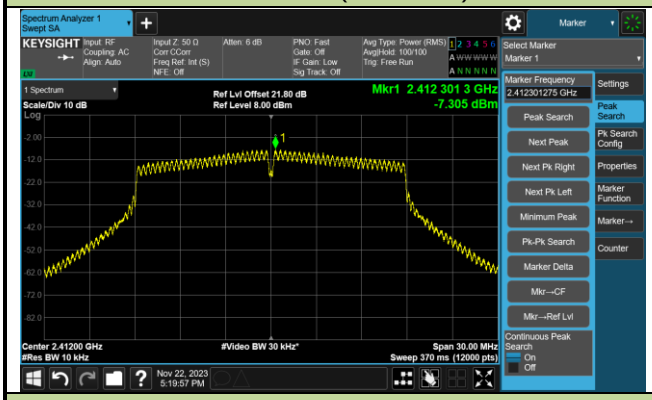
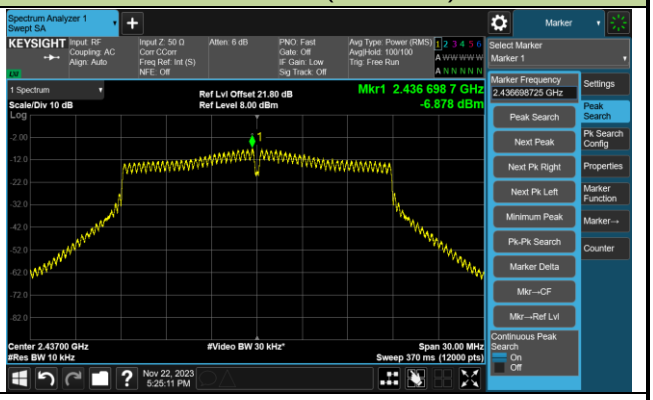
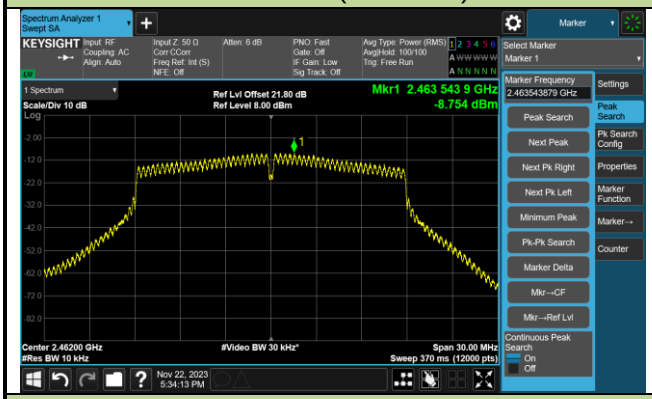
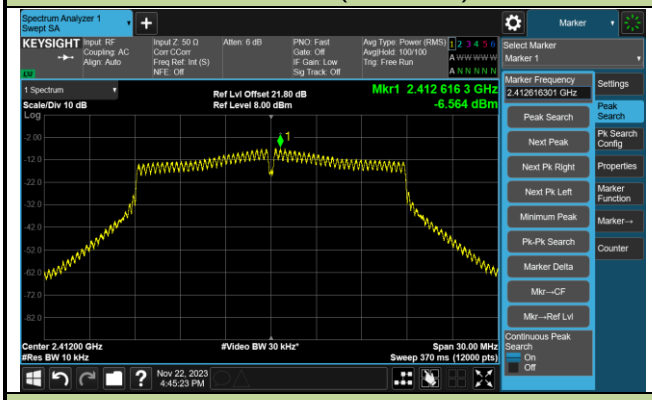
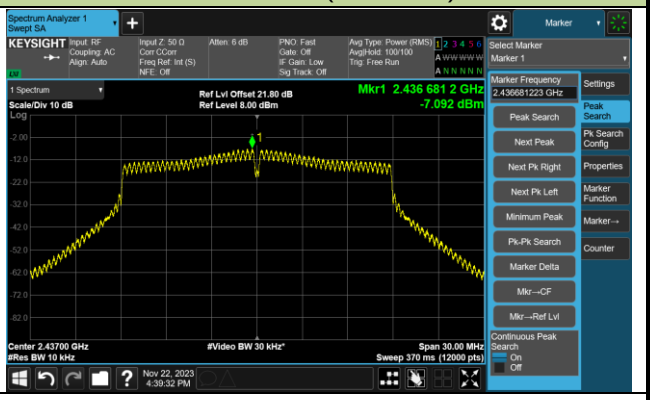
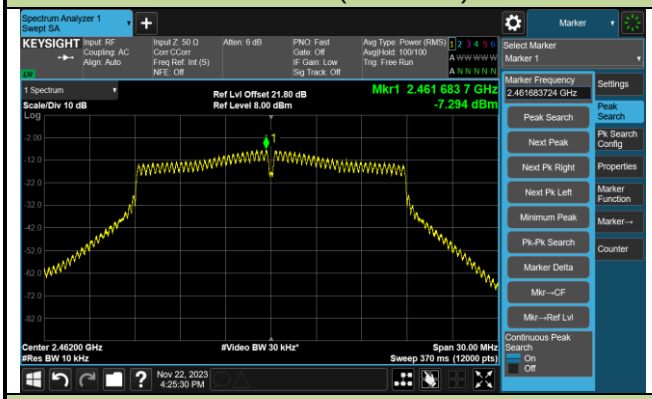
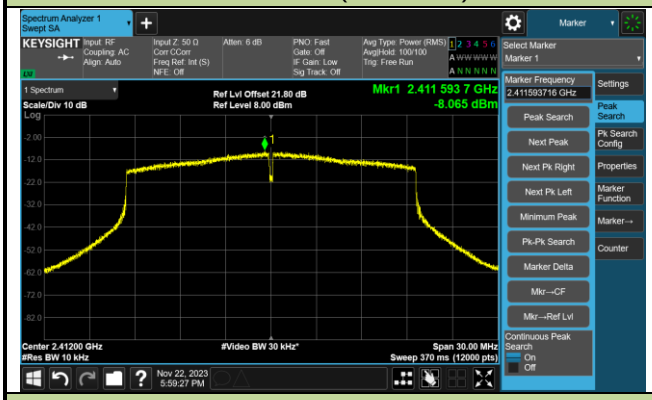
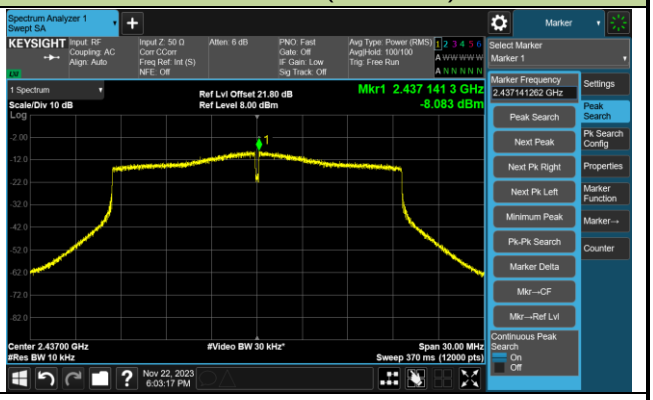
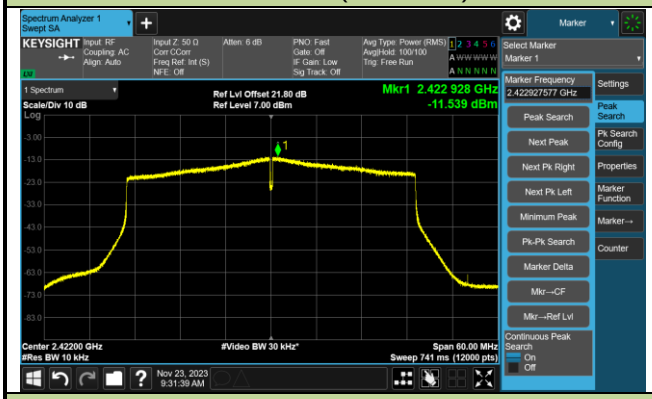
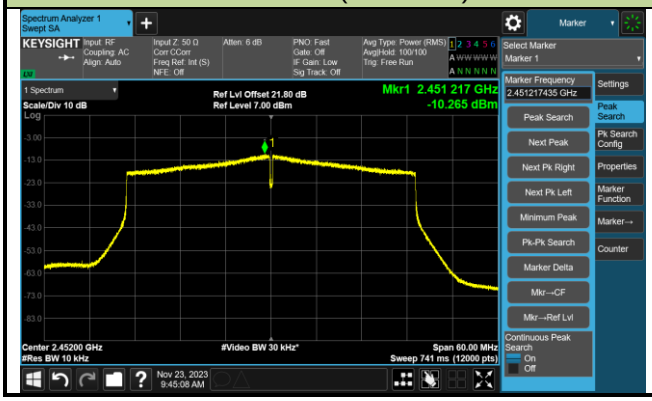
| 802.11n-HT20 - AVGPSD - Ant 1 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| 802.11n-HT40 - AVGPSD - Ant 1 | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| VHT20 - AVGPSD - Ant 1 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |

