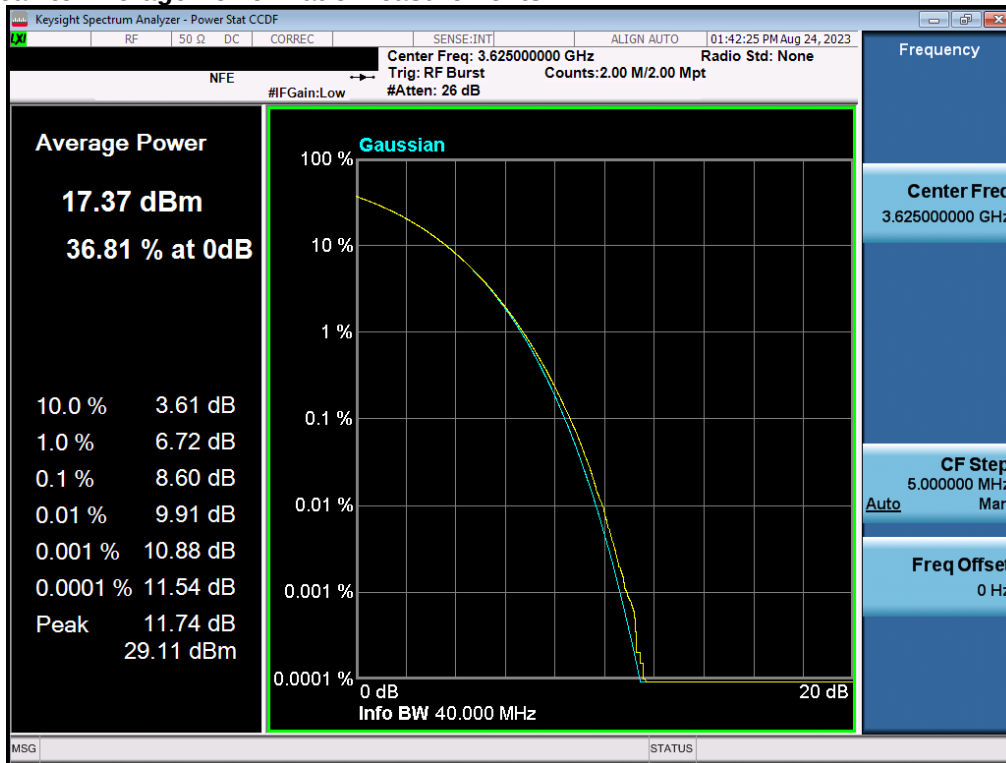
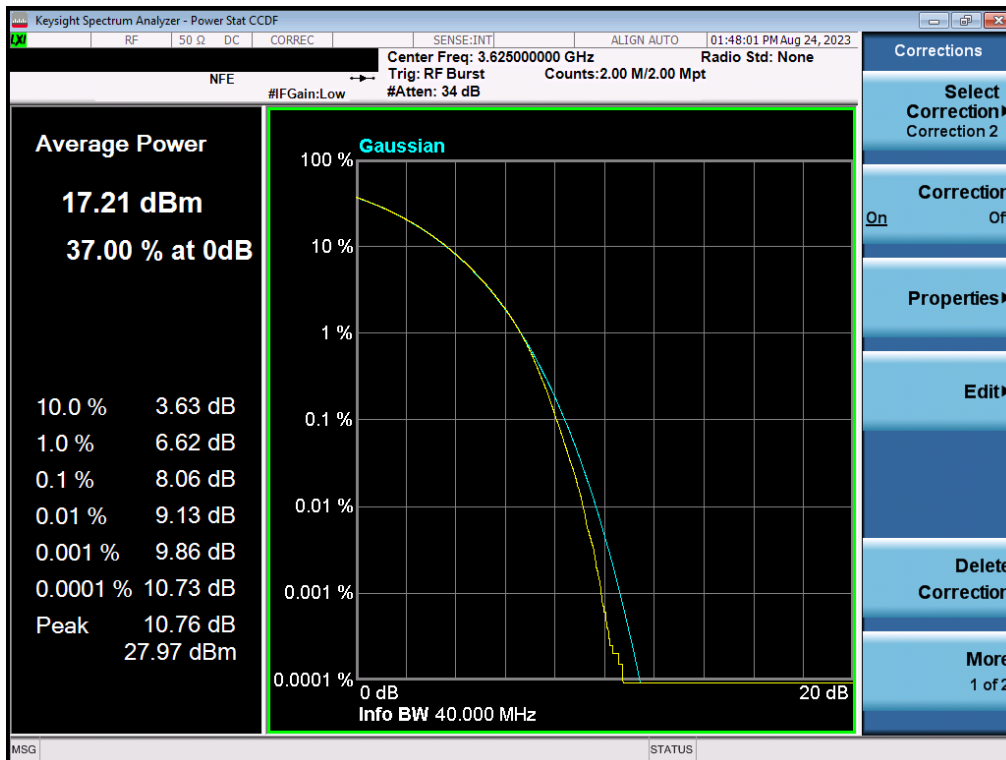


## Channel B Peak to Average Power Ratio Measurements

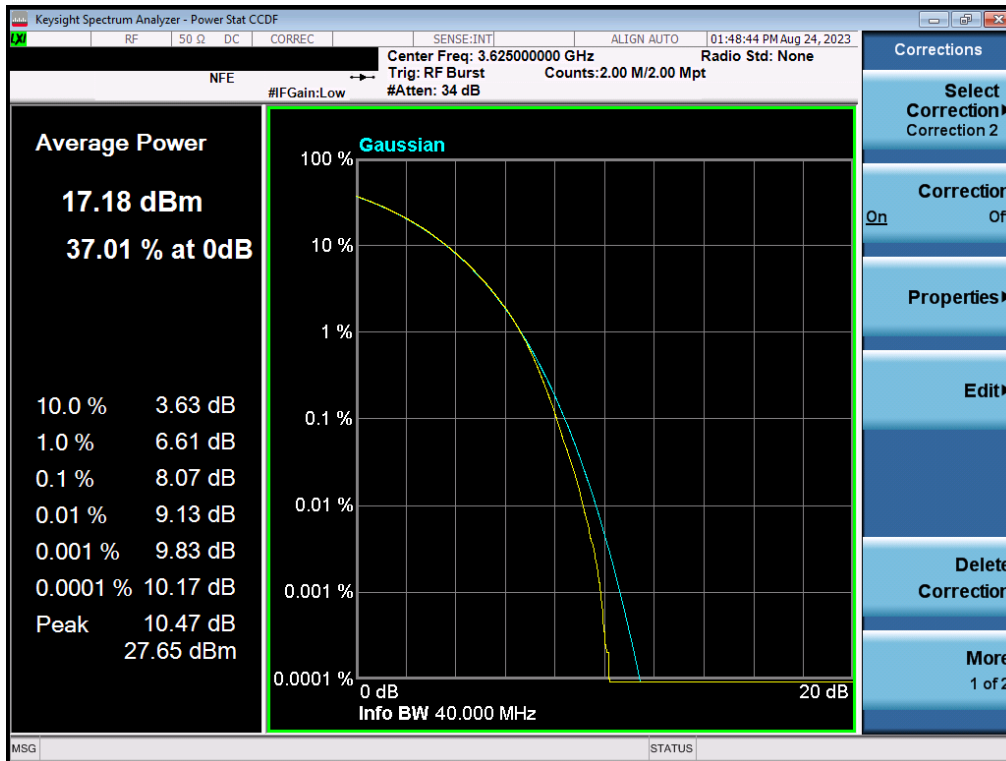


Plot 7.113. Peak to Average Power Ratio Plot (40MHz, QPSK – Mid Channel) – Ch.B

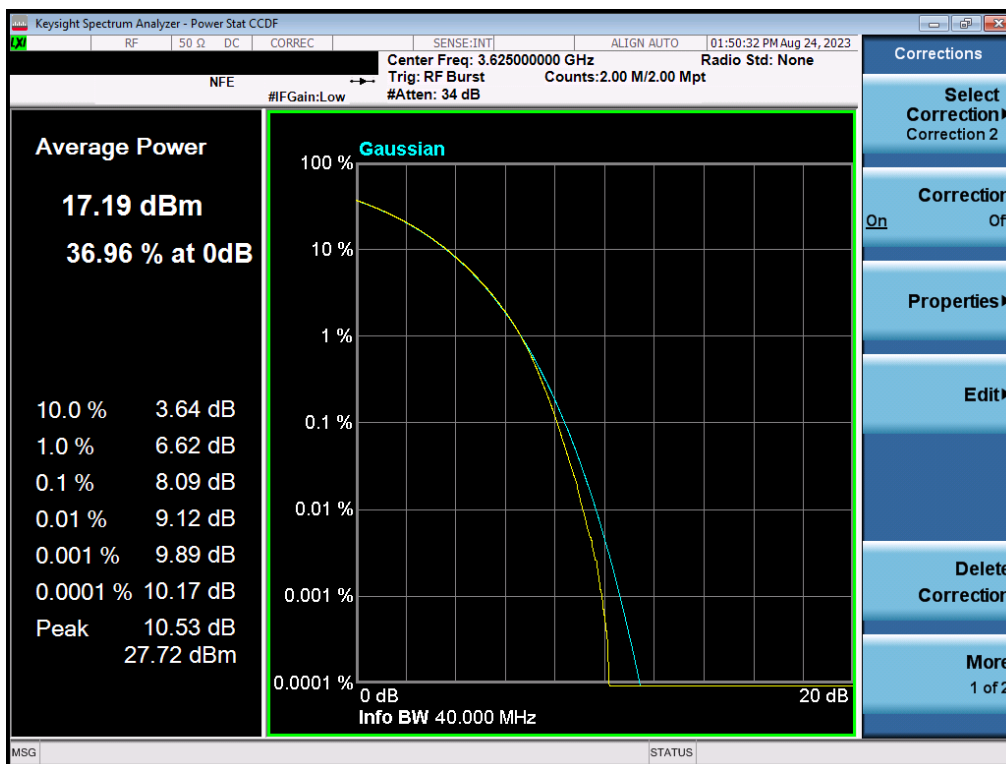


Plot 7.114. Peak to Average Power Ratio Plot (40MHz, 16QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 78 of 124                    |

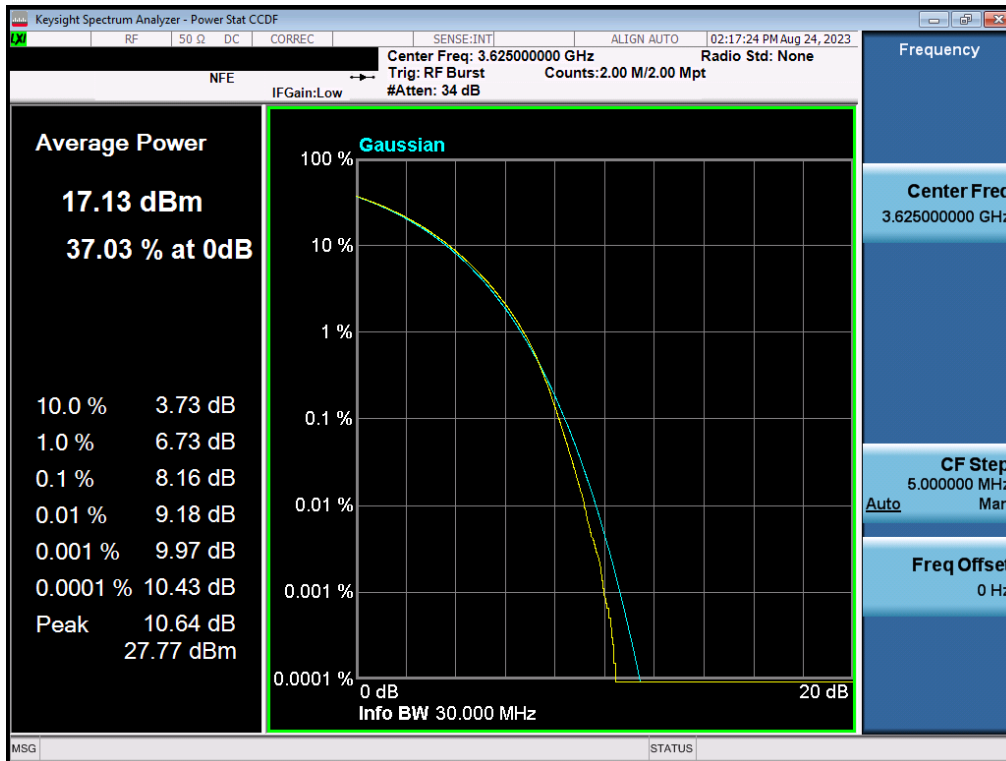


Plot 7.115. Peak to Average Power Ratio Plot (40MHz, 64QAM – Mid Channel) – Ch.B

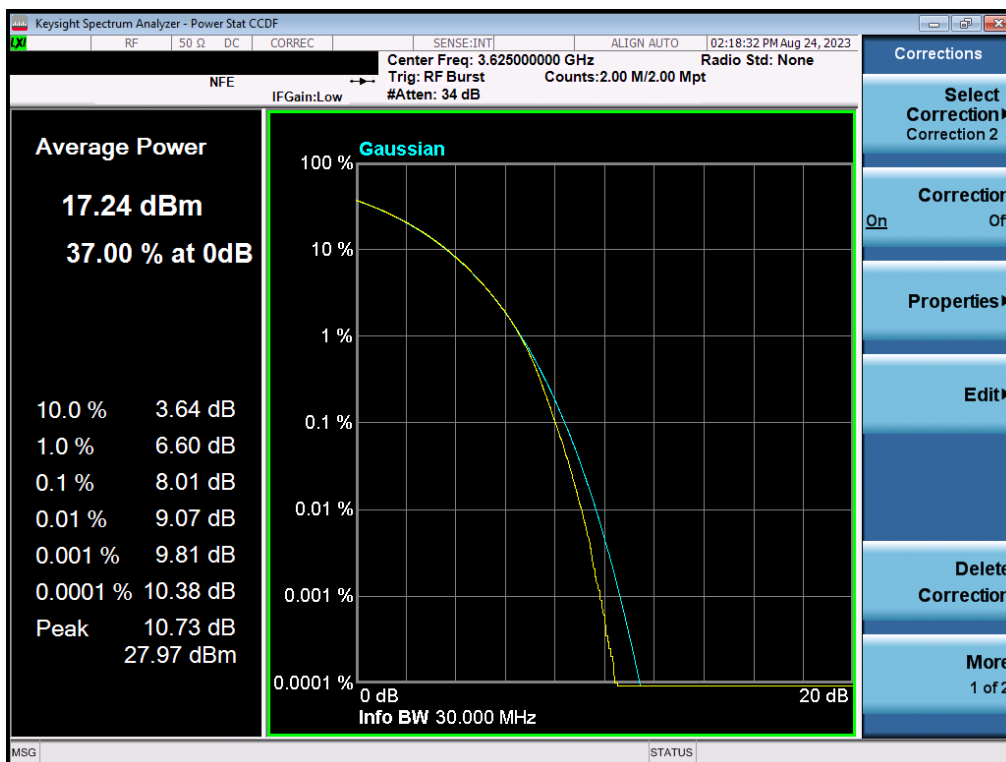


Plot 7.116. Peak to Average Power Ratio Plot (40MHz, 256QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 79 of 124                    |



Plot 7.117. Peak to Average Power Ratio Plot (30MHz, QPSK – Mid Channel) – Ch.B

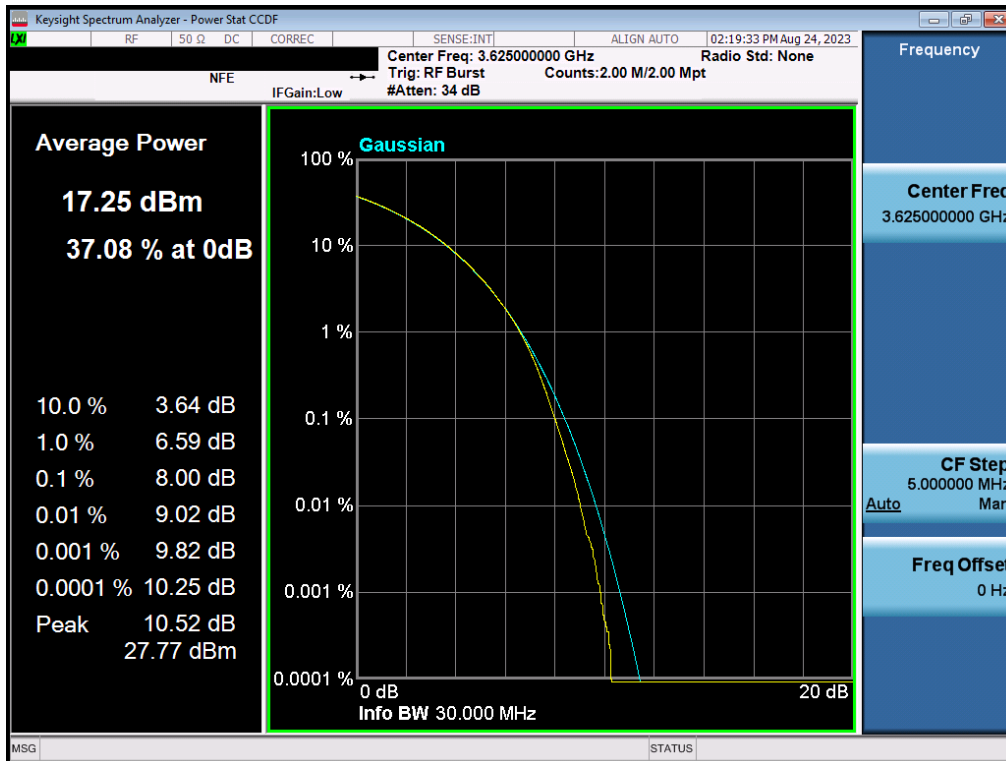


Plot 7.118. Peak to Average Power Ratio Plot (30MHz, 16QAM – Mid Channel) – Ch.B

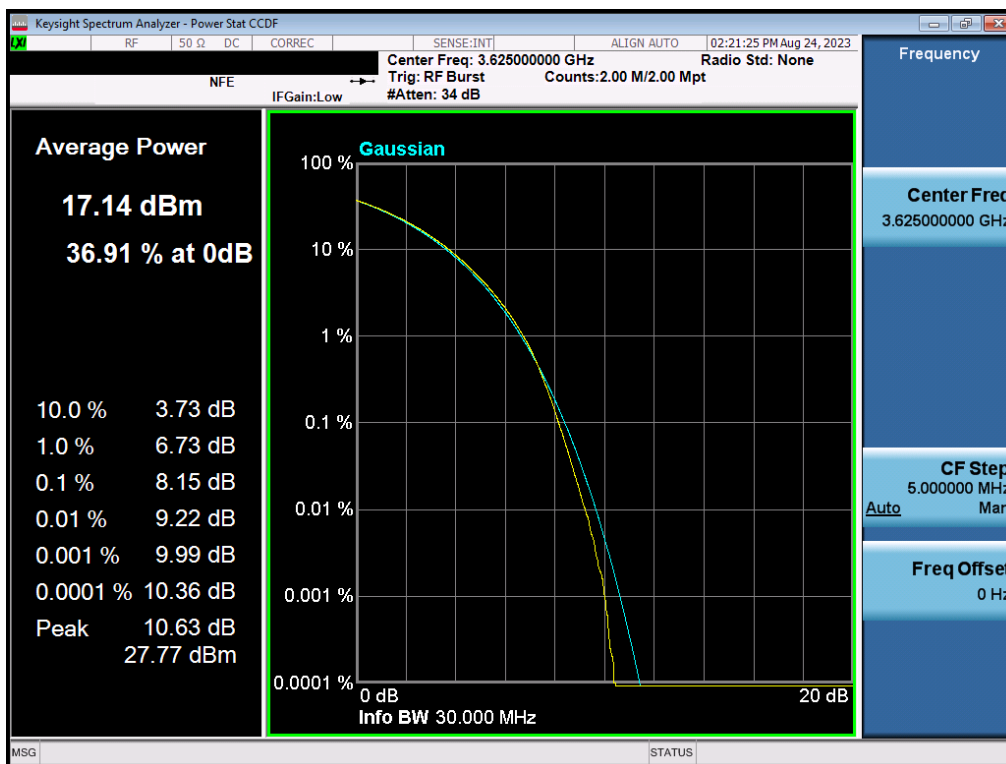
|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 80 of 124                    |

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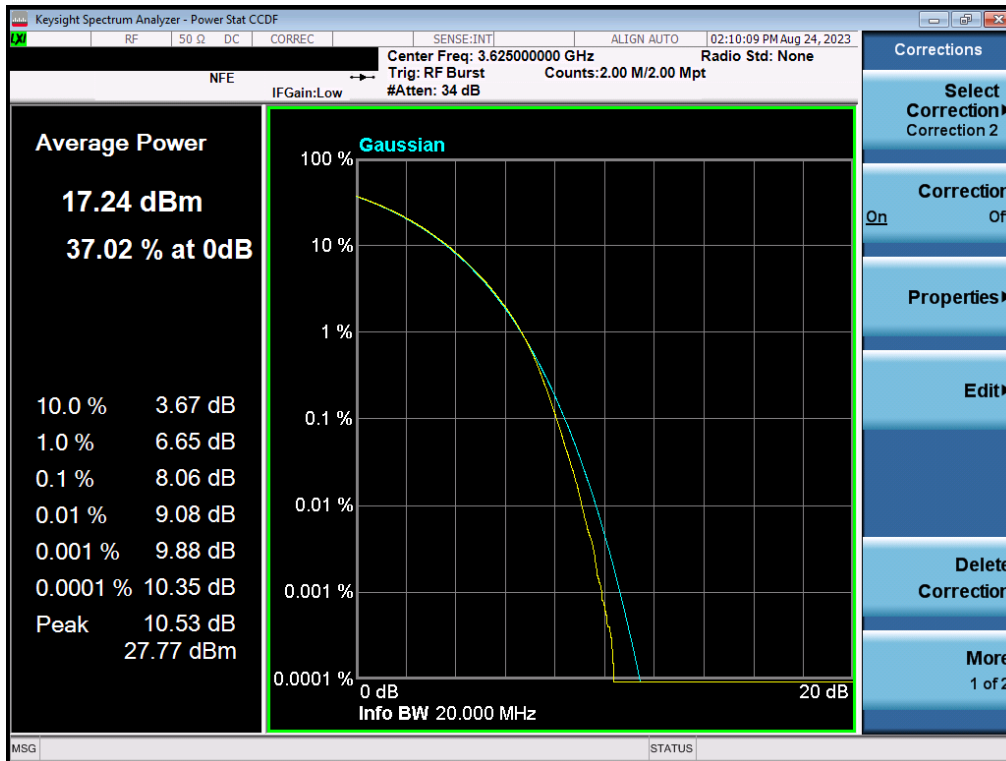
Plot 7.119. Peak to Average Power Ratio Plot (30MHz, 64QAM – Mid Channel) – Ch.B



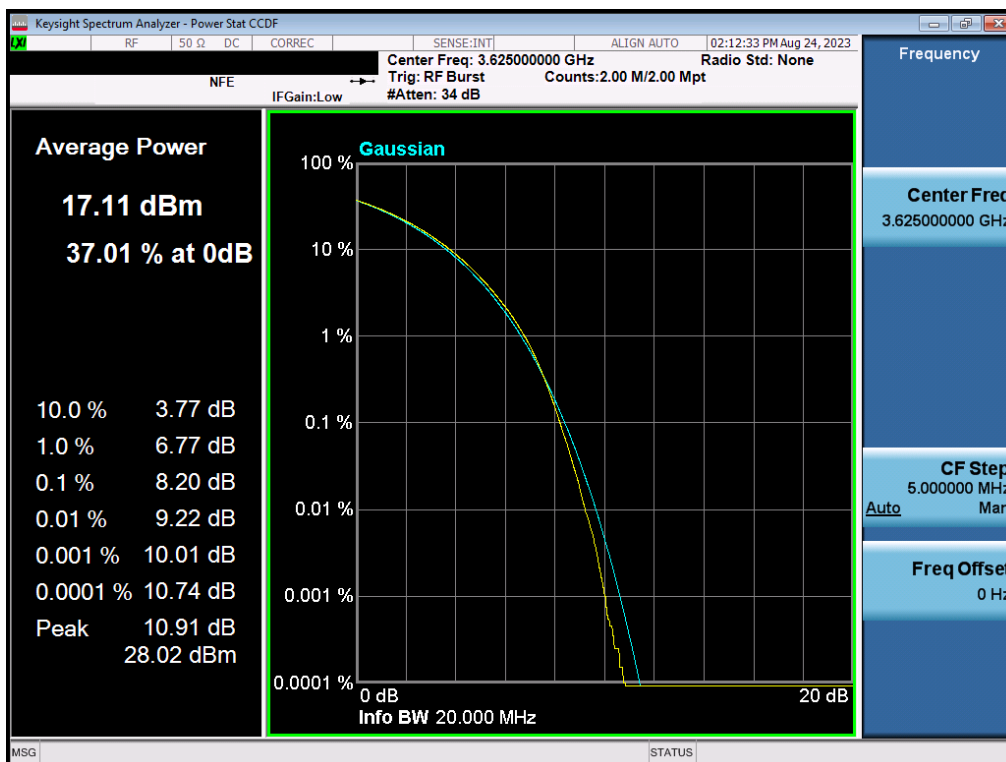
Plot 7.120. Peak to Average Power Ratio Plot (30MHz, 256QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 81 of 124                    |

