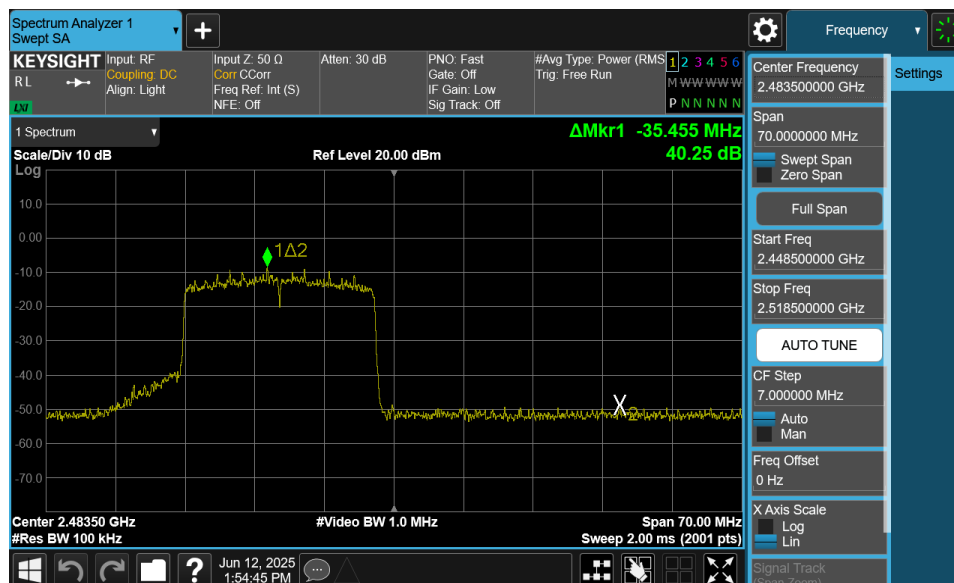
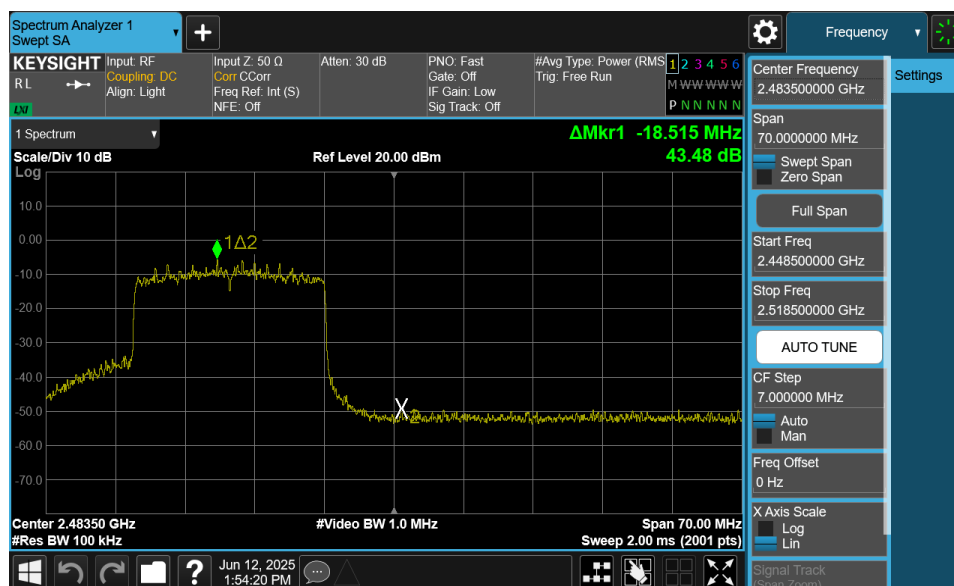
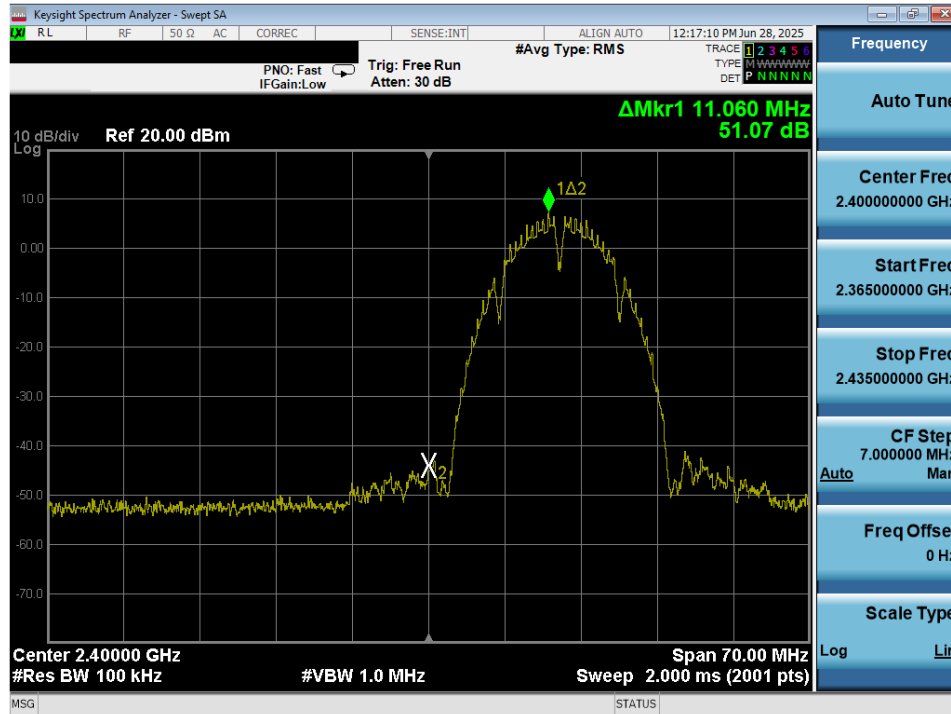
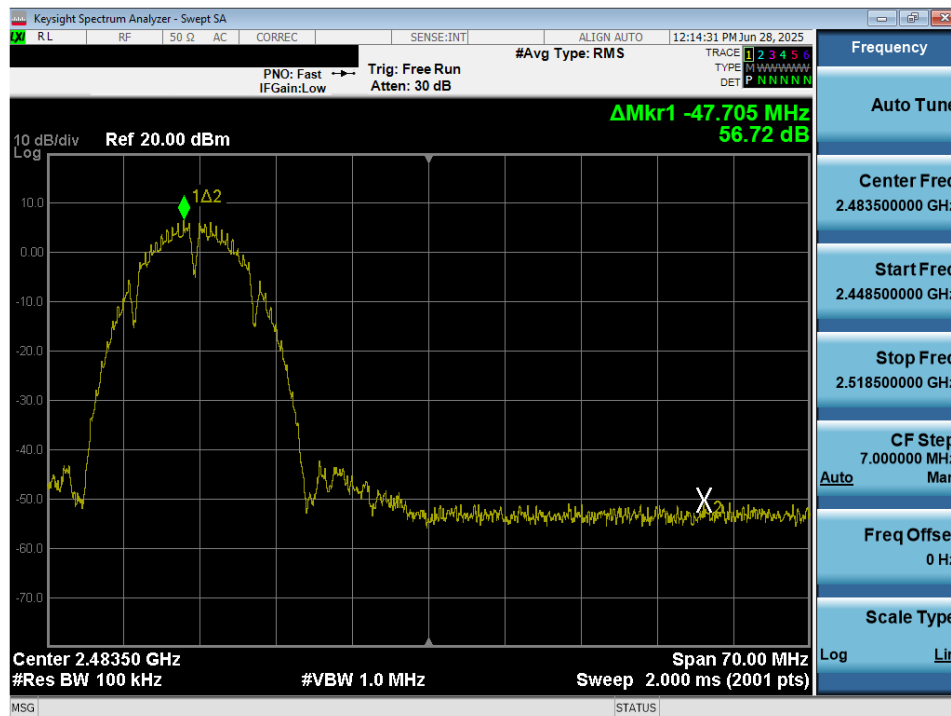




|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 58 of 97                     |

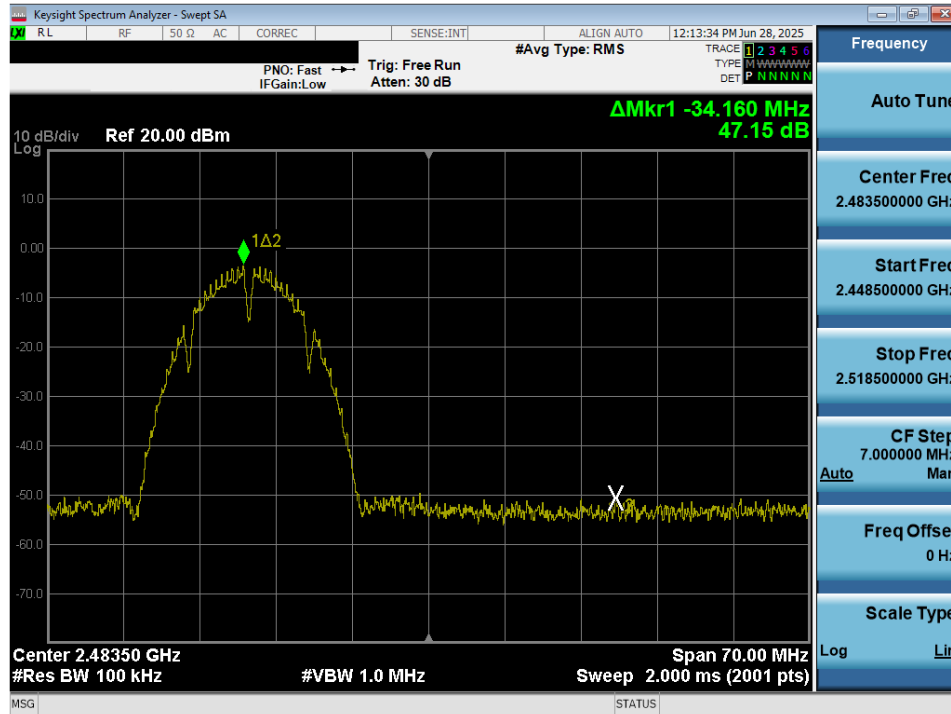


Plot 7-71. Band Edge Plot MIMO ANT2 (802.11b – Ch. 1)

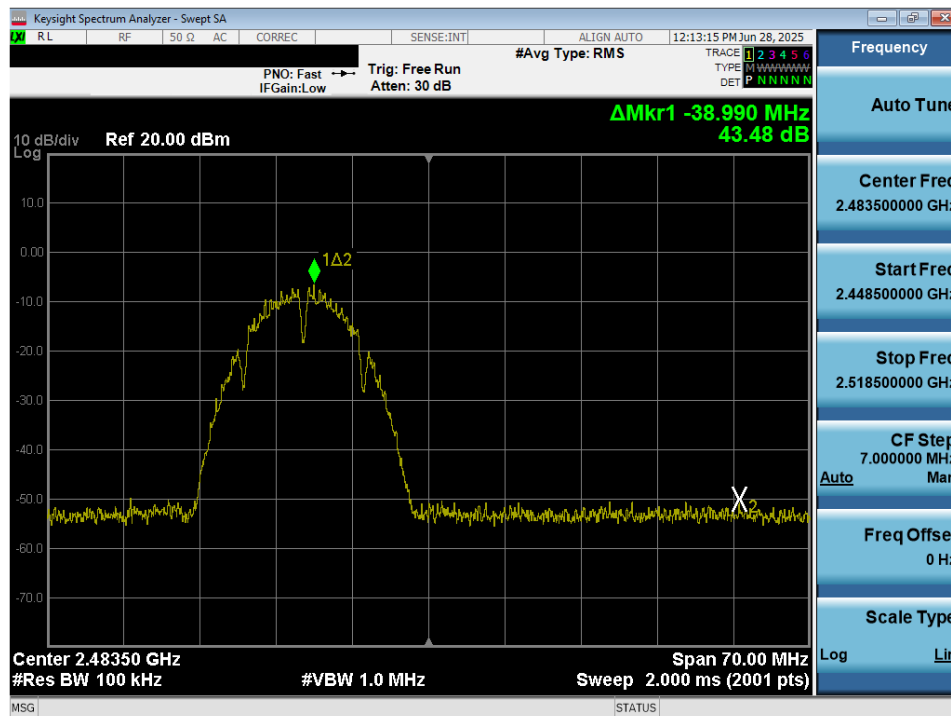


Plot 7-72. Band Edge Plot MIMO ANT2 (802.11b – Ch. 11)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 59 of 97                     |

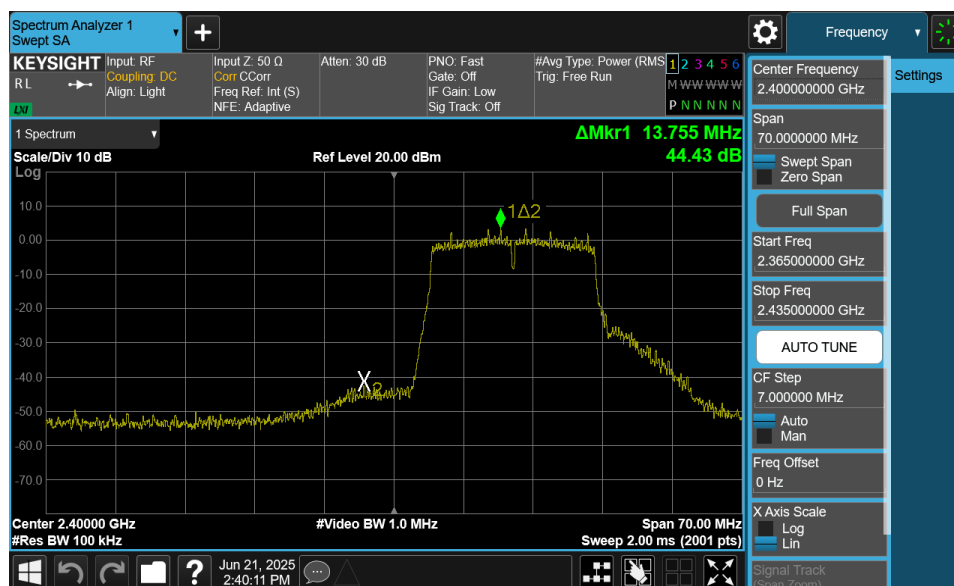


Plot 7-73. Band Edge Plot MIMO ANT2 (802.11b – Ch. 12)

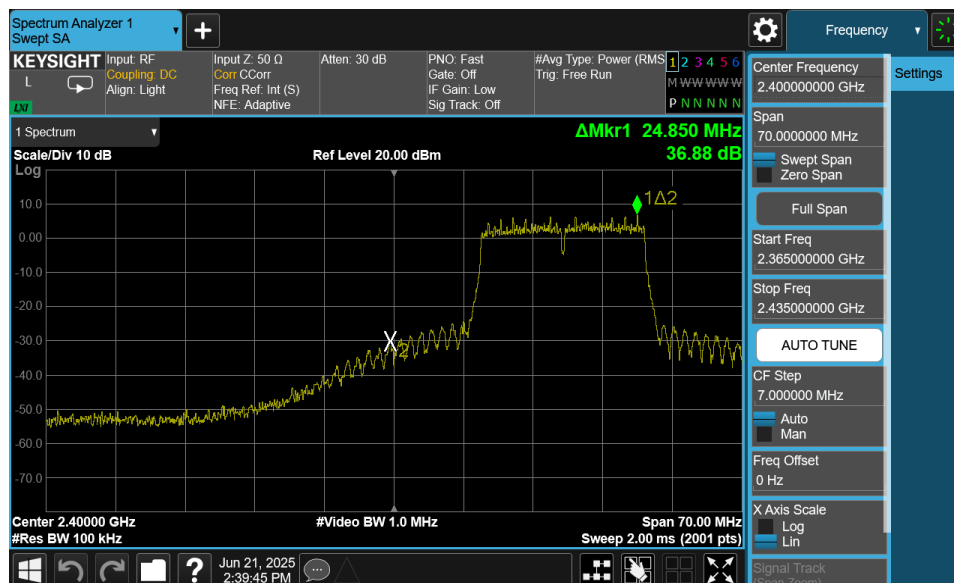


Plot 7-74. Band Edge Plot MIMO ANT2 (802.11b – Ch. 13)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 60 of 97                     |