| VHT40 - AVGPSD - Ant 1 | |
|---|---|
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| 802.11ax-HE20 - AVGPSD - Ant 1 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| 802.11ax-HE40 - AVGPSD - Ant 1 | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| Test Site | SIP-TR1 | Test Engineer | Ryan Wang |
|---|---|---|---|
| Test Date | 2023-09-13 ~ 2023-10-26 | | |
| Test Model No. | L23UGSR-5HaxD2HaxD-US | | |

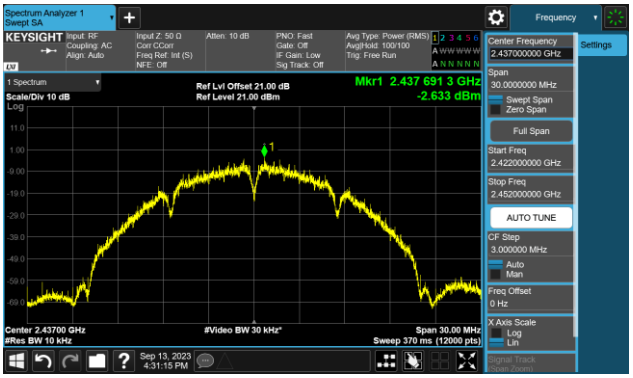
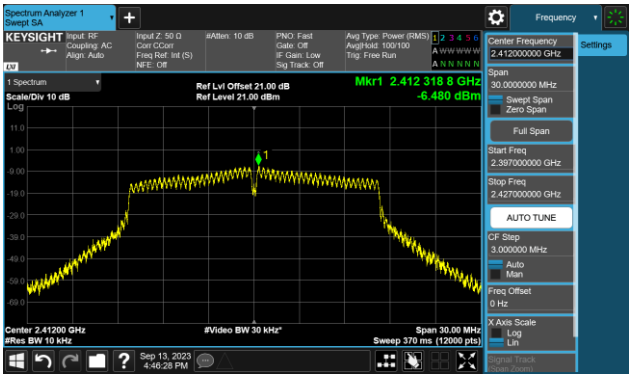
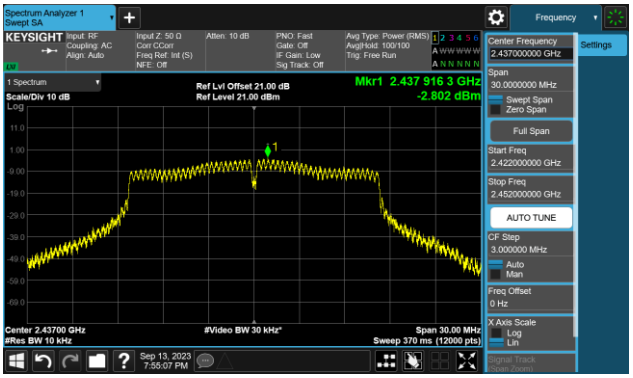
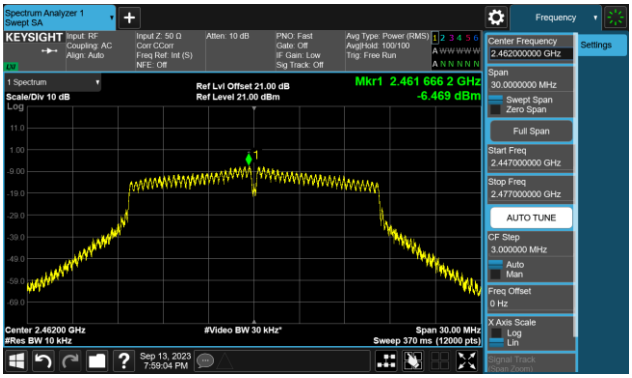
| Test Mode | Data Rate/ MCS | Channel No. | Freq. (MHz) | PSD (dBm/ 10kHz) | | Duty Cycle (%) | 10*log (1/x) | Total PSD (dBm/10kHz) | Limit (dBm/3kHz) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Ant 0 | Ant 1 | | | | |
| 11b | 1Mbps | 01 | 2412 | -5.73 | -6.75 | 97.58 | 0.11 | -3.09 | ≤ 7.69 |
| 11b | 1Mbps | 06 | 2437 | -2.63 | -3.68 | 97.58 | 0.11 | -0.01 | ≤ 7.69 |
| 11b | 1Mbps | 11 | 2462 | -6.78 | -7.45 | 97.58 | 0.11 | -3.98 | ≤ 7.69 |
| 11g | 6Mbps | 01 | 2412 | -6.48 | -6.65 | 98.91 | 0.05 | -3.55 | ≤ 7.69 |
| 11g | 6Mbps | 06 | 2437 | -2.80 | -2.88 | 98.91 | 0.05 | 0.17 | ≤ 7.69 |
| 11g | 6Mbps | 11 | 2462 | -6.47 | -6.74 | 98.91 | 0.05 | -3.59 | ≤ 7.69 |
| 11n-HT20 | MCS0 | 01 | 2412 | -6.26 | -6.62 | 99.60 | 0.02 | -3.42 | ≤ 7.69 |
| 11n-HT20 | MCS0 | 06 | 2437 | -2.15 | -2.58 | 99.60 | 0.02 | 0.65 | ≤ 7.69 |
| 11n-HT20 | MCS0 | 11 | 2462 | -6.59 | -7.16 | 99.60 | 0.02 | -3.85 | ≤ 7.69 |
| 11n-HT40 | MCS0 | 03 | 2422 | -8.08 | -8.31 | 98.79 | 0.05 | -5.18 | ≤ 7.69 |
| 11n-HT40 | MCS0 | 06 | 2437 | -4.84 | -4.99 | 98.79 | 0.05 | -1.90 | ≤ 7.69 |
| 11n-HT40 | MCS0 | 09 | 2452 | -9.37 | -9.69 | 98.79 | 0.05 | -6.51 | ≤ 7.69 |
| VHT20 | MCS0 | 01 | 2412 | -5.32 | -5.36 | 99.45 | 0.02 | -2.33 | ≤ 7.69 |
| VHT20 | MCS0 | 06 | 2437 | -2.28 | -2.13 | 99.45 | 0.02 | 0.81 | ≤ 7.69 |
| VHT20 | MCS0 | 11 | 2462 | -6.62 | -5.99 | 99.45 | 0.02 | -3.29 | ≤ 7.69 |
| VHT40 | MCS0 | 03 | 2422 | -6.95 | -7.45 | 98.92 | 0.05 | -4.18 | ≤ 7.69 |
| VHT40 | MCS0 | 06 | 2437 | -4.63 | -4.84 | 98.92 | 0.05 | -1.72 | ≤ 7.69 |
| VHT40 | MCS0 | 09 | 2452 | -9.58 | -9.15 | 98.92 | 0.05 | -6.35 | ≤ 7.69 |
| 11ax-HE20 | MCS0 | 01 | 2412 | -7.76 | -7.80 | 99.47 | 0.02 | -4.77 | ≤ 7.69 |
| 11ax-HE20 | MCS0 | 06 | 2437 | -4.05 | -3.79 | 99.47 | 0.02 | -0.91 | ≤ 7.69 |
| 11ax-HE20 | MCS0 | 11 | 2462 | -9.19 | -8.80 | 99.47 | 0.02 | -5.98 | ≤ 7.69 |
| 11ax-HE40 | MCS0 | 03 | 2422 | -9.81 | -10.03 | 98.79 | 0.05 | -6.90 | ≤ 7.69 |
| 11ax-HE40 | MCS0 | 06 | 2437 | -6.81 | -6.75 | 98.79 | 0.05 | -3.77 | ≤ 7.69 |
| 11ax-HE40 | MCS0 | 09 | 2452 | -10.89 | -11.27 | 98.79 | 0.05 | -8.07 | ≤ 7.69 |