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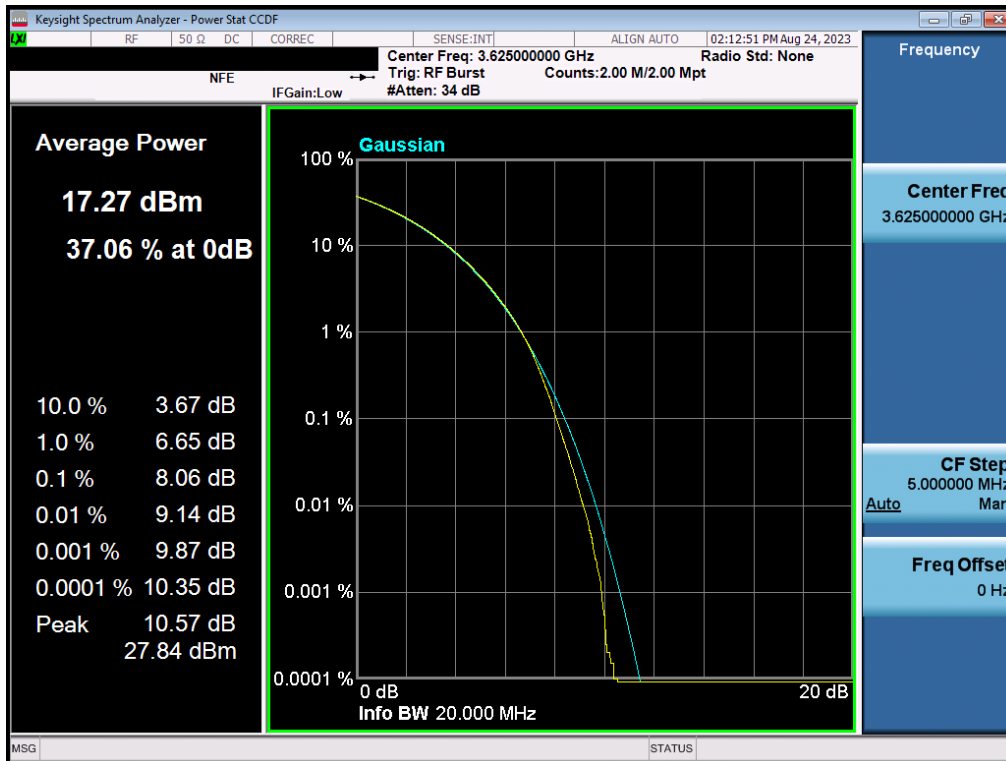


Plot 7.121. Peak to Average Power Ratio Plot (20MHz, QPSK – Mid Channel) – Ch.B

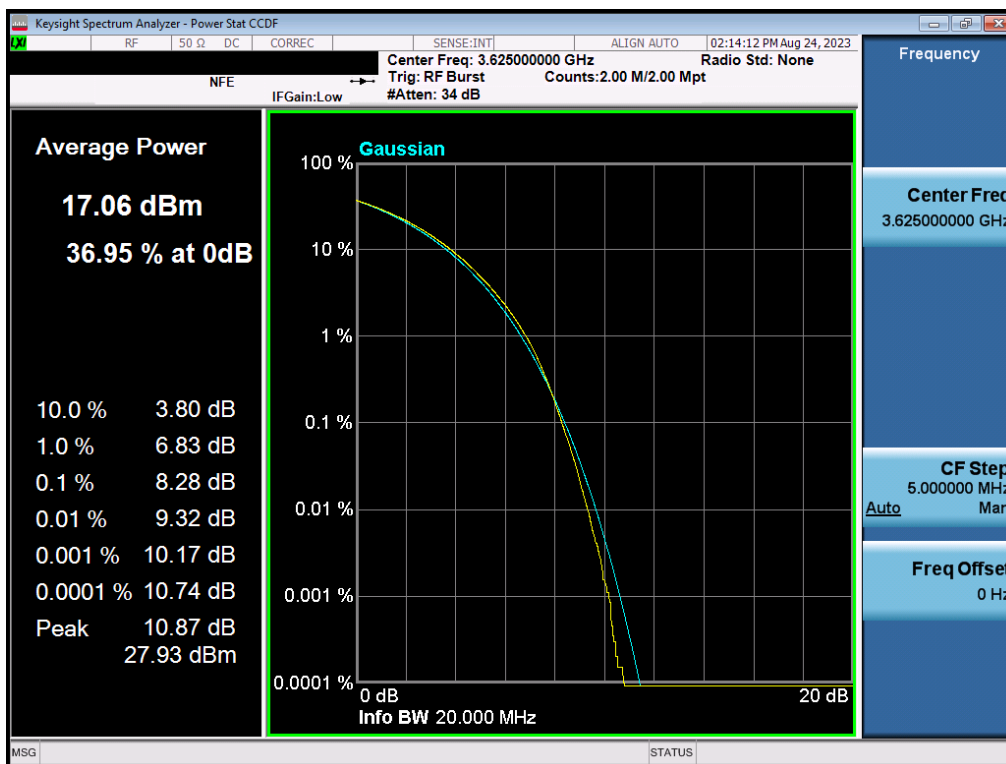


Plot 7.122. Peak to Average Power Ratio Plot (20MHz, 16QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 82 of 124                    |



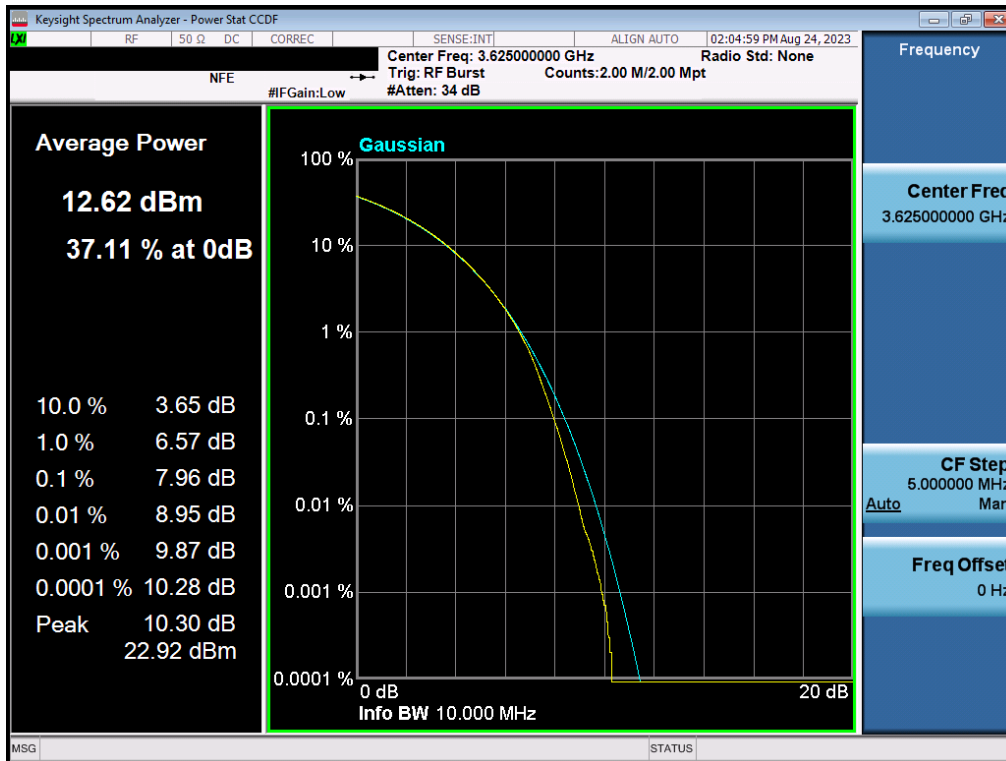
Plot 7.123. Peak to Average Power Ratio Plot (20MHz, 64QAM – Mid Channel) – Ch.B



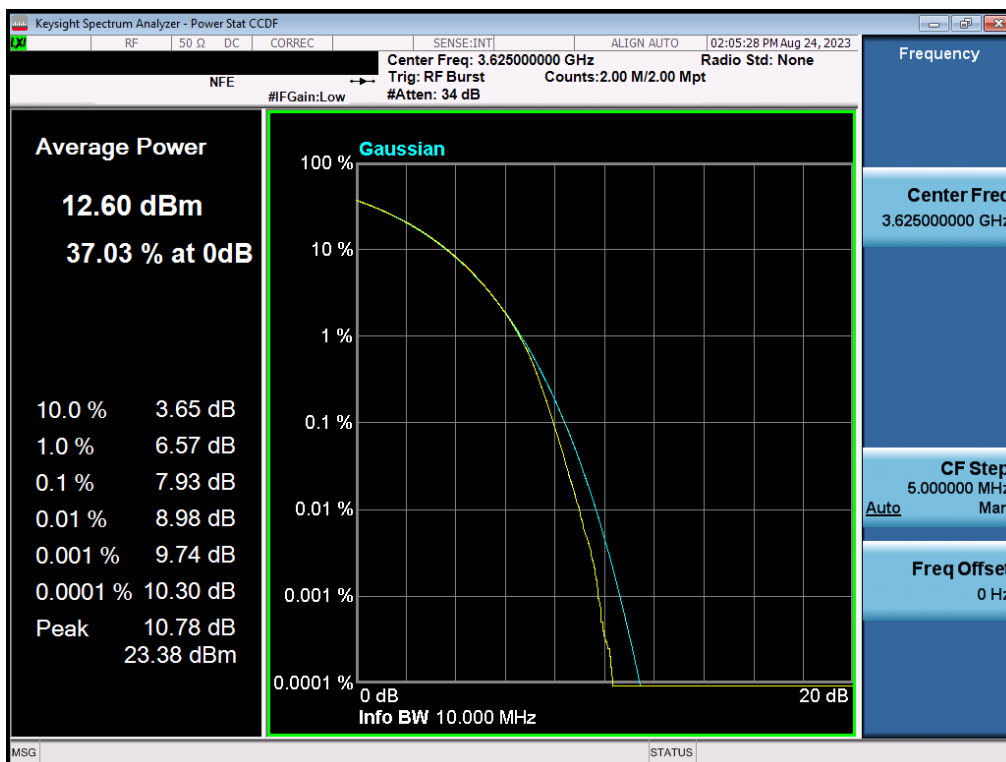
Plot 7.124. Peak to Average Power Ratio Plot (20MHz, 256QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 83 of 124                    |

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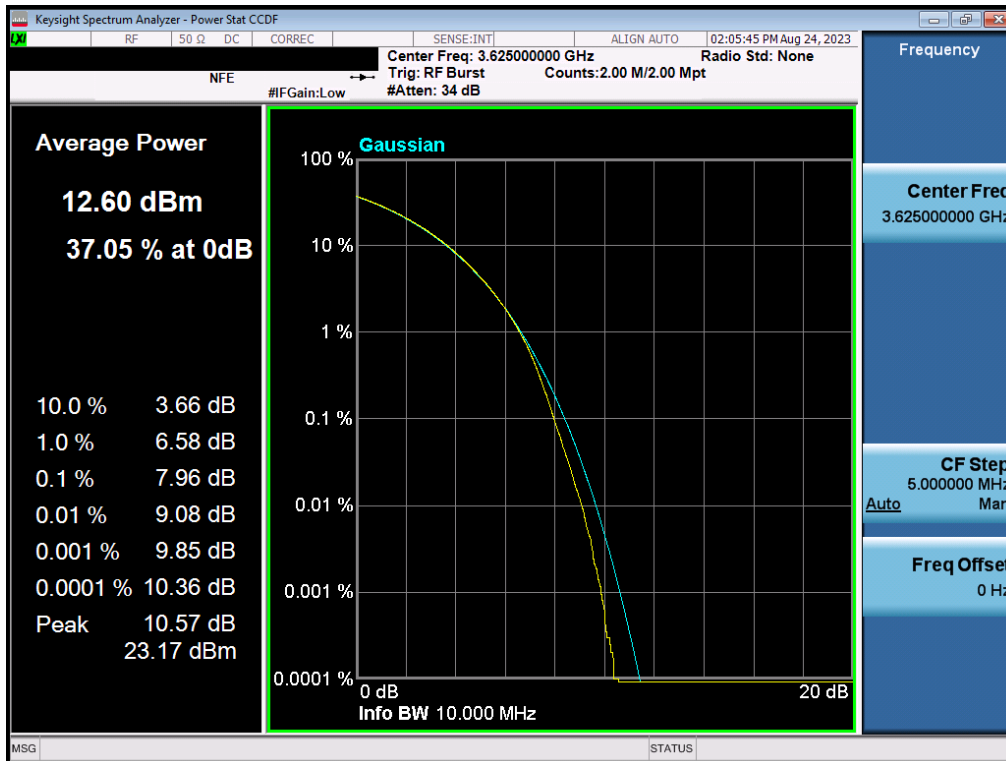
Plot 7.125. Peak to Average Power Ratio Plot (10MHz, QPSK – Mid Channel) – Ch.B



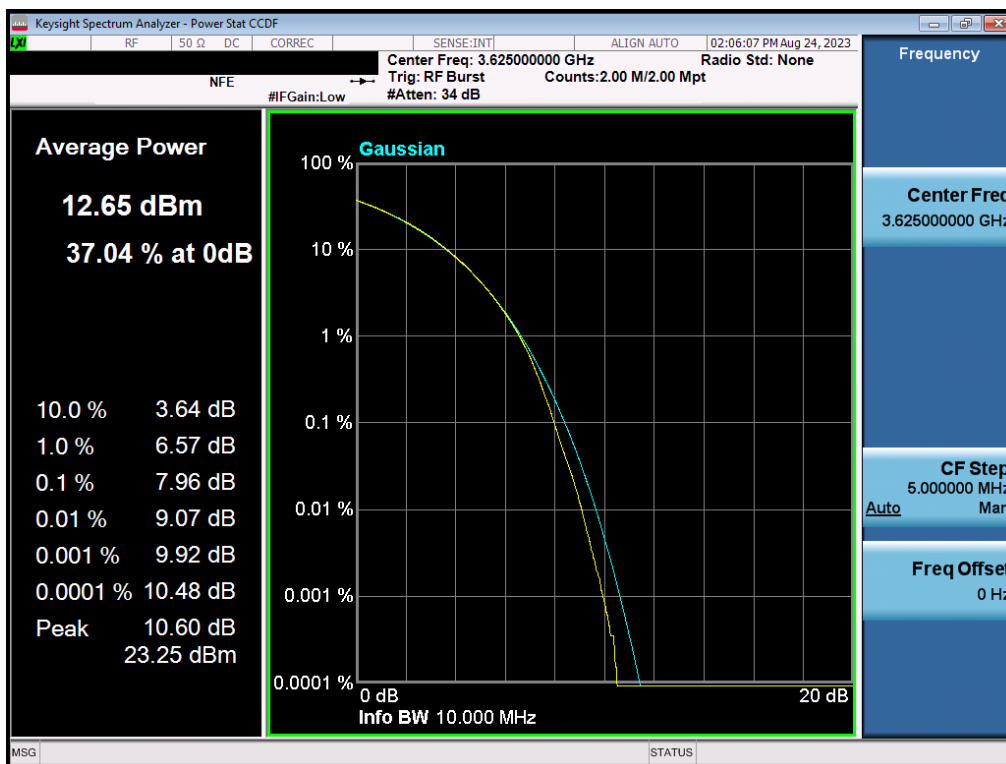
Plot 7.126. Peak to Average Power Ratio Plot (10MHz, 16QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 84 of 124                    |





Plot 7.127. Peak to Average Power Ratio Plot (10MHz, 64QAM – Mid Channel) – Ch.B



Plot 7.128. Peak to Average Power Ratio Plot (10MHz, 256QAM – Mid Channel) – Ch.B

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 85 of 124                    |



## 7.6 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 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 conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/Mhz.***

### 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 at least 10 \* the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = Max Hold
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

### Test Setup

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



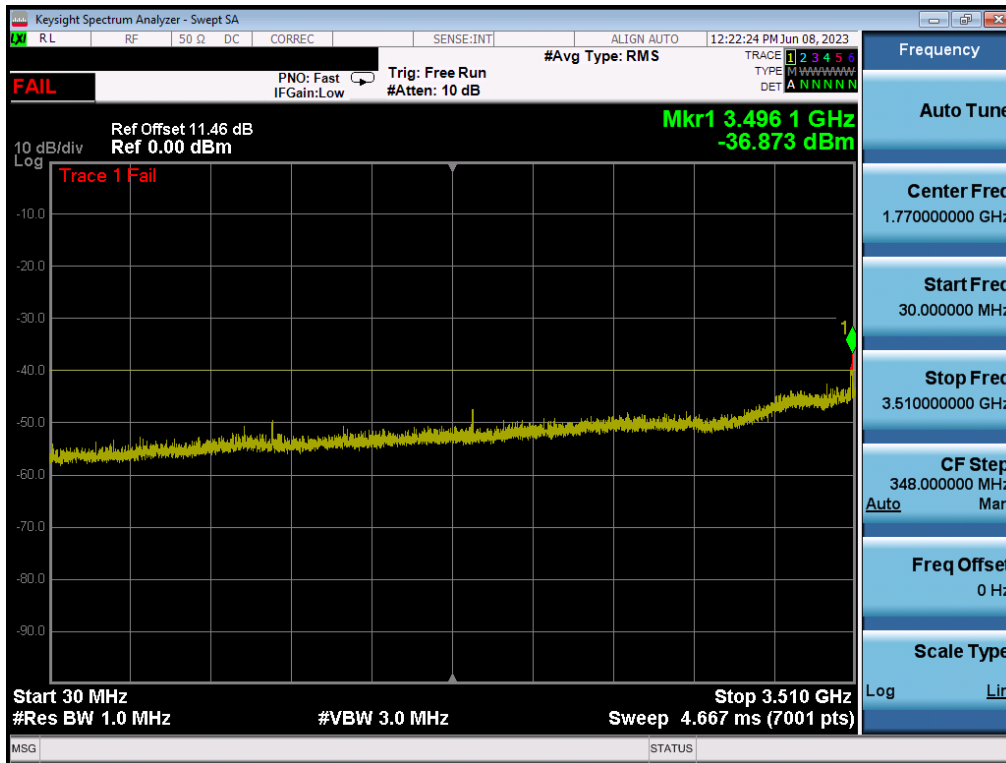
**Figure 7-5. Test Instrument & Measurement Setup**

### Test Notes

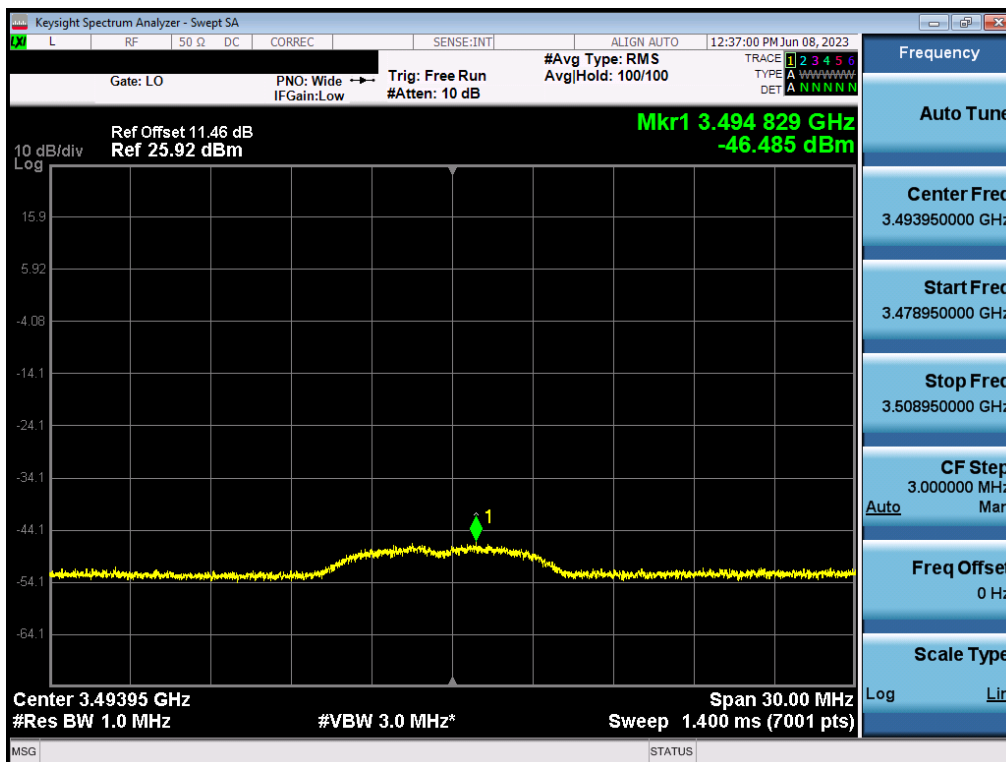
1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. The Plots in this section have a 11.46dB ( $10 \cdot \log(\text{total ports}[14])$ ) correction applied to the individual plots to address the MIMO requirements in ANSI C63.26
3. Any emissions failing in max hold wide spectrum sweeps were found to be passing when more closely examined with gated average measurements

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 86 of 124                    |

## Channel A Conducted Spurious Emissions

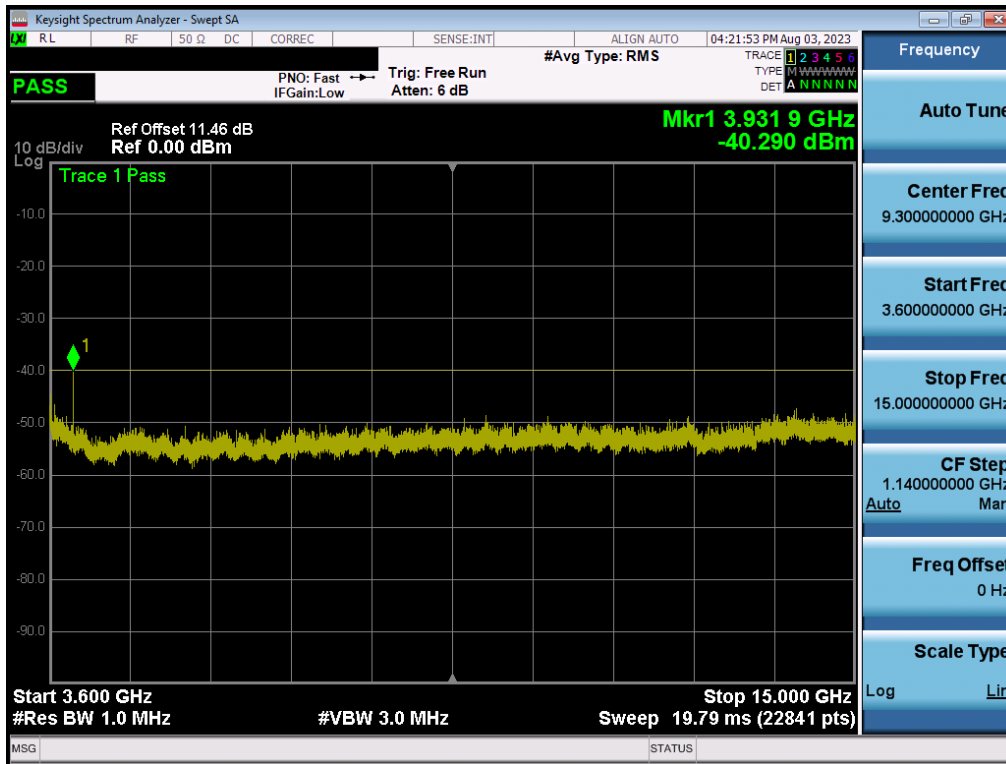


Plot 7.129. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.A)

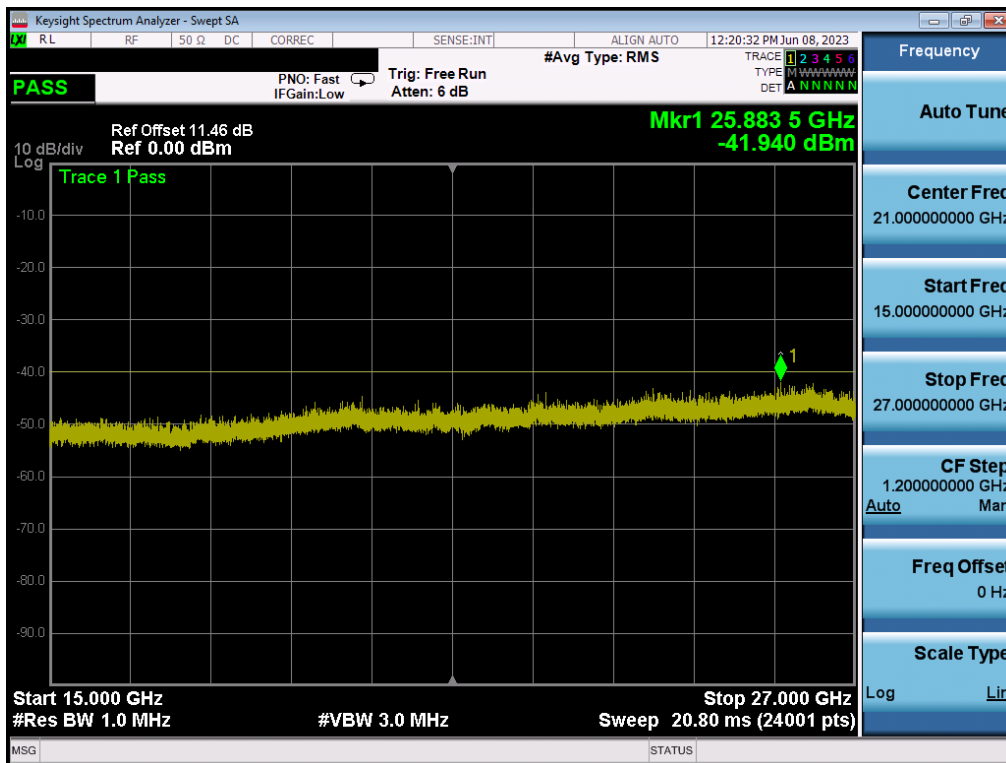


Plot 7.130. Conducted Spurious Plot (10MHz QPSK, Low Channel - 3495 MHz – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 87 of 124                    |