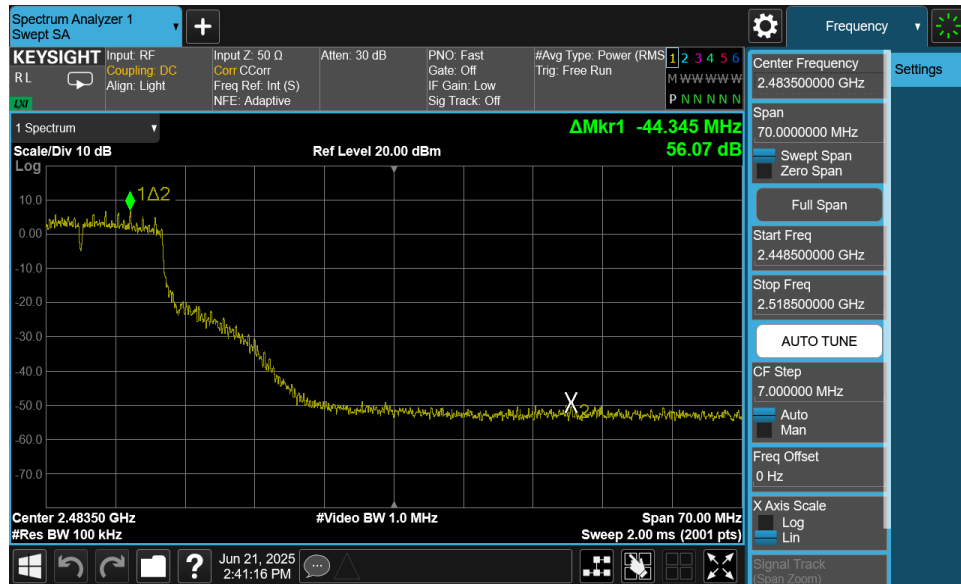


Plot 7-75. Band Edge Plot MIMO ANT2 (802.11g- Ch. 1)

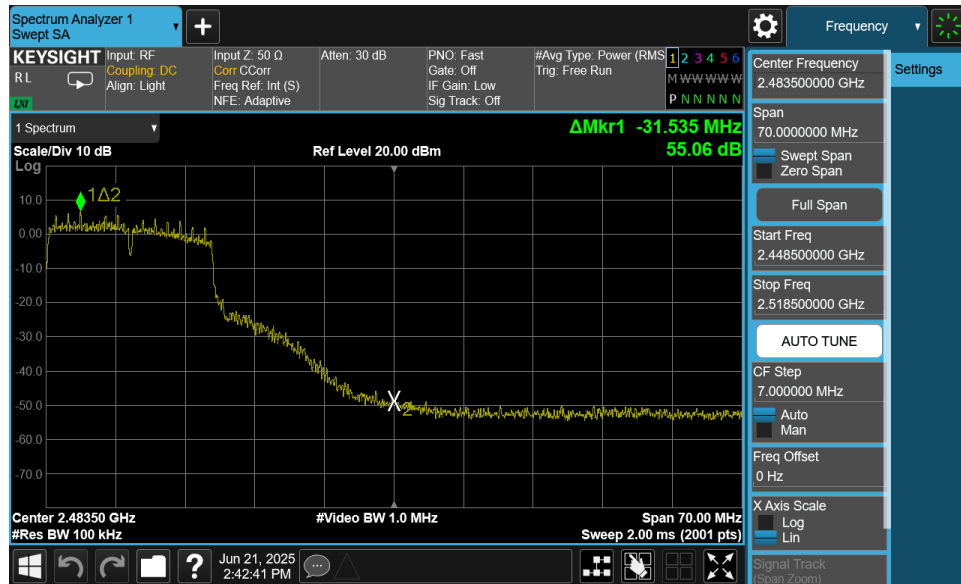


Plot 7-76. Band Edge Plot MIMO ANT2 (802.11g- Ch. 2)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 61 of 97                     |

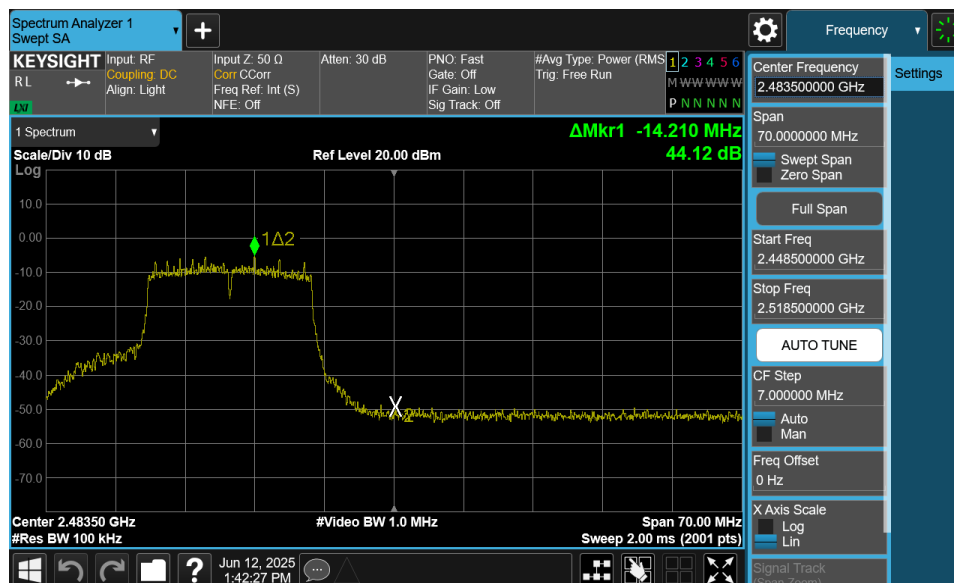
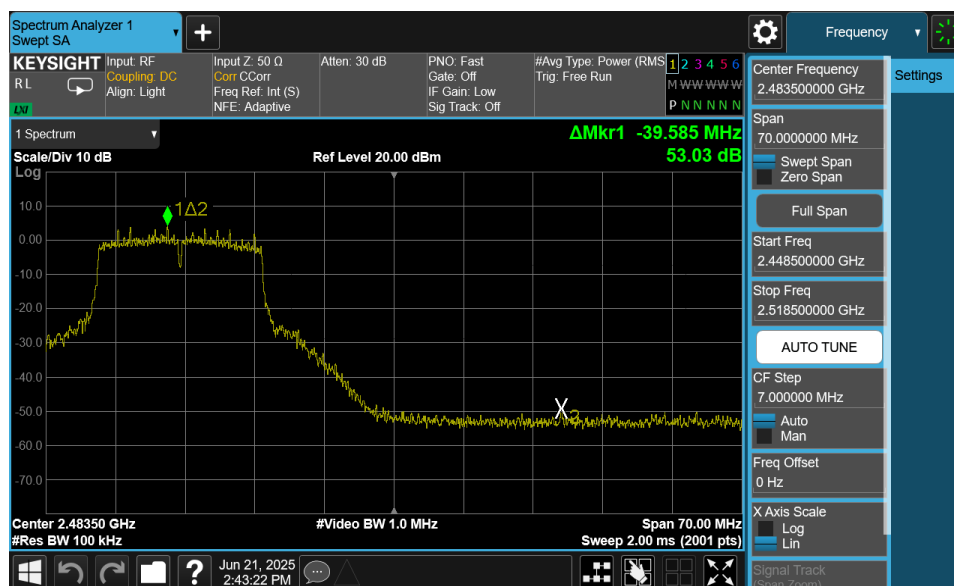


Plot 7-77. Band Edge Plot MIMO ANT2 (802.11g – Ch. 9)

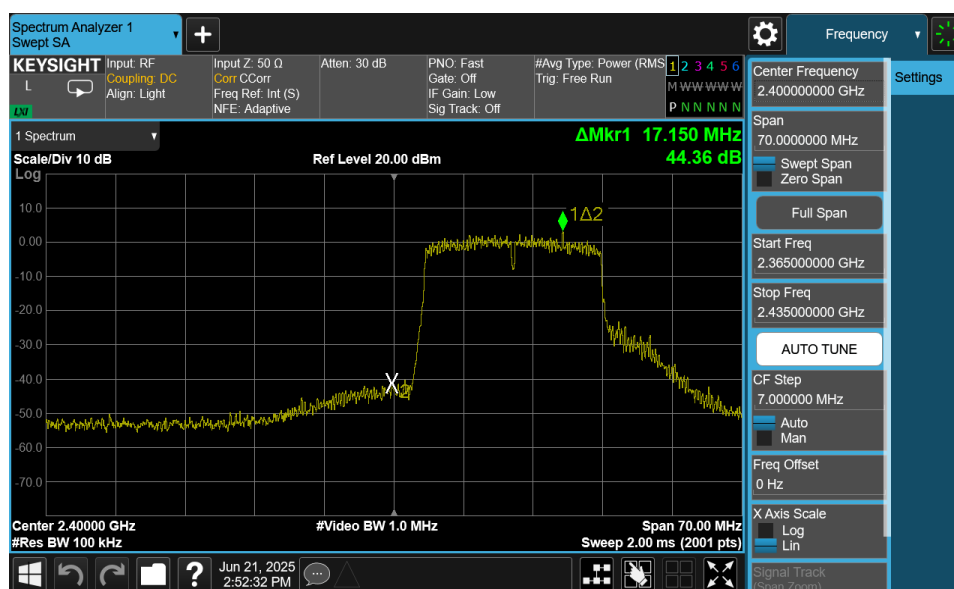
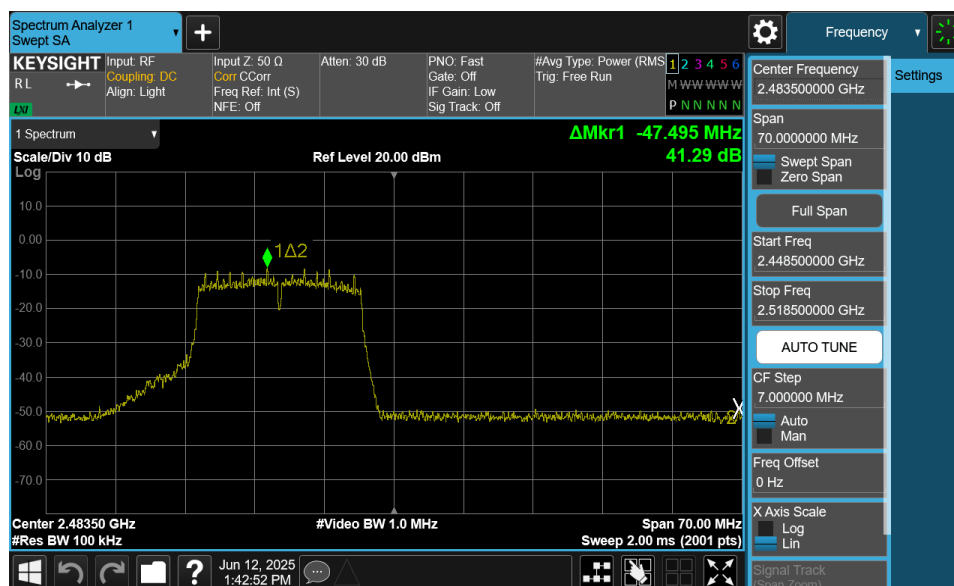


Plot 7-78. Band Edge Plot MIMO ANT2 (802.11g – Ch. 10)

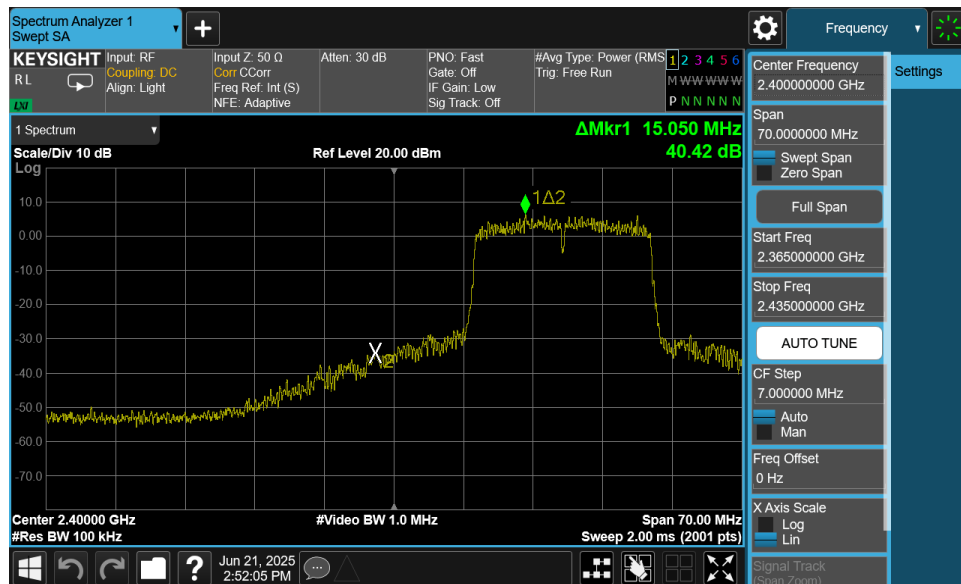
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 62 of 97                     |



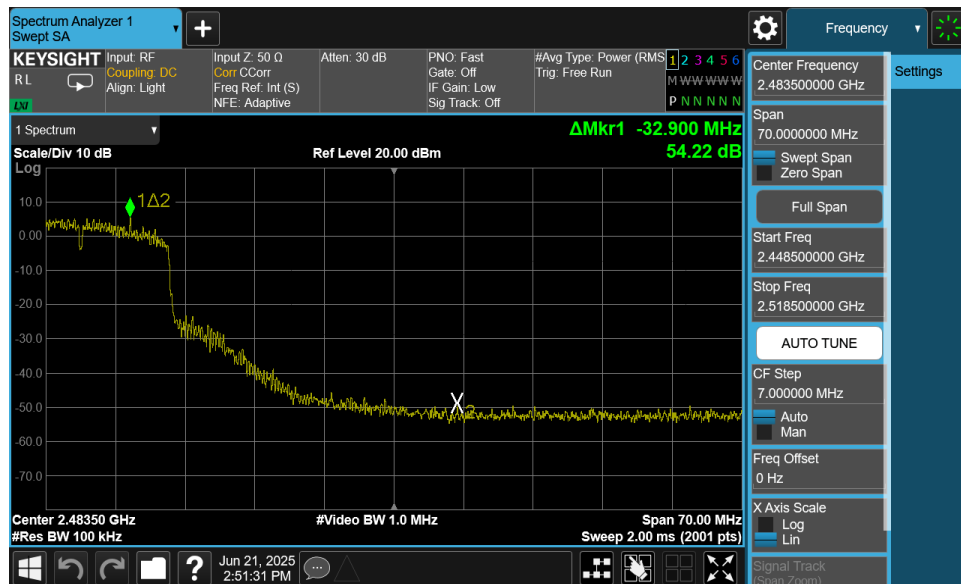
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 63 of 97                     |



|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 64 of 97                     |