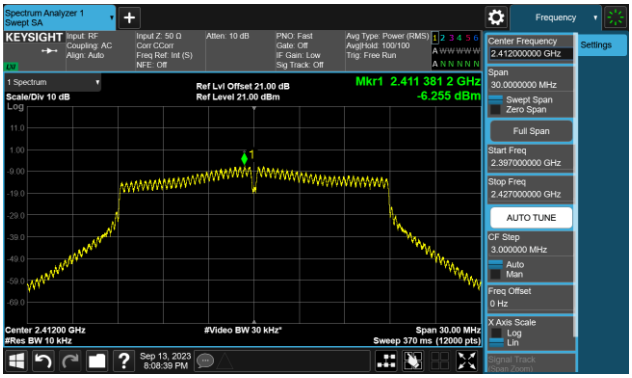
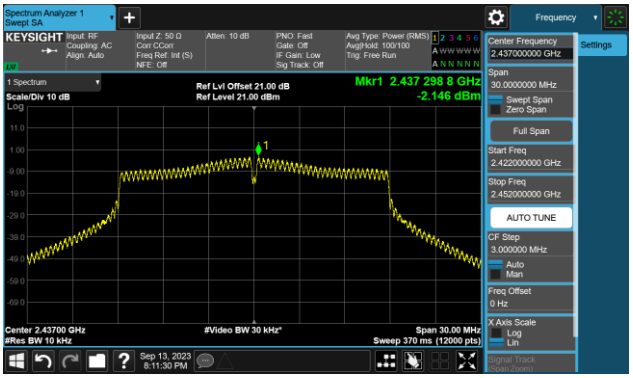
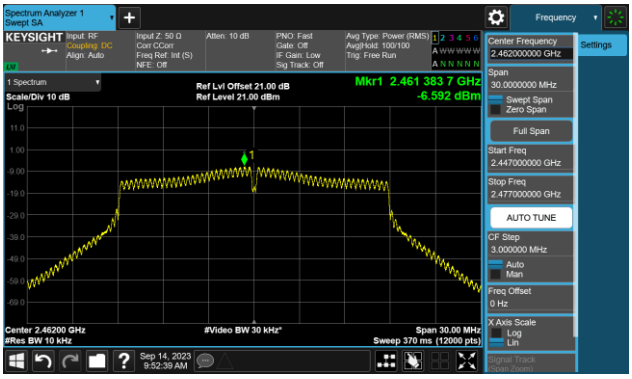
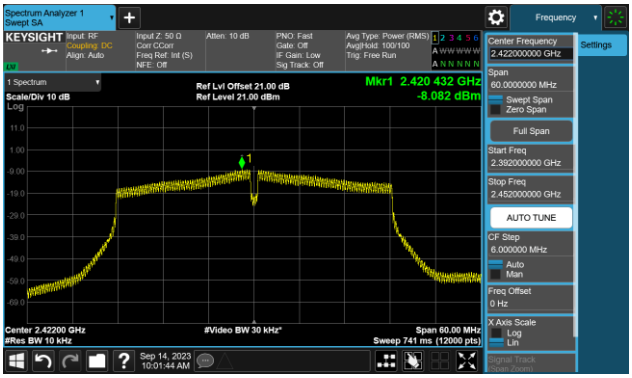
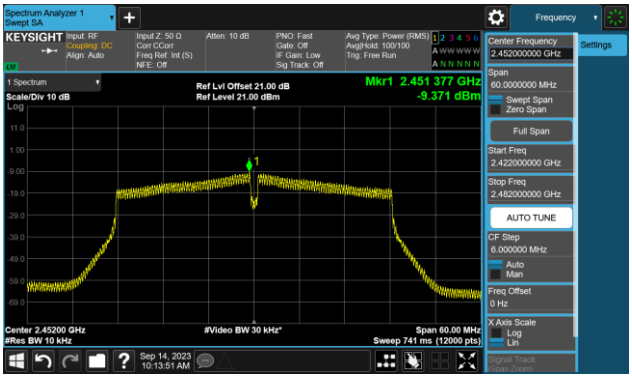
Note 1:

