSK	2506.02	H	111	165	4.17	1 / 25	19.31	23.48	0.223	33.01	-9.53
	QPSK	2592.99	H	140	161	4.00	1 / 25	20.26	24.26	0.267	33.01	-8.75
	QPSK	2679.99	H	162	159	4.50	1 / 25	19.44	23.94	0.248	33.01	-9.07
	16-QAM	2592.99	H	140	161	4.00	1 / 1	19.40	23.40	0.219	33.01	-9.61
	11/2 BPSK	2503.50	H	111	165	4.17	1 / 36	19.69	23.86	0.243	33.01	-9.15
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 36	20.40	24.40	0.275	33.01	-8.61
	11/2 BPSK	2682.50	H	162	159	4.50	1 / 36	19.52	24.02	0.253	33.01	-8.99
	QPSK	2503.50	H	111	165	4.17	1 / 36	19.42	23.59	0.229	33.01	-9.42
	QPSK	2592.99	H	140	161	4.00	1 / 36	19.95	23.95	0.248	33.01	-9.06
	QPSK	2682.50	H	162	159	4.50	1 / 36	19.26	23.76	0.238	33.01	-9.25
15 MHz	16-QAM	2592.99	H	140	161	4.00	1 / 36	19.46	23.46	0.222	33.01	-9.55
	11/2 BPSK	2501.00	H	111	165	4.17	1 / 22	19.72	23.89	0.245	33.01	-9.12
	11/2 BPSK	2592.99	H	140	161	4.00	1 / 22	20.29	24.29	0.268	33.01	-8.72
	11/2 BPSK	2685.00	H	162	159	4.50	1 / 22	19.44	23.94	0.248	33.01	-9.07
	QPSK	2501.00	H	111	165	4.17	1 / 12	19.30	23.47	0.222	33.01	-9.54
	QPSK	2592.99	H	140	161	4.00	1 / 12	20.14	24.14	0.259	33.01	-8.87
	QPSK	2685.00	H	162	159	4.50	1 / 22	19.52	24.02	0.253	33.01	-8.99
	16-QAM	2592.99	H	140	161	4.00	1 / 12	19.48	23.48	0.223	33.01	-9.53
	QPSK (CP-OFDM)	2592.99	H	166	161	4.00	1 / 136	18.93	22.93	0.196	33.01	-10.08
	QPSK (Opposite Pol.)	2592.99	V									

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	159	145	4.17	1 / 50	18.01	22.18	0.165	33.01	-10.83
	QPSK	2593.0	H	112	149	4.00	1 / 99	19.11	23.11	0.205	33.01	-9.90
	QPSK	2680.0	H	140	131	4.50	1 / 50	18.81	23.31	0.214	33.01	-9.70
	16-QAM	2506.0	H	159	145	4.17	1 / 50	16.87	21.04	0.127	33.01	-11.97
	16-QAM	2593.0	H	112	149	4.00	1 / 99	18.29	22.29	0.169	33.01	-10.72
15 MHz	16-QAM	2680.0	H	140	131	4.50	1 / 50	17.86	22.36	0.172	33.01	-10.65
	QPSK	2503.5	H	159	145	4.17	1 / 0	17.99	22.16	0.165	33.01	-10.85
	QPSK	2593.0	H	112	149	4.00	1 / 0	18.99	22.99	0.199	33.01	-10.02
	QPSK	2682.5	H	140	131	4.51	1 / 0	18.60	23.11	0.205	33.01	-9.90
10 MHz	16-QAM	2682.5	H	140	131	4.51	1 / 0	17.87	22.38	0.173	33.01	-10.63
	QPSK	2501.0	H	159	145	4.17	1 / 25	18.02	22.19	0.166	33.01	-10.82
	QPSK	2593.0	H	112	149	4.00	1 / 25	18.99	22.99	0.199	33.01	-10.02
	QPSK	2685.0	H	140	131	4.52	1 / 0	18.73	23.25	0.211	33.01	-9.76
5 MHz	16-QAM	2593.0	H	112	149	4.00	1 / 25	18.35	22.35	0.172	33.01	-10.66
	QPSK	2498.5	H	159	145	4.16	1 / 24	18.01	22.17	0.165	33.01	-10.84
	QPSK	2593.0	H	112	149	4.00	1 / 12	19.02	23.02	0.200	33.01	-9.99
	QPSK	2687.5	H	140	131	4.53	1 / 24	18.63	23.16	0.207	33.01	-9.85
20 MHz	16-QAM	2593.0	H	112	149	4.00	1 / 12	18.41	22.41	0.174	33.01	-10.60
	Opposite Pol.	2680.0	V	112	276	5.10	1 / 50	15.69	20.79	0.120	33.01	-12.22
	WCP	2680.0	H	143	196	4.50	1 / 99	16.18	20.68	0.117	33.01	-12.33

