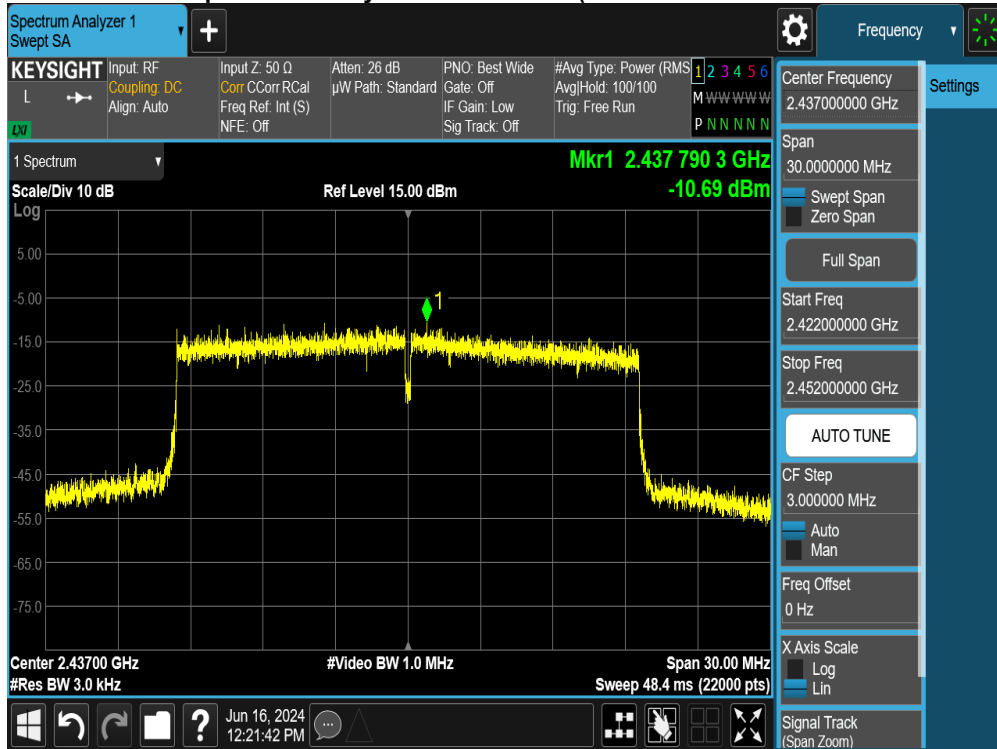
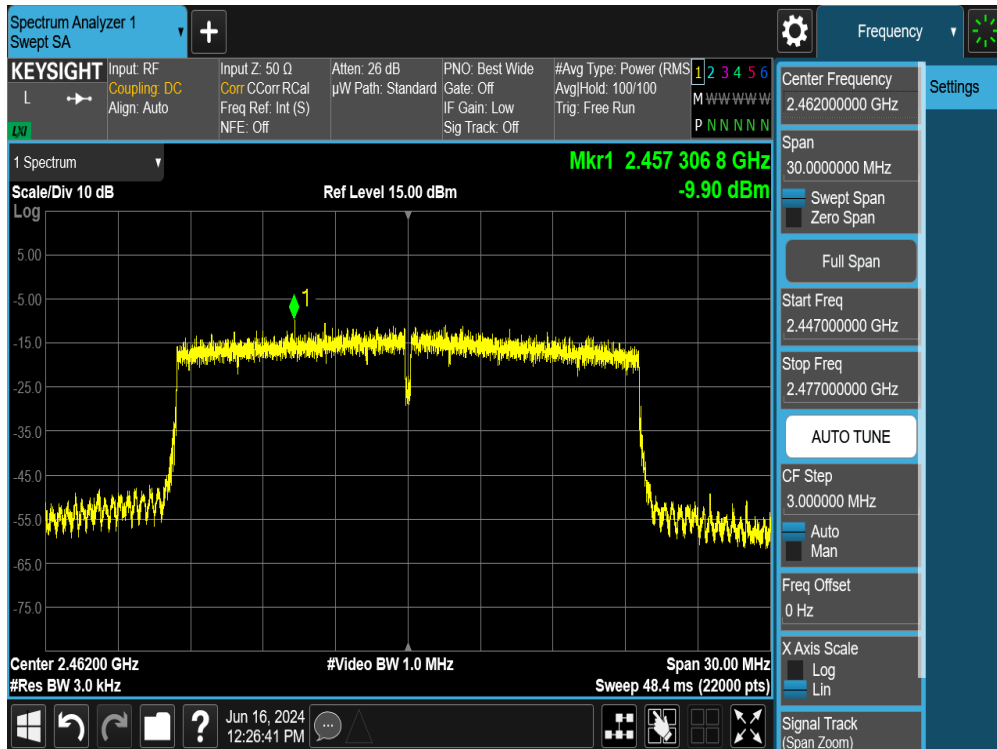


Plot 7-40. Power Spectral Density Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)

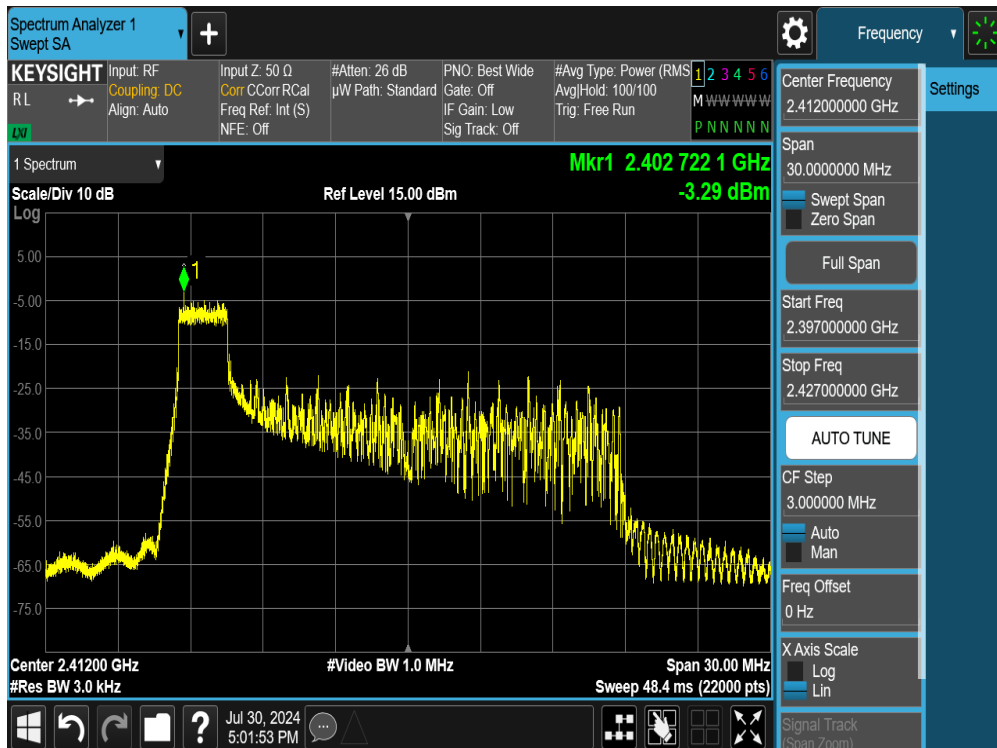


Plot 7-41. Power Spectral Density Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 45 of 112 |

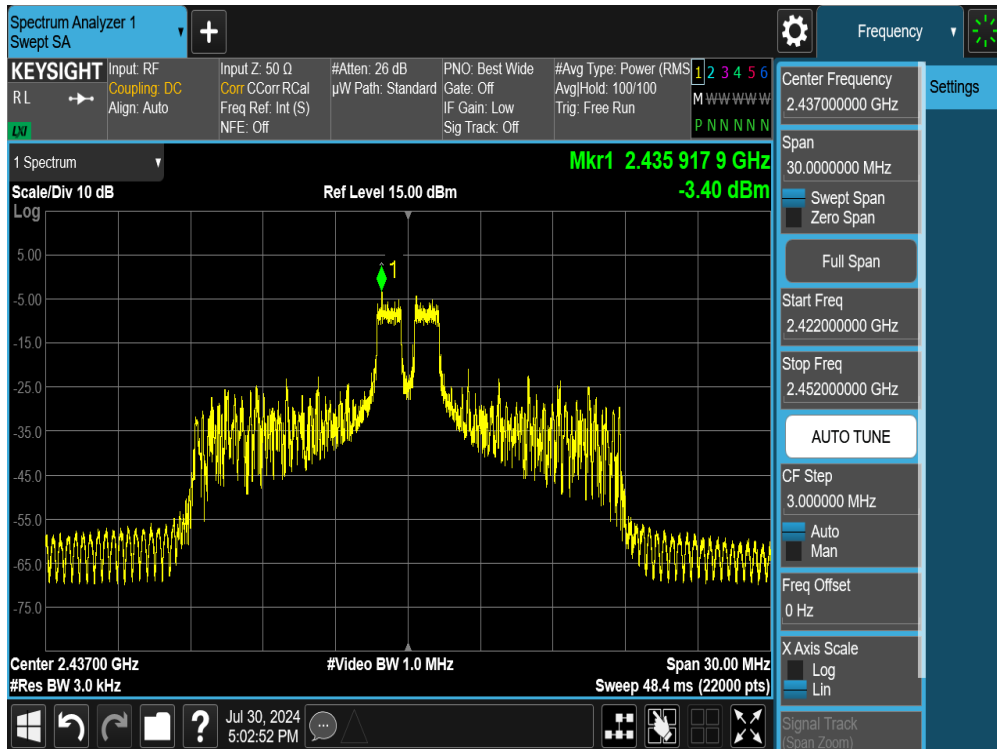


Plot 7-42. Power Spectral Density Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

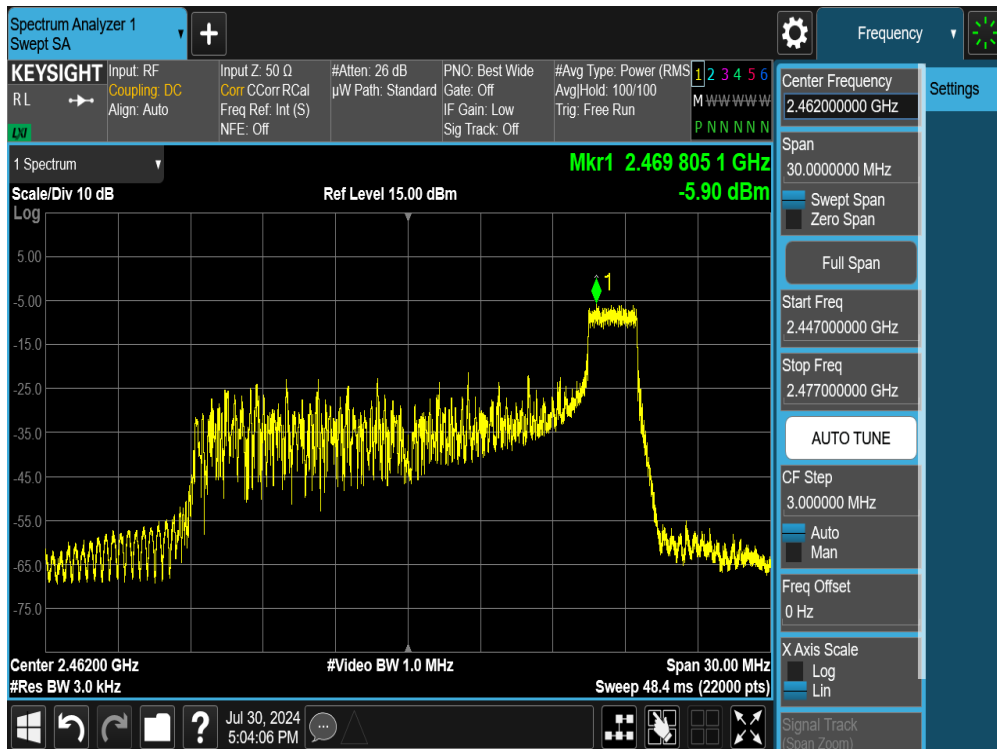


Plot 7-43. Power Spectral Density Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 1)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 46 of 112 |

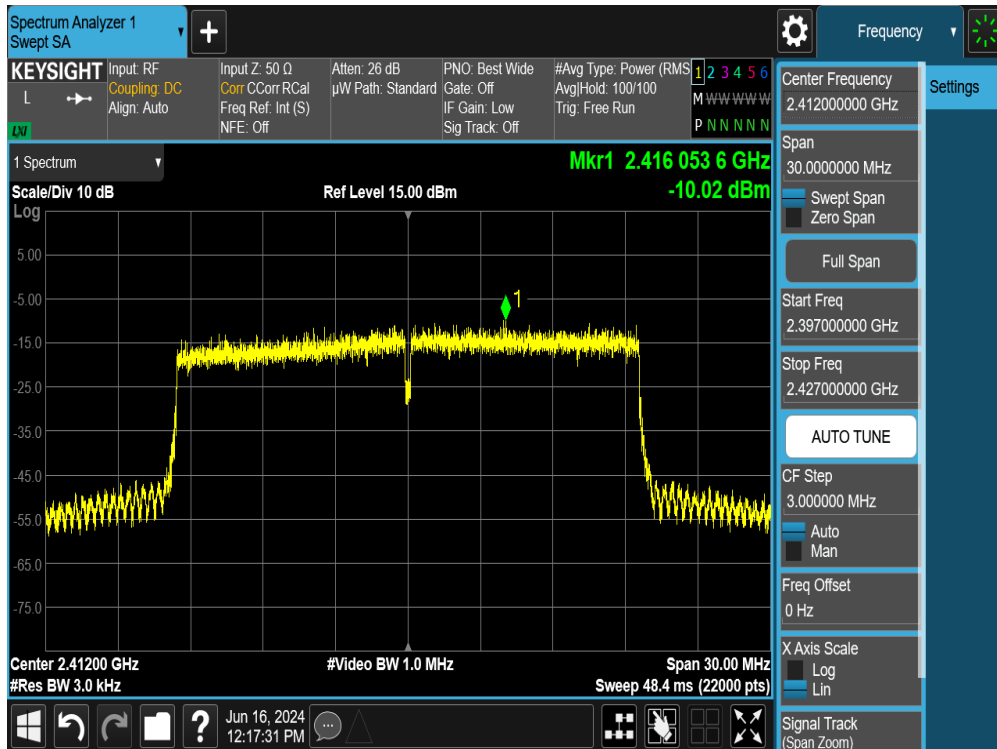


Plot 7-44. Power Spectral Density Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6)

