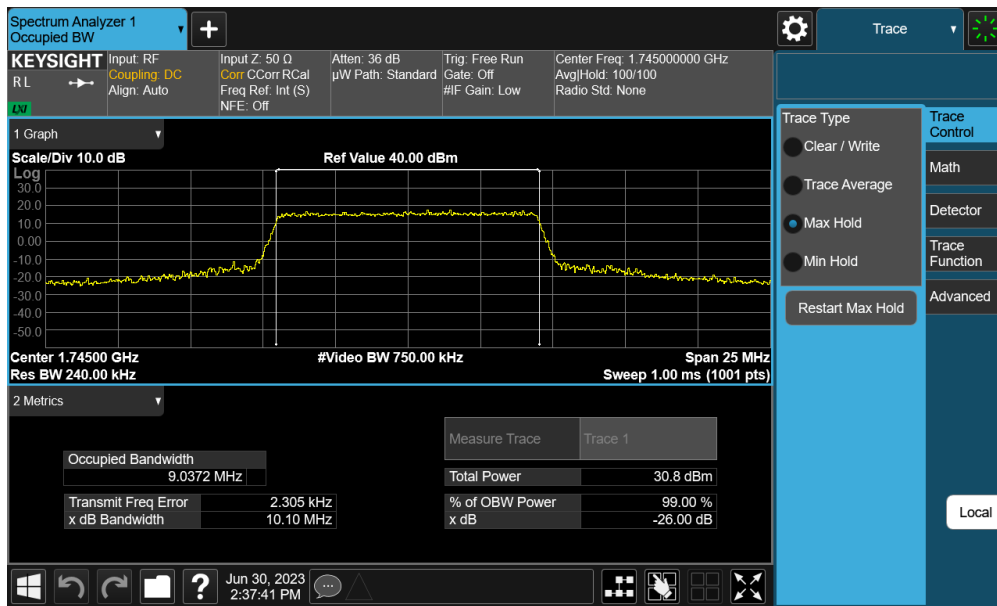
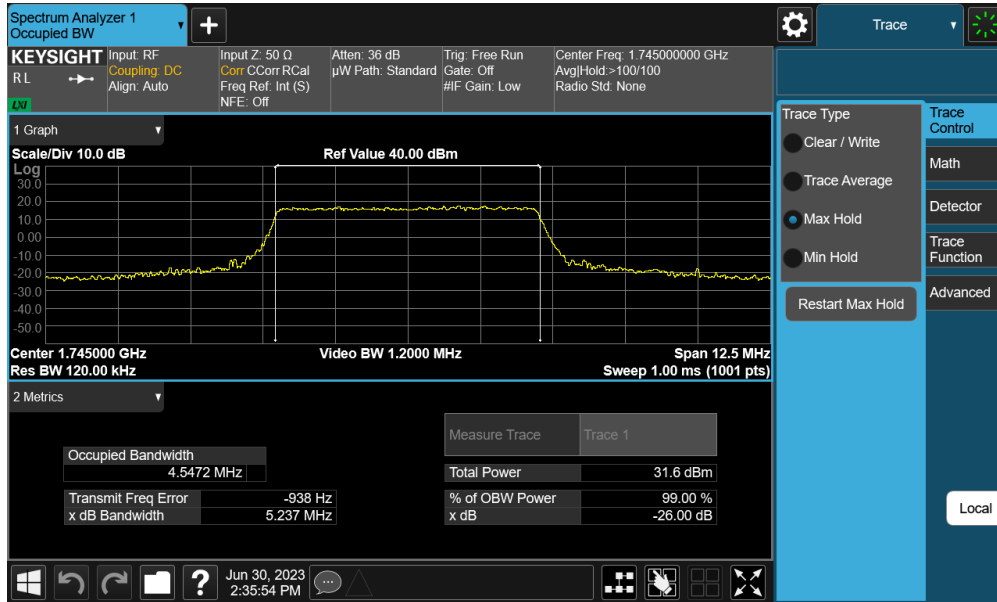


Plot 7-46. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB – Ant I)

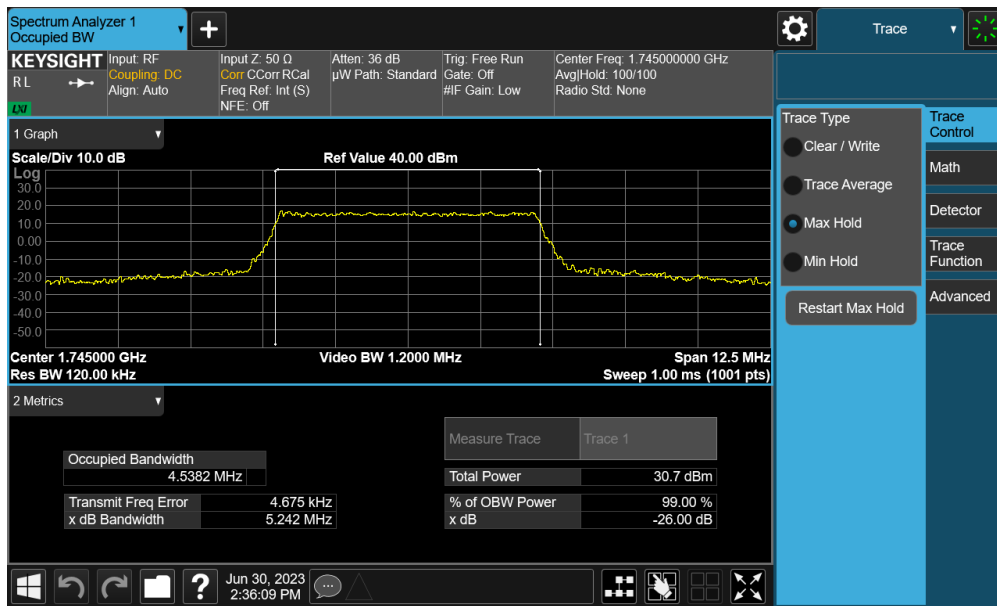


Plot 7-47. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB – Ant I)

