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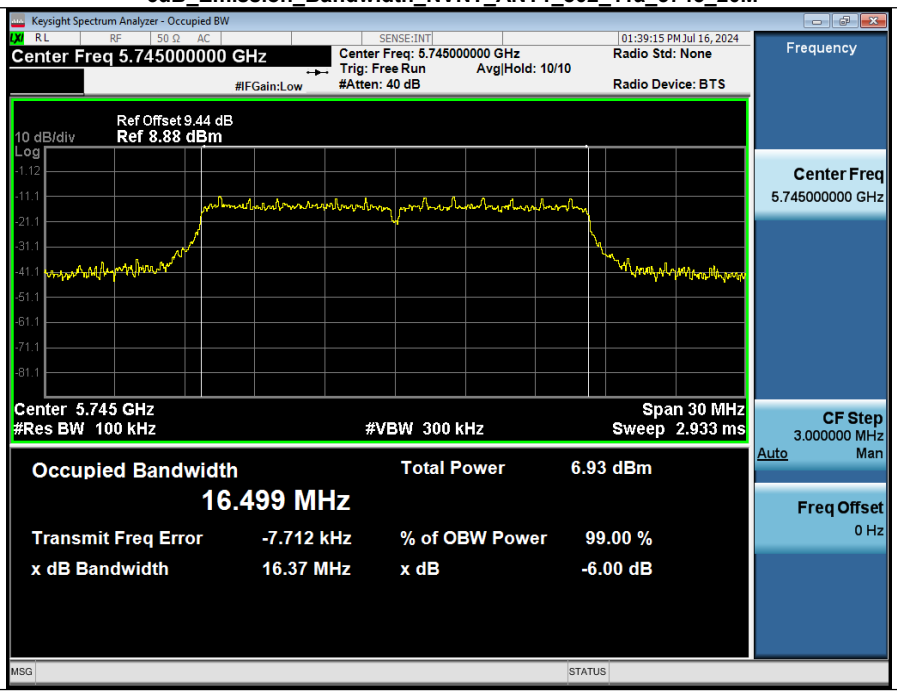
# FCC ID:2BCAX-HY320MINI
# FCC_5.8G_WIFI (Part15.407) Test Data

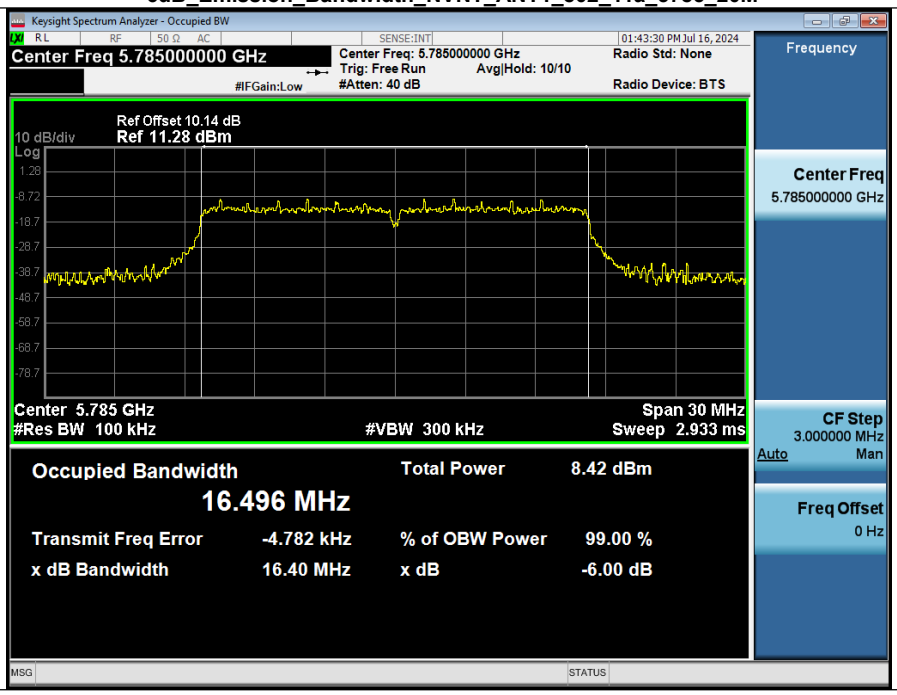
## 1. -6dB Emission Bandwidth

| Condition | Antenna | Mode | Frequency(MHz) | -6dB_Emission_Bandwidth(MHz) | Limit(MHz) | Result |
|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5745.00 | 16.373 | 0.500 | Pass |
| NVNT | ANT1 | 802.11a | 5785.00 | 16.399 | 0.500 | Pass |
| NVNT | ANT1 | 802.11a | 5825.00 | 16.372 | 0.500 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5745.00 | 17.450 | 0.500 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5785.00 | 17.597 | 0.500 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5825.00 | 17.445 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5745.00 | 17.458 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5785.00 | 17.293 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5825.00 | 17.411 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5745.00 | 17.557 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5785.00 | 17.472 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5825.00 | 17.442 | 0.500 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5755.00 | 36.189 | 0.500 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5795.00 | 36.274 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5755.00 | 36.284 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5795.00 | 36.403 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5755.00 | 36.041 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5795.00 | 36.390 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5775.00 | 76.456 | 0.500 | Pass |
| NVNT | ANT1 | 802.11ax(HE80) | 5775.00 | 76.327 | 0.500 | Pass |

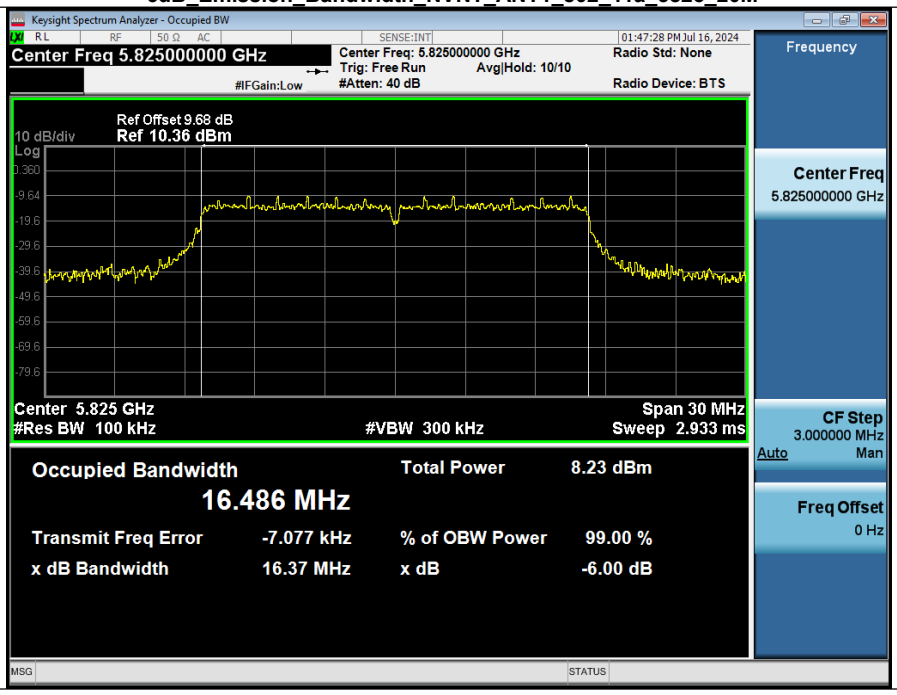
**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5745_20M**



**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5785_20M**




**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5825_20M**



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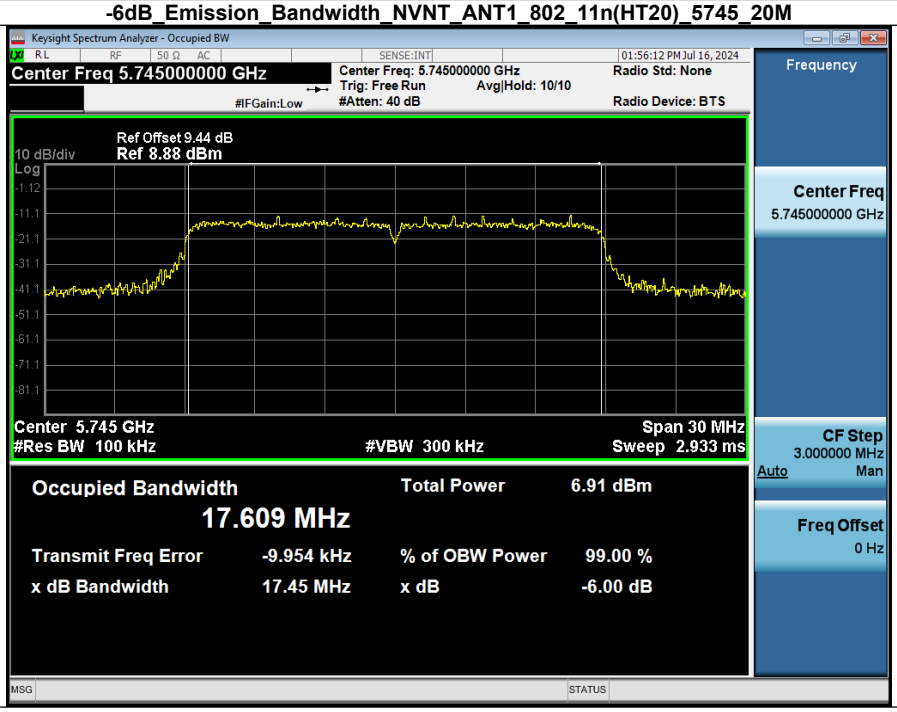


