**Audix Technology Corp.**
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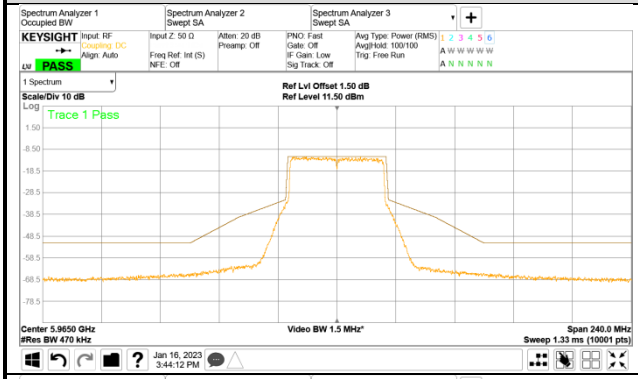
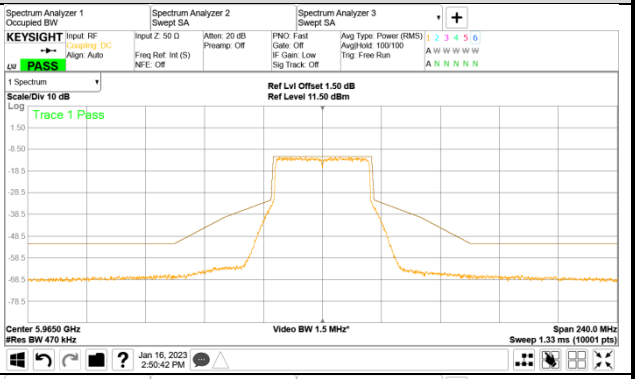
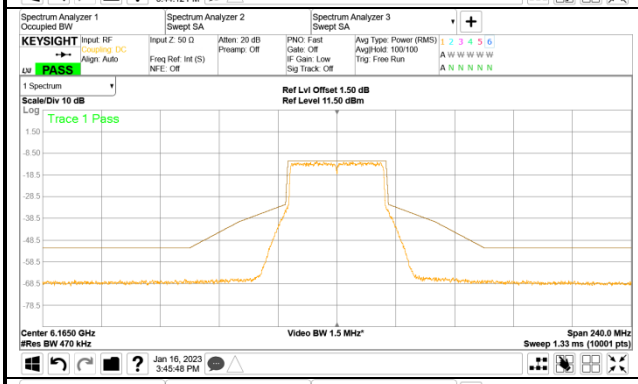
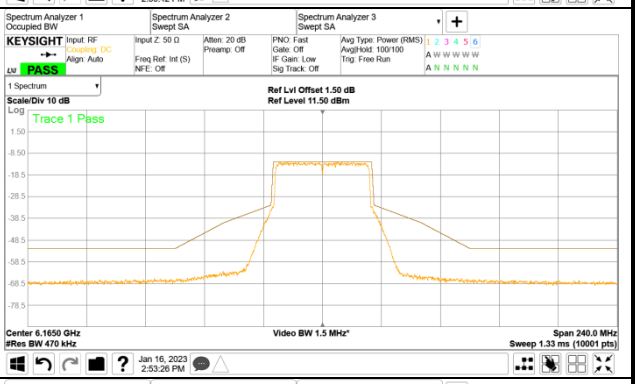
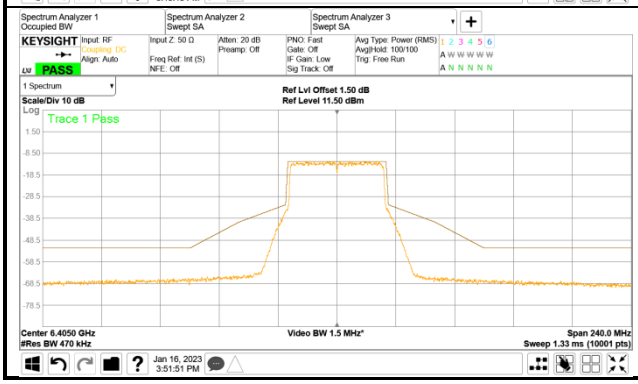
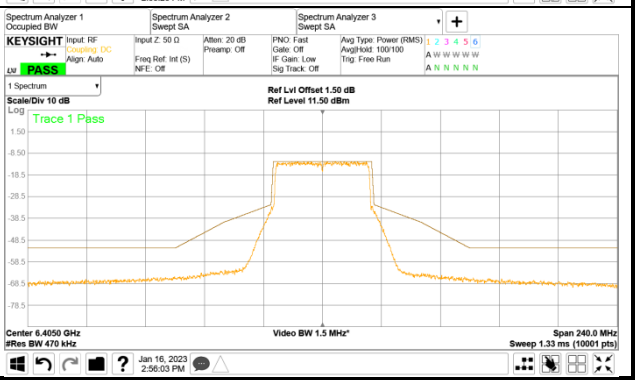
**Tel: +886 2 26099301**
**Fax: +886 2 26099303**

| Mode: 802.11ax-HE40 | |
|---|---|
| AUX | Main |
| U-NII Band 5 | U-NII Band 5 |
|  |  |
|  |  |
|  |  |



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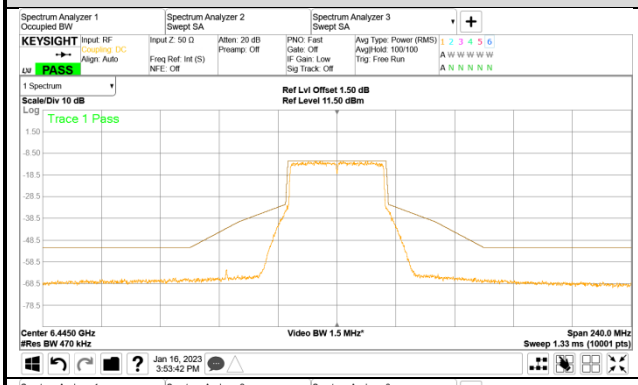
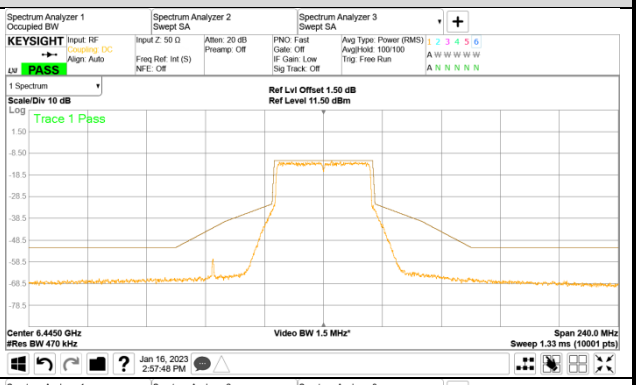
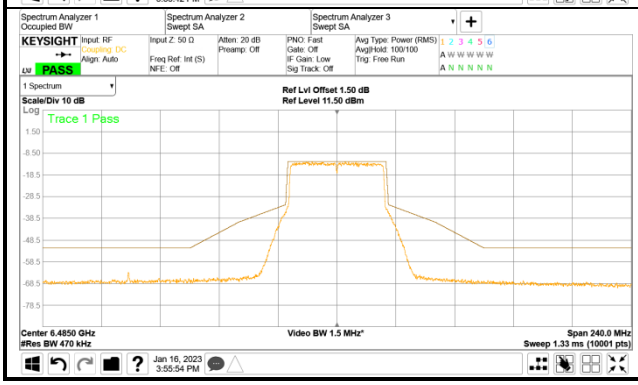
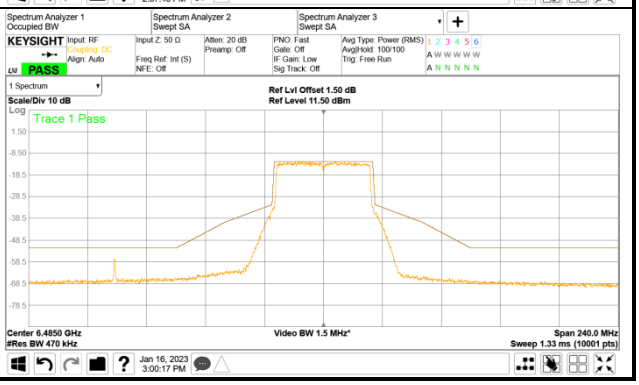
**Fax: +886 2 26099303**

| Mode: 802.11ax-HE40 | |
|---|---|
| AUX | Main |
| U-NII Band 6 | U-NII Band 6 |
|  |  |
|  |  |



