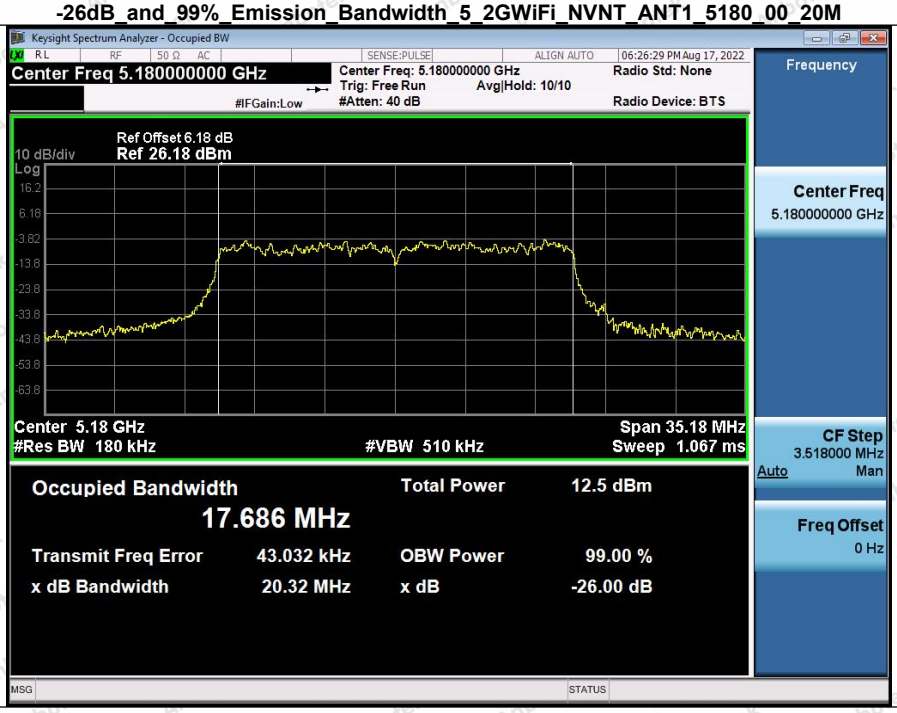
# Appendix Test Data

| | | | |
|---|---|---|---|
| Report No.: | 78340WC20002802 | Test Date: | 2022.8.17~9.23 |
| Test Engineer: | QingPeng | Auditor: | Andy wang |
| Temperature: | 24.3℃ | Relative Humidity: | 56.2% |
| Pressure: | 1012 hPa | | |

# 1. -26dB and 99% Emission Bandwidth

| Condition | Antenna | Modulation | Frequency(MHz) | -26dB_Emission_Bandwidth(MHz) | Occupied Bandwidth(MHz) |
|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5180.00 | 20.32 | 17.69 |
| NVNT | ANT1 | 802.11a | 5200.00 | 19.67 | 17.65 |
| NVNT | ANT1 | 802.11a | 5240.00 | 19.59 | 17.70 |
| NVNT | ANT1 | 802.11n(HT20) | 5180.00 | 19.63 | 17.66 |
| NVNT | ANT1 | 802.11n(HT20) | 5200.00 | 19.68 | 17.66 |
| NVNT | ANT1 | 802.11n(HT20) | 5240.00 | 20.03 | 17.67 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5180.00 | 19.70 | 17.66 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5200.00 | 20.29 | 17.65 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5240.00 | 19.63 | 17.67 |
| NVNT | ANT1 | 802.11n(HT40) | 5190.00 | 41.88 | 36.24 |
| NVNT | ANT1 | 802.11n(HT40) | 5230.00 | 41.66 | 36.34 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5190.00 | 41.14 | 36.26 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5230.00 | 42.42 | 36.29 |
| NVNT | ANT1 | 802.11ac(VHT80) | 5210.00 | 85.45 | 76.34 |

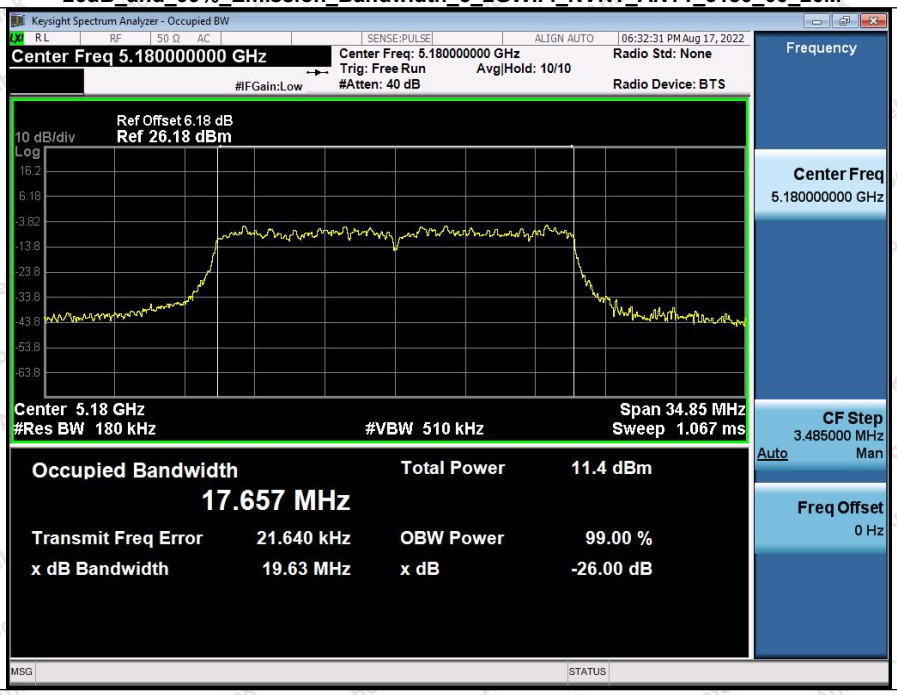
-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5180_00_20M



-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5200_00_20M

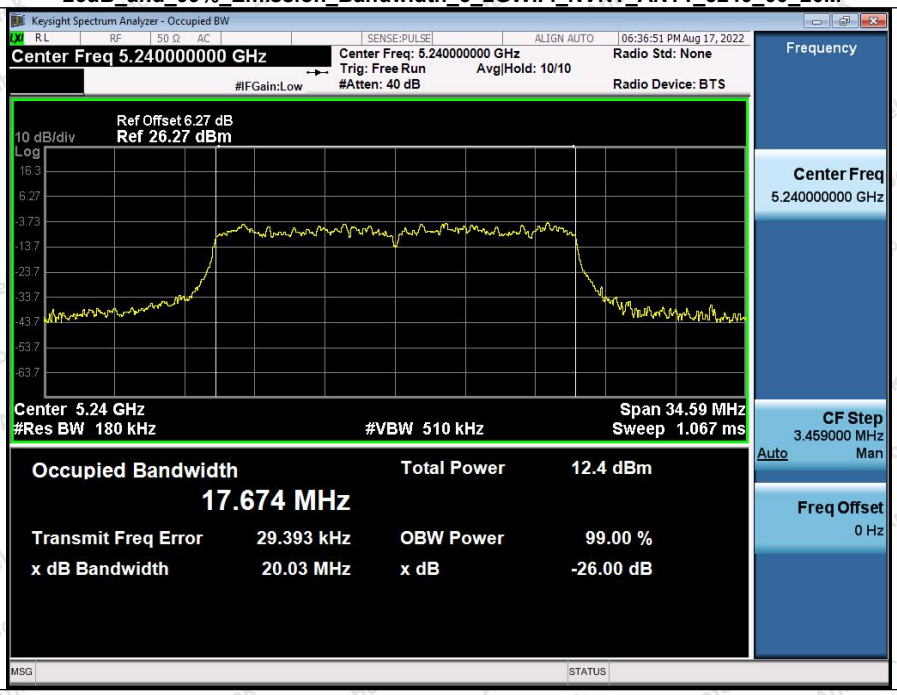
-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5240_00_20M