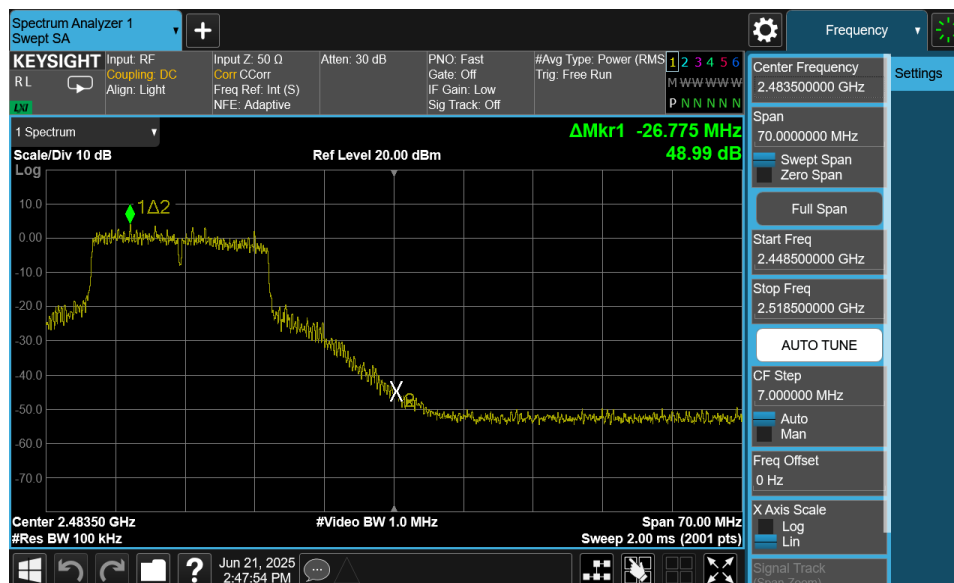
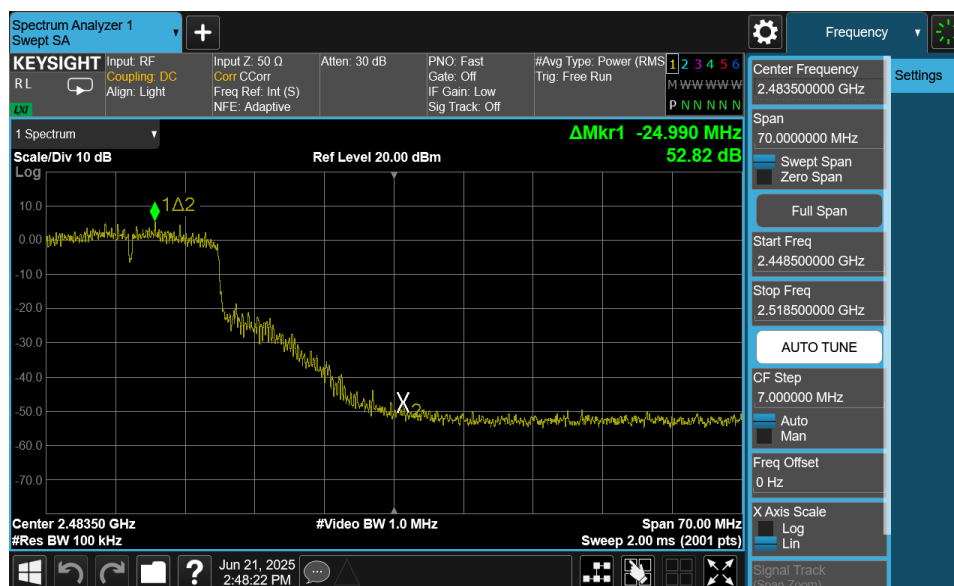


Plot 7-83. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 2)

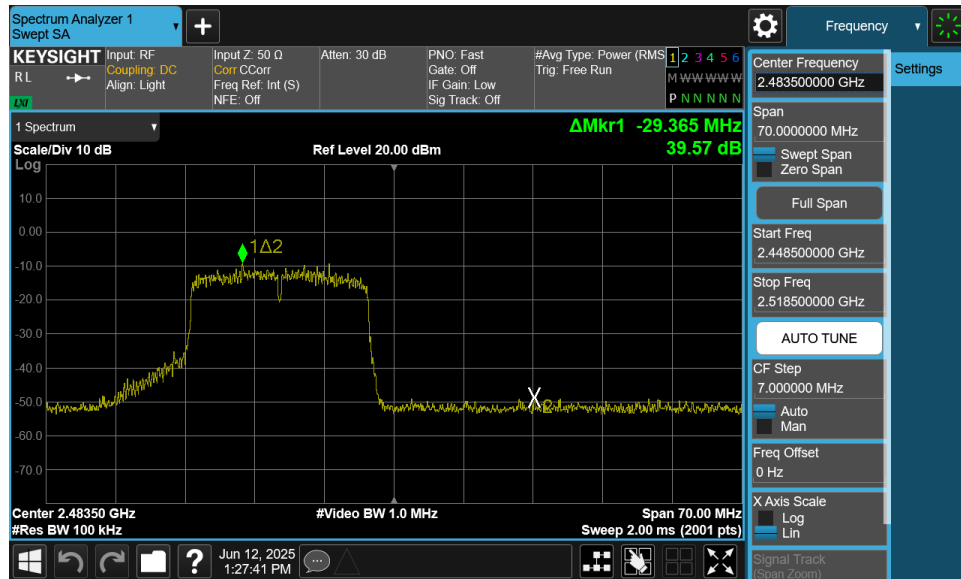
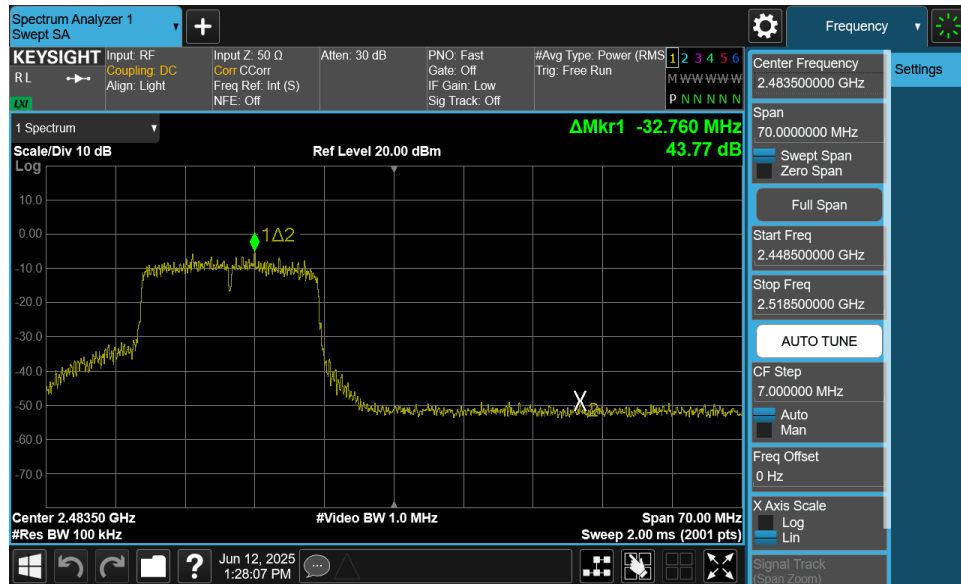


Plot 7-84. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 9)

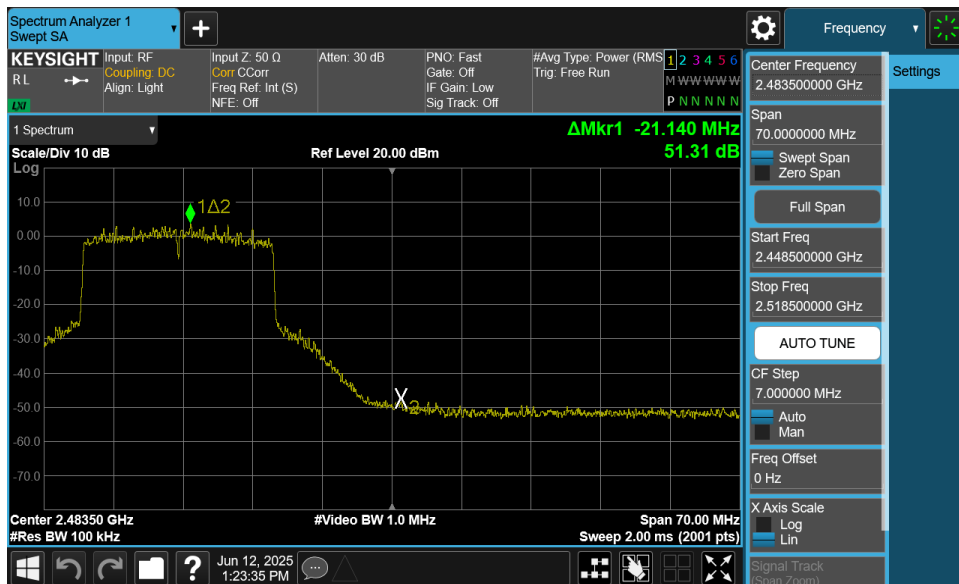
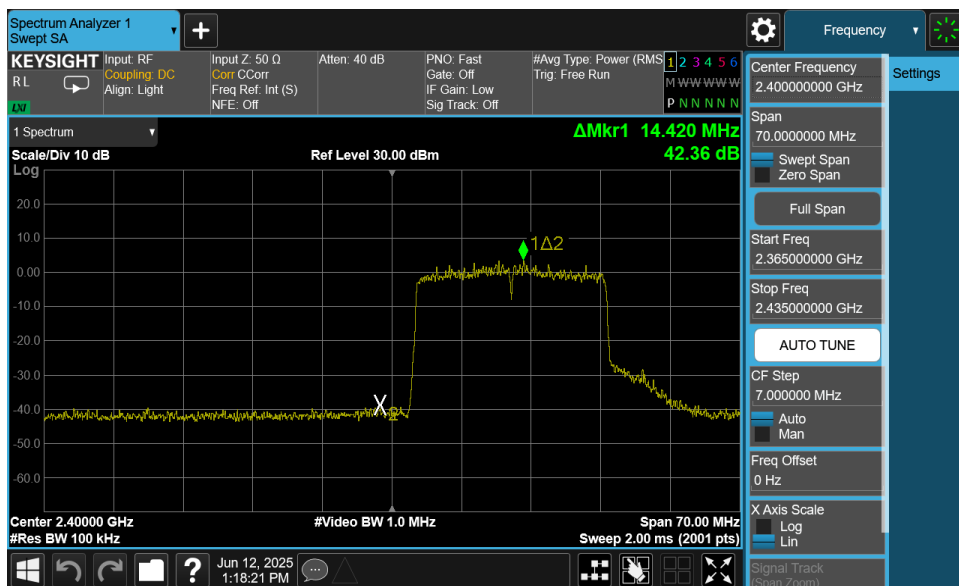
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 65 of 97                     |



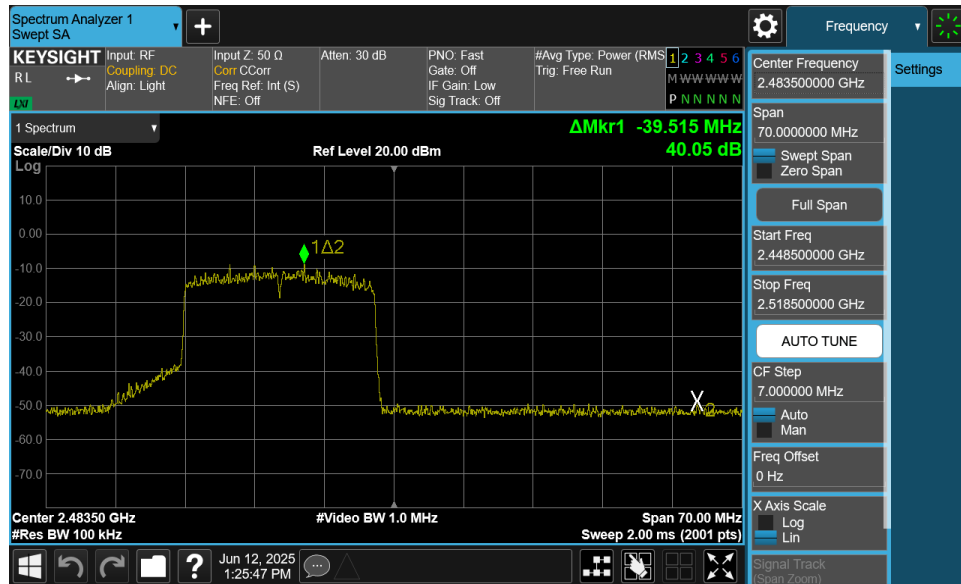
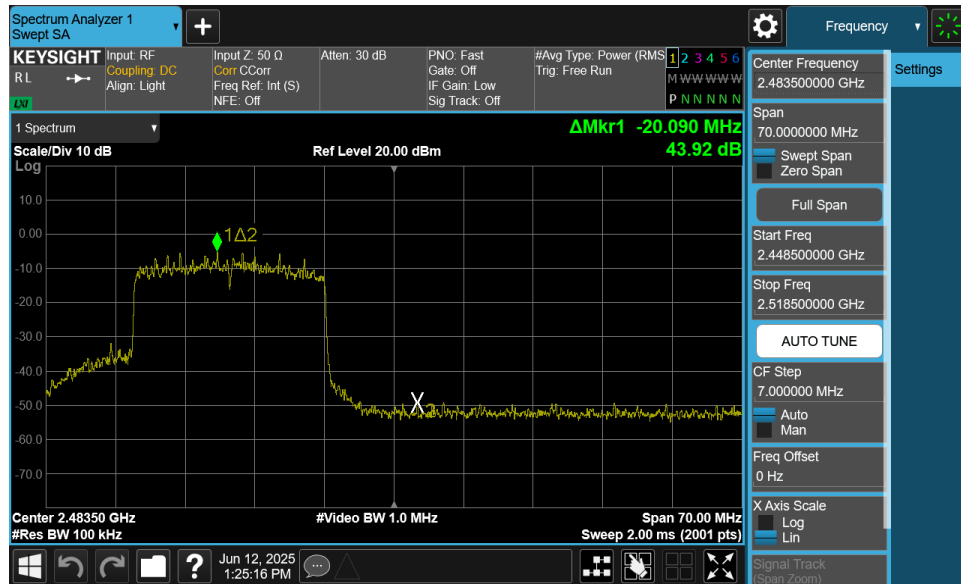
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 66 of 97                     |



|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 67 of 97                     |



|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 68 of 97                     |



|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 69 of 97                     |

## 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 were investigated to determine the worst-case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “n”, “ax” modes. The worst-case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

***The limit for out-of-band spurious emissions at the band edge is 30dB 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 C63.10:2020.***

### Test Procedure Used

ANSI C63.10:2020 – Section 11.11.3  
ANSI C63.10:2020 – Section 14.5.2.3

### 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**

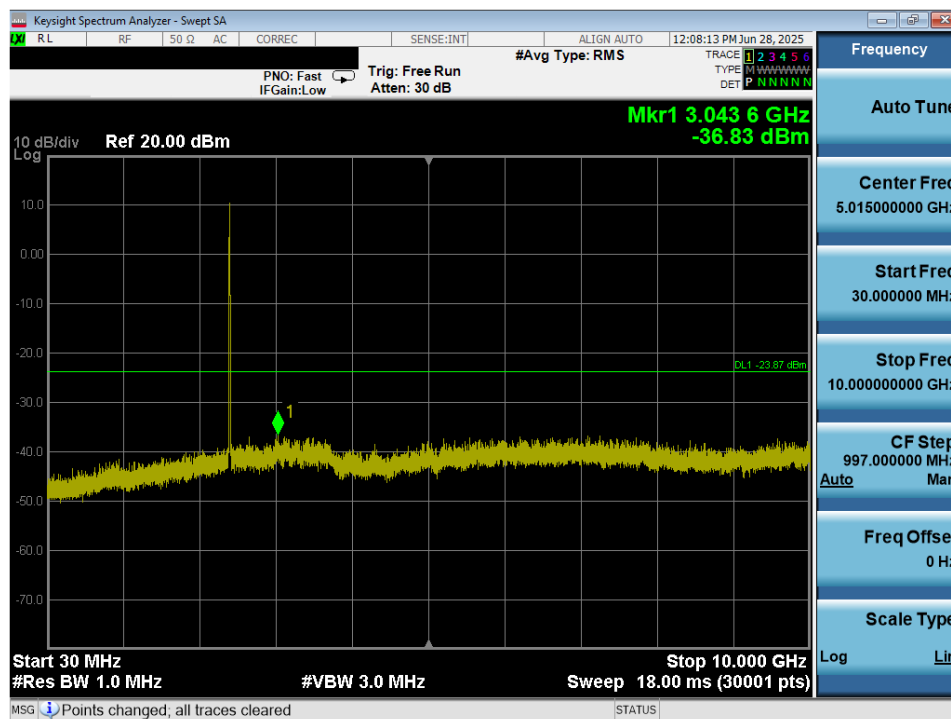
|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 70 of 97                     |

## **Test Notes**

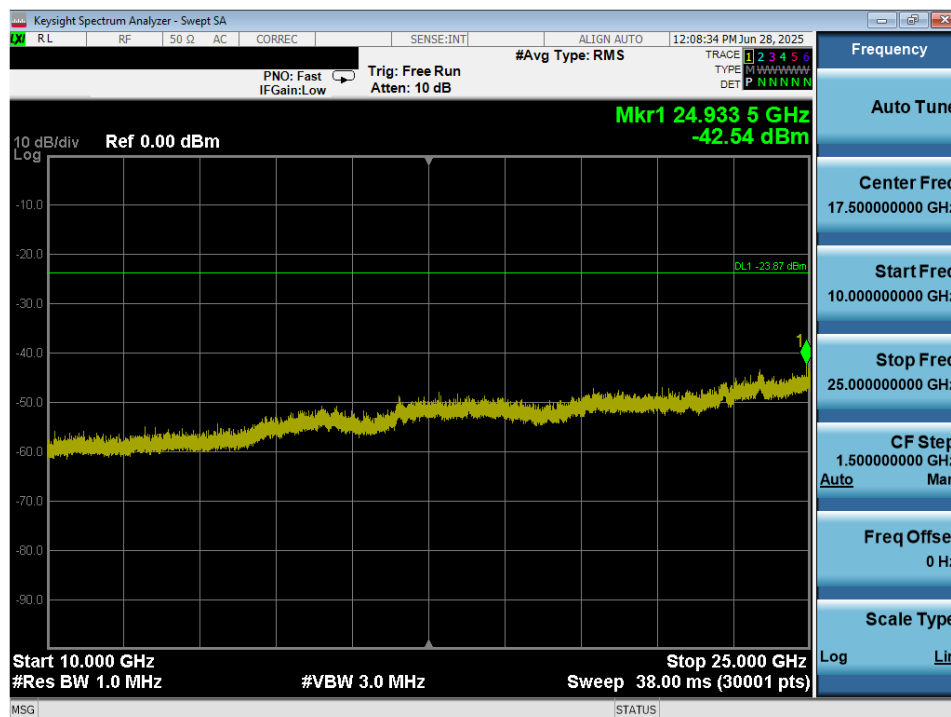
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB 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 C63.10:2020 Section 14.5.2.3, it was unnecessary to show compliance through the summation of test results of the individual outputs.