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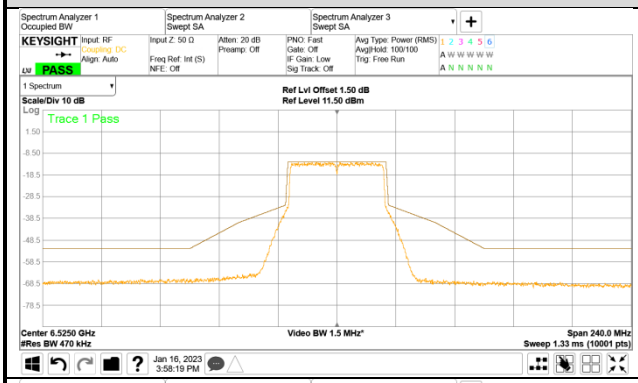
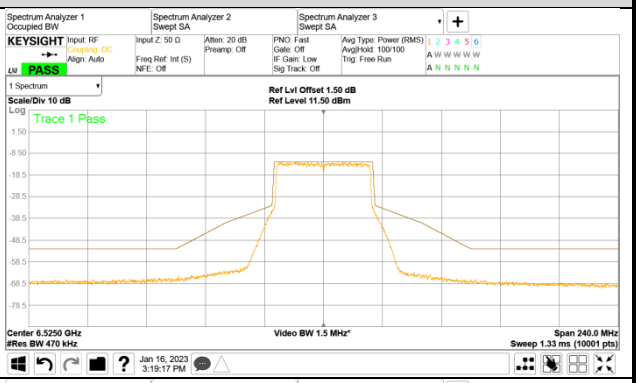
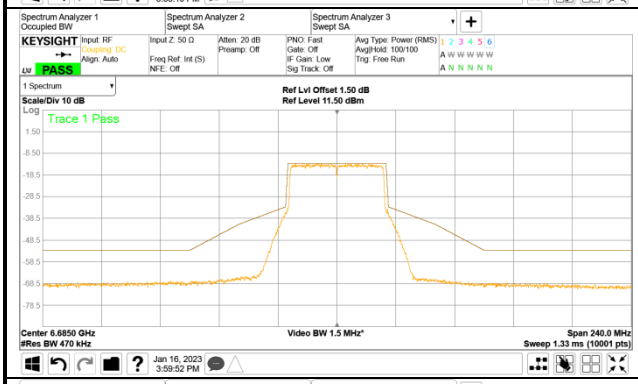
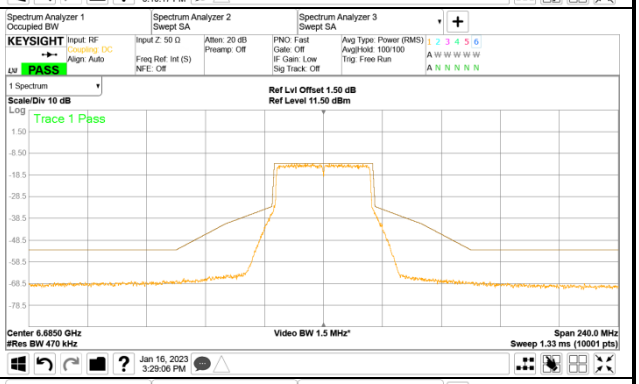
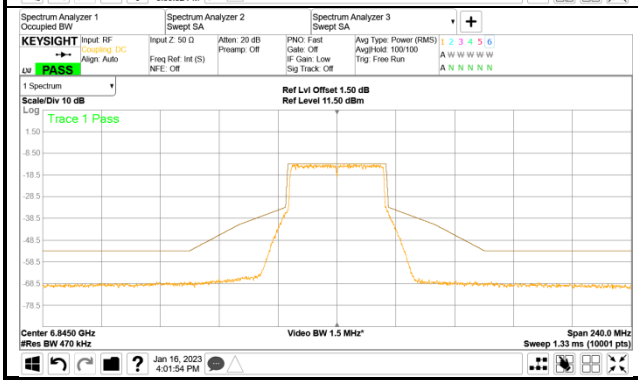
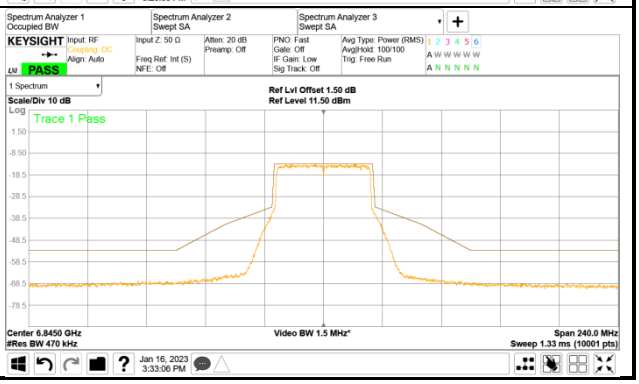
| Mode: 802.11ax-HE40 | |
|---|---|
| AUX | Main |
| U-NII Band 7 | U-NII Band 7 |
|  |  |
|  |  |
|  |  |



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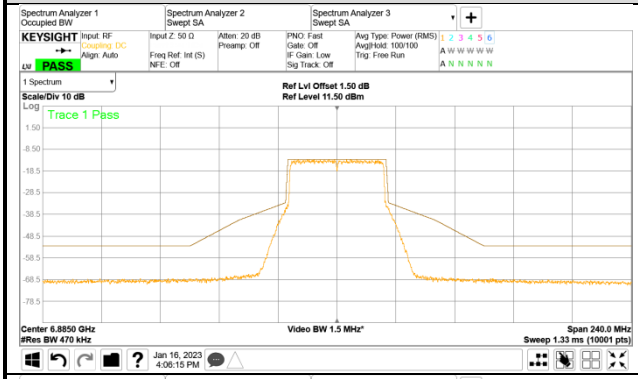
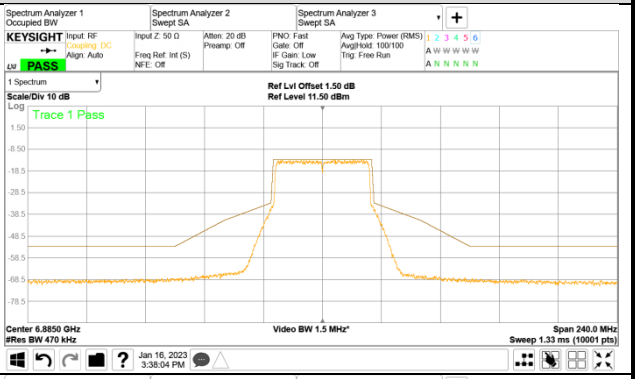
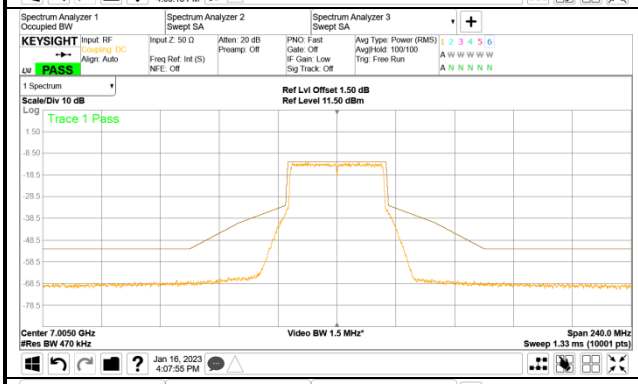
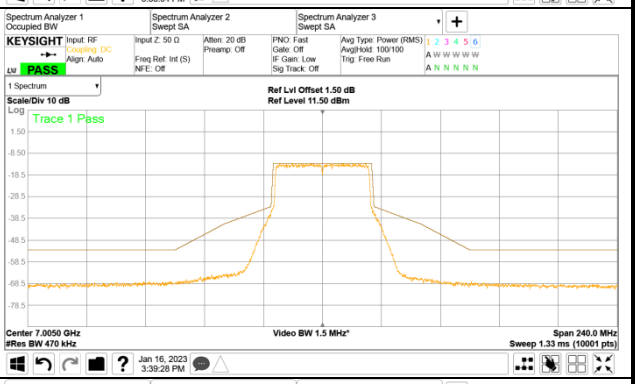
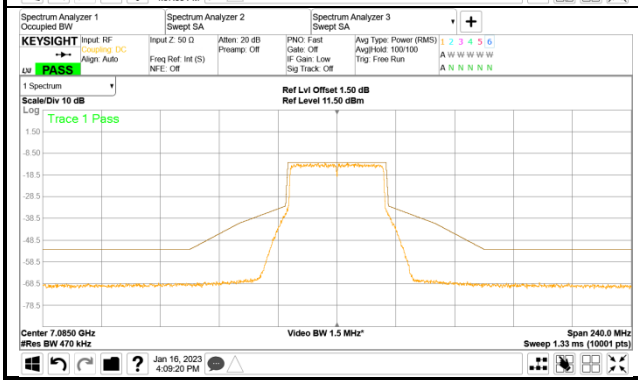
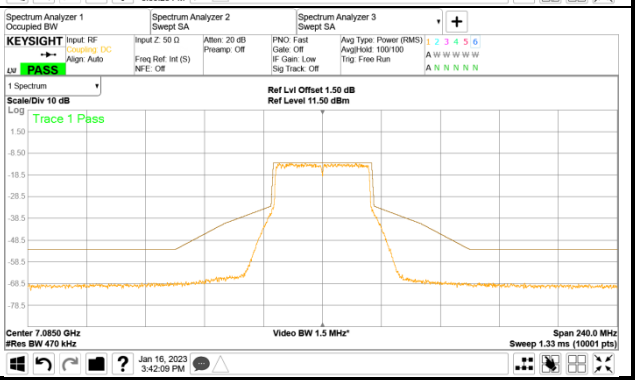
| Mode: 802.11ax-HE40 | |
|---|---|
| AUX | Main |
| U-NII Band 8 | U-NII Band 8 |
|  |  |
|  |  |
|  |  |