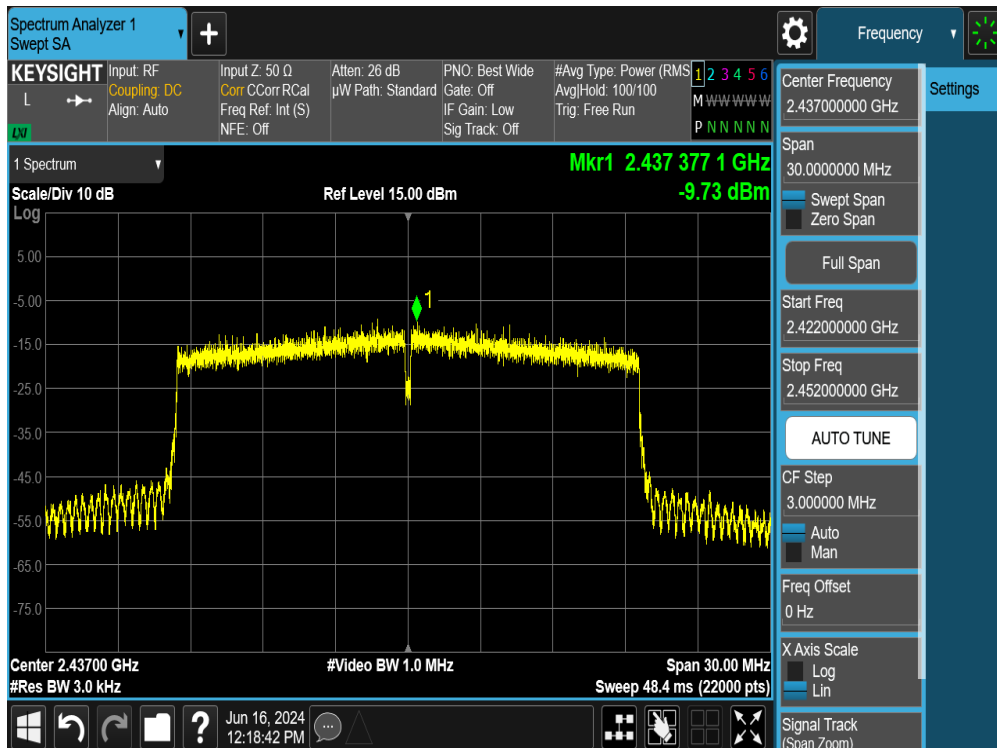


Plot 7-45. Power Spectral Density Plot MIMO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 47 of 112 |

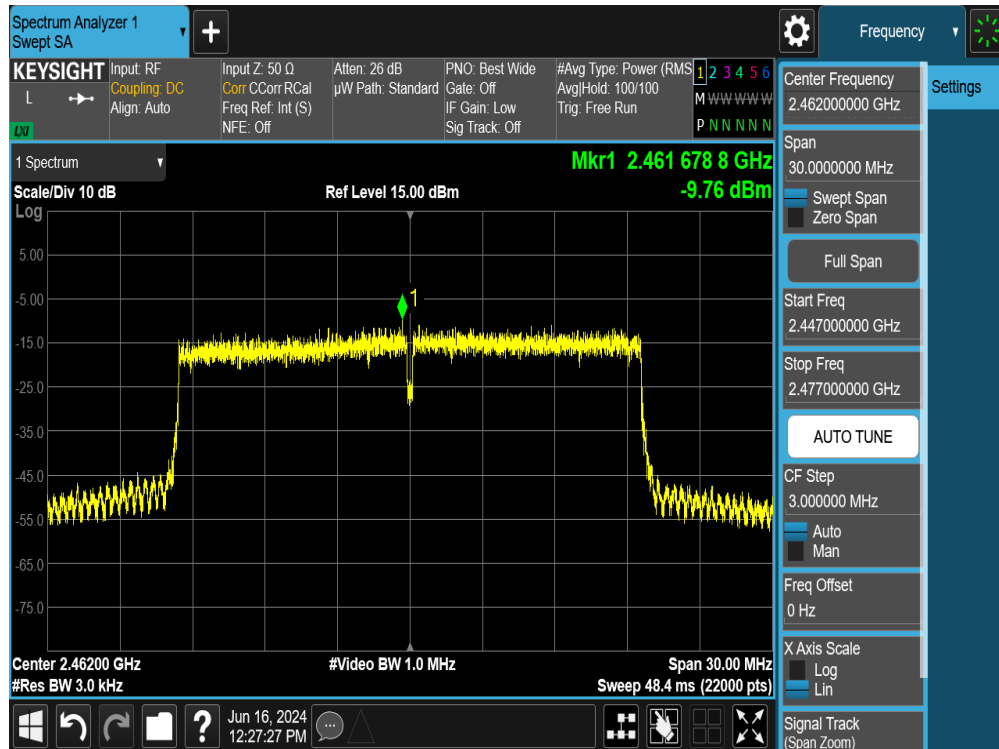


Plot 7-46. Power Spectral Density Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)



Plot 7-47. Power Spectral Density Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 48 of 112 |



Plot 7-48. Power Spectral Density Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 49 of 112 |



Note:

Per ANSI C63.10-2013 Section 14.3.1, the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 2412MHz the average conducted power spectral density was measured to be -5.99 dBm for Antenna 1 and -3.29 dBm for Antenna 2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(-5.99 \text{ dBm} + (-3.29) \text{ dBm}) = (0.25 \text{ mW} + 0.47 \text{ mW}) = 0.72 \text{ mW} = -1.42 \text{ dBm}$$

| | | | |
|------------------------------------------------|-----------------------------------------------|-------------------------------------|------------------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 50 of 112 |

7.5 Conducted Band Edge Emissions

Test Overview and Limit

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, tone configurations, and RU indices were investigated to determine the worst-case configuration. For the following out of band conducted emissions plots at the band edge, the EUT was set to a data rate of MCS0 in 802.11ax mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

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 = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
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.



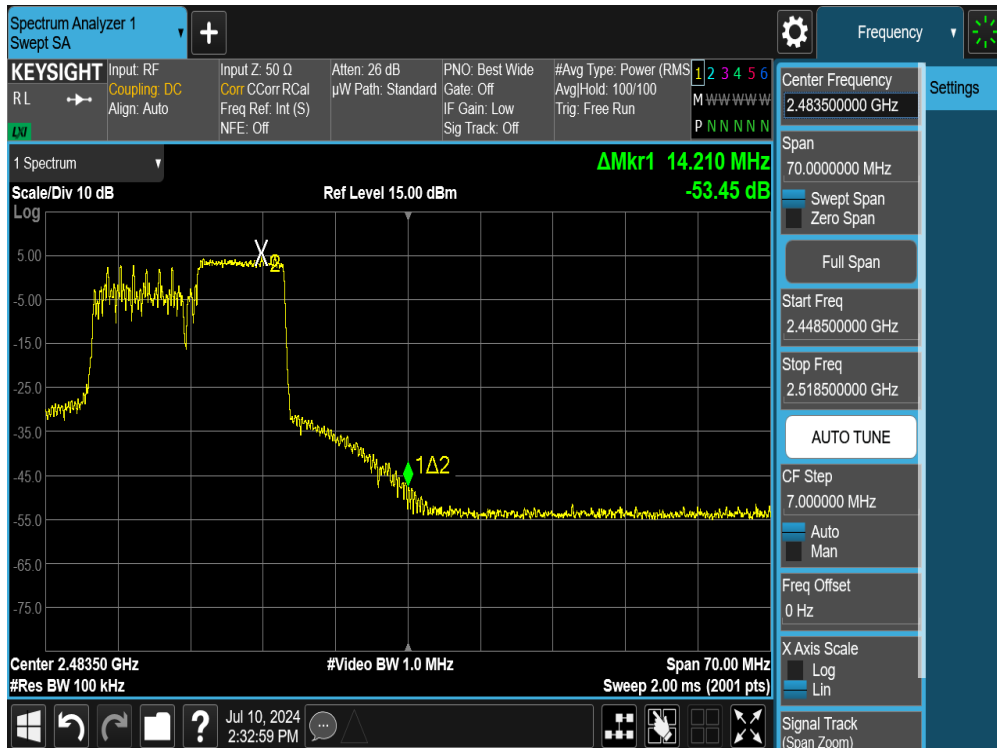
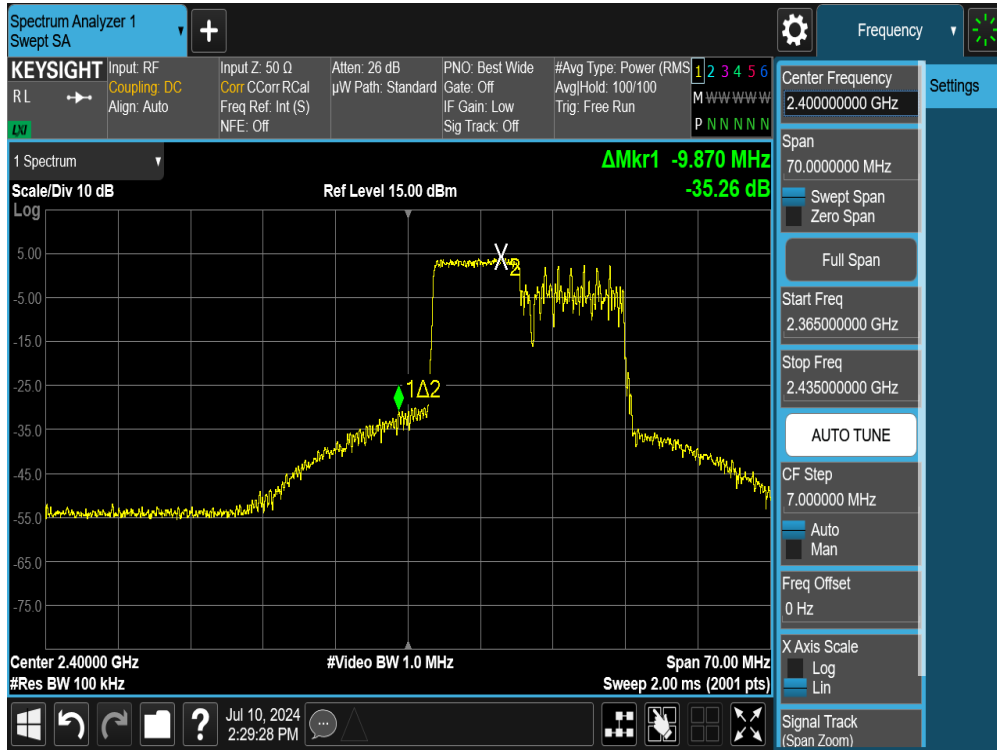
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

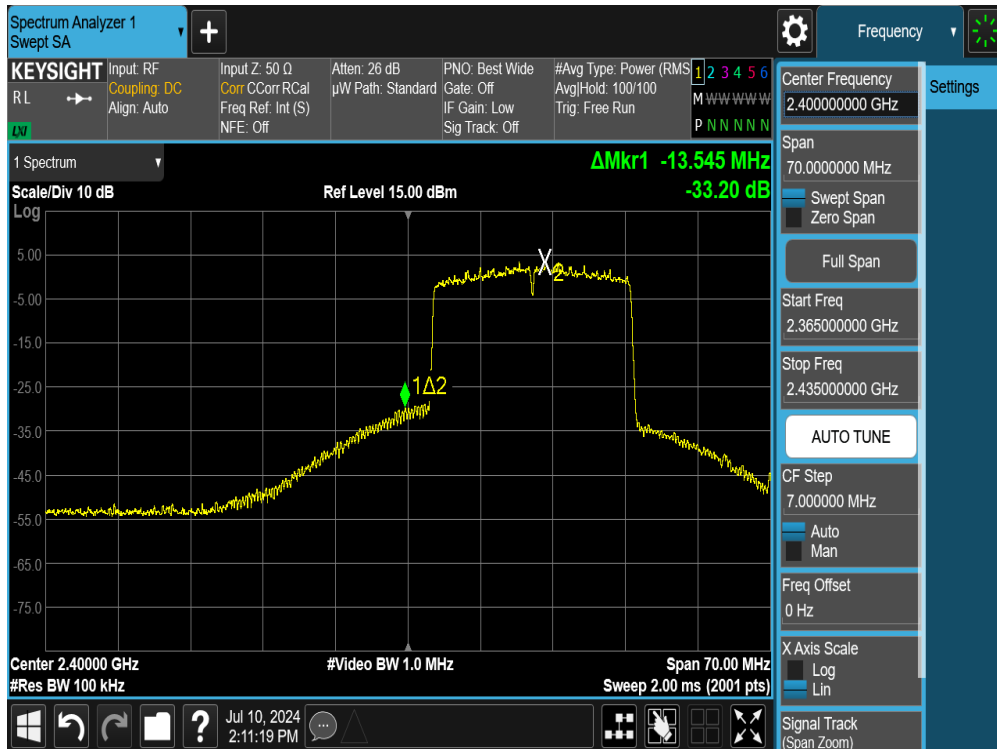
None.