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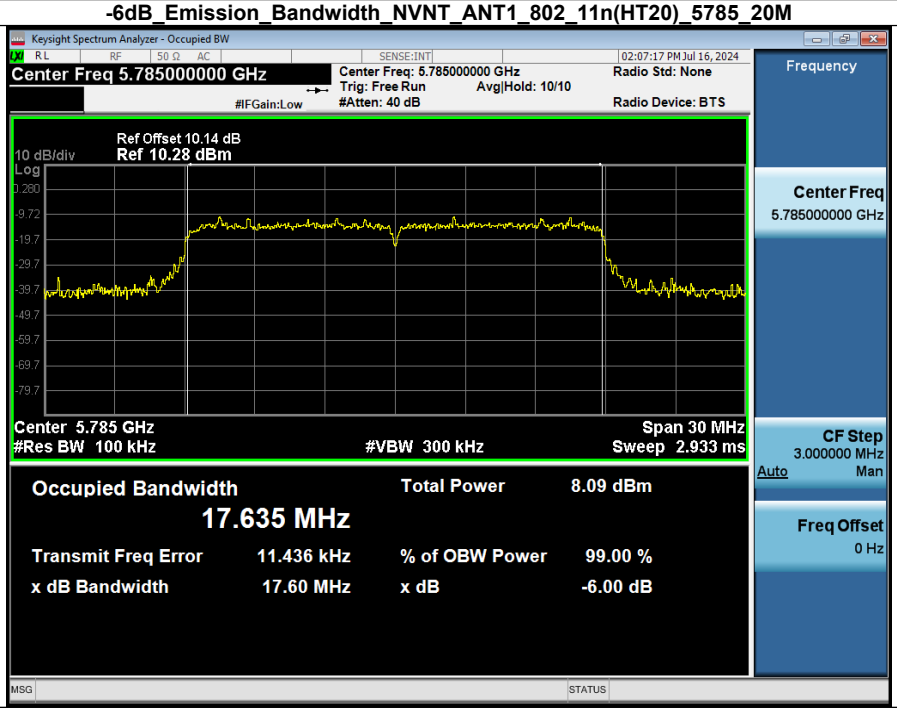

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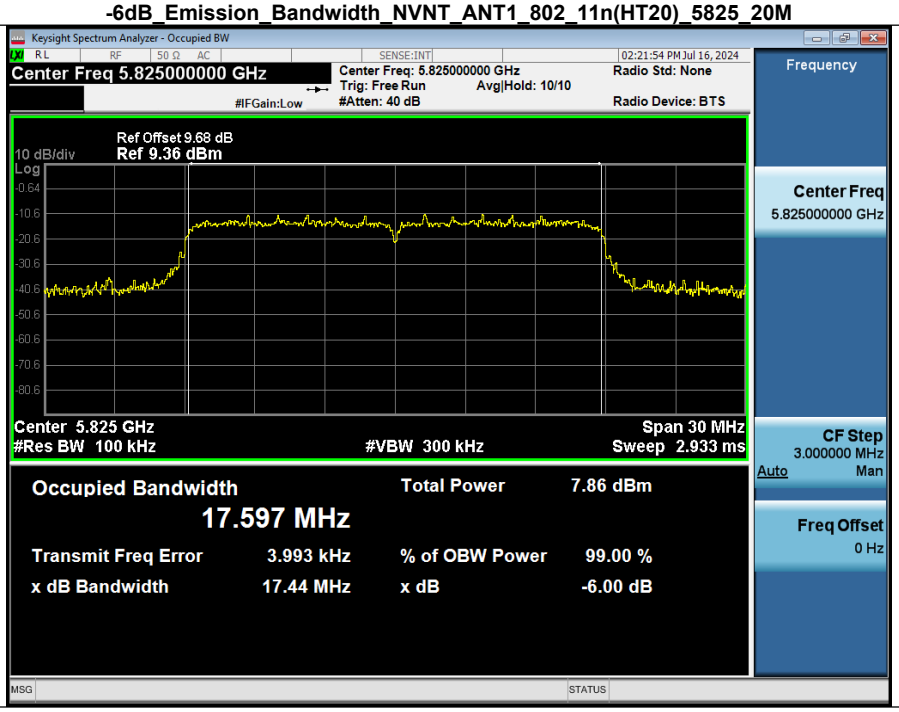


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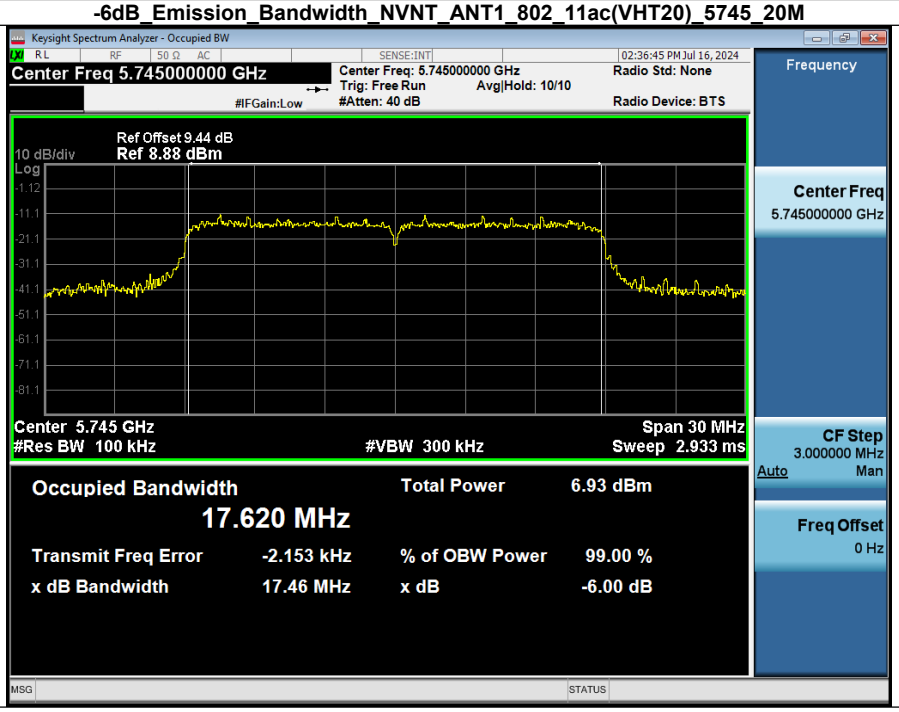

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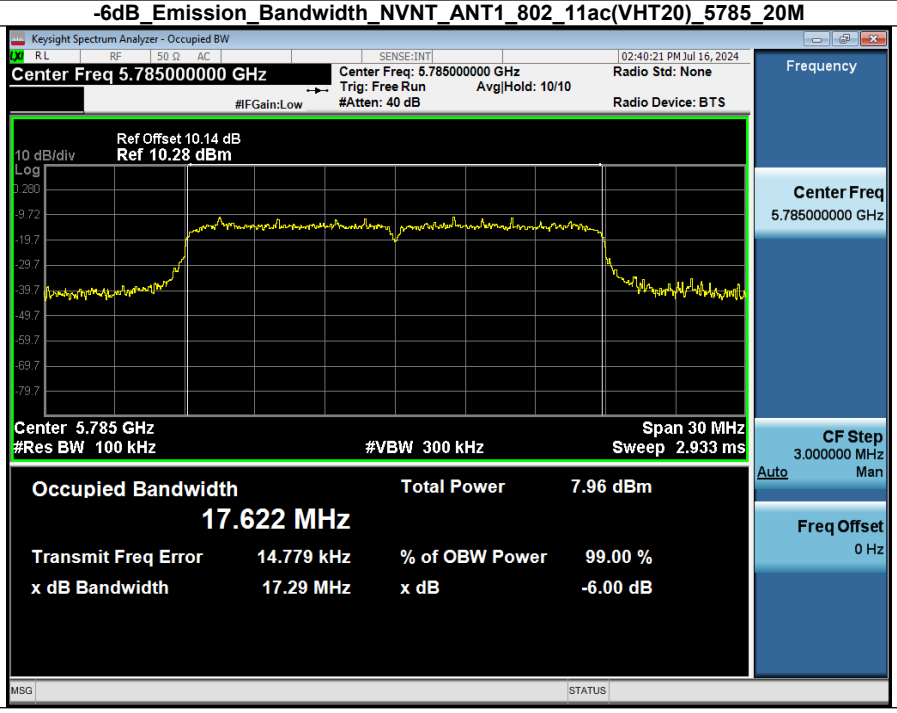