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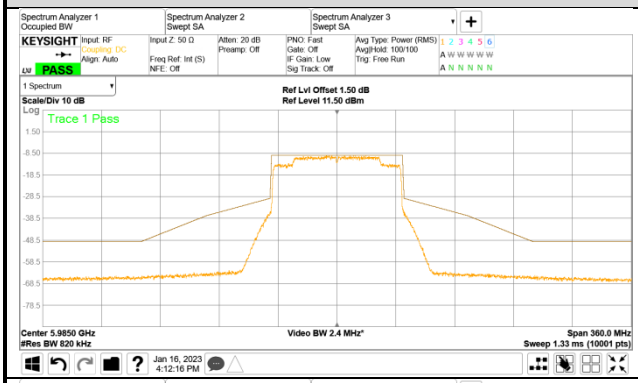
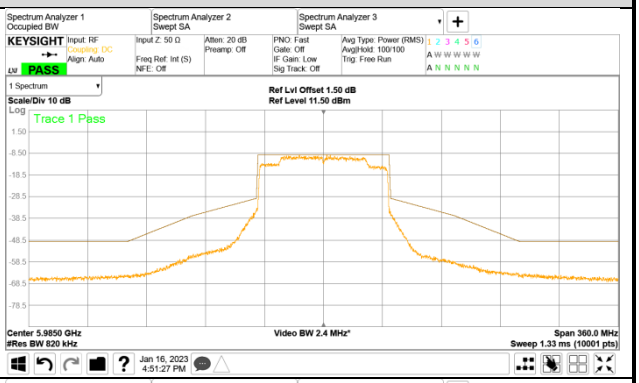
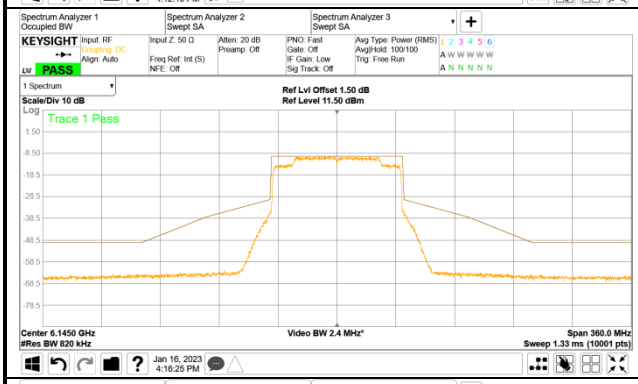
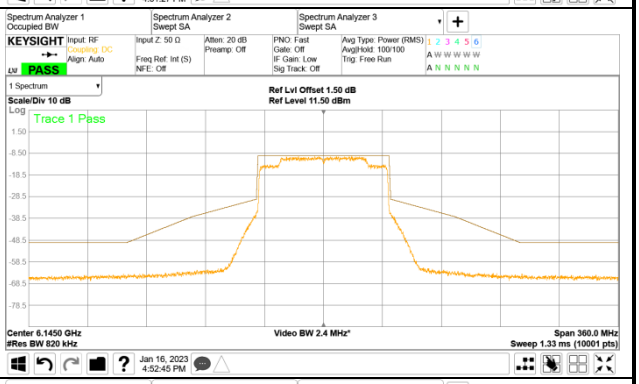
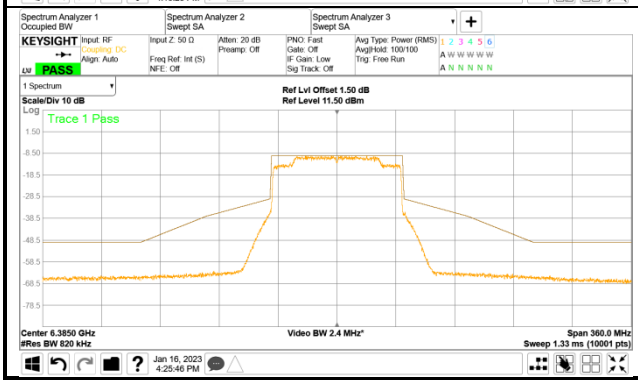
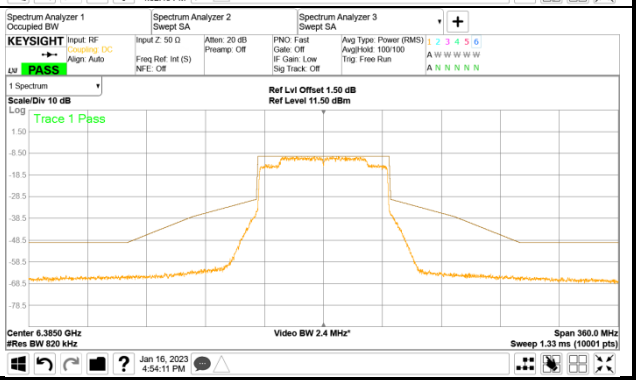
| Mode: 802.11ax-HE80 | |
|---|---|
| AUX | Main |
| U-NII Band 5 | U-NII Band 5 |
|  |  |
|  |  |
|  |  |



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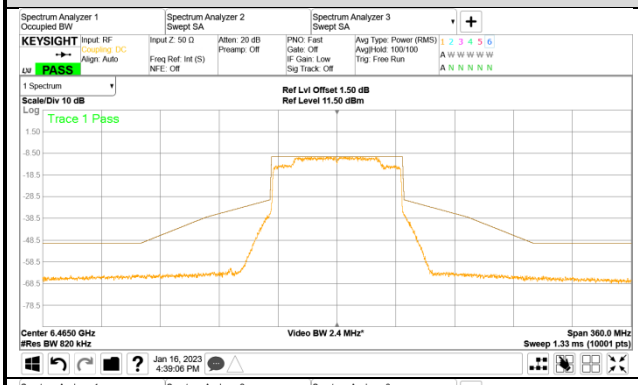
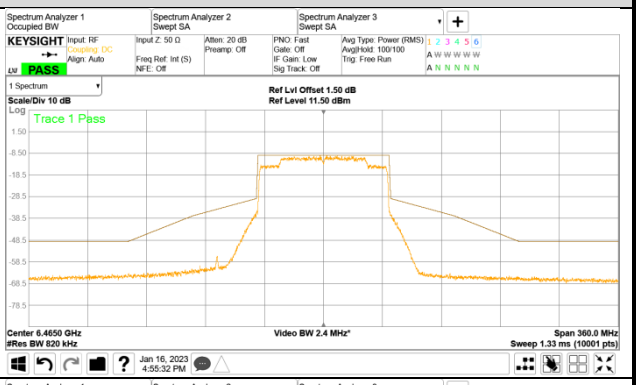
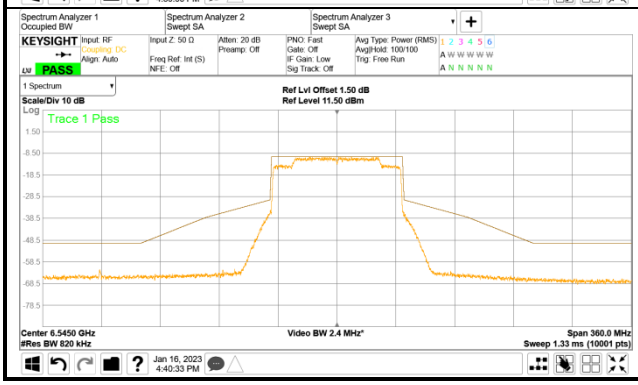
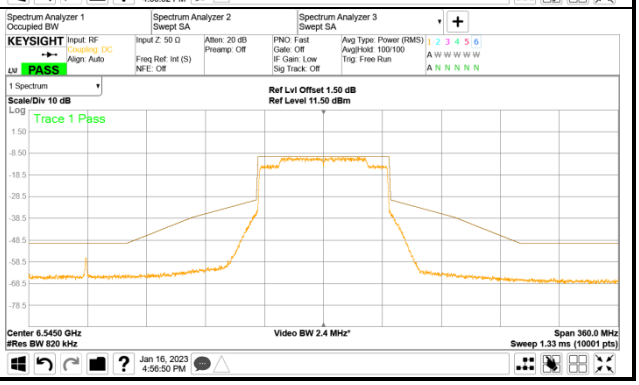
| Mode: 802.11ax-HE80 | |
|---|---|
| AUX | Main |
| U-NII Band 6 | U-NII Band 6 |
|  |  |
|  |  |



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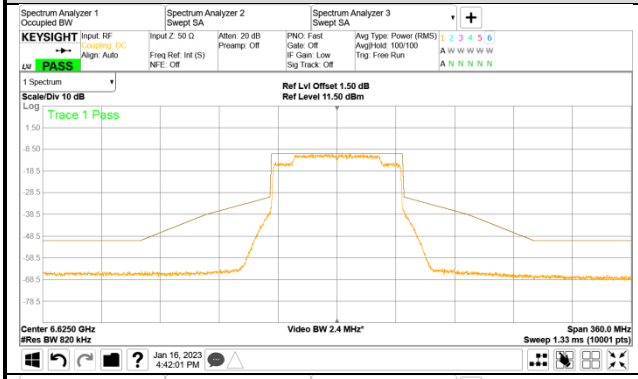
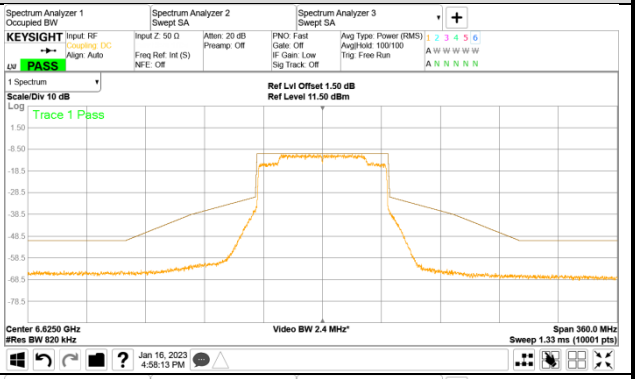
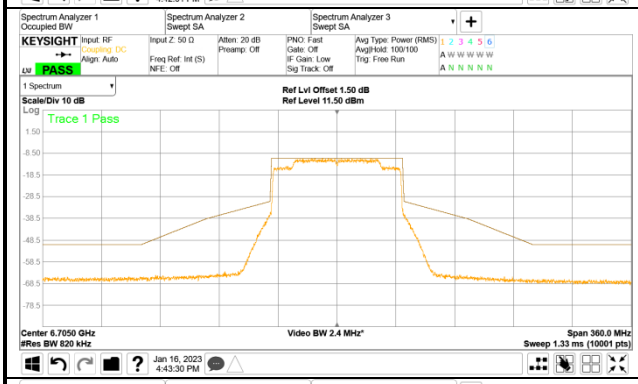
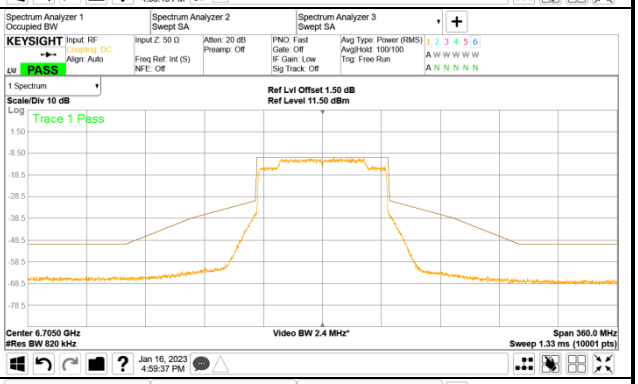
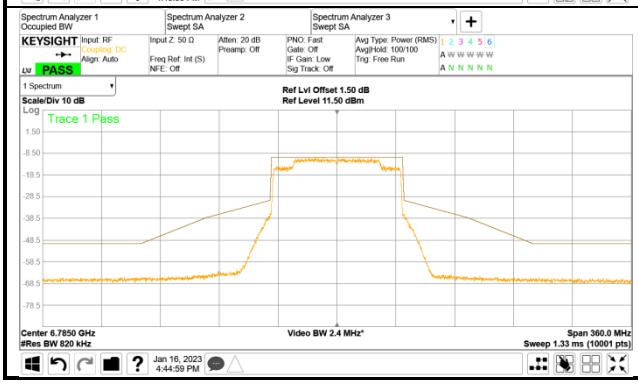
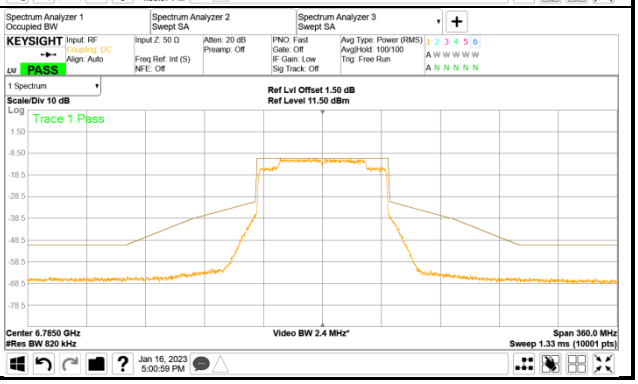
| Mode: 802.11ax-HE80 | |
|---|---|
| AUX | Main |
| U-NII Band 7 | U-NII Band 7 |
|  |  |
|  |  |
|  |  |