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 51 of 112 |

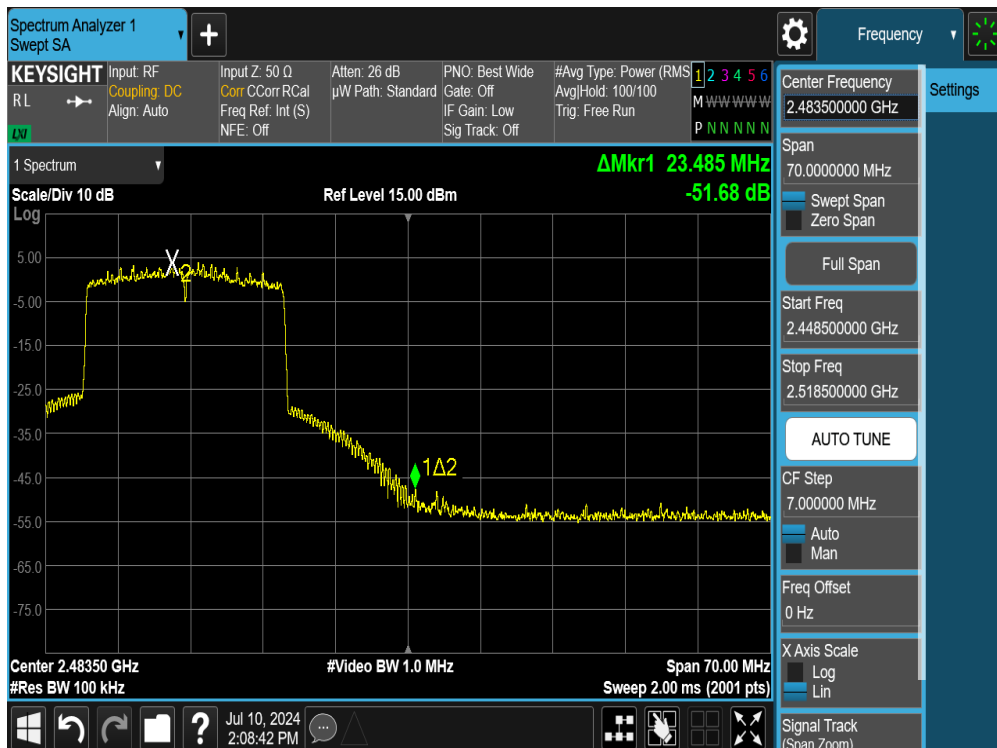
7.5.1 SISO Antenna-1 Conducted Band Edge Emissions



| MEASUREMENT REPORT (CERTIFICATION) | | | Approved by: Technical Manager |
|-----------------------------------------|----------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 52 of 112 |
| Test Report S/N: 1M2405140039-11.A3L | | | |



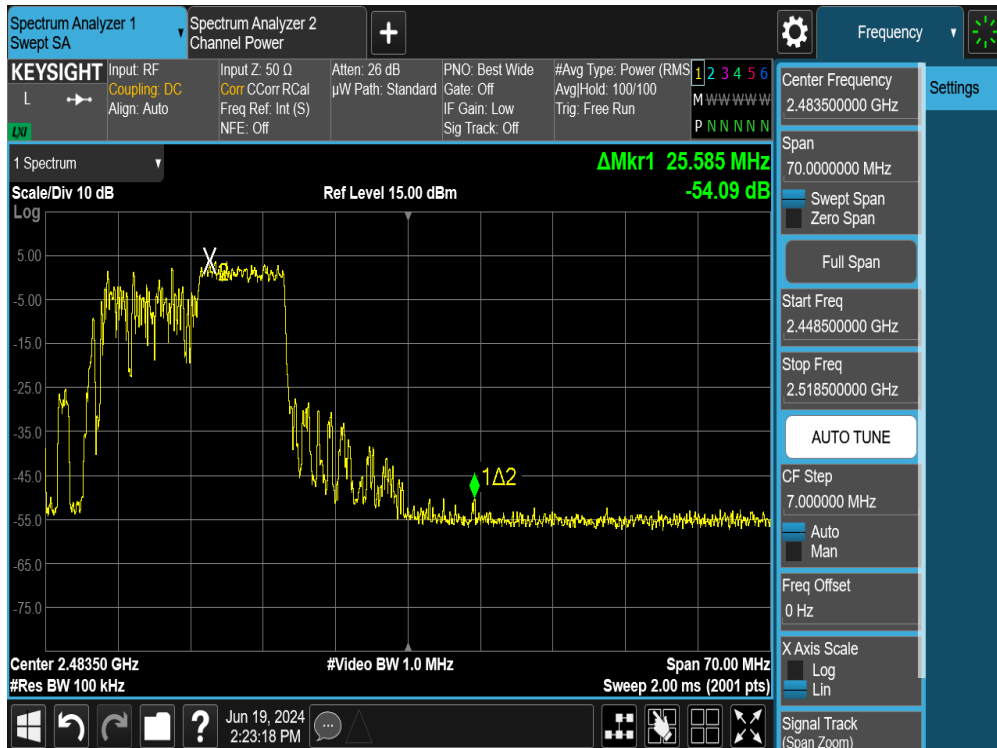
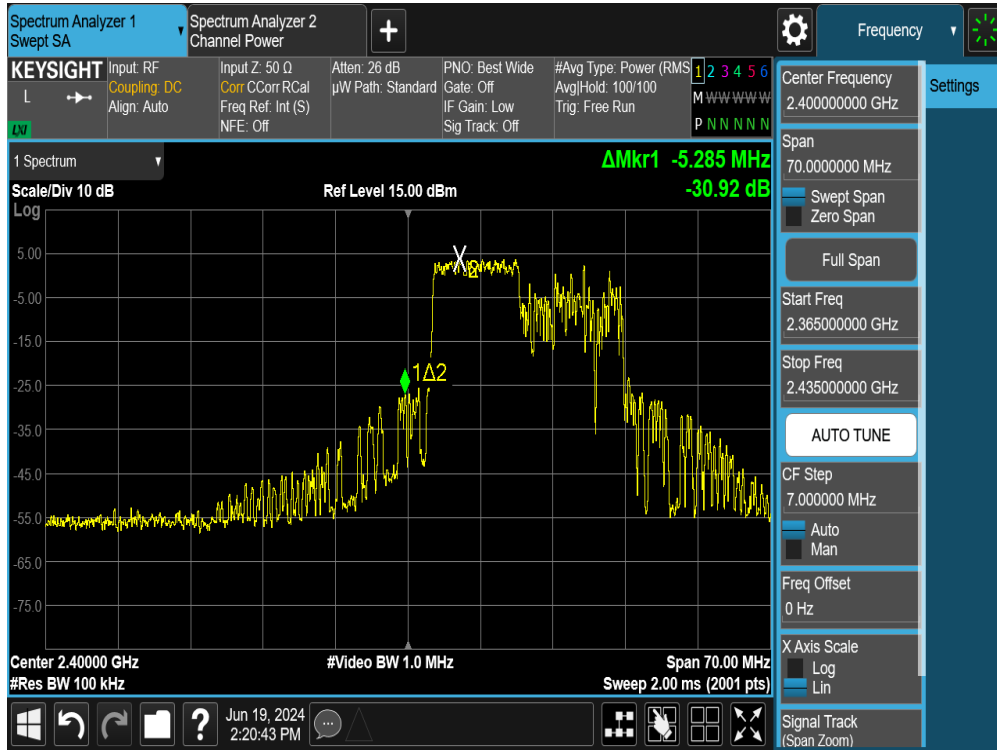
Plot 7-51. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)



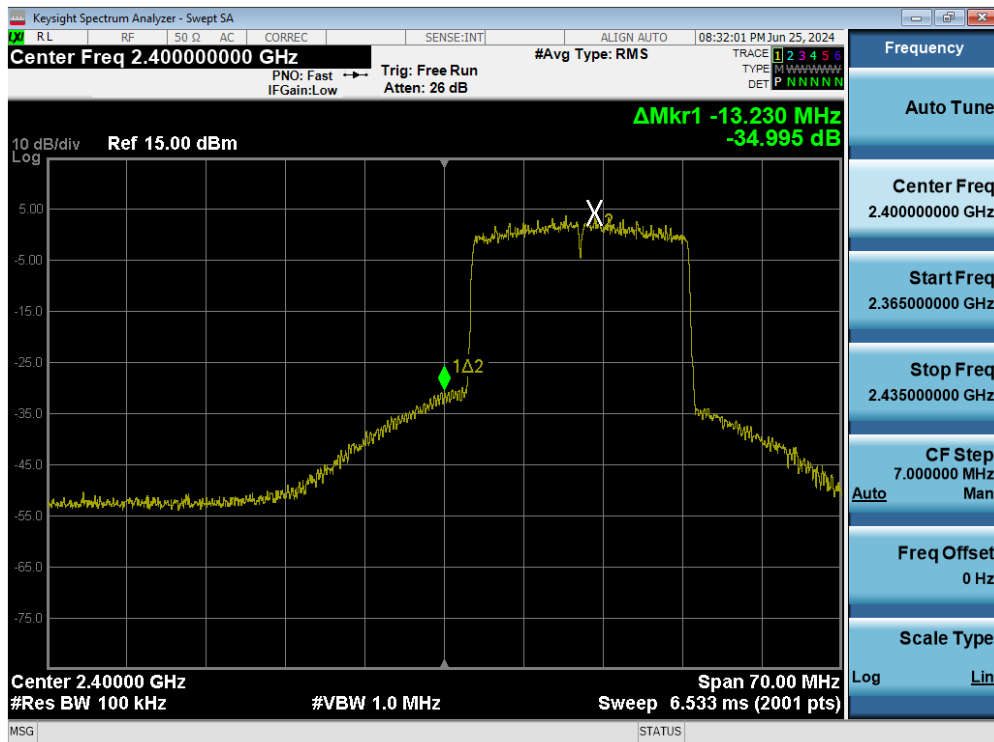
Plot 7-52. Band Edge Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 53 of 112 |

7.5.2 SISO Antenna-2 Conducted Band Edge Emissions



| FCC ID: A3LSMX828U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|-----------------------------------------|----------------------------------------|------------------------------------|----------------|-----------------------------------|
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 54 of 112 | |



Plot 7-55. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)



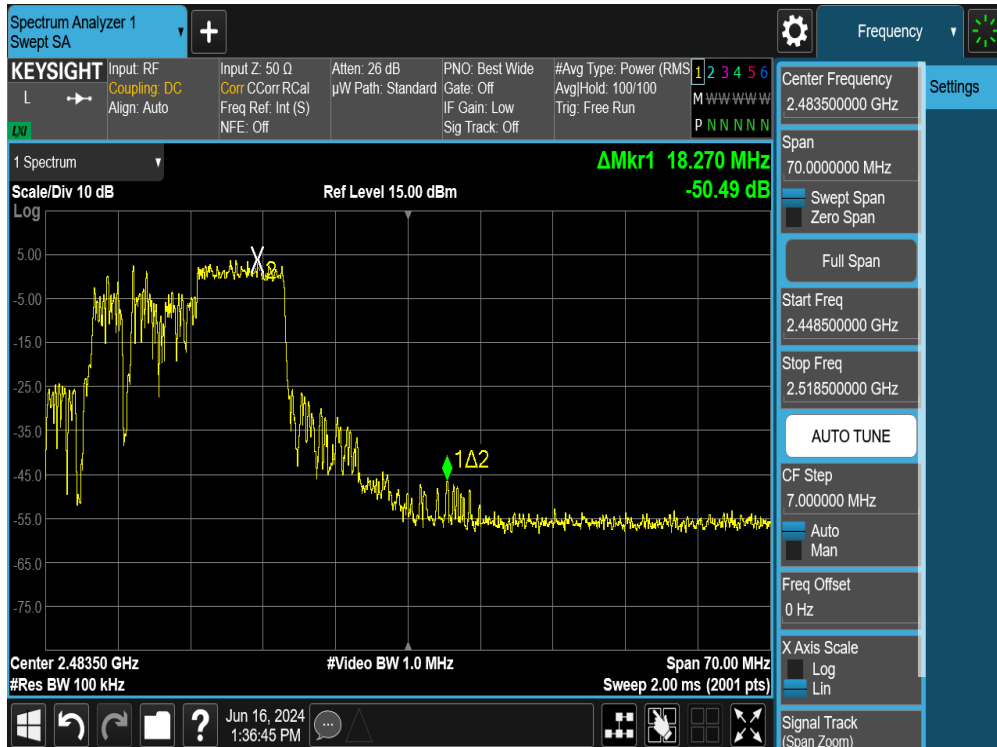
Plot 7-56. Band Edge Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)

| | | | |
|-----------------------------------------|----------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 55 of 112 |