-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5180_00_20M

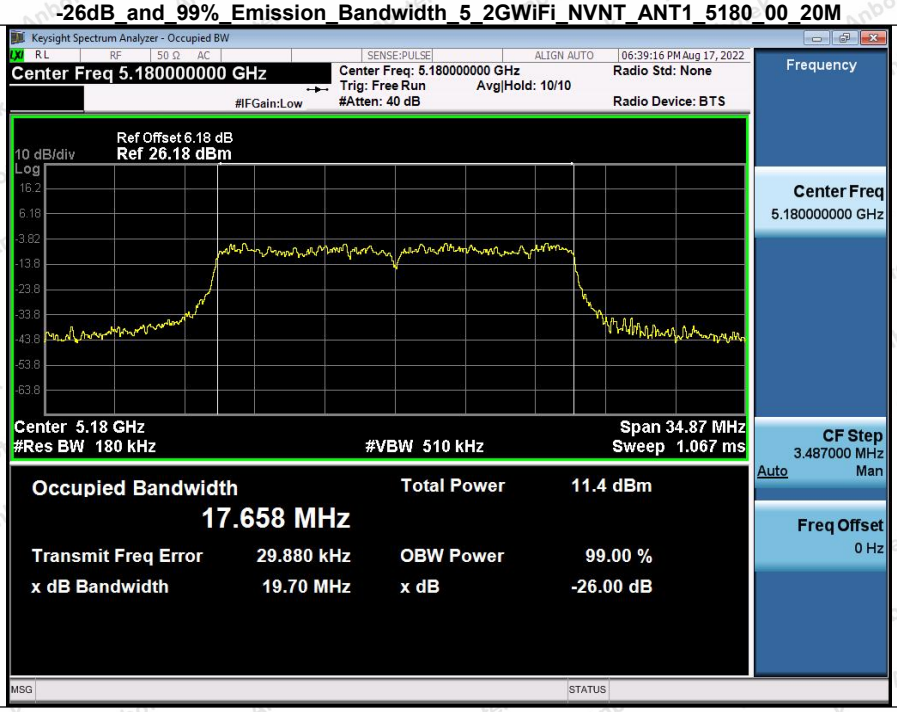



-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5200_00_20M

-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5240_00_20M




-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5180_00_20M



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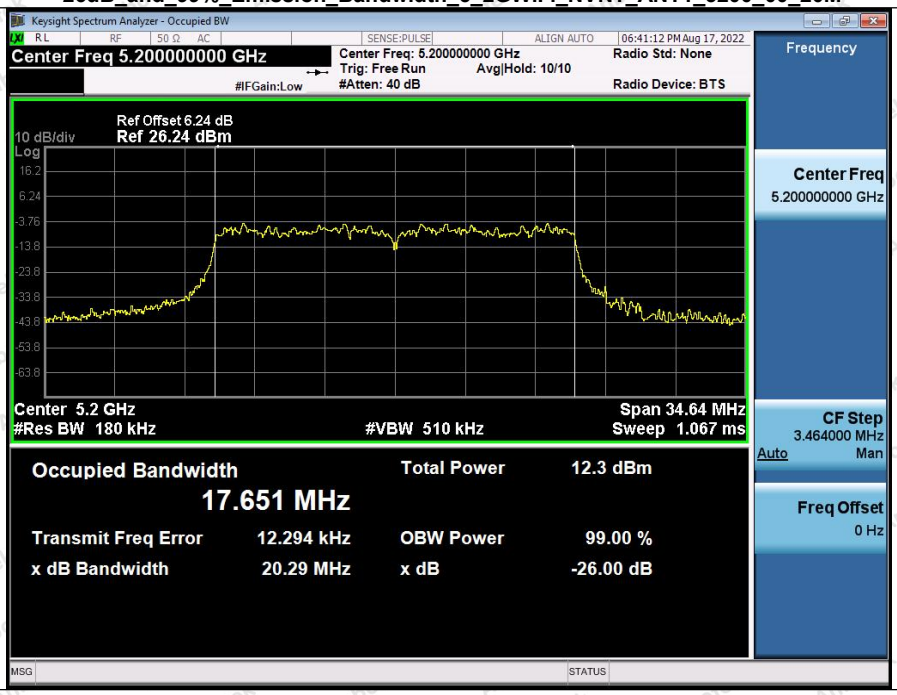
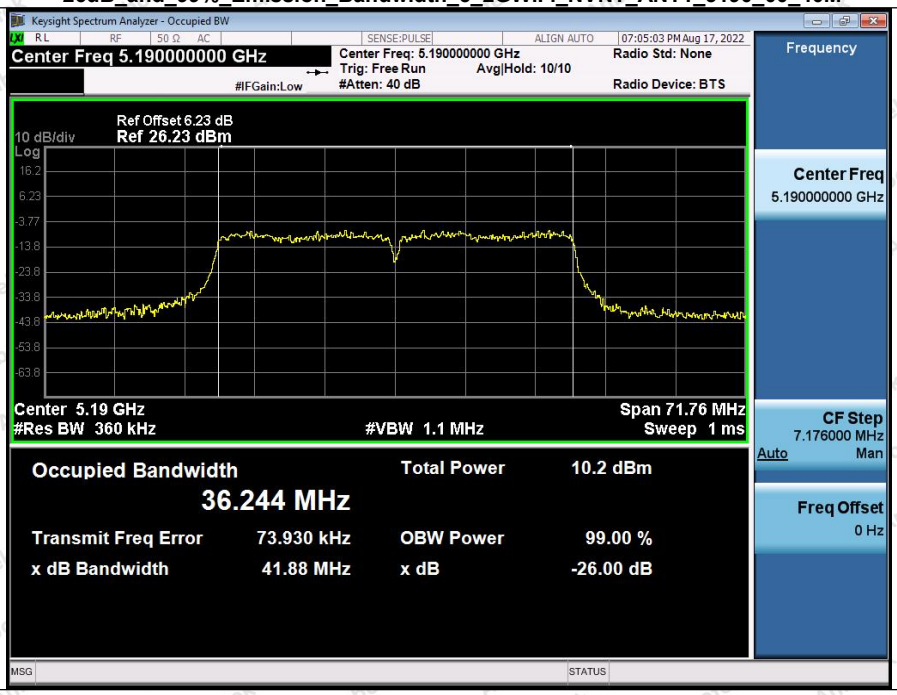
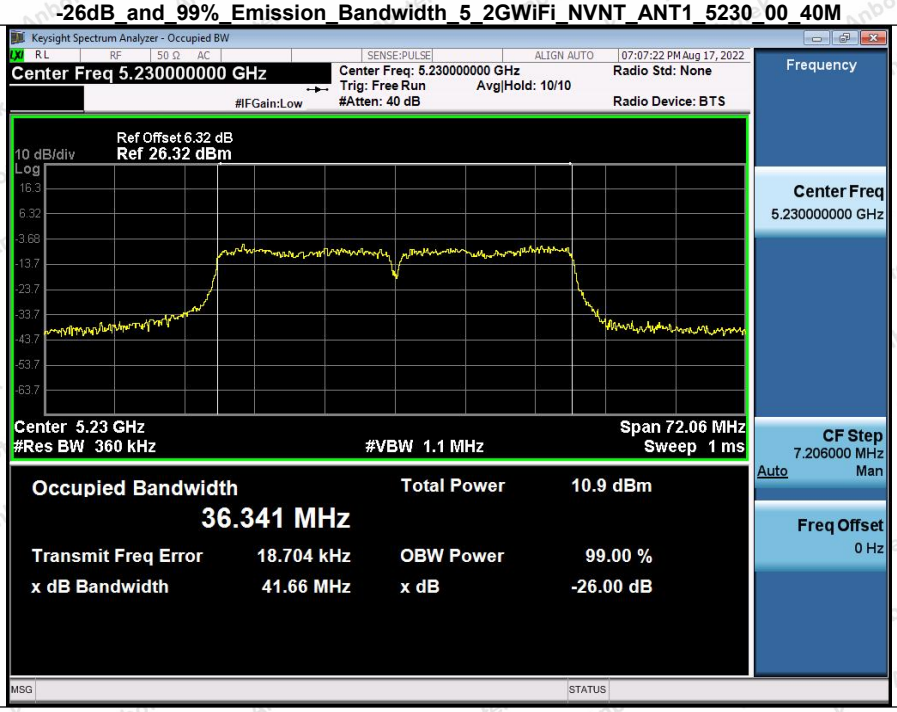