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 42 of 134

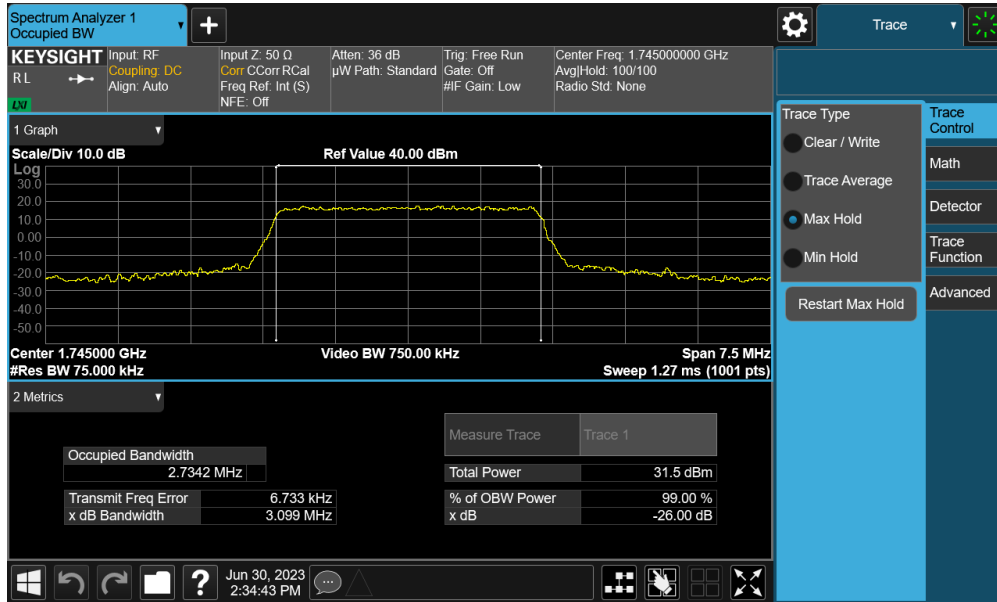


**Plot 7-48. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB – Ant I)**

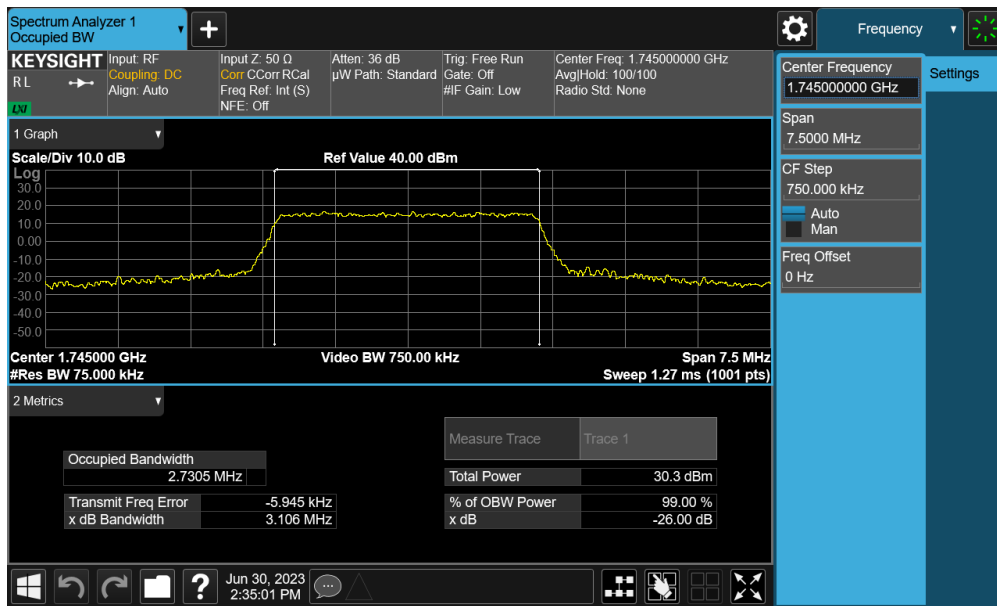


**Plot 7-49. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB – Ant I)**

<b>FCC ID:</b> A3LSMF731JPN	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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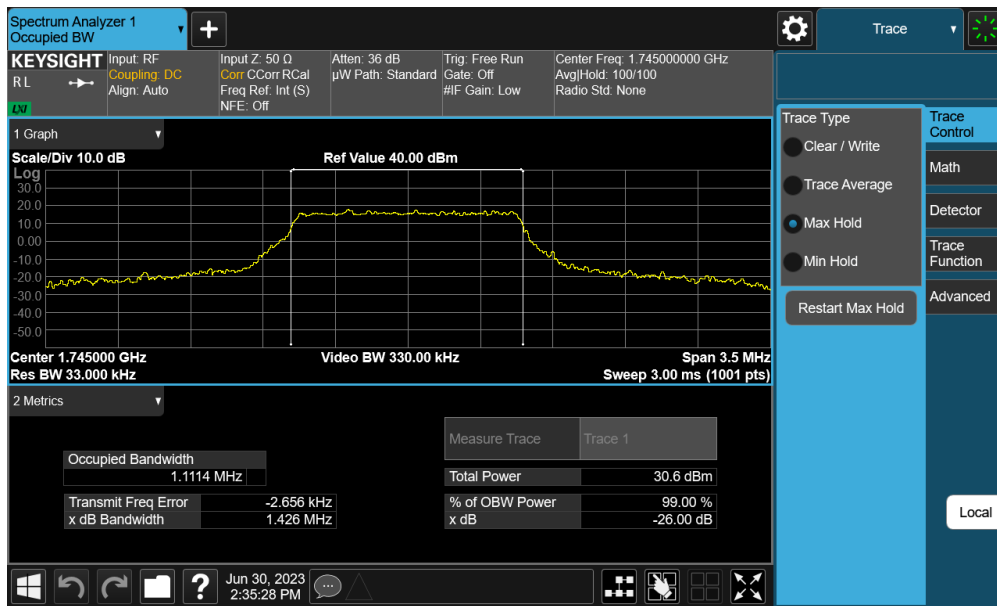
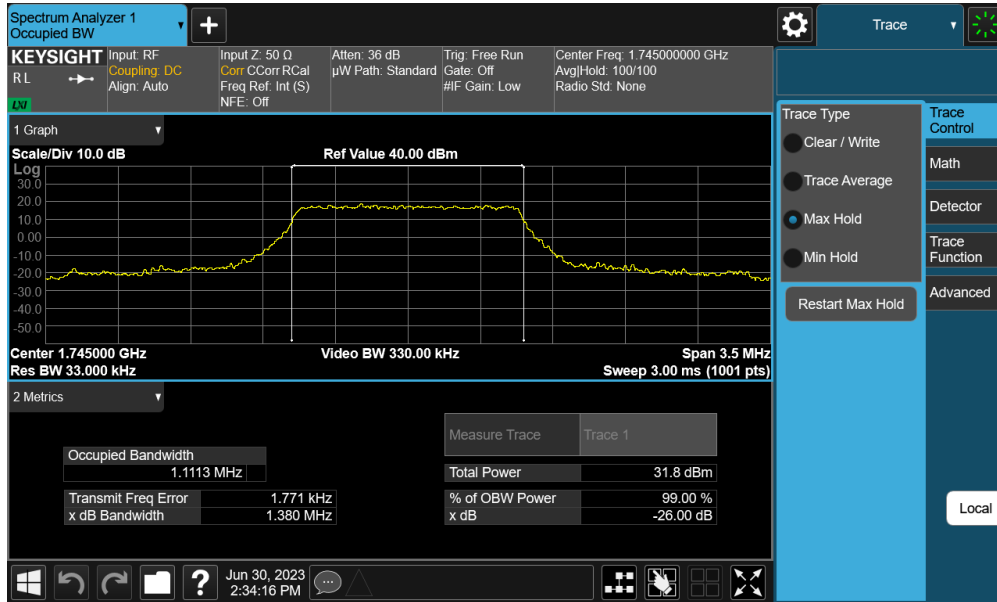


Plot 7-50. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB – Ant 1)



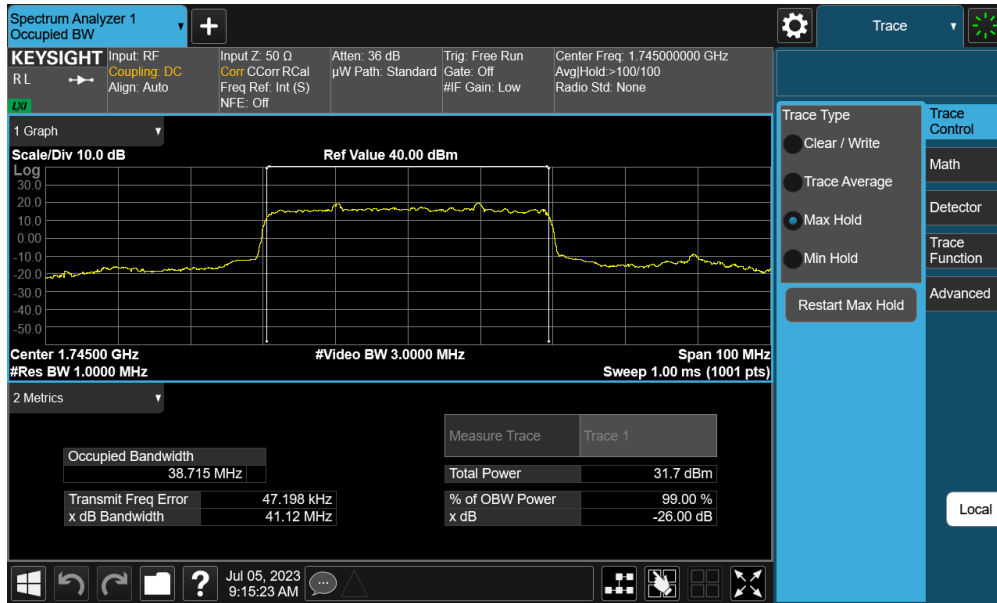
Plot 7-51. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB – Ant 1)

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n66 – Ant I

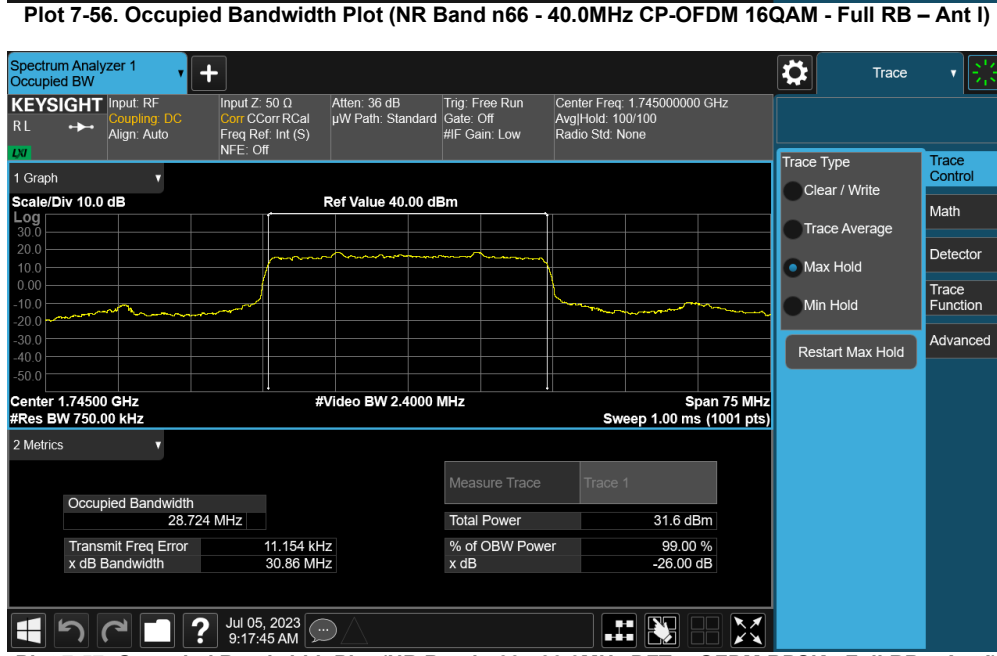


Plot 7-54. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – Ant I)

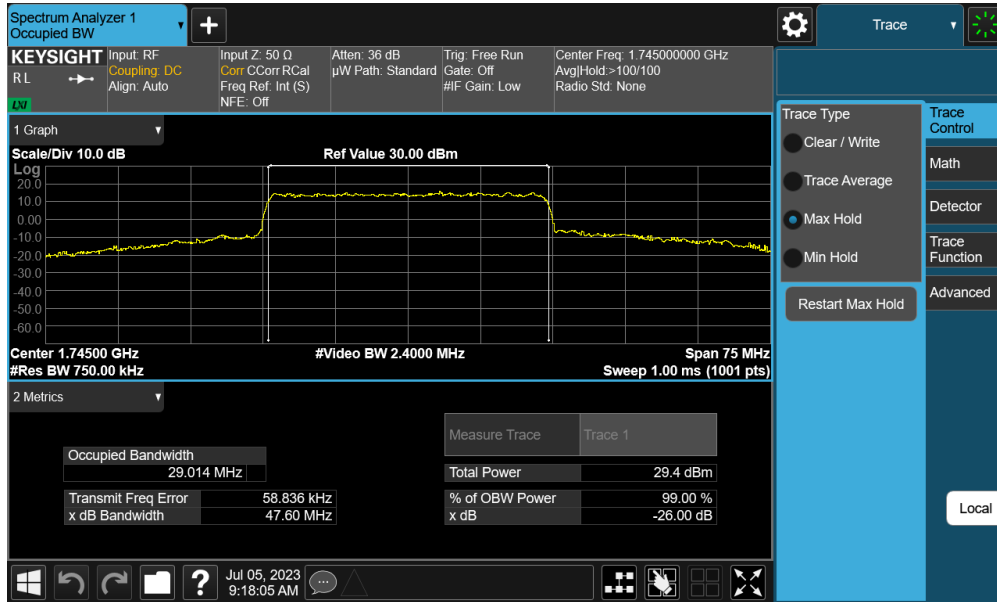


Plot 7-55. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB – Ant I)