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-05.A3L     | <b>Test Dates:</b><br>6/3 - 7/17/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 71 of 97                            |

## MIMO Conducted Spurious Emissions

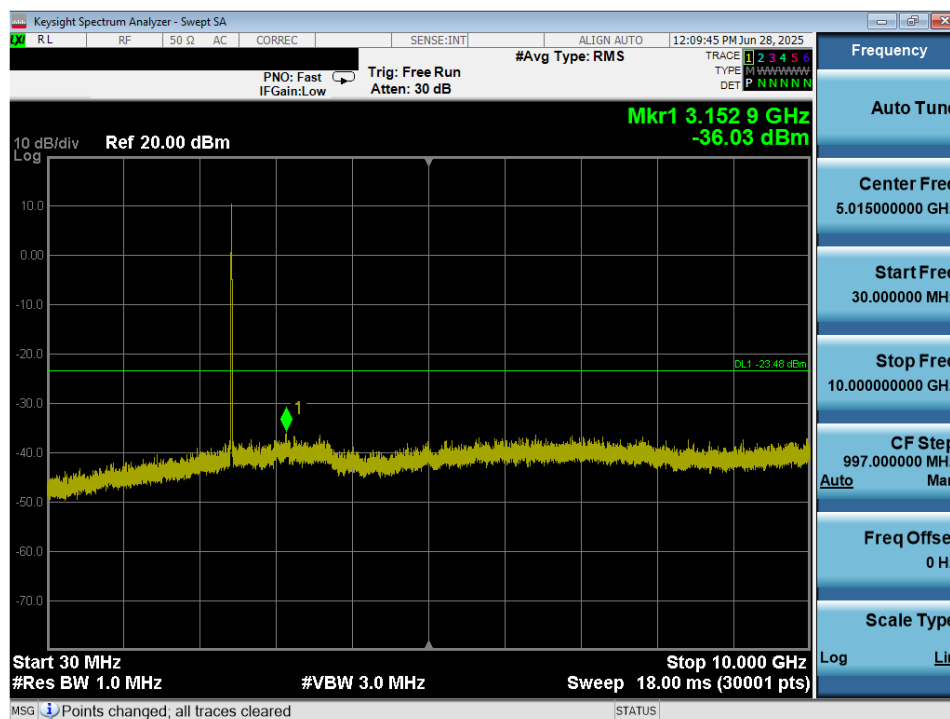


Plot 7-93. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 1)

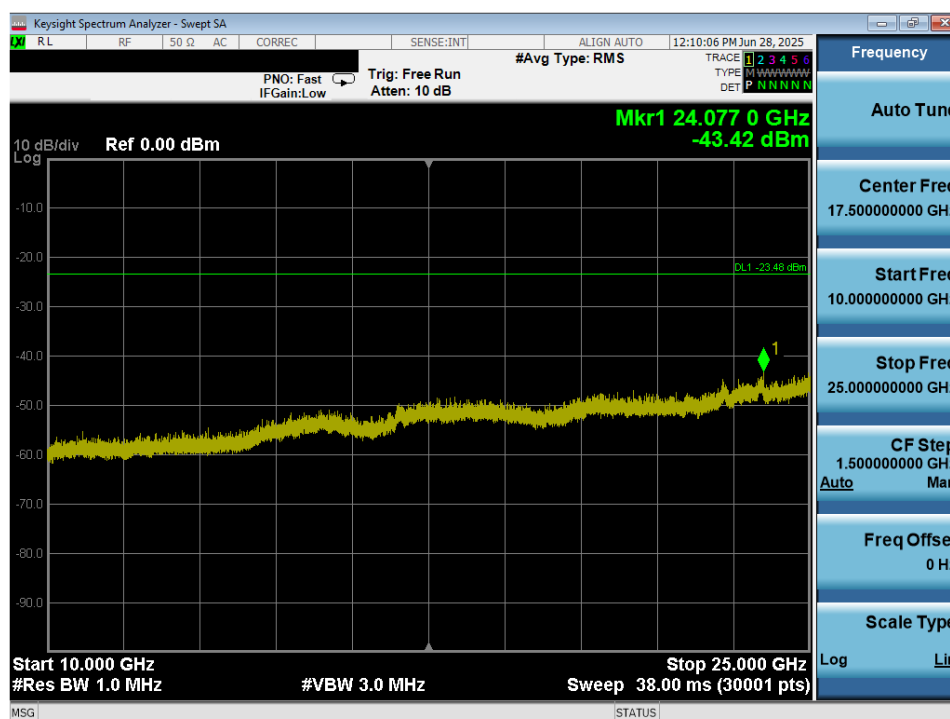


Plot 7-94. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 1)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 72 of 97                     |

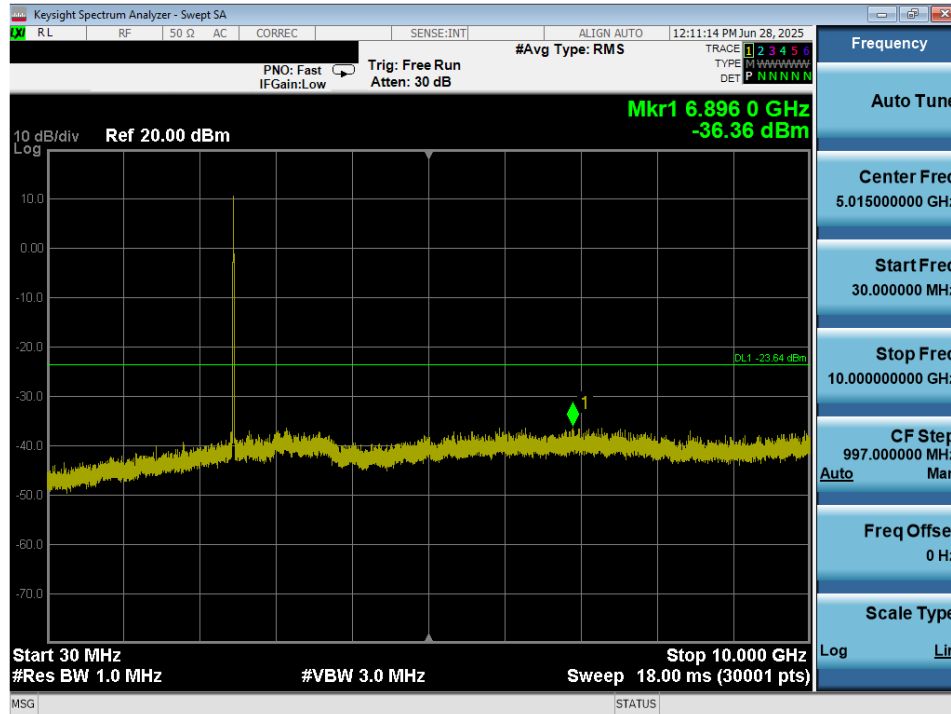


Plot 7-95. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 6)

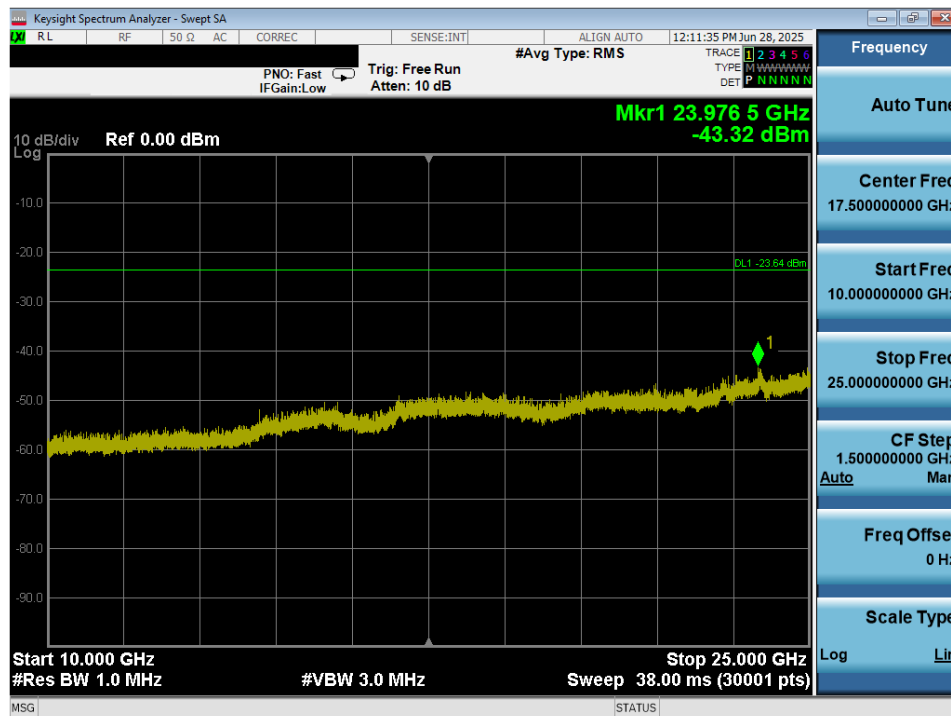


Plot 7-96. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 6)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 73 of 97                     |

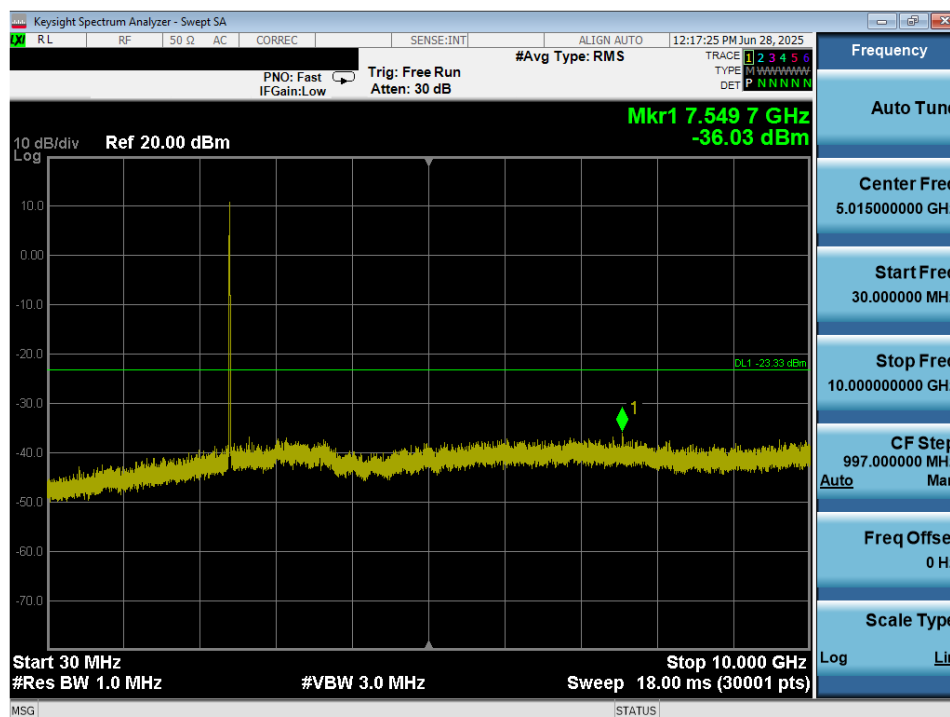


Plot 7-97. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 11)

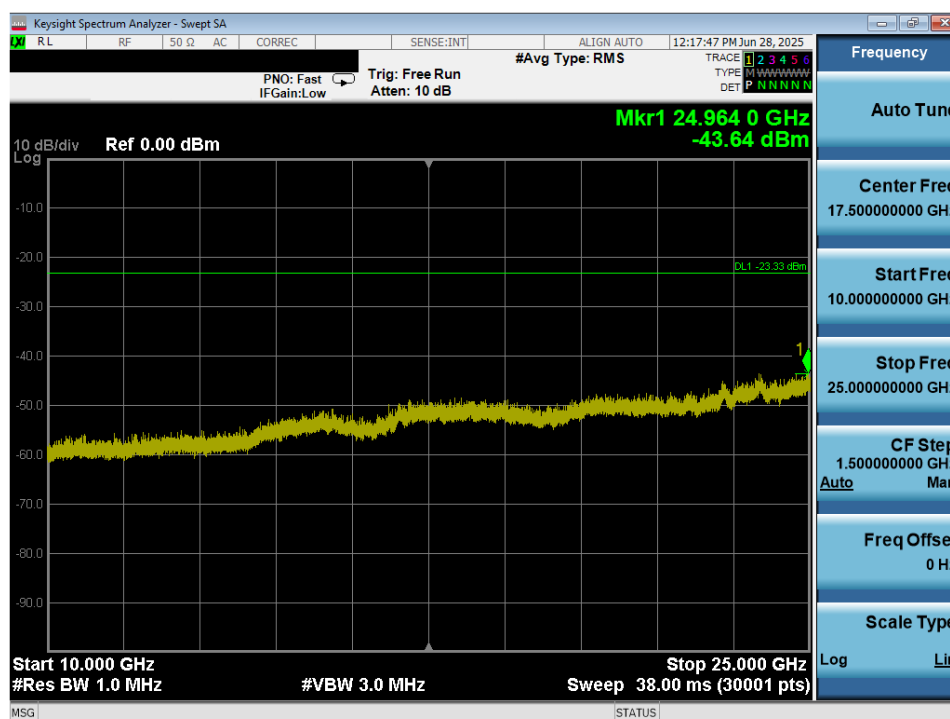


Plot 7-98. Conducted Spurious Plot MIMO ANT1 (802.11b – Ch. 11)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 74 of 97                     |