7.5.3 MIMO Antenna-1 Conducted Band Edge Emissions

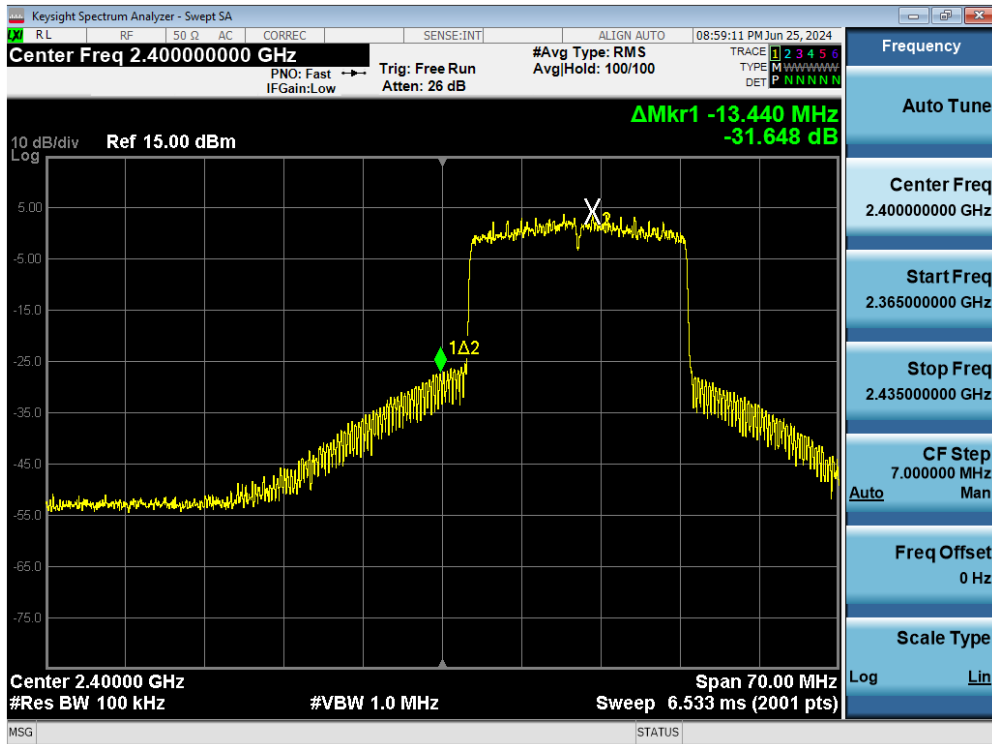


Plot 7-57. Band Edge Plot MIMO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 1)

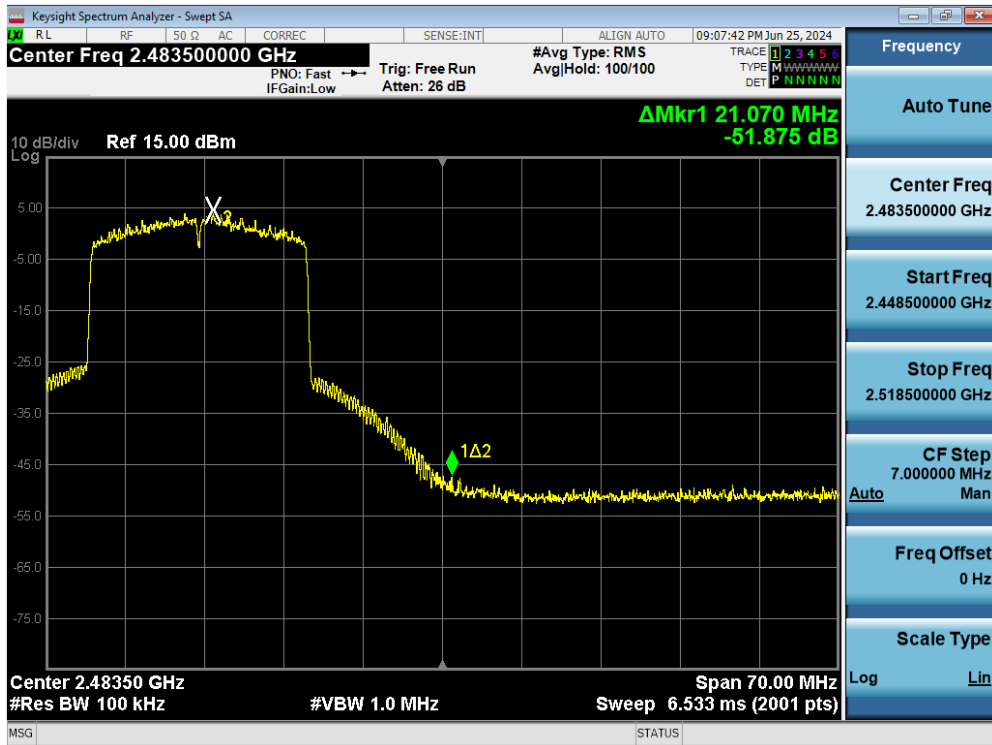


Plot 7-58. Band Edge Plot MIMO ANT1 (802.11ax OFDMA – 106 Tones – Ch. 11)

| | | | |
|-----------------------------------------|----------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 56 of 112 |



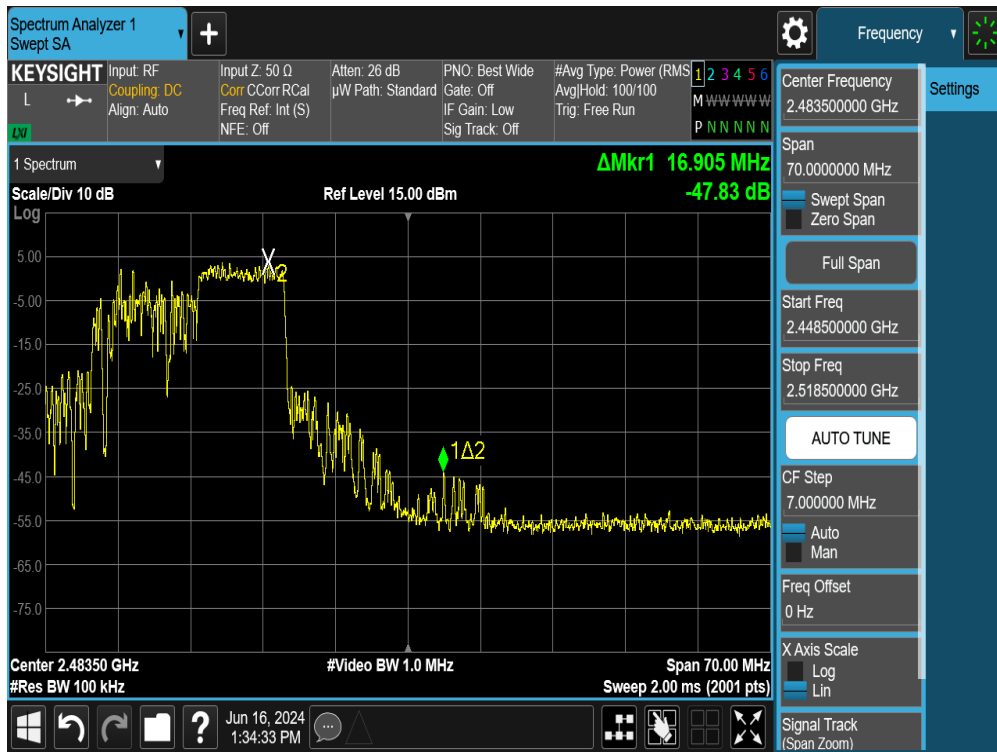
Plot 7-59. Band Edge Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)



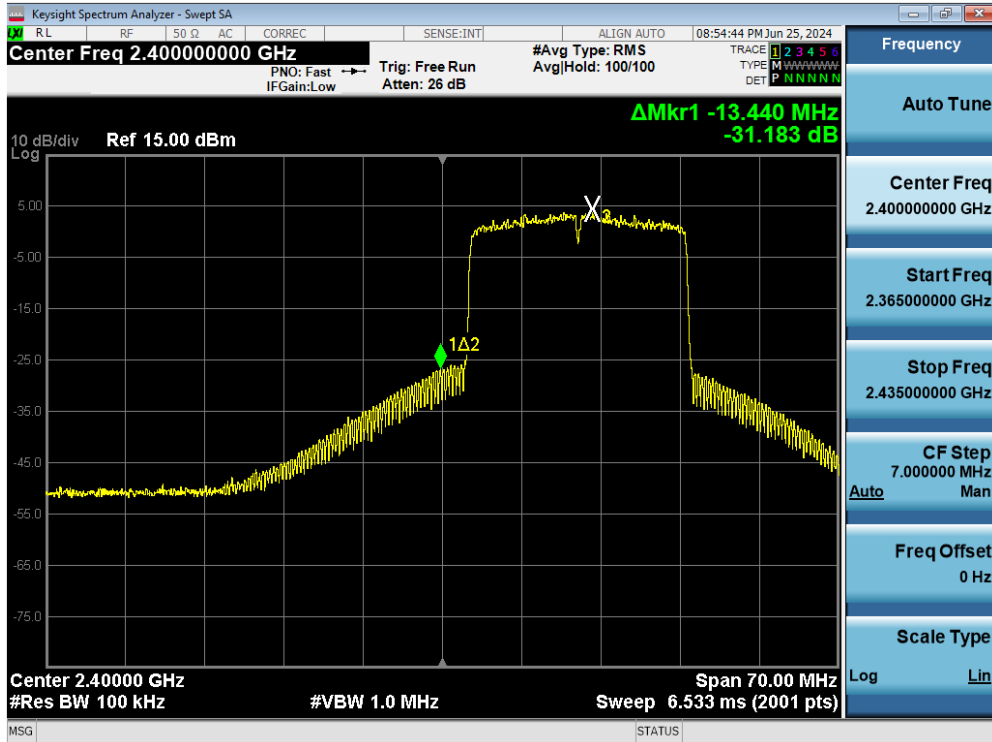
Plot 7-60. Band Edge Plot MIMO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 57 of 112 |

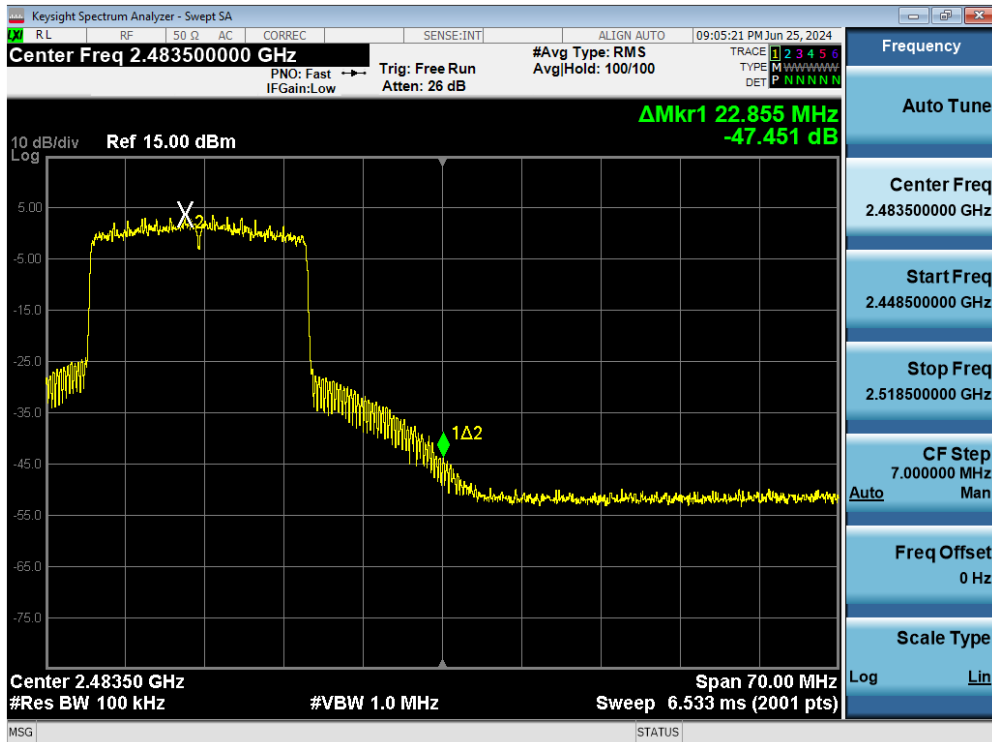
7.5.4 MIMO Antenna-2 Conducted Band Edge Emissions



| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 58 of 112 |



Plot 7-63. Band Edge Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)



Plot 7-64. Band Edge Plot MIMO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)

| | | | |
|-----------------------------------------|----------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 59 of 112 |

7.6 Conducted Spurious Emissions

Test Overview and Limit

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, tone configurations, and RU indices were investigated to determine the worst-case configuration. For the following out of band conducted emissions plots, the EUT was set to a data rate of MCS0 in 802.11ax mode as this setting produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 30 dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11.3 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
ANSI C63.10-2013 – Section 14.3.3

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
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 7-5. Test Instrument & Measurement Setup