Table 7-20. EIRP Data (LTE Band 41(PC3)) – Ant2

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 104 of 120

7.7 Radiated Spurious Emissions Measurements

Test Overview

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

Test Procedures Used

ANSI C63.26:2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 105 of 120

Test Setup

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

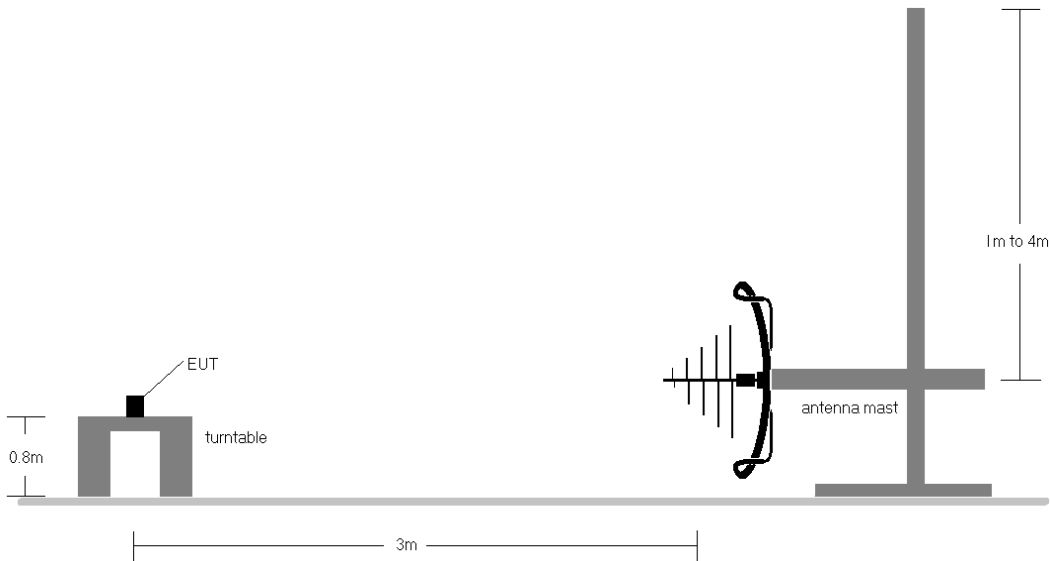


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

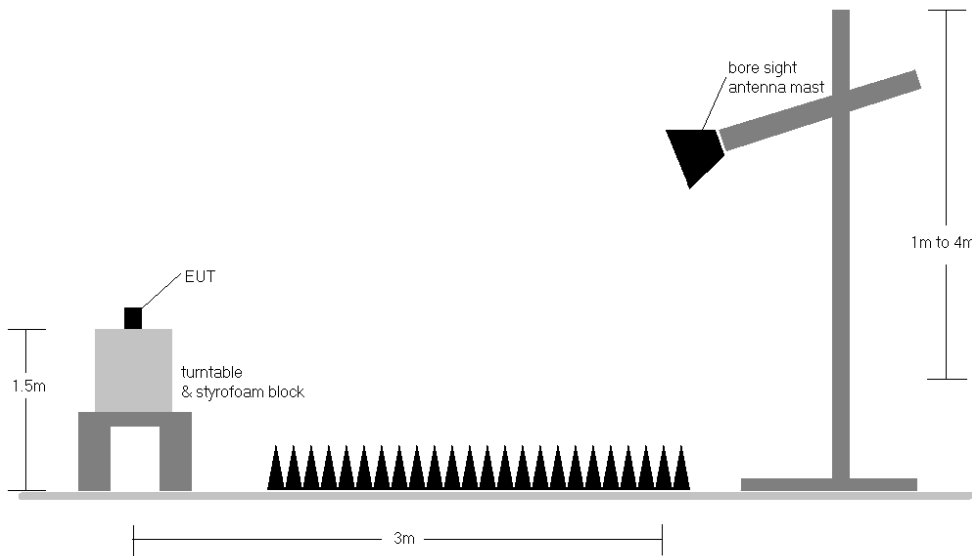


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

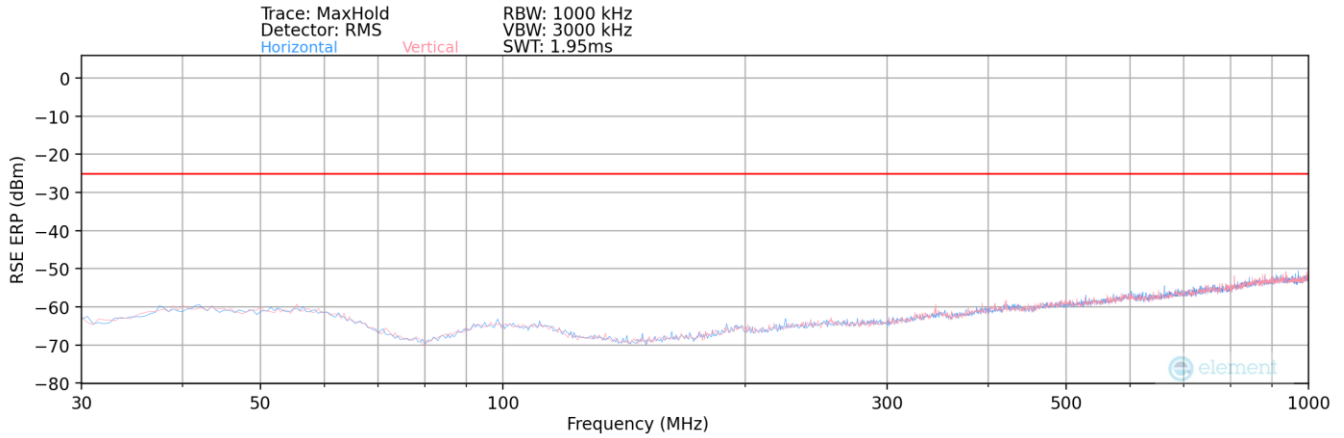
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 106 of 120

Test Notes

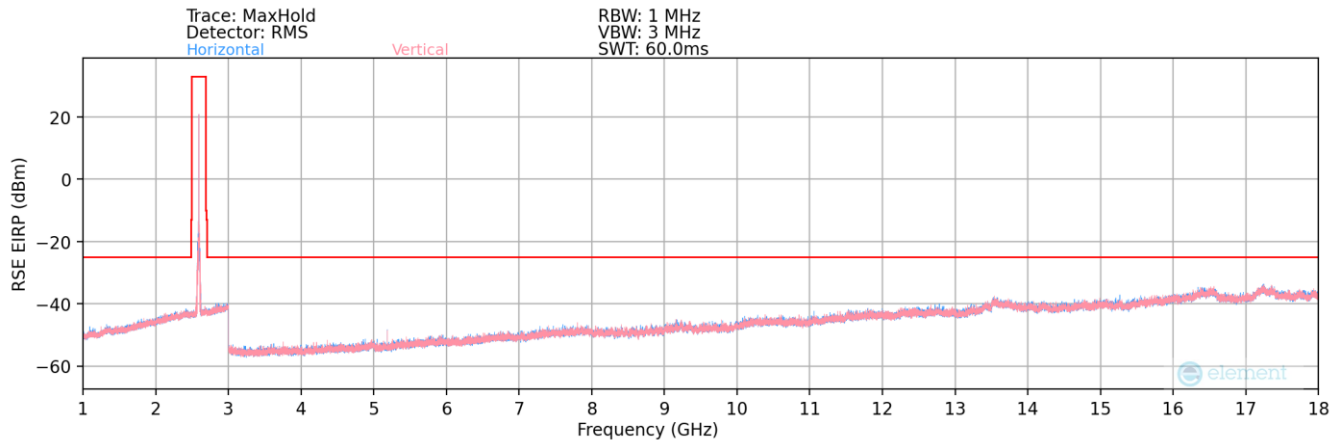
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26:2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.
- 9) Only the highest target power SRS-1 antenna for n41 default (Antenna F) and n41 switching (Antenna B) are reported for the overall n41 SRS worst case.