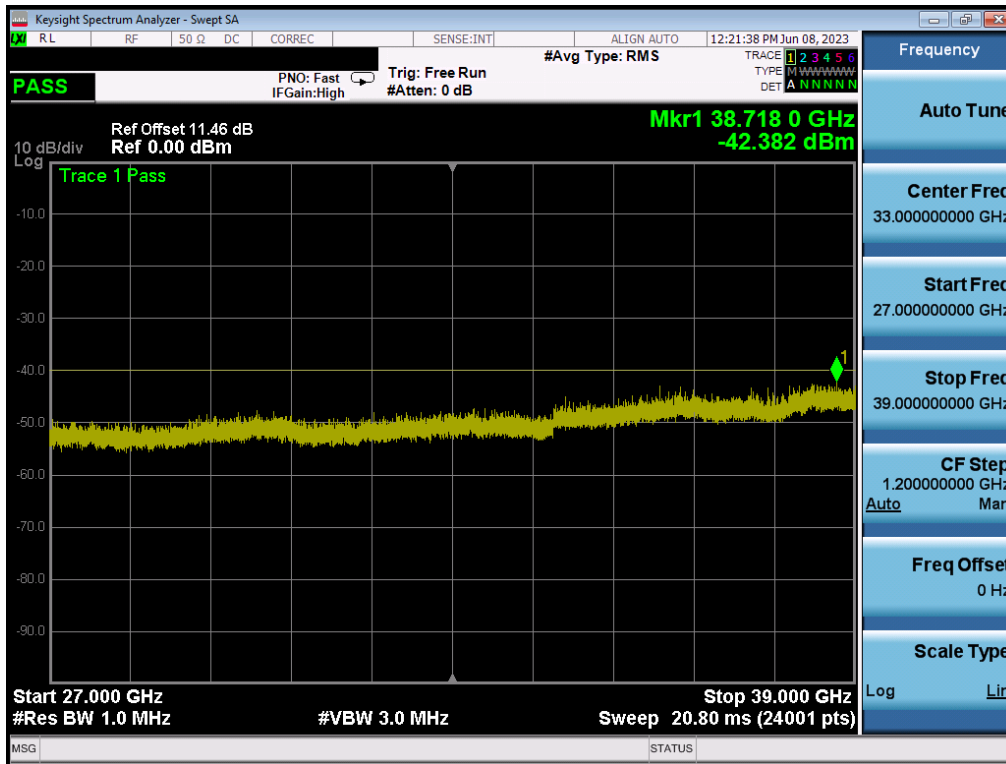


Plot 7.131. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.A)

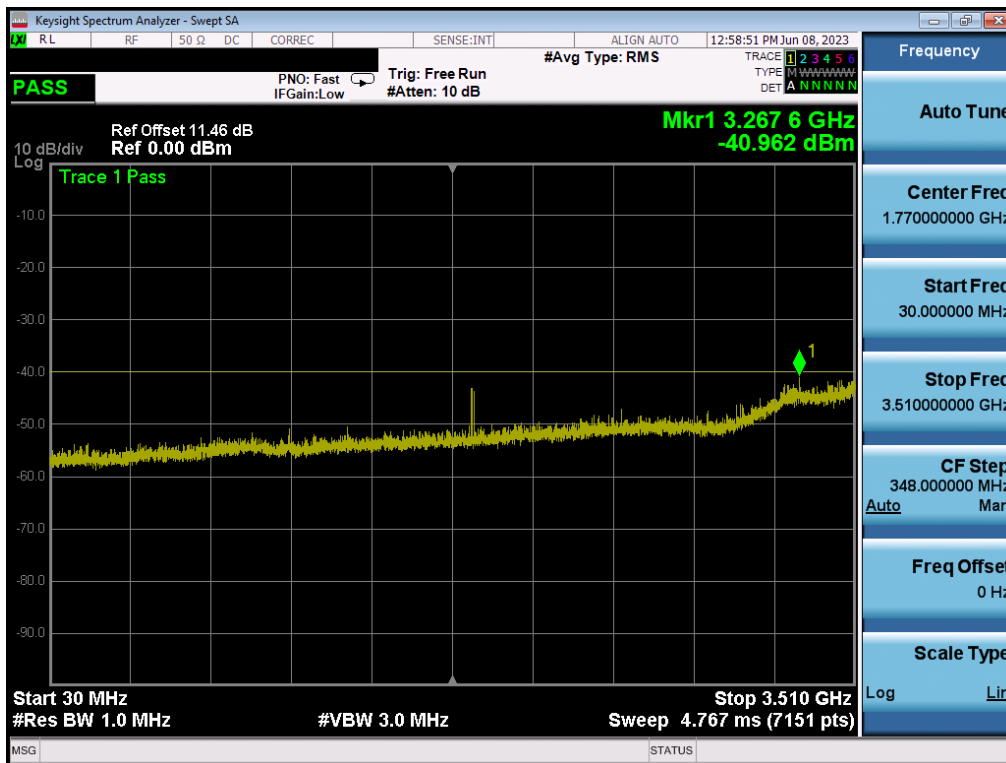


Plot 7.132. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 88 of 124                    |

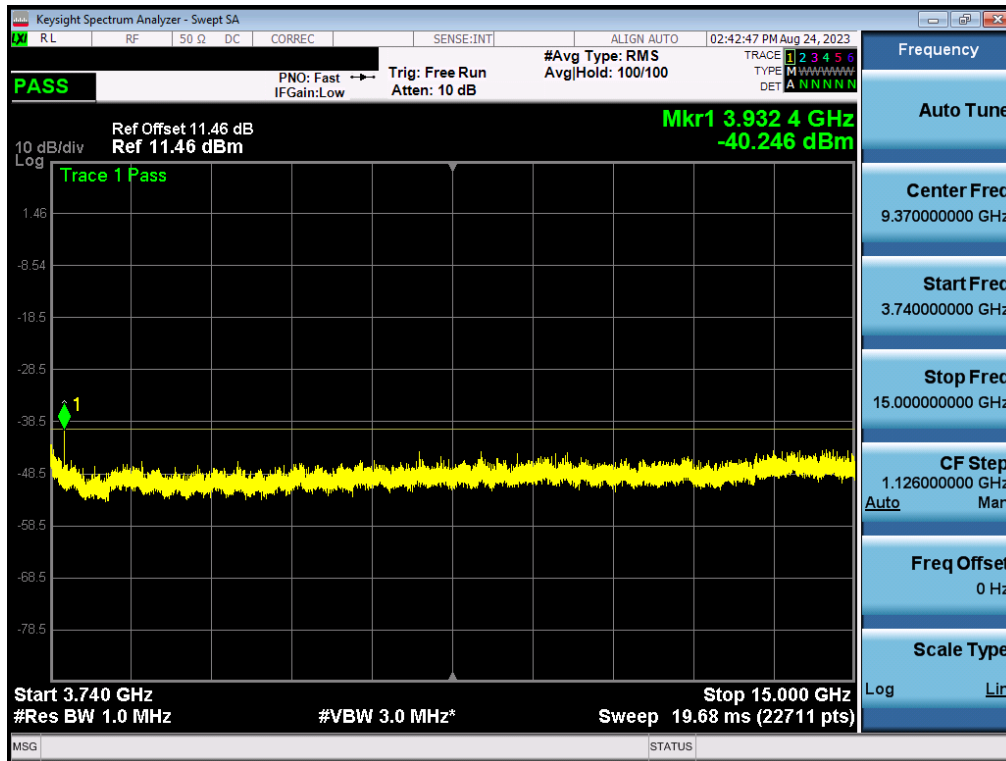


Plot 7.133. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.A)

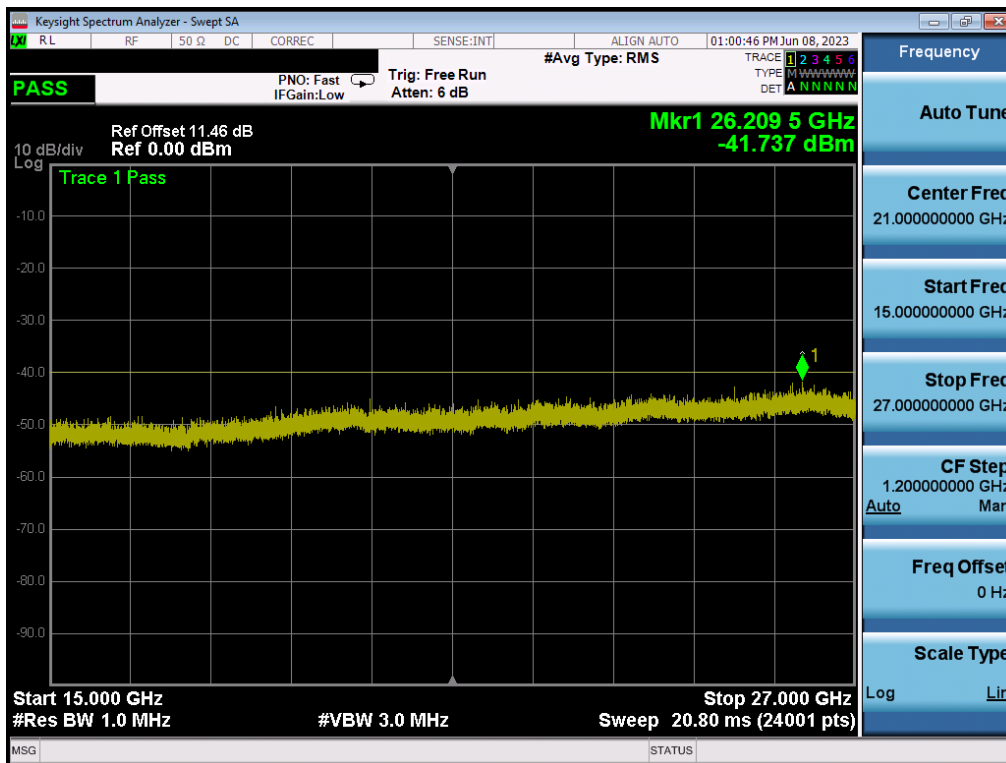


Plot 7.134. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 89 of 124                    |

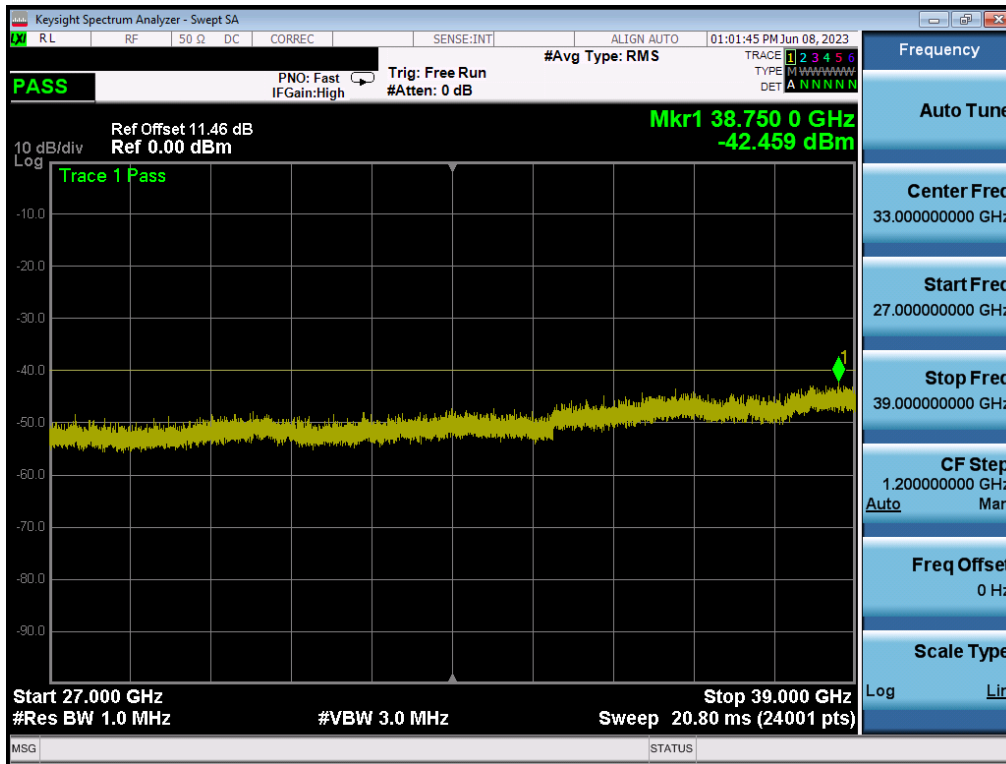


Plot 7.135. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.A)

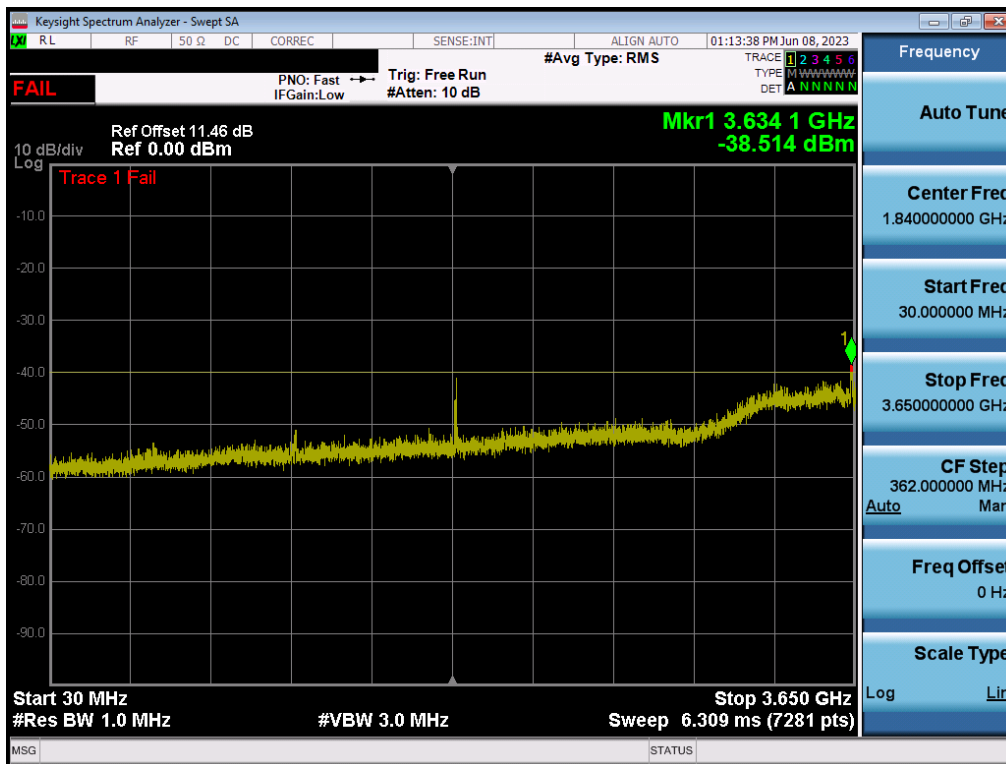


Plot 7.136. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 90 of 124                    |



Plot 7.137. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.A)

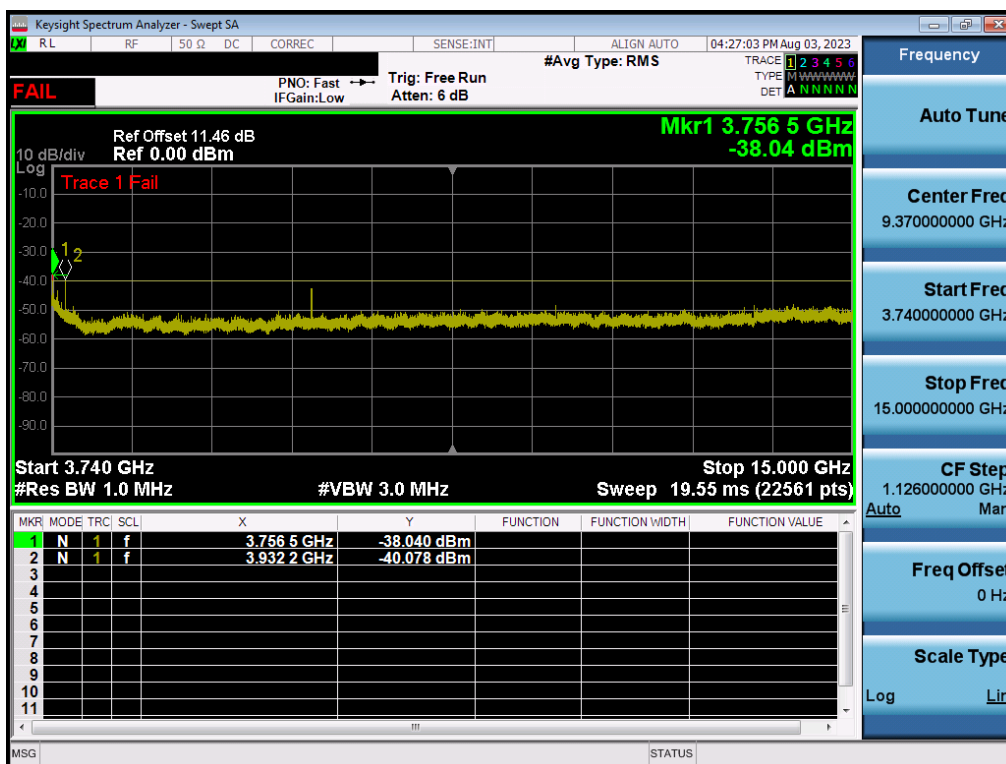


Plot 7.138. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 91 of 124                    |



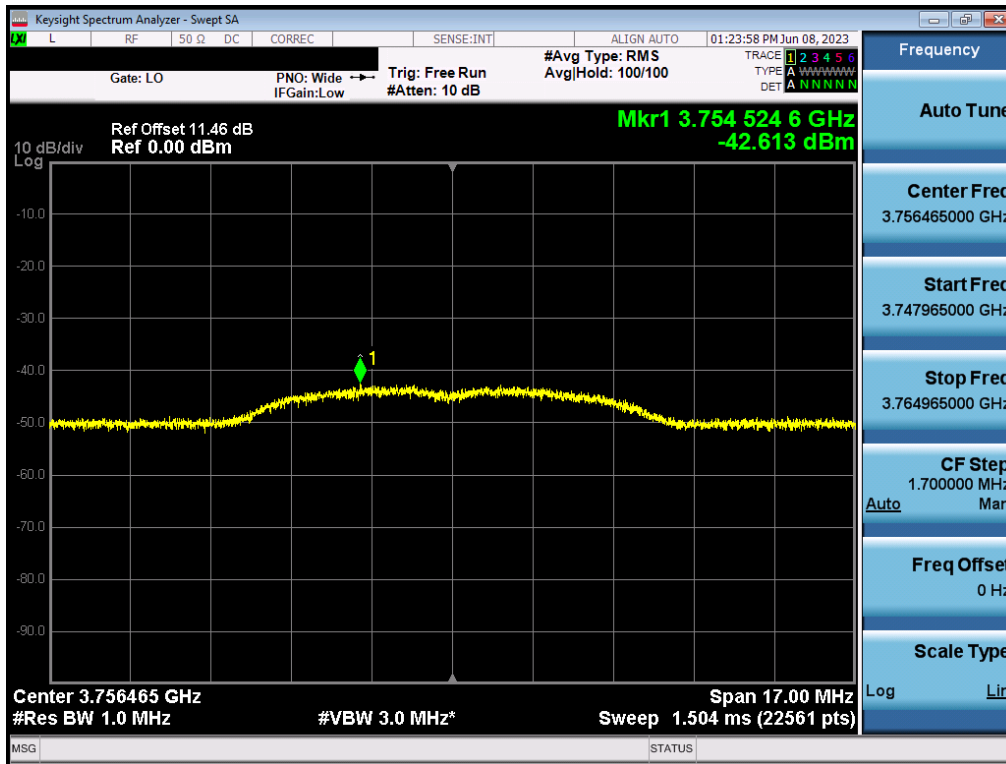
Plot 7.139. Conducted Spurious Plot (10MHz QPSK, High Channel – 3634 MHz - Ch.A)



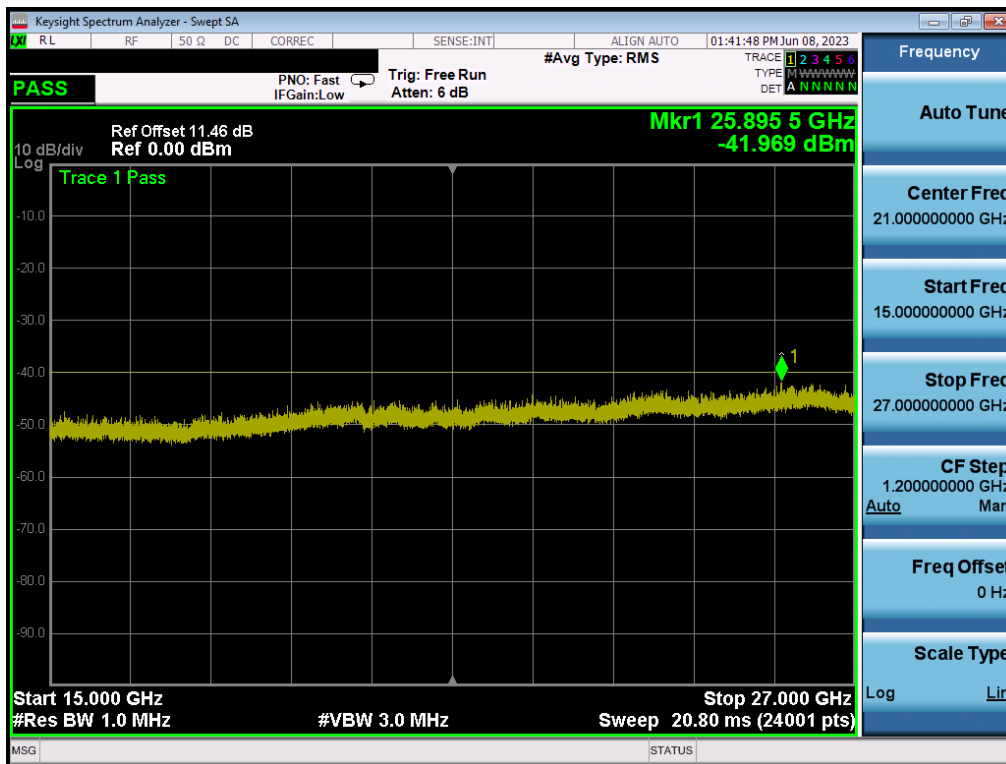
Plot 7.140. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 92 of 124                    |



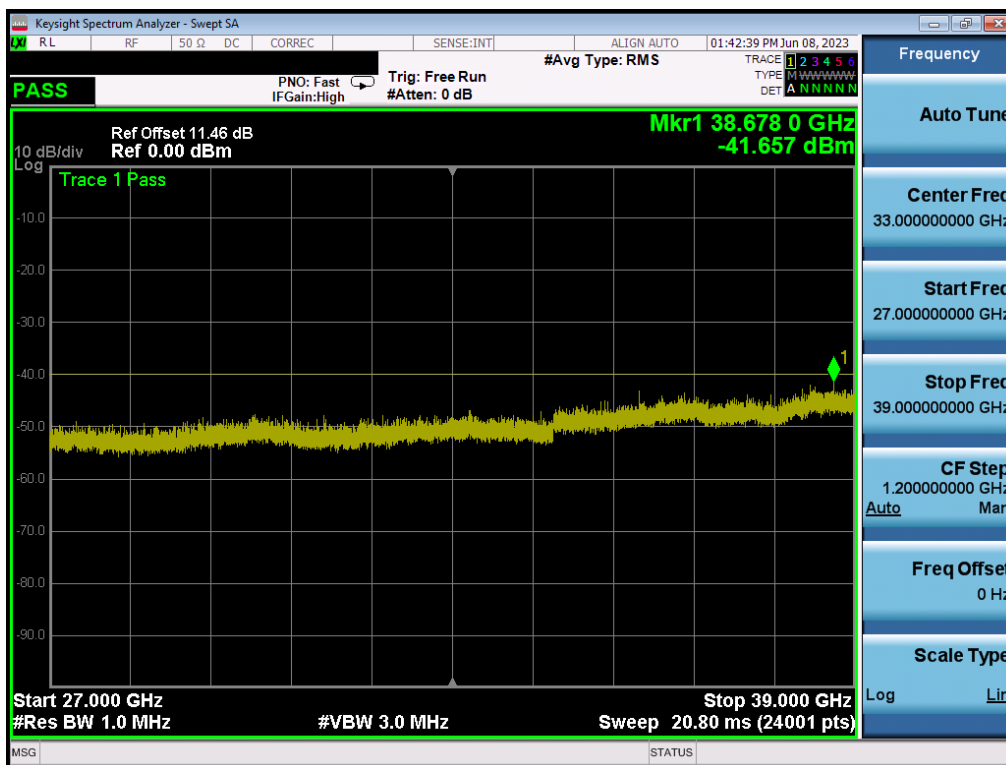


Plot 7.141. Conducted Spurious Plot (10MHz QPSK, High Channel – 3755 MHz Ch.A)