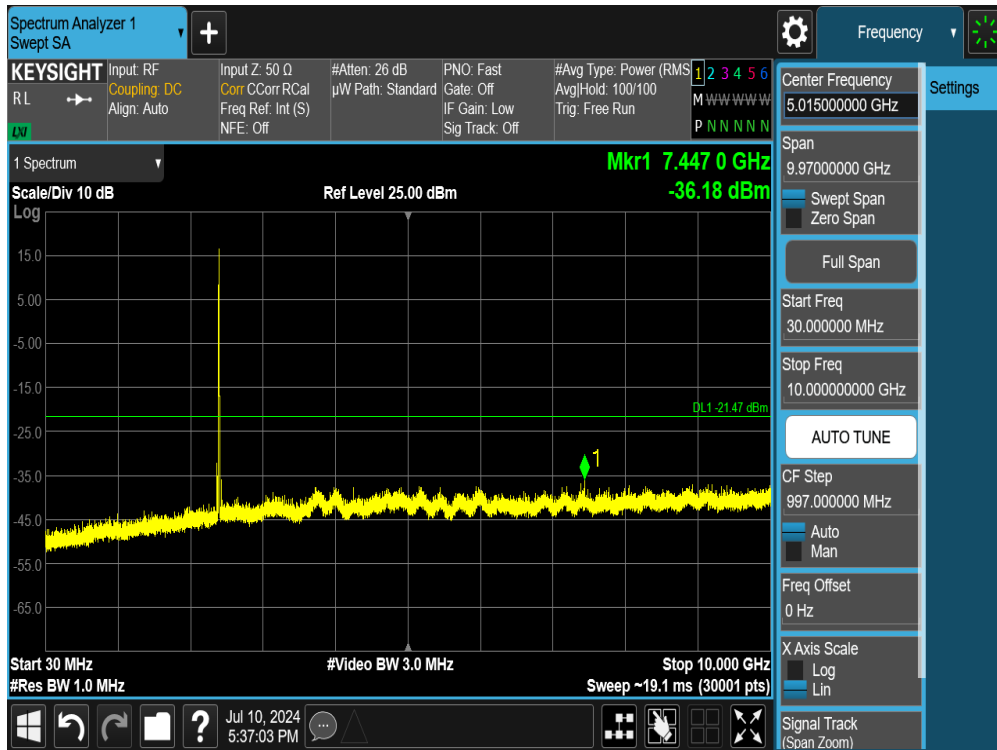
| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 60 of 112 |

Test Notes

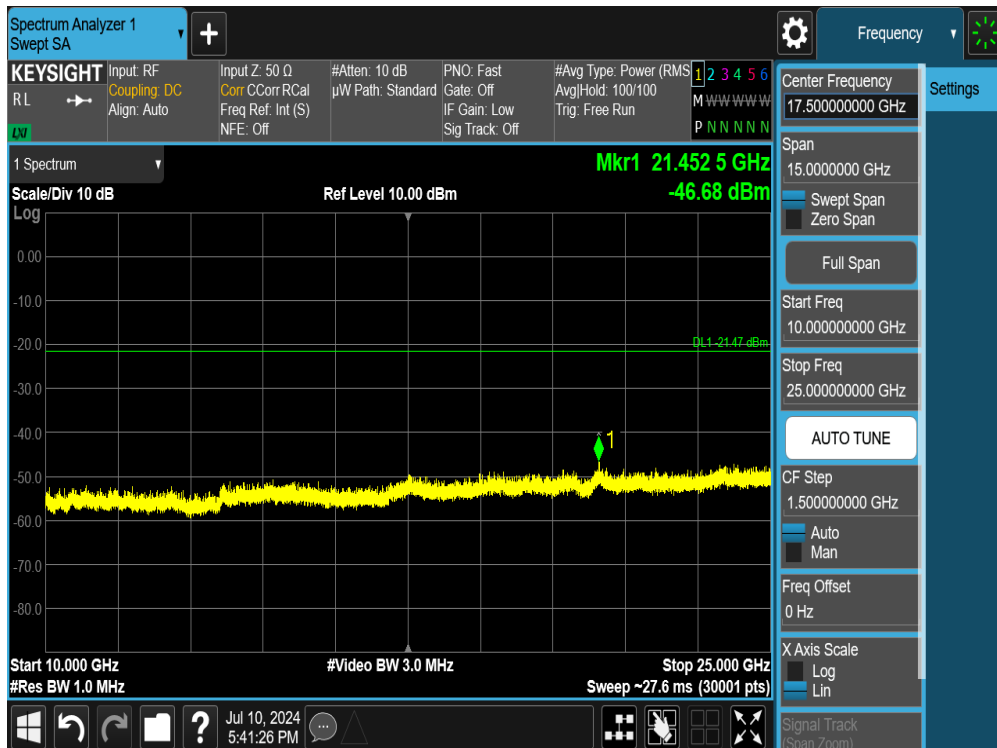
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30 dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30 dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 Section 14.3.3, it was unnecessary to show compliance through the summation of test results of the individual outputs.

| | | | |
|------------------------------------------------|-----------------------------------------------|-------------------------------------|------------------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 61 of 112 |

7.6.1 SISO Antenna-1 Conducted Spurious Emission

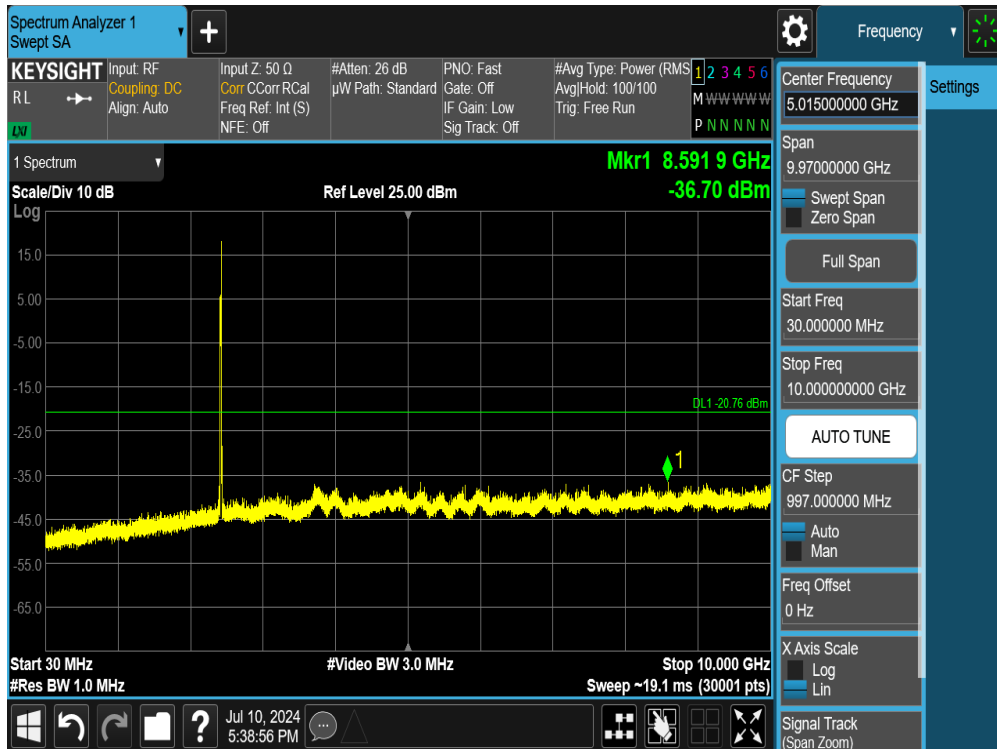


Plot 7-65. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 1)

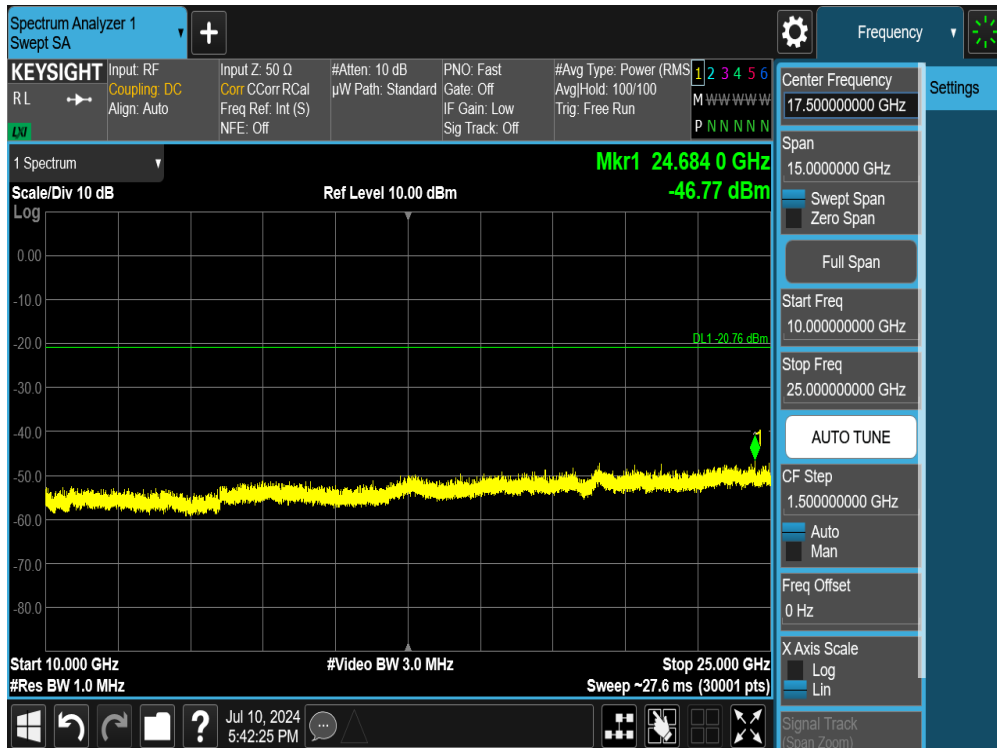


Plot 7-66. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 1)

| FCC ID: A3LSMX828U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|-----------------------------------------|----------------------------------------|---------------------------------------|----------------|-----------------------------------|
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 62 of 112 | |

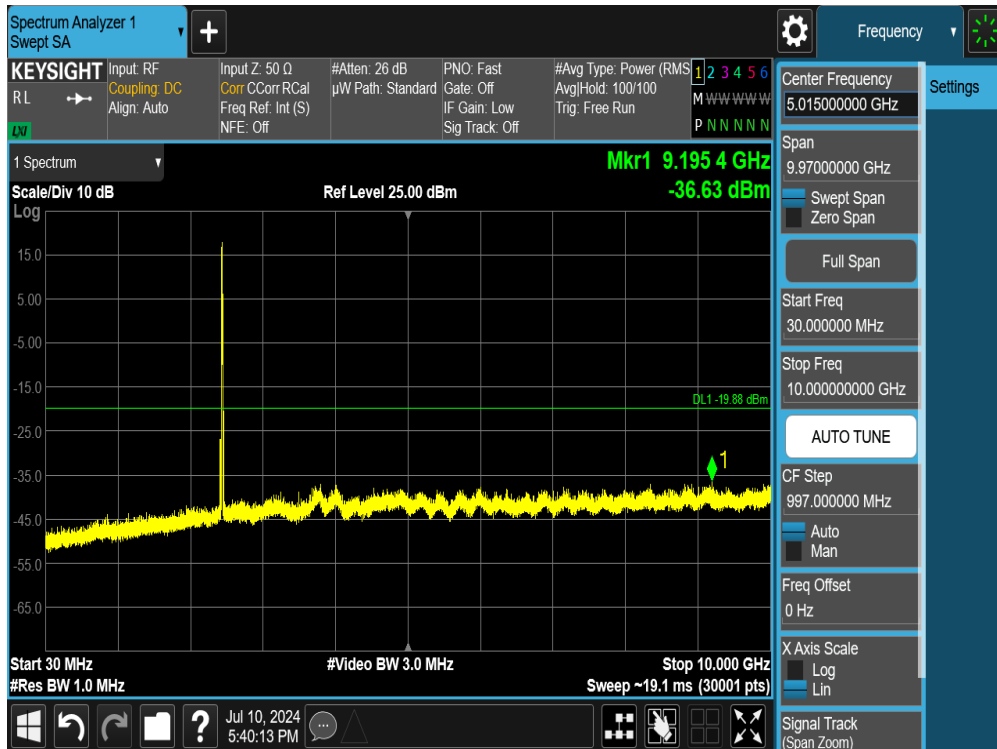


Plot 7-67. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 6)

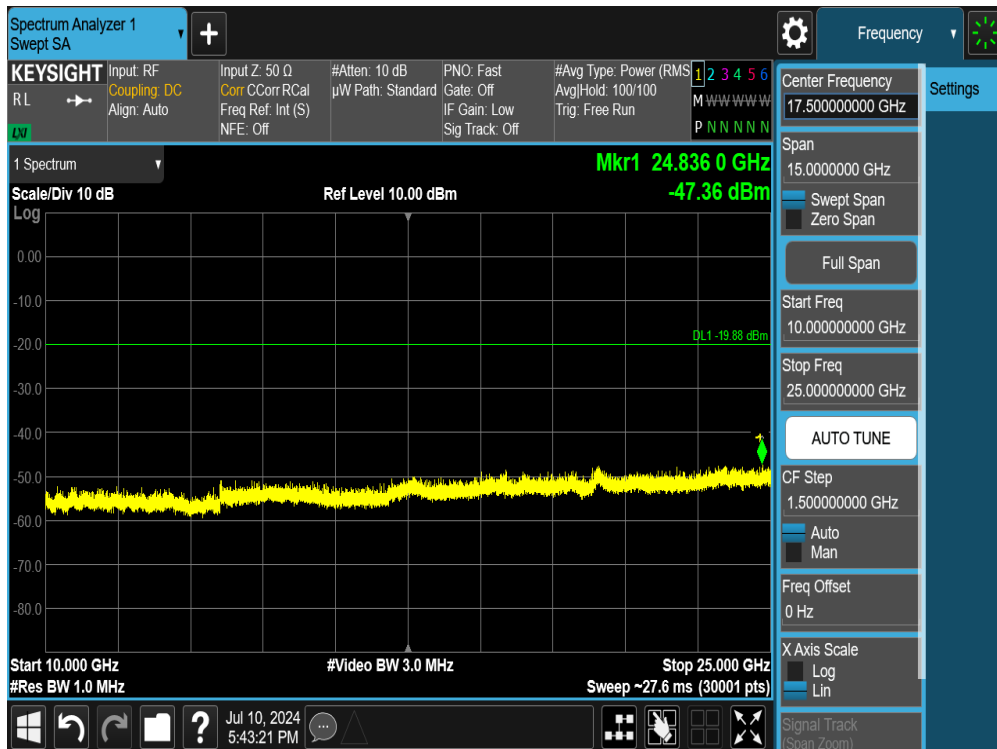


Plot 7-68. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 6)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 63 of 112 |