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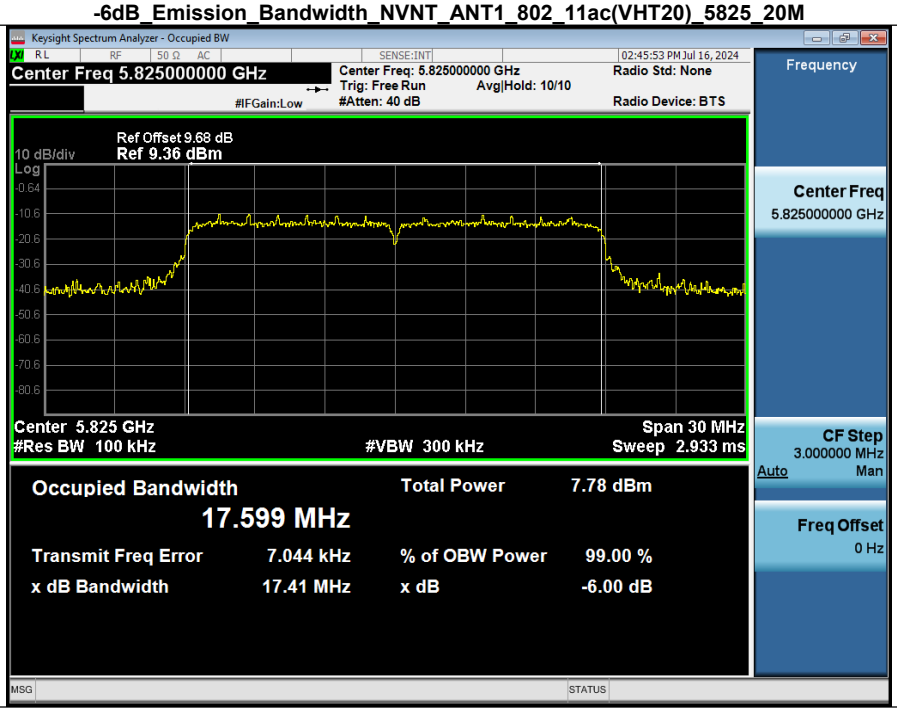

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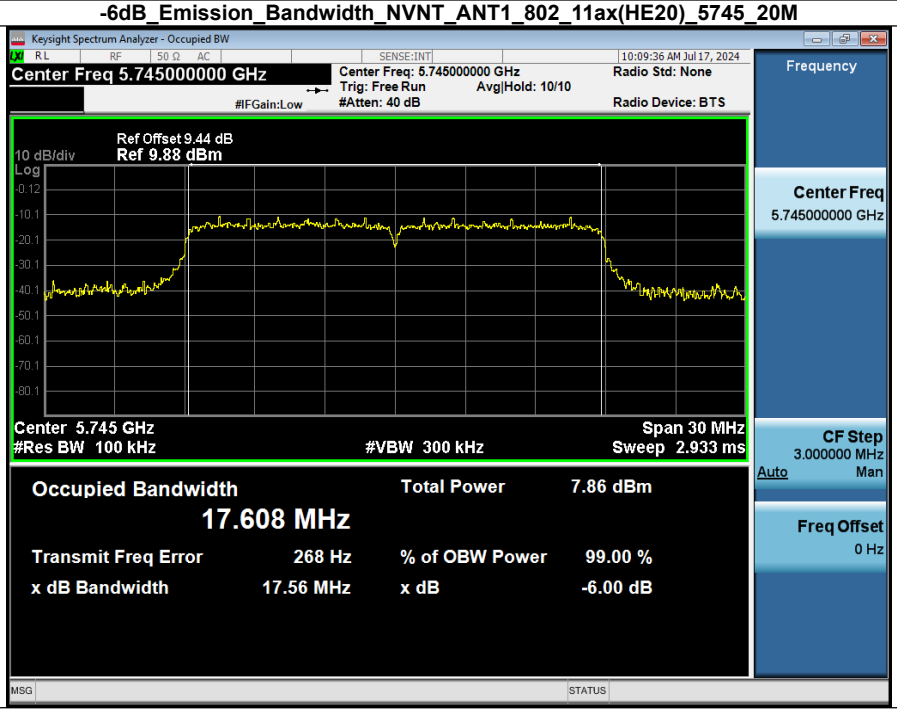
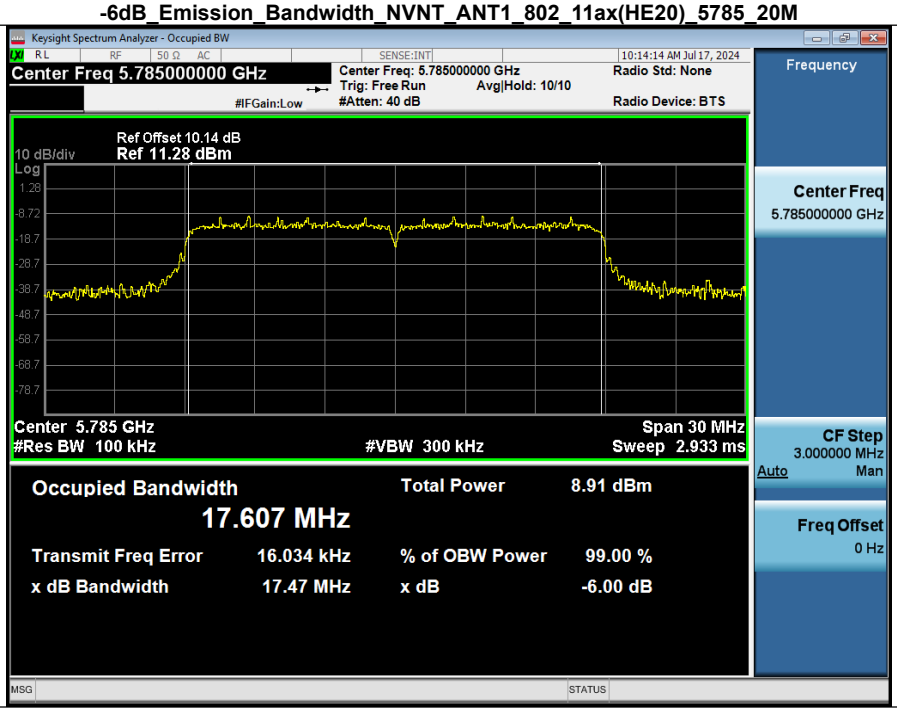
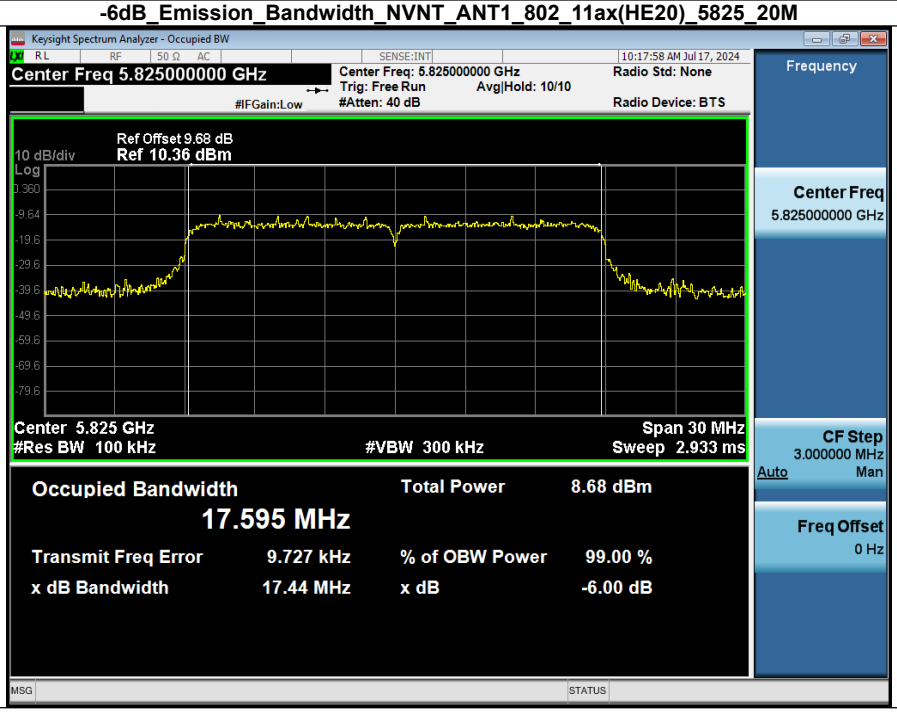