Plot 7.142. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.A)

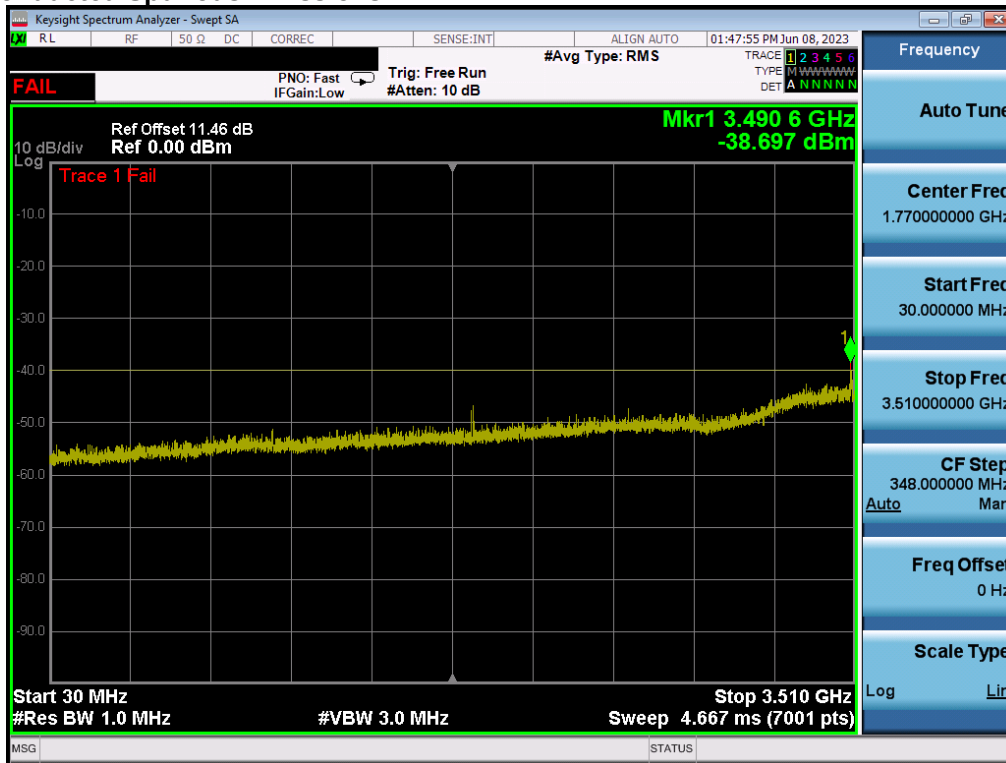
|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 93 of 124                    |



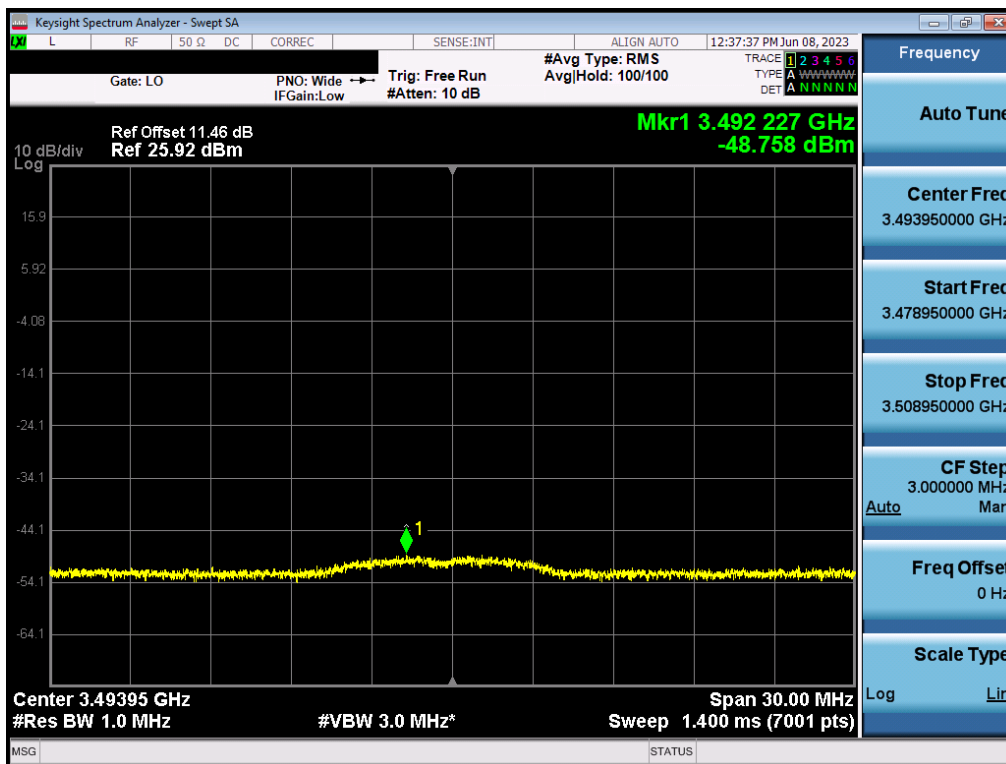
Plot 7.143. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
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## Channel B Conducted Spurious Emissions

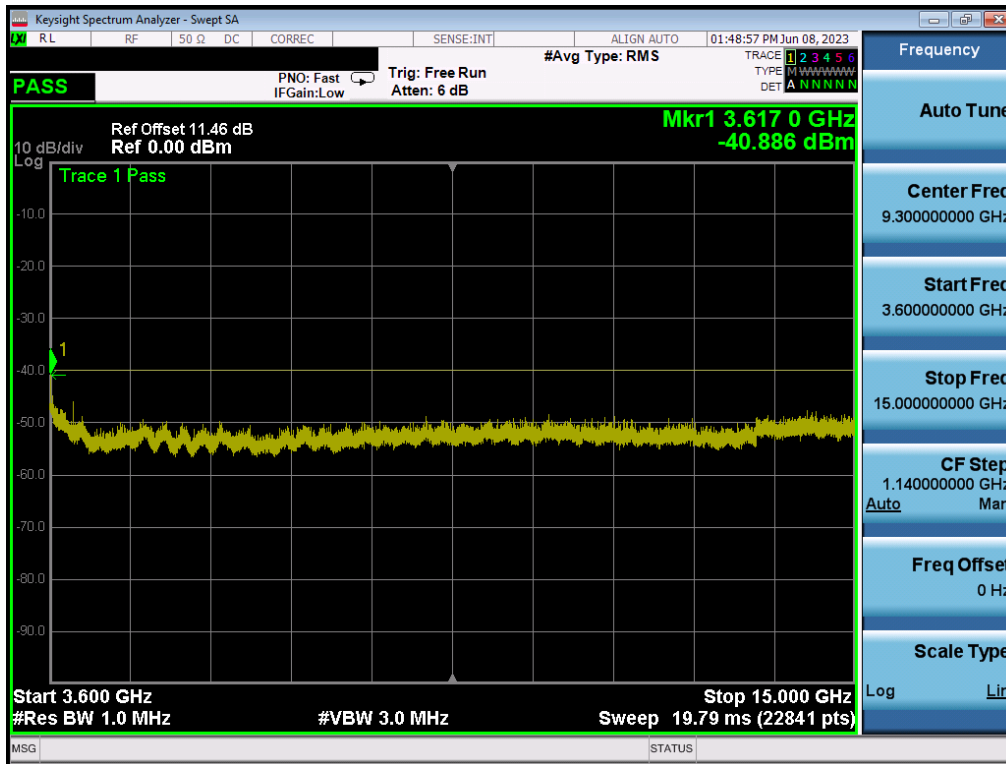


Plot 7.144. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.B)

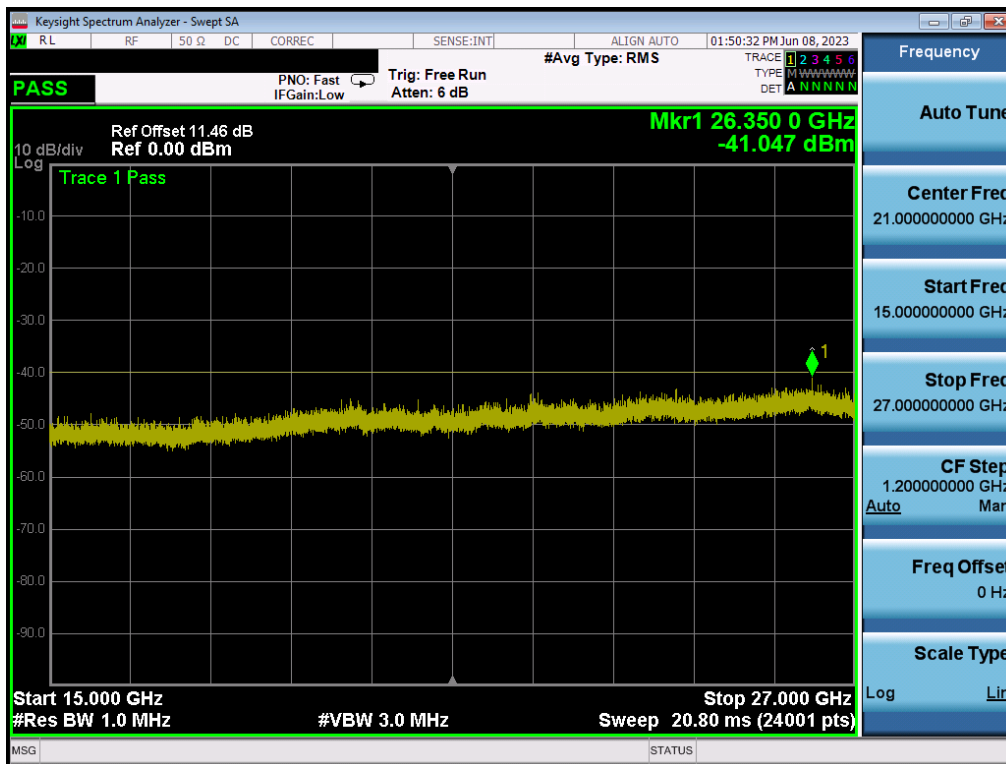


Plot 7.145. Conducted Spurious Plot (10MHz QPSK, Low Channel – 3495 MHz Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 95 of 124                    |

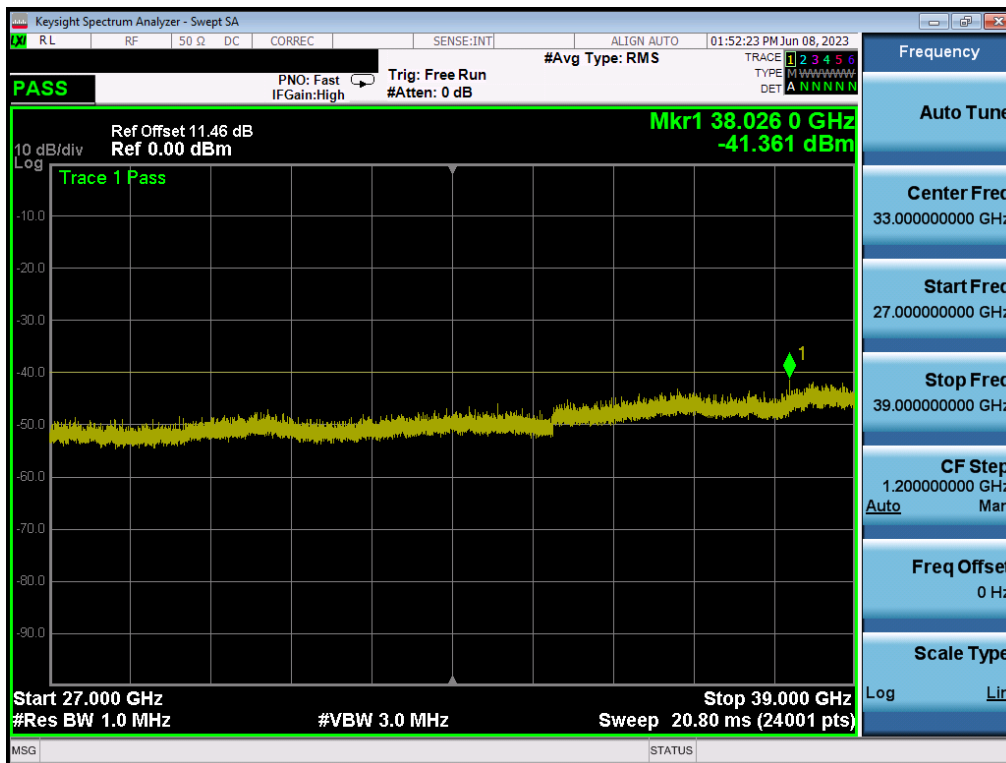


Plot 7.146. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.B)

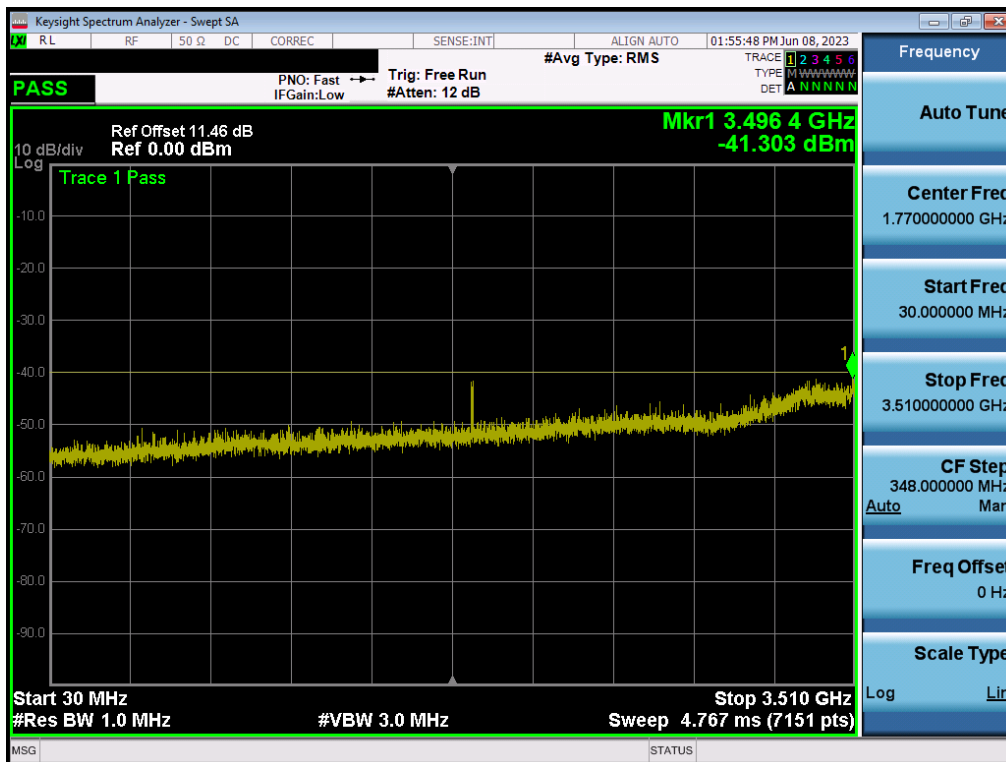


Plot 7.147. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 96 of 124                    |

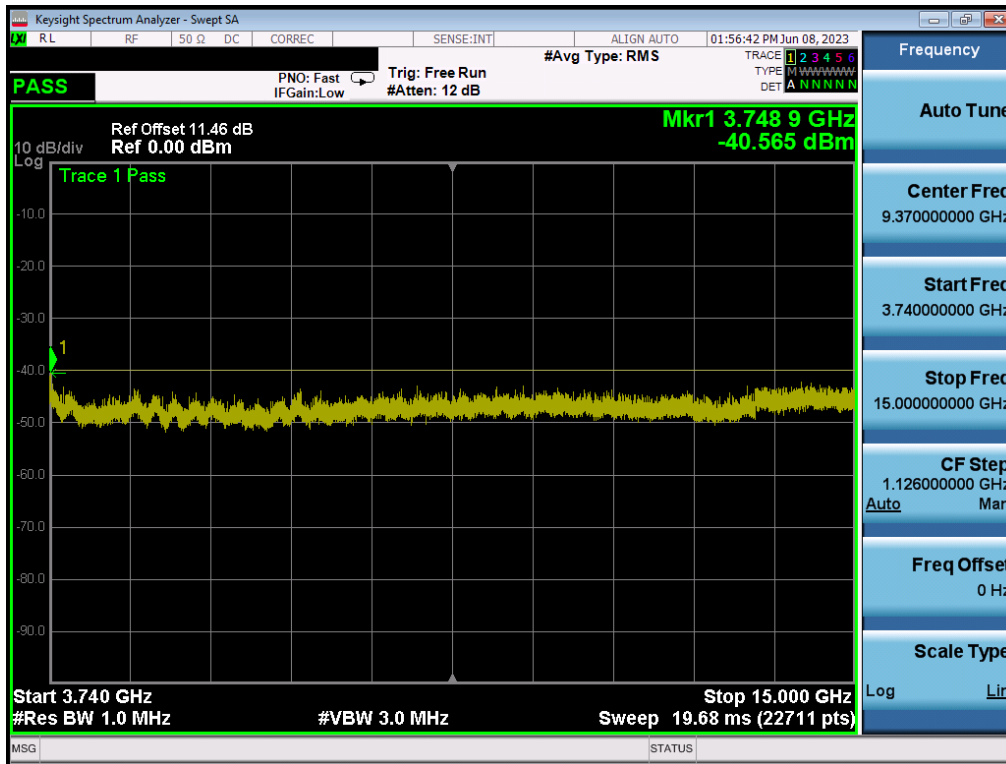


Plot 7.148. Conducted Spurious Plot (10MHz QPSK, Low Channel – Ch.B)

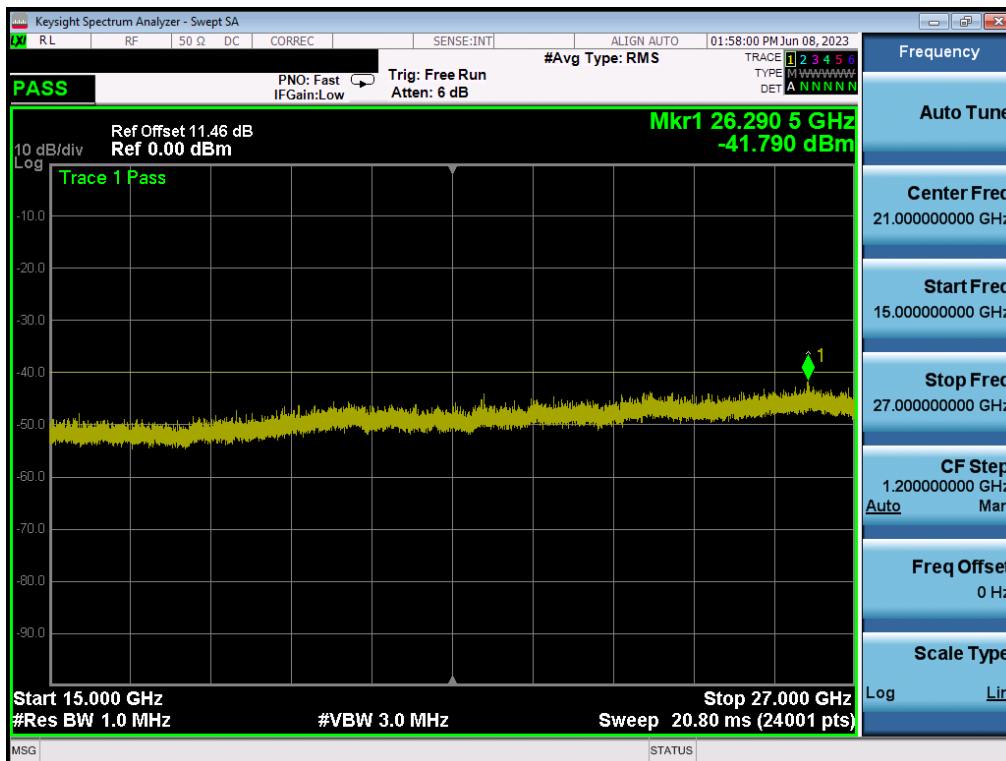


Plot 7.149. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 97 of 124                    |

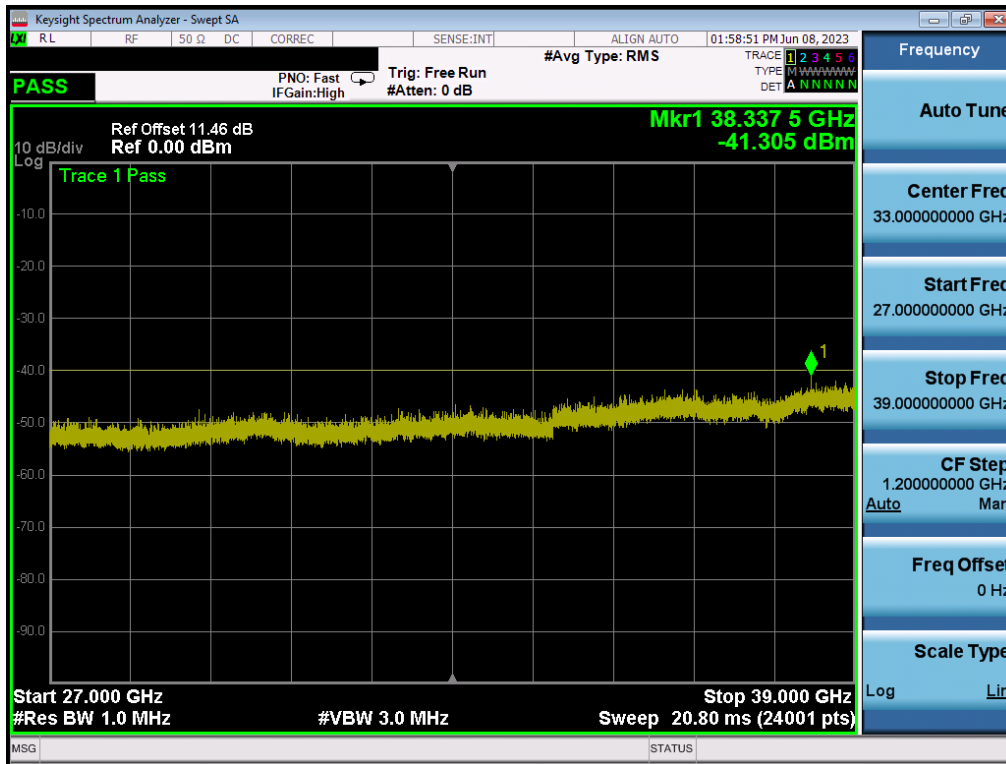


Plot 7.150. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.B)

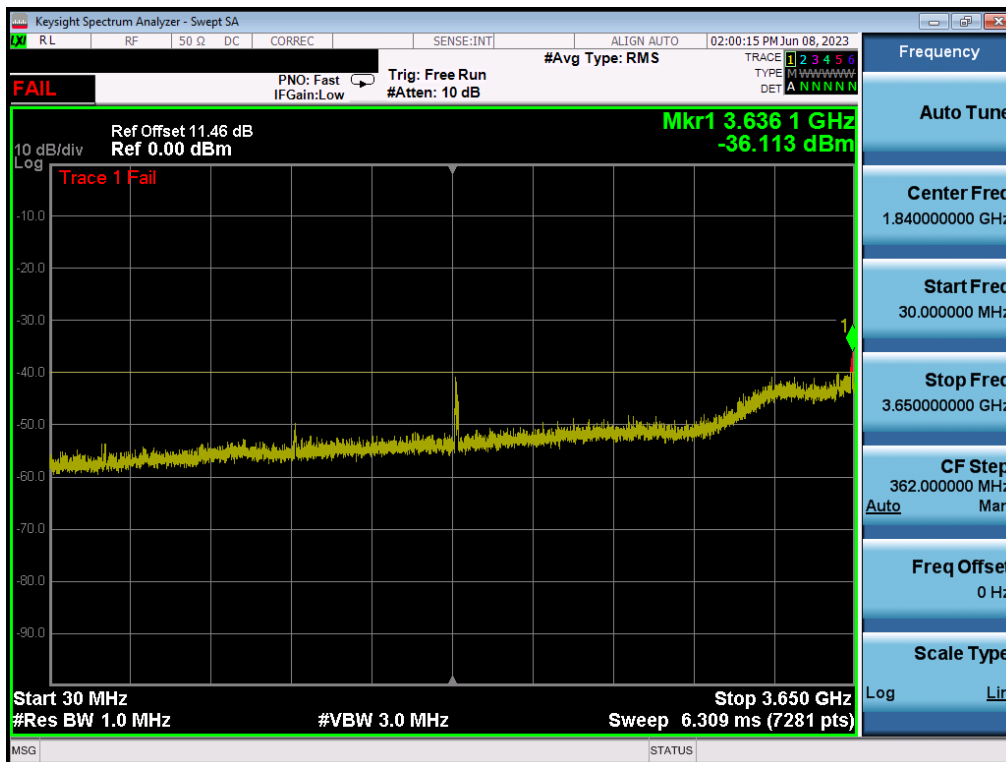


Plot 7.151. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 98 of 124                    |