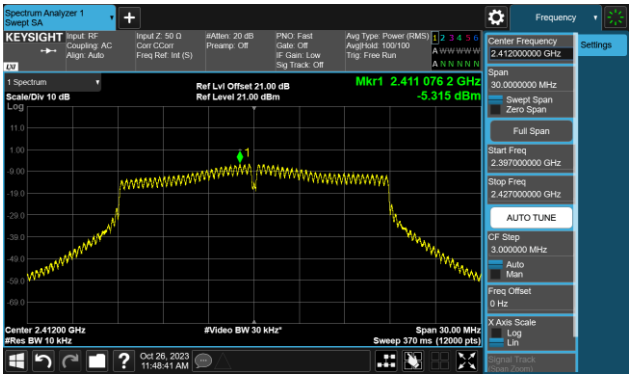
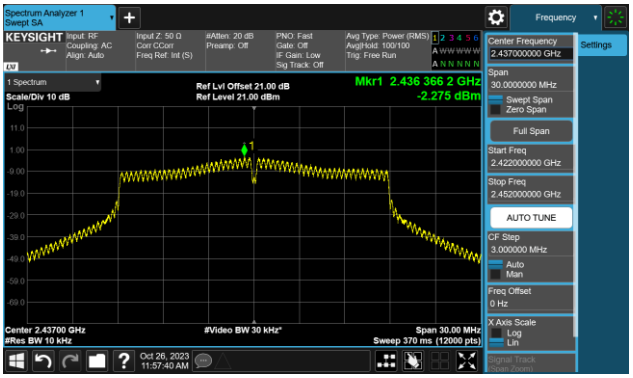
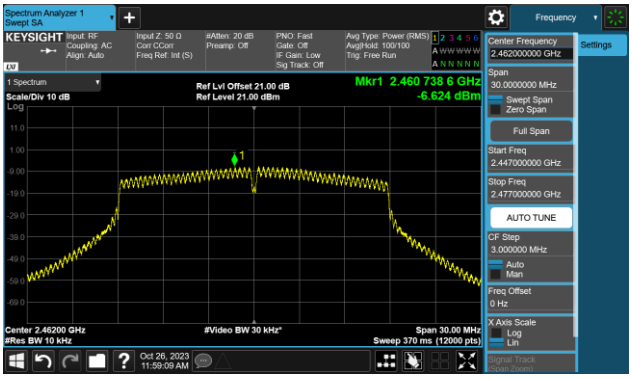
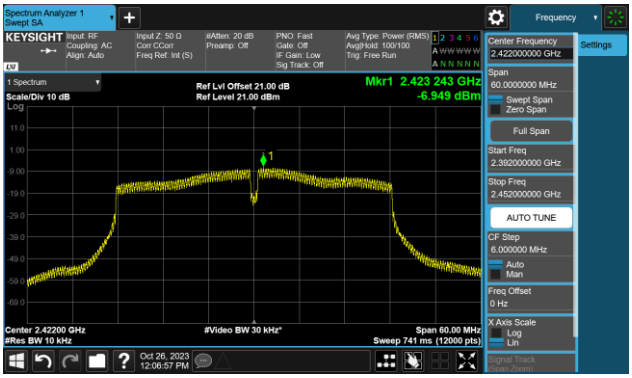
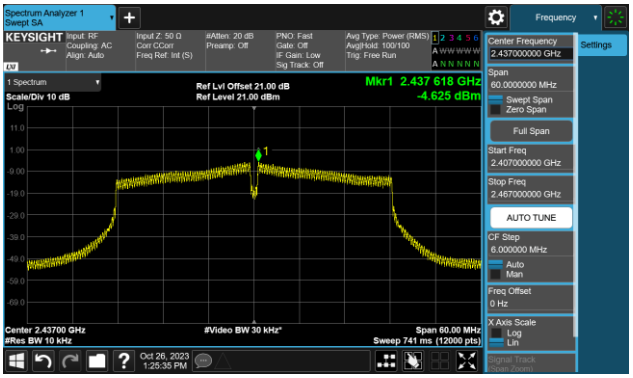
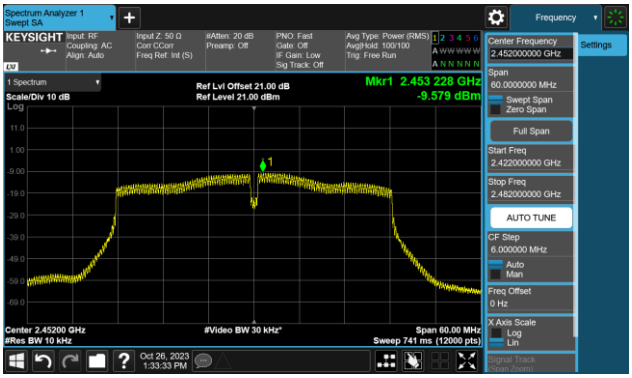
When EUT duty cycle ≥ 98%, Total PSD (dBm / 10kHz) = 10*log $\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm / 10kHz).

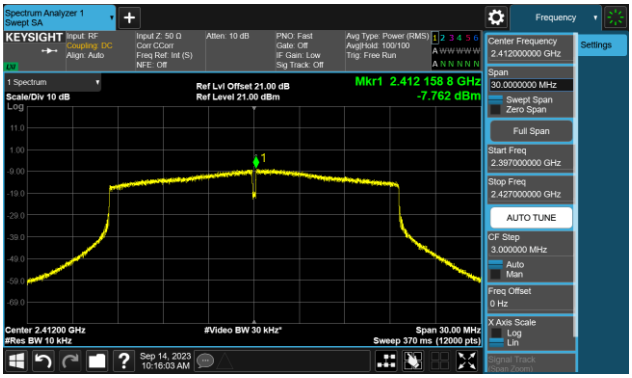
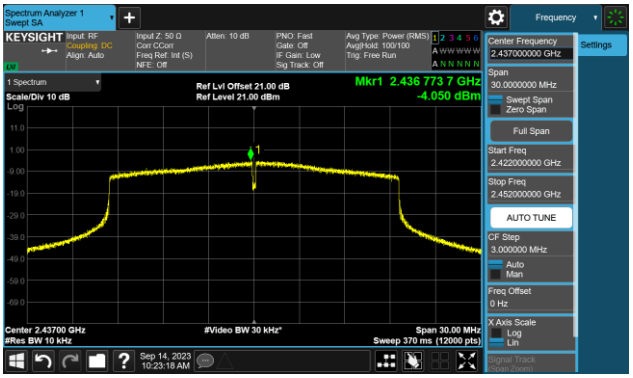
When EUT duty cycle < 98%, Total PSD (dBm / 10kHz) = 10*log $\{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm / 10kHz) + 10*log (1/Duty Cycle).