-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5240_00_20M

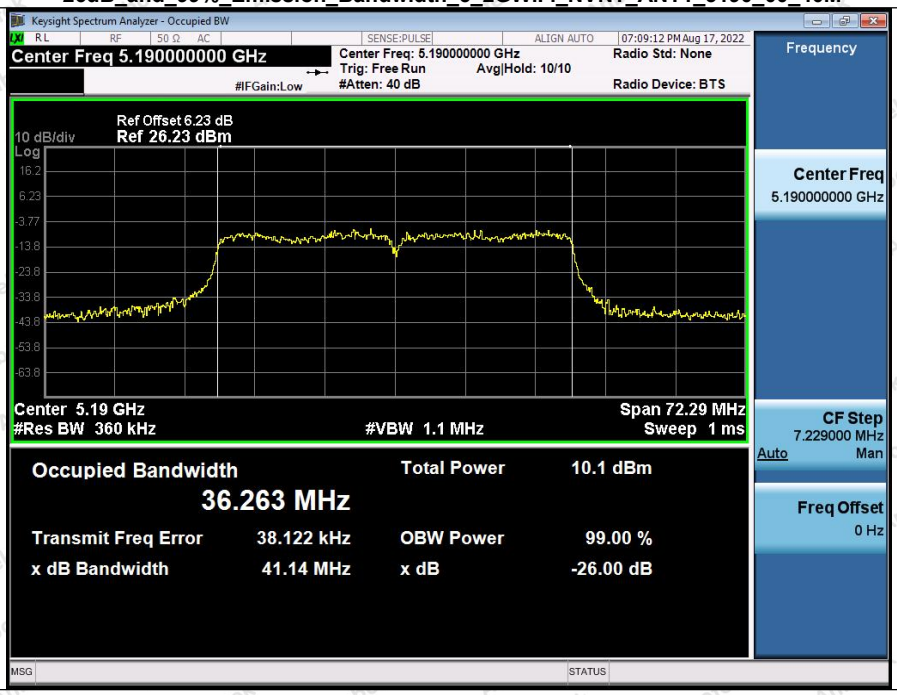
-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5190_00_40M



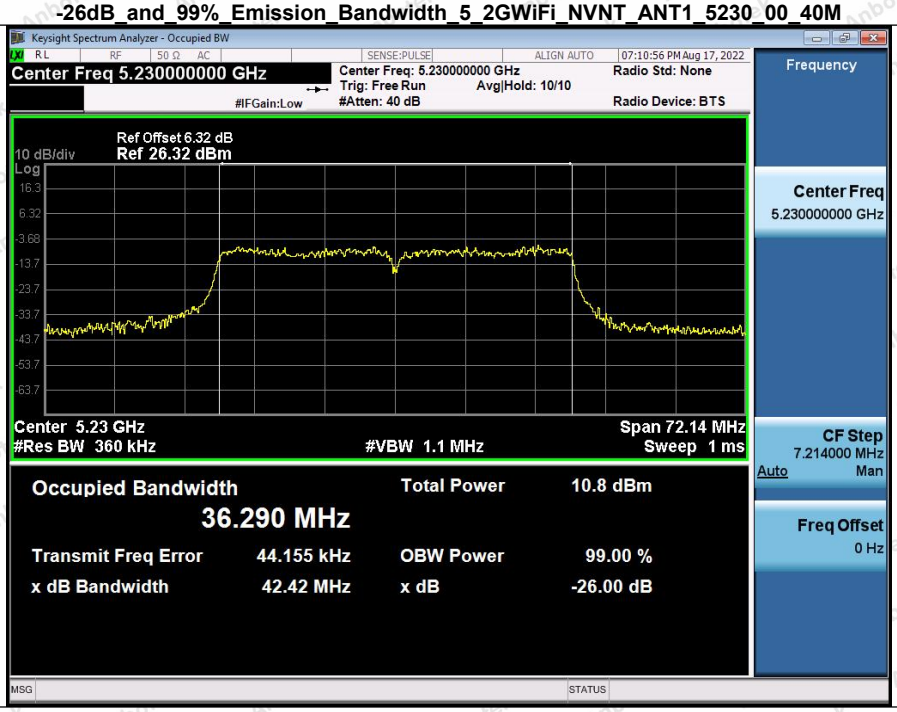

-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5230_00_40M



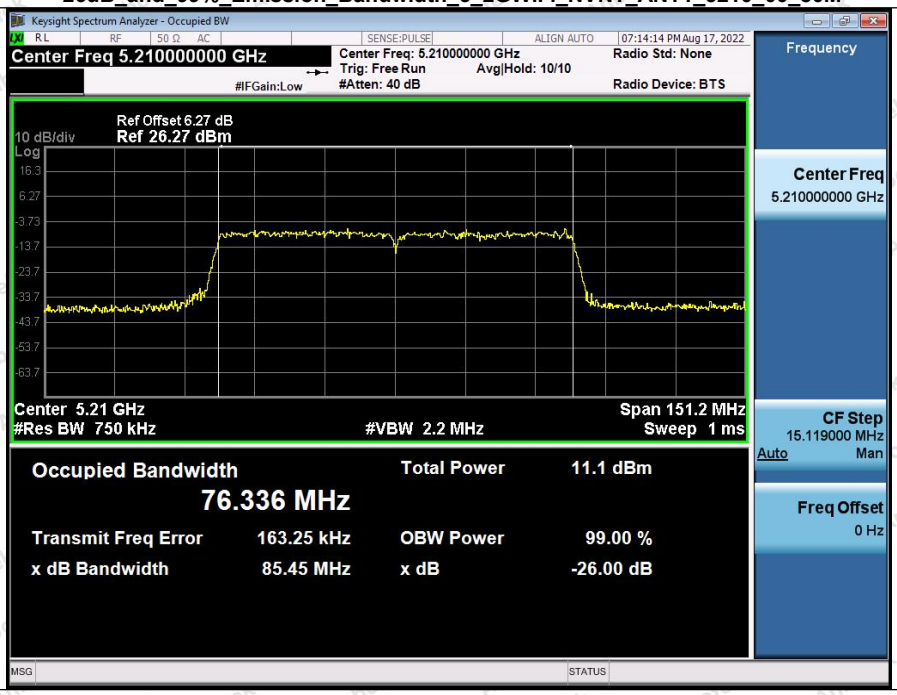
-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5190_00_40M




-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5230_00_40M



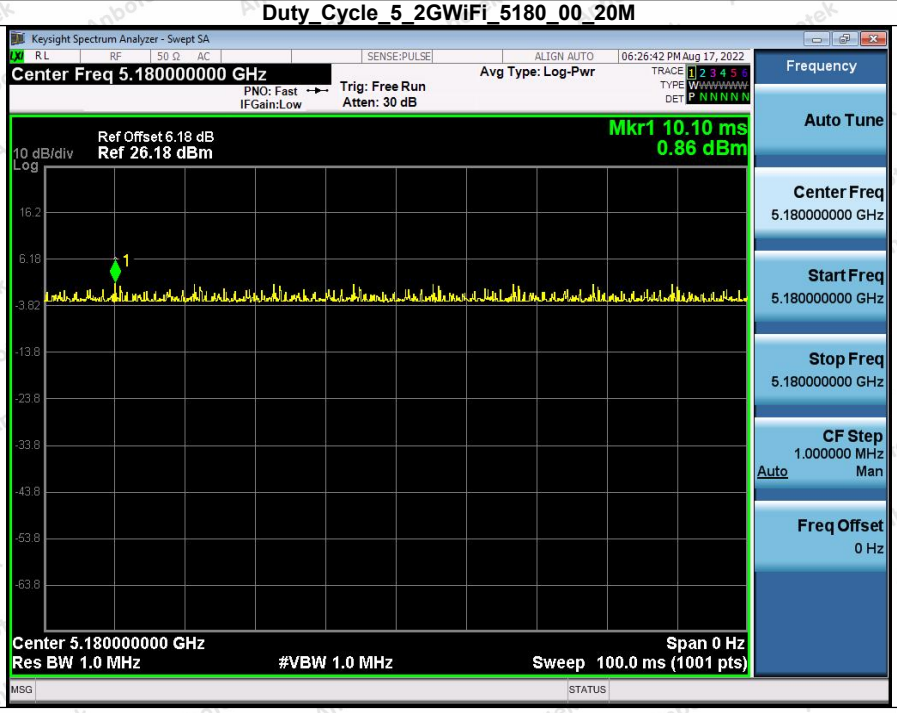
-26dB_and_99%_Emission_Bandwidth_5_2GWiFi_NVNT_ANT1_5210_00_80M