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 107 of 120

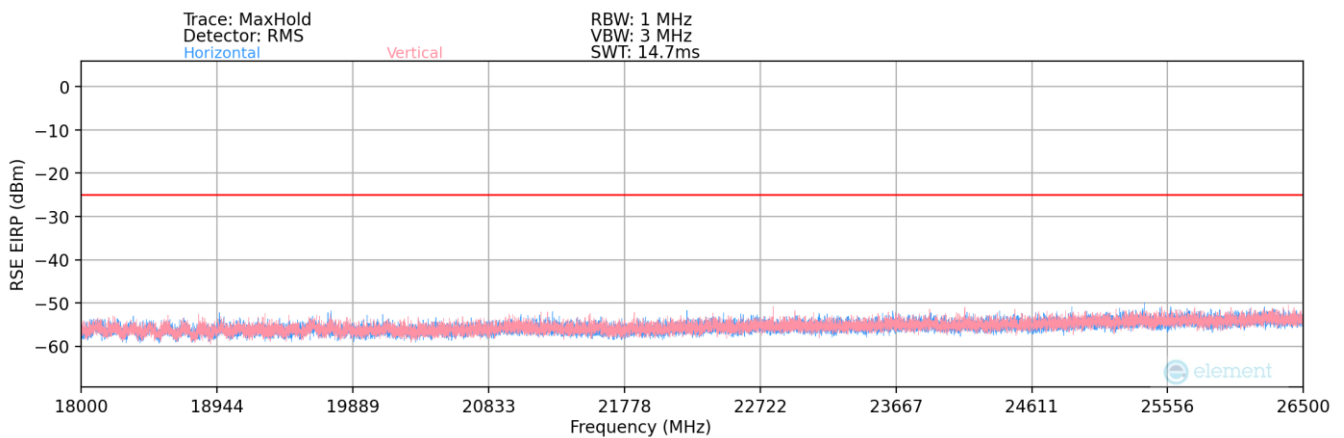
LTE Band 41(PC2) – Ant1



Plot 7-121. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant1



Plot 7-122. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant1



Plot 7-123. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 108 of 120

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
330.00	V	369	10	-65.89	-10.00	31.11	-66.29	-25.00	-41.29
800.00	V	283	352	-67.49	-1.86	37.65	-59.76	-25.00	-34.76

Table 7-21. Radiated Spurious Data (LTE Band 41(PC2)) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	V	156	204	-68.59	10.12	48.53	-46.73	-25.00	-21.73
7530.00	V	114	197	-63.46	15.55	59.09	-36.17	-25.00	-11.17
10040.00	V	-	-	-71.22	18.98	54.76	-40.50	-25.00	-15.50
12550.00	V	-	-	-71.85	23.53	58.68	-36.58	-25.00	-11.58
15060.00	V	-	-	-72.83	26.63	60.80	-34.45	-25.00	-9.45

Table 7-22. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	258	204	-64.52	10.38	52.86	-42.40	-25.00	-17.40
7779.00	V	356	151	-68.37	15.44	54.07	-41.18	-25.00	-16.18
10372.00	V	-	-	-70.80	19.53	55.73	-39.53	-25.00	-14.53
12965.00	V	-	-	-72.23	24.45	59.22	-36.04	-25.00	-11.04
15558.00	V	-	-	-73.29	28.35	62.06	-33.20	-25.00	-8.20

Table 7-23. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel) – Ant1

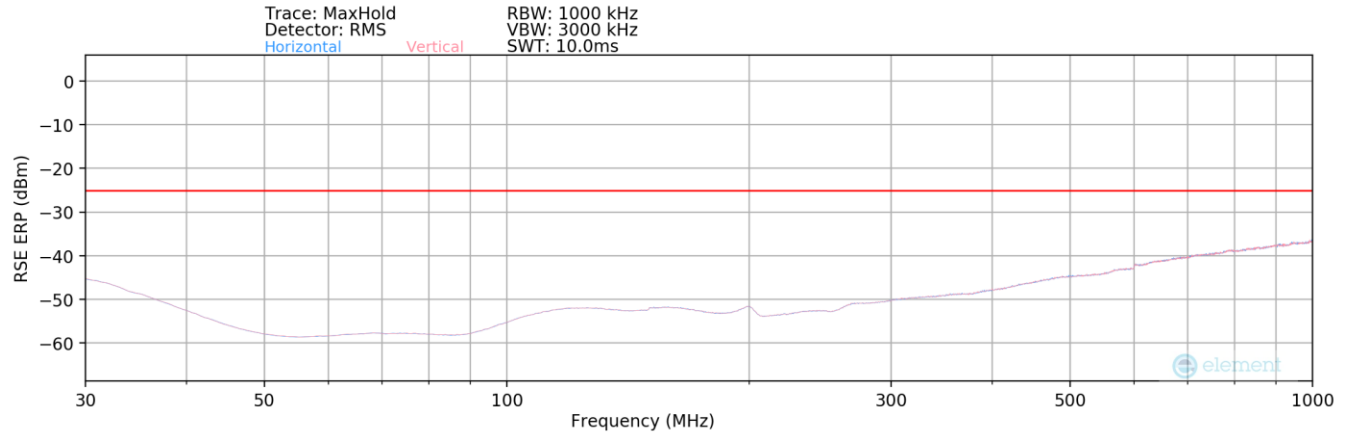
Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	123	338	-67.29	10.79	50.50	-44.76	-25.00	-19.76
8040.00	V	149	234	-69.97	16.08	53.11	-42.15	-25.00	-17.15
10720.00	V	-	-	-72.02	20.23	55.21	-40.04	-25.00	-15.04
13400.00	V	-	-	-72.48	24.88	59.40	-35.85	-25.00	-10.85
16080.00	V	-	-	-72.59	28.30	62.71	-32.55	-25.00	-7.55