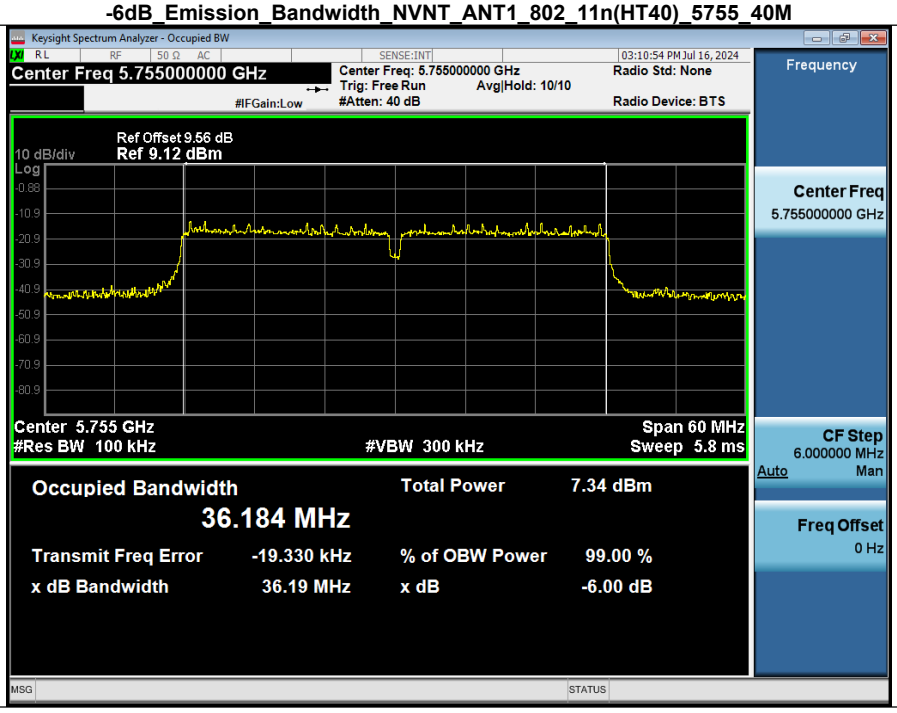

**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE20)_5785_20M**



-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE20)_5825_20M




-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5755_40M



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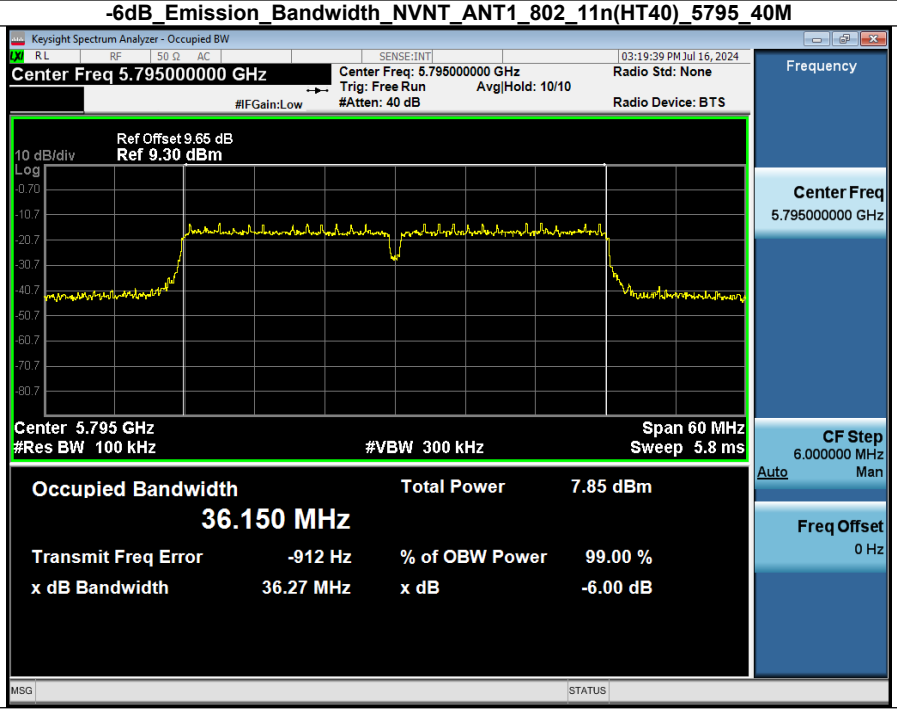
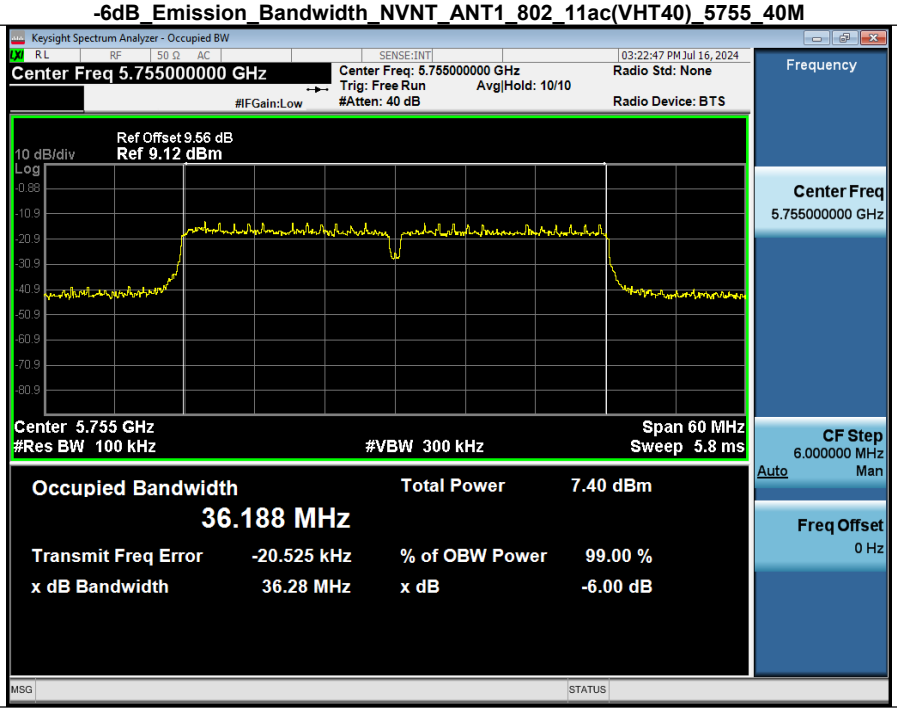
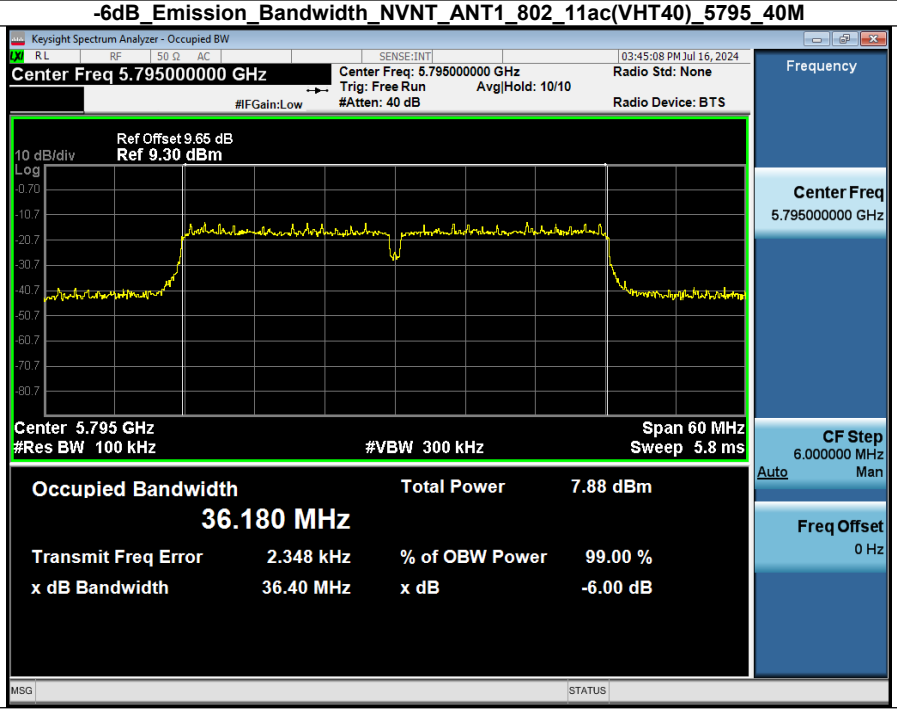