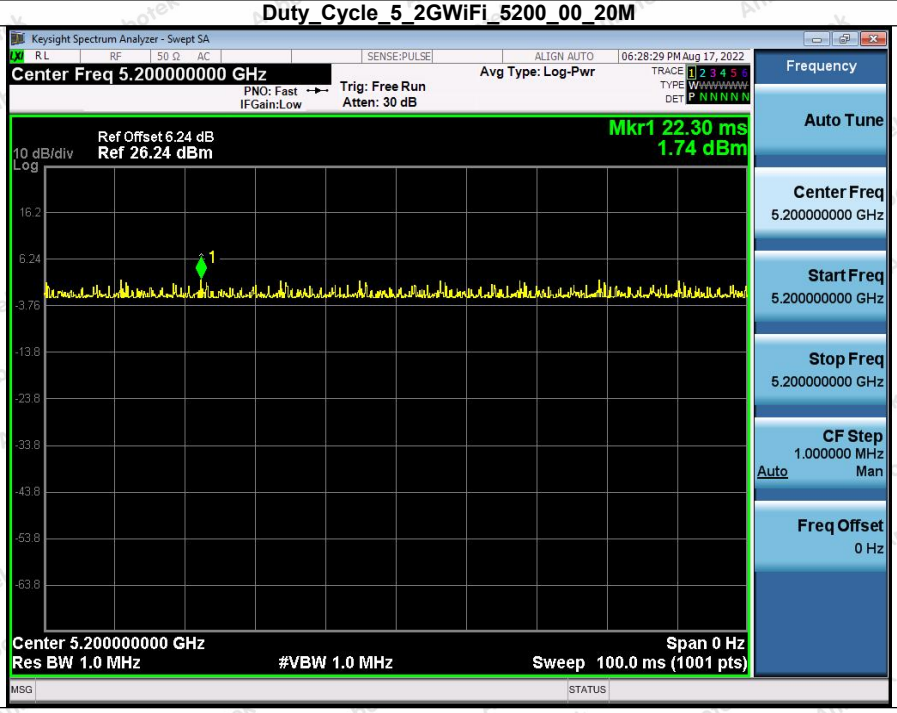
## 2. Duty Cycle

| Condition | Antenna | Modulation | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5180.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11a | 5200.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11a | 5240.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11n(HT20) | 5180.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11n(HT20) | 5200.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11n(HT20) | 5240.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5180.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5200.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5240.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11n(HT40) | 5190.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11n(HT40) | 5230.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5190.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5230.00 | 100.00 | 0.00 |
| NVNT | ANT1 | 802.11ac(VHT80) | 5210.00 | 100.00 | 0.00 |