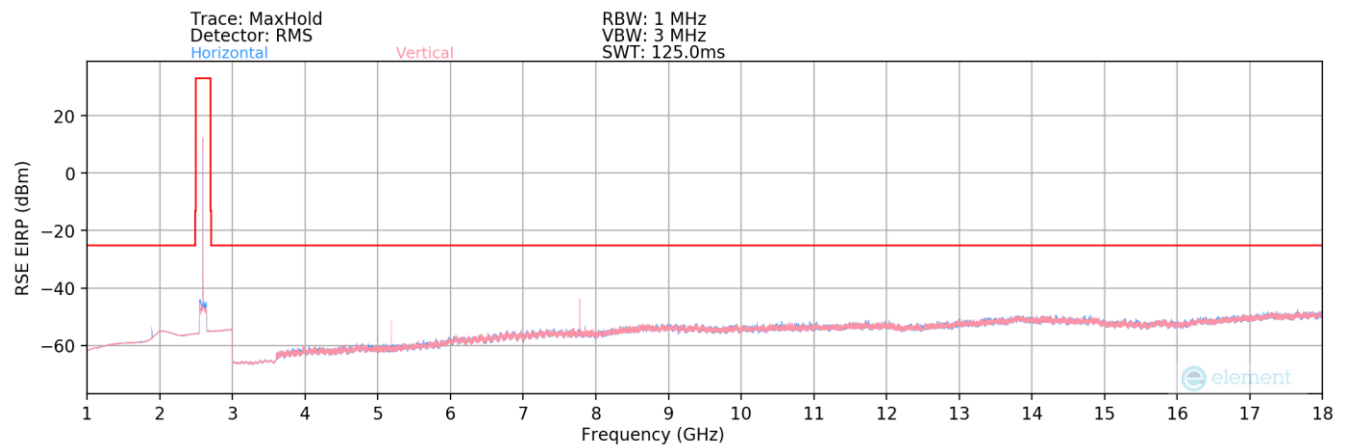
Table 7-24. Radiated Spurious Data (LTE Band 41(PC2) – High Channel) – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 109 of 120

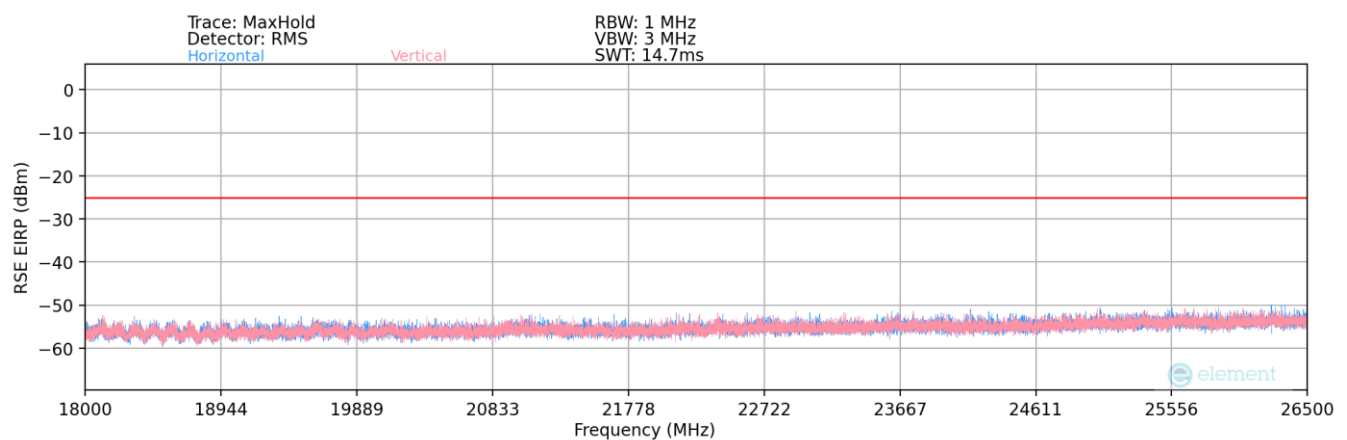
NR Band n41(PC2) – Default – Ant1



Plot 7-124. Radiated Spurious Plot (NR Band n41(PC2) – Default – Ant1



Plot 7-125. Radiated Spurious Plot (NR Band n41(PC2) – Default – Ant1



Plot 7-126. Radiated Spurious Plot NR Band n41(PC2) – Default – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 110 of 120

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
684.00	H	-	-	-90.48	28.59	45.11	-52.30	-25.00	-27.30

Table 7-25. Radiated Spurious Data (NR Band n41(PC2) – Default – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	H	368	238	-65.34	3.17	44.83	-50.43	-25.00	-25.43
7638.03	H	296	200	-57.09	9.72	59.63	-35.63	-25.00	-10.63
10184.04	H	-	-	-78.00	12.49	41.49	-53.77	-25.00	-28.77
12730.05	H	-	-	-78.42	13.59	42.17	-53.08	-25.00	-28.08
15276.06	H	-	-	-81.52	14.37	39.85	-55.41	-25.00	-30.41