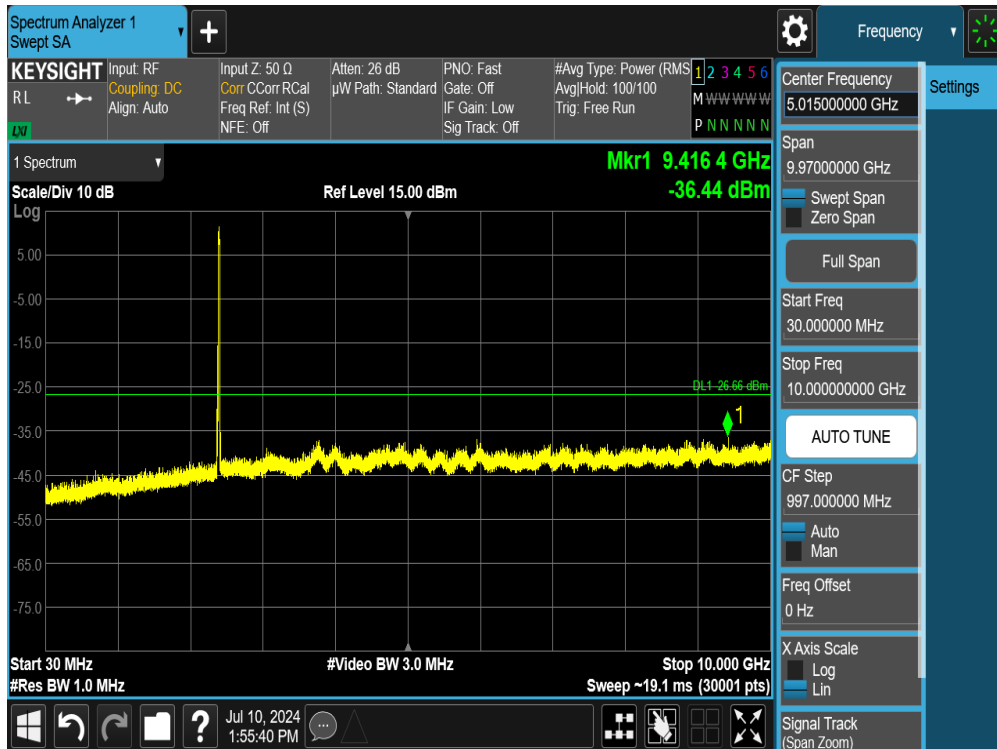


Plot 7-69. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 11)

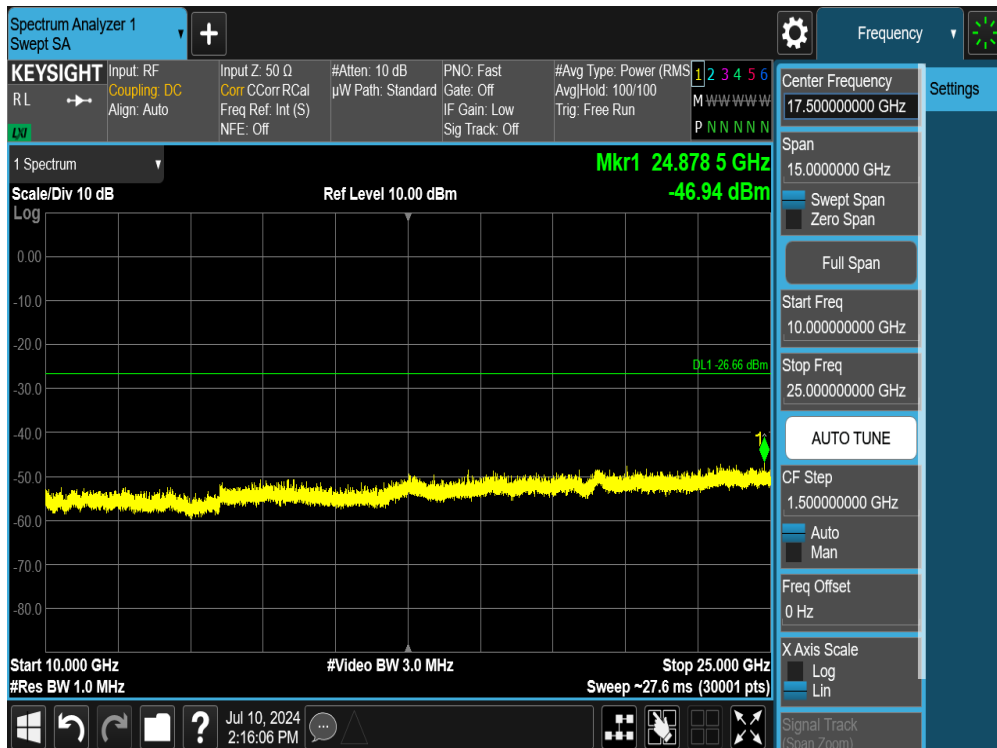


Plot 7-70. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 26 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 64 of 112 |

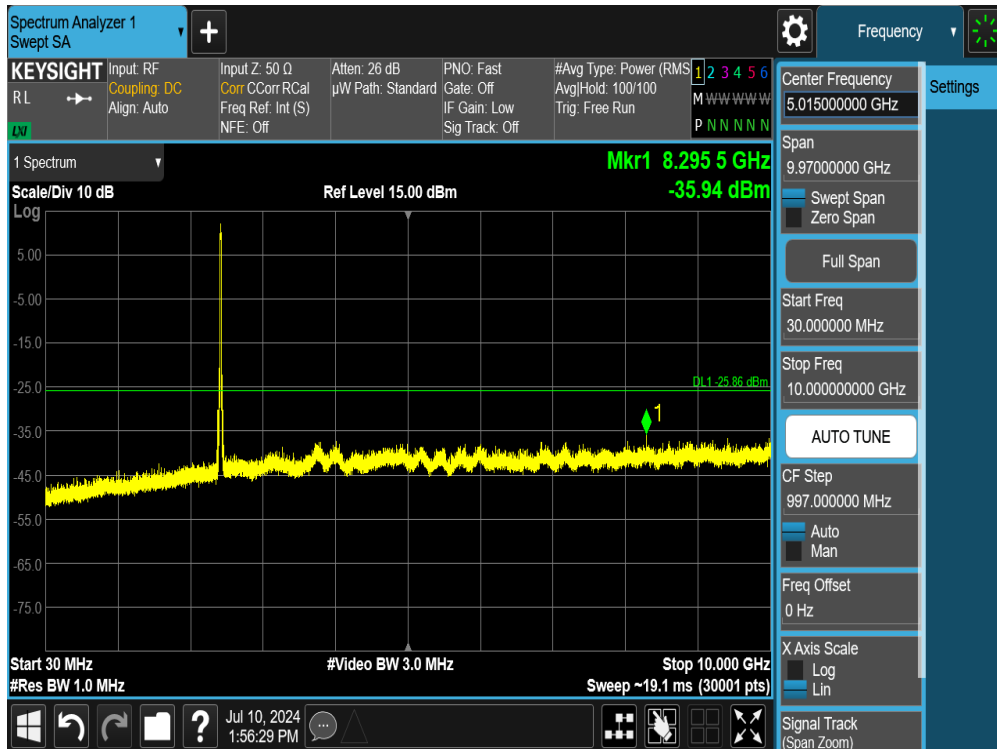


Plot 7-71. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)

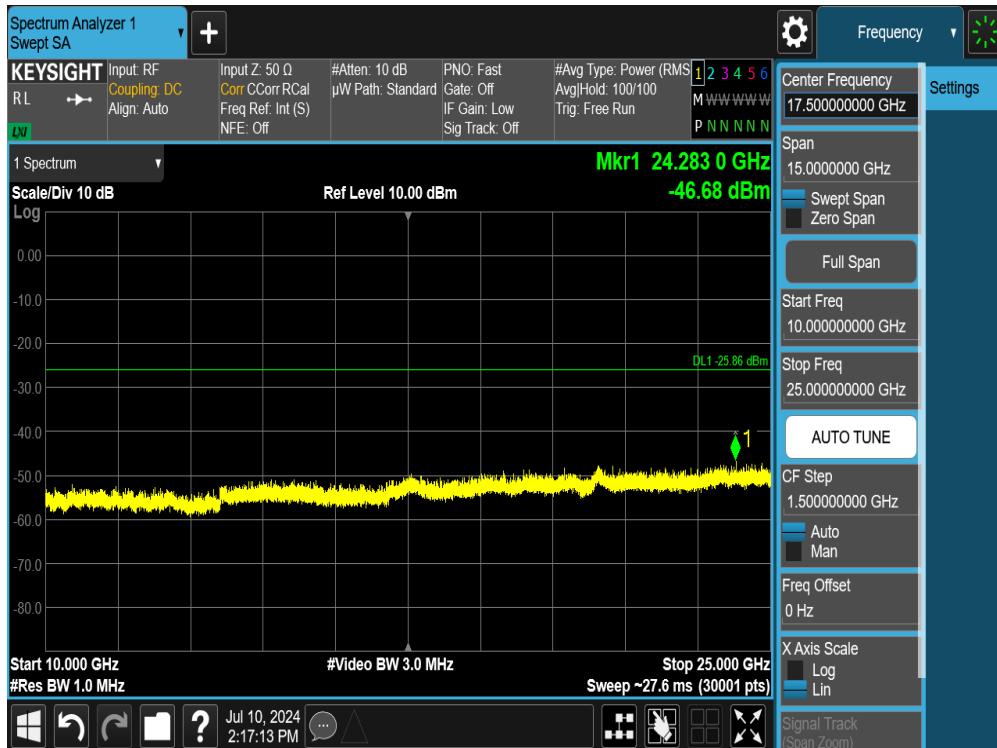


Plot 7-72. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 1)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 65 of 112 |

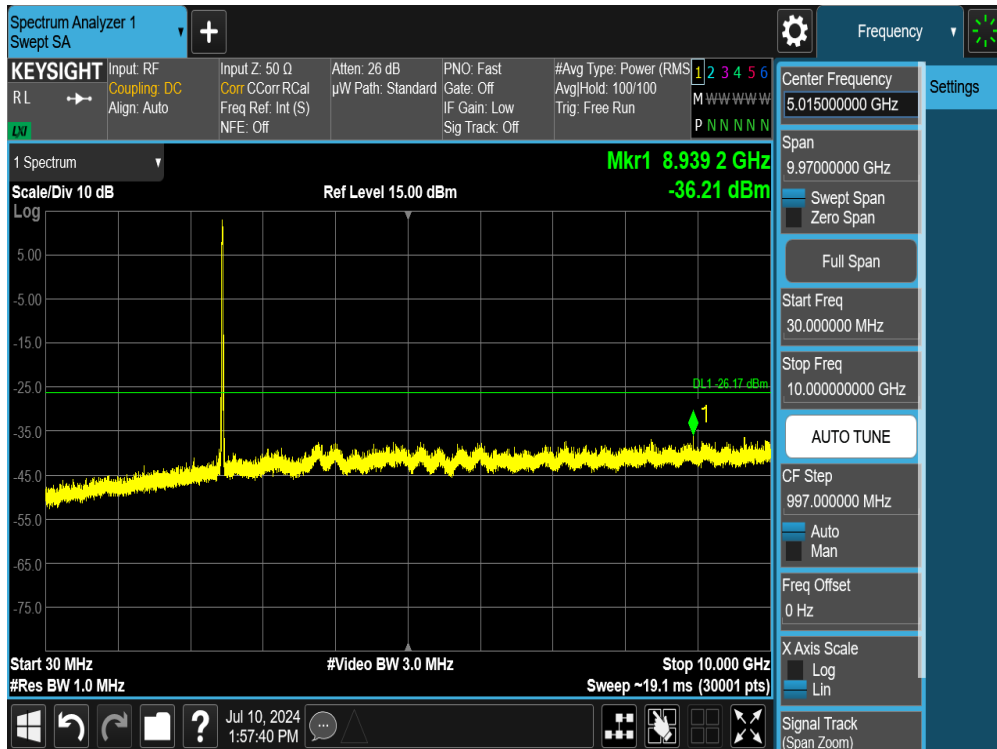


Plot 7-73. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)