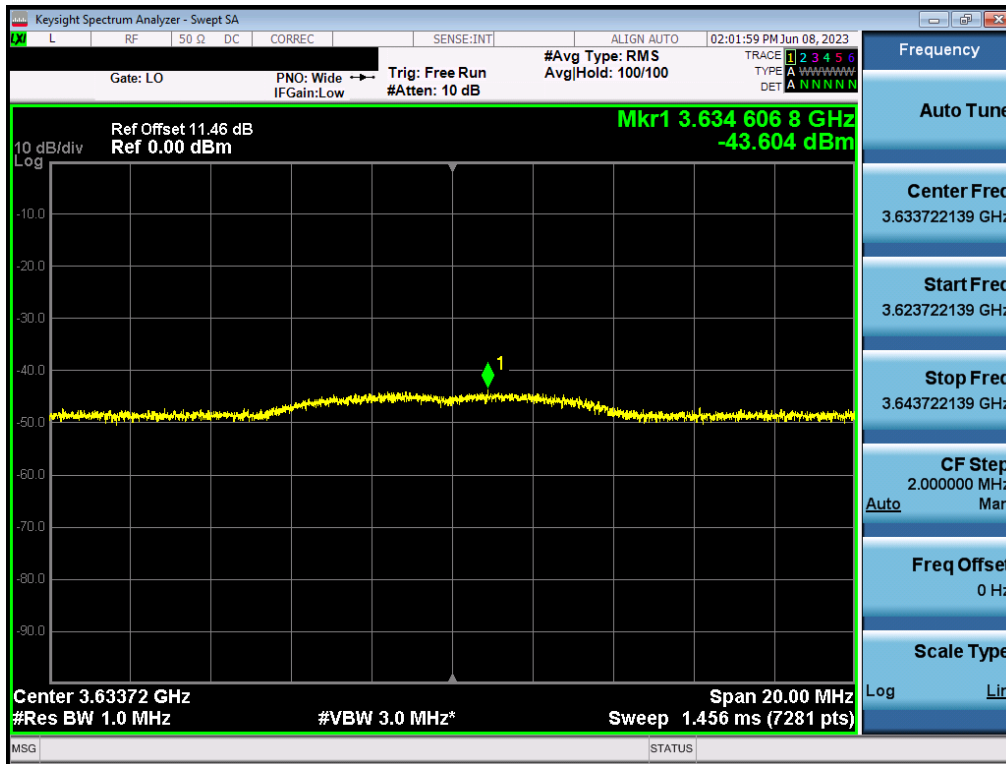
Plot 7.152. Conducted Spurious Plot (10MHz QPSK, Mid Channel – Ch.B)



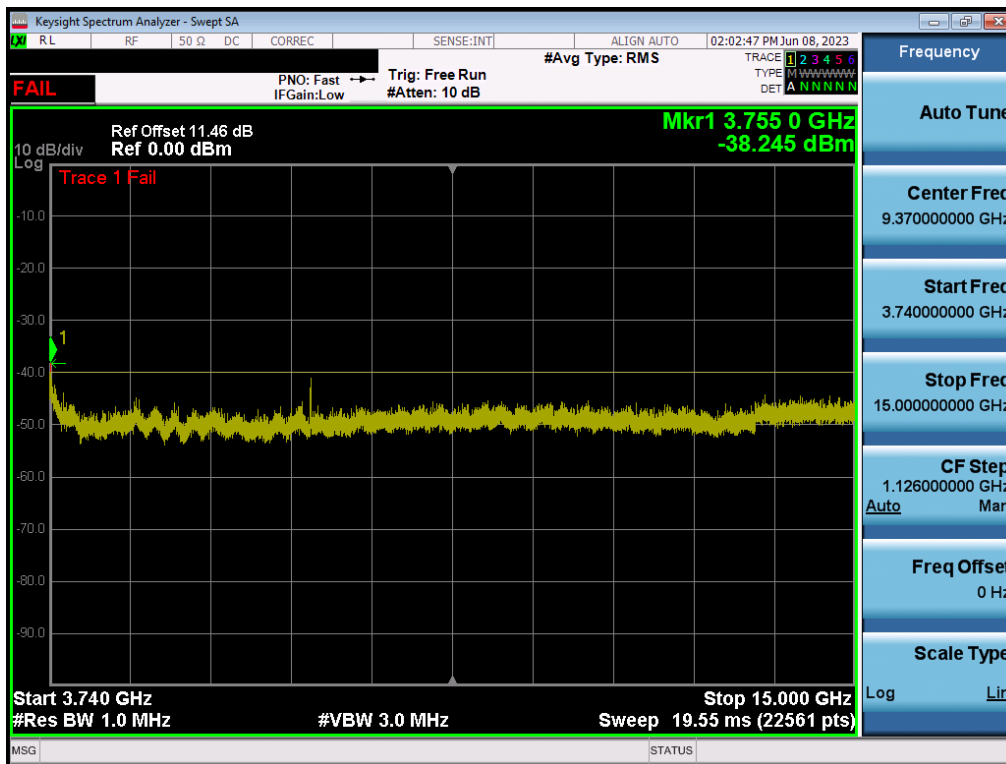
Plot 7.153. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 99 of 124                    |



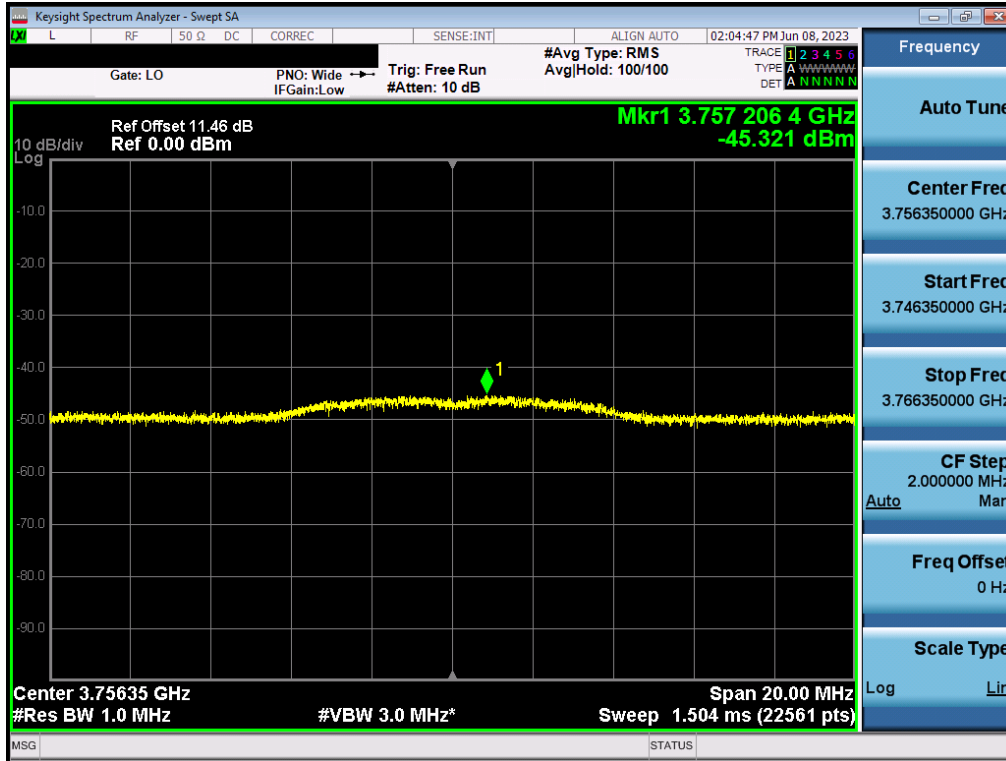


Plot 7.154. Conducted Spurious Plot (10MHz QPSK, High Channel – 3634MHz Ch.B)

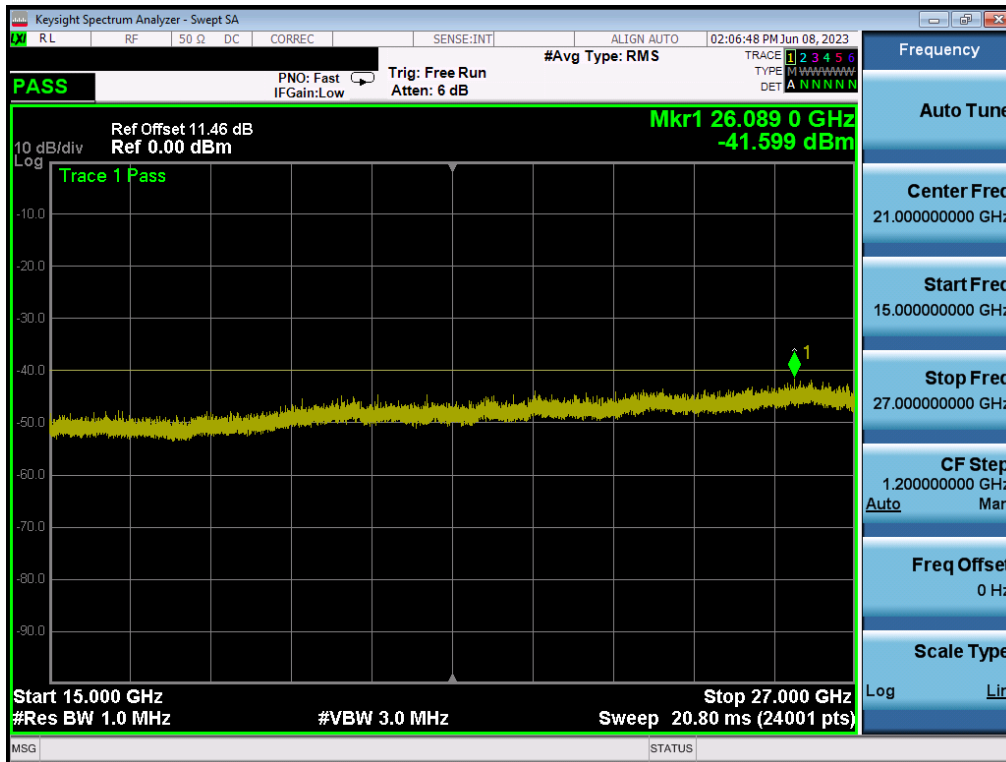


Plot 7.155. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 100 of 124                   |

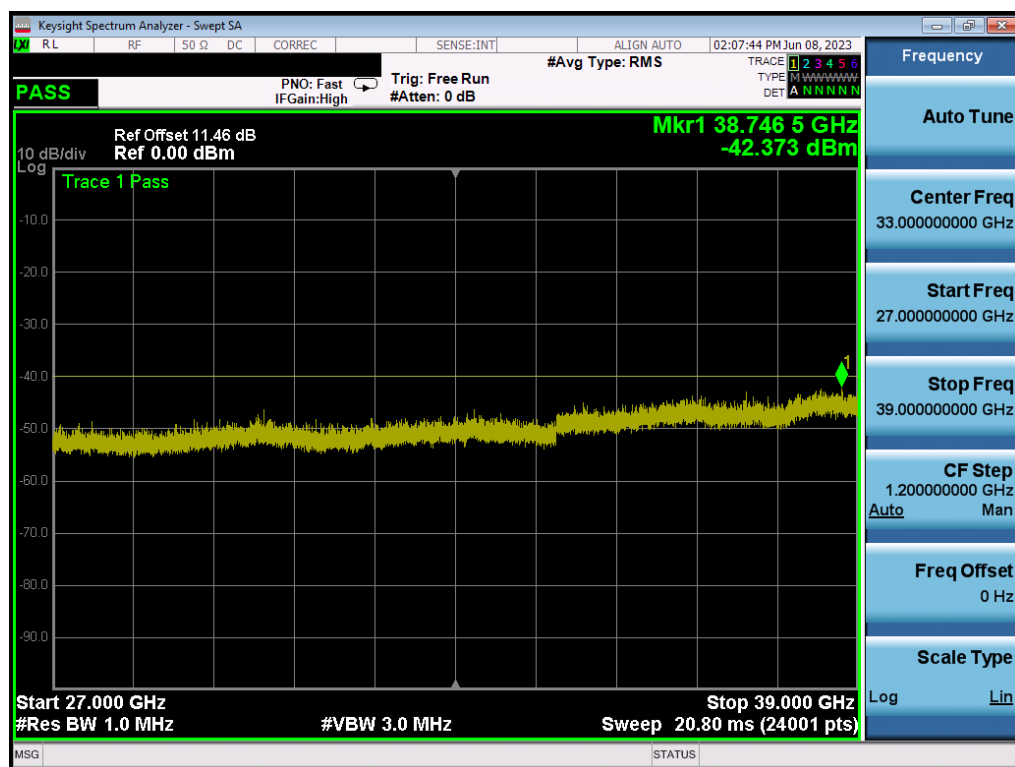


Plot 7.156. Conducted Spurious Plot (10MHz QPSK, High Channel – 3755MHz Ch.B)



Plot 7.157. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 101 of 124                   |



Plot 7.158. Conducted Spurious Plot (10MHz QPSK, High Channel – Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 102 of 124                   |

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## 7.7 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.

***For an End User Device, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed  $-13$  dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed  $-25$  dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed  $-40$  dBm/MHz.***

### Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq 1\%$  of the emission bandwidth
4. VBW  $\geq 3 \times$  RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times$  Span/RBW
7. Trace mode = trace average
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 7-6. Test Instrument & Measurement Setup**

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 103 of 124                   |

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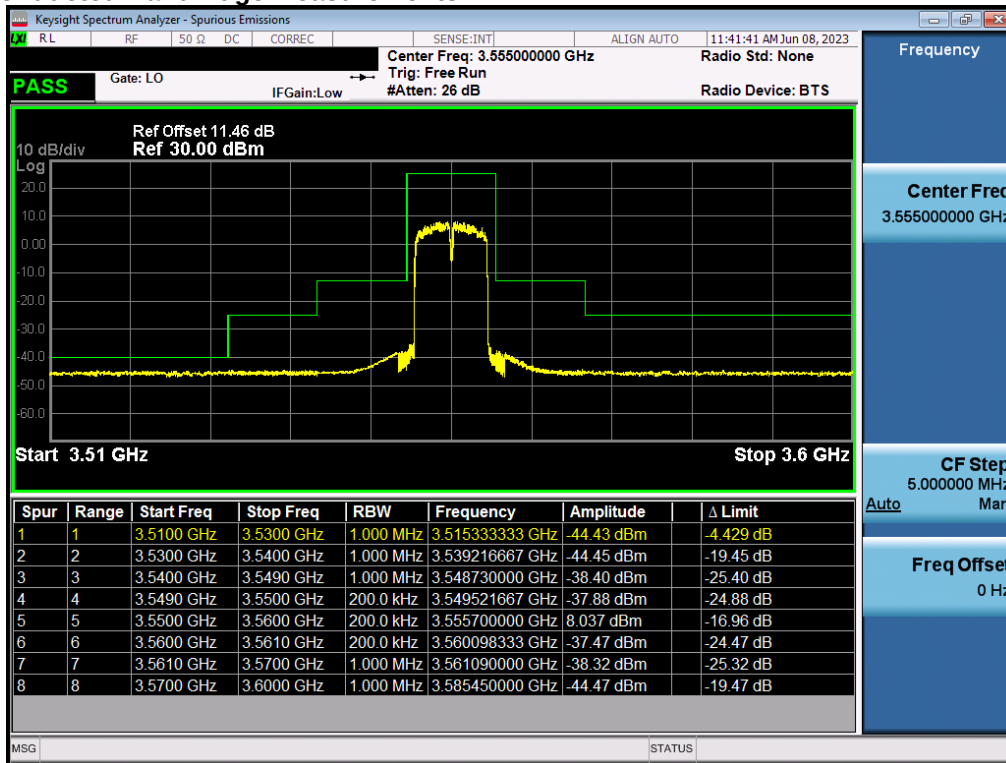
## Test Notes

1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental 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 emissions are attenuated at least 26 dB below the transmitter power.
2. The Plots in this section have a 11.46dB ( $10 \cdot \log(\text{total ports}[14])$ ) correction applied to the individual plots to address the MIMO requirements in ANSI C63.26

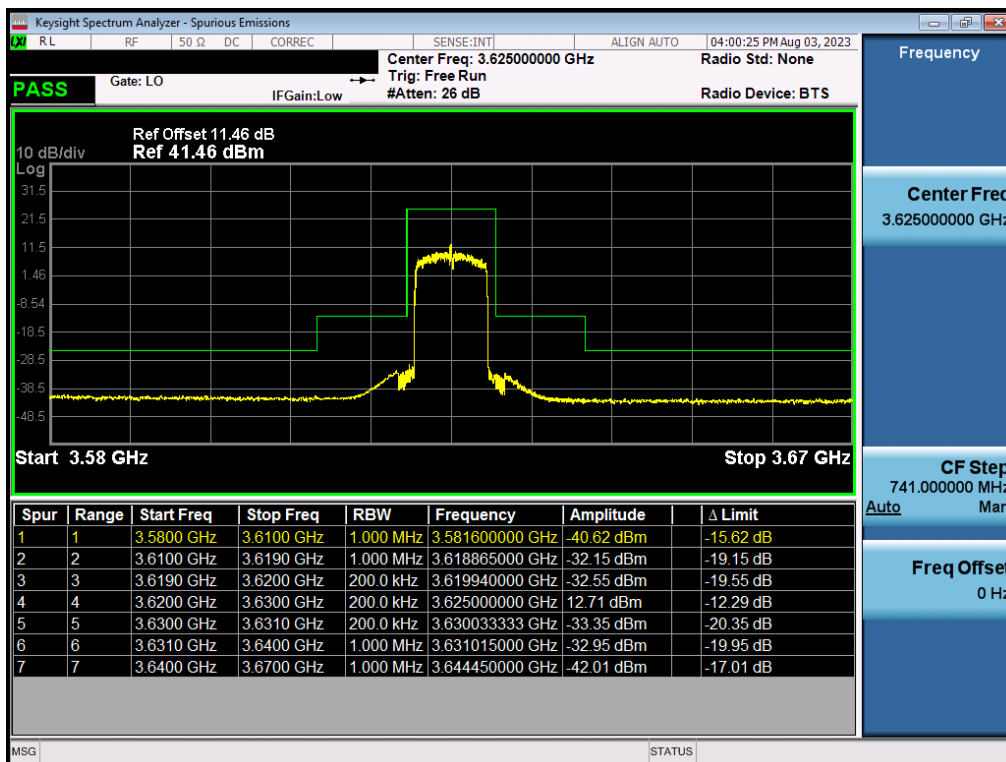
|                                                  |                                                                        |                                       |                                          |
|--------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID:</b> 2AS22-LUMACH2                     | <b>PART 96 MEASUREMENT REPORT</b><br><b>Class II Permissive Change</b> |                                       | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2308230095-01.2AS22 | <b>Test Dates:</b><br>05/08/2023 – 08/24/2023                          | <b>EUT Type:</b><br>CBRS Radio Module | Page 104 of 124                          |

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## Channel A Conducted Band Edge Measurements

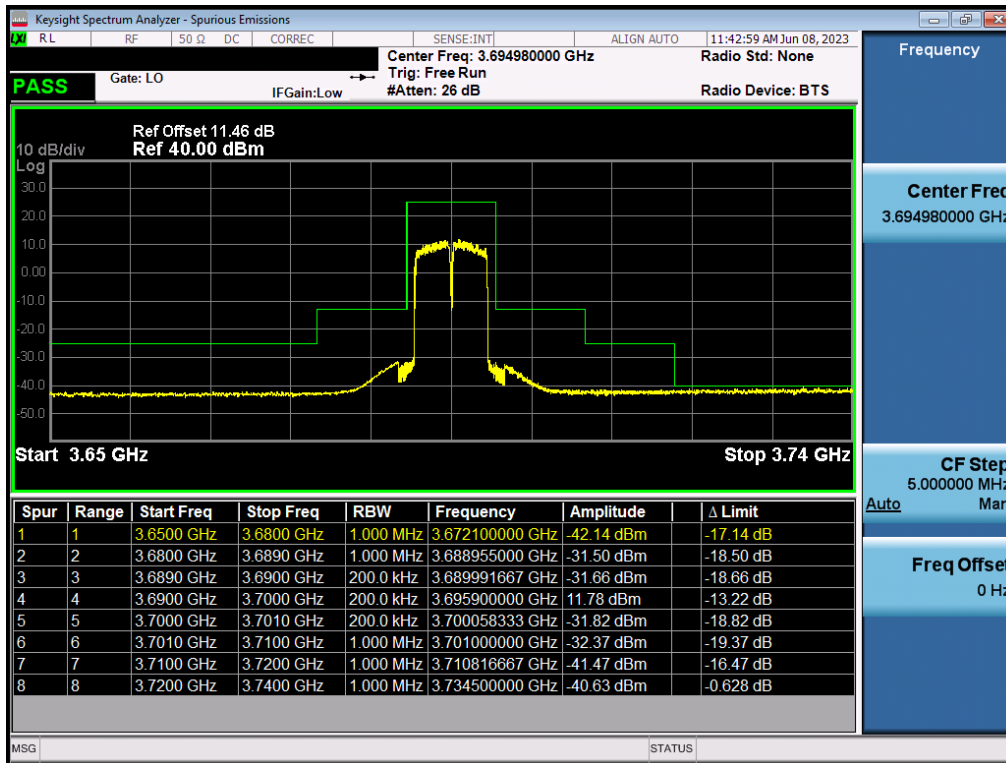


Plot 7.159. Conducted Band Edge Plot (10MHz, QPSK, Low Channel, Ch.A)

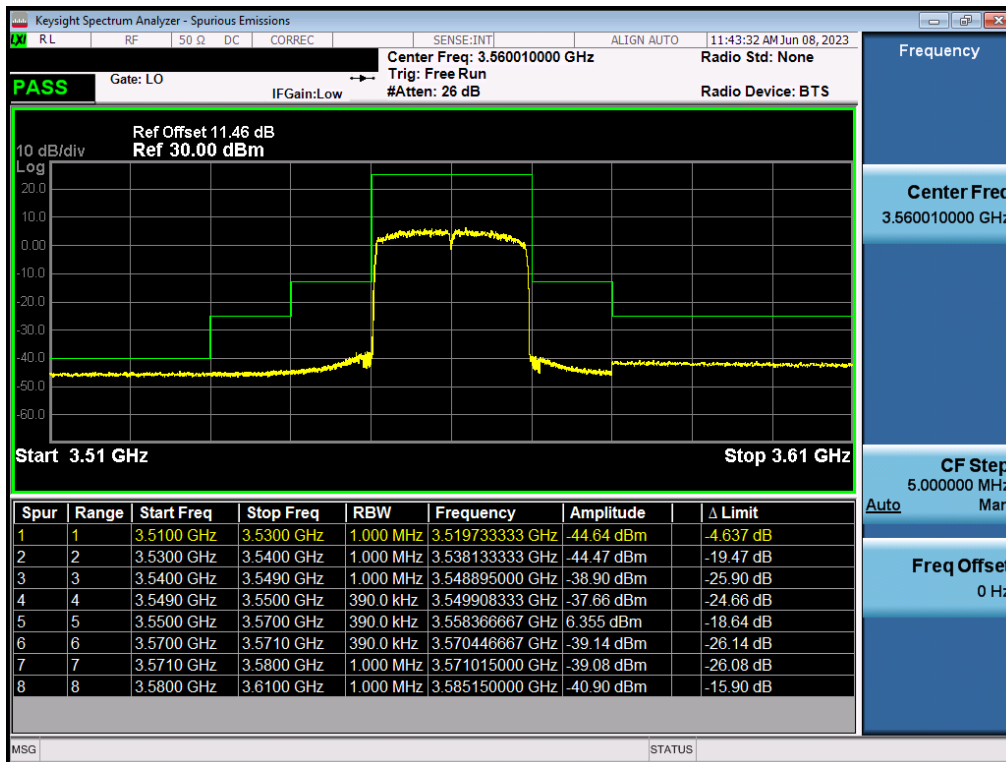


Plot 7.160. Conducted Band Edge Plot (10MHz, QPSK, Mid Channel, Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 105 of 124                   |