Table 7-26. Radiated Spurious Data (NR Band n41(PC2) – Low Channel) – Default – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	H	334	231	-64.91	3.36	45.45	-49.80	-25.00	-24.80
7778.97	H	255	204	-59.00	8.63	56.63	-38.63	-25.00	-13.63
10371.96	H	-	-	-77.99	12.21	41.22	-54.03	-25.00	-29.03
12964.95	H	-	-	-78.58	14.39	42.81	-52.45	-25.00	-27.45
15557.94	H	-	-	-78.27	13.63	42.36	-52.90	-25.00	-27.90

Table 7-27. Radiated Spurious Data (NR Band n41(PC2) – Mid Channel) – Default – Ant1

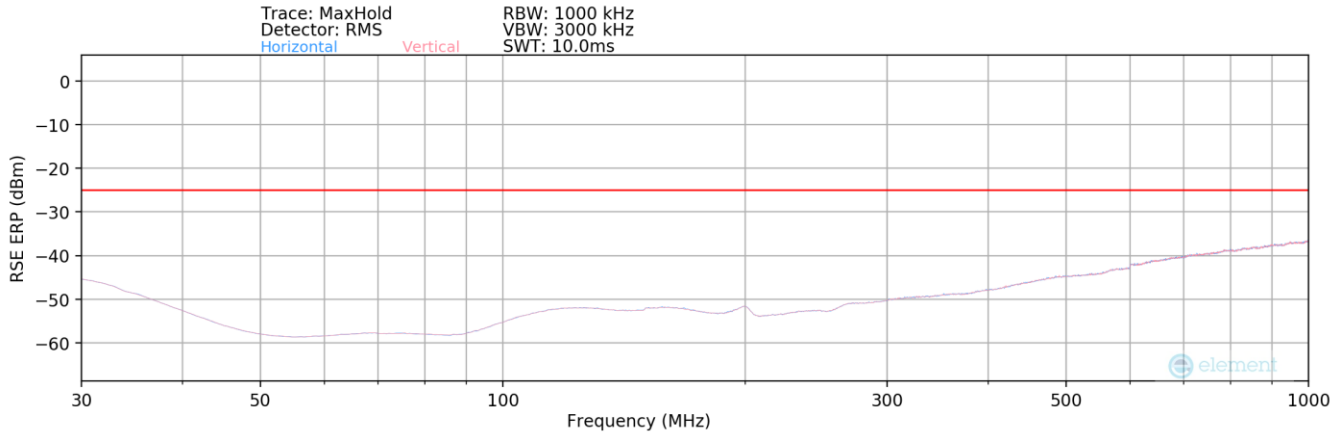
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	371	231	-70.21	3.28	40.07	-55.19	-25.00	-30.19
7920.00	H	134	17	-71.17	9.67	45.50	-49.76	-25.00	-24.76
10560.00	H	-	-	-78.33	12.67	41.34	-53.91	-25.00	-28.91
13200.00	H	-	-	-78.54	14.94	43.40	-51.86	-25.00	-26.86
15840.00	H	-	-	-78.85	14.75	42.90	-52.36	-25.00	-27.36

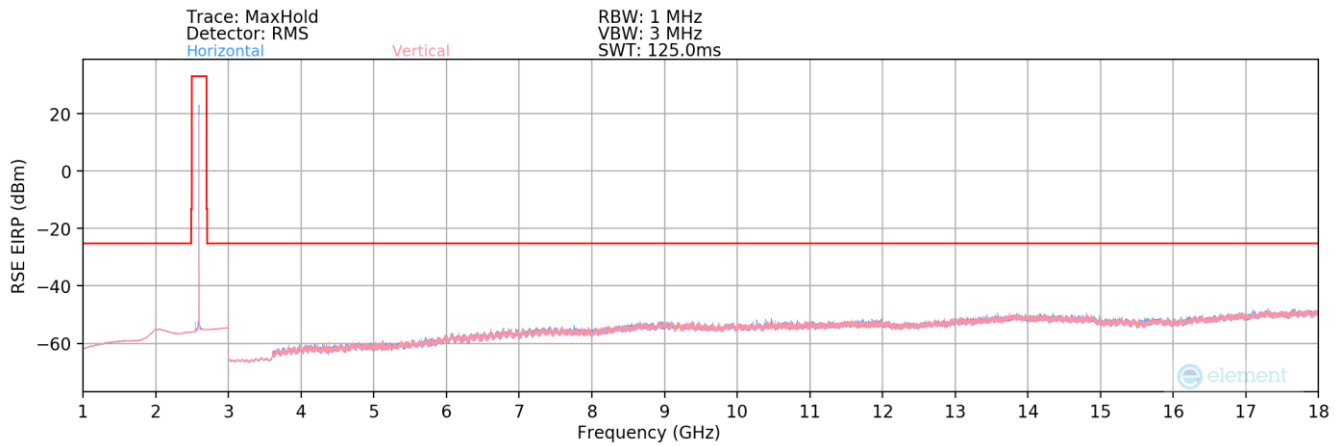
Table 7-28. Radiated Spurious Data (NR Band n41(PC2) – High Channel) – Default – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 111 of 120