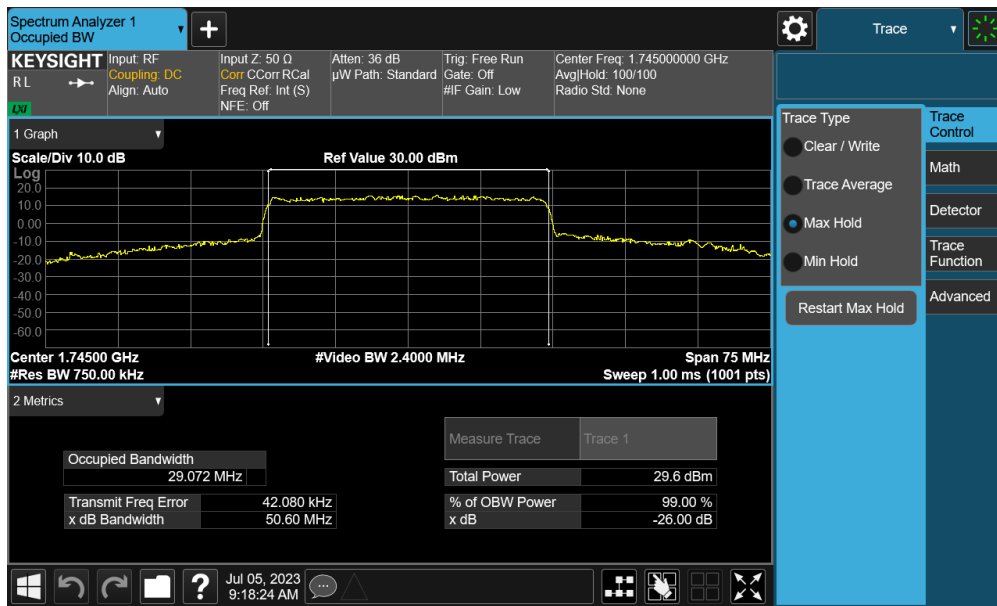
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 46 of 134



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Plot 7-58. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB – Ant I)



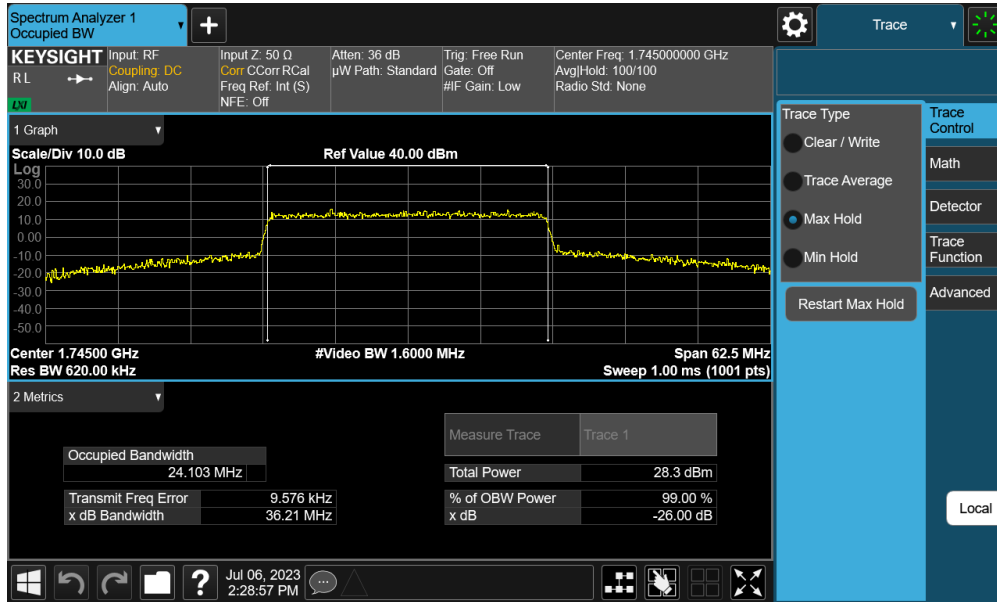
Plot 7-59. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB – Ant I)

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-62. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB – Ant I)**



**Plot 7-63. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – Ant I)**

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 50 of 134

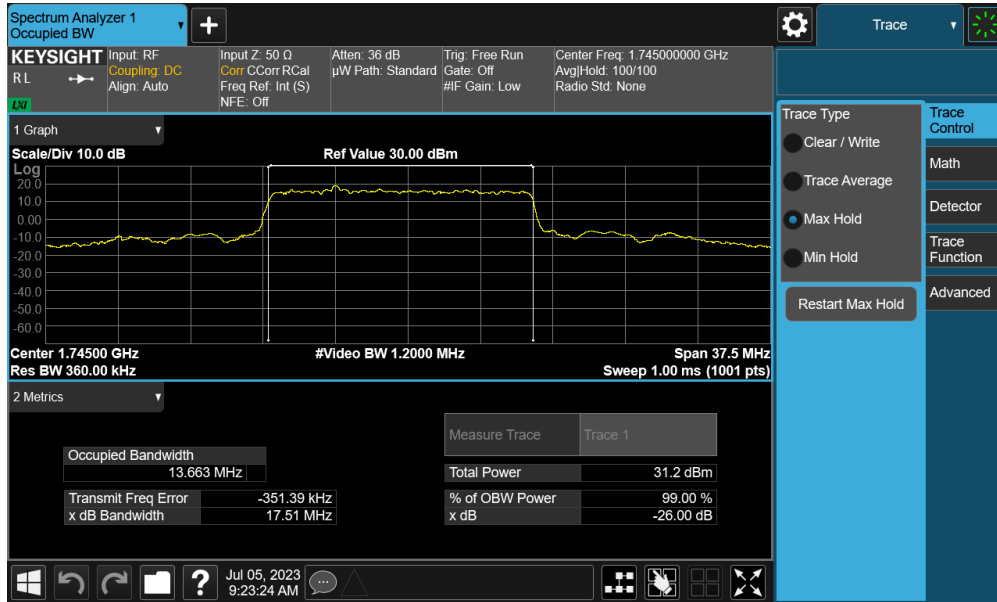


**Plot 7-64. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - Ant I)**



**Plot 7-65. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB - Ant I)**

<b>FCC ID:</b> A3LSMF731JPN	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2304260059-05.A3L	<b>Test Dates:</b> 6/15/2023 - 7/13/2023	<b>EUT Type:</b> Portable Handset	Page 51 of 134