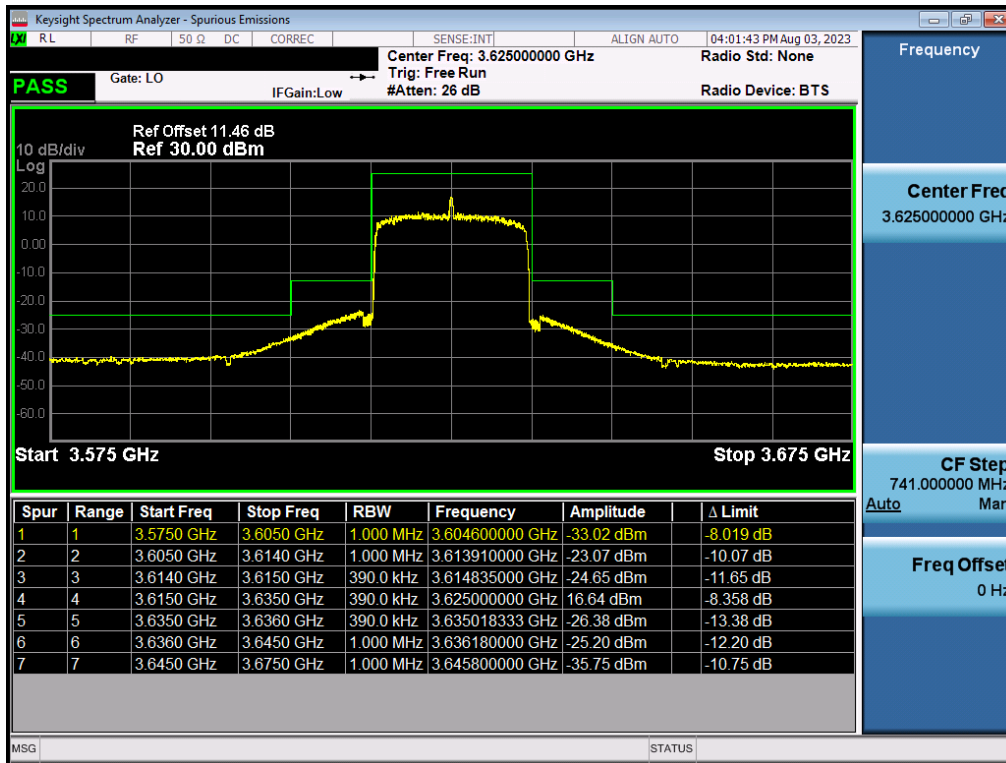
Plot 7.161. Conducted Band Edge Plot (10MHz, QPSK, High Channel, Ch.A)



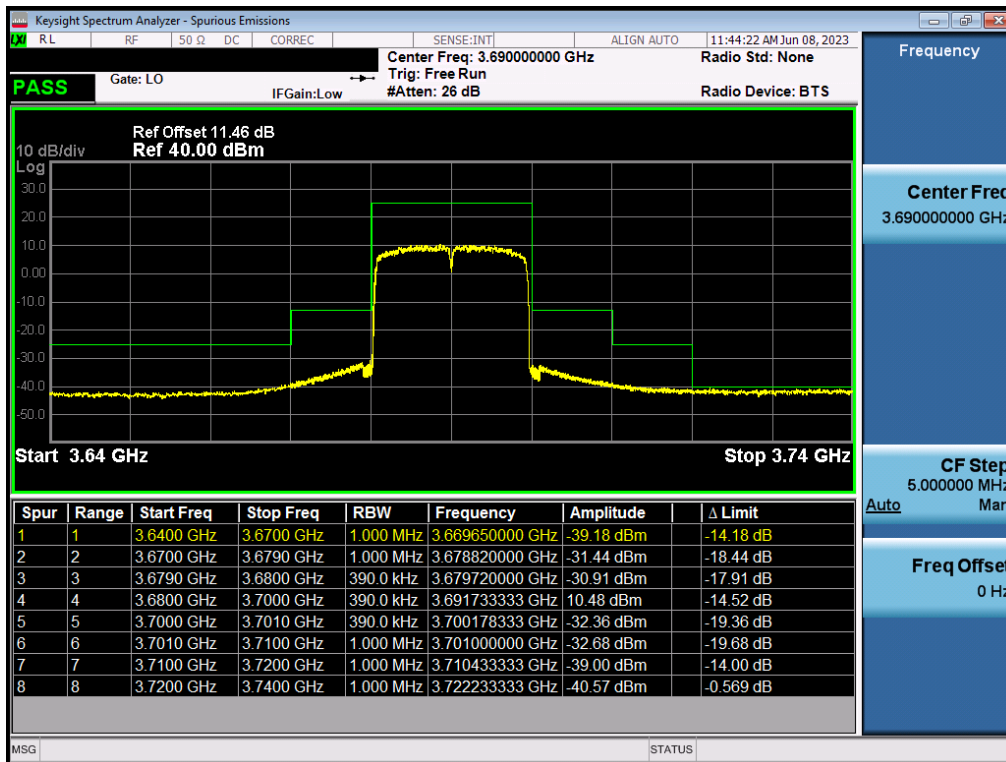
Plot 7.162. Conducted Band Edge Plot (20MHz, QPSK, Low Channel, Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 106 of 124                   |



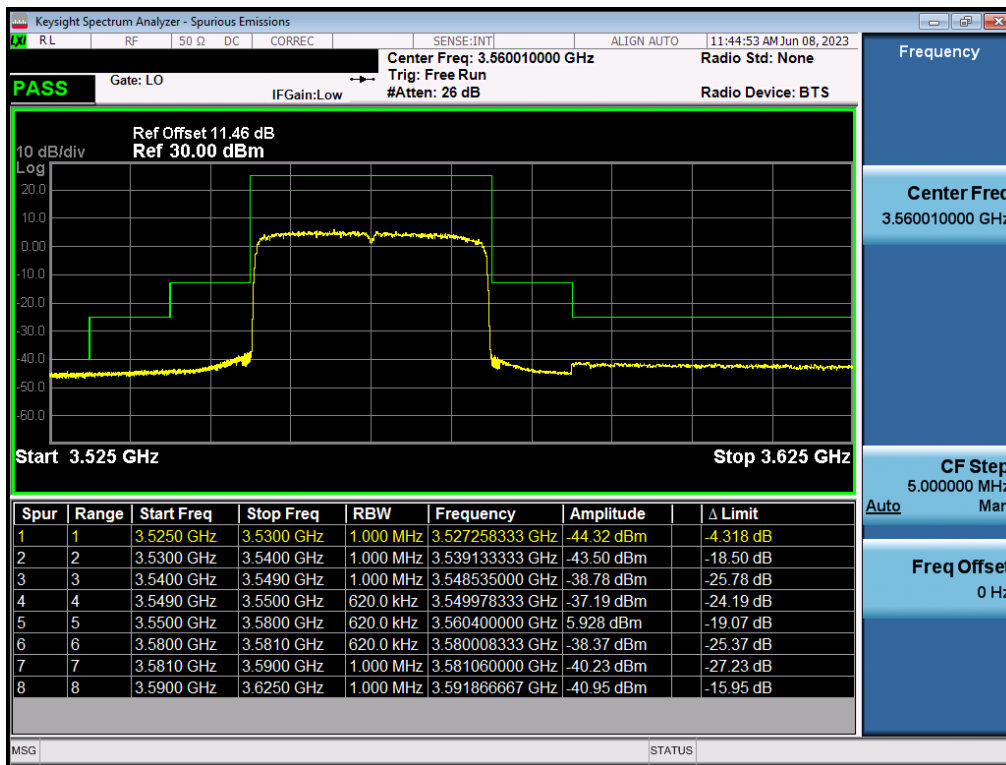


Plot 7.163. Conducted Band Edge Plot (20MHz, QPSK, Mid Channel, Ch.A)

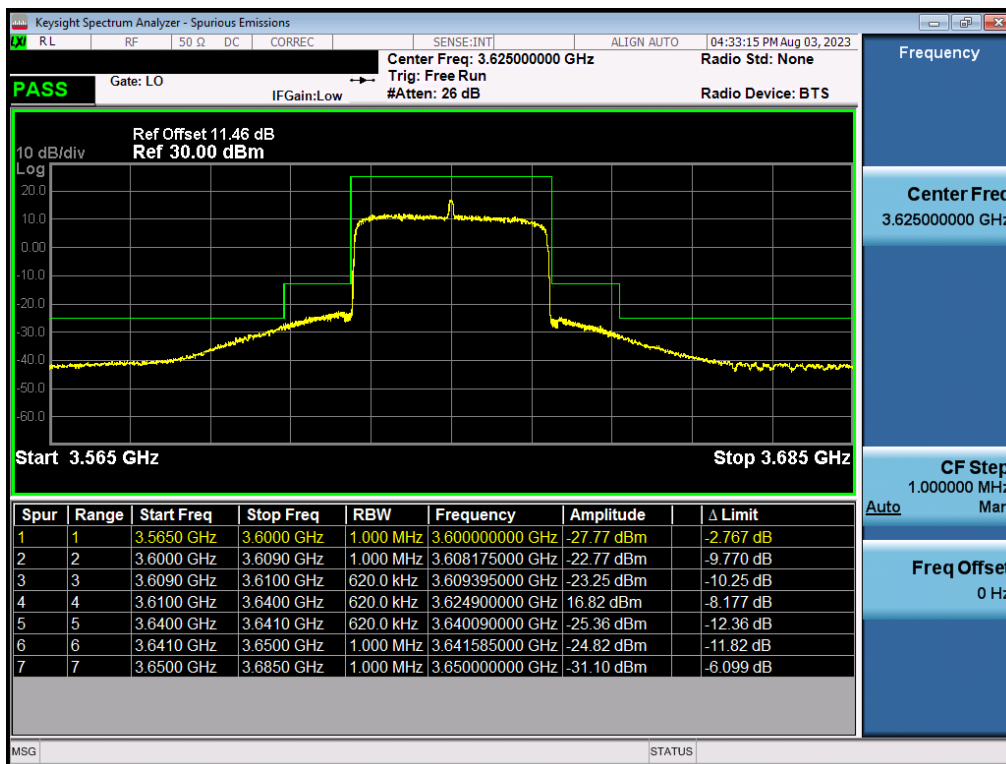


Plot 7.164. Conducted Band Edge Plot (20MHz, QPSK, High Channel, Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 107 of 124                   |

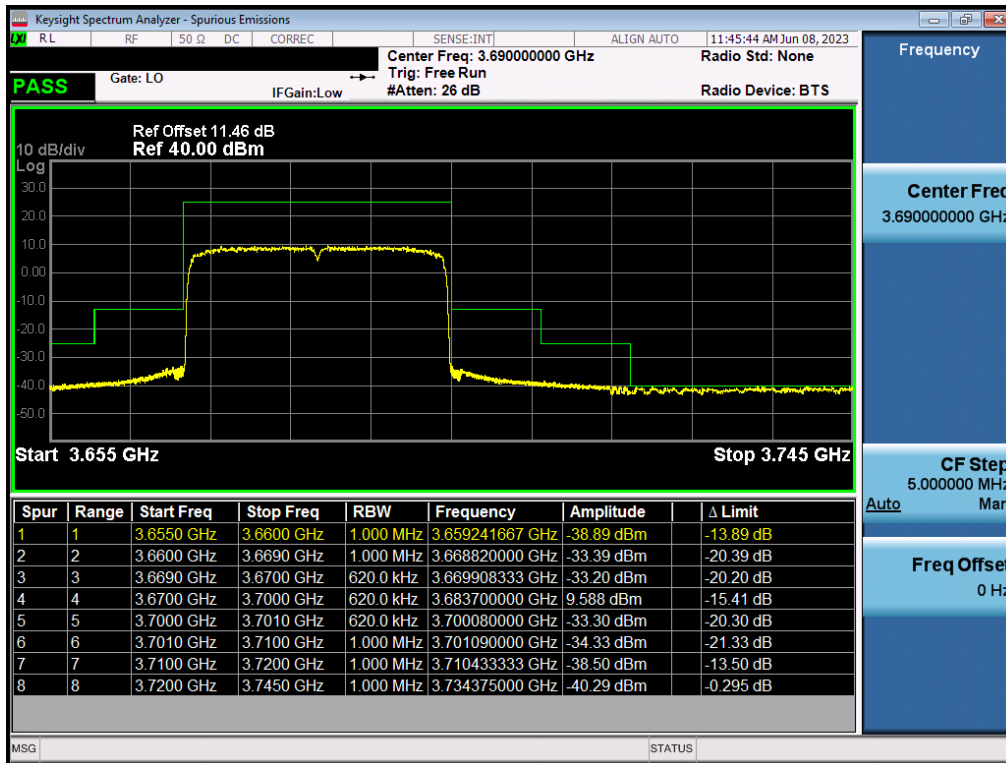


Plot 7.165. Conducted Band Edge Plot (30MHz, QPSK, Low Channel, Ch.A)

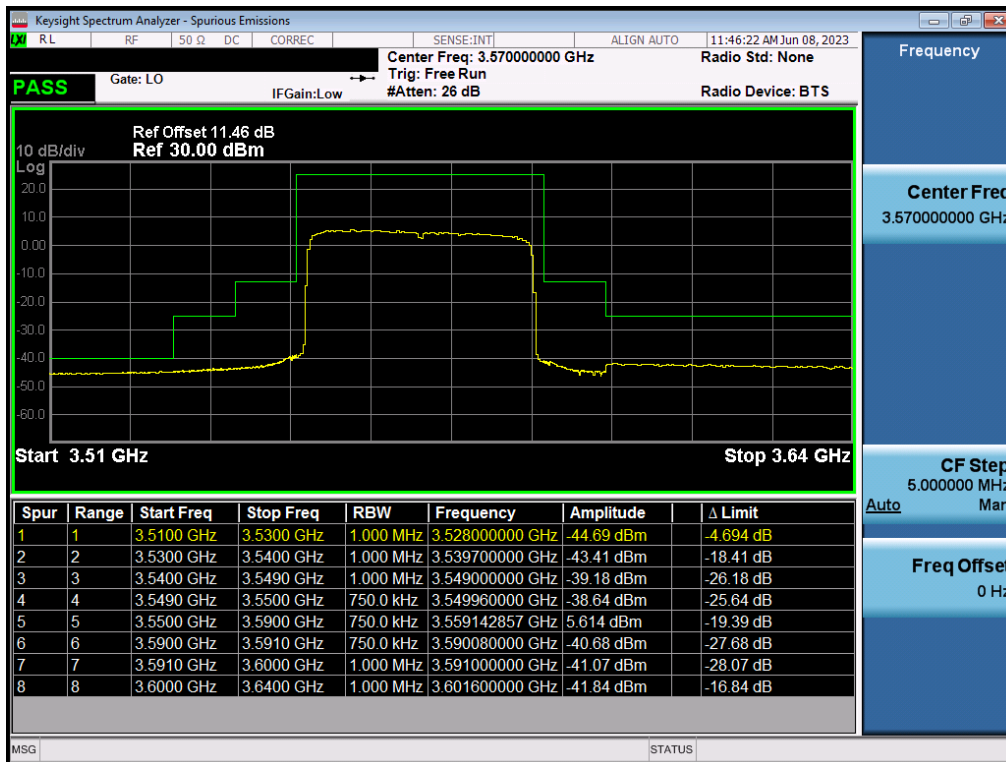


Plot 7.166. Conducted Band Edge Plot (30MHz, QPSK, Mid Channel, Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 108 of 124                   |

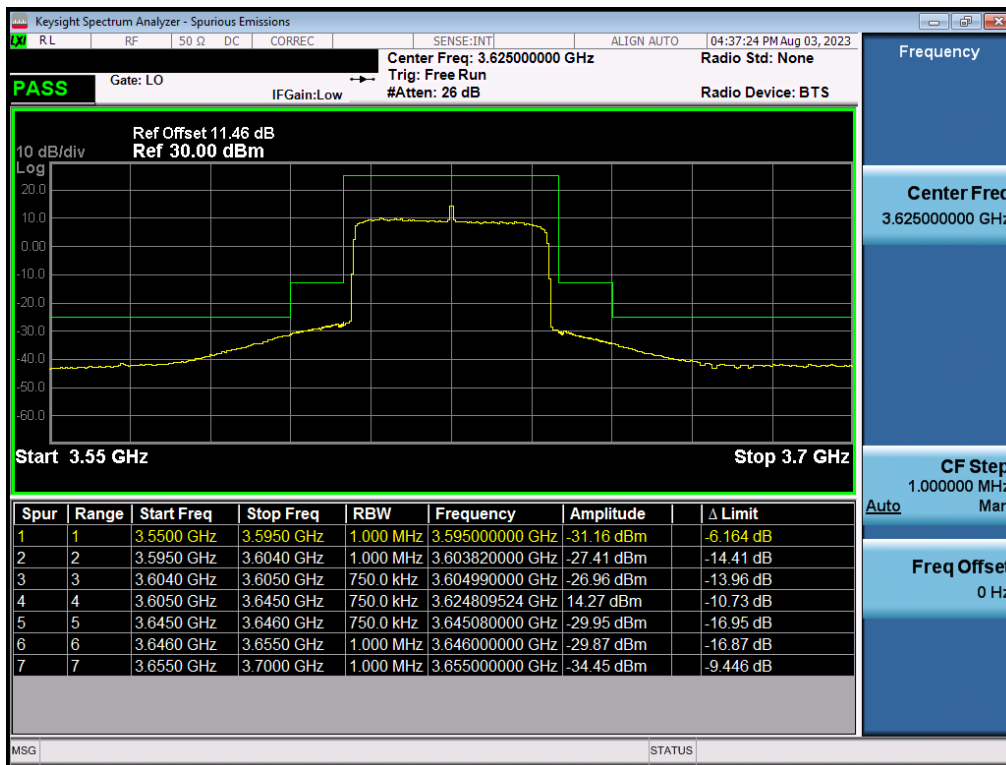


Plot 7.167. Conducted Band Edge Plot (30MHz, QPSK, High Channel, Ch.A)

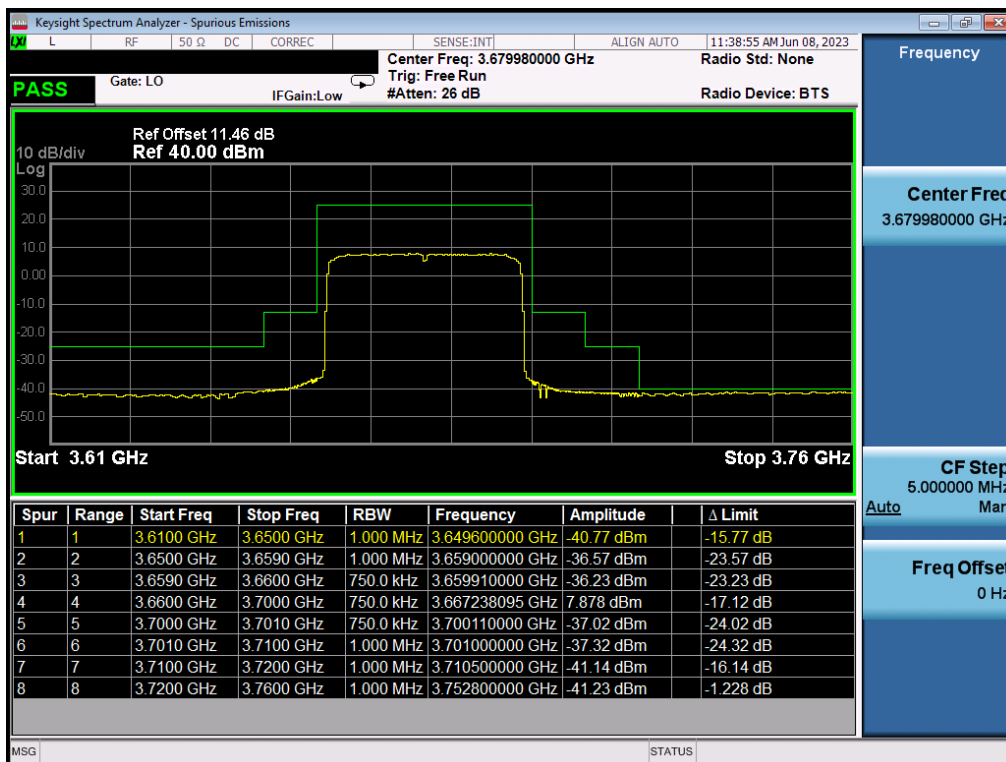


Plot 7.168. Conducted Band Edge Plot (40MHz, QPSK, Low Channel, Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 109 of 124                   |



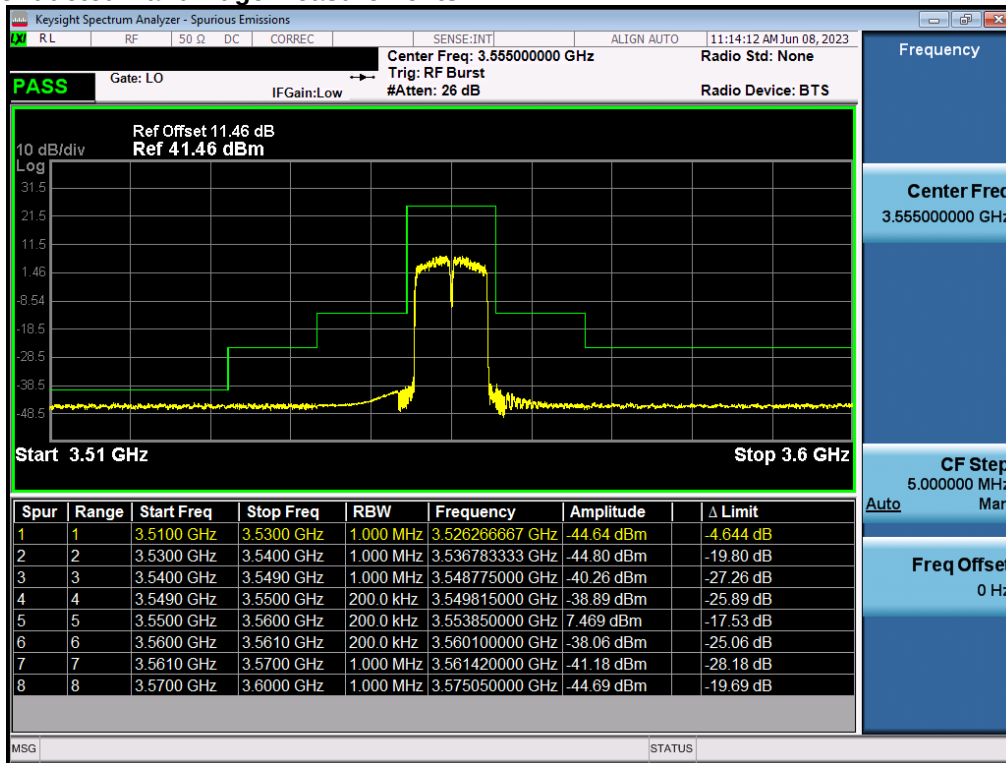
Plot 7.169. Conducted Band Edge Plot (40MHz, QPSK, Mid Channel, Ch.A)



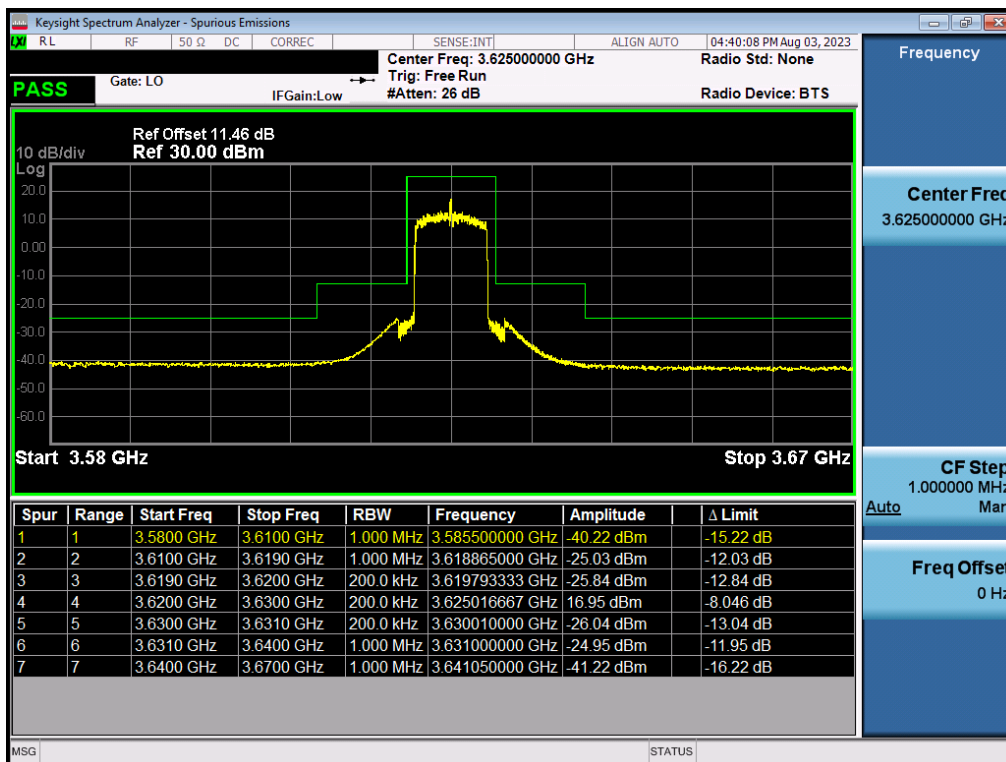
Plot 7.170. Conducted Band Edge Plot (40MHz, QPSK, High Channel, Ch.A)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 110 of 124                   |