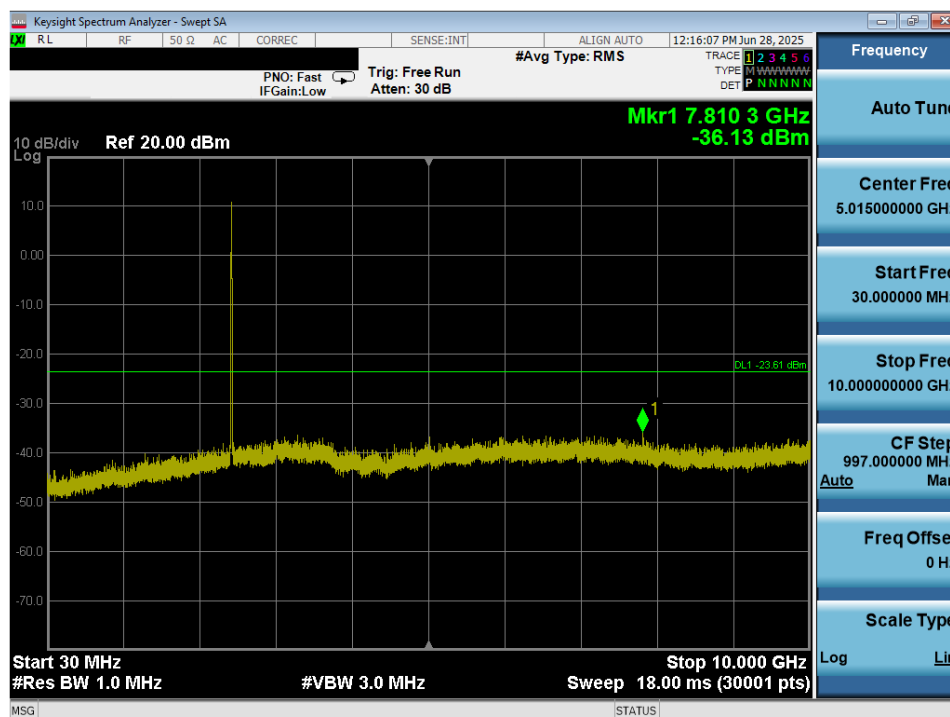


Plot 7-99. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 1)

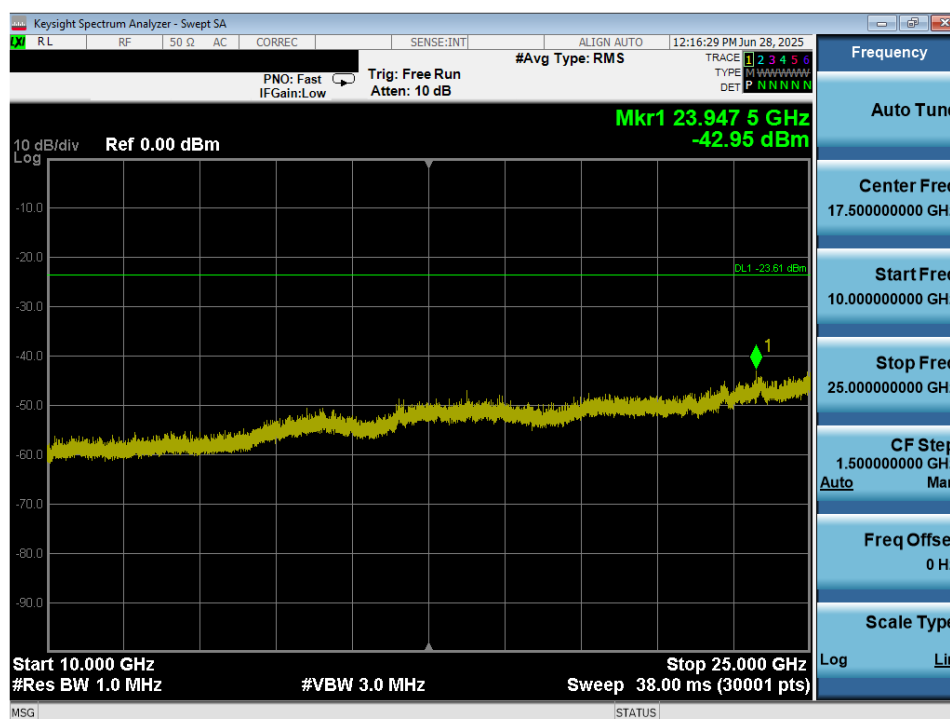


Plot 7-100. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 1)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 75 of 97                     |

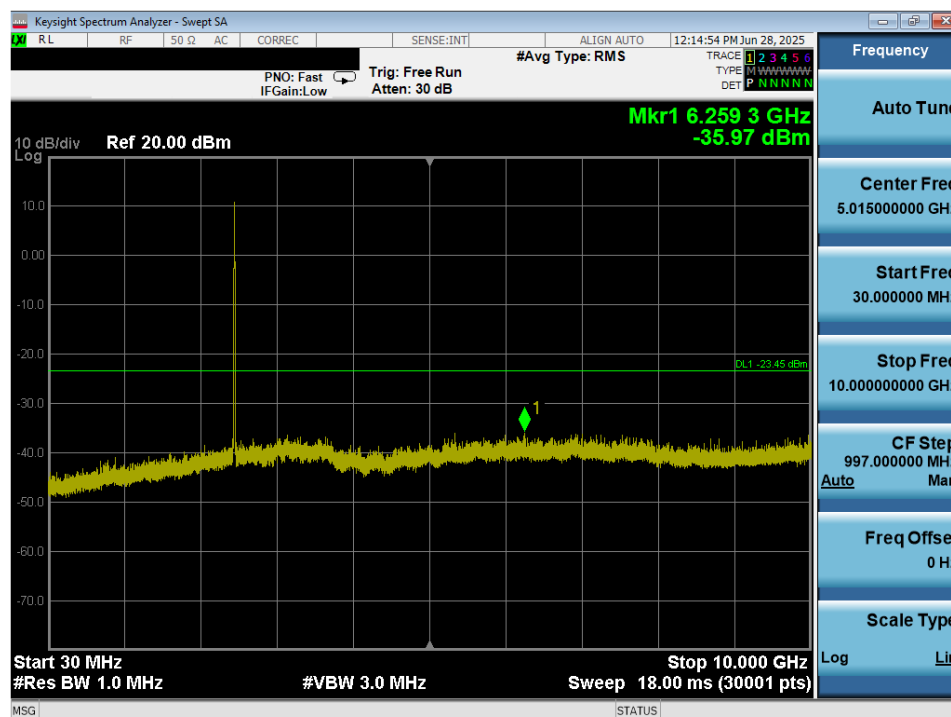
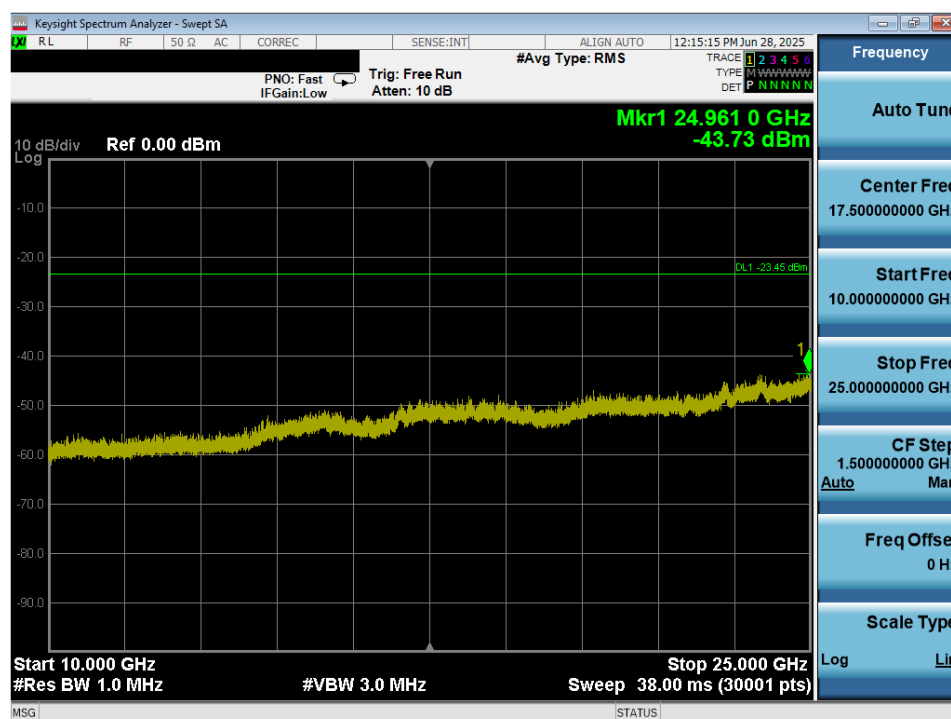


Plot 7-101. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 6)



Plot 7-102. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 6)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 76 of 97                     |

**Plot 7-103. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 11)****Plot 7-104. Conducted Spurious Plot MIMO ANT2 (802.11b – Ch. 11)**

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-05.A3L     | <b>Test Dates:</b><br>6/3 - 7/17/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 77 of 97                            |

## 7.7 Radiated Emission Measurements

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst-case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in FCC §15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown FCC §15.209 and RSS-Gen (8.9).***

| Frequency         | Field Strength<br>[ $\mu\text{V/m}$ ] | Measured Distance<br>[Meters] |
|-------------------|---------------------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz)                          | 300                           |
| 0.490 – 1.705 MHz | 24000/F (kHz)                         | 30                            |
| 1.705 – 30.00 MHz | 30                                    | 30                            |
| 30.00 – 88.00 MHz | 100                                   | 3                             |
| 88.00 – 216.0 MHz | 150                                   | 3                             |
| 216.0 – 960.0 MHz | 200                                   | 3                             |
| Above 960.0 MHz   | 500                                   | 3                             |

**Table 7-8. Radiated Limits**

### Test Procedures Used

ANSI C63.10:2020 – Section 6.6.4.3

### Test Settings – Above 1GHz

#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 78 of 97                     |

### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

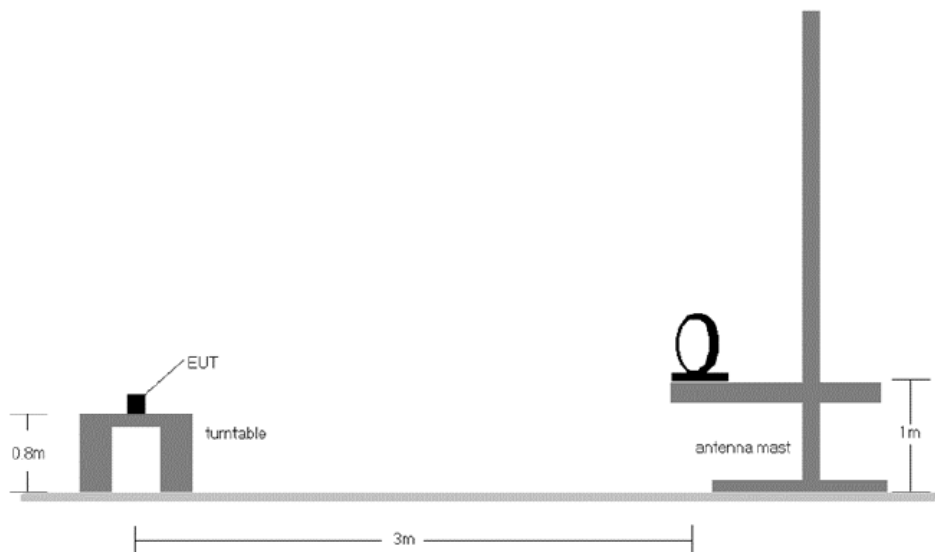
### Test Settings – Below 1GHz

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

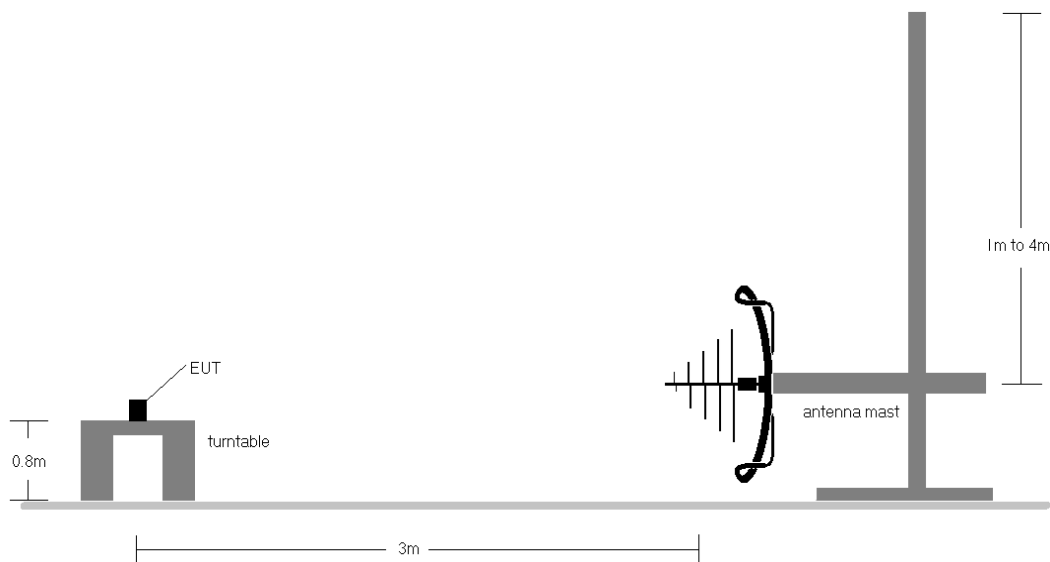
### Test Setup

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

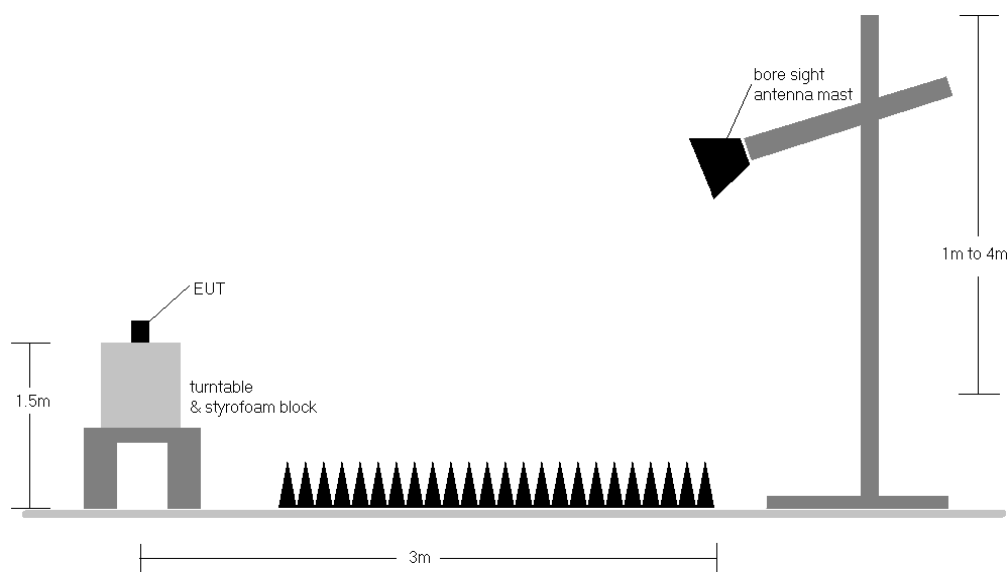


**Figure 7-6. Radiated Test Setup < 30MHz**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 79 of 97                     |



**Figure 7-7. Radiated Test Setup < 1GHz**



**Figure 7-8. Radiated Test Setup > 1GHz**

## Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of ANSI C63.10:2020 Section 11.12.2 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limits shown in §15.209.