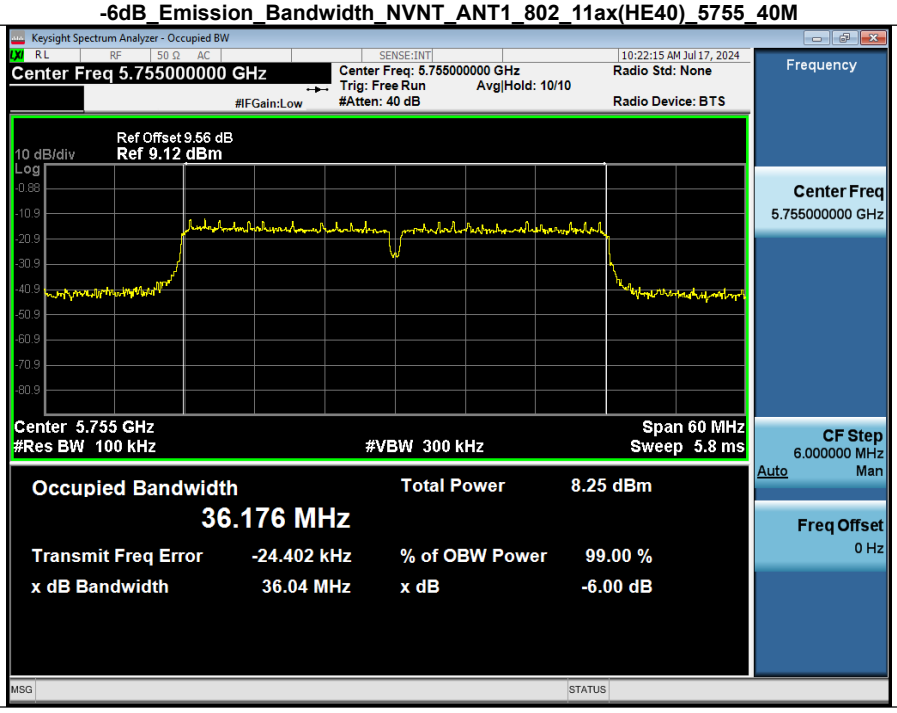

**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT40)_5755_40M**



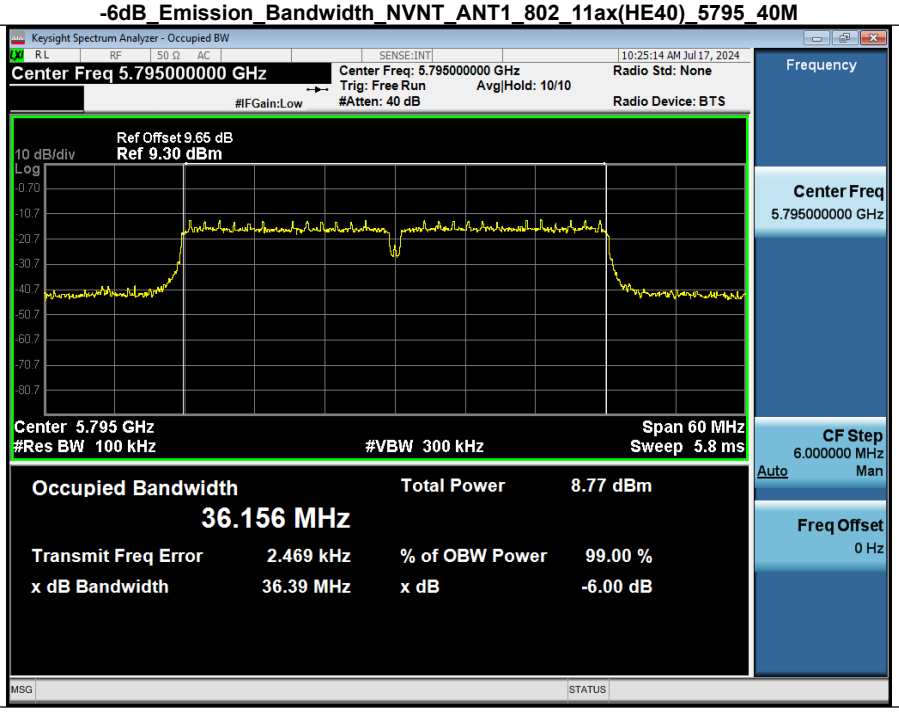
**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT40)_5795_40M**