## Channel B Conducted Band Edge Measurements



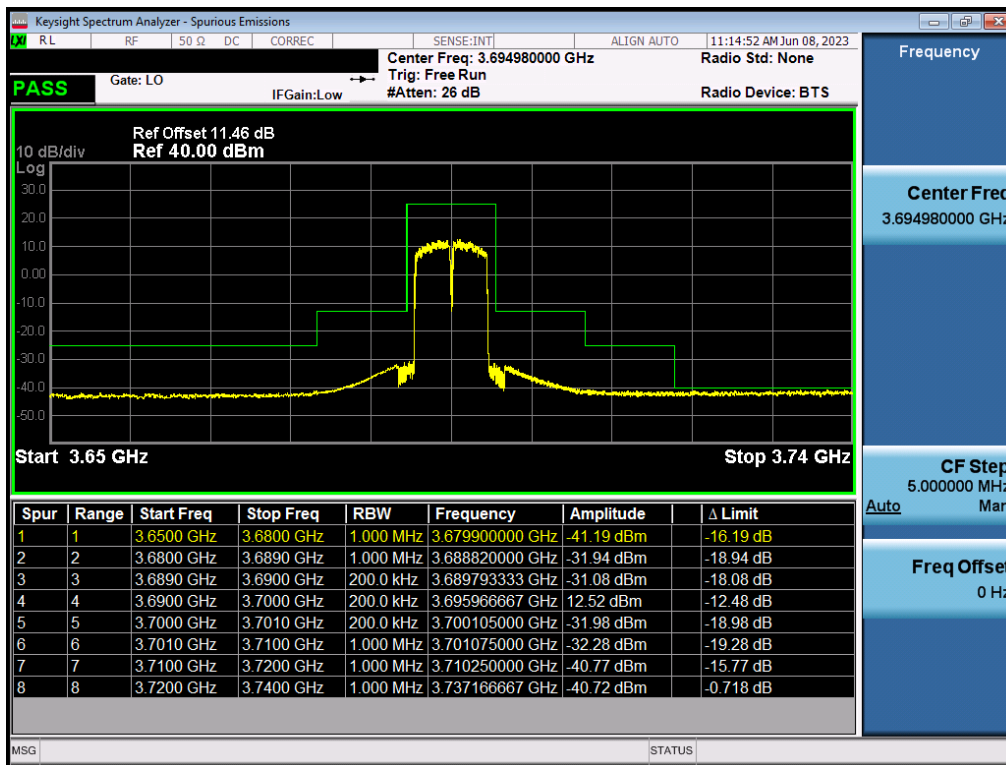
Plot 7.171. Conducted Band Edge Plot (10MHz, QPSK, Low Channel, Ch.B)



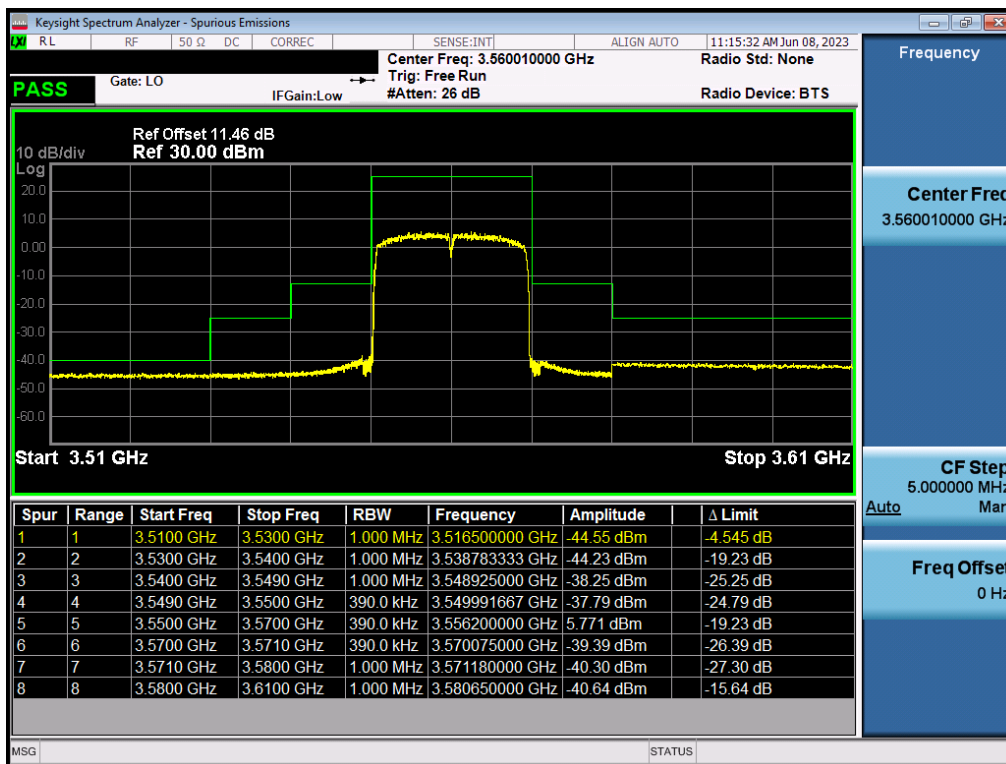
Plot 7.172. Conducted Band Edge Plot (10MHz, QPSK, Mid Channel, Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 111 of 124                   |



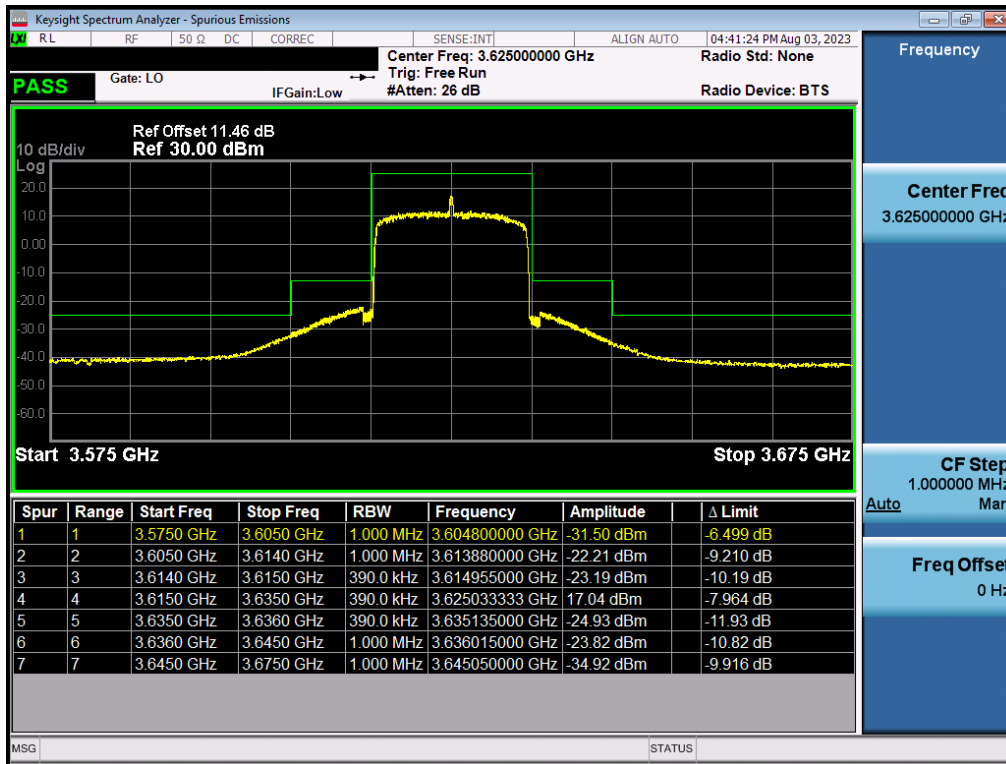


Plot 7.173. Conducted Band Edge Plot (10MHz, QPSK, High Channel, Ch.B)

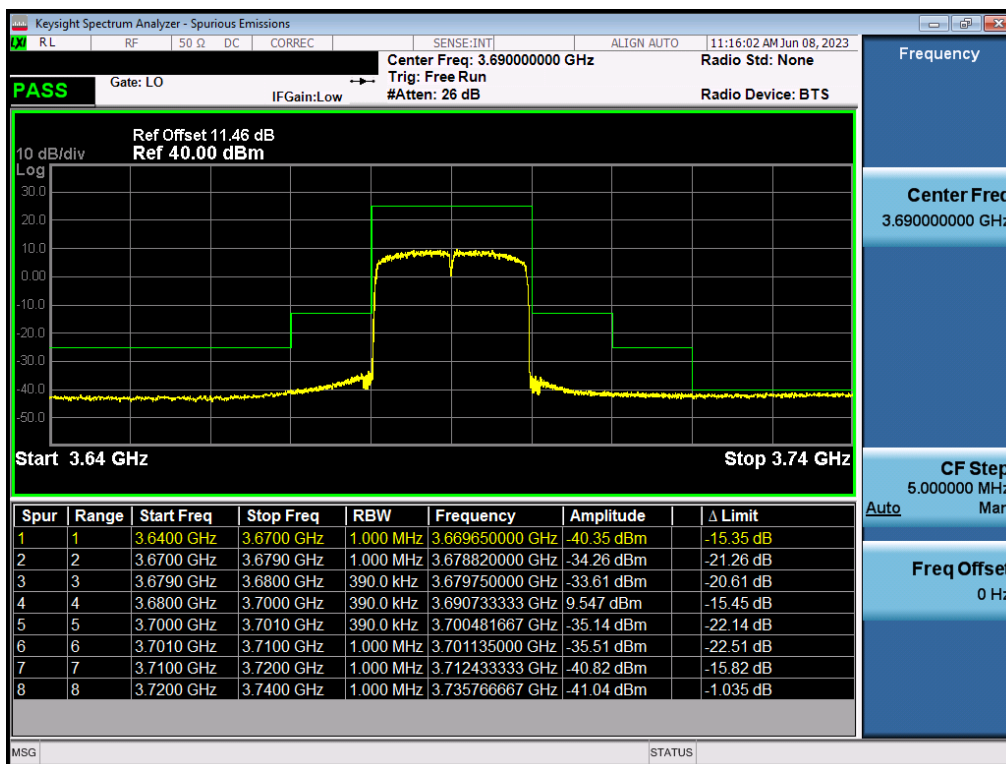


Plot 7.174. Conducted Band Edge Plot (20MHz, QPSK, Low Channel, Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 112 of 124                   |



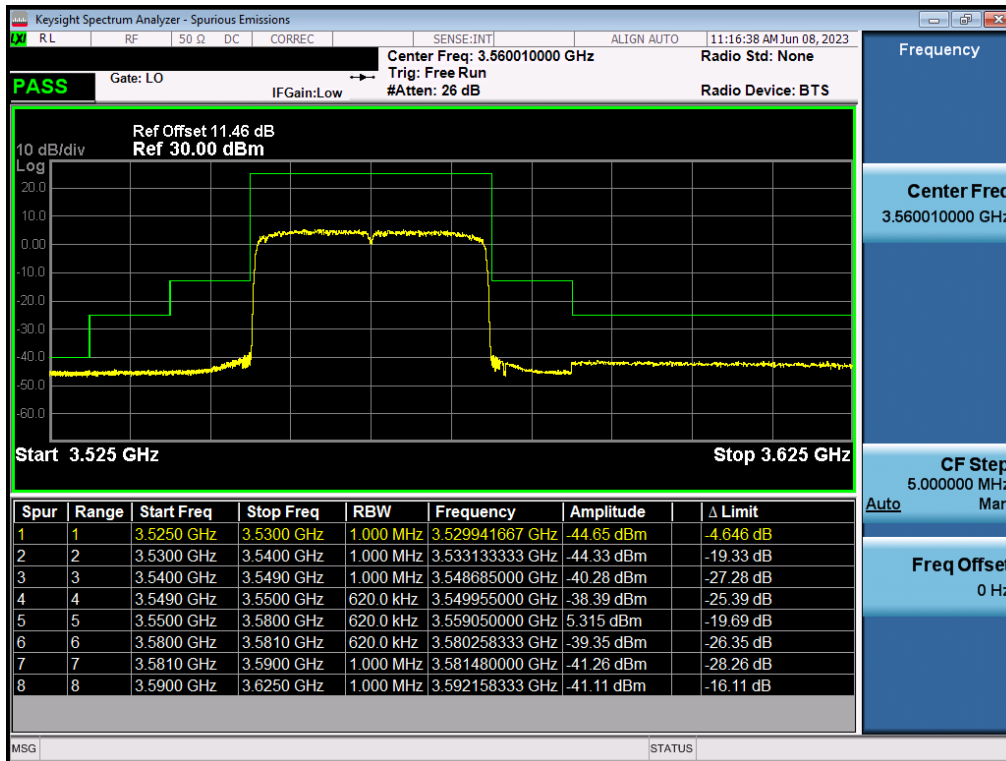
Plot 7.175. Conducted Band Edge Plot (20MHz, QPSK, Mid Channel, Ch.B)



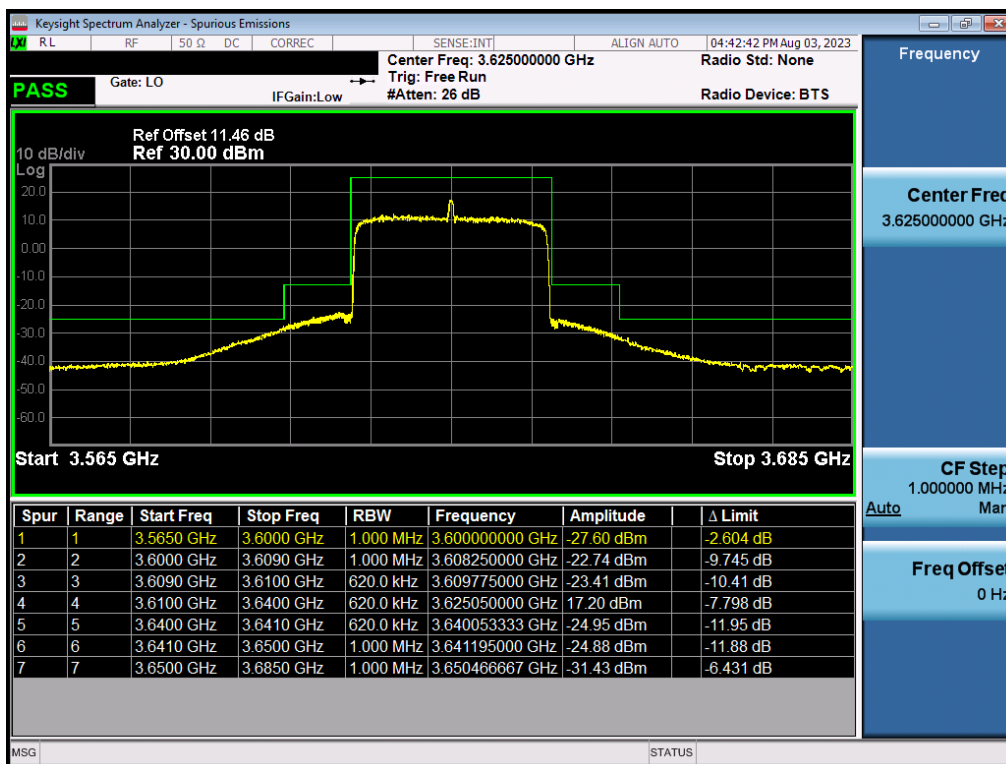
Plot 7.176. Conducted Band Edge Plot (20MHz, QPSK, High Channel, Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 113 of 124                   |



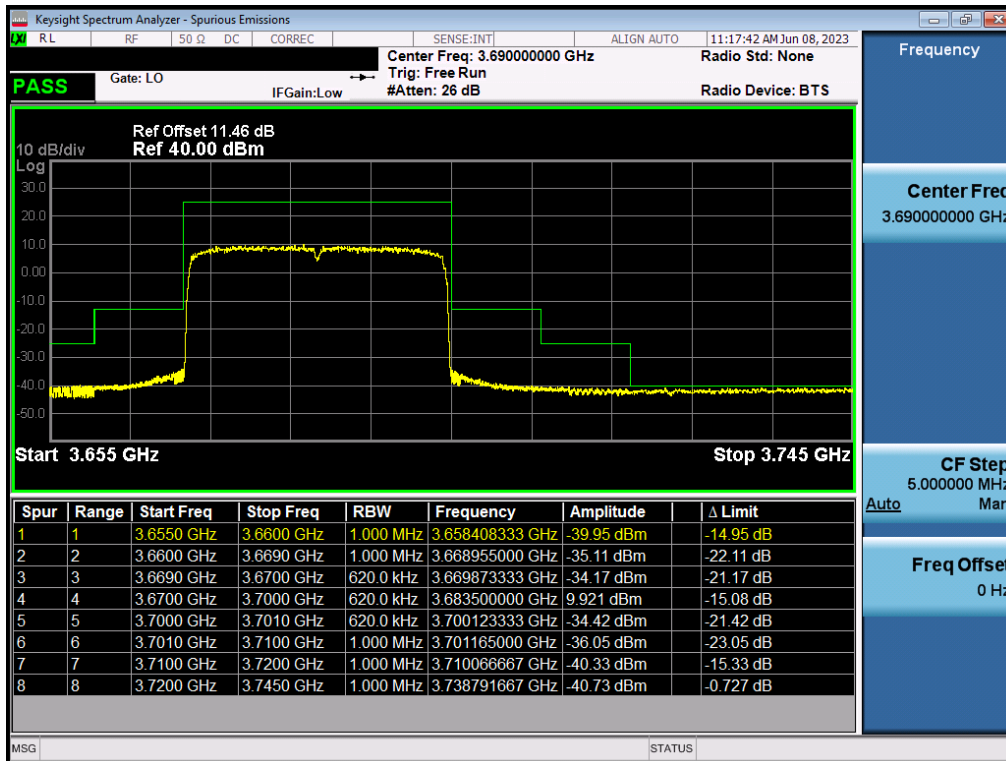


Plot 7.177. Conducted Band Edge Plot (30MHz, QPSK, Low Channel, Ch.B)

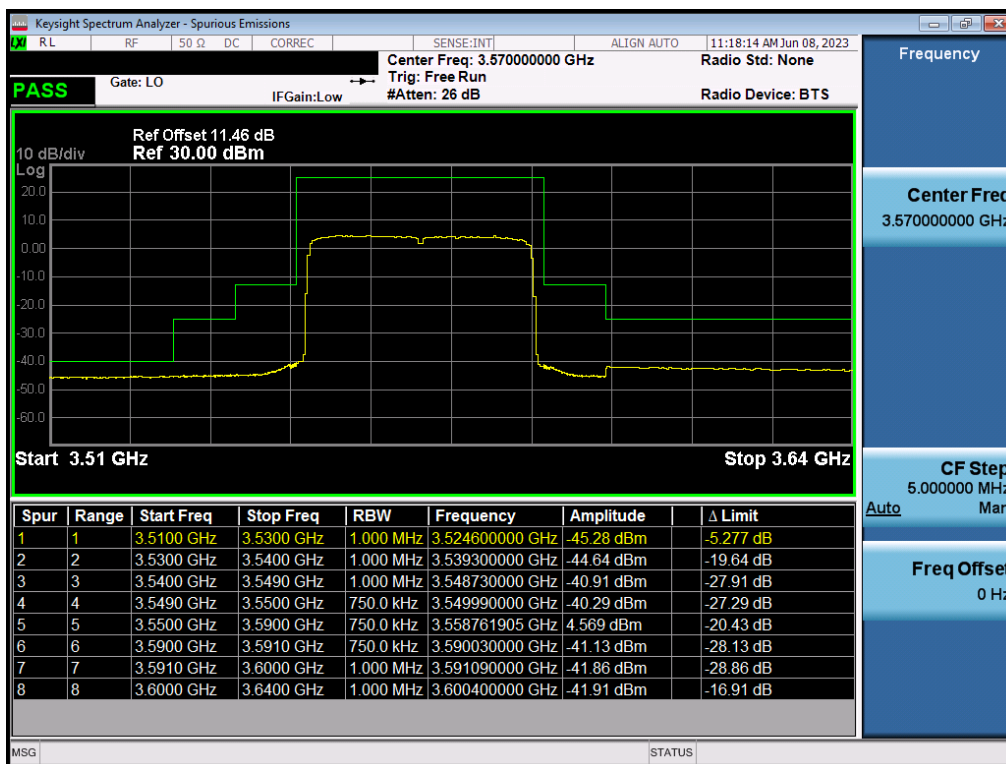


Plot 7.178. Conducted Band Edge Plot (30MHz, QPSK, Mid Channel, Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 114 of 124                   |

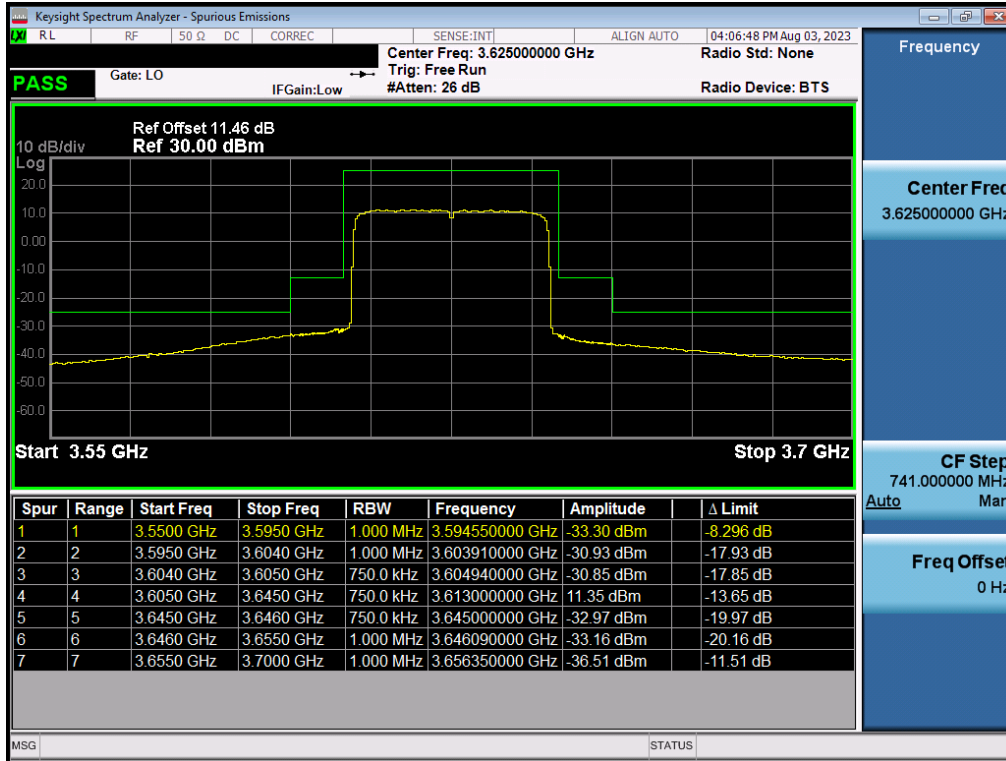


Plot 7.179. Conducted Band Edge Plot (30MHz, QPSK, High Channel, Ch.B)

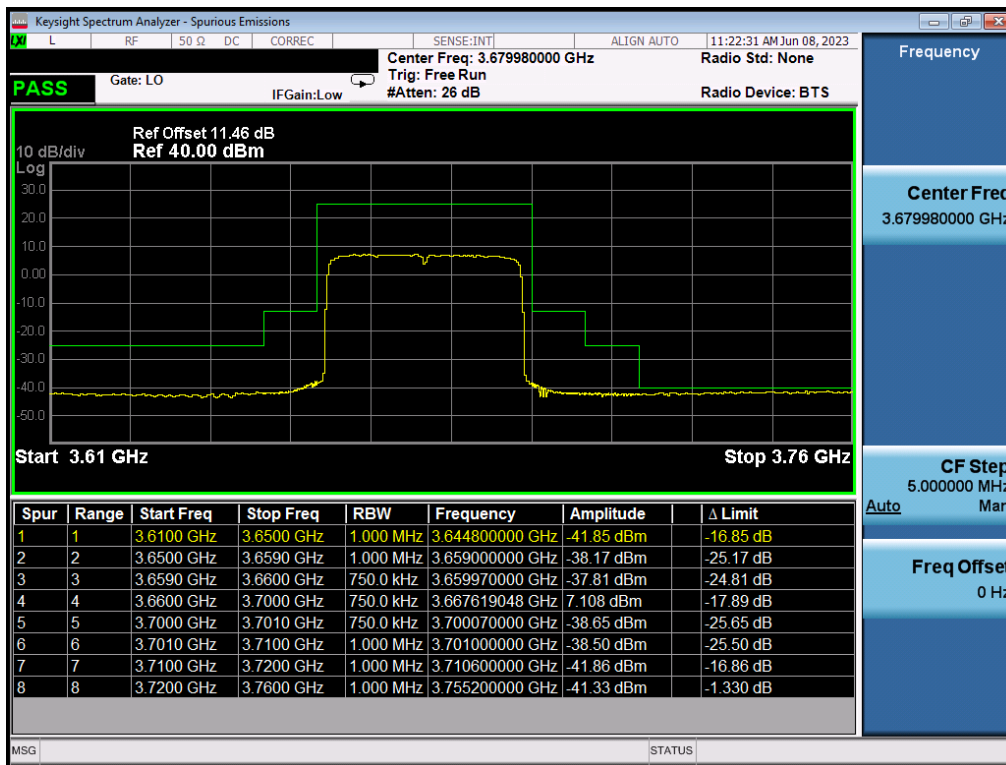


Plot 7.180. Conducted Band Edge Plot (40MHz, QPSK, Low Channel, Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 115 of 124                   |