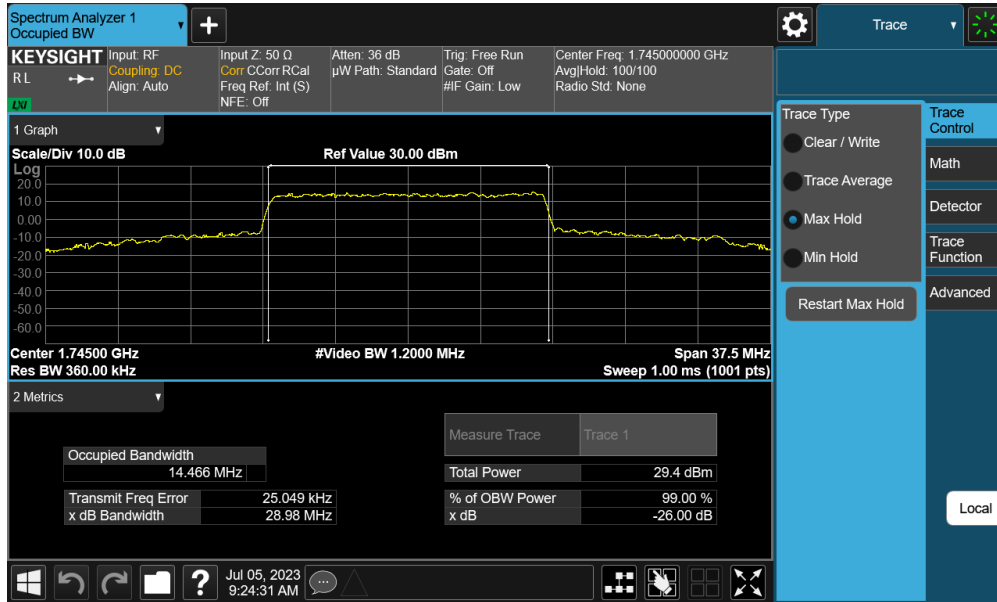


**Plot 7-66. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Ant I)**

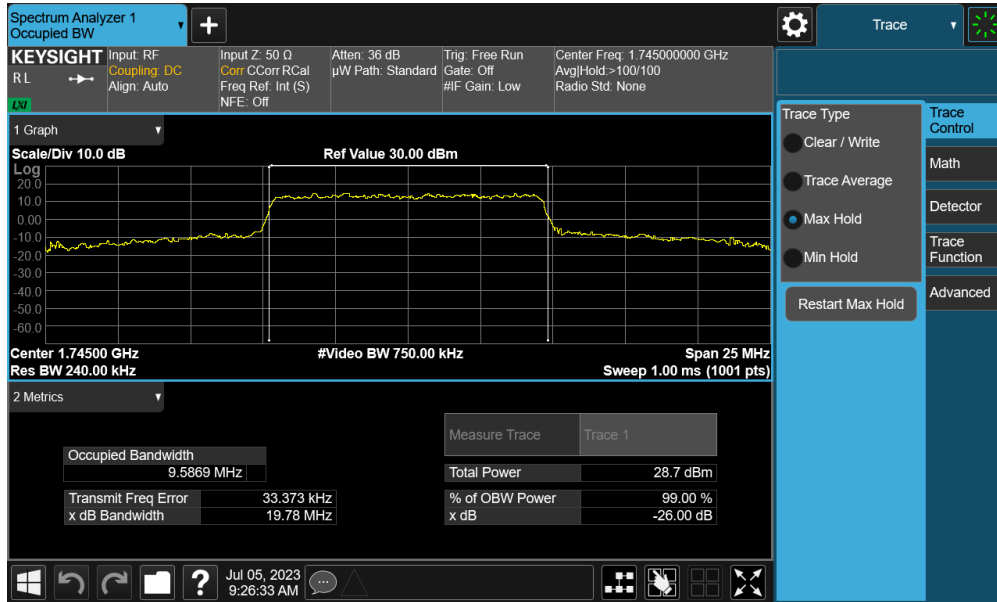


**Plot 7-67. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - Ant I)**

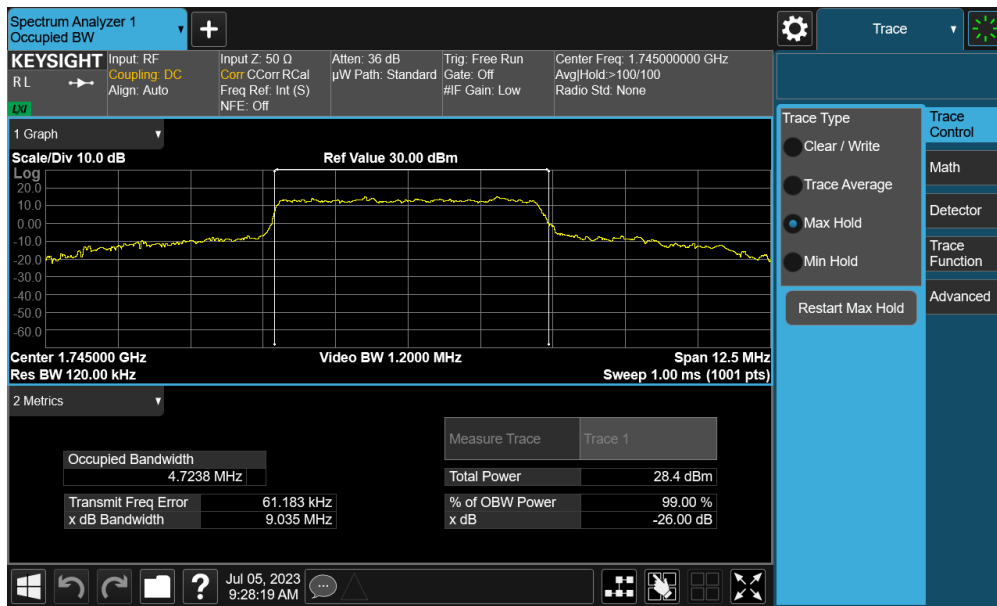
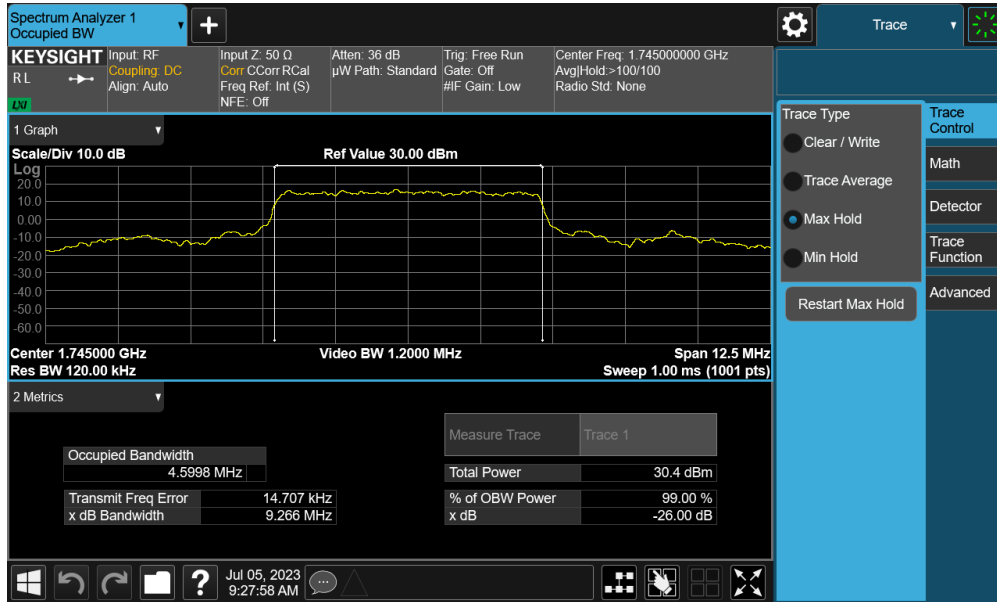
<b>FCC ID:</b> A3LSMF731JPN	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2304260059-05.A3L	<b>Test Dates:</b> 6/15/2023 - 7/13/2023	<b>EUT Type:</b> Portable Handset	Page 52 of 134



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<b>FCC ID:</b> A3LSMF731JPN	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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<b>FCC ID:</b> A3LSMF731JPN	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2304260059-05.A3L	<b>Test Dates:</b> 6/15/2023 - 7/13/2023	<b>EUT Type:</b> Portable Handset	Page 55 of 134



Plot 7-74. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – Ant I)

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## 7.4 Spurious and Harmonic Emissions at Antenna Terminal

### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

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

### Test Procedure Used

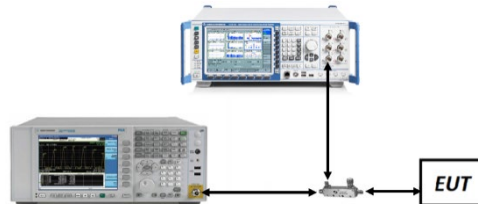
ANSI C63.26-2015 – Section 5.7.4

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
2. RBW  $\geq$  100kHz
3. VBW  $\geq$  3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

### Test Setup

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



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

1. Per Part 27 and RSS-139, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12	10 MHz	Low	30.0 - 697.9	-57.98	-13	-44.98
		Low	716.0 - 1000.0	-61.98	-13	-48.98
		Low	1000.0 - 10000.0	-43.31	-13	-30.31
		Mid	30.0 - 698.0	-61.48	-13	-48.48
		Mid	716.0 - 1000.0	-61.97	-13	-48.97
		Mid	1000.0 - 10000.0	-43.70	-13	-30.70
		High	30.0 - 697.9	-62.05	-13	-49.05
		High	716.1 - 1000.0	-53.70	-13	-40.70
		High	1000.0 - 10000.0	-43.73	-13	-30.73
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-59.26	-35	-24.26
		Mid	787.0 - 1000.0	-52.31	-35	-17.31
		Mid	1000.0 - 20000.0	-43.54	-13	-30.54

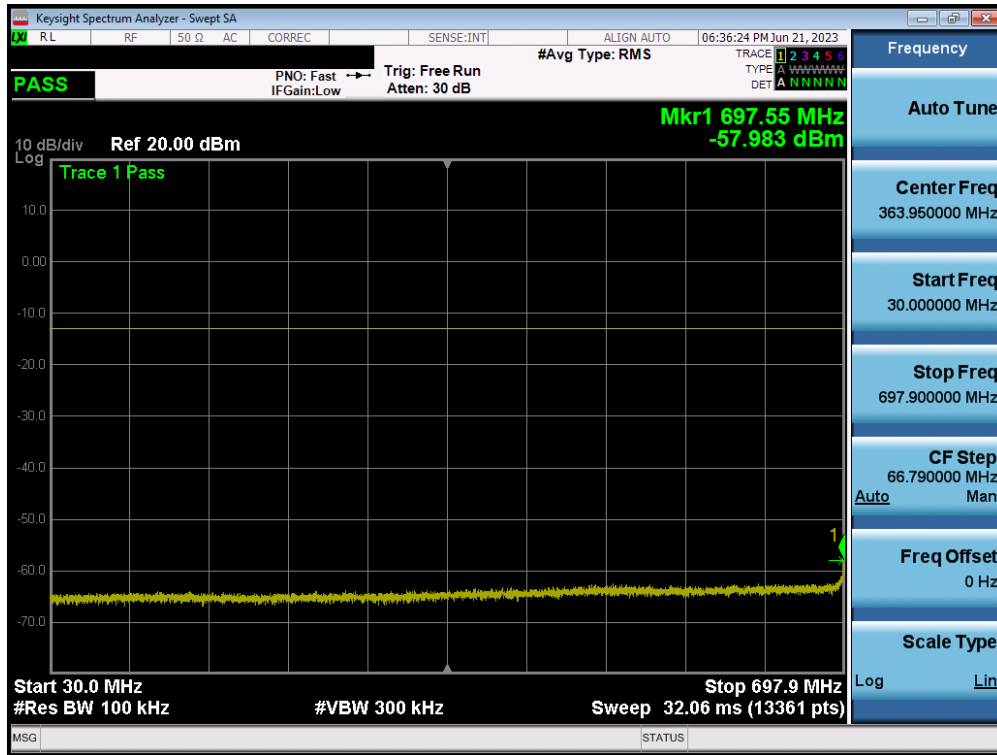
**Table 7-7. Conducted Spurious Emission Results – Below 1GHz – Ant A**