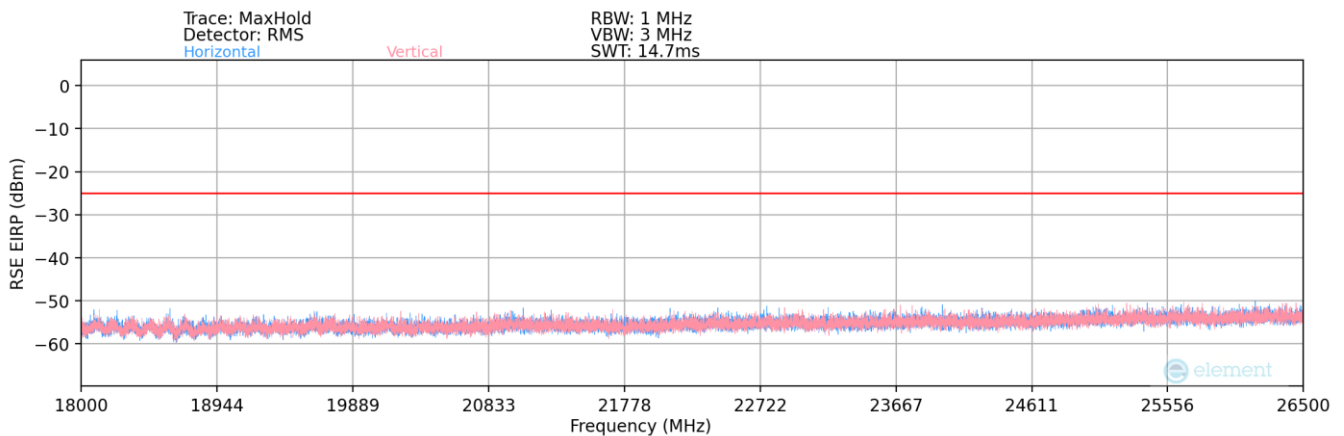
NR Band n41(PC2) – Switch – Ant1



Plot 7-127. Radiated Spurious Plot (NR Band n41(PC2) – Switch – Ant1)



Plot 7-128. Radiated Spurious Plot (NR Band n41(PC2) – Switch – Ant1)



Plot 7-129. Radiated Spurious Plot NR Band n41(PC2) – Switch – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 112 of 120

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
520.00	V	-	-	-85.79	26.09	47.30	-50.11	-25.00	-25.11
650.00	V	-	-	-85.39	28.08	49.69	-47.71	-25.00	-22.71
730.00	V	-	-	-86.10	29.20	50.10	-47.30	-25.00	-22.30

Table 7-29. Radiated Spurious Data (NR Band n41(PC2) – Switch – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	V	379	162	-73.73	3.17	36.44	-58.82	-25.00	-33.82
7638.03	V	282	34	-75.13	9.72	41.59	-53.67	-25.00	-28.67
10184.04	V	-	-	-78.15	12.49	41.34	-53.92	-25.00	-28.92
12730.05	V	-	-	-78.91	13.59	41.68	-53.57	-25.00	-28.57
15276.06	V	-	-	-78.98	14.37	42.39	-52.87	-25.00	-27.87

Table 7-30. Radiated Spurious Data (NR Band n41(PC2) – Low Channel) – Switch – Ant1

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	V	327	27	-74.53	3.36	35.83	-59.42	-25.00	-34.42
7778.97	V	-	-	-75.56	8.63	40.07	-55.19	-25.00	-30.19
10371.96	V	-	-	-78.42	12.21	40.79	-54.46	-25.00	-29.46
12964.95	V	-	-	-78.82	14.39	42.57	-52.69	-25.00	-27.69

Table 7-31. Radiated Spurious Data (NR Band n41(PC2) – Mid Channel) – Switch – Ant1

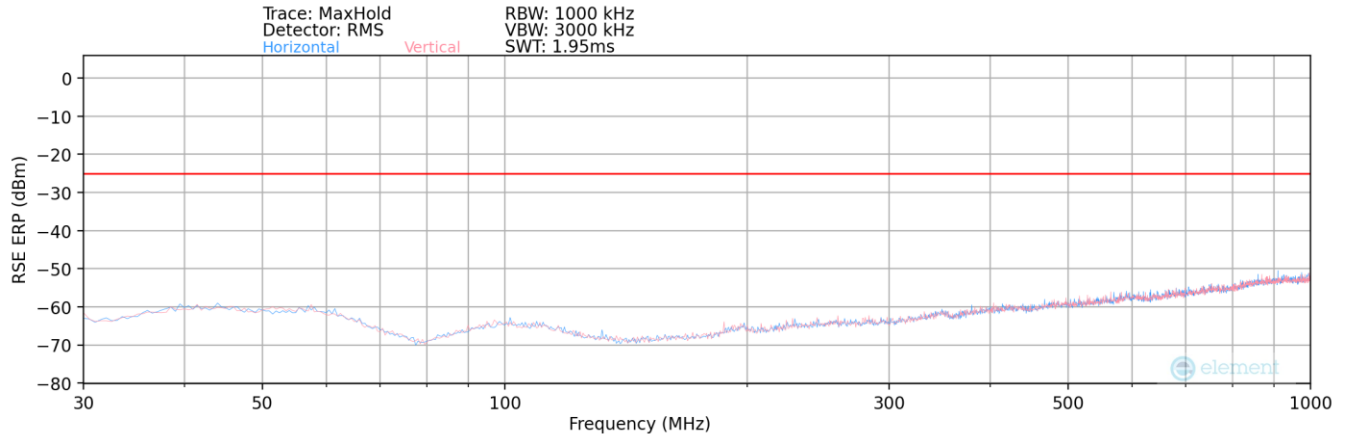
Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	V	-	-	-74.63	3.28	35.65	-59.61	-25.00	-34.61
7920.00	V	266	155	-74.35	9.67	42.32	-52.94	-25.00	-27.94
10560.00	V	226	21	-74.57	12.67	45.10	-50.15	-25.00	-25.15
13200.00	V	-	-	-79.26	14.94	42.68	-52.58	-25.00	-27.58
15840.00	V	-	-	-79.60	14.75	42.15	-53.11	-25.00	-28.11