Note 2: Limit (dBm/3kHz) = 8 – (6.31-6) = 7.69 dBm/3kHz.

| 802.11b - AVGPSD - Ant 0 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| 802.11g - AVGPSD - Ant 0 | |
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |

| 802.11n-HT20 - AVGPSD - Ant 0 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| 802.11n-HT40 - AVGPSD - Ant 0 | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| VHT20 - AVGPSD - Ant 0 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| **VHT40 - AVGPSD - Ant 0** | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| 802.11ax-HE20 - AVGPSD - Ant 0 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
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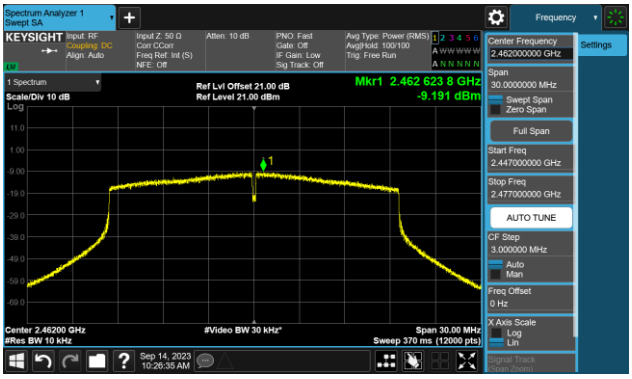
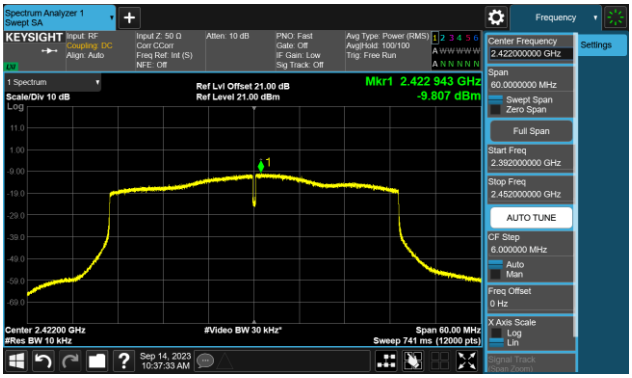
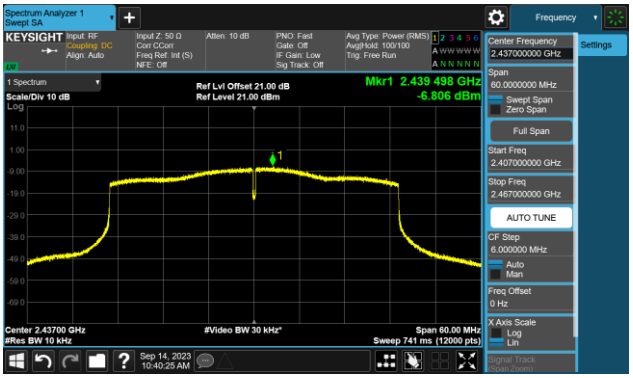
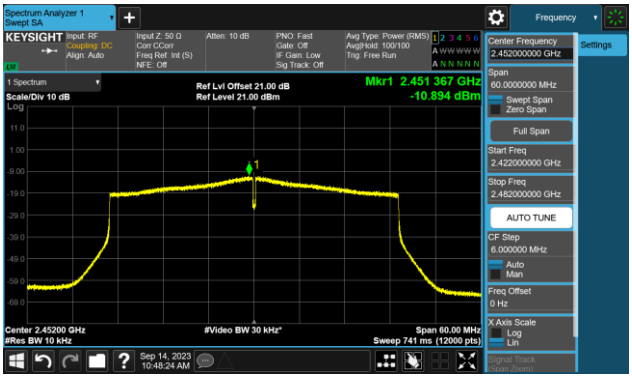
|  | |
| 802.11 ax-HE40 - AVGPSD - Ant 0 | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| 802.11b - AVGPSD - Ant 1 | |
|---|---|
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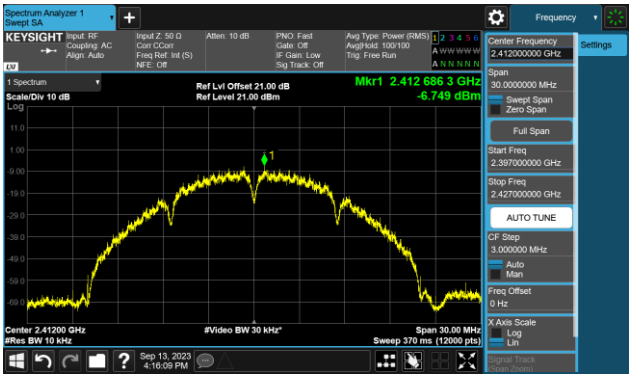
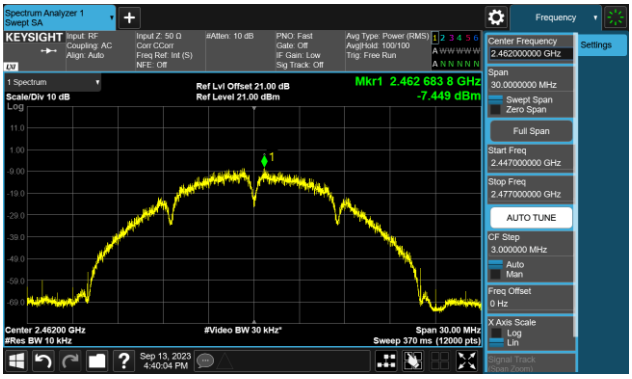
|  |  |
| Channel 11 (2462MHz) | |
|  | |