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-05.A3L     | <b>Test Dates:</b><br>6/3 - 7/17/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 80 of 97                            |

3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not 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 wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst-case results during the transmitter spurious emissions testing.
9. No spurious emissions were detected within 20dB of the limit below 30MHz.
10. The results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
11. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

## **Sample Calculations**

### **Determining Spurious Emissions Levels**

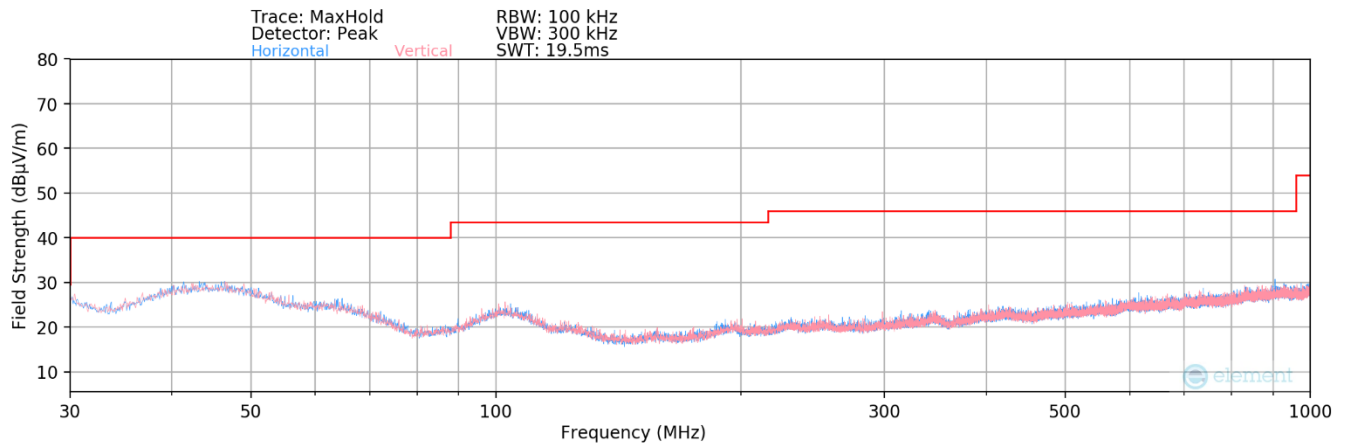
- Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

### **Radiated Band Edge Measurement Offset**

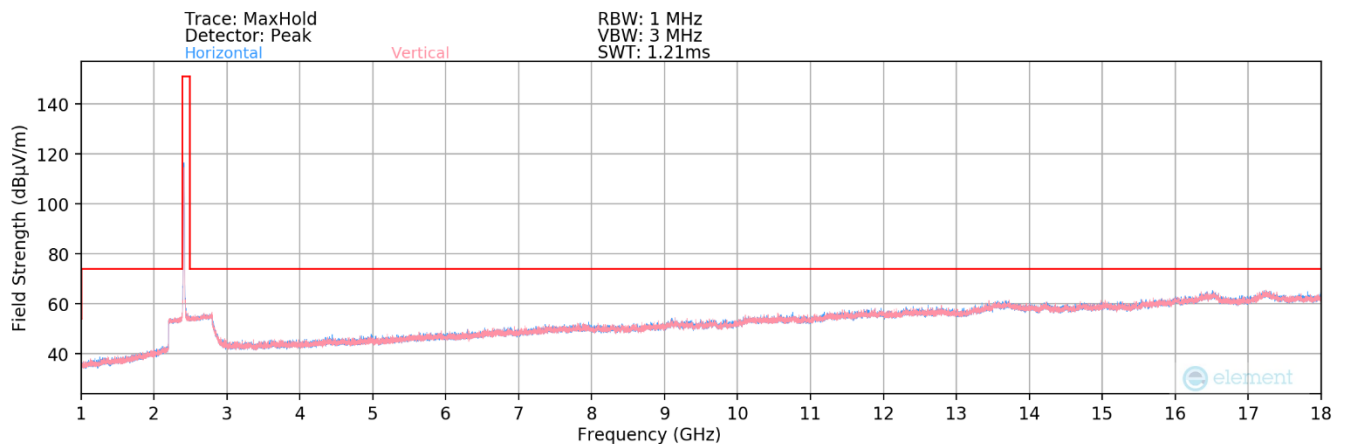
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 81 of 97                     |

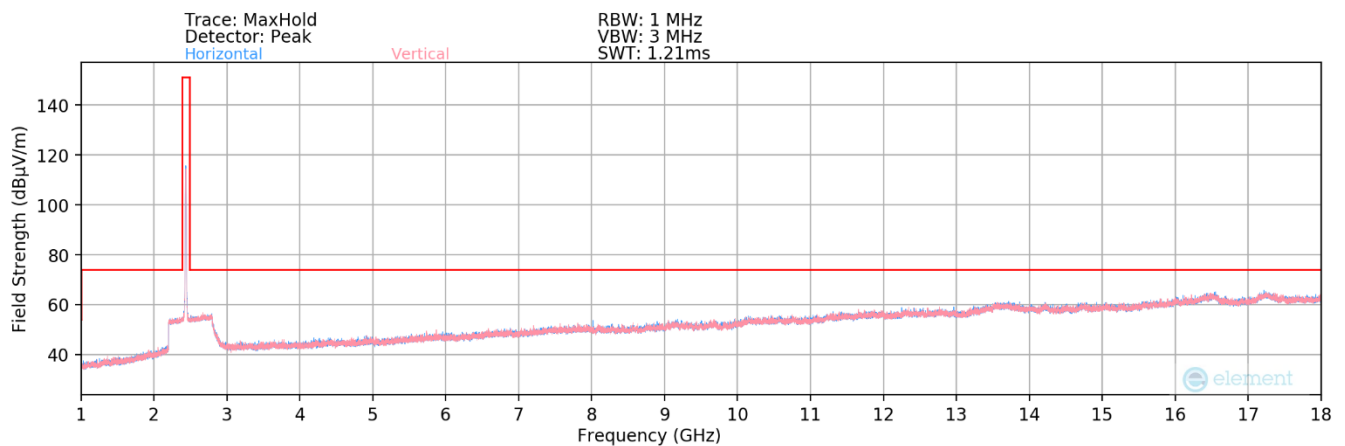
## MIMO Radiated Spurious Emission Measurements



**Plot 7-105. Radiated Spurious Plot below 1GHz MIMO**

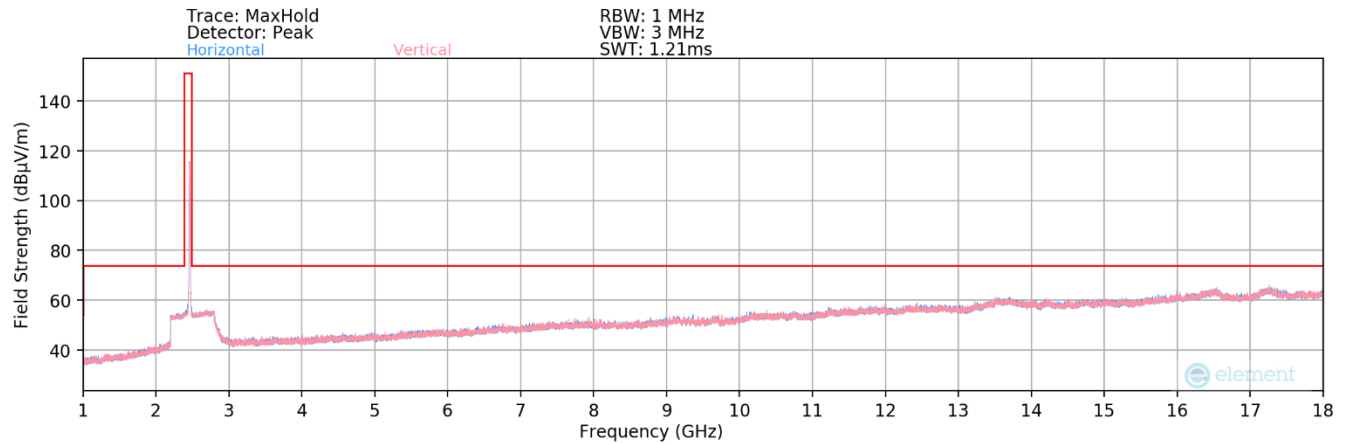


**Plot 7-106. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 1)**

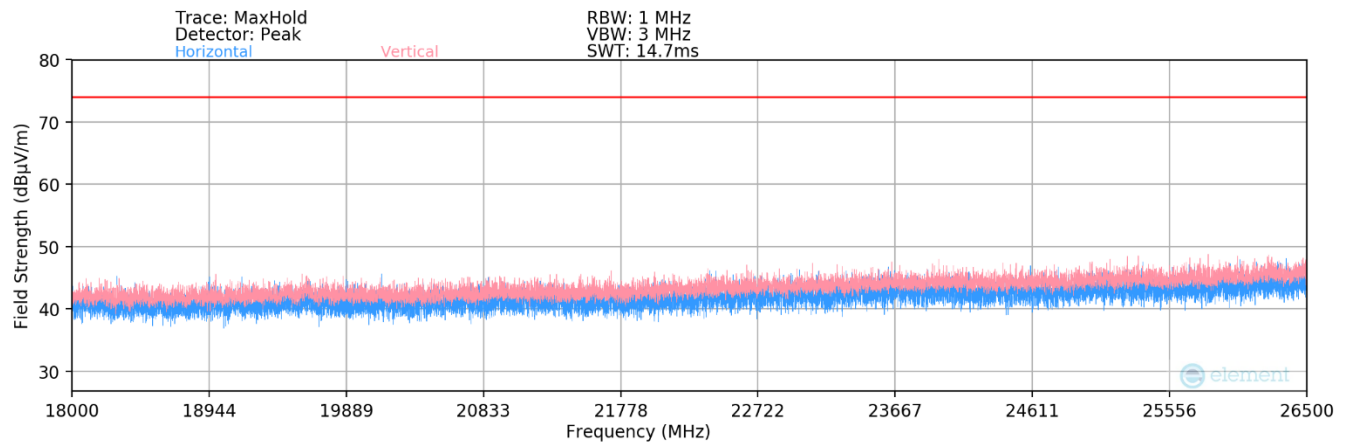


**Plot 7-107. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 6)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 82 of 97                     |



**Plot 7-108. Radiated Spurious Plot above 1GHz MIMO (802.11b – Ch. 11)**



**Plot 7-109. Radiated Spurious Plot above 18GHz MIMO**

| Frequency [MHz] | Detector   | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 278.50          | Quasi-Peak | H               | -                   | -                          | -97.46               | 20.77       | 30.31                   | 46.02          | -15.71      |

**Table 7-9. Radiated Measurements below 1GHz MIMO**

|                                         |                                |                              |  |  |                                   |  |
|-----------------------------------------|--------------------------------|------------------------------|--|--|-----------------------------------|--|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              |  |  | Approved by:<br>Technical Manager |  |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet |  |  | Page 83 of 97                     |  |

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 4824.00         | Avg      | H               | 152                 | 279                        | -69.95               | -1.44       | 35.61                   | 53.98          | -18.37      |
| 4824.00         | Peak     | H               | 152                 | 279                        | -60.98               | -1.44       | 44.58                   | 73.98          | -29.40      |
| 12060.00        | Avg      | H               | -                   | -                          | -78.04               | 9.71        | 38.67                   | 53.98          | -15.31      |
| 12060.00        | Peak     | H               | -                   | -                          | -66.23               | 9.71        | 50.48                   | 73.98          | -23.50      |

**Table 7-10. Radiated Measurements MIMO**

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2437MHz  
 Channel: 6

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 4874.00         | Avg      | H               | 151                 | 279                        | -72.82               | -1.12       | 33.06                   | 53.98          | -20.92      |
| 4874.00         | Peak     | H               | 151                 | 279                        | -62.44               | -1.12       | 43.44                   | 73.98          | -30.54      |
| 7311.00         | Avg      | H               | 185                 | 86                         | -74.81               | 4.33        | 36.52                   | 53.98          | -17.46      |
| 7311.00         | Peak     | H               | 185                 | 86                         | -64.39               | 4.33        | 46.94                   | 73.98          | -27.04      |
| 12185.00        | Avg      | H               | -                   | -                          | -77.93               | 9.58        | 38.65                   | 53.98          | -15.33      |
| 12185.00        | Peak     | H               | -                   | -                          | -66.56               | 9.58        | 50.02                   | 73.98          | -23.96      |

**Table 7-11. Radiated Measurements MIMO**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 84 of 97                     |

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 4924.00         | Avg      | H               | 125                 | 277                        | -72.39               | -1.12       | 33.49                   | 53.98          | -20.49      |
| 4924.00         | Peak     | H               | 125                 | 277                        | -63.06               | -1.12       | 42.82                   | 73.98          | -31.16      |
| 7386.00         | Avg      | H               | 157                 | 2                          | -75.58               | 4.84        | 36.26                   | 53.98          | -17.72      |
| 7386.00         | Peak     | H               | 157                 | 2                          | -64.33               | 4.84        | 47.51                   | 73.98          | -26.47      |
| 12310.00        | Avg      | H               | -                   | -                          | -79.01               | 9.84        | 37.83                   | 53.98          | -16.15      |
| 12310.00        | Peak     | H               | -                   | -                          | -66.97               | 9.84        | 49.87                   | 73.98          | -24.11      |

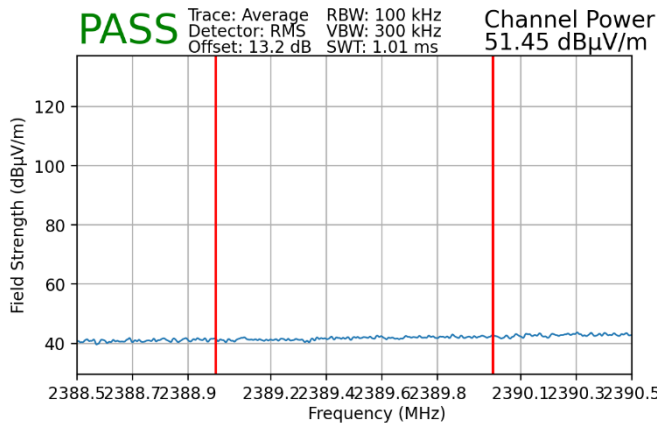
**Table 7-12. Radiated Measurements MIMO**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 85 of 97                     |

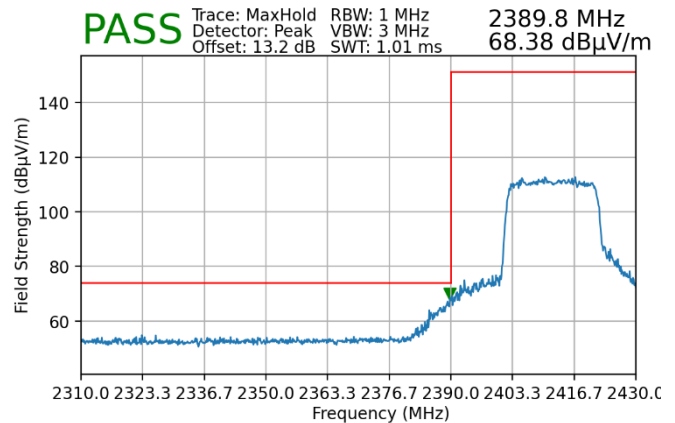
## MIMO Radiated Restricted Band Edge Measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2412MHz  |
| Channel:                  | 1        |

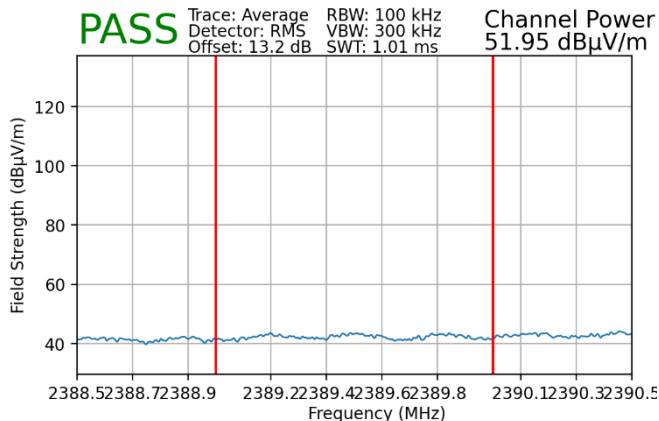


**Plot 7-110. Radiated Restricted Lower Band Edge Measurement MIMO (Average)**

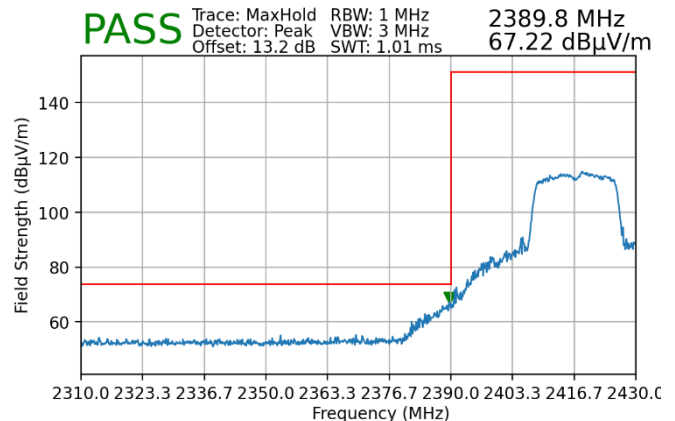


**Plot 7-111. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11n  |
| Worst Case Transfer Rate: | MCS8     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2417MHz  |
| Channel:                  | 2        |