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20 MHz	Low	30.0 - 1709.0	-49.41	-13	-36.41
		Low	1780.0 - 10000.0	-43.48	-13	-30.48
		Low	10000.0 - 20000.0	-46.35	-13	-33.35
		Mid	30.0 - 1710.0	-49.55	-13	-36.55
		Mid	1780.0 - 10000.0	-43.56	-13	-30.56
		Mid	10000.0 - 20000.0	-46.35	-13	-33.35
		High	30.0 - 1710.0	-49.62	-13	-36.62
		High	1781.0 - 10000.0	-43.64	-13	-30.64
		High	10000.0 - 20000.0	-46.31	-13	-33.31
NR Band n66	40 MHz	Low	30.0 - 1710.0	-49.25	-13	-36.25
		Low	1780.0 - 10000.0	-41.89	-13	-28.89
		Low	10000.0 - 20000.0	-56.31	-13	-43.31
		Mid	30.0 - 1710.0	-49.35	-13	-36.35
		Mid	1780.0 - 10000.0	-41.56	-13	-28.56
		Mid	10000.0 - 20000.0	-56.28	-13	-43.28
		High	30.0 - 1710.0	-49.29	-13	-36.29
		High	1780.0 - 10000.0	-41.46	-13	-28.46
		High	10000.0 - 20000.0	-55.95	-13	-42.95

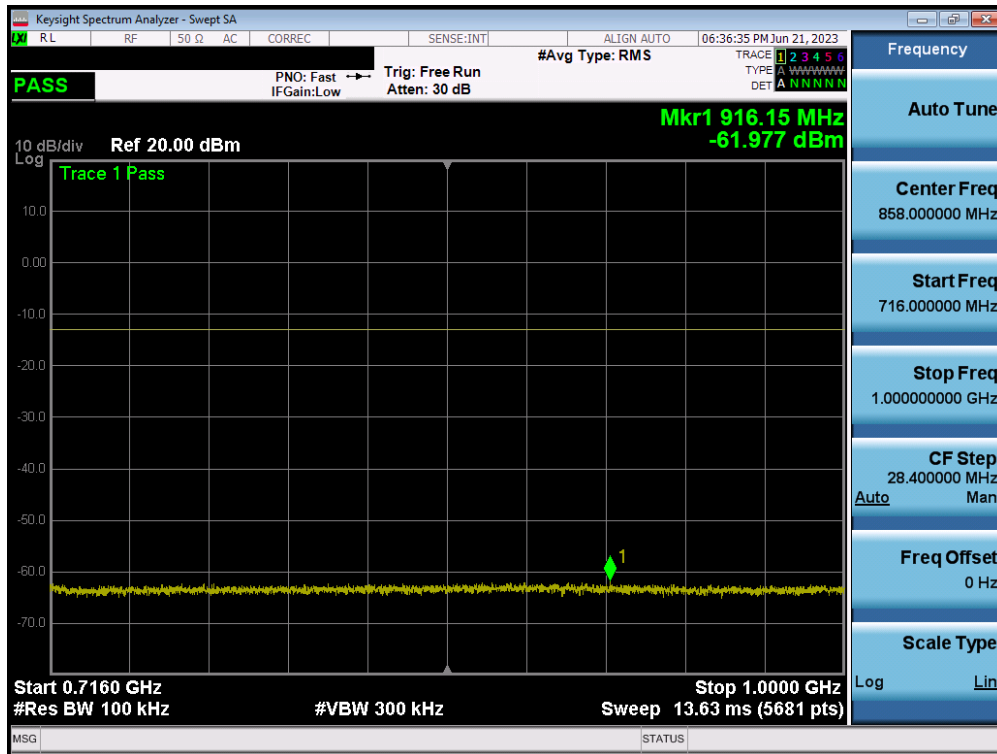
**Table 7-8. Conducted Spurious Emission Results – Above 1GHz – Ant A**

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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### LTE Band 12 – Ant A



Plot 7-75. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel – Ant A)

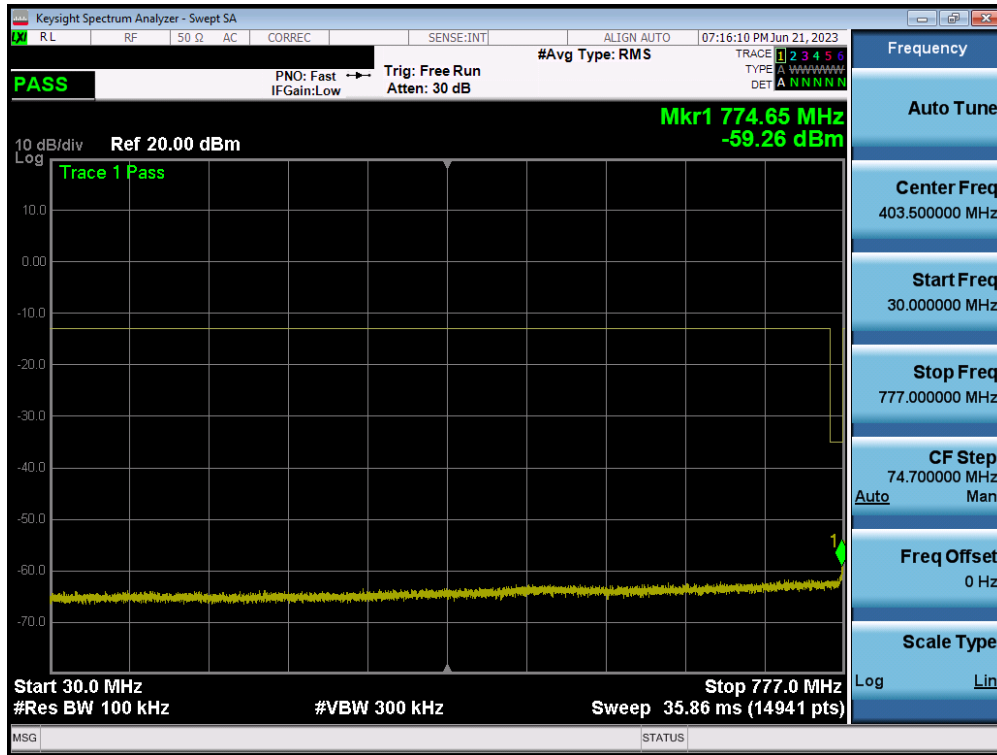


Plot 7-76. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel – Ant A)

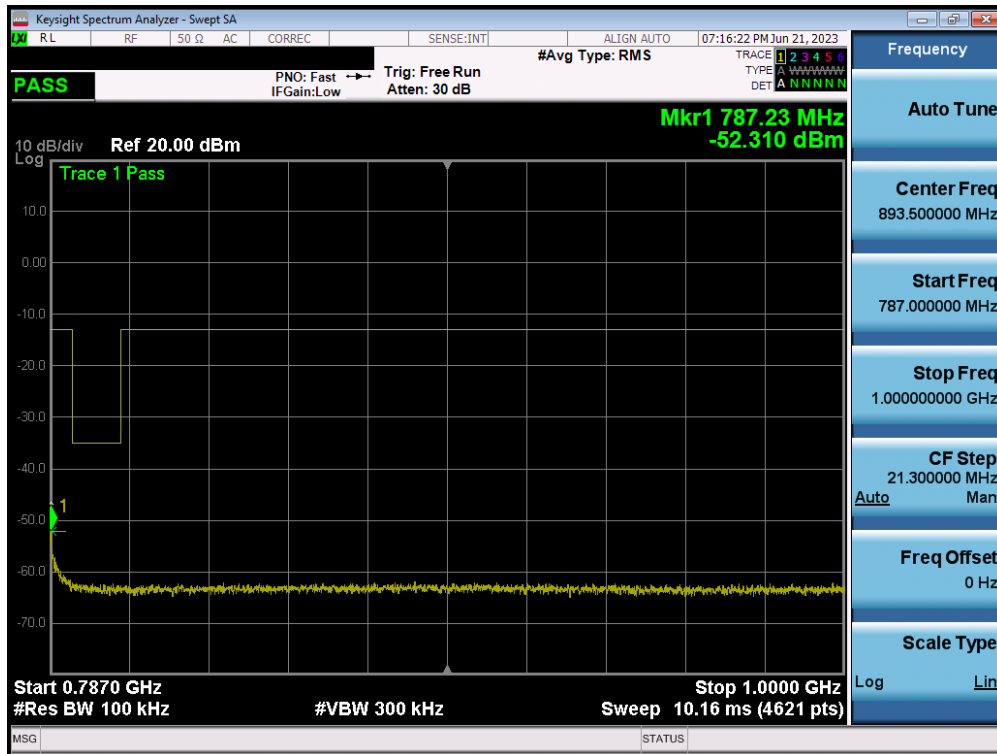
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 59 of 134



# LTE Band 13 – Ant A

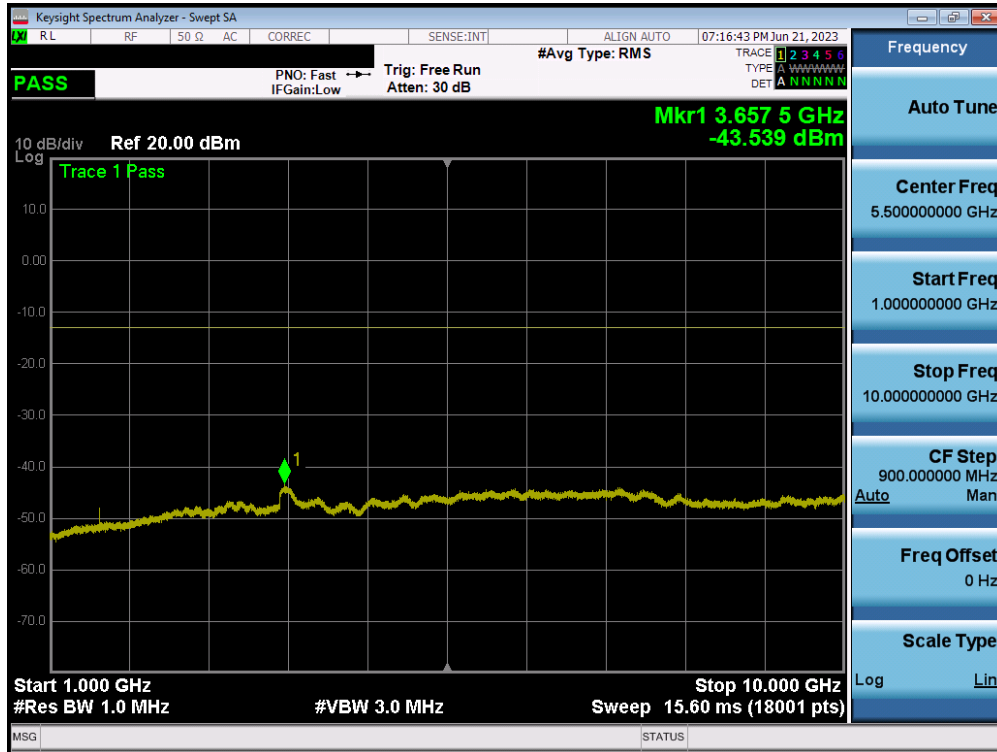


Plot 7-78. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-79. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