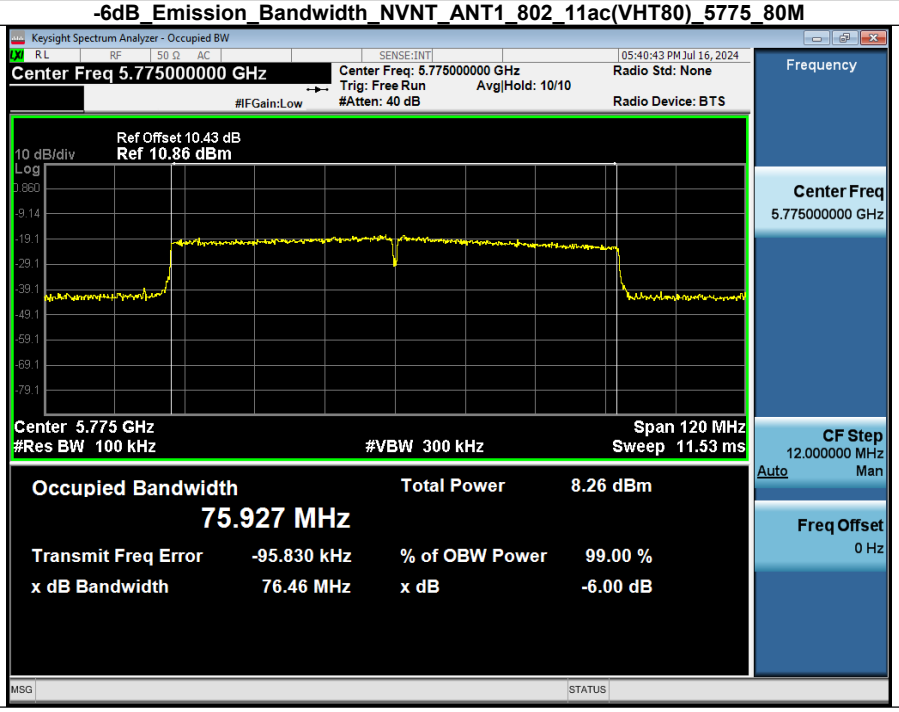

**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE40)_5755_40M**

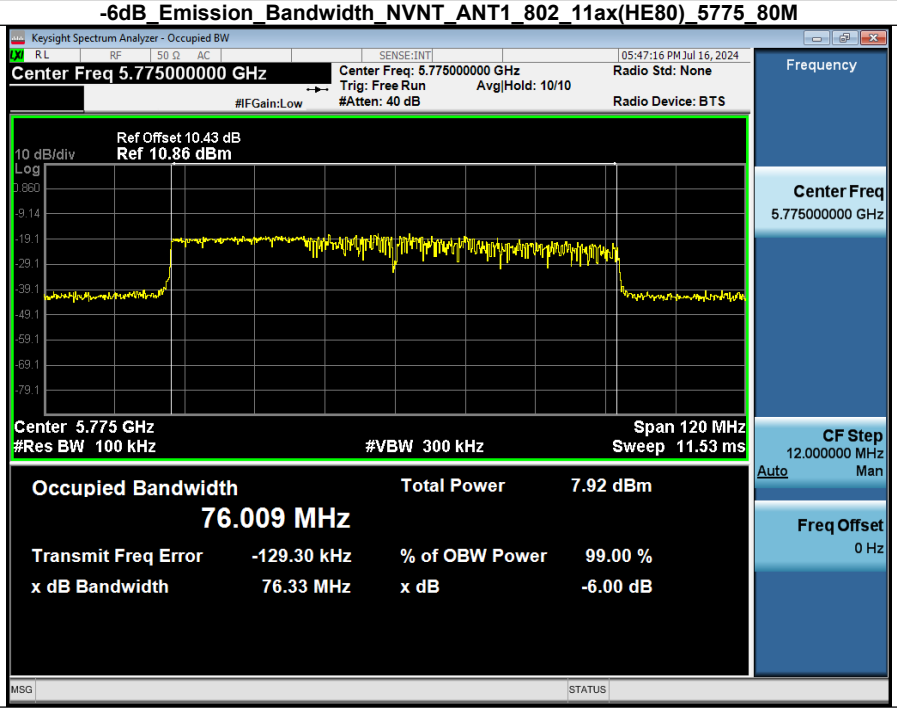


**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE40)_5795_40M**




**-6dB_Emission_Bandwidth_NVNT_ANT1_802_11ac(VHT80)_5775_80M**

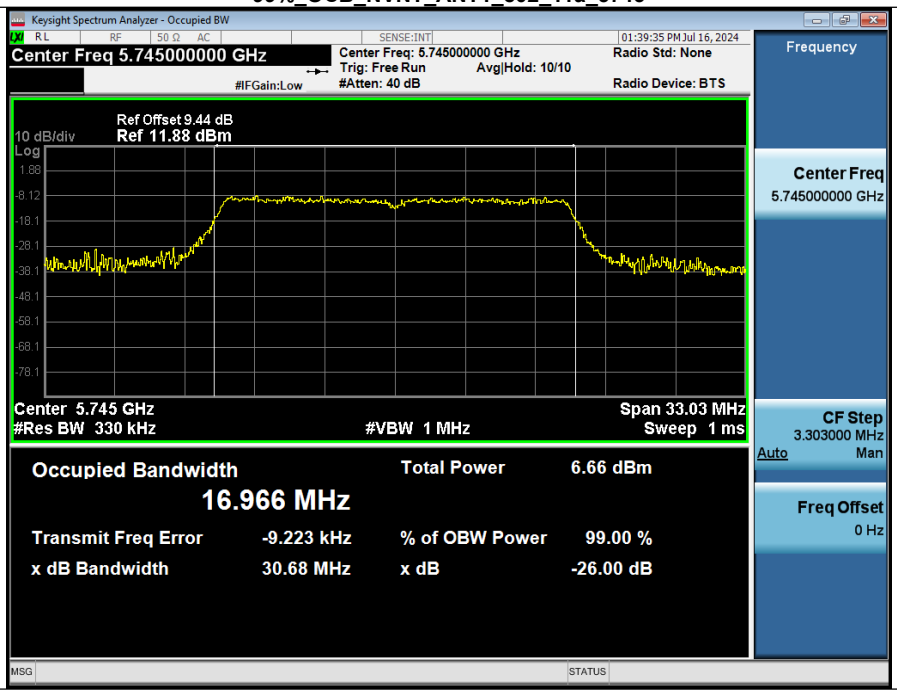


| -6dB_Emission_Bandwidth_NVNT_ANT1_802_11ax(HE80)_5775_80M |
| --- |
|  |

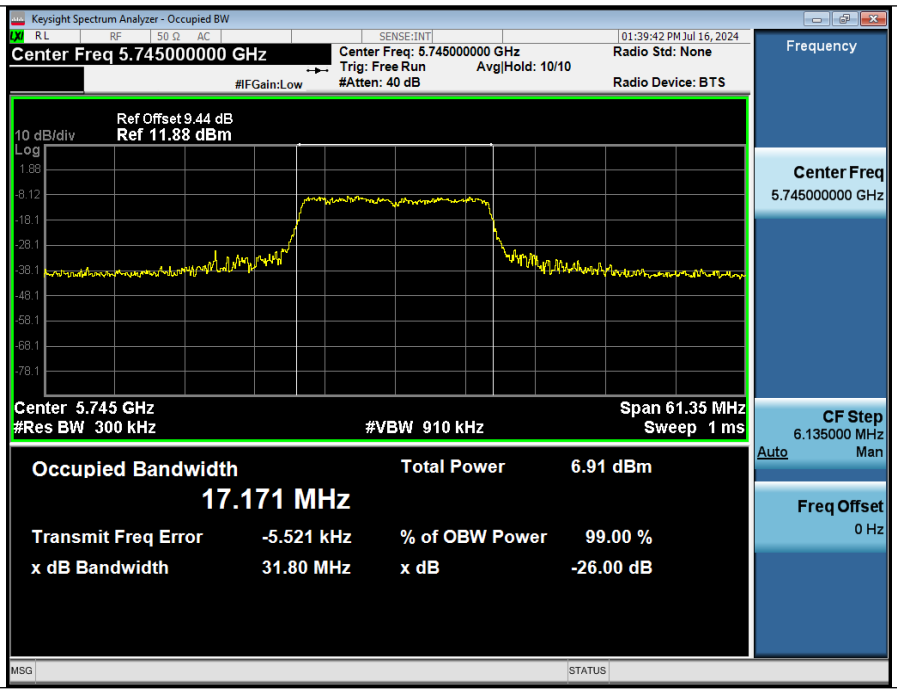
## 2. -26dB and 99% Emission Bandwidth

| Condition | Antenna | Modulation | Frequency(MHz) | -26dB_Emission_Bandwidth(MHz) | Occupied Bandwidth(MHz) |
|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5745.00 | 31.80 | 16.97 |
| NVNT | ANT1 | 802.11a | 5785.00 | 31.32 | 16.91 |
| NVNT | ANT1 | 802.11a | 5825.00 | 28.14 | 16.94 |
| NVNT | ANT1 | 802.11n(HT20) | 5745.00 | 35.21 | 17.91 |
| NVNT | ANT1 | 802.11n(HT20) | 5785.00 | 37.73 | 17.88 |
| NVNT | ANT1 | 802.11n(HT20) | 5825.00 | 31.60 | 17.91 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5745.00 | 31.31 | 18.00 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5785.00 | 33.91 | 17.91 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5825.00 | 33.73 | 17.93 |
| NVNT | ANT1 | 802.11ax(HE20) | 5745.00 | 32.05 | 17.95 |
| NVNT | ANT1 | 802.11ax(HE20) | 5785.00 | 37.40 | 17.92 |
| NVNT | ANT1 | 802.11ax(HE20) | 5825.00 | 37.35 | 17.88 |
| NVNT | ANT1 | 802.11n(HT40) | 5755.00 | 60.37 | 36.78 |
| NVNT | ANT1 | 802.11n(HT40) | 5795.00 | 54.61 | 36.64 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5755.00 | 67.52 | 36.69 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5795.00 | 58.05 | 36.73 |
| NVNT | ANT1 | 802.11ax(HE40) | 5755.00 | 58.54 | 36.66 |
| NVNT | ANT1 | 802.11ax(HE40) | 5795.00 | 54.43 | 36.58 |
| NVNT | ANT1 | 802.11ac(VHT80) | 5775.00 | 301.94 | 76.46 |
| NVNT | ANT1 | 802.11ax(HE80) | 5775.00 | 247.64 | 76.56 |