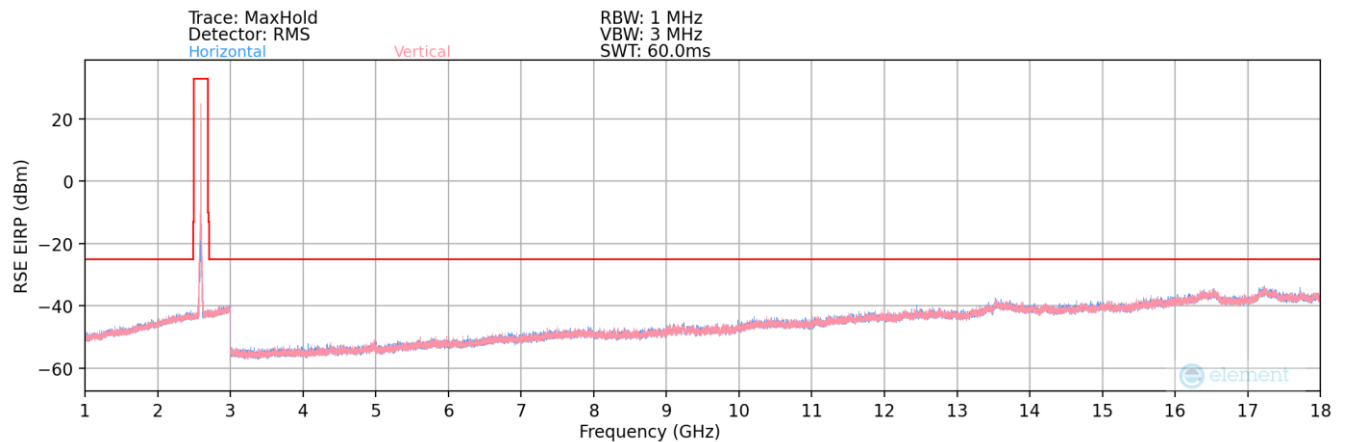
Table 7-32. Radiated Spurious Data (NR Band n41(PC2) – High Channel) – Switch – Ant1

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 113 of 120

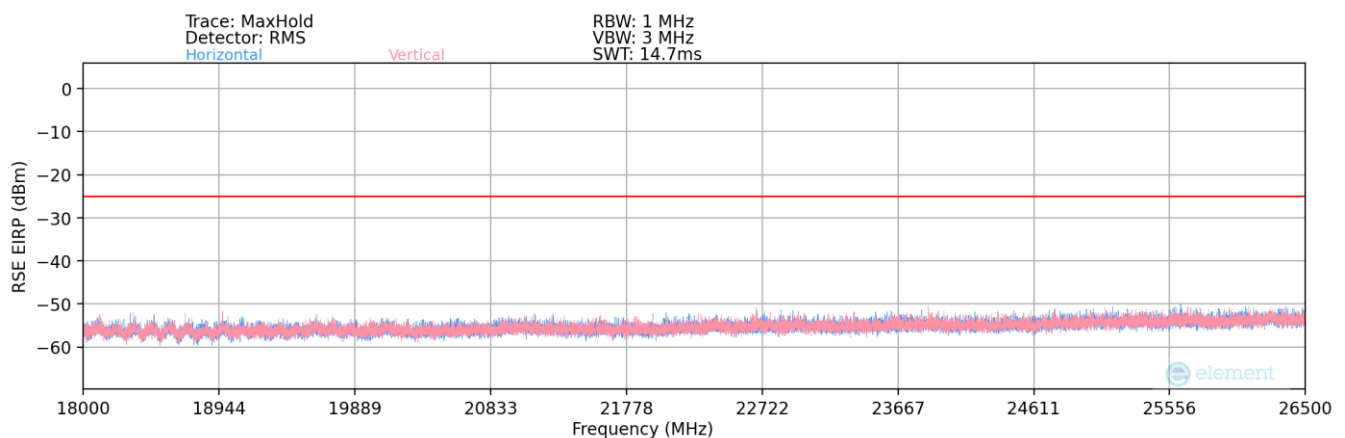
LTE Band 41(PC2) – Ant2



Plot 7-130. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant2



Plot 7-131. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant2



Plot 7-132. Radiated Spurious Plot (LTE Band 41(PC2)) – Ant2

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 114 of 120

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
360.00	H	262	218	-75.62	-9.90	21.48	-75.93	-25.00	-50.93
600.00	H	296	321	-78.93	-4.29	23.78	-73.63	-25.00	-48.63

Table 7-33. Radiated Spurious Data (LTE Band 41(PC2)) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	H	278	88	-70.65	9.93	46.28	-48.98	-25.00	-23.98
7530.00	H	-	-	-72.04	15.50	50.46	-44.80	-25.00	-19.80
10040.00	H	-	-	-72.71	18.84	53.13	-42.13	-25.00	-17.13
12550.00	H	-	-	-73.80	23.35	56.55	-38.71	-25.00	-13.71

Table 7-34. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	194	59	-69.91	10.38	47.47	-47.79	-25.00	-22.79
7779.00	H	228	48	-69.87	15.44	52.57	-42.68	-25.00	-17.68
10372.00	H	-	-	-71.16	19.53	55.37	-39.89	-25.00	-14.89
12965.00	H	-	-	-71.86	24.45	59.59	-35.67	-25.00	-10.67
15558.00	H	-	-	-72.32	28.35	63.03	-32.23	-25.00	-7.23

Table 7-35. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	H	274	66	-69.45	10.79	48.34	-46.92	-25.00	-21.92
8040.00	H	211	344	-71.60	16.08	51.48	-43.78	-25.00	-18.78
10720.00	H	173	81	-69.80	20.23	57.43	-37.82	-25.00	-12.82
13400.00	H	-	-	-74.05	24.88	57.83	-37.42	-25.00	-12.42
16080.00	H	-	-	-74.63	28.30	60.67	-34.59	-25.00	-9.59
18760.00	H	-	-	-50.32	1.15	57.82	-37.44	-25.00	-12.44

Table 7-36. Radiated Spurious Data (LTE Band 41(PC2) – High Channel) – Ant2

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 115 of 120

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26:2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26:2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