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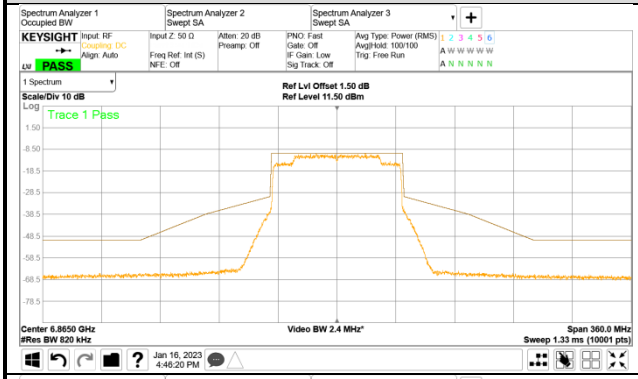
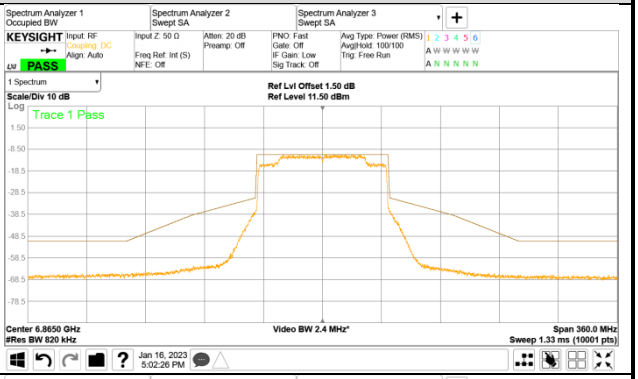
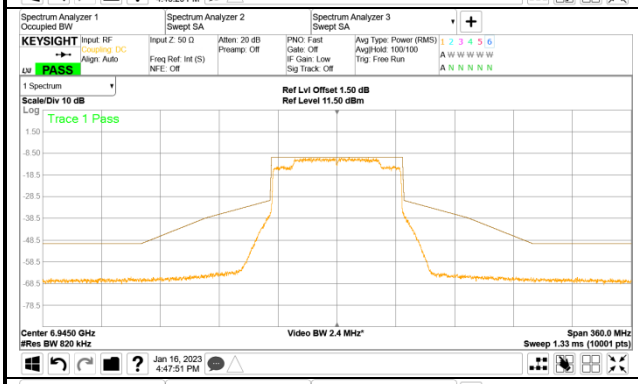
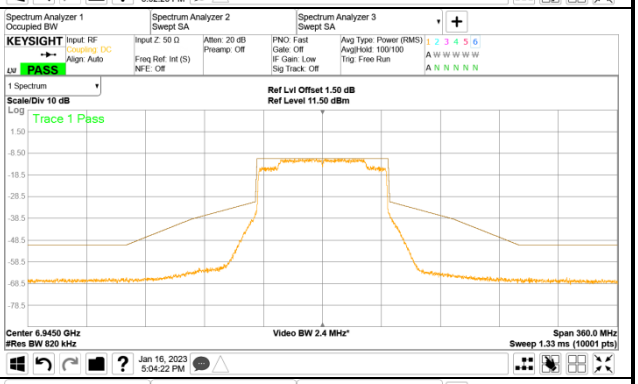
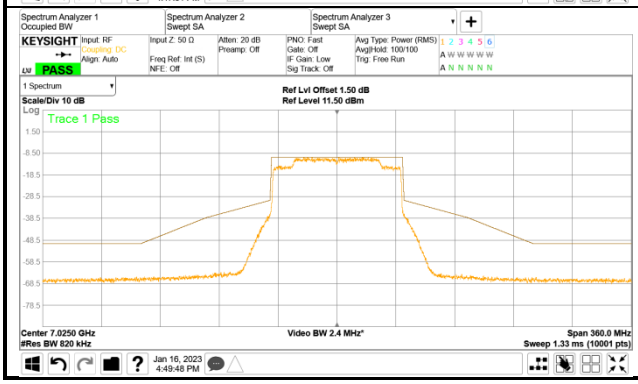
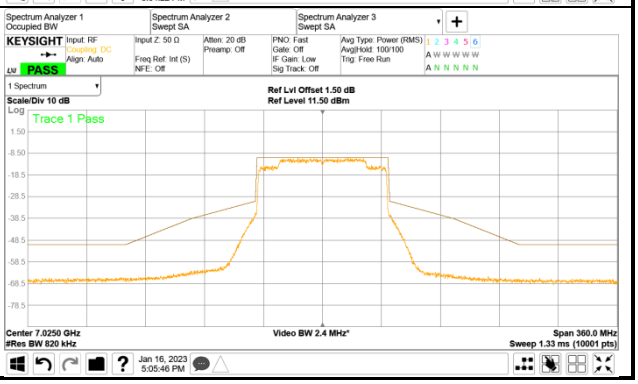
**Fax: +886 2 26099303**

| Mode: 802.11ax-HE80 | |
|---|---|
| AUX | Main |
| U-NII Band 8 | U-NII Band 8 |
|  |  |
|  |  |
|  |  |



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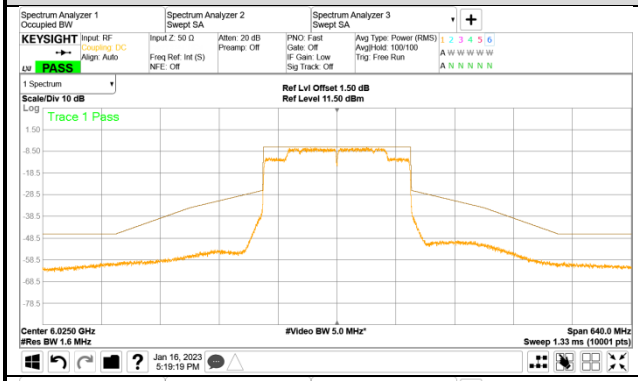
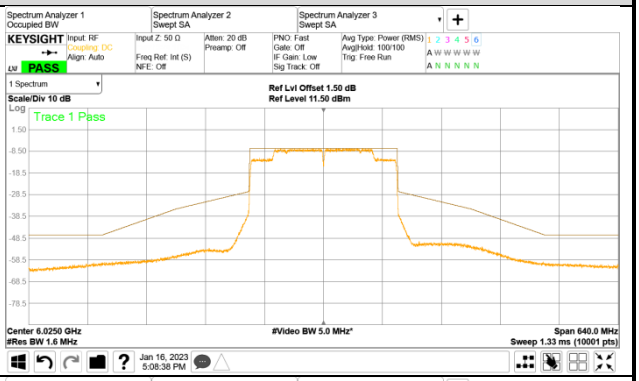
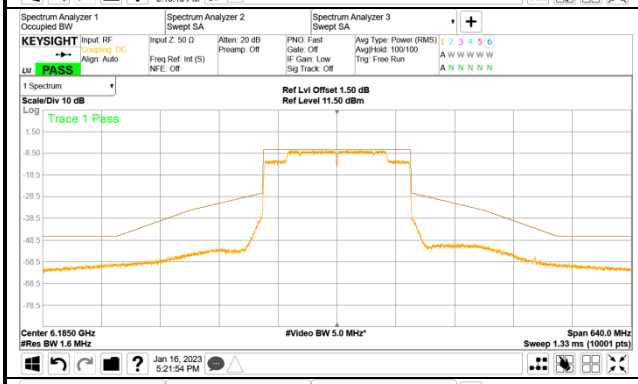
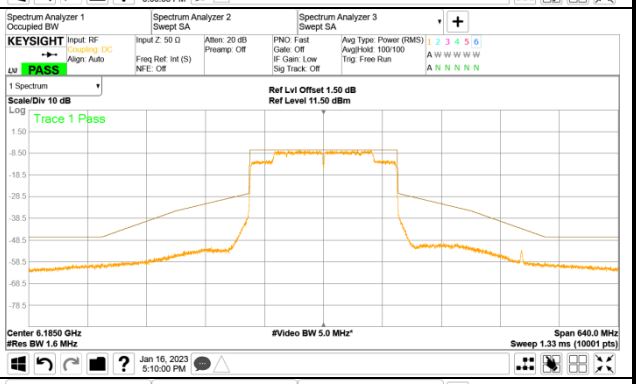
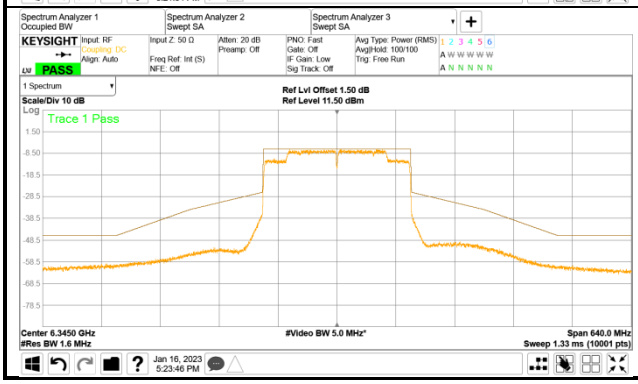
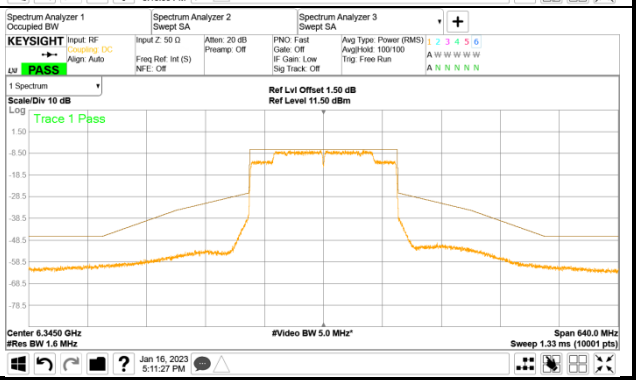
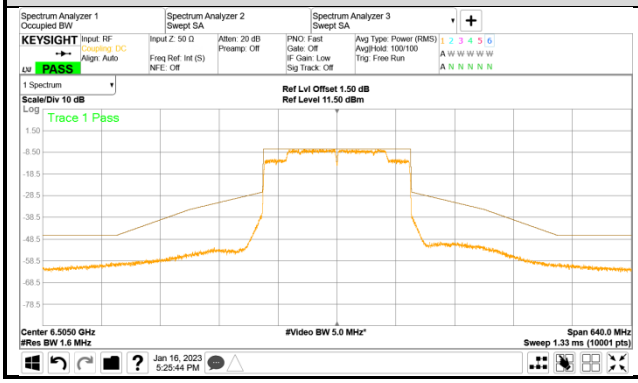
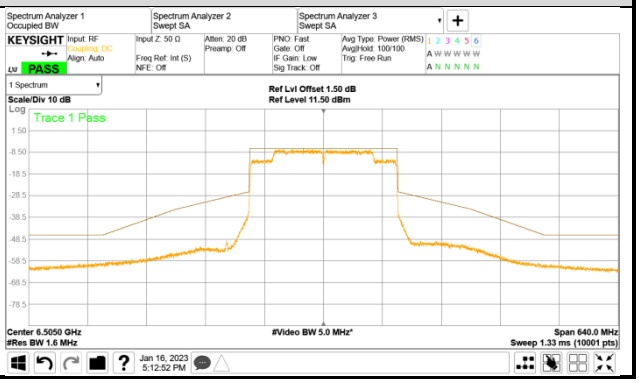
| Mode: 802.11ax-HE160 | |
|---|---|
| AUX | Main |
| U-NII Band 5 | U-NII Band 5 |
|  |  |
|  |  |
|  |  |