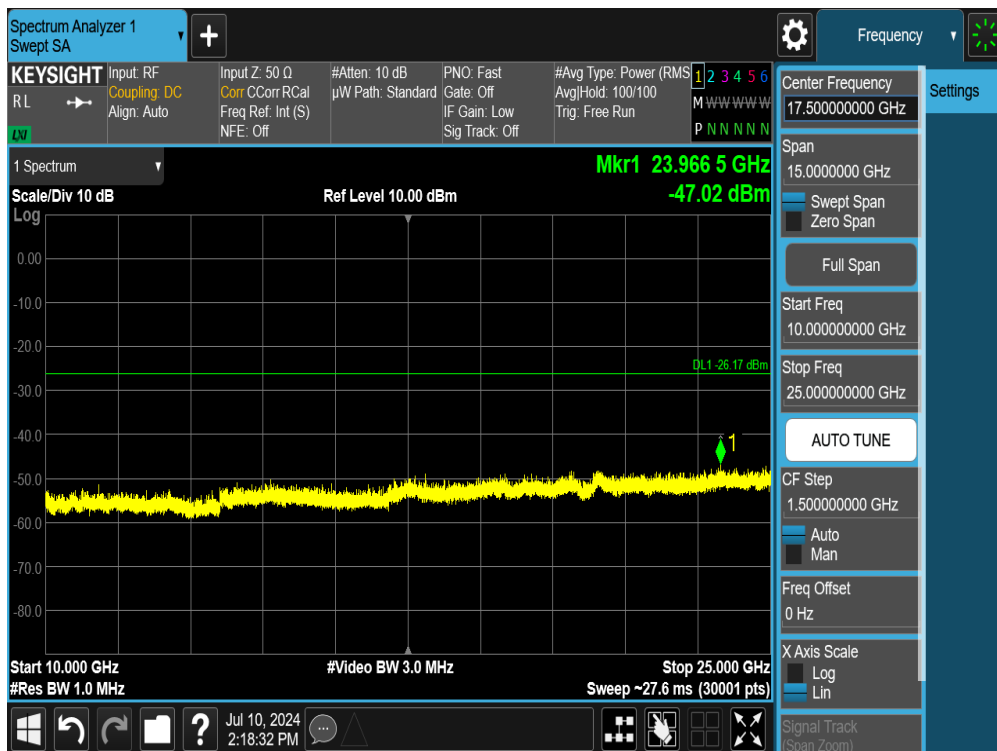


Plot 7-74. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 6)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 66 of 112 |



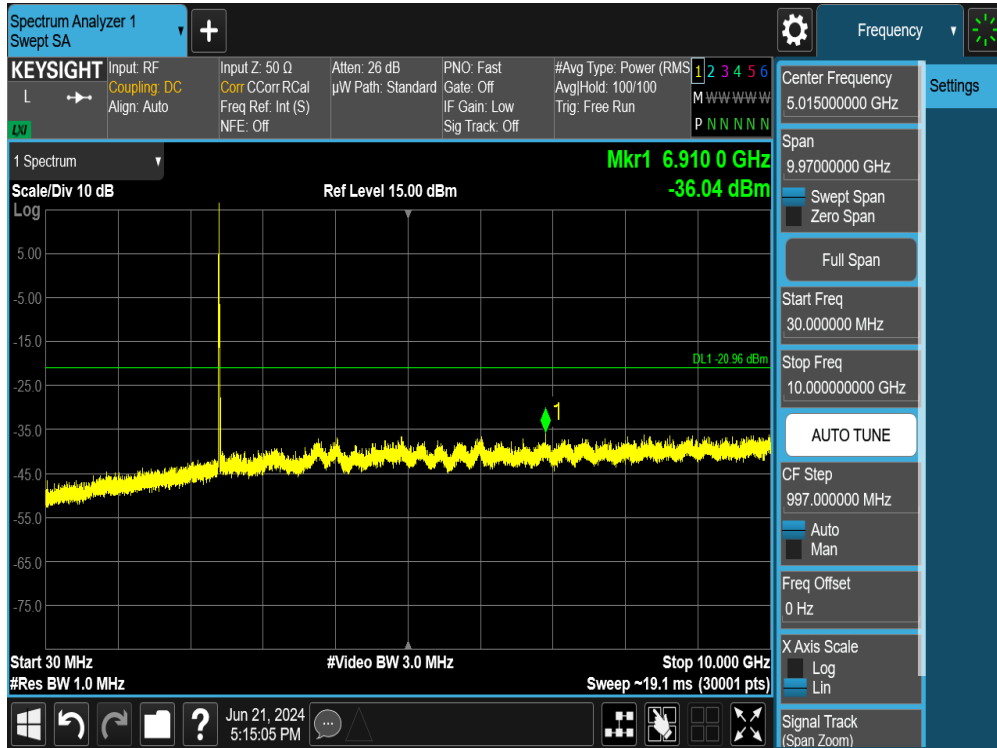
Plot 7-75. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)



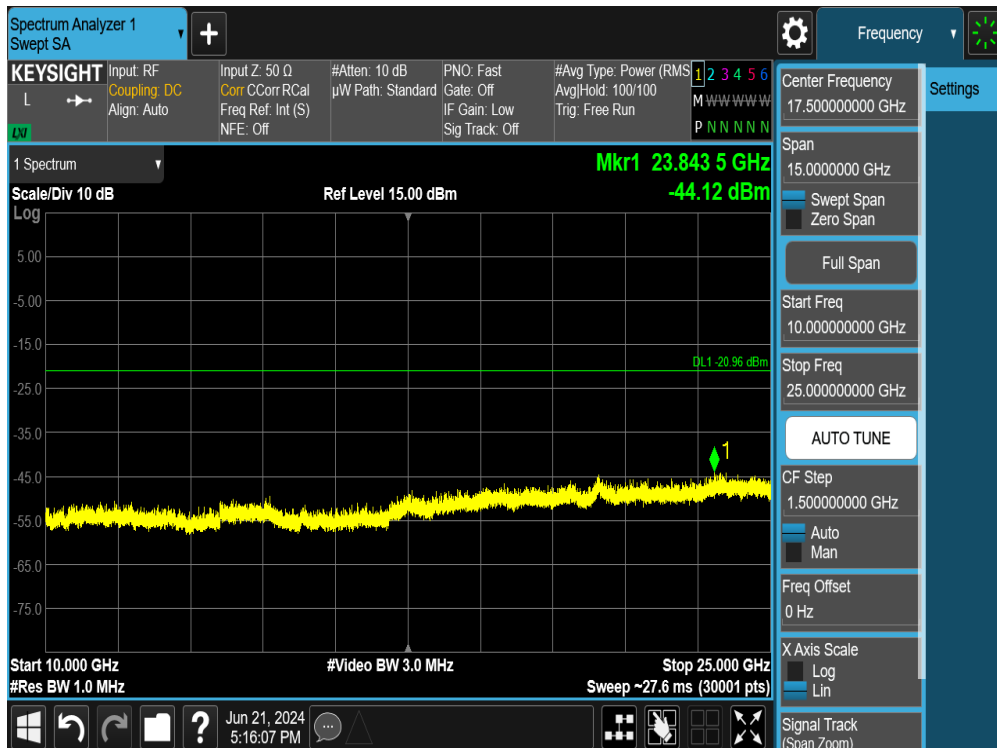
Plot 7-76. Conducted Spurious Plot SISO ANT1 (802.11ax OFDMA – 242 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 67 of 112 |

7.6.2 SISO Antenna-2 Conducted Spurious Emission

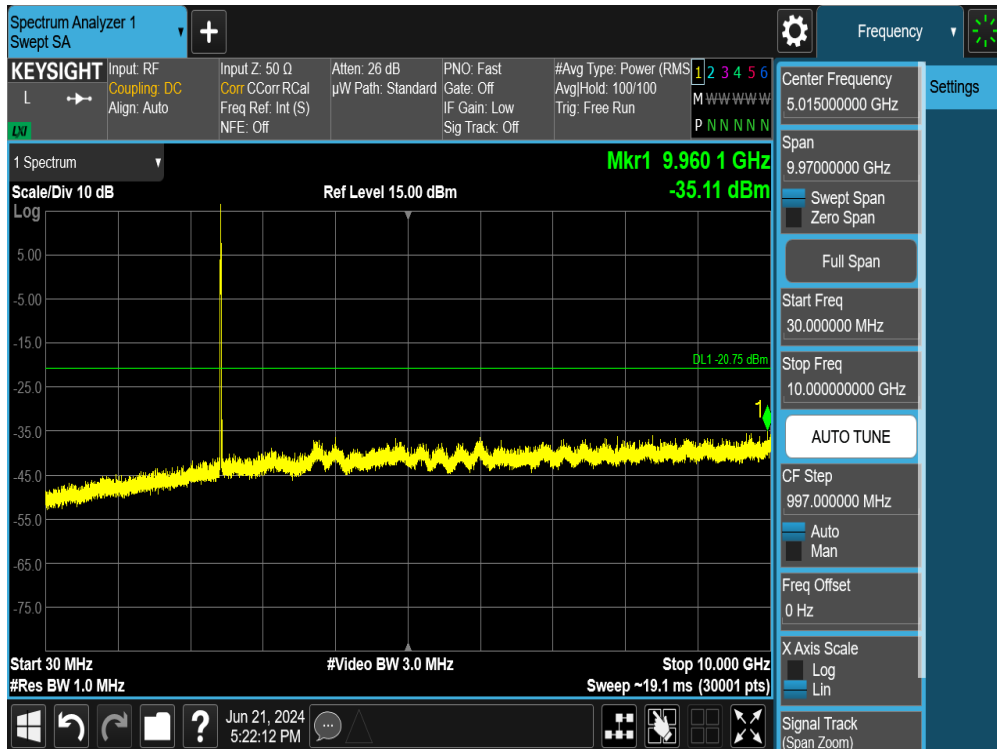


Plot 7-77. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 1)

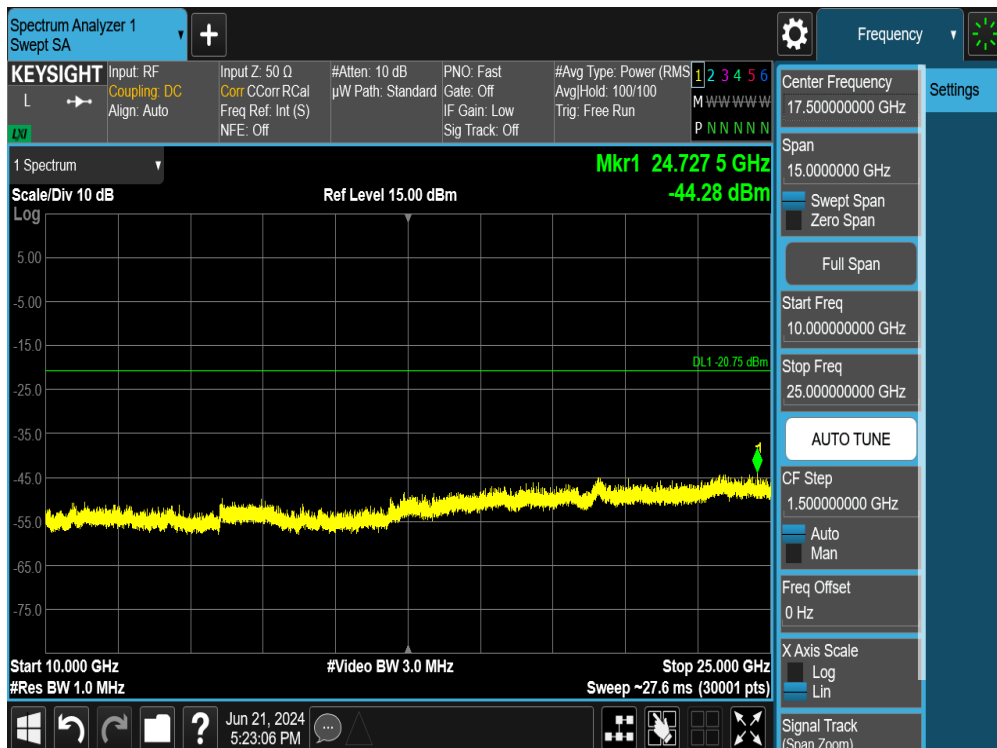


Plot 7-78. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 1)

| FCC ID: A3LSMX828U | | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
|-----------------------------------------|----------------------------------------|---------------------------------------|--|-----------------------------------|
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | | Page 68 of 112 |

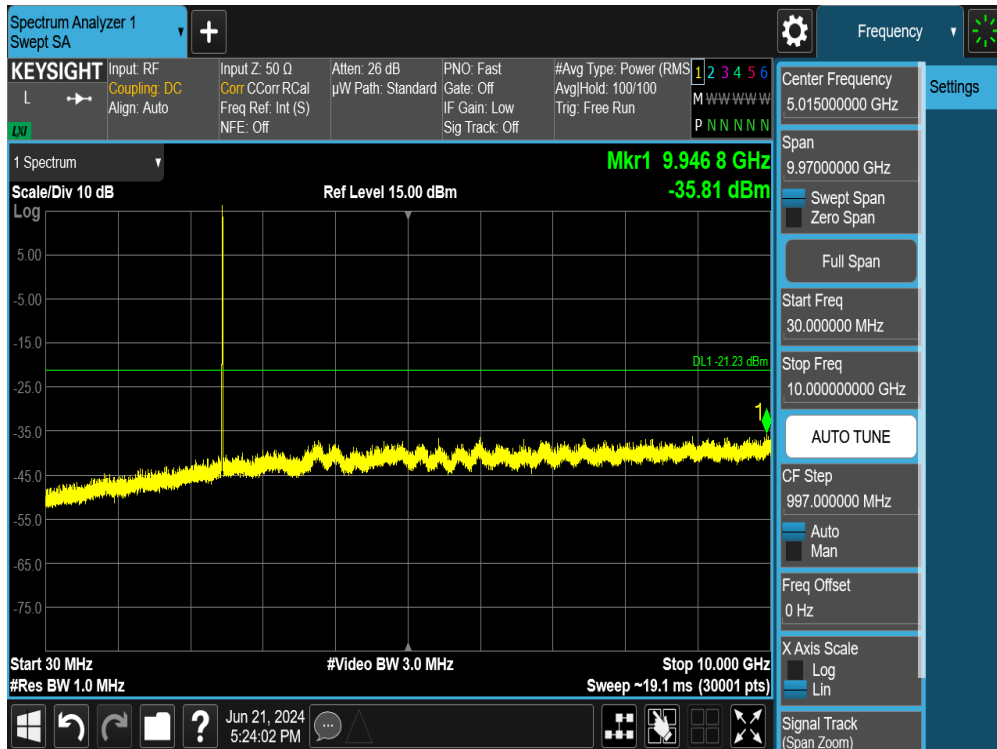


Plot 7-79. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6)