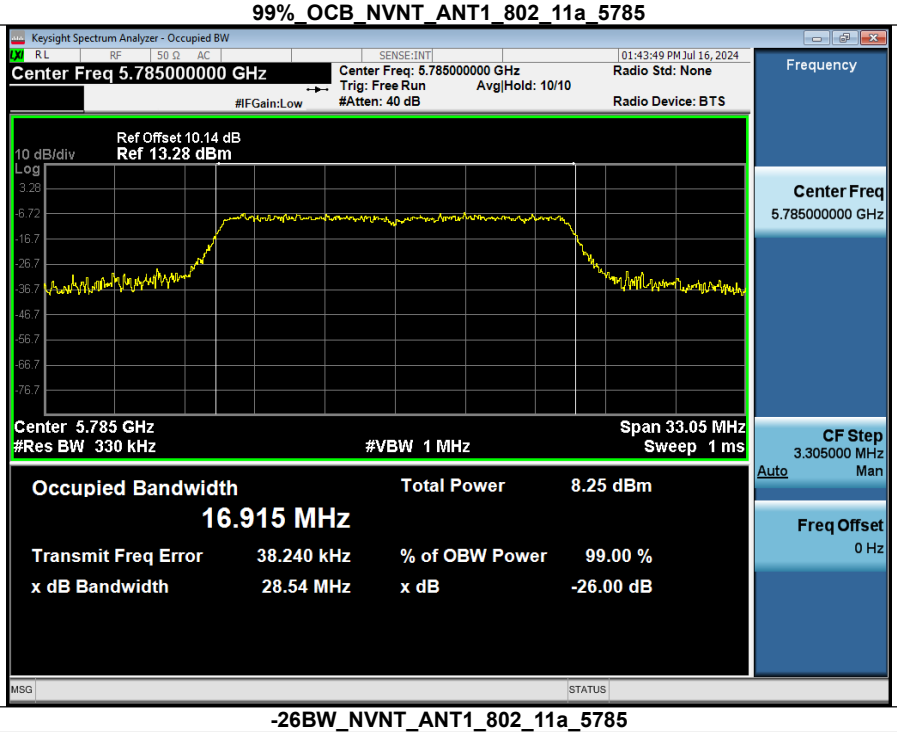
**99%_OCB_NVNT_ANT1_802_11a_5745**



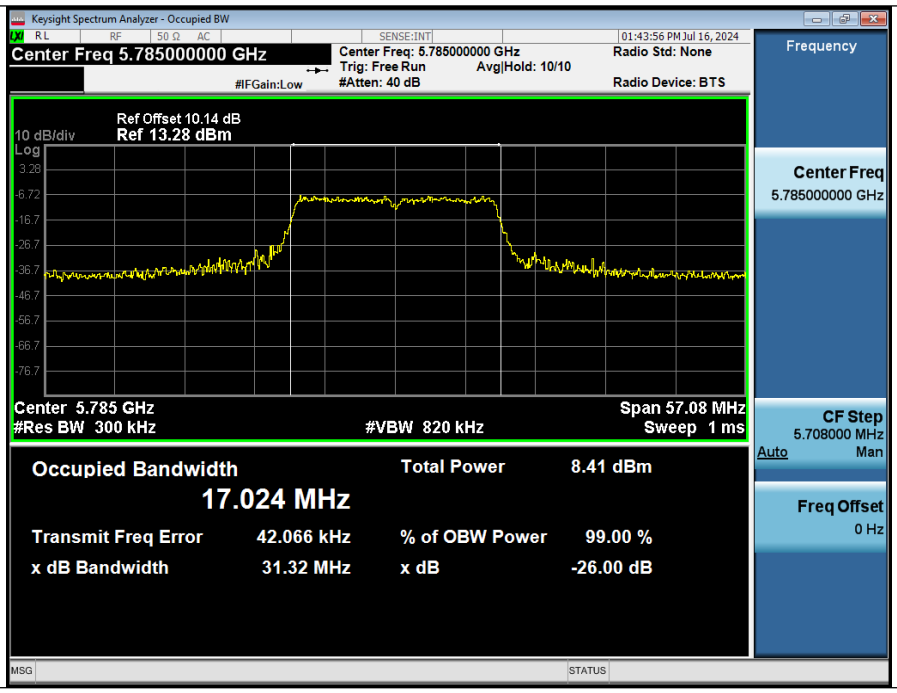

**-26BW_NVNT_ANT1_802_11a_5745**



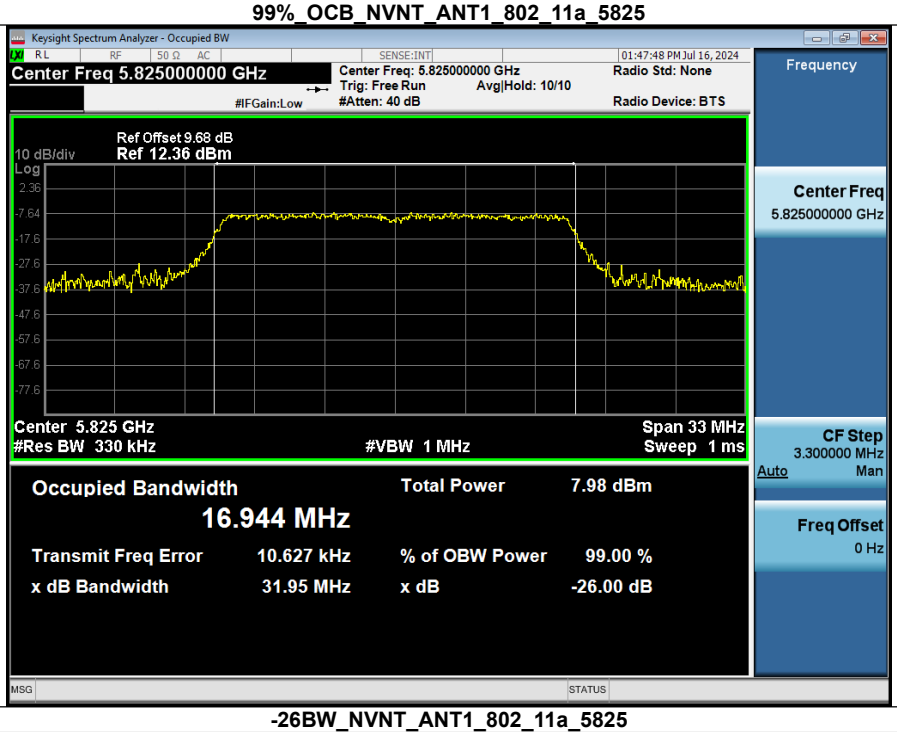

99%_OCB_NVNT_ANT1_802_11a_5785




-26BW_NVNT_ANT1_802_11a_5785




99%_OCB_NVNT_ANT1_802_11a_5825

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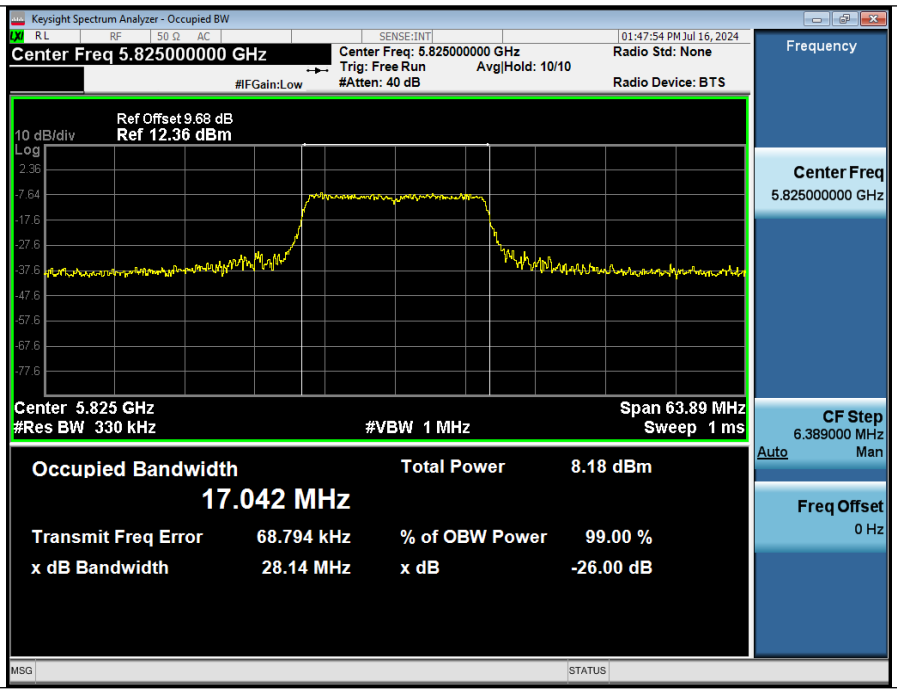
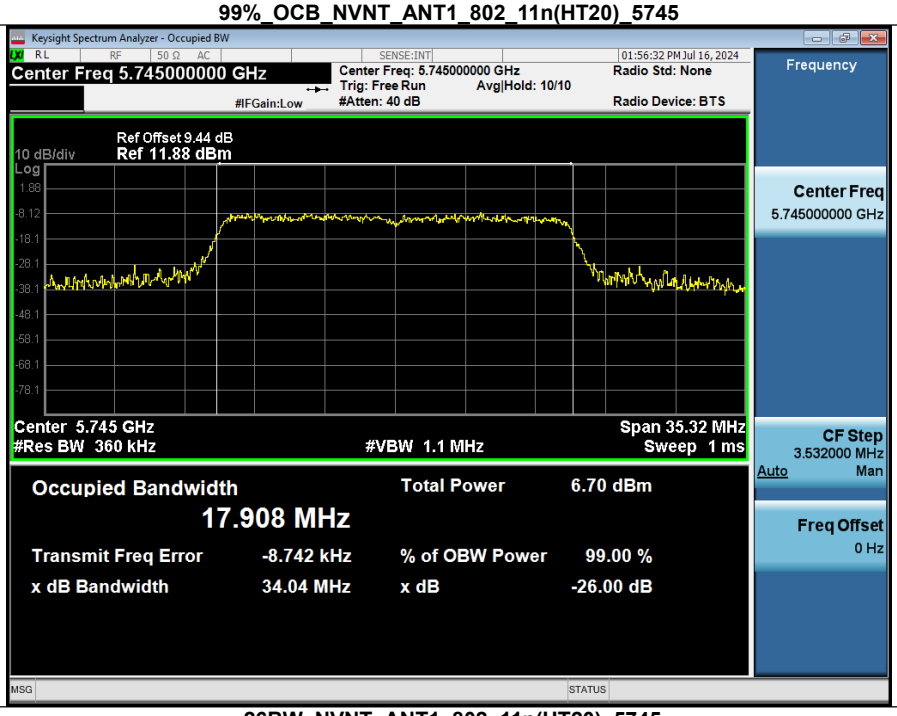
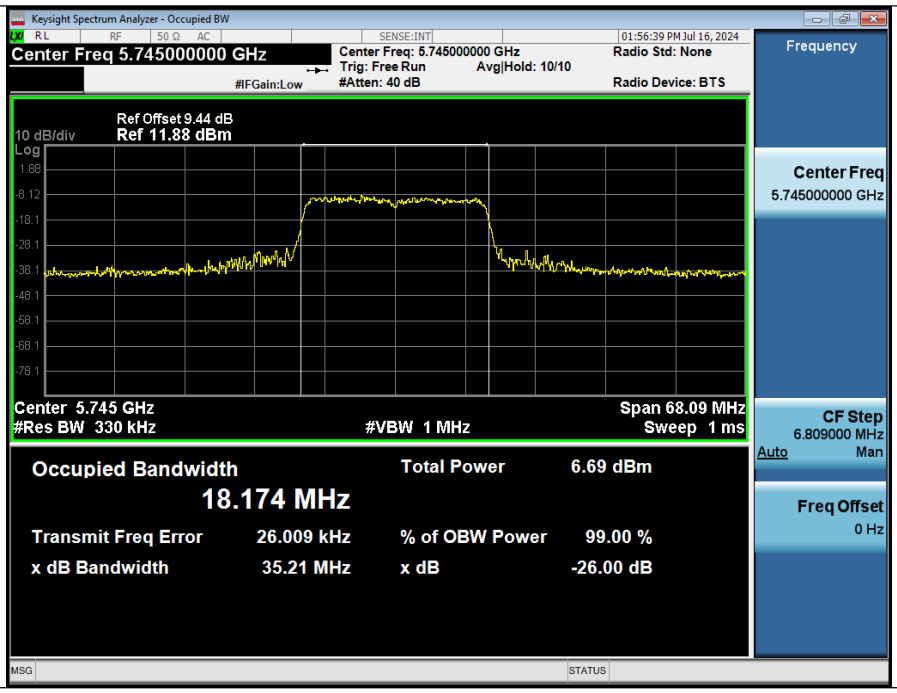