| Mode: 802.11ax-HE160 | |
|---|---|
| AUX | Main |
| U-NII Band 6 | U-NII Band 6 |
|  |  |



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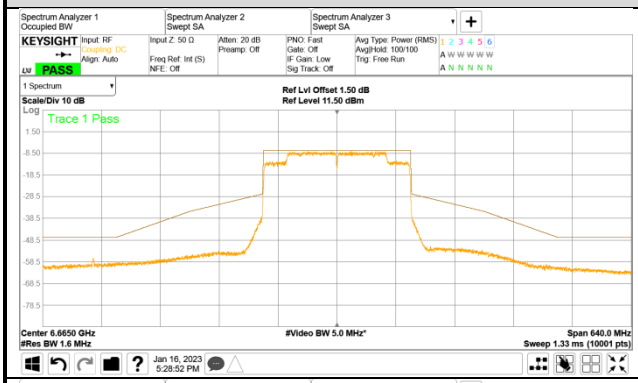
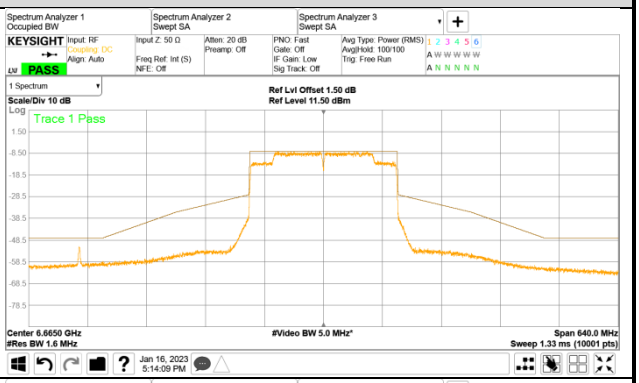
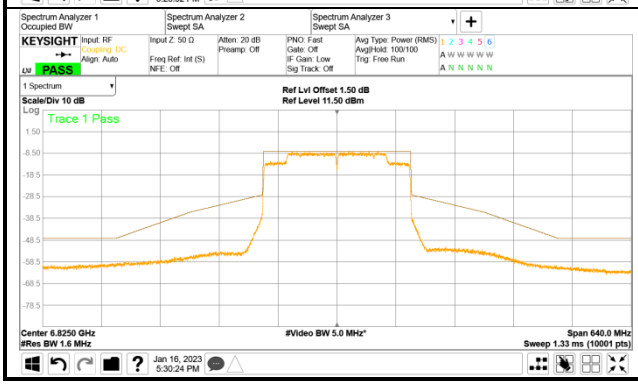
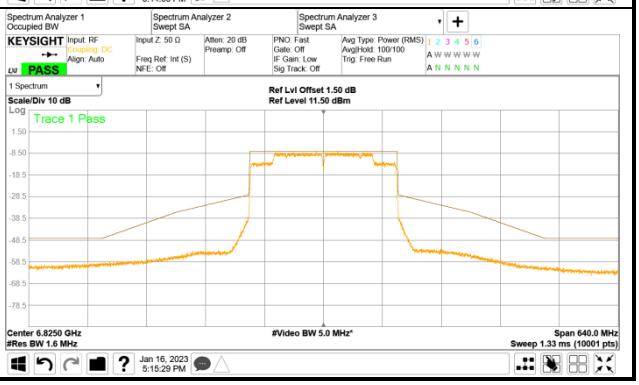
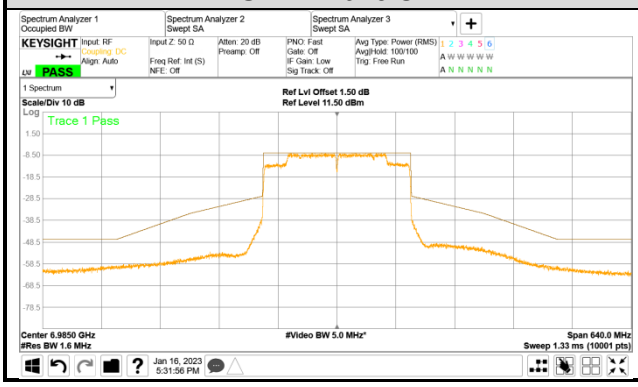
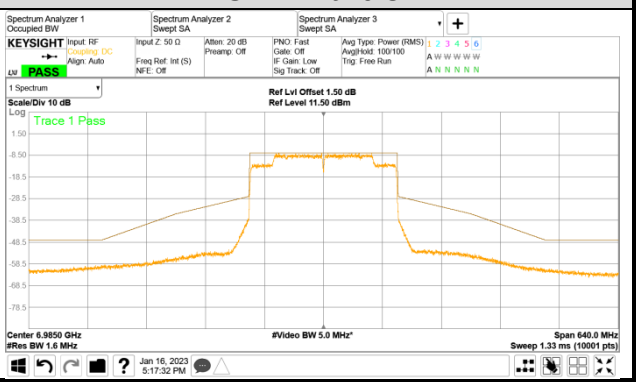
| Mode: 802.11ax-HE160 | |
|---|---|
| AUX | Main |
| U-NII Band 7 | U-NII Band 7 |
|  |  |
|  |  |

| Mode: 802.11ax-HE160 | |
|---|---|
| AUX | Main |
| U-NII Band 8 | U-NII Band 8 |
|  |  |