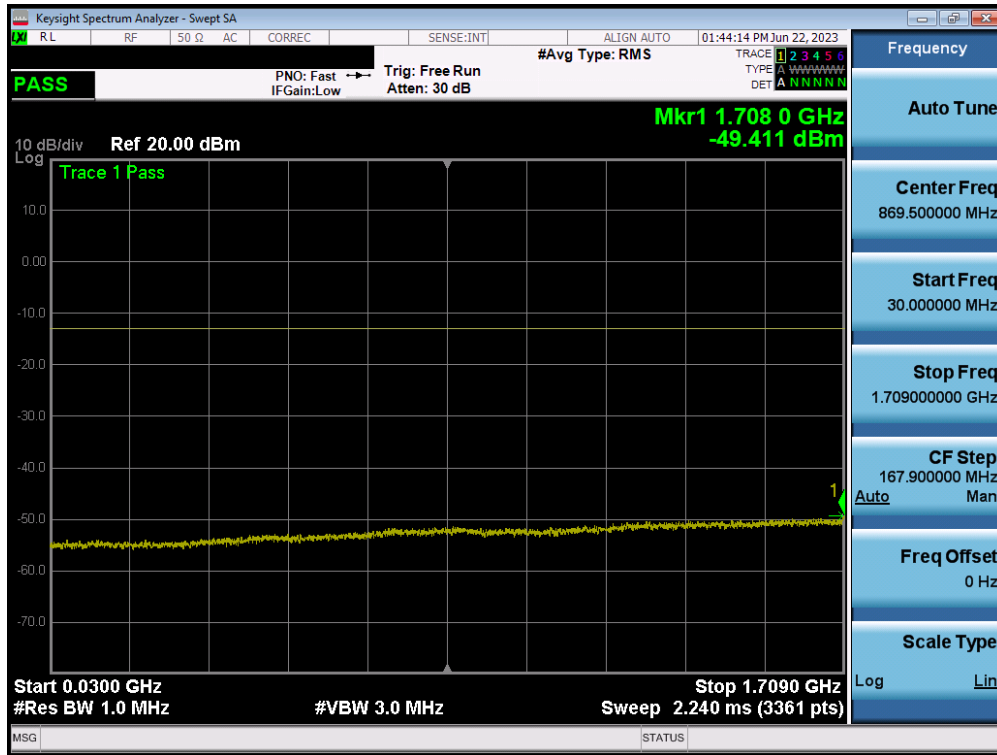
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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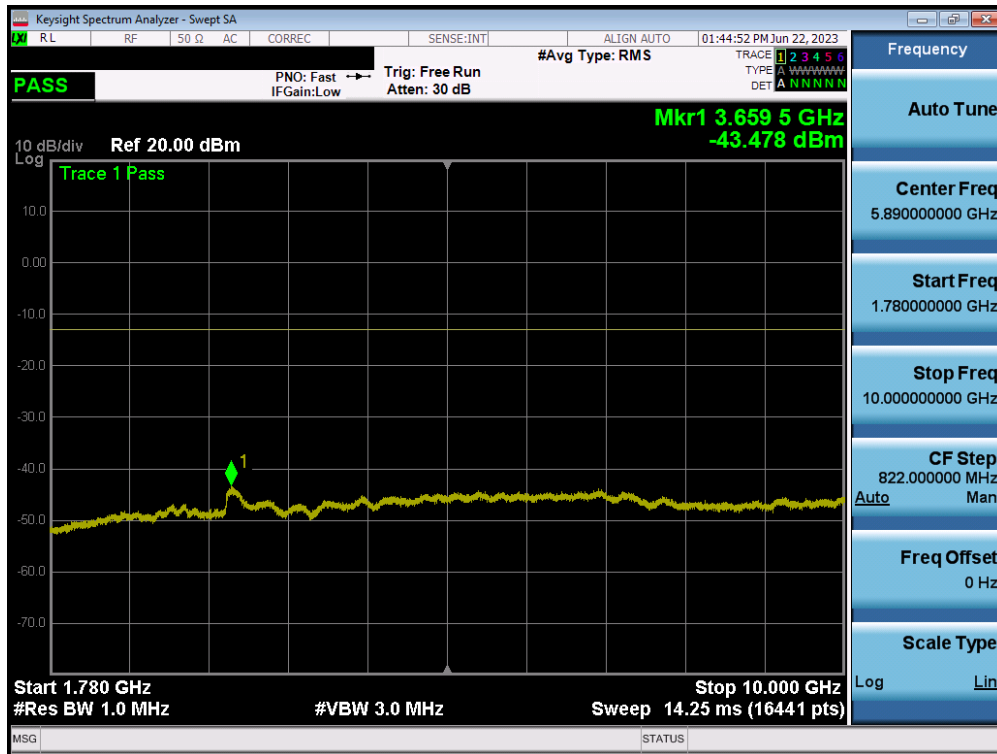
Plot 7-80. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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### LTE Band 66/4 – Ant A



Plot 7-81. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel – Ant A)



Plot 7-82. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel – Ant A)

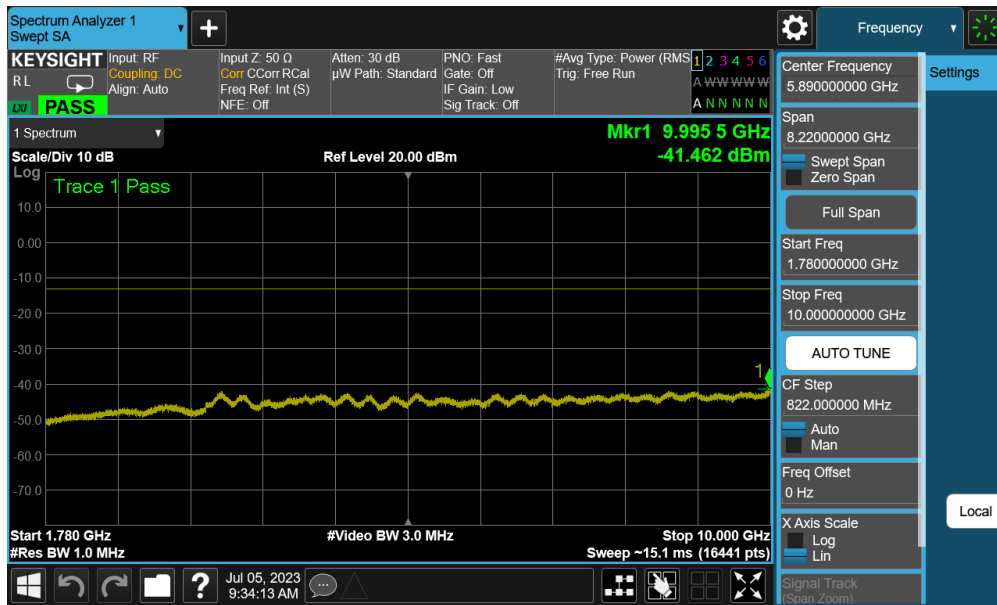
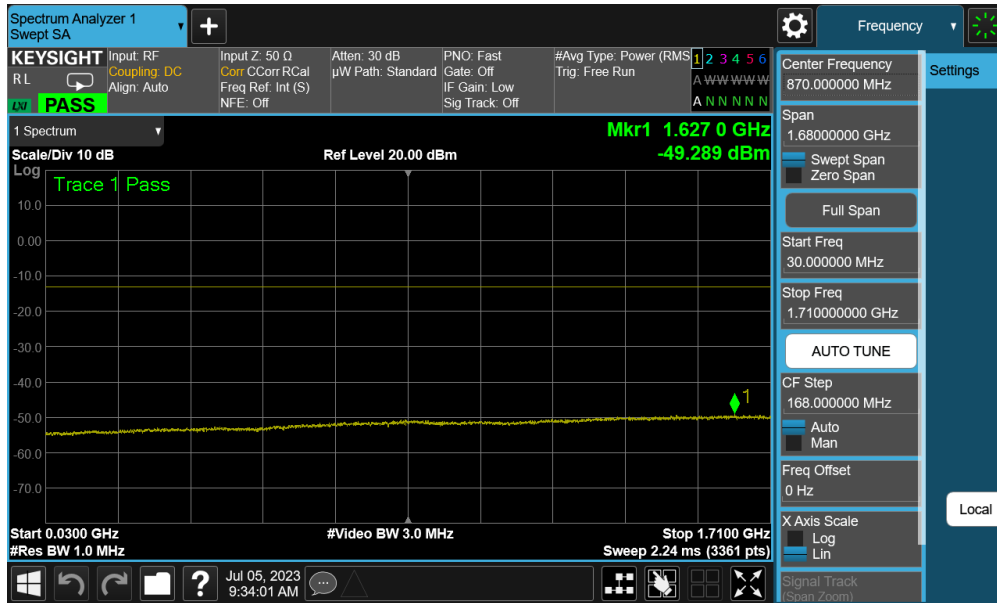
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 63 of 134