| 802.11g - AVGPSD - Ant 1 | |
|---|---|
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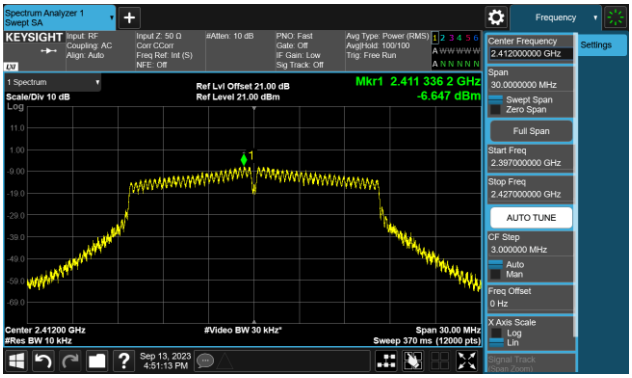
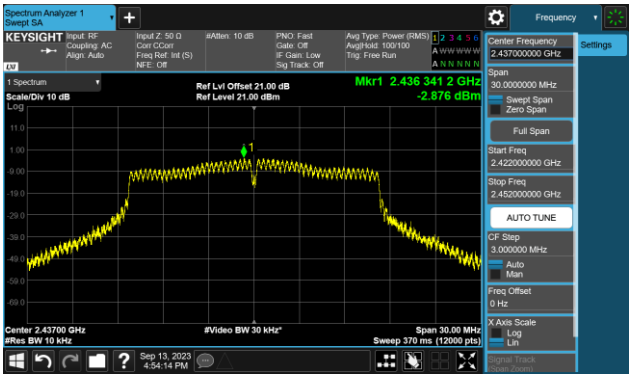
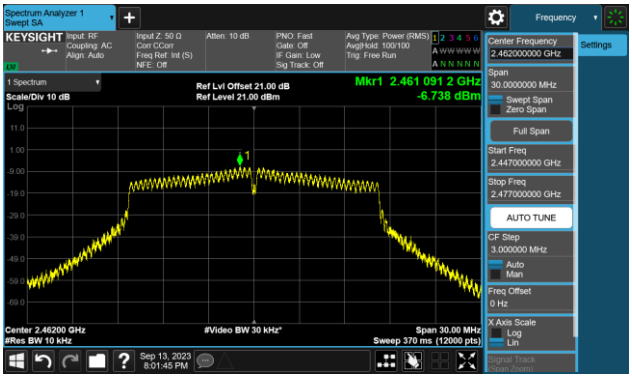
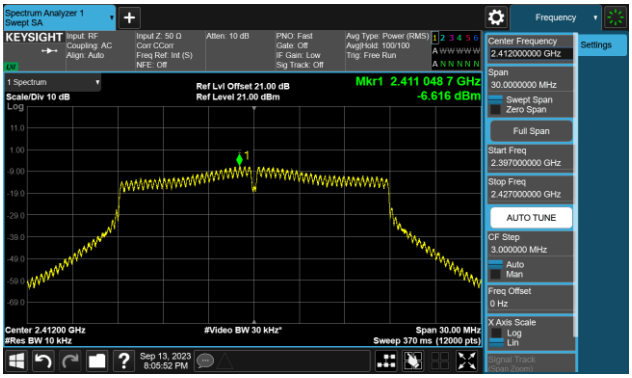
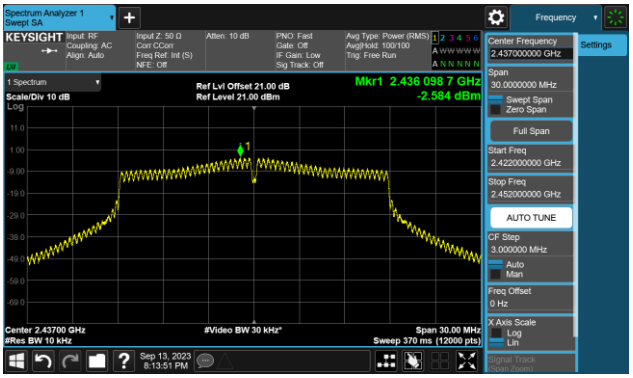
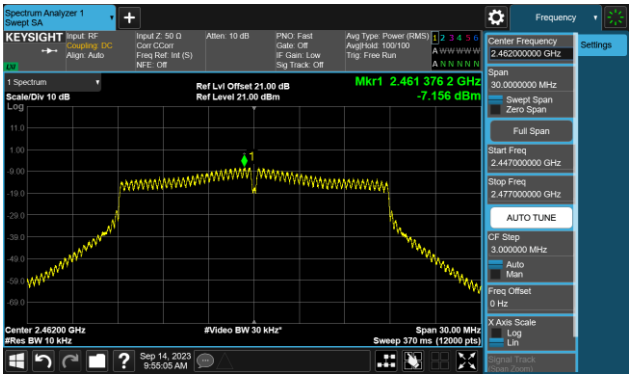
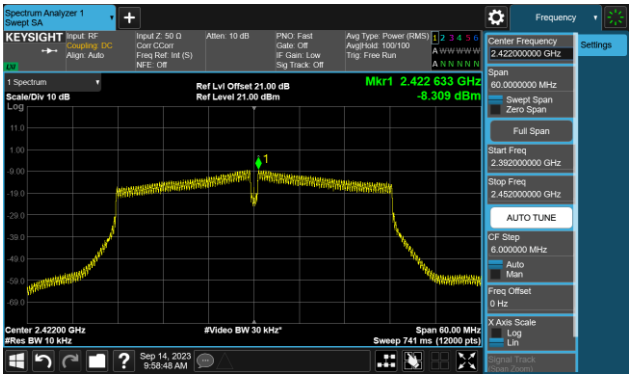
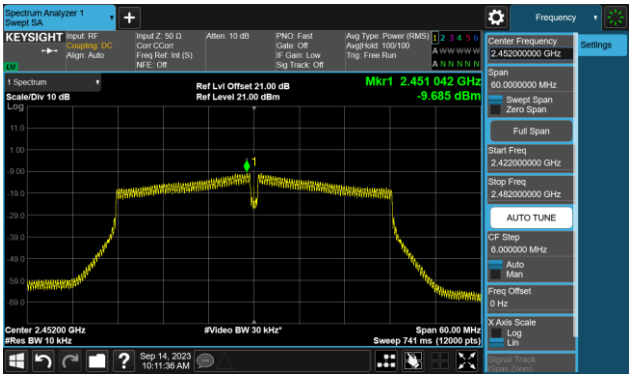
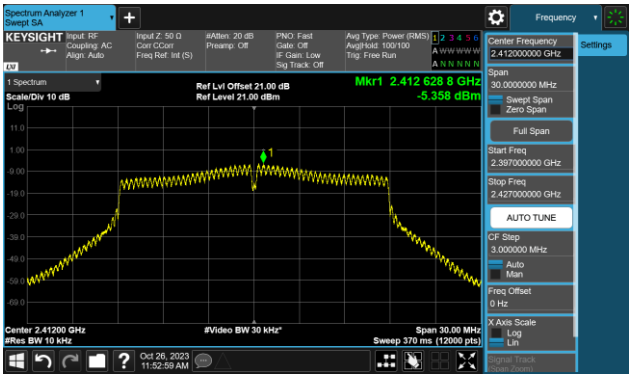