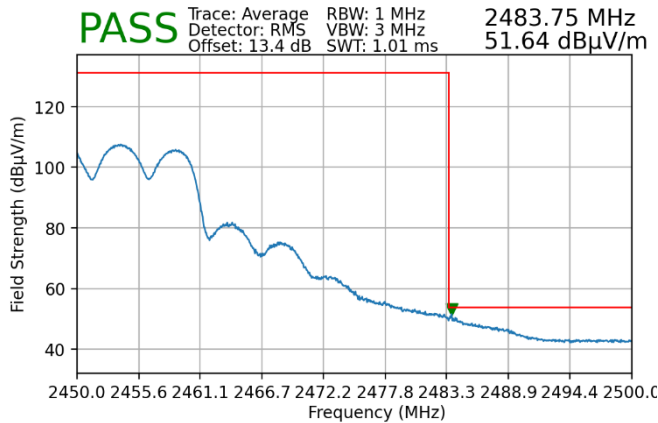
**Plot 7-112. Radiated Restricted Lower Band Edge Measurement MIMO (Average)**



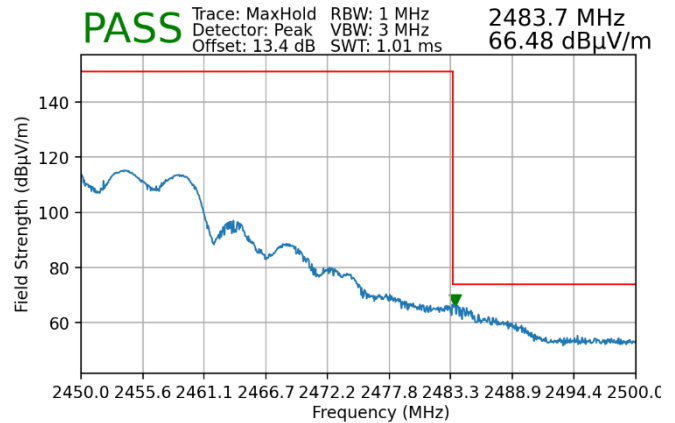
**Plot 7-113. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 86 of 97                     |

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2452MHz  
 Channel: 9

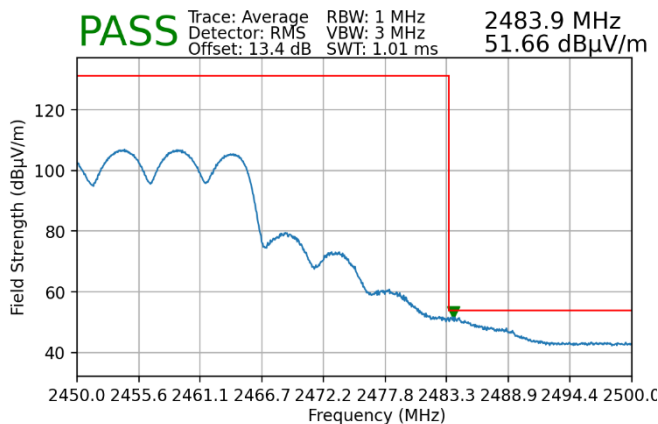


**Plot 7-114. Radiated Restricted Upper Band Edge Measurement MIMO (Average)**

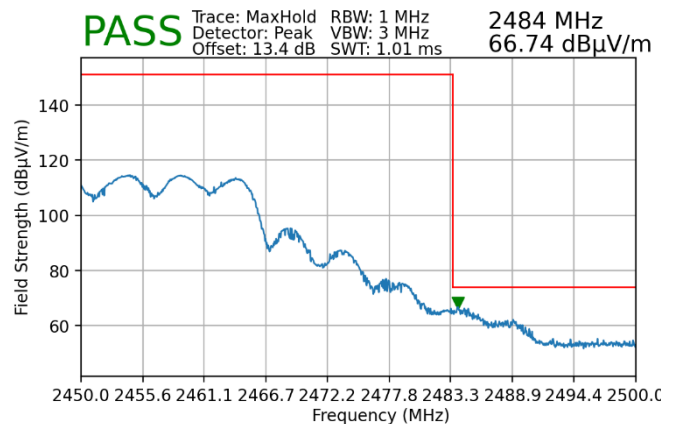


**Plot 7-115. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)**

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2457MHz  
 Channel: 10



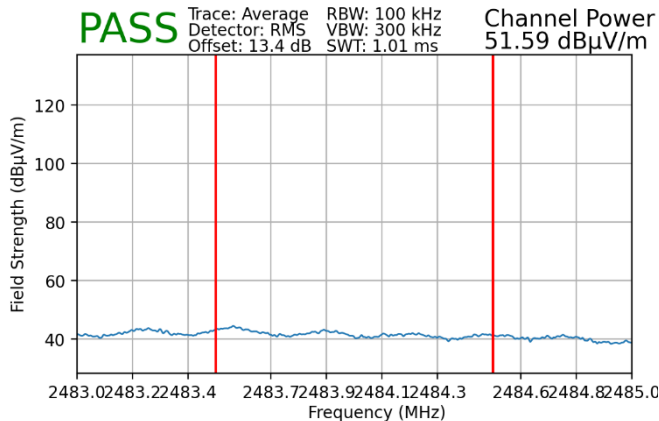
**Plot 7-116. Radiated Restricted Upper Band Edge Measurement MIMO (Average)**



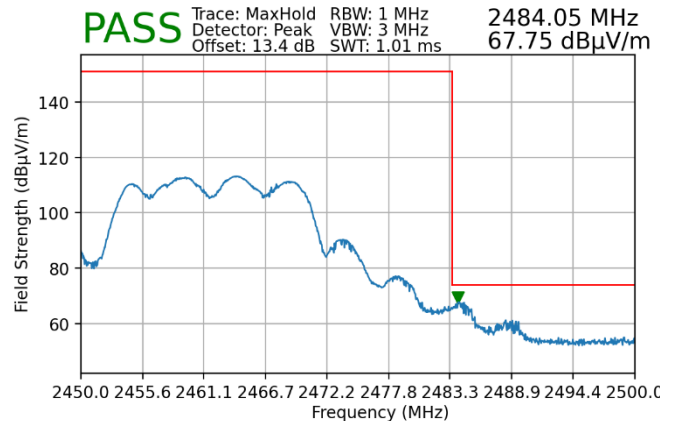
**Plot 7-117. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 87 of 97                     |

Worst Case Mode: 802.11g  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 2462MHz  
Channel: 11

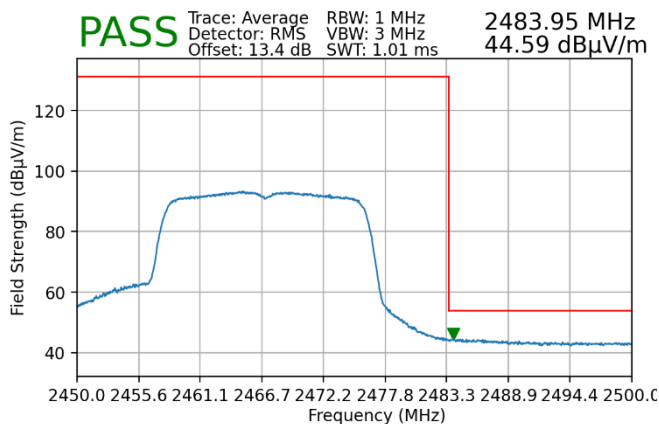


**Plot 7-118. Radiated Restricted Upper Band Edge Measurement MIMO (Average)**

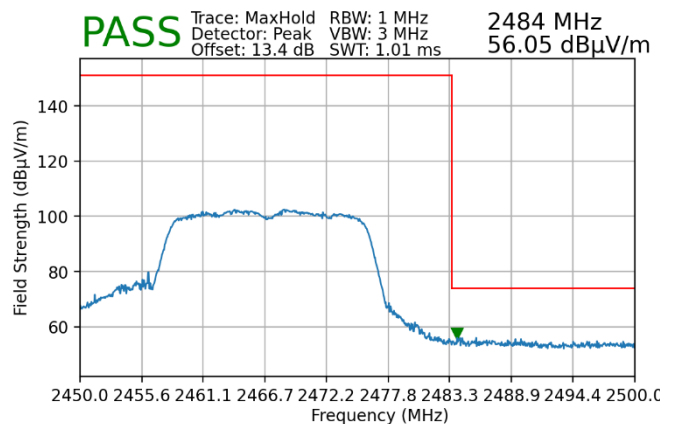


**Plot 7-119. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)**

Worst Case Mode: 802.11n  
Worst Case Transfer Rate: MCS8  
Distance of Measurements: 3 Meters  
Operating Frequency: 2467MHz  
Channel: 12



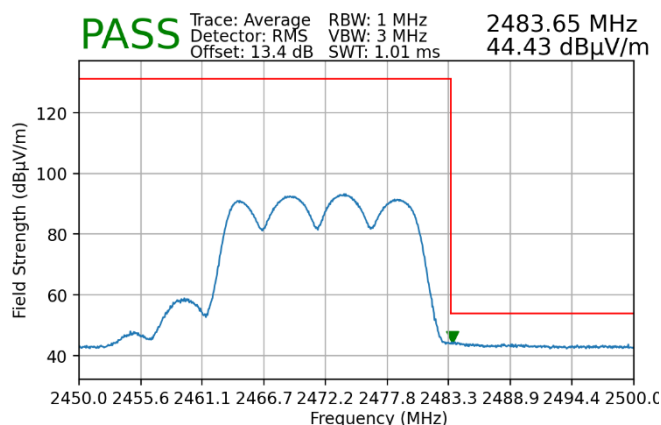
**Plot 7-120. Radiated Restricted Upper Band Edge Measurement MIMO (Average)**



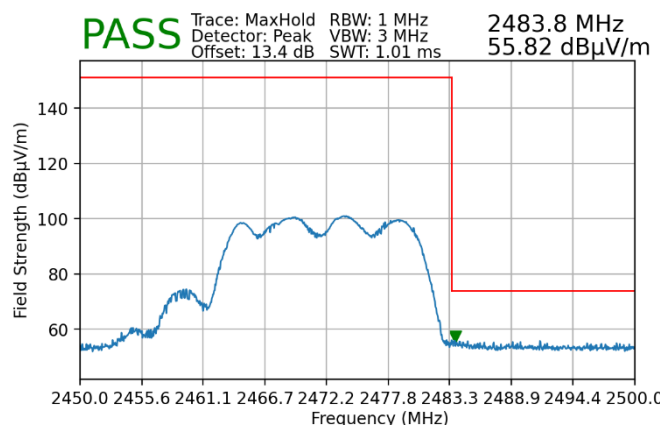
**Plot 7-121. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 88 of 97                     |

Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2472MHz  
 Channel: 13



**Plot 7-122. Radiated Restricted Upper Band Edge Measurement MIMO (Average)**



**Plot 7-123. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)**

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-05.A3L     | <b>Test Dates:</b><br>6/3 - 7/17/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 89 of 97                            |

## 7.8 Line-Conducted Test Data

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

***All conducted emissions must not exceed the limits shown in the table below per §15.207 and RSS-Gen (8.8).***

| Frequency of emission (MHz) | Conducted Limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | Quasi-peak                   | Average   |
| 0.15 – 0.5                  | 66 to 56*                    | 56 to 46* |
| 0.5 – 5                     | 56                           | 46        |
| 5 – 30                      | 60                           | 50        |

**Table 7-13. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10:2020, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

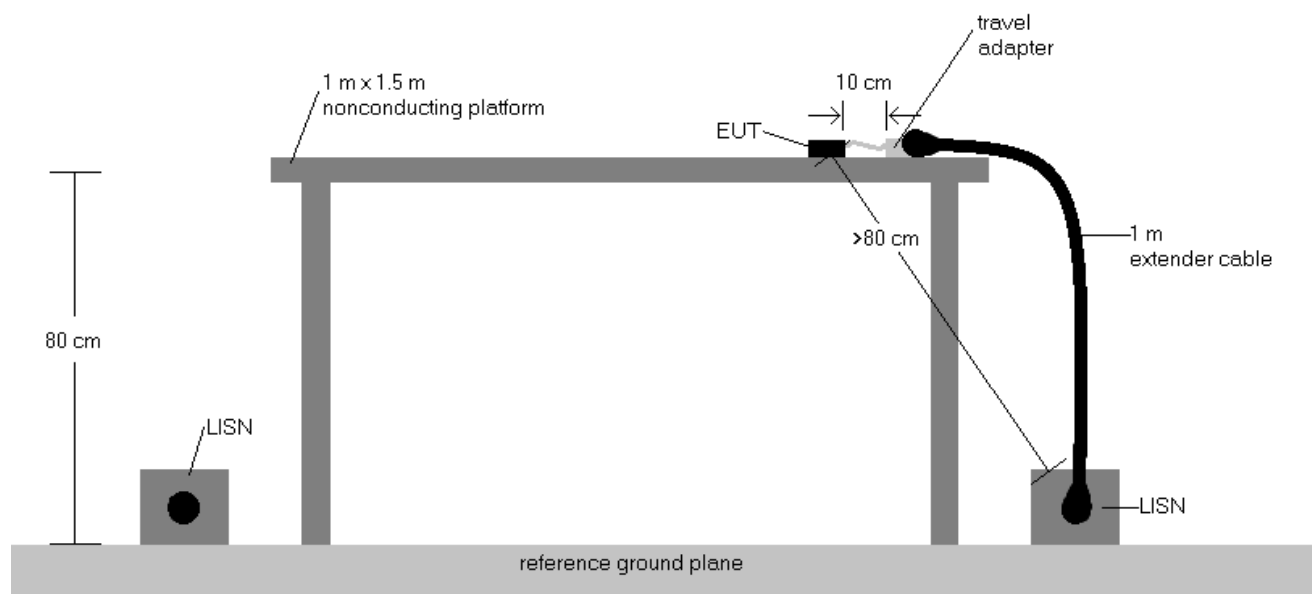
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-05.A3L     | <b>Test Dates:</b><br>6/3 - 7/17/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 90 of 97                            |

## Test Setup

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

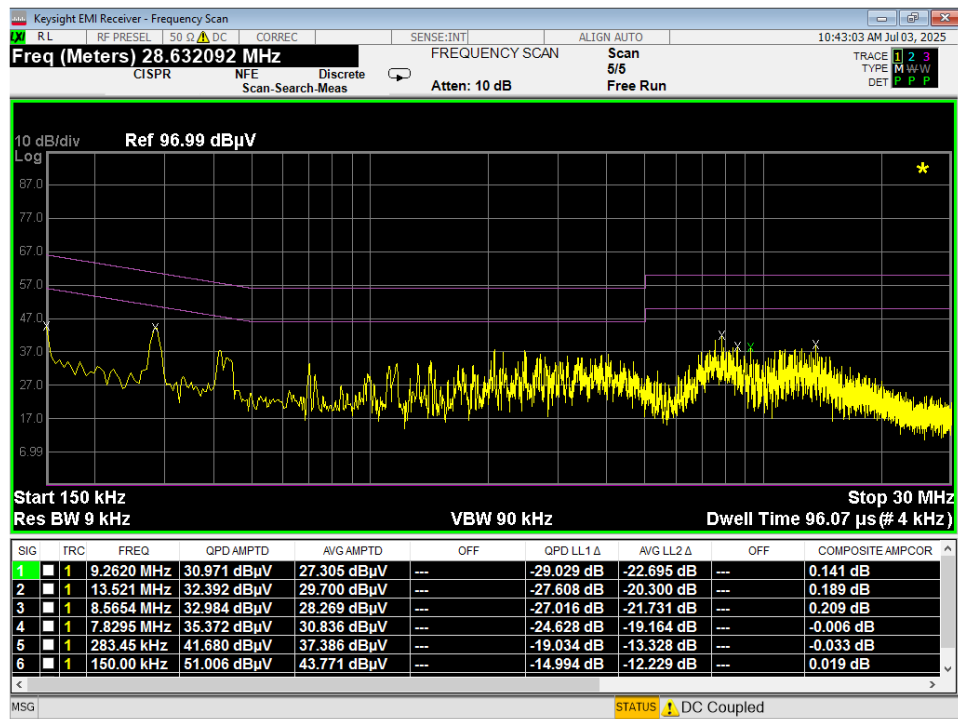


**Figure 7-9. Test Instrument & Measurement Setup**

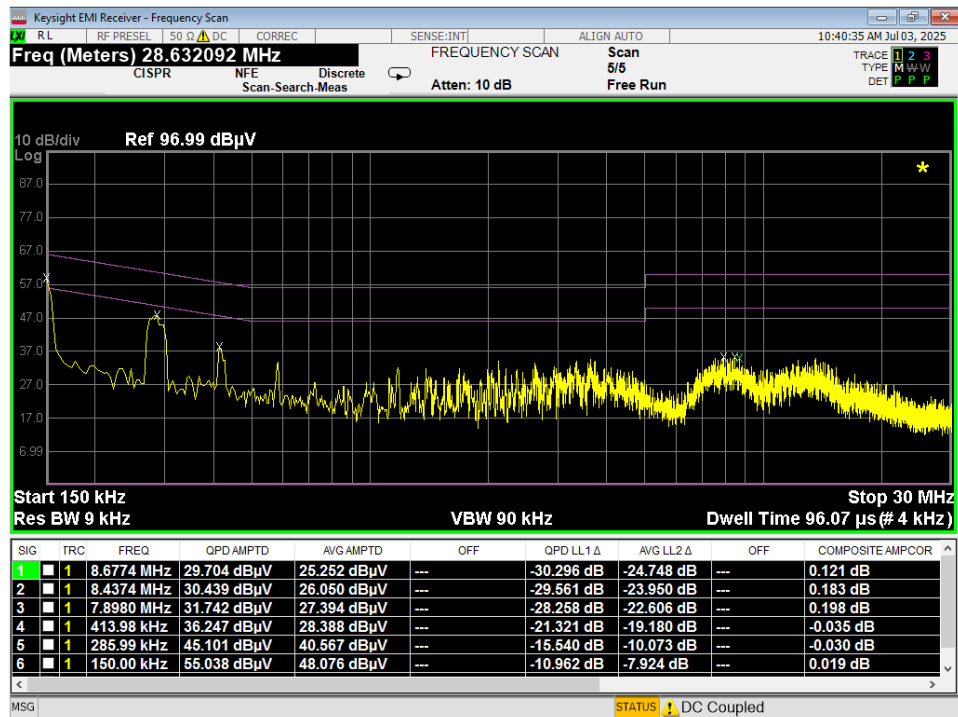
## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 91 of 97                     |