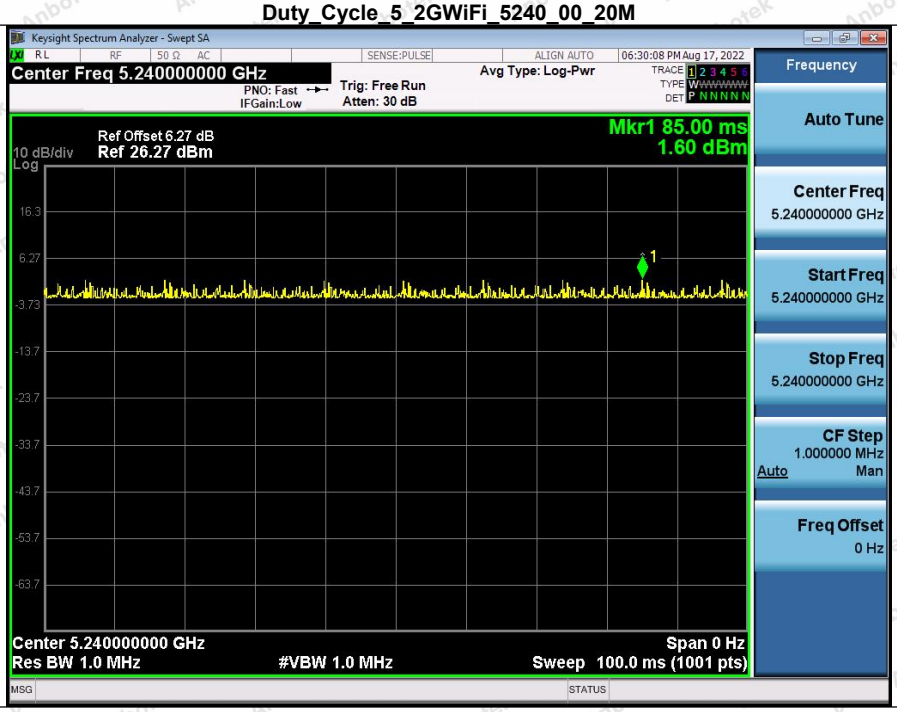
Duty_Cycle_5_2GWiFi_5180_00_20M



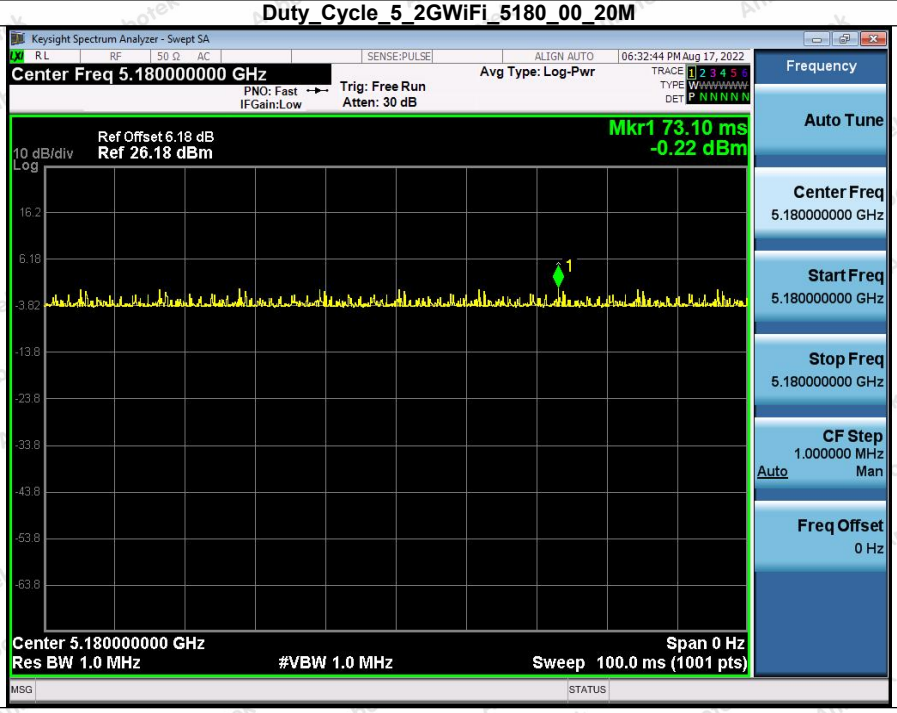
Duty_Cycle_5_2GWiFi_5200_00_20M



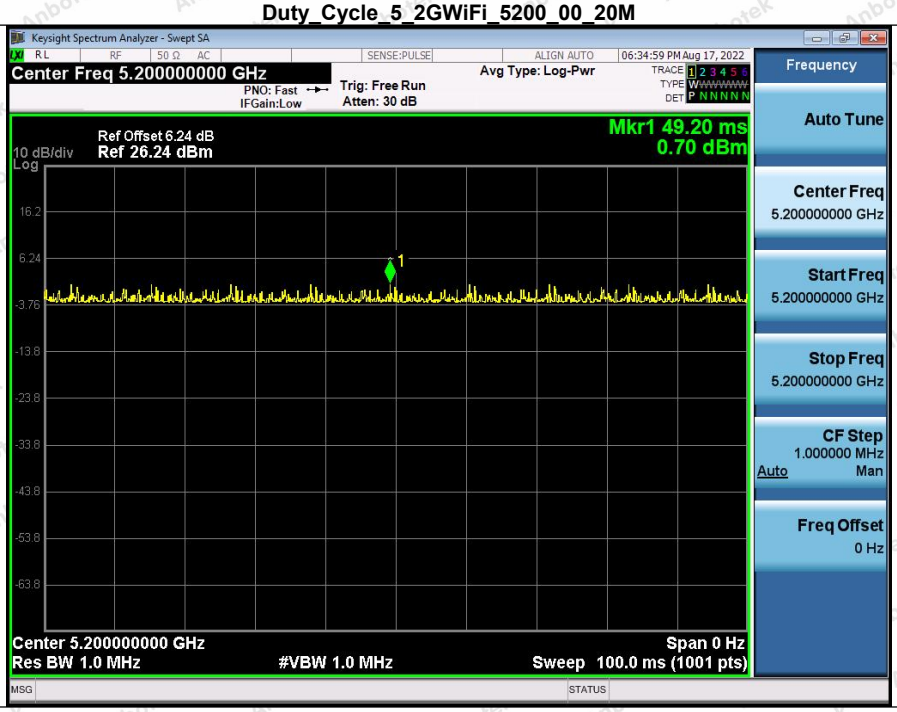

Duty_Cycle_5_2GWiFi_5240_00_20M



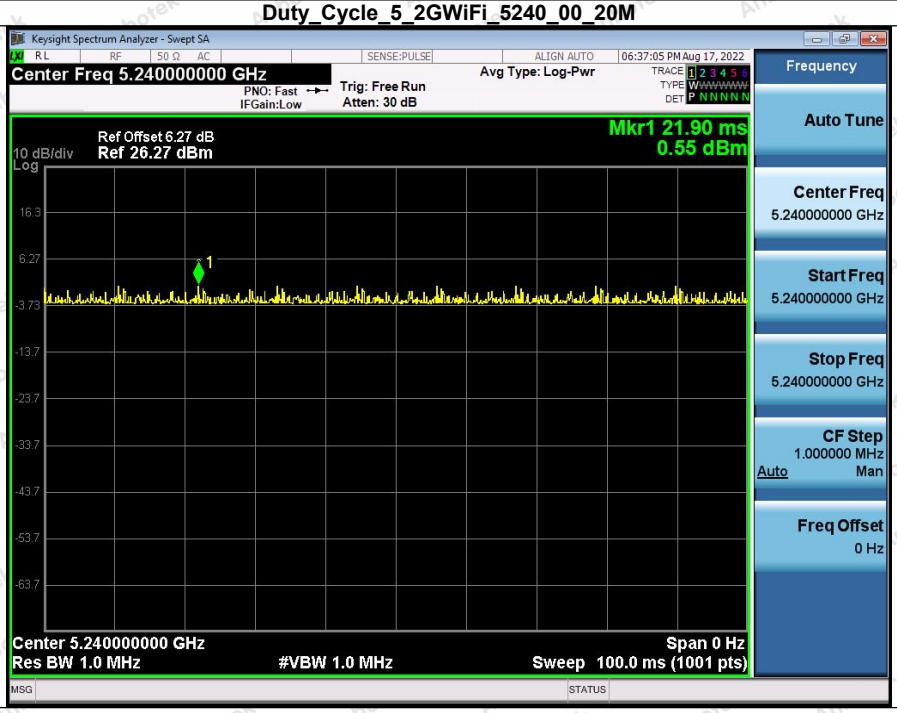
Duty_Cycle_5_2GWiFi_5180_00_20M



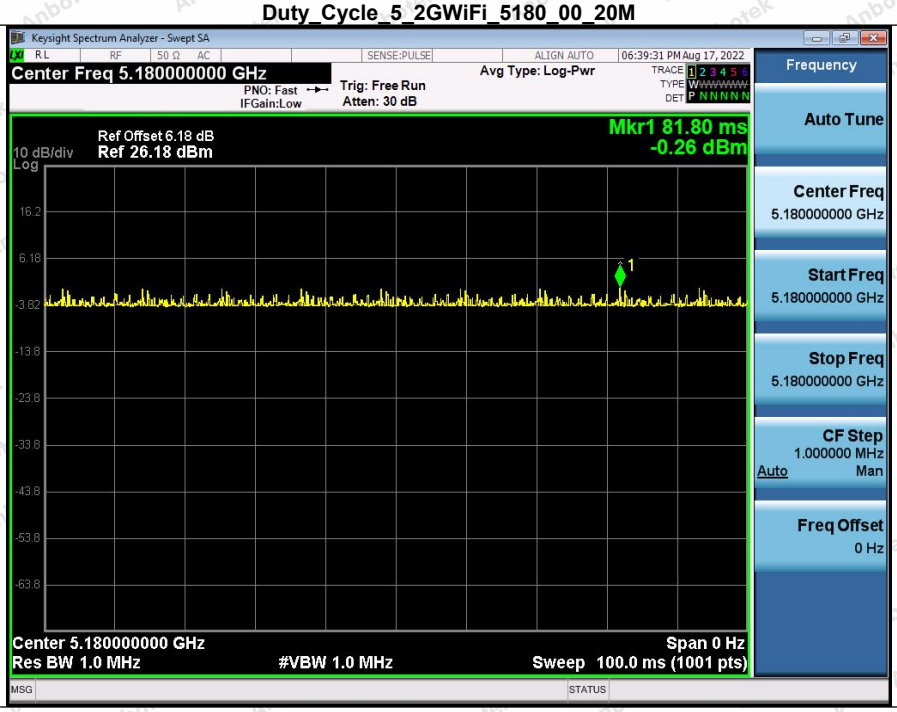

Duty_Cycle_5_2GWiFi_5200_00_20M



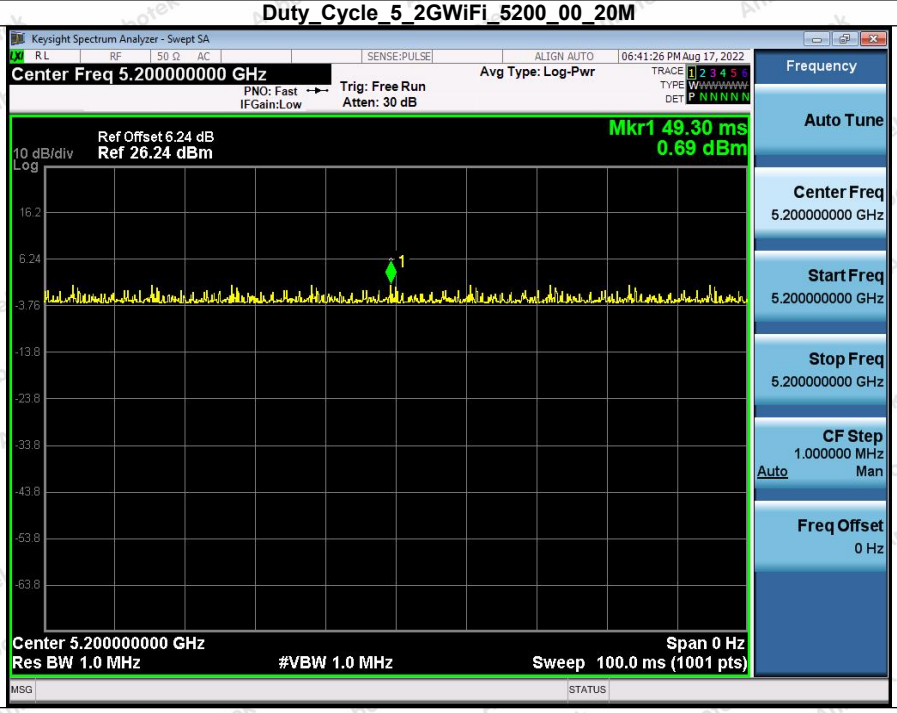
Duty_Cycle_5_2GWiFi_5240_00_20M



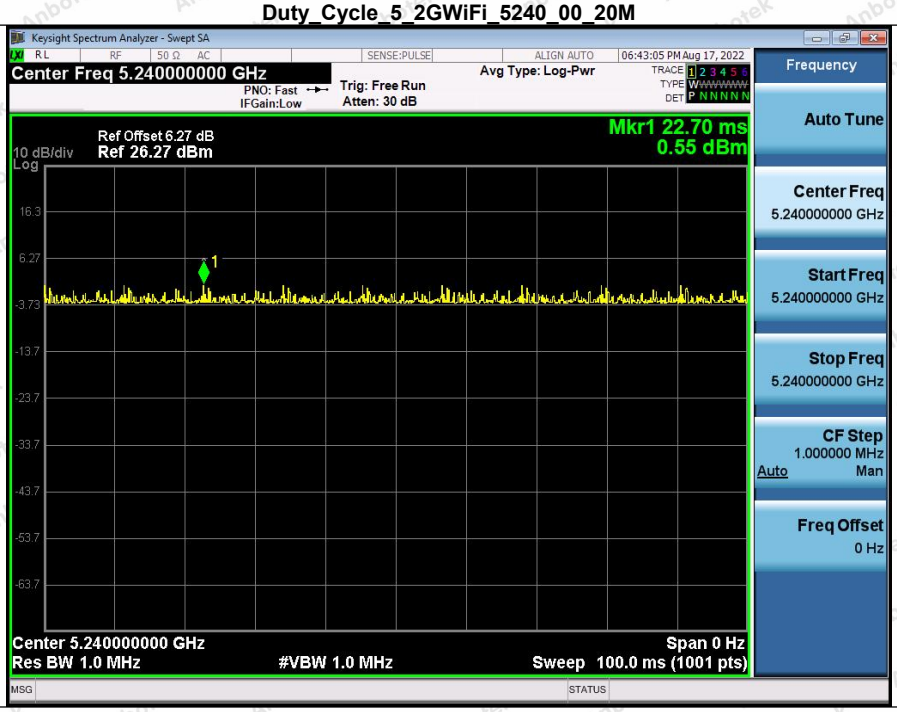

Duty_Cycle_5_2GWiFi_5180_00_20M



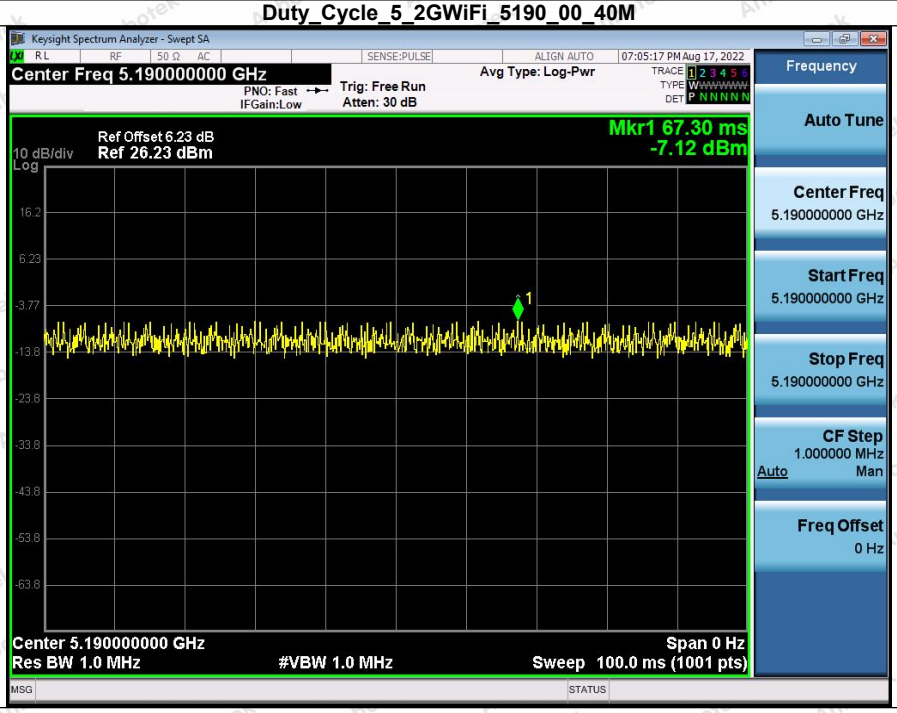
Duty_Cycle_5_2GWiFi_5200_00_20M



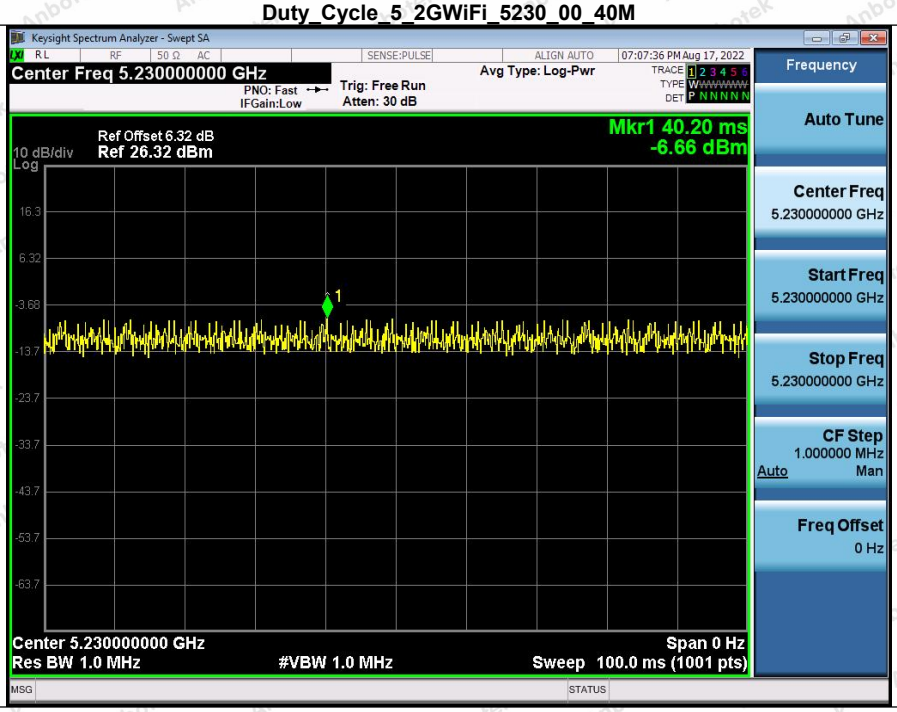

Duty_Cycle_5_2GWiFi_5240_00_20M



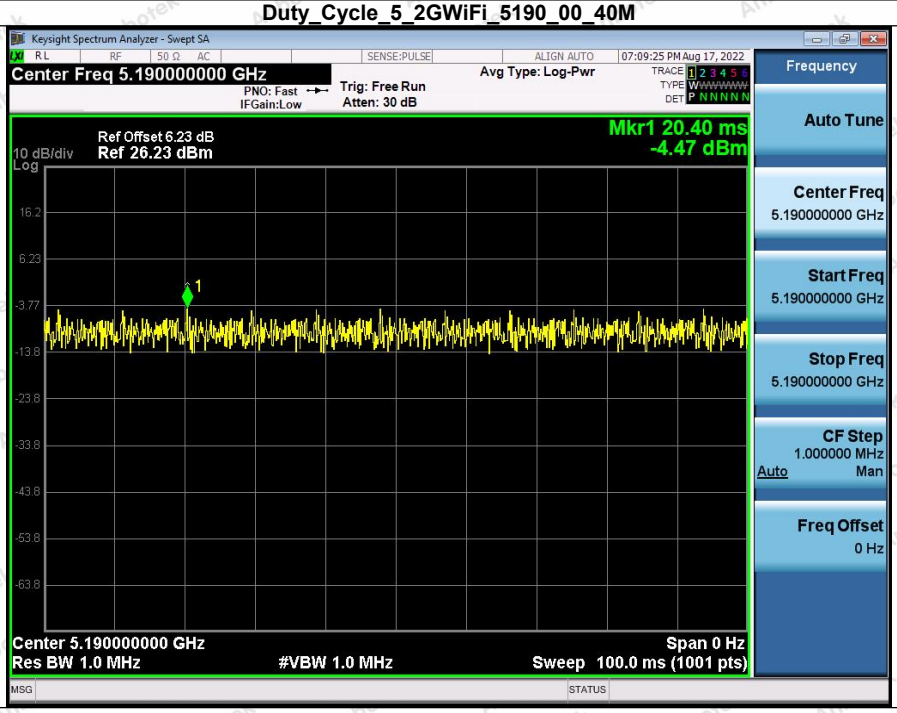
Duty_Cycle_5_2GWiFi_5190_00_40M



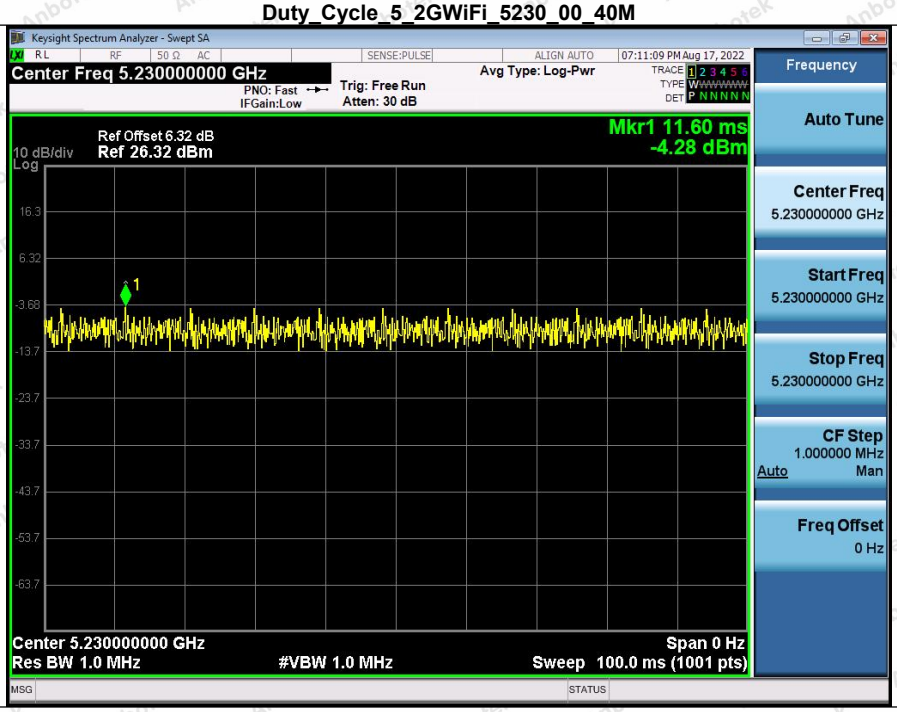