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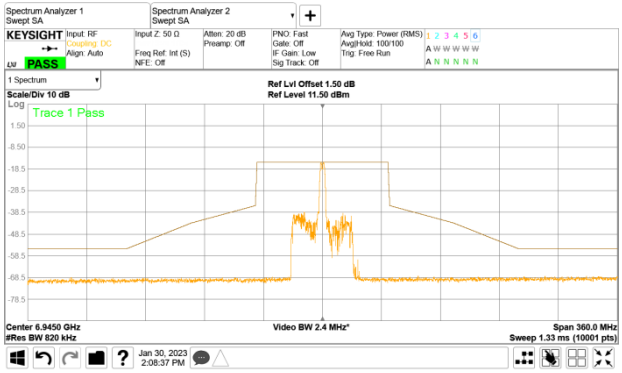
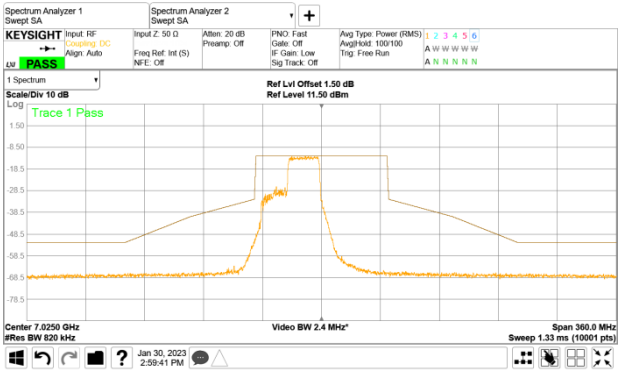
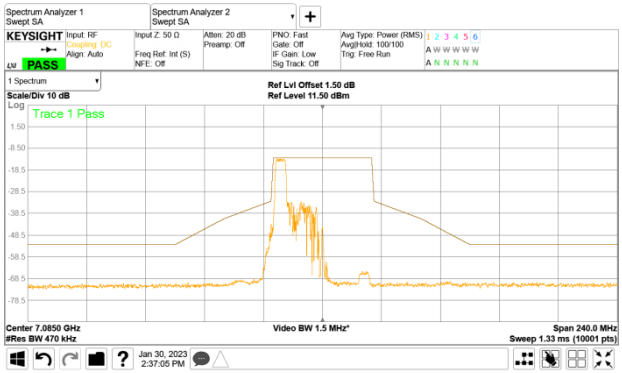
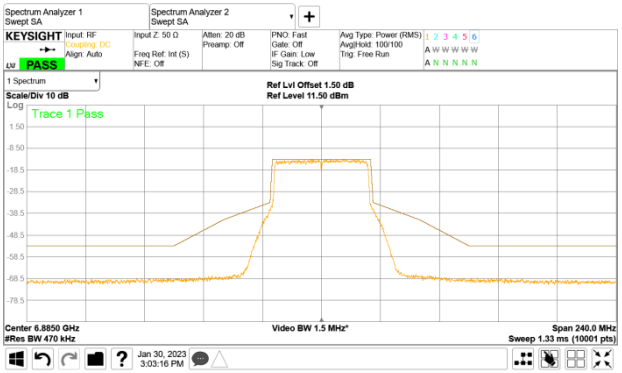
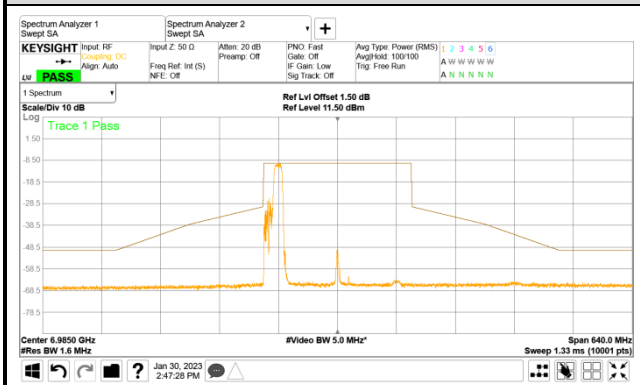
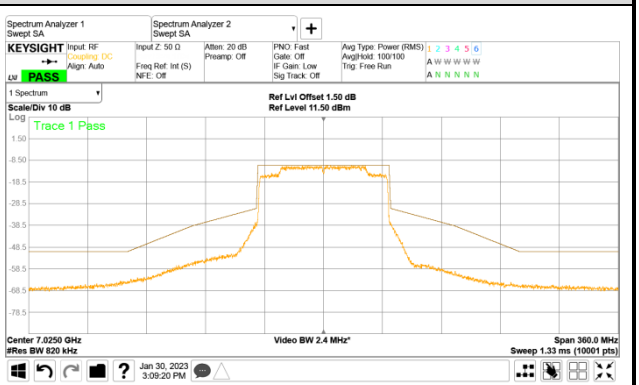
- OFDMA Modulation

| ANT AUX Port | |
|---|---|
| Tones: 26T | Tones: 242T |
| 802.11ax-HE80, RU Index: 18 | 802.11ax-HE80, RU Index: 62 |
| Centre Frequency: 6945MHz | Centre Frequency: 7025MHz |
|  |  |
| Tones: 52T | Tones: 484T |
| 802.11ax-HE40, RU Index: 37 | 802.11ax-HE40, RU Index: 65 |
| Centre Frequency: 7085MHz | Centre Frequency: 6885MHz |
|  |  |
| Tones: 106T | Tones: 996T |
| 802.11ax-HE160, RU Index: 60 | 802.11ax-HE80, RU Index: 67 |
| Centre Frequency: 6985MHz | Centre Frequency: 7025MHz |
|  |  |



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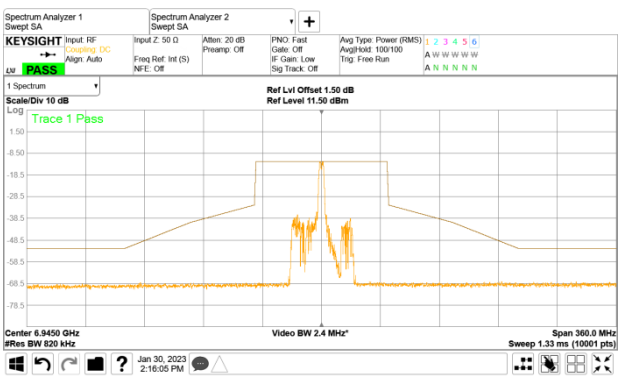
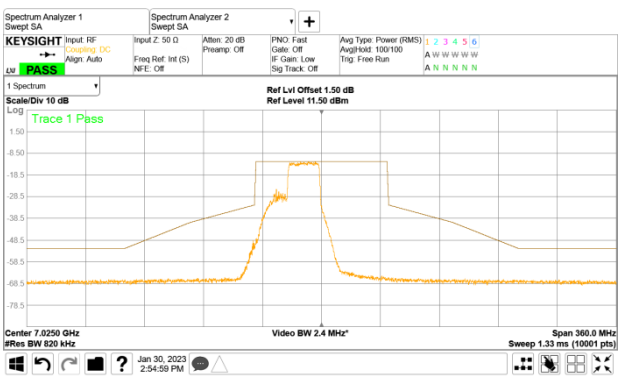
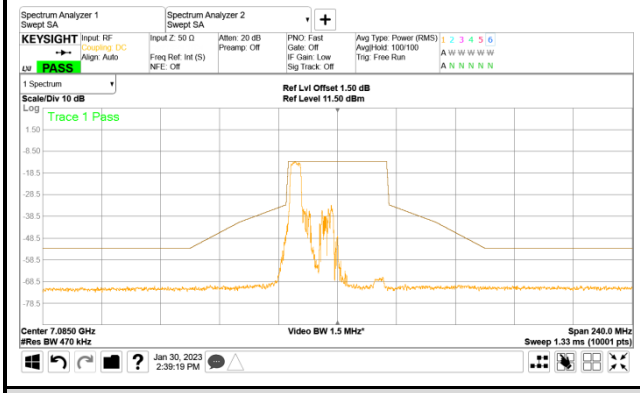
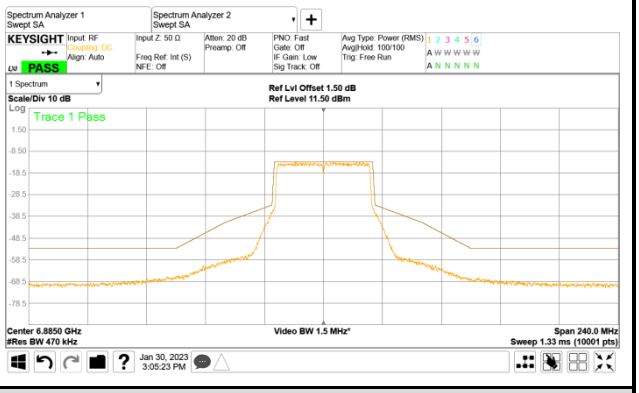
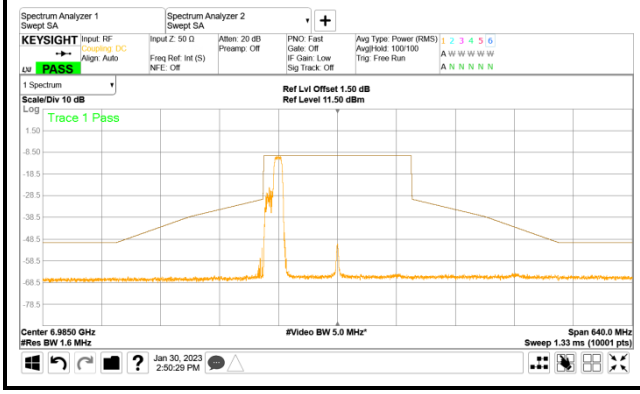
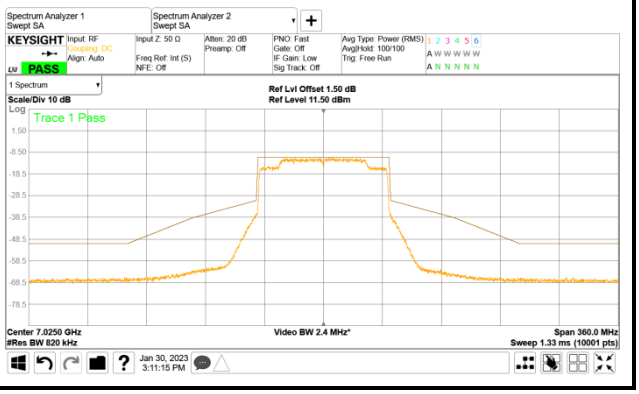
| ANT Main Port | |
|---|---|
| Tones: 26T | Tones: 242T |
| 802.11ax-HE80, RU Index: 18 | 802.11ax-HE80, RU Index: 62 |
| Centre Frequency: 6945MHz | Centre Frequency: 7025MHz |
|  |  |
| Tones: 52T | Tones: 484T |
| 802.11ax-HE40, RU Index: 37 | 802.11ax-HE40, RU Index: 65 |
| Centre Frequency: 7085MHz | Centre Frequency: 6885MHz |
|  |  |
| Tones: 106T | Tones: 996T |
| 802.11ax-HE160, RU Index: 60 | 802.11ax-HE80, RU Index: 67 |
| Centre Frequency: 6985MHz | Centre Frequency: 7025MHz |
|  |  |



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# A.8 CONTENTION BASED PROTOCOL

| | | | |
|---|---|---|---|
| Test Date | 2023/04/06 ~ 07 | Temp./Hum. | 22 ~ 24℃/58 ~ 62% |
| Cable Loss | N/A | Tested By | Sam Chang |
| Test Voltage | AC 120V 60Hz (Via AC Adapter) | | |

## A.8.1 Contention-based Protocol

- Contention-based Protocol Threshold Incumbent Signal & Mini. Detection level

| Mode | U-NII Band | EUT Frequency (MHz) | AWGN Frequency (MHz) | Injected AWGN Power (dBm) | Min. Antenna Gain (Include path loss) (dBi) *Note1 | Adjusted Power (dBm) | Detection Limit (dBm) | EUT Tx Status |
|---|---|---|---|---|---|---|---|---|
| 802.11ax-HE20 | 5 | 6135 | 6135 | -74.50 | -0.50 | -74.00 | -62 | OFF |
| | | | 6135 | -79.50 | -0.50 | -79.00 | -62 | Minimum |
| | | | 6135 | -81.50 | -0.50 | -81.00 | -62 | ON |
| | 6 | 6455 | 6455 | -73.00 | -0.50 | -72.50 | -62 | OFF |
| | | | 6455 | -79.50 | -0.50 | -79.00 | -62 | Minimum |
| | | | 6455 | -81.50 | -0.50 | -81.00 | -62 | ON |
| | 7 | 6695 | 6695 | -71.50 | -0.50 | -71.00 | -62 | OFF |
| | | | 6695 | -78.50 | -0.50 | -78.00 | -62 | Minimum |
| | | | 6695 | -82.00 | -0.50 | -81.50 | -62 | ON |
| | 8 | 7015 | 7015 | -75.50 | -0.50 | -75.00 | -62 | OFF |
| | | | 7015 | -80.50 | -0.50 | -80.00 | -62 | Minimum |
| | | | 7015 | -82.50 | -0.50 | -82.00 | -62 | ON |

Note 1: the listed Min. gain of EUT was included path loss.
Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) *Note1.
Note 3: The AWGN level is reported for the following conditions:
- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.
Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.