Plot 7-124. Line Conducted Plot with 802.11b (L1)



Plot 7-125. Line Conducted Plot with 802.11b (N)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 92 of 97                     |

## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX730, IC:649E-SMX730** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the ISED Canada Rules. The data referenced from FCC ID: A3LSMX736B (Model SM-X736B) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMX730, IC: 649E-SMX730**.

|                                                    |                                       |                                     |                                          |
|----------------------------------------------------|---------------------------------------|-------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMX730<br><b>IC:</b> 649E-SMX730 | <b>MEASUREMENT REPORT</b>             |                                     | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2505130049-05.A3L     | <b>Test Dates:</b><br>6/3 - 7/17/2025 | <b>EUT Type:</b><br>Portable Tablet | Page 93 of 97                            |

## 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 C63.10-2020.

### 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.

### Results

| FCC Rules    | Test Item                                      | Test Case                             | Units  | Limit | Reference Model:<br>SM-X736B | Variant Model:<br>SM-X730 | Deviation<br>(dB) | Max<br>Deviation<br>(dB) | Pass/Fail |
|--------------|------------------------------------------------|---------------------------------------|--------|-------|------------------------------|---------------------------|-------------------|--------------------------|-----------|
| 15.247(b)(3) | Conducted Output Power                         | 802.11g MIMO Ch.6 - Average           | dBm    | N/A   | 20.39                        | 20.33                     | -0.06             | 1                        | PASS      |
| 15.247(e)    | Power Spectral Density                         | 802.11g MIMO Ch.6                     | dBm    | 8     | 0.99                         | 1.12                      | 0.13              | 1                        | PASS      |
| 15.247(d)    | Conducted Out-of-Band Emissions<br>(Band Edge) | 802.11n MIMO Ch.2                     | dBc    | >30   | 32.69 / 40.42                | 32.13 / 41.15             | 0.56/-0.73        | 3                        | PASS      |
| 15.209       | Radiated Spurious Emissions                    | 802.11b MIMO Ch.6 - 7311MHz - Average | dBuV/m | 53.98 | 36.52                        | 36.8                      | 0.28              | 3                        | PASS      |
| 15.209       | Radiated Band Edge Emissions                   | 802.11n MIMO Ch.11 - Average          | dBm    | 53.98 | 51.56                        | 48.74                     | -2.82             | 3                        | PASS      |

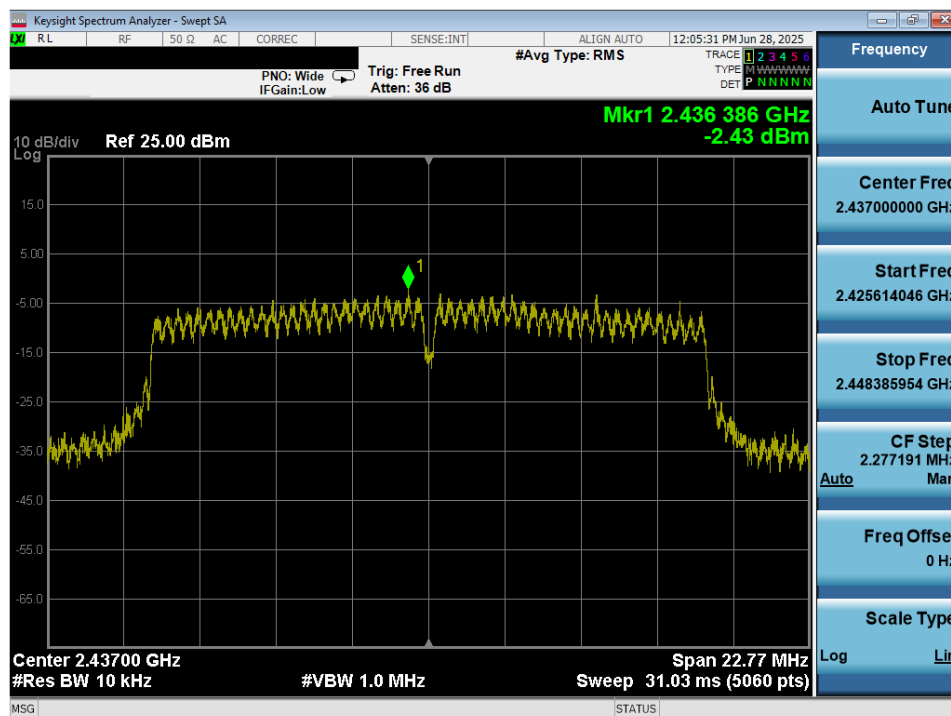
**Table 9-1. Summary of Spot-checks**

### Conducted Spot-Checks – SM-X730

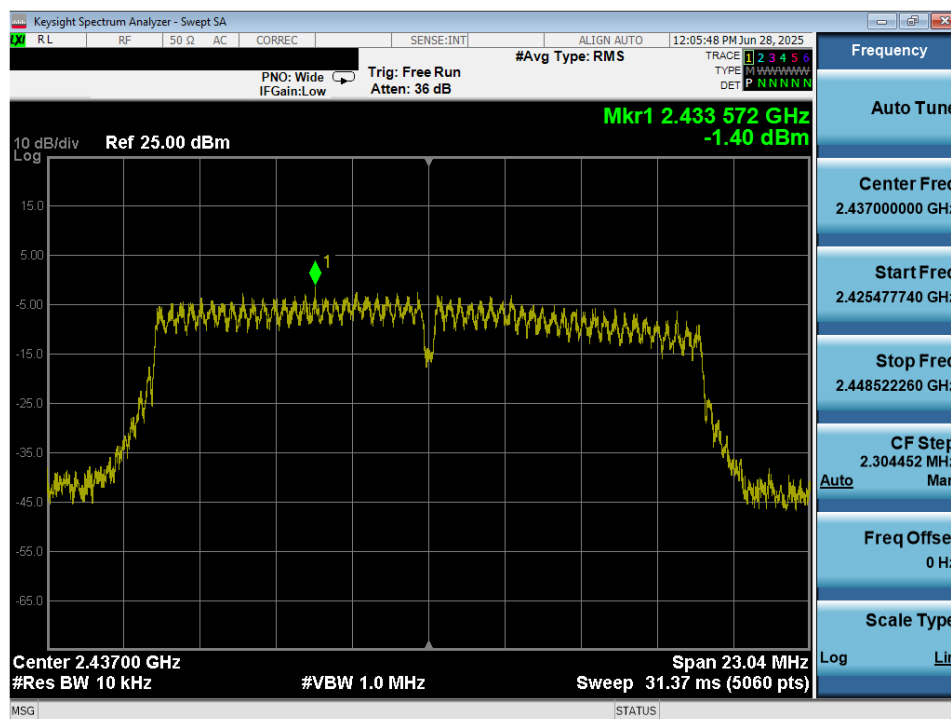
| 2.4GHz WIFI (20MHz 802.11g MIMO) |         |          |                       |       |       | Conducted<br>Power Limit<br>[dBm] | Conducted<br>Power Margin<br>[dB] | Directional<br>Ant. Gain<br>[dBi] | Max e.i.r.p<br>[dBm] | e.i.r.p Limit<br>[dBm] | e.i.r.p Margin<br>[dB] |
|----------------------------------|---------|----------|-----------------------|-------|-------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------|------------------------|------------------------|
| Freq<br>[MHz]                    | Channel | Detector | Conducted Power [dBm] |       |       |                                   |                                   |                                   |                      |                        |                        |
|                                  |         |          | ANT1                  | ANT2  | MIMO  |                                   |                                   |                                   |                      |                        |                        |
| 2437                             | 6       | Average  | 17.11                 | 17.52 | 20.33 | 30.00                             | -9.67                             | -2.24                             | 18.09                | 36.02                  | -17.93                 |

**Table 9-2. Conducted Output Power Measurements (Spot-check)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 94 of 97                     |

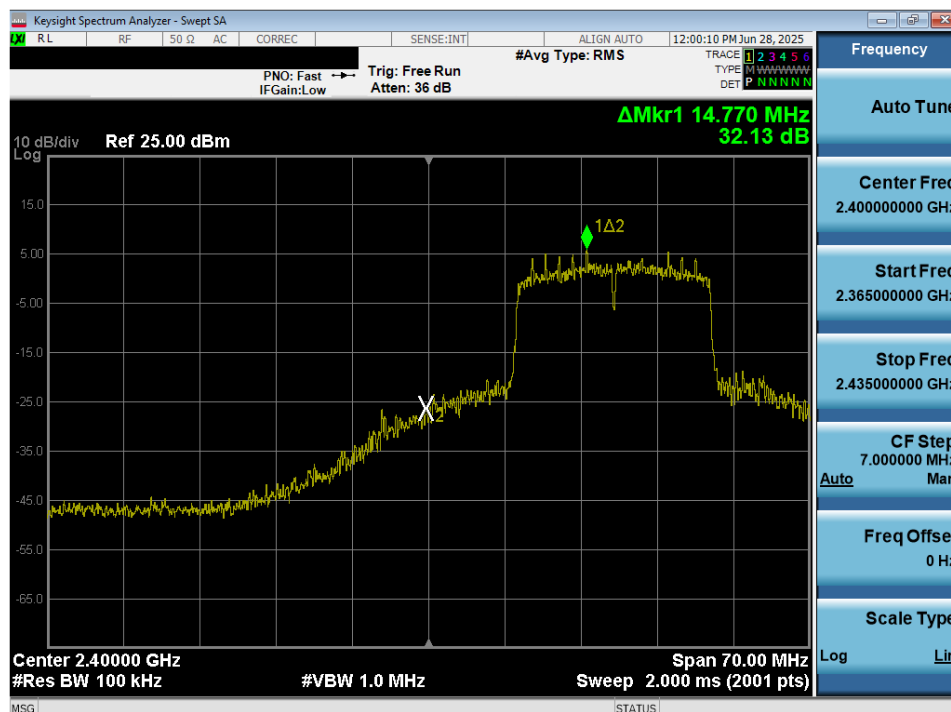


Plot 9-1. Power Spectral Density Plot MIMO ANT1 (802.11g – Ch. 6) (Spot-check)

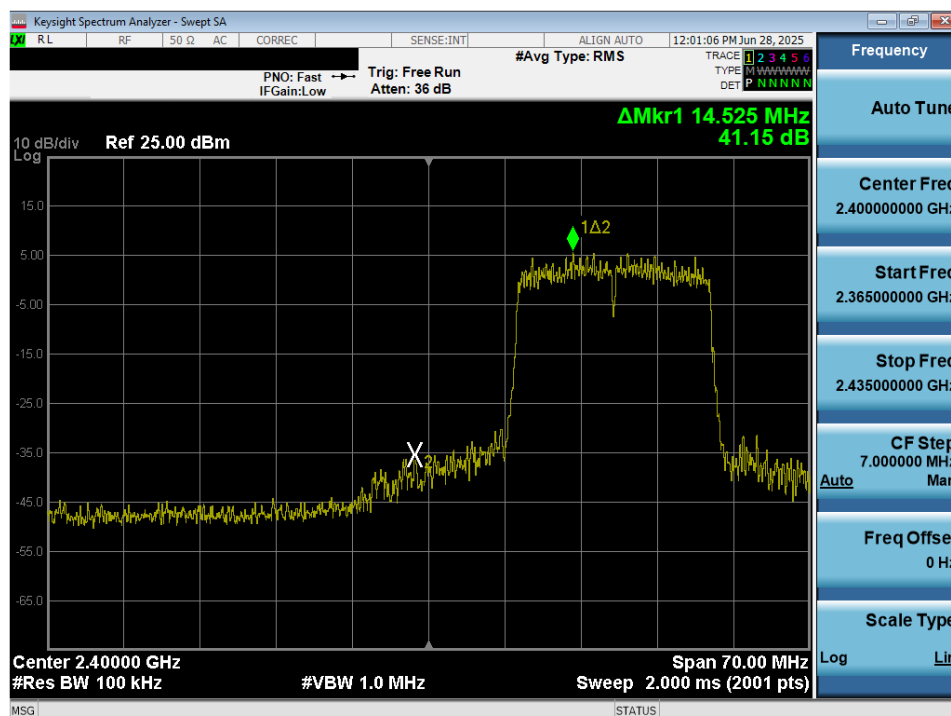


Plot 9-2. Power Spectral Density Plot MIMO ANT2 (802.11g – Ch. 6) (Spot-check)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 95 of 97                     |



Plot 9-3. Band Edge Plot MIMO ANT1 (802.11n (2.4GHz) – Ch. 2) (Spot-check)



Plot 9-4. Band Edge Plot MIMO ANT2 (802.11n (2.4GHz) – Ch. 2) (Spot-check)

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 96 of 97                     |

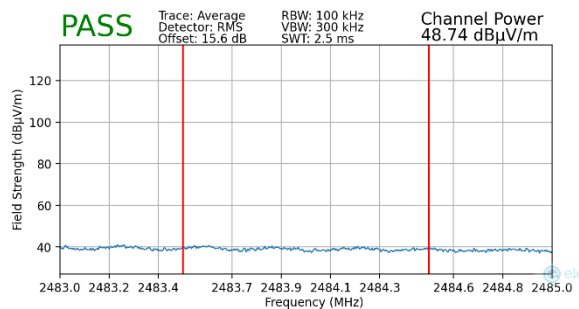
### Radiated Spot- Checks – SM-X730

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11b  |
| Worst Case Transfer Rate: | 1 Mbps   |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2437MHz  |
| Channel:                  | 6        |

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 7311.00         | Avg      | H               | -                   | -                          | -79.58               | 9.38        | 0.00                            | 36.80                   | 53.98          | -17.18      |

**Table 9-3. RSE Measurements (Spot-check)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11g  |
| Worst Case Transfer Rate: | 6Mbps    |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 2462MHz  |
| Channel:                  | 11       |



**Plot 9-5. Radiated Restricted Upper Band Edge Measurement MIMO (Average) (Spot-check)**

|                                         |                                |                              |                                   |
|-----------------------------------------|--------------------------------|------------------------------|-----------------------------------|
| FCC ID: A3LSMX730<br>IC: 649E-SMX730    | MEASUREMENT REPORT             |                              | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2505130049-05.A3L | Test Dates:<br>6/3 - 7/17/2025 | EUT Type:<br>Portable Tablet | Page 97 of 97                     |