Duty_Cycle_5_2GWiFi_5230_00_40M



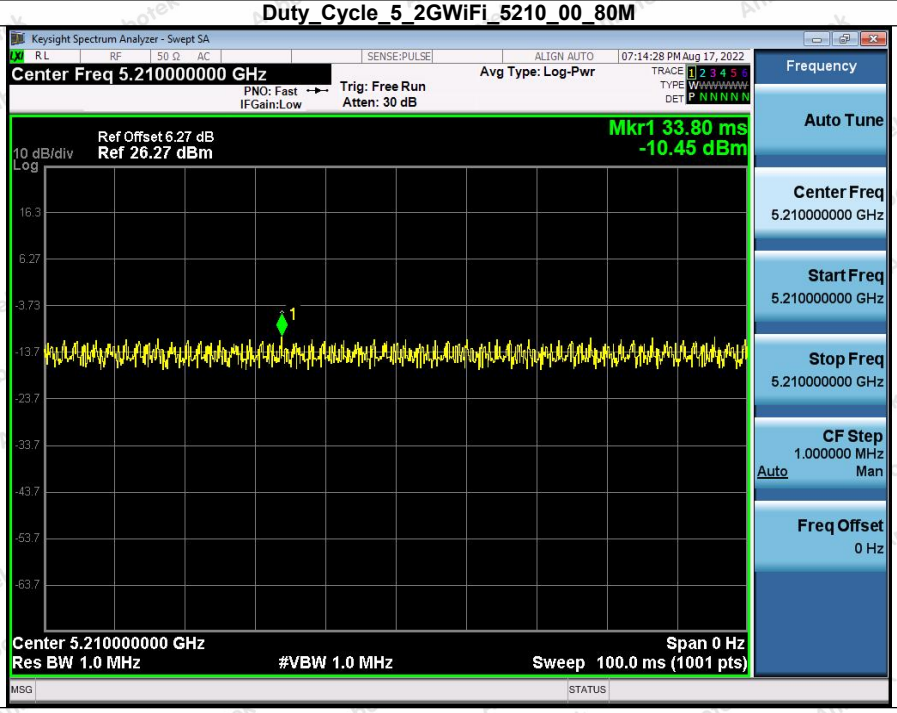
Duty_Cycle_5_2GWiFi_5190_00_40M




Duty_Cycle_5_2GWiFi_5230_00_40M



Duty_Cycle_5_2GWiFi_5210_00_80M



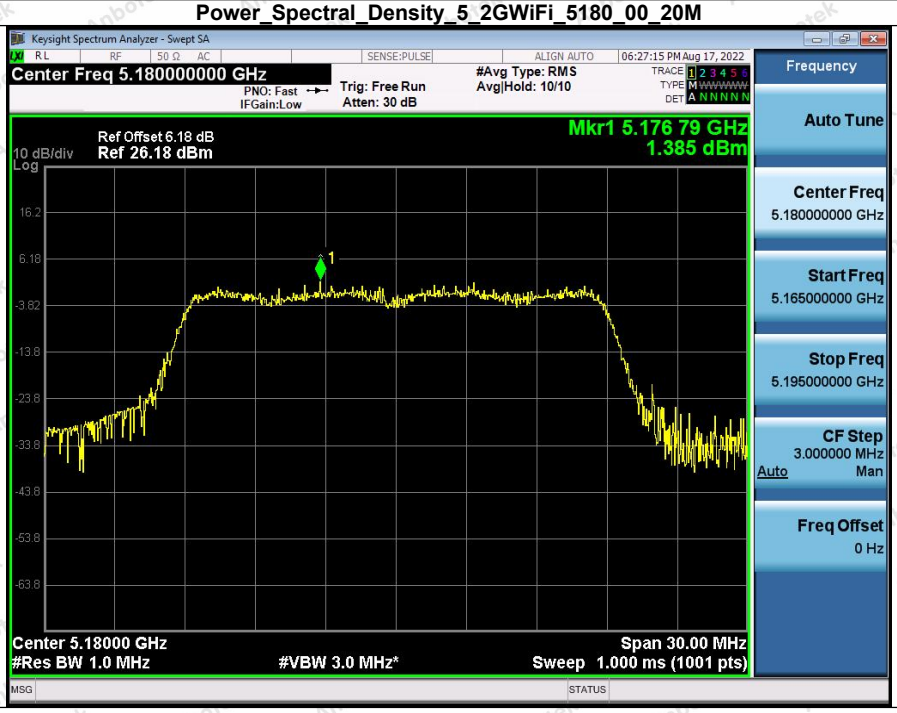
# 3. Maximum Conducted Output Power

| Condition | Antenna | Modulation | Frequency (MHz) | Conducted Power(dBm) | Duty factor(dB) | Total Power(dBm) | limit(dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5180.00 | 11.01 | 0.00 | 11.01 | 24 | Pass |
| NVNT | ANT1 | 802.11a | 5200.00 | 11.95 | 0.00 | 11.95 | 24 | Pass |
| NVNT | ANT1 | 802.11a | 5240.00 | 12.03 | 0.00 | 12.03 | 24 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5180.00 | 9.91 | 0.00 | 9.91 | 24 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5200.00 | 10.83 | 0.00 | 10.83 | 24 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5240.00 | 10.97 | 0.00 | 10.97 | 24 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5180.00 | 9.85 | 0.00 | 9.85 | 24 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5200.00 | 10.77 | 0.00 | 10.77 | 24 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5240.00 | 10.92 | 0.00 | 10.92 | 24 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5190.00 | 8.86 | 0.00 | 8.86 | 24 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5230.00 | 9.59 | 0.00 | 9.59 | 24 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5190.00 | 9.00 | 0.00 | 9.00 | 24 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5230.00 | 9.68 | 0.00 | 9.68 | 24 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5210.00 | 9.31 | 0.00 | 9.31 | 24 | Pass |