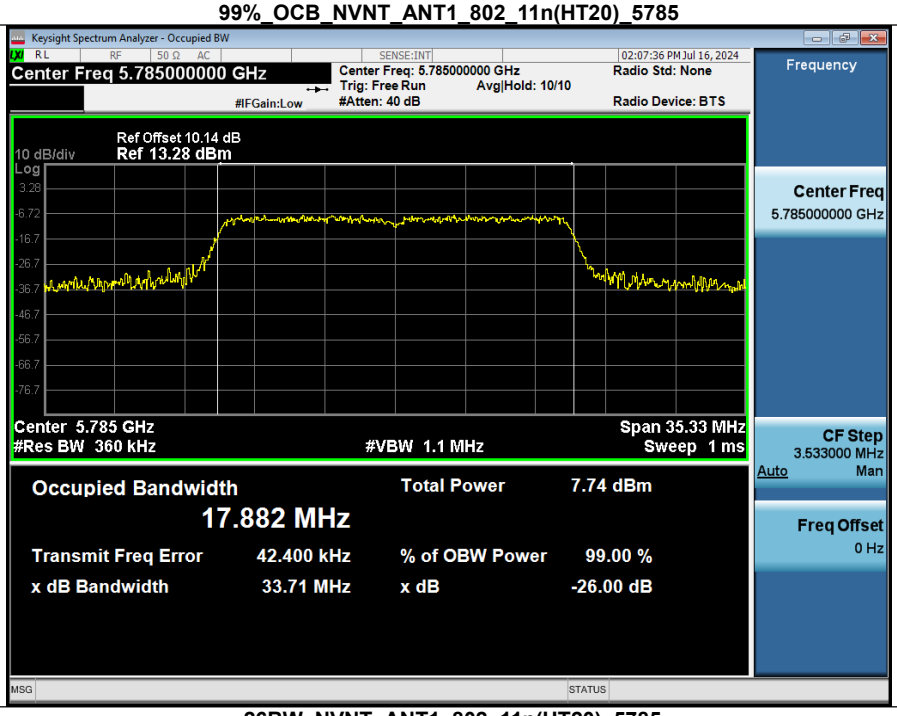

99%_OCB_NVNT_ANT1_802_11n(HT20)_5745




-26BW_NVNT_ANT1_802_11n(HT20)_5745




99%_OCB_NVNT_ANT1_802_11n(HT20)_5785

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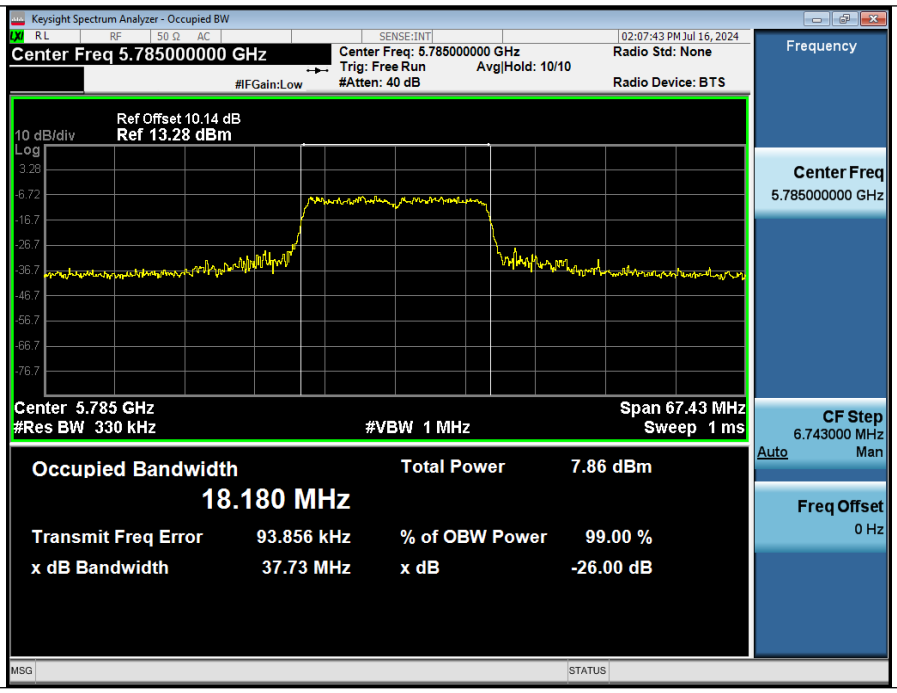
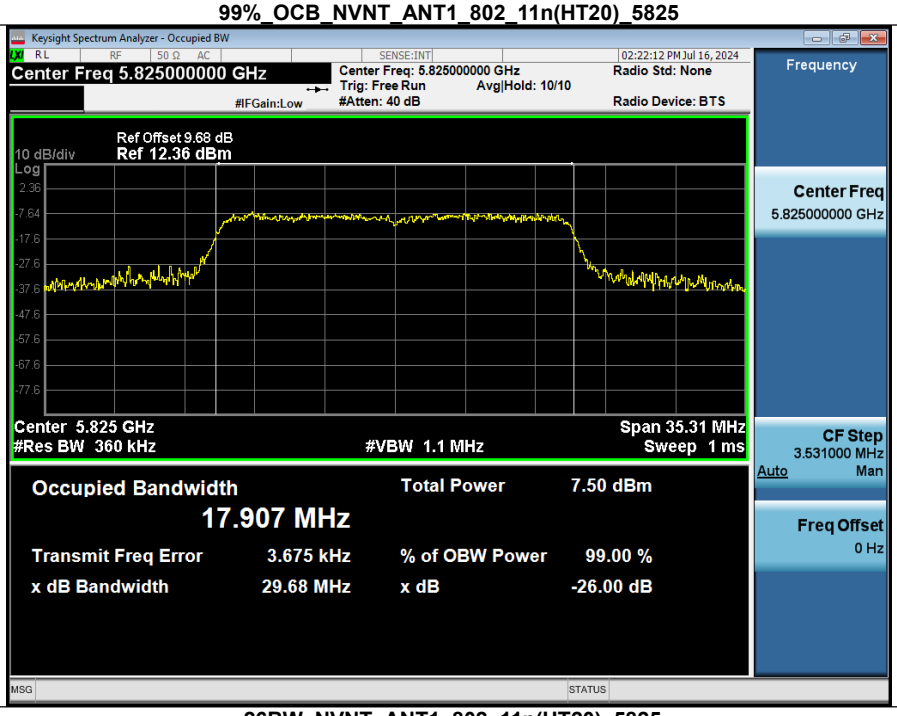



99%_OCB_NVNT_ANT1_802_11n(HT20)_5825

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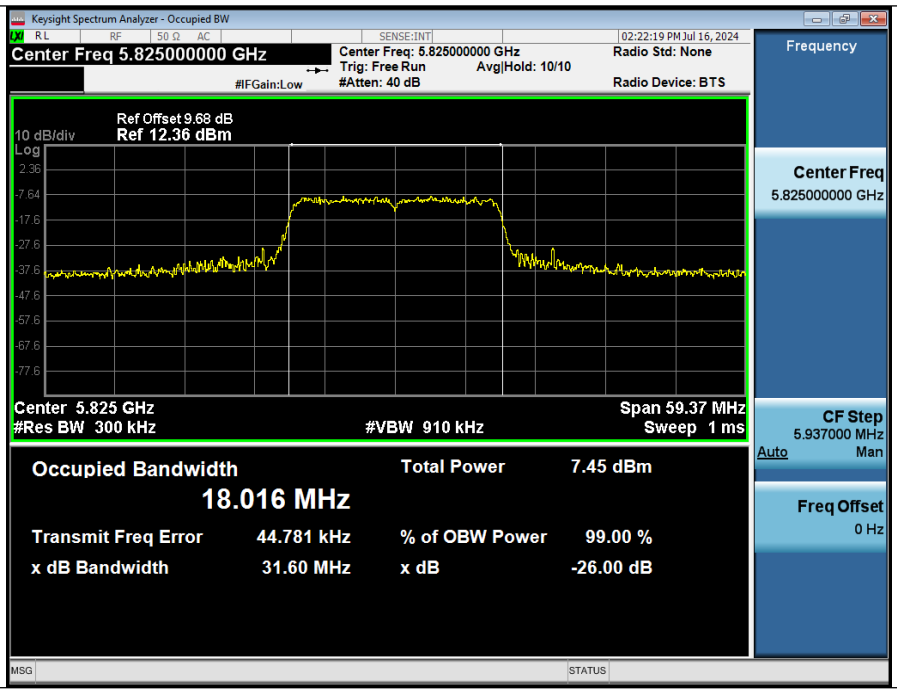