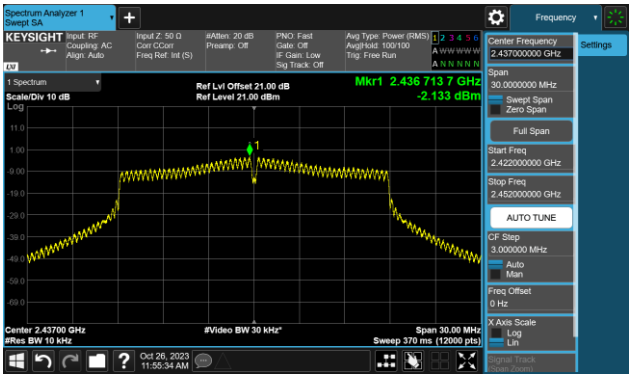
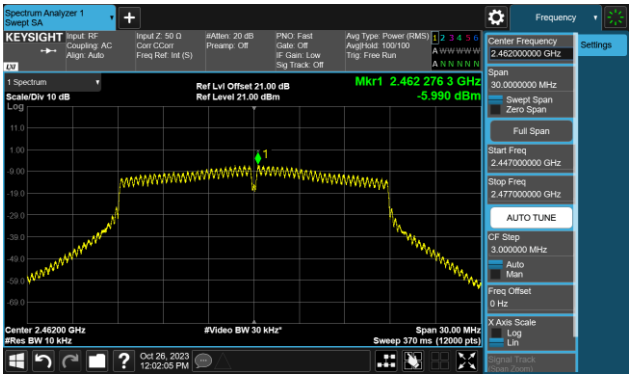
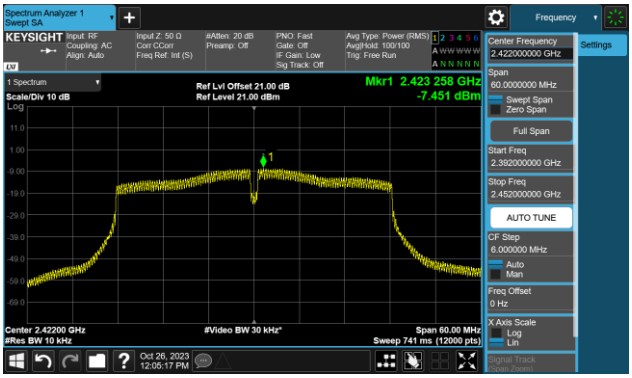
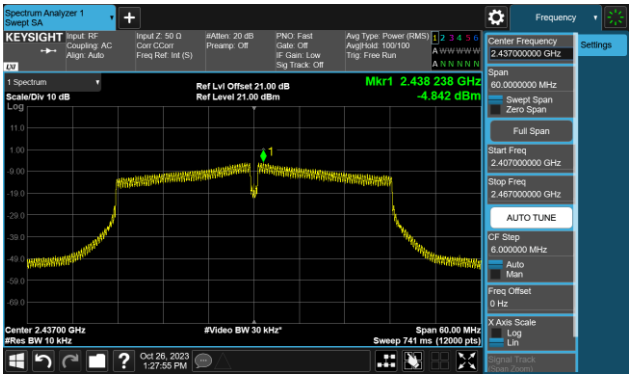
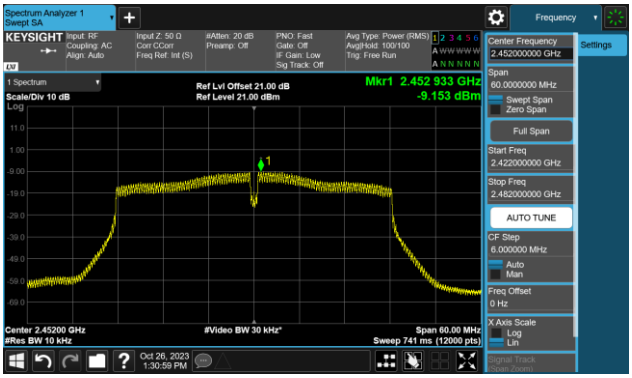
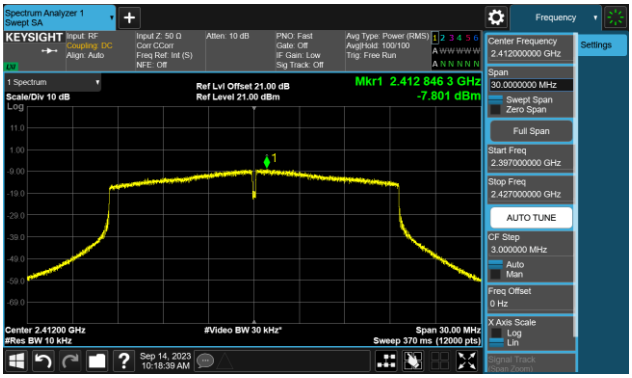
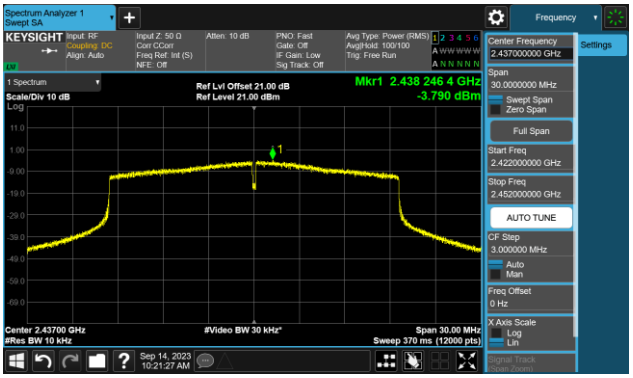
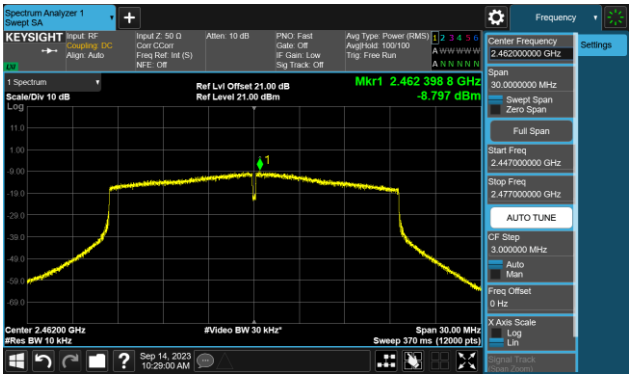
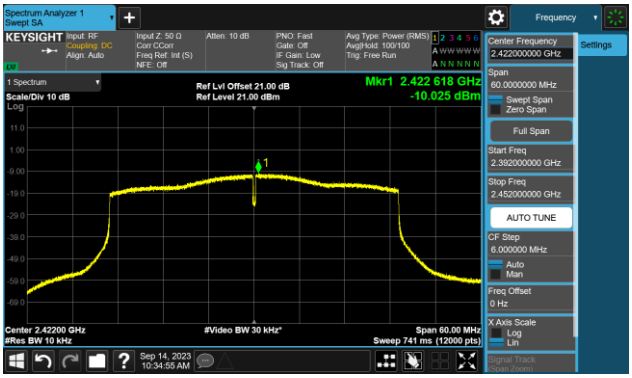
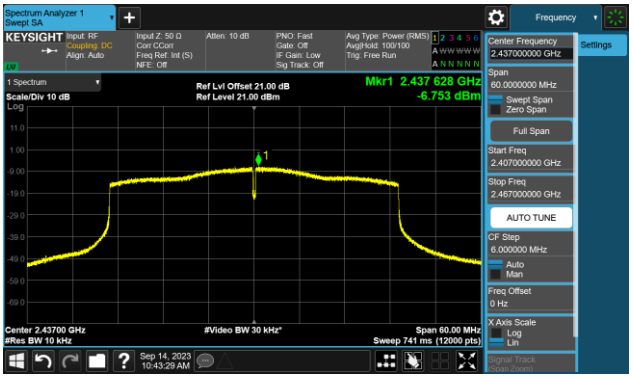
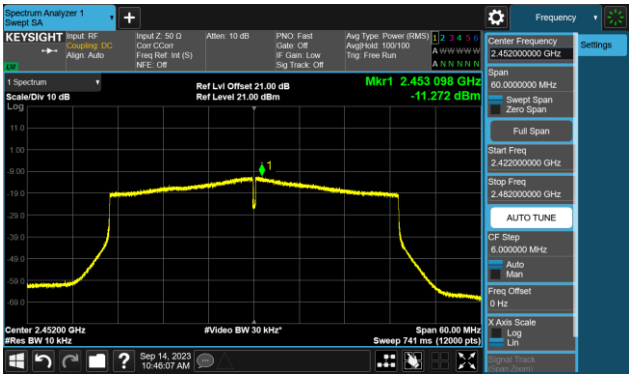
|  |  |
| Channel 11 (2462MHz) | |
|  | |