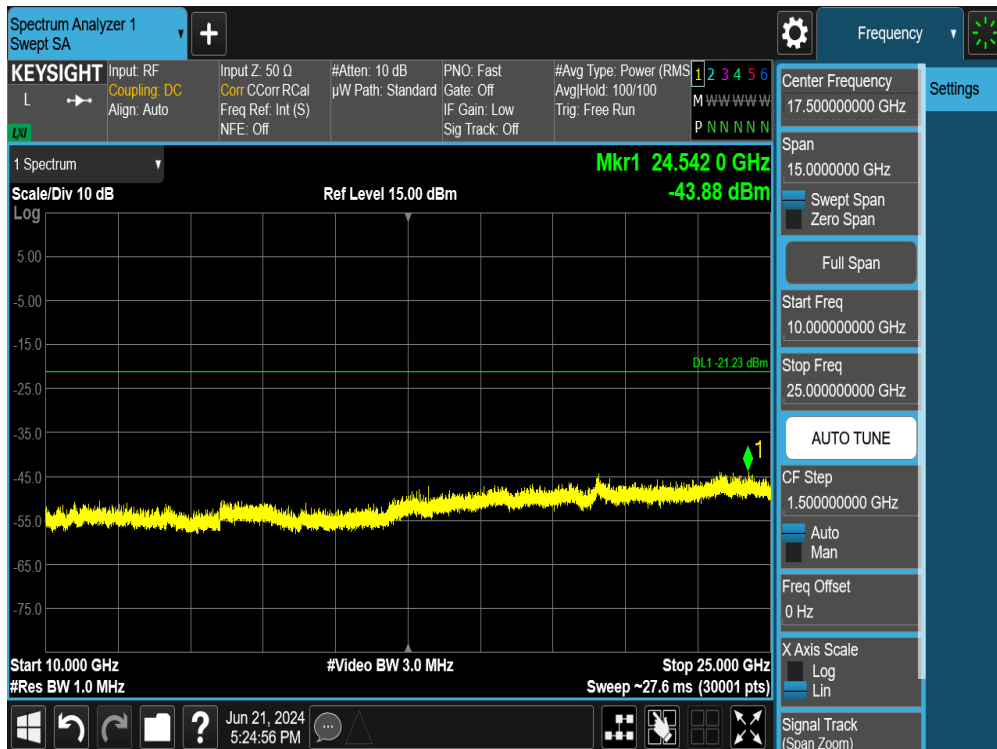


Plot 7-80. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 6)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 69 of 112 |

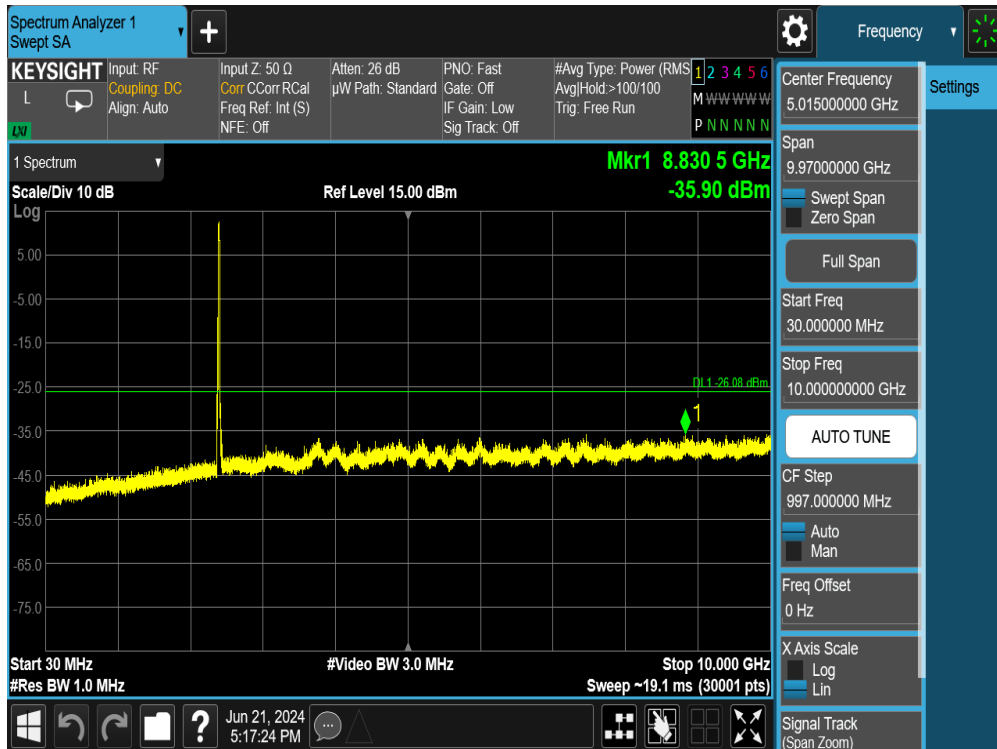


Plot 7-81. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11)

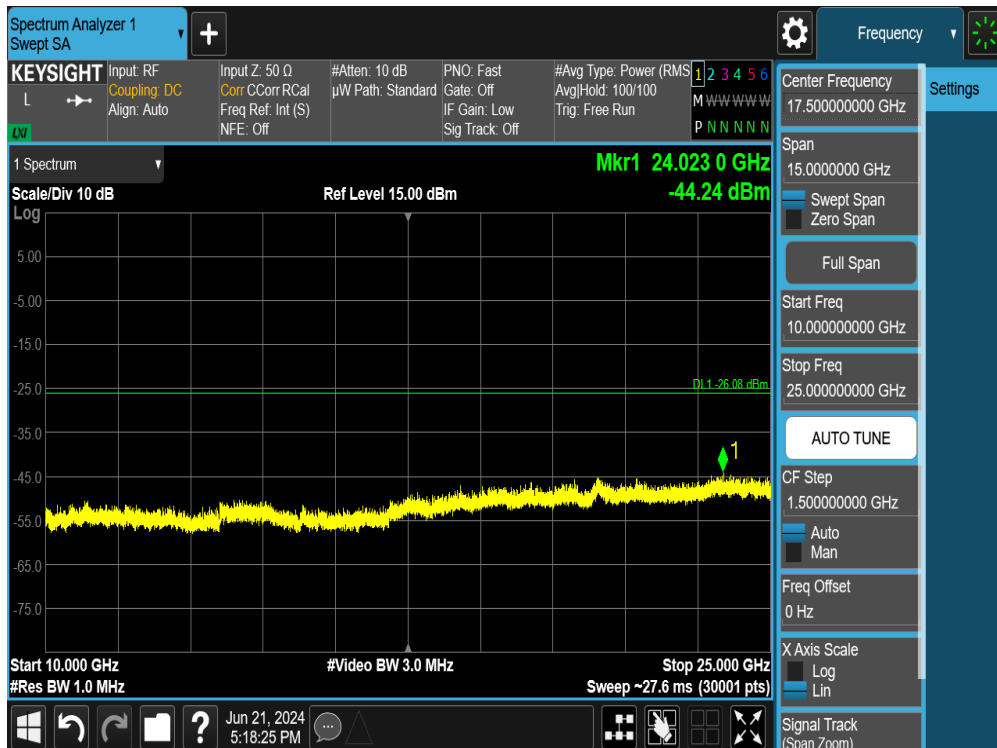


Plot 7-82. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 26 Tones – Ch. 11)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 70 of 112 |

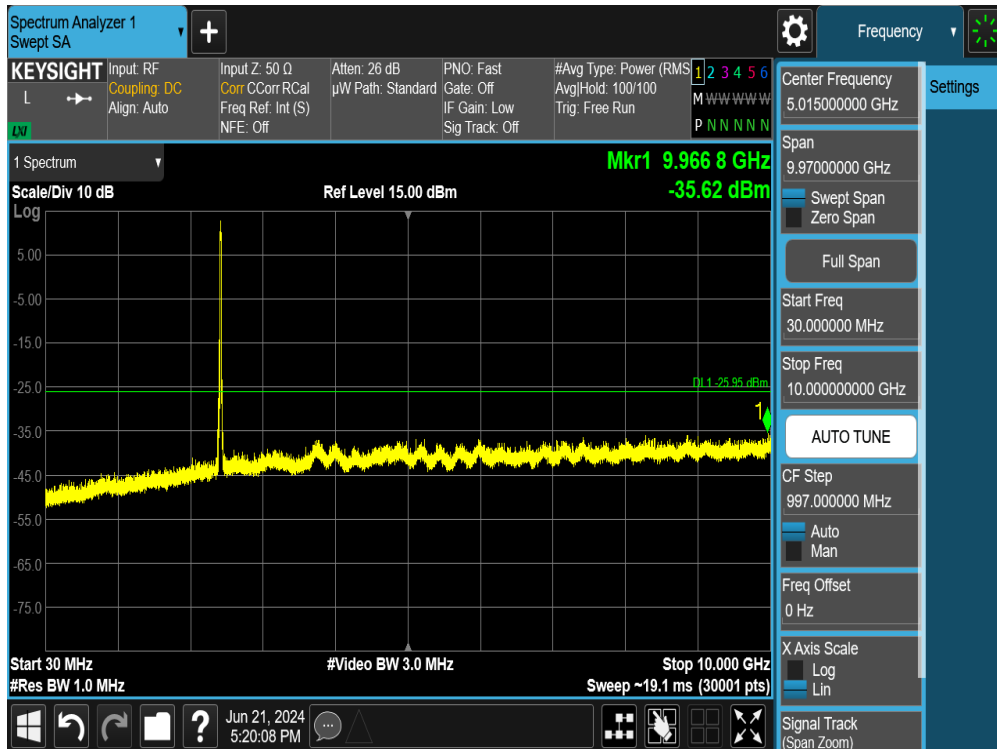


Plot 7-83. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)

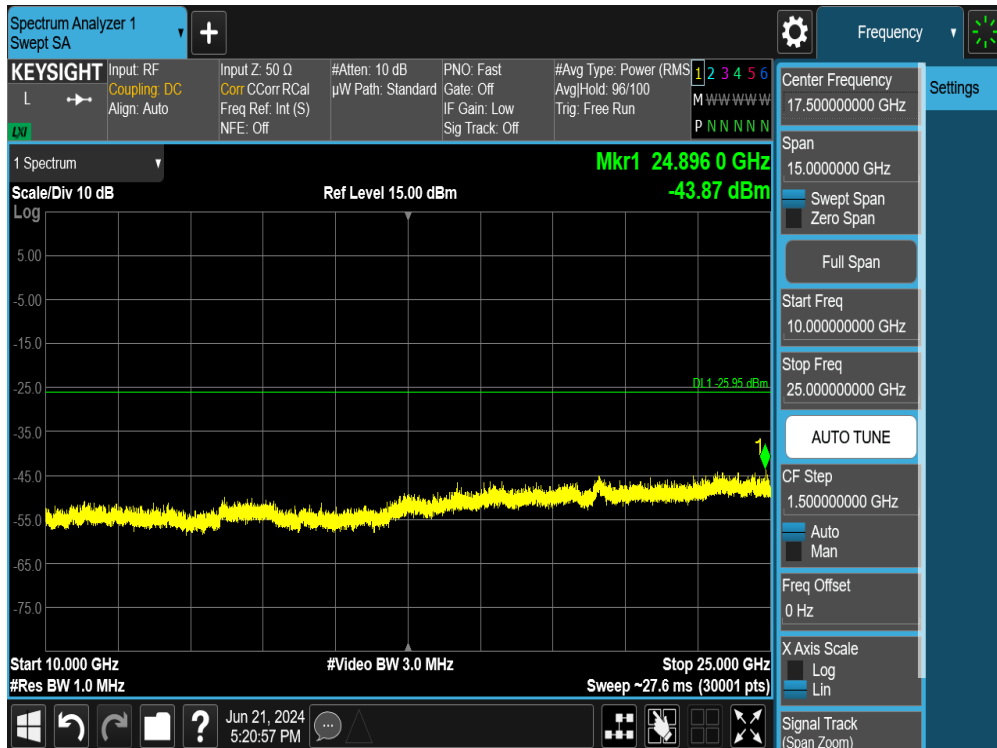


Plot 7-84. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 71 of 112 |



Plot 7-85. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)



Plot 7-86. Conducted Spurious Plot SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)

| | | | |
|-----------------------------------------|-----------------------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX828U | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Technical Manager |
| Test Report S/N: 1M2405140039-11.A3L | Test Dates: 06/10/2024 – 07/30/2024 | EUT Type: Portable Tablet | Page 72 of 112 |