Plot 7-83. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel – Ant A)

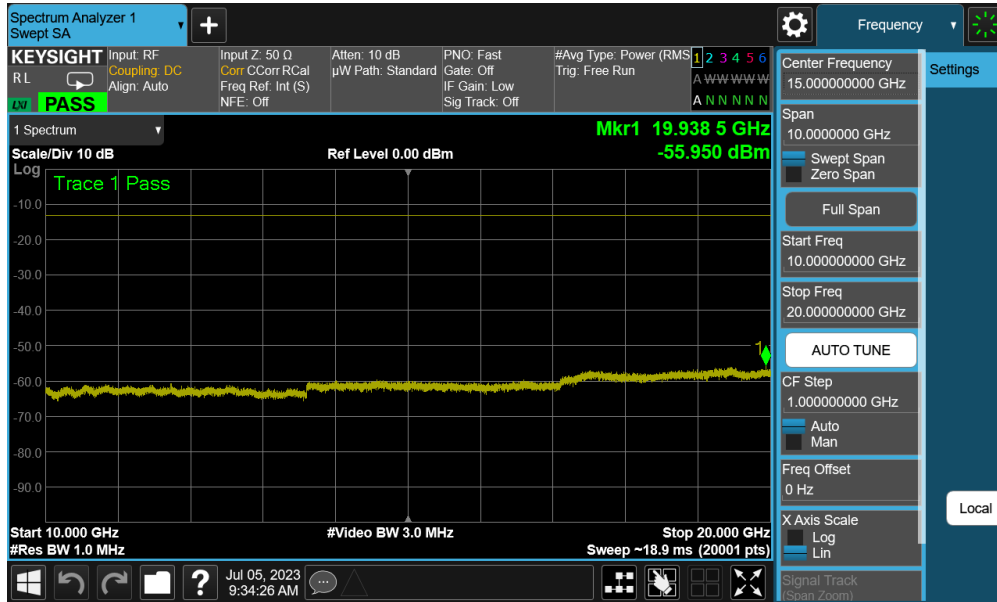
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 64 of 134

# NR Band n66 – Ant A



FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-86. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel – Ant A)

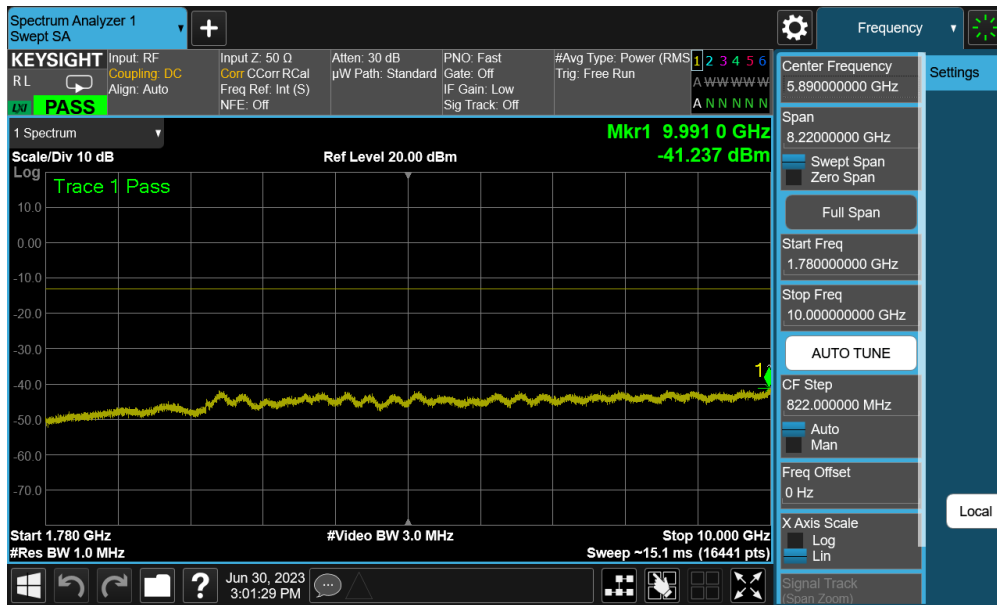
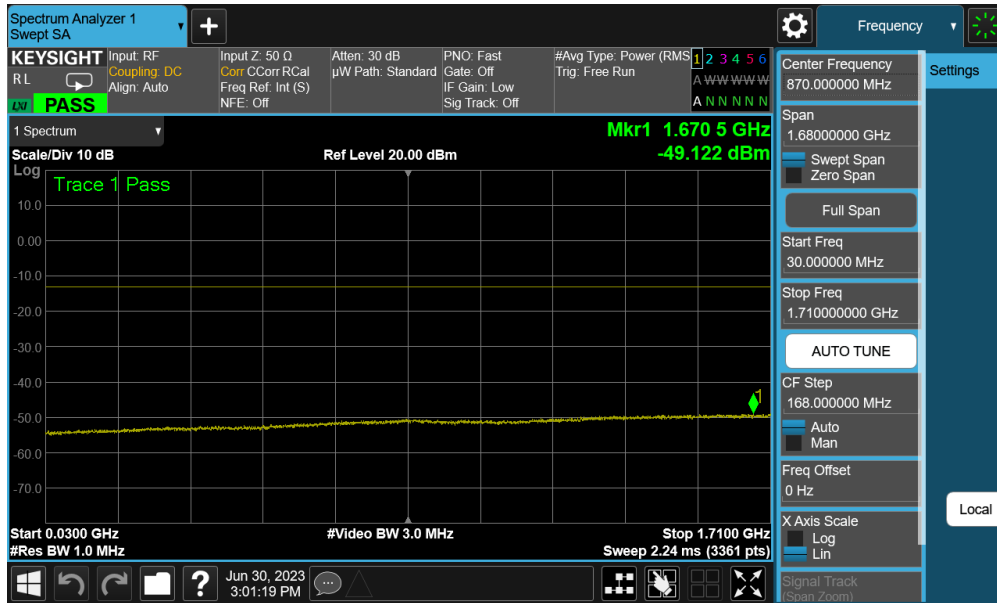
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 66 of 134

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20 MHz	Low	30.0 - 1709.0	-48.44	-13	-35.44
		Low	1780.0 - 10000.0	-41.39	-13	-28.39
		Low	10000.0 - 20000.0	-55.50	-13	-42.50
		Mid	30.0 - 1710.0	-49.12	-13	-36.12
		Mid	1780.0 - 10000.0	-41.24	-13	-28.24
		Mid	10000.0 - 20000.0	-55.91	-13	-42.91
		High	30.0 - 1710.0	-49.12	-13	-36.12
		High	1781.0 - 10000.0	-41.42	-13	-28.42
		High	10000.0 - 20000.0	-55.87	-13	-42.87
NR Band n66	40 MHz	Low	30.0 - 1710.0	-49.18	-13	-36.18
		Low	1780.0 - 10000.0	-41.60	-13	-28.60
		Low	10000.0 - 20000.0	-56.29	-13	-43.29
		Mid	30.0 - 1710.0	-49.25	-13	-36.25
		Mid	1780.0 - 10000.0	-41.35	-13	-28.35
		Mid	10000.0 - 20000.0	-56.13	-13	-43.13
		High	30.0 - 1710.0	-49.39	-13	-36.39
		High	1780.0 - 10000.0	-41.56	-13	-28.56
		High	10000.0 - 20000.0	-55.97	-13	-42.97

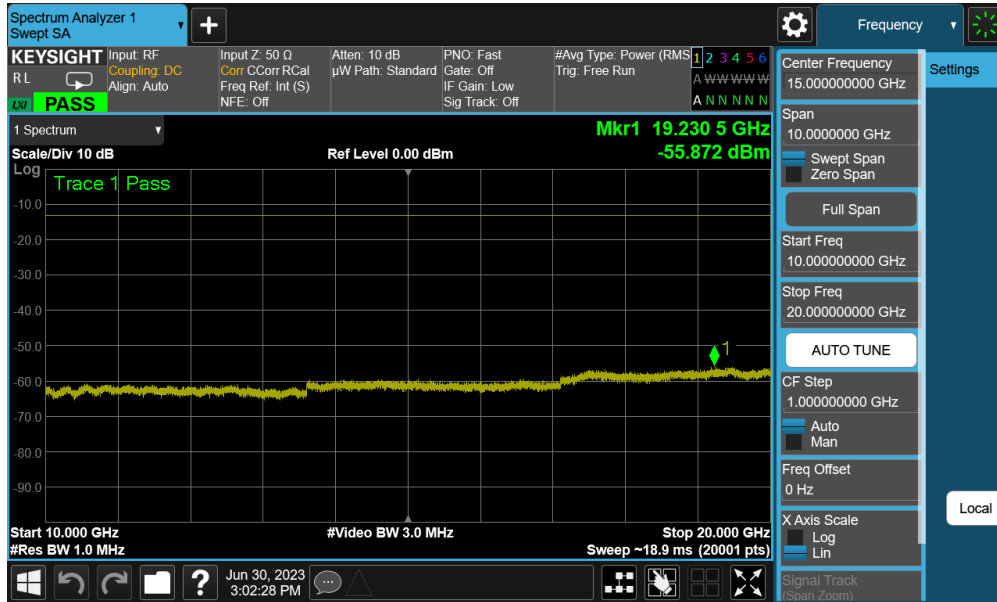
**Table 7-9. Conducted Spurious Emission Results – Above 1GHz – Ant I**

<b>FCC ID:</b> A3LSMF731JPN	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2304260059-05.A3L	<b>Test Dates:</b> 6/15/2023 - 7/13/2023	<b>EUT Type:</b> Portable Handset	Page 67 of 134