| 802.11n-HT20 - AVGPSD - Ant 1 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| 802.11n-HT40 - AVGPSD - Ant 1 | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

| VHT20 - AVGPSD - Ant 1 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |
| **VHT40 - AVGPSD - Ant 1** | |
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

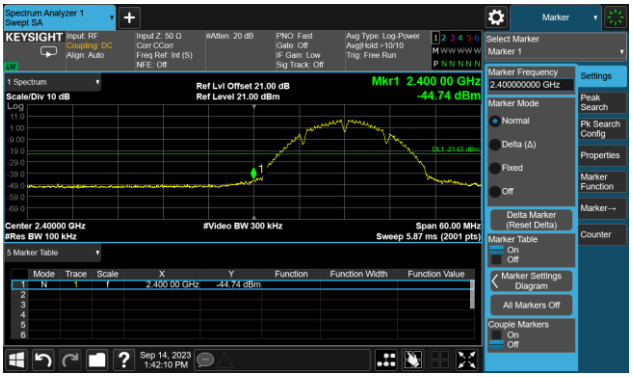
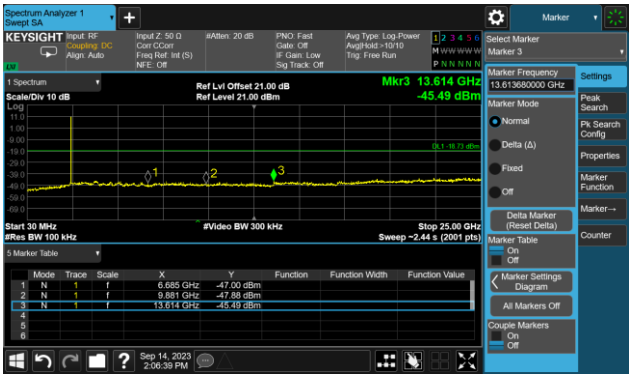
| 802.11ax-HE20 - AVGPSD - Ant 1 | |
|---|---|
| Channel 01 (2412MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 11 (2462MHz) | |
|  | |

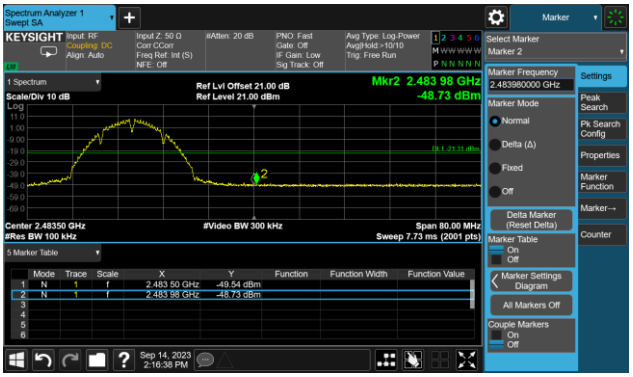
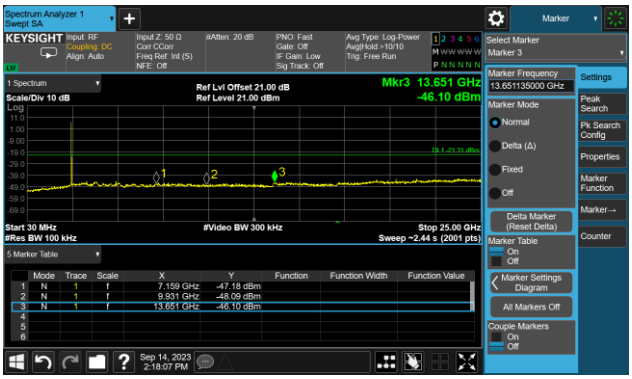
| 802.11ax-HE40 - AVGPSD - Ant 1 | |
|---|---|
| Channel 03 (2422MHz) | Channel 06 (2437MHz) |
|  |  |
| Channel 09 (2452MHz) | |
|  | |

## A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

| Test Site | SIP-TR1 | Test Engineer | Ryan Wang |
|---|---|---|---|
| Test Date | 2023-09-14 ~ 2023-10-26 | | |

| Test Mode | Data Rate / MCS | Channel No. | Frequency (MHz) | Limit |
|---|---|---|---|---|
| 11b | 1Mbps | 01 | 2412 | 30dBc |
| 11b | 1Mbps | 06 | 2437 | 30dBc |
| 11b | 1Mbps | 11 | 2462 | 30dBc |
| 11g | 6Mbps | 01 | 2412 | 30dBc |
| 11g | 6Mbps | 06 | 2437 | 30dBc |
| 11g | 6Mbps | 11 | 2462 | 30dBc |
| 11n-HT20 | MCS0 | 01 | 2412 | 30dBc |
| 11n-HT20 | MCS0 | 06 | 2437 | 30dBc |
| 11n-HT20 | MCS0 | 11 | 2462 | 30dBc |
| 11n-HT40 | MCS0 | 03 | 2422 | 30dBc |
| 11n-HT40 | MCS0 | 06 | 2437 | 30dBc |
| 11n-HT40 | MCS0 | 09 | 2452 | 30dBc |
| VHT20 | MCS0 | 01 | 2412 | 30dBc |
| VHT20 | MCS0 | 06 | 2437 | 30dBc |
| VHT20 | MCS0 | 11 | 2462 | 30dBc |
| VHT40 | MCS0 | 03 | 2422 | 30dBc |
| VHT40 | MCS0 | 06 | 2437 | 30dBc |
| VHT40 | MCS0 | 09 | 2452 | 30dBc |
| 11ax-HE20 | MCS0 | 01 | 2412 | 30dBc |
| 11ax-HE20 | MCS0 | 06 | 2437 | 30dBc |
| 11ax-HE20 | MCS0 | 11 | 2462 | 30dBc |
| 11ax-HE40 | MCS0 | 03 | 2422 | 30dBc |
| 11ax-HE40 | MCS0 | 06 | 2437 | 30dBc |
| 11ax-HE40 | MCS0 | 09 | 2452 | 30dBc |

| 802.11b Out-of-Band Emissions – Ant 0 | |
|---|---|
| Channel 01 (2412MHz) | |
| Reference Level | Low Band Edge |
|  |  |
| Spurious Emission | |
|  | |
| Channel 06 (2437MHz) | |
| Reference Level | Spurious Emission |
|  |  |

| 802.11b Out-of-Band Emissions – Ant 0 | |
|---|---|
| Channel 11 (2462MHz) | |
| Reference Level | High Band Edge |
|  |  |
| Spurious Emission | |
|  | |