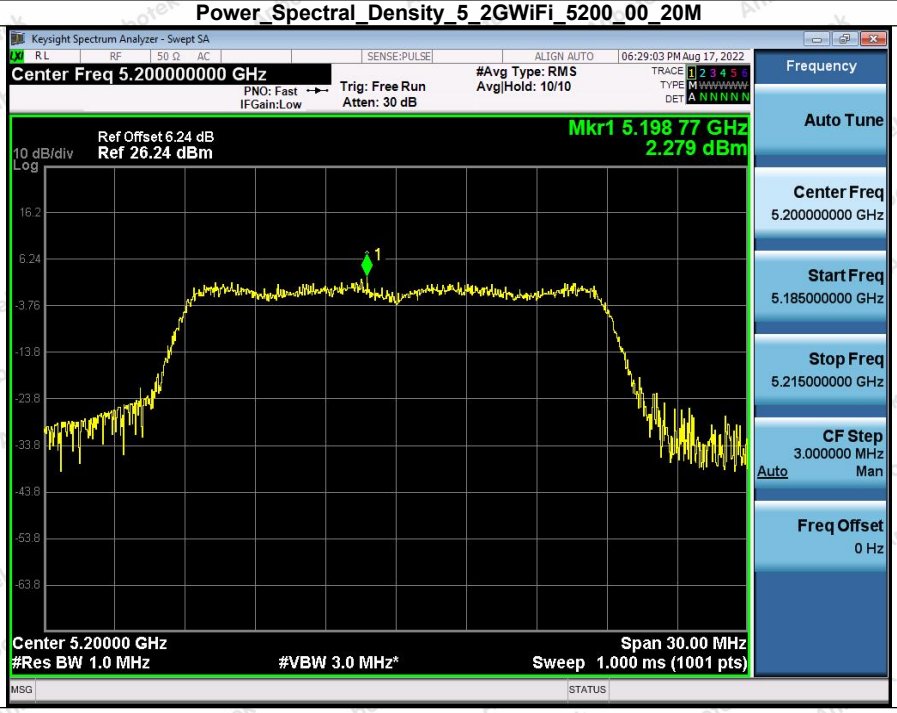
# 4. Power Spectral Density

| Condition | Antenna | Modulation | Frequency (MHz) | PSD(dBm) | limit(dBm) | Result |
|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5180.00 | 1.385 | 11 | Pass |
| NVNT | ANT1 | 802.11a | 5200.00 | 2.279 | 11 | Pass |
| NVNT | ANT1 | 802.11a | 5240.00 | 2.055 | 11 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5180.00 | -0.108 | 11 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5200.00 | 1.224 | 11 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5240.00 | 1.212 | 11 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5180.00 | 0.296 | 11 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5200.00 | 1.445 | 11 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5240.00 | 0.840 | 11 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5190.00 | -3.344 | 11 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5230.00 | -3.031 | 11 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5190.00 | -3.246 | 11 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5230.00 | -3.203 | 11 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5210.00 | -7.442 | 11 | Pass |

Power_Spectral_Density_5_2GWiFi_5180_00_20M

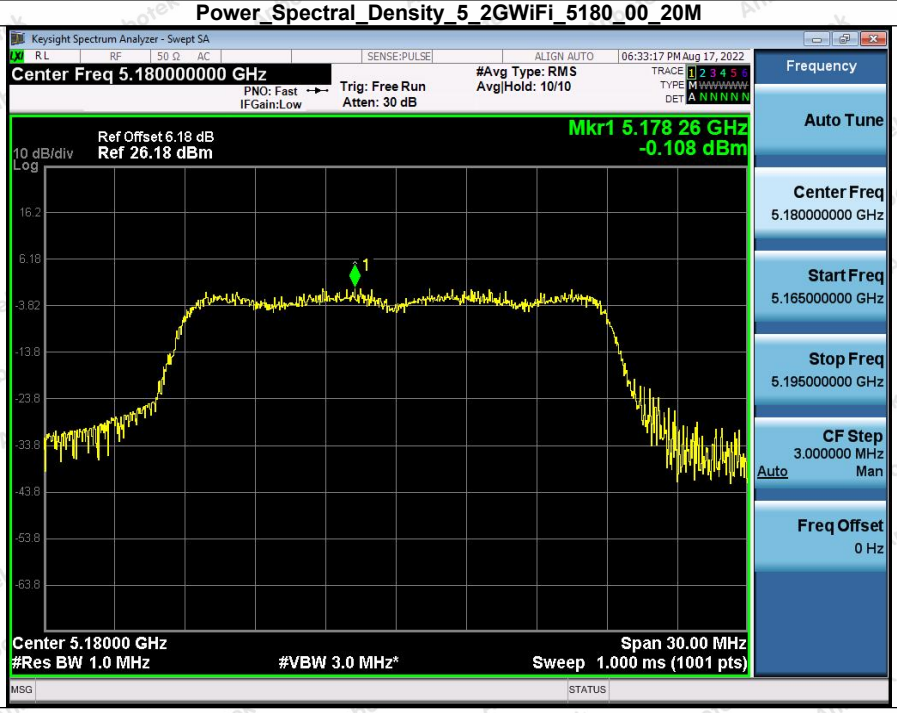


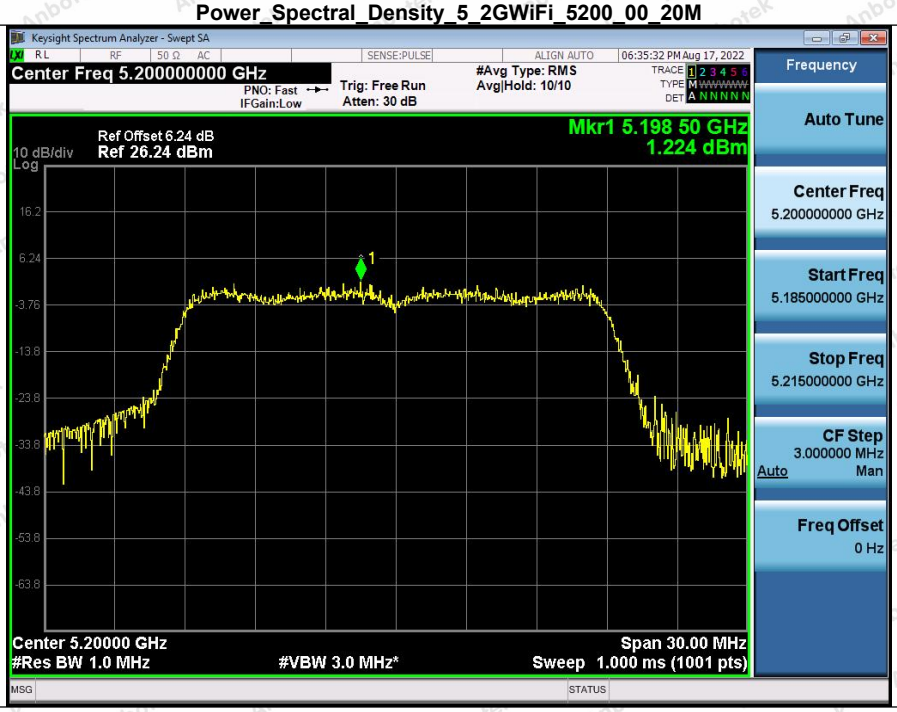
Power_Spectral_Density_5_2GWiFi_5200_00_20M




Power_Spectral_Density_5_2GWiFi_5240_00_20M

Power_Spectral_Density_5_2GWiFi_5180_00_20M




Power_Spectral_Density_5_2GWiFi_5200_00_20M