Plot 7.181. Conducted Band Edge Plot (40MHz, QPSK, Mid Channel, Ch.B)



Plot 7.182. Conducted Band Edge Plot (40MHz, QPSK, High Channel, Ch.B)

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 116 of 124                   |

## 7.8 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into a 50ohm load. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

### Test Settings

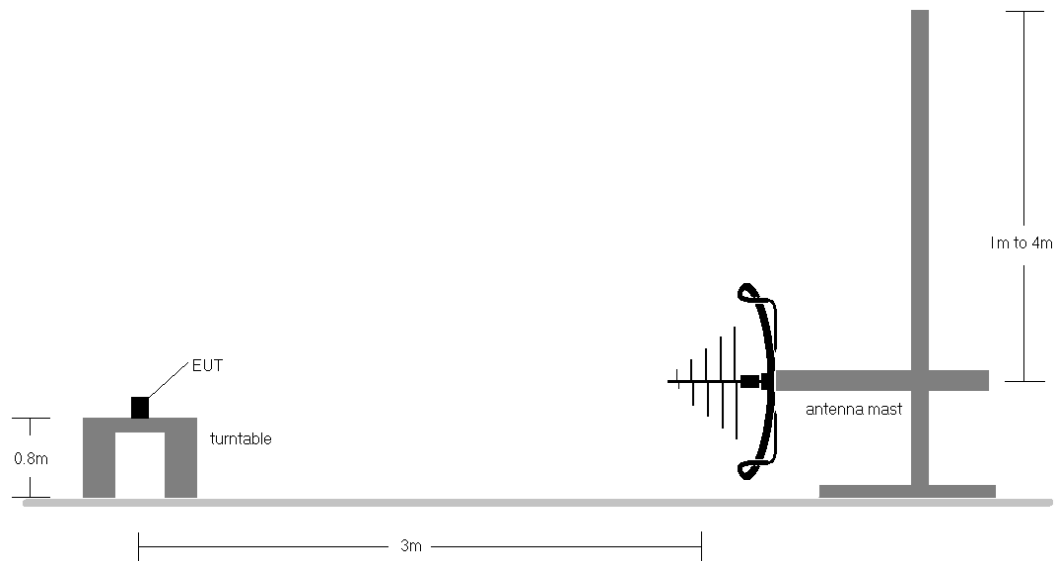
1. RBW = 1MHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 117 of 124                   |

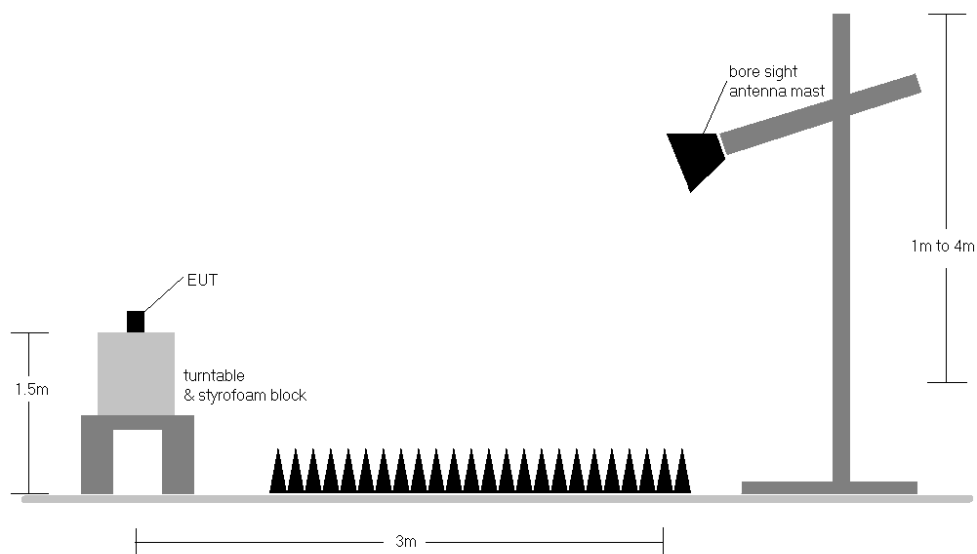
V3.0 1/6/2022

## Test Setup

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



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



**Figure 7-8. Test Instrument & Measurement Setup >1 GHz**

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 118 of 124                   |

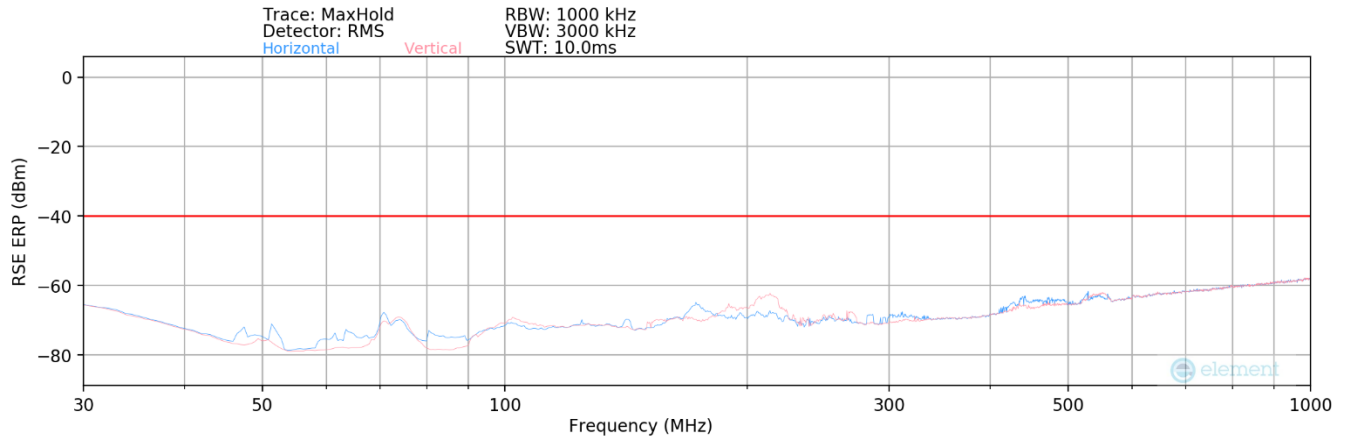
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## Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.
- 3) The spectrum is measured from 30MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) 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.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) Any failing emissions shown on wide band RSE plots were found to be passing upon closer inspection and measurement.

|                                                  |                                                                        |                                       |                                          |
|--------------------------------------------------|------------------------------------------------------------------------|---------------------------------------|------------------------------------------|
| <b>FCC ID:</b> 2AS22-LUMACH2                     | <b>PART 96 MEASUREMENT REPORT</b><br><b>Class II Permissive Change</b> |                                       | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2308230095-01.2AS22 | <b>Test Dates:</b><br>05/08/2023 – 08/24/2023                          | <b>EUT Type:</b><br>CBRS Radio Module | Page 119 of 124                          |

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Plot 7.183. Radiated Spurious Plot 30MHz-1GHz

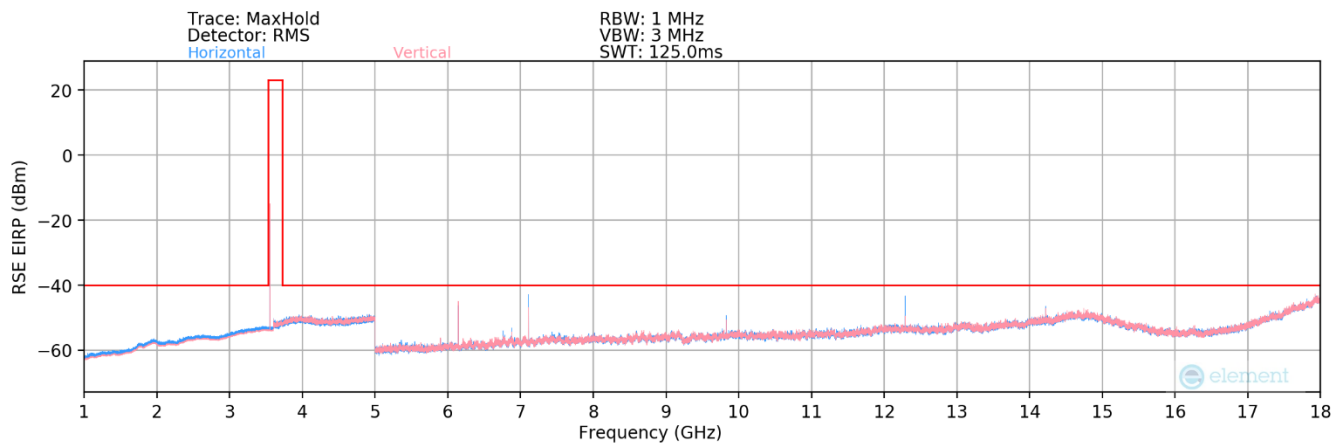
|                        |                |
|------------------------|----------------|
| Bandwidth (MHz):       | 10             |
| Frequency (MHz):       | 3625.0         |
| Modulation Signal:     | QPSK           |
| Detector / Trace Mode: | RMS / Max Hold |
| RBW / VBW:             | 1MHz / 3MHz    |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 51.10           | H               | 101                 | 251                        | -95.65               | 14.34       | 25.69                   | -69.57                             | -40.00      | -29.57      |
| 59.20           | H               | 100                 | 169                        | -96.46               | 13.93       | 24.47                   | -70.78                             | -40.00      | -30.78      |
| 71.00           | H               | 101                 | 309                        | -91.33               | 14.45       | 30.12                   | -65.14                             | -40.00      | -25.14      |
| 75.60           | H               | 110                 | 12                         | -93.92               | 14.38       | 27.46                   | -67.80                             | -40.00      | -27.80      |
| 93.20           | H               | 112                 | 222                        | -96.20               | 15.44       | 26.24                   | -69.01                             | -40.00      | -29.01      |
| 109.60          | H               | 100                 | 290                        | -97.07               | 19.33       | 29.26                   | -66.00                             | -40.00      | -26.00      |
| 139.50          | V               | 158                 | 288                        | -99.52               | 20.05       | 27.53                   | -67.73                             | -40.00      | -27.73      |
| 173.00          | V               | 139                 | 273                        | -95.44               | 18.99       | 30.55                   | -64.71                             | -40.00      | -24.71      |
| 218.00          | V               | 129                 | 91                         | -80.73               | 17.82       | 44.09                   | -51.16                             | -40.00      | -11.16      |
| 253.80          | V               | 101                 | 82                         | -81.01               | 18.74       | 44.73                   | -50.53                             | -40.00      | -10.53      |
| 265.40          | V               | 129                 | 84                         | -86.11               | 20.13       | 41.02                   | -54.24                             | -40.00      | -14.24      |

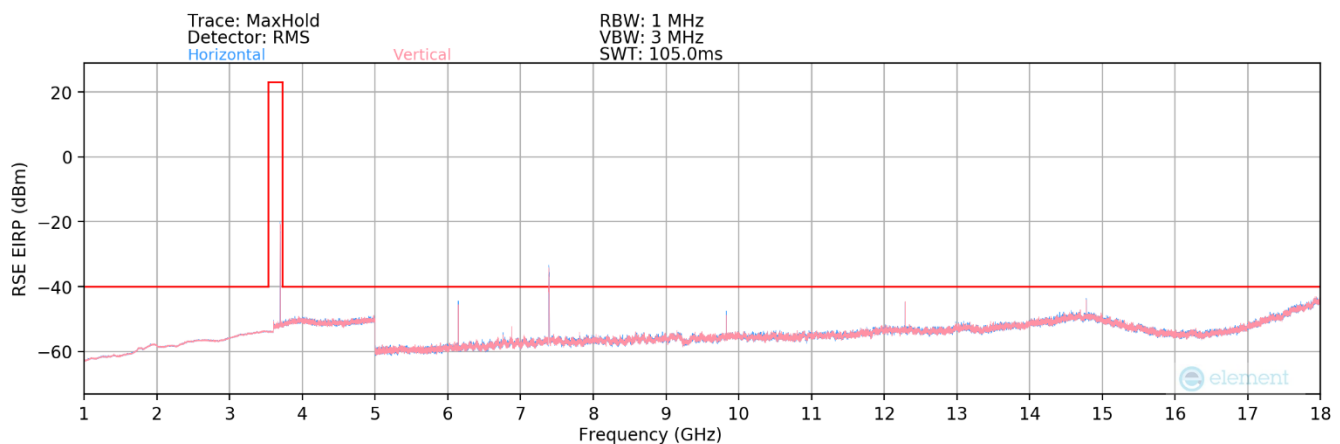
Table 7-7. Radiated Spurious Data 30MHz-1GHz - Mid Channel

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 120 of 124                   |

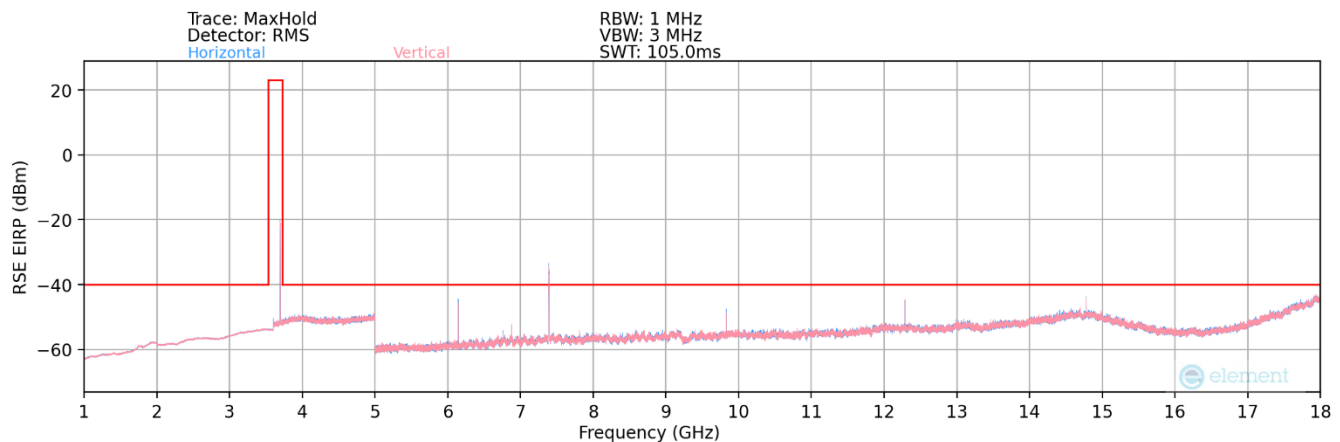




Plot 7.184. Radiated Spurious Plot 1-18GHz – Low Channel

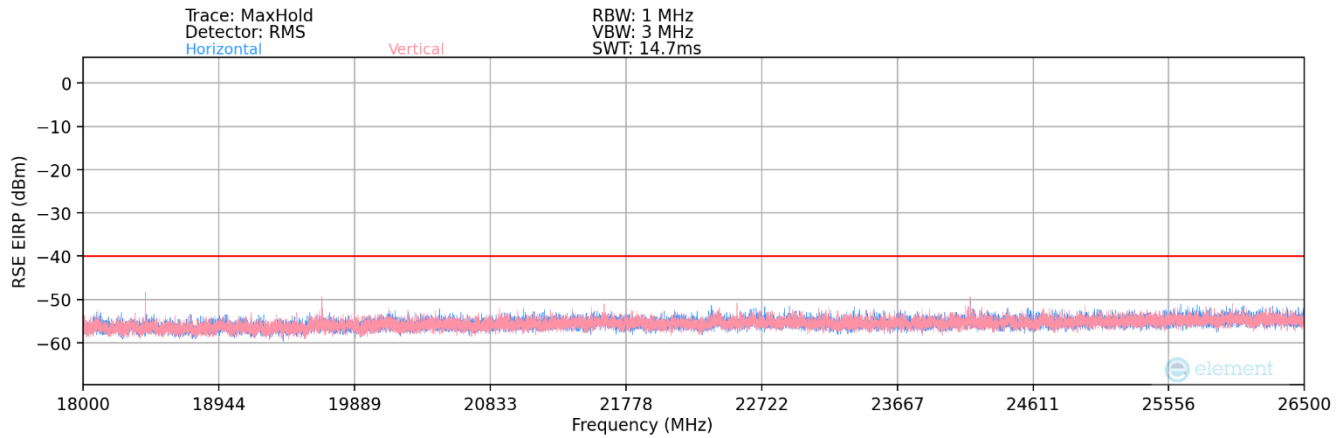


Plot 7.185. Radiated Spurious Plot 1-18GHz – Mid Channel

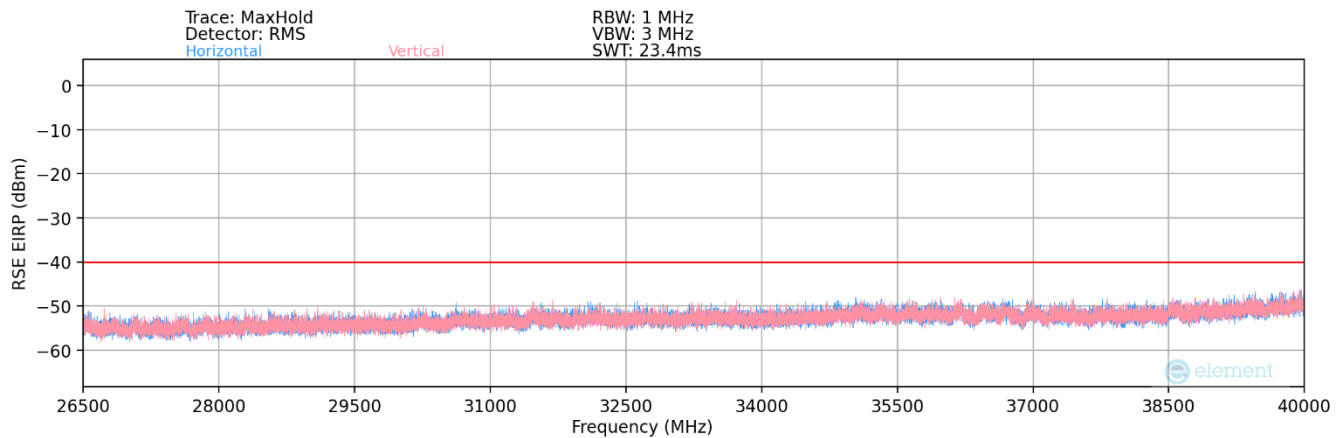


Plot 7.186. Radiated Spurious Plot 1-18GHz – High Channel

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 121 of 124                   |



Plot 7.187. Radiated Spurious Plot 18-26.5GHz



Plot 7.188. Radiated Spurious Plot 26.5-40GHz

|                        |                |
|------------------------|----------------|
| Bandwidth (MHz):       | 10             |
| Frequency (MHz):       | 3555.0         |
| Modulation Signal:     | QPSK           |
| Detector / Trace Mode: | RMS / Max Hold |
| RBW / VBW:             | 1MHz / 3MHz    |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 6144.00         | H               | 136                 | 196                        | -57.02               | 1.34        | 51.32                   | -43.94                             | -40.00      | -3.94       |
| 6758.50         | H               | 122                 | 180                        | -67.81               | 3.20        | 42.39                   | -52.87                             | -40.00      | -12.87      |
| 6811.00         | H               | -                   | -                          | -75.60               | 2.98        | 34.38                   | -60.88                             | -40.00      | -20.88      |
| 7110.00         | H               | 155                 | 239                        | -56.07               | 3.80        | 54.73                   | -40.53                             | -40.00      | -0.53       |
| 10665.00        | H               | 137                 | 258                        | -78.42               | 7.81        | 36.39                   | -58.87                             | -40.00      | -18.87      |
| 12288.00        | V               | 167                 | 191                        | -65.97               | 9.47        | 50.50                   | -44.76                             | -40.00      | -4.76       |
| 14220.00        | H               | 187                 | 179                        | -73.26               | 12.22       | 45.96                   | -49.30                             | -40.00      | -9.30       |
| 17775.00        | H               | -                   | -                          | -77.26               | 15.47       | 45.21                   | -50.05                             | -40.00      | -10.05      |
| 21330.00        | H               | -                   | -                          | -57.89               | 4.04        | 53.15                   | -51.65                             | -40.00      | -11.65      |
| 24885.00        | H               | -                   | -                          | -58.07               | 4.19        | 53.13                   | -51.67                             | -40.00      | -11.67      |
| 28440.00        | H               | -                   | -                          | -58.04               | 5.26        | 54.21                   | -50.59                             | -40.00      | -10.59      |

Table 7-8. Radiated Spurious Data – Low Channel

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 122 of 124                   |

|                        |                |
|------------------------|----------------|
| Bandwidth (MHz):       | 10             |
| Frequency (MHz):       | 3625.0         |
| Modulation Signal:     | QPSK           |
| Detector / Trace Mode: | RMS / Max Hold |
| RBW / VBW:             | 1MHz / 3MHz    |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 6144.00         | V               | 185                 | 196                        | -62.69               | 1.34        | 45.65                   | -49.61                             | -40.00      | -9.61       |
| 6758.50         | H               | 250                 | 240                        | -64.81               | 2.98        | 45.17                   | -50.09                             | -40.00      | -10.09      |
| 6811.00         | H               | 131                 | 235                        | -65.24               | 3.20        | 44.96                   | -50.30                             | -40.00      | -10.30      |
| 7250.00         | H               | 176                 | 224                        | -58.25               | 3.66        | 52.41                   | -42.85                             | -40.00      | -2.85       |
| 10875.00        | H               | -                   | -                          | -78.22               | 8.05        | 36.83                   | -58.43                             | -40.00      | -18.43      |
| 12288.00        | V               | 210                 | 216                        | -61.23               | 9.47        | 55.24                   | -40.02                             | -40.00      | -0.02       |
| 14500.00        | H               | 122                 | 232                        | -75.94               | 13.04       | 44.10                   | -51.16                             | -40.00      | -11.16      |
| 18125.00        | H               | -                   | -                          | -55.39               | 1.60        | 53.21                   | -51.59                             | -40.00      | -11.59      |
| 18432.00        | H               | 150                 | 193                        | -52.44               | 1.66        | 56.22                   | -48.58                             | -40.00      | -8.58       |
| 21750.00        | H               | -                   | -                          | -55.59               | 3.86        | 55.27                   | -49.53                             | -40.00      | -9.53       |
| 24162.00        | V               | 150                 | 63                         | -54.17               | 4.27        | 57.10                   | -47.70                             | -40.00      | -7.70       |
| 25375.00        | H               | -                   | -                          | -58.12               | 4.26        | 53.15                   | -51.66                             | -40.00      | -11.66      |
| 29000.00        | H               | -                   | -                          | -58.32               | 5.40        | 54.08                   | -50.72                             | -40.00      | -10.72      |
| 32625.00        | H               | -                   | -                          | -57.67               | 7.10        | 56.43                   | -48.37                             | -40.00      | -8.37       |

Table 7-9. Radiated Spurious Data – Mid Channel

|                        |                |
|------------------------|----------------|
| Bandwidth (MHz):       | 10             |
| Frequency (MHz):       | 3695.0         |
| Modulation Signal:     | QPSK           |
| Detector / Trace Mode: | RMS / Max Hold |
| RBW / VBW:             | 1MHz / 3MHz    |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 6144.00         | V               | 157                 | 210                        | -57.89               | 1.34        | 50.45                   | -44.81                             | -40.00      | -4.81       |
| 6758.50         | V               | 110                 | 182                        | -67.83               | 2.98        | 42.15                   | -53.11                             | -40.00      | -13.11      |
| 6811.00         | H               | -                   | -                          | -75.67               | 3.20        | 34.53                   | -60.73                             | -40.00      | -20.73      |
| 7390.00         | H               | 197                 | 243                        | -59.73               | 4.26        | 51.53                   | -43.73                             | -40.00      | -3.73       |
| 11085.00        | V               | -                   | -                          | -78.69               | 8.18        | 36.49                   | -58.77                             | -40.00      | -18.77      |
| 12288.00        | V               | 179                 | 191                        | -66.22               | 9.47        | 50.25                   | -45.01                             | -40.00      | -5.01       |
| 14780.00        | V               | 199                 | 167                        | -71.10               | 13.43       | 49.33                   | -45.93                             | -40.00      | -5.93       |
| 18475.00        | V               | -                   | -                          | -57.54               | 1.86        | 51.32                   | -53.48                             | -40.00      | -13.48      |
| 22170.00        | V               | -                   | -                          | -58.54               | 3.80        | 52.27                   | -52.54                             | -40.00      | -12.54      |
| 25865.00        | V               | -                   | -                          | -56.80               | 4.65        | 54.85                   | -49.95                             | -40.00      | -9.95       |

Table 7-10. Radiated Spurious Data – High Channel

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
| FCC ID: 2AS22-LUMACH2                     | PART 96 MEASUREMENT REPORT<br>Class II Permissive Change |                                | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 123 of 124                   |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Skylark Wireless, LLC CBRS Radio Module FCC ID: 2AS22-LUMACH2** complies with all of the Category B CBSD requirements of Part 96 of the FCC Rules for Band 48 operation only when integrating up to 7 modules into a single chassis.

|                                           |                                                          |                                |                                   |
|-------------------------------------------|----------------------------------------------------------|--------------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2308230095-01.2AS22 | Test Dates:<br>05/08/2023 – 08/24/2023                   | EUT Type:<br>CBRS Radio Module | Page 124 of 124                   |

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