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| Mode | U-NII Band | EUT Frequency (MHz) | AWGN Frequency (MHz) | Injected AWGN Power (dBm) | Min. Antenna Gain (Include path loss) (dBi) *Note1 | Adjusted Power (dBm) | Detection Limit (dBm) | EUT Tx Status |
|---|---|---|---|---|---|---|---|---|
| 802.11ax-HE160 | 5 | 6185 | 6110 | -79.50 | -0.50 | -79.00 | -62 | OFF |
| | | | 6110 | -80.50 | -0.50 | -80.00 | -62 | Minimum |
| | | | 6110 | -82.50 | -0.50 | -82.00 | -62 | ON |
| | | | 6185 | -69.50 | -0.50 | -69.00 | -62 | OFF |
| | | | 6185 | -76.00 | -0.50 | -75.50 | -62 | Minimum |
| | | | 6185 | -78.50 | -0.50 | -78.00 | -62 | ON |
| | | | 6260 | -74.00 | -0.50 | -73.50 | -62 | OFF |
| | | | 6260 | -78.00 | -0.50 | -77.50 | -62 | Minimum |
| | | | 6260 | -81.00 | -0.50 | -80.50 | -62 | ON |
| | 6-7 | 6505 | 6430 | -78.30 | -0.50 | -77.80 | -62 | OFF |
| | | | 6430 | -80.80 | -0.50 | -80.30 | -62 | Minimum |
| | | | 6430 | -83.30 | -0.50 | -82.80 | -62 | ON |
| | | | 6505 | -71.00 | -0.50 | -70.50 | -62 | OFF |
| | | | 6505 | -76.00 | -0.50 | -75.50 | -62 | Minimum |
| | | | 6505 | -79.00 | -0.50 | -78.50 | -62 | ON |
| | | | 6580 | -73.50 | -0.50 | -73.00 | -62 | OFF |
| | | | 6580 | -76.50 | -0.50 | -76.00 | -62 | Minimum |
| | | | 6580 | -79.50 | -0.50 | -79.00 | -62 | ON |
| | 7 | 6665 | 6590 | -79.50 | -0.50 | -79.00 | -62 | OFF |
| | | | 6590 | -81.00 | -0.50 | -80.50 | -62 | Minimum |
| | | | 6590 | -83.50 | -0.50 | -83.00 | -62 | ON |
| | | | 6665 | -72.50 | -0.50 | -72.00 | -62 | OFF |
| | | | 6665 | -77.00 | -0.50 | -76.50 | -62 | Minimum |
| | | | 6665 | -82.00 | -0.50 | -81.50 | -62 | ON |
| | | | 6740 | -78.00 | -0.50 | -77.50 | -62 | OFF |
| | | | 6740 | -80.50 | -0.50 | -80.00 | -62 | Minimum |
| | | | 6740 | -82.50 | -0.50 | -82.00 | -62 | ON |
| | 8 | 6985 | 6910 | -73.00 | -0.50 | -72.50 | -62 | OFF |
| | | | 6910 | -75.50 | -0.50 | -75.00 | -62 | Minimum |
| | | | 6910 | -78.50 | -0.50 | -78.00 | -62 | ON |
| | | | 6985 | -69.50 | -0.50 | -69.00 | -62 | OFF |
| | | | 6985 | -77.00 | -0.50 | -76.50 | -62 | Minimum |
| | | | 6985 | -79.50 | -0.50 | -79.00 | -62 | ON |
| | | | 7060 | -79.50 | -0.50 | -79.00 | -62 | OFF |
| | | | 7060 | -82.00 | -0.50 | -81.50 | -62 | Minimum |
| | | | 7060 | -84.00 | -0.50 | -83.50 | -62 | ON |

Note 1: the listed Min. gain of EUT was included path loss.
Note 2: Detected level (Adjusted Power) = Injected AWGN Power (dBm) – (Antenna Gain (dBi) + Path loss (dB)) *Note1.
Note 3: The AWGN level is reported for the following conditions:
- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds.
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently.
- ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Note 4: The EUT don't support channel puncturing or BW reduction mechanism.
Note 5: Per FCC TCB workshop April 2022, The Injected AWGN power is actual power of AWGN injected into the antenna port.



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- Summary table

| Mode | U-NII Band | Centre Frequency (MHz) | Incumbent Frequency (MHz) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Possibility (%) | Limit (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax-HE20 | 5 | 6135 | 6135 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | 6 | 6455 | 6455 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | 7 | 6695 | 6695 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | 8 | 7015 | 7015 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| 802.11ax-HE160 | 5 | 6185 | 6110 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6185 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6260 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | 6-7 | 6505 | 6430 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6505 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6580 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | 7 | 6665 | 6590 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6665 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6740 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | 8 | 6985 | 6910 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 6985 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |
| | | | 7060 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 90 |

Note: CBP Detection Trials (1= Detection, 0= No Detection)



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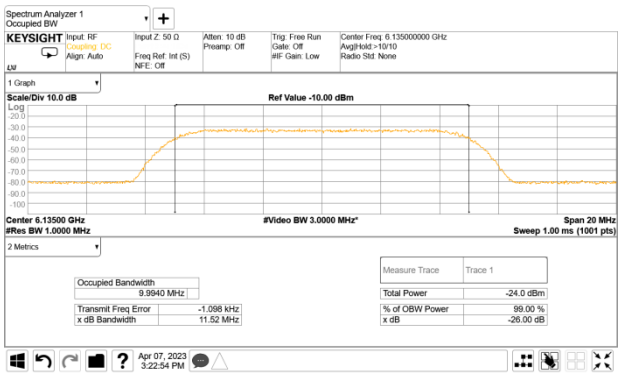
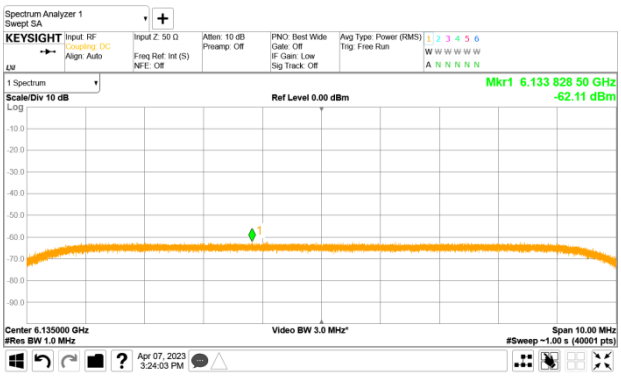
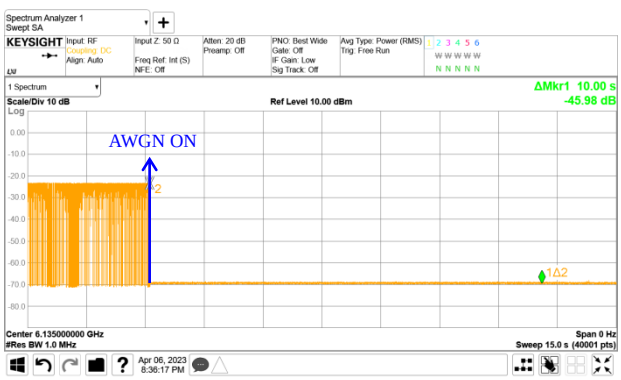
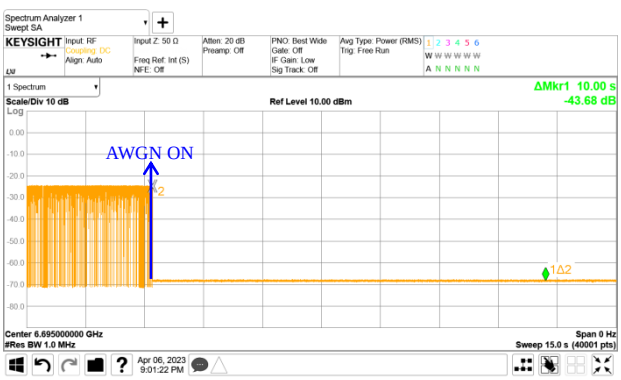
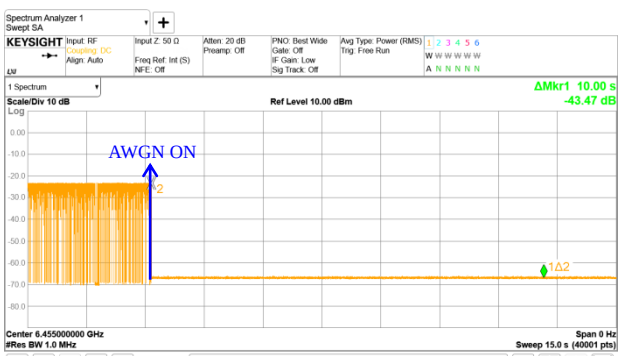
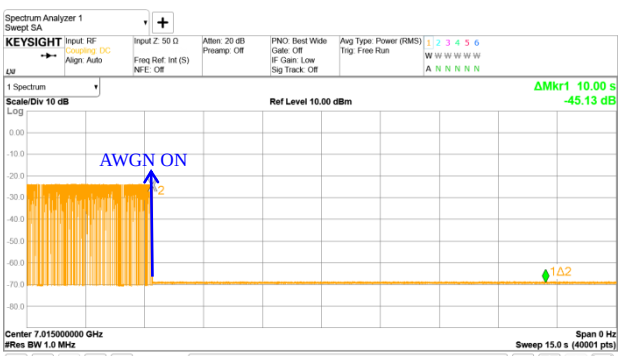
## A.8.2 Measurement Plots

| Incumbent Signal (AWGN) Bandwidth | Incumbent Signal (AWGN) Threshold Level |
|---|---|
|  |  |

| 802.11ax-HE20 | |
|---|---|
| Incumbent Frequency | |
| 6135MHz | 6695MHz |
|  |  |
| 6455MHz | 7015MHz |
|  |  |