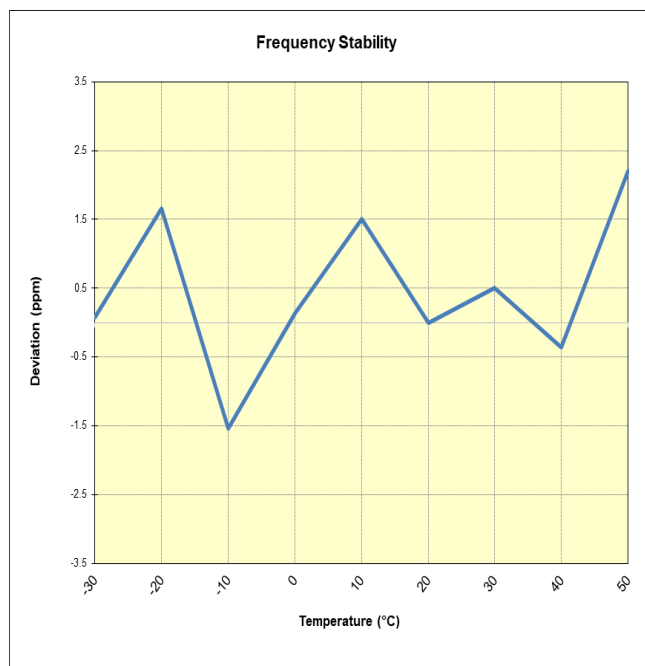
FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 116 of 120

LTE Band 41

Operating Frequency (Hz):		2,593,000,000			
Ref. Voltage (VDC):		4.464			

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.464	- 30	2,593,096,715	197	0.0000076
		- 20	2,593,100,830	4,312	0.0001663
		- 10	2,593,092,546	-3,972	-0.0001532
		0	2,593,096,868	350	0.0000135
		+ 10	2,593,100,436	3,918	0.0001511
		+ 20 (Ref)	2,593,096,518	0	0.0000000
		+ 30	2,593,097,812	1,294	0.0000499
		+ 40	2,593,095,603	-915	-0.0000353
		+ 50	2,593,102,248	5,730	0.0002210
Battery Endpoint	3.682	+ 20	2,593,102,346	5,828	0.0002248

Table 7-37. LTE Band 41(PC3) Frequency Stability Data



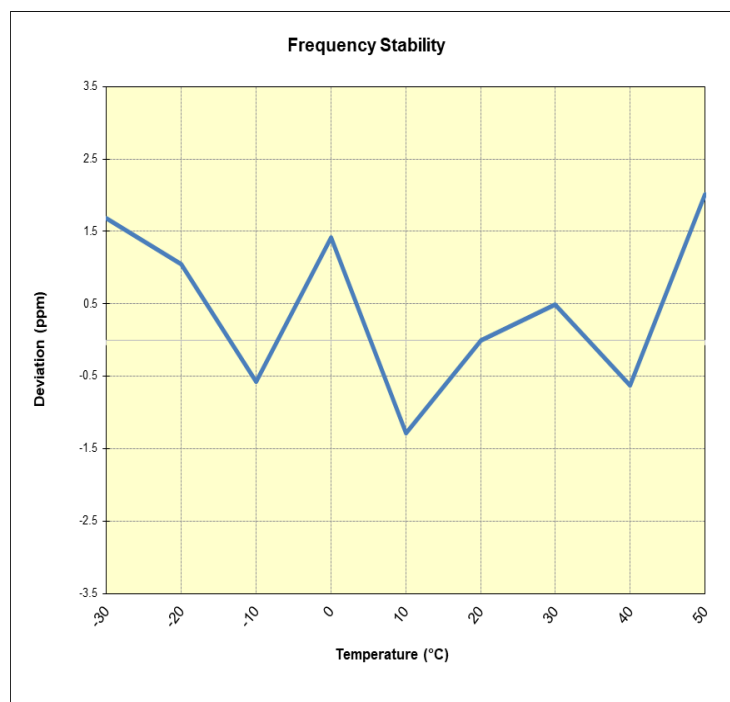
Plot 7-133. LTE Band 41(PC3) Frequency Stability Chart

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 117 of 120

NR Band n41

<table><tr><td>Operating Frequency (Hz):</td><td colspan="5">2,593,000,000</td></tr><tr><td>Ref. Voltage (VDC):</td><td colspan="5">4.464</td></tr></table>						Operating Frequency (Hz):	2,593,000,000					Ref. Voltage (VDC):	4.464				
Operating Frequency (Hz):	2,593,000,000																
Ref. Voltage (VDC):	4.464																
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)												
100 %	4.464	- 30	2,592,989,360	4,351	0.0001678												
		- 20	2,592,987,734	2,725	0.0001051												
		- 10	2,592,983,506	-1,503	-0.0000580												
		0	2,592,988,676	3,667	0.0001414												
		+ 10	2,592,981,674	-3,335	-0.0001286												
		+ 20 (Ref)	2,592,985,009	0	0.0000000												
		+ 30	2,592,986,272	1,263	0.0000487												
		+ 40	2,592,983,404	-1,605	-0.0000619												
		+ 50	2,592,990,237	5,228	0.0002016												
Battery Endpoint	3.682	+ 20	2,592,986,421	1,412	0.0000545												

Table 7-38. NR Band n41 Frequency Stability Data



Plot 7-134. NR Band n41 Frequency Stability Chart

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 118 of 120

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS948JPN** complies with all the requirements of Part 27 of the FCC rules. The data referenced from **FCC ID: A3LSMS948U** (Model SM-S948U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMS948JPN**.

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset	Page 119 of 120

9.0 APPENDIX A – DATA REFERENCING RESULTS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

Notes

- Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Radiated Spot-Checks – SC-53G

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7638.03	V	-	-	-74.81	16.58	48.77	-46.48	-25.00	-21.48

Table 9-1. Radiated Spurious Measurements (Spot-check) – NR Band n41

Results

FCC Rules	Test Item	Test Case	Reference Model: SM-S948U	Variant Model: SM-S948D	Deviation (dB)	Max Deviation (dB)	Pass/Fail
27	RSE	Low Ch. 509202, 100MHz, QPSK, 7638MHz, Ant F	-45.77	-46.48	-0.71	3	PASS

Table 9-2. Summary of Spot-checks – NR Band n41

- END OF TEST REPORT -

FCC ID: A3LSMS948JPN	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2508270082-05.A3L	Test Dates: 9/2/2025 - 10/31/2025	EUT Type: Portable Handset		Page 120 of 120