### LTE Band 66/4 – Ant I



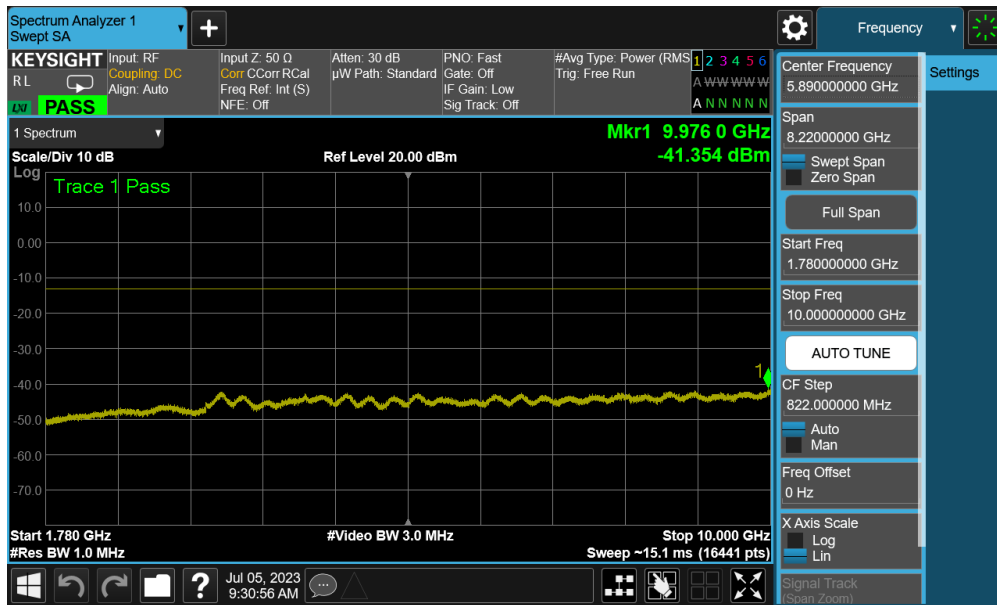
FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260059-05.A3L	Test Dates: 6/15/2023 - 7/13/2023	EUT Type: Portable Handset	Page 68 of 134



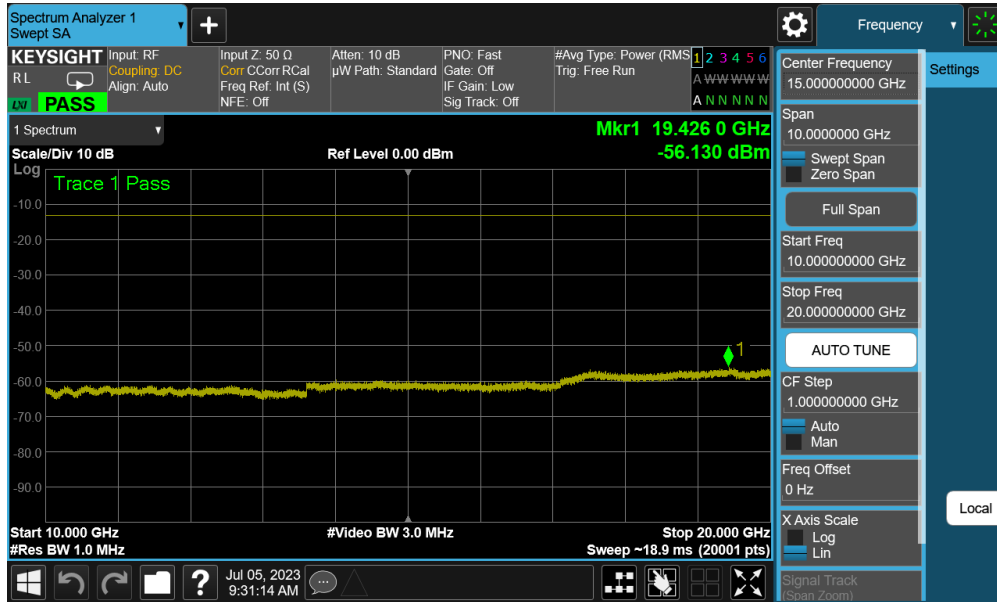
Plot 7-89. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel – Ant I)

FCC ID: A3LSMF731JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n66 – Ant I



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Plot 7-92. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel – Ant I)

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## 7.5 Band Edge Emissions at Antenna Terminal

### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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

### Test Procedure Used

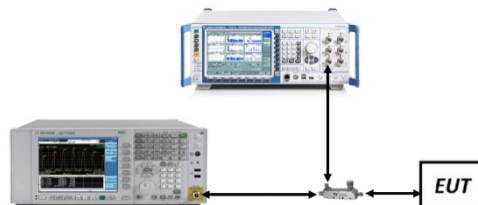
ANSI C63.26-2015 – Section 5.7.3

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 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**

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**Test Notes**

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

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 12	10 MHz	Low	Band Edge	-31.92	-13	-18.92
		High	Band Edge	-33.87	-13	-20.87
	5 MHz	Low	Band Edge	-23.03	-13	-10.03
		High	Band Edge	-24.16	-13	-11.16
	3 MHz	Low	Band Edge	-18.15	-13	-5.15
		High	Band Edge	-18.25	-13	-5.25
	1.4 MHz	Low	Band Edge	-15.87	-13	-2.87
		High	Band Edge	-16.71	-13	-3.71
LTE Band 13	10 MHz	Low	Band Edge	-30.28	-13	-17.28
		Low	Extended	-53.67	-35	-18.67
		High	Band Edge	-30.28	-13	-17.28
		High	Extended	-53.67	-35	-18.67
	5 MHz	Low	Band Edge	-19.02	-13	-6.02
		Low	Extended	-56.43	-35	-21.43
		High	Band Edge	-19.02	-13	-6.02
		High	Extended	-56.43	-35	-21.43

**Table 7-10. Band Edge Test Results – LTE Band 12, LTE Band 13 – Ant A**

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66/4	20MHz	Low	Band Edge	-28.19	-13	-15.19
		Low	Extended	-26.83	-13	-13.83
		High (B4)	Band Edge	-30.60	-13	-17.60
		High (B4)	Extended	-27.56	-13	-14.56
		High (B66)	Band Edge	-27.96	-13	-14.96
		High (B66)	Extended	-26.12	-13	-13.12
	15MHz	Low	Band Edge	-26.57	-13	-13.57
		Low	Extended	-23.17	-13	-10.17
		High (B4)	Band Edge	-26.41	-13	-13.41
		High (B4)	Extended	-24.30	-13	-11.30
		High (B66)	Band Edge	-26.74	-13	-13.74
		High (B66)	Extended	-23.42	-13	-10.42
	10MHz	Low	Band Edge	-26.75	-13	-13.75
		Low	Extended	-24.42	-13	-11.42
		High (B4)	Band Edge	-28.46	-13	-15.46
		High (B4)	Extended	-25.40	-13	-12.40
		High (B66)	Band Edge	-27.95	-13	-14.95
		High (B66)	Extended	-24.94	-13	-11.94
	5MHz	Low	Band Edge	-23.36	-13	-10.36
		Low	Extended	-25.70	-13	-12.70
		High (B4)	Band Edge	-23.87	-13	-10.87
		High (B4)	Extended	-26.41	-13	-13.41
		High (B66)	Band Edge	-24.71	-13	-11.71
		High (B66)	Extended	-26.22	-13	-13.22
	3MHz	Low	Band Edge	-19.70	-13	-6.70
		Low	Extended	-32.43	-13	-19.43
		High (B4)	Band Edge	-19.25	-13	-6.25
		High (B4)	Extended	-29.91	-13	-16.91
		High (B66)	Band Edge	-22.03	-13	-9.03
		High (B66)	Extended	-27.48	-13	-14.48
	1.4MHz	Low	Band Edge	-22.95	-13	-9.95
		Low	Extended	-26.45	-13	-13.45
		High (B4)	Band Edge	-22.83	-13	-9.83
		High (B4)	Extended	-26.32	-13	-13.32
		High (B66)	Band Edge	-22.50	-13	-9.50
		High (B66)	Extended	-26.67	-13	-13.67

**Table 7-11. Band Edge Test Results – LTE B66/4 – Ant A**

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n66	40 MHz	Low	Band Edge	-28.14	-13	-15.14
		Low	Extended	-33.69	-13	-20.69
		High	Band Edge	-25.26	-13	-12.26
		High	Extended	-33.17	-13	-20.17
	30 MHz	Low	Band Edge	-28.70	-13	-15.70
		Low	Extended	-29.42	-13	-16.42
		High	Band Edge	-25.62	-13	-12.62
		High	Extended	-25.84	-13	-12.84
	25 MHz	Low	Band Edge	-36.58	-13	-23.58
		Low	Extended	-30.73	-13	-17.73
		High	Band Edge	-35.68	-13	-22.68
		High	Extended	-30.69	-13	-17.69
	20 MHz	Low	Band Edge	-30.89	-13	-17.89
		Low	Extended	-26.59	-13	-13.59
		High	Band Edge	-35.96	-13	-22.96
		High	Extended	-30.11	-13	-17.11
	15 MHz	Low	Band Edge	-29.74	-13	-16.74
		Low	Extended	-22.78	-13	-9.78
		High	Band Edge	-31.68	-13	-18.68
		High	Extended	-24.48	-13	-11.48
	10 MHz	Low	Band Edge	-29.45	-13	-16.45
		Low	Extended	-18.49	-13	-5.49
		High	Band Edge	-27.92	-13	-14.92
		High	Extended	-20.23	-13	-7.23
	5 MHz	Low	Band Edge	-23.68	-13	-10.68
		Low	Extended	-15.65	-13	-2.65
		High	Band Edge	-26.89	-13	-13.89
		High	Extended	-14.40	-13	-1.40

**Table 7-12. Band Edge Test Results – NR n66 – Ant A**

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