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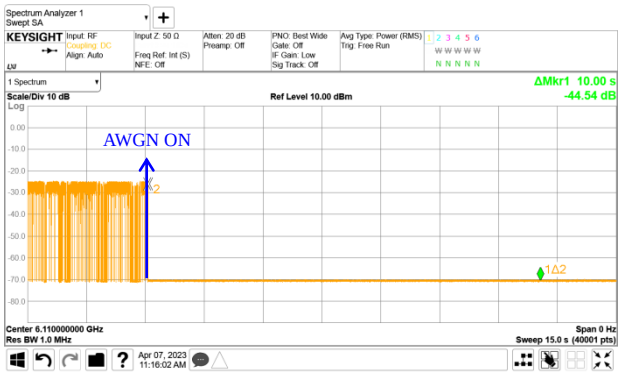
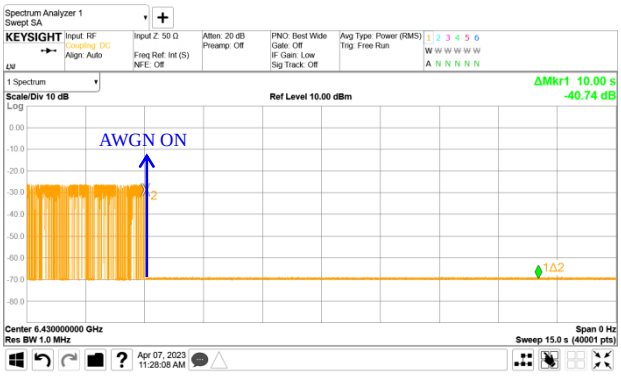
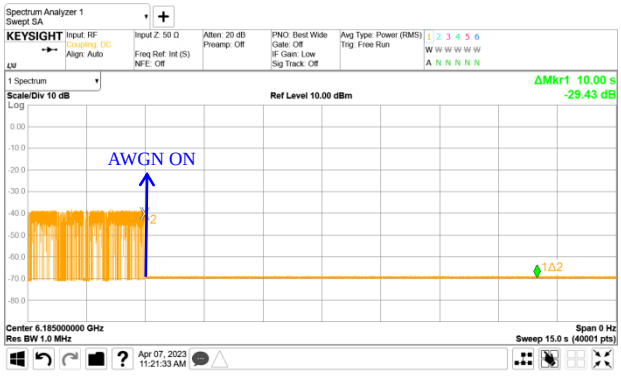
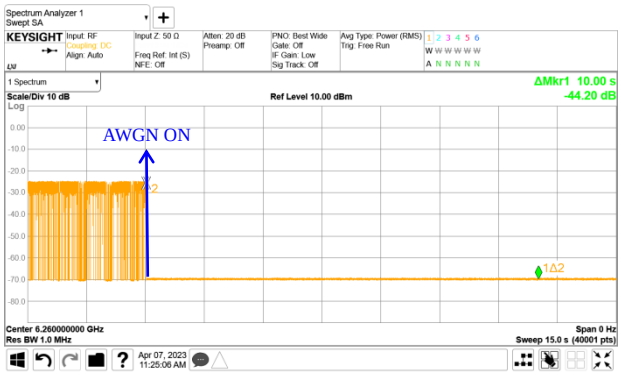
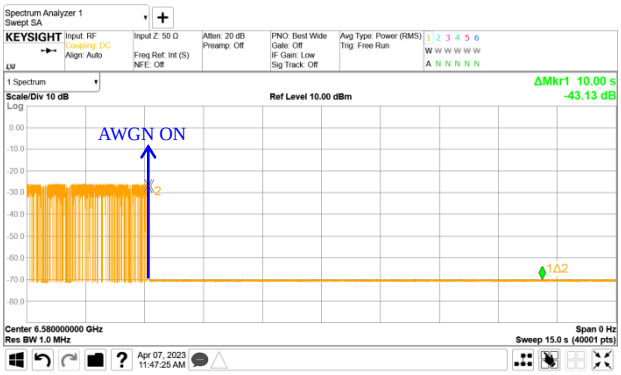
| 802.11ax-HE160 | |
|---|---|
| Centre Frequency: 6185MHz | Centre Frequency: 6505MHz |
| Incumbent Frequency | Incumbent Frequency |
| 6110MHz | 6430MHz |
|   |   |
| 6185MHz | 6505MHz |
|   | |
| 6260MHz | 6580MHz |
|   |   |



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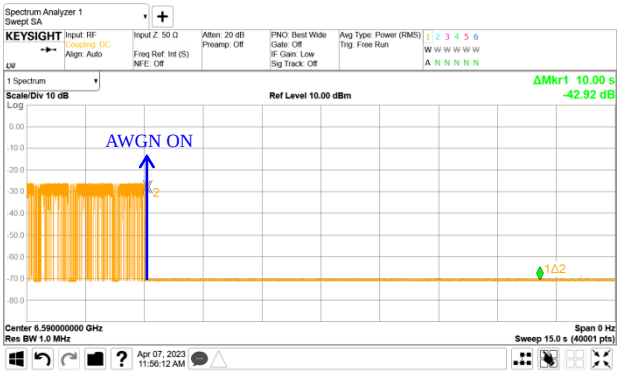
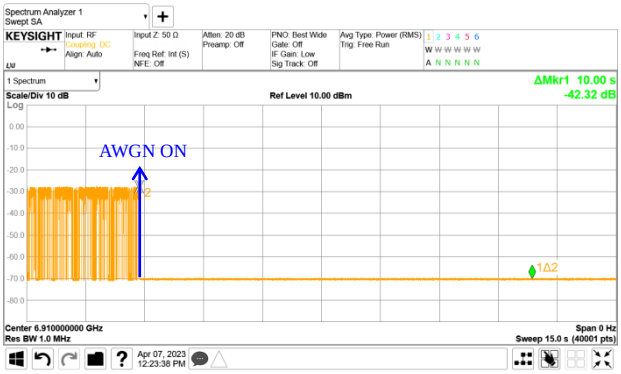
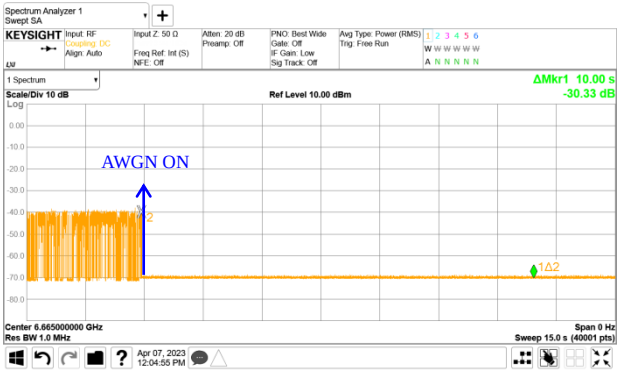
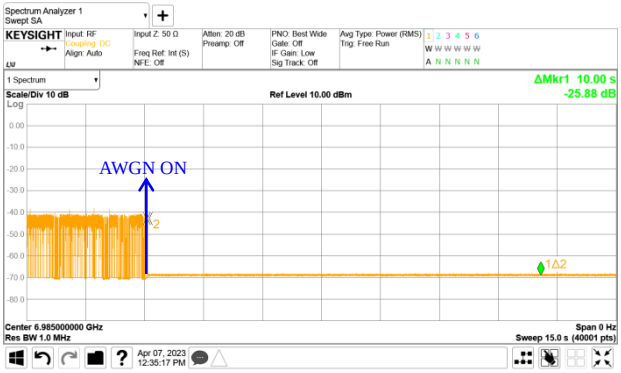
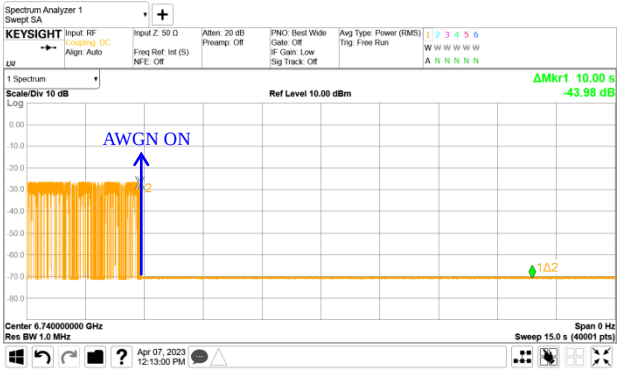
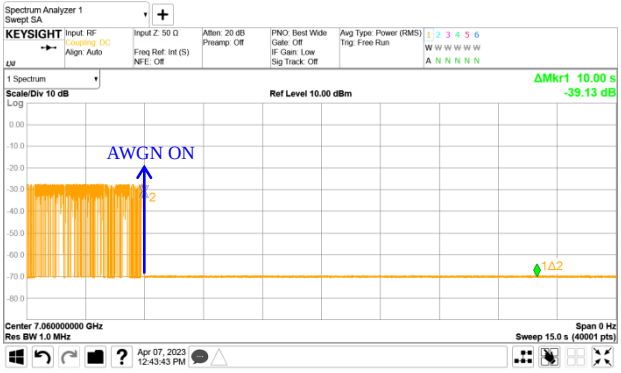
| 802.11ax-HE160 | |
|---|---|
| Centre Frequency: 6665MHz | Centre Frequency: 6985MHz |
| Incumbent Frequency | Incumbent Frequency |
| 6590MHz | 6910MHz |
|   |   |
| 6665MHz | 6985MHz |
|   |   |
| 6740MHz | 7060MHz |
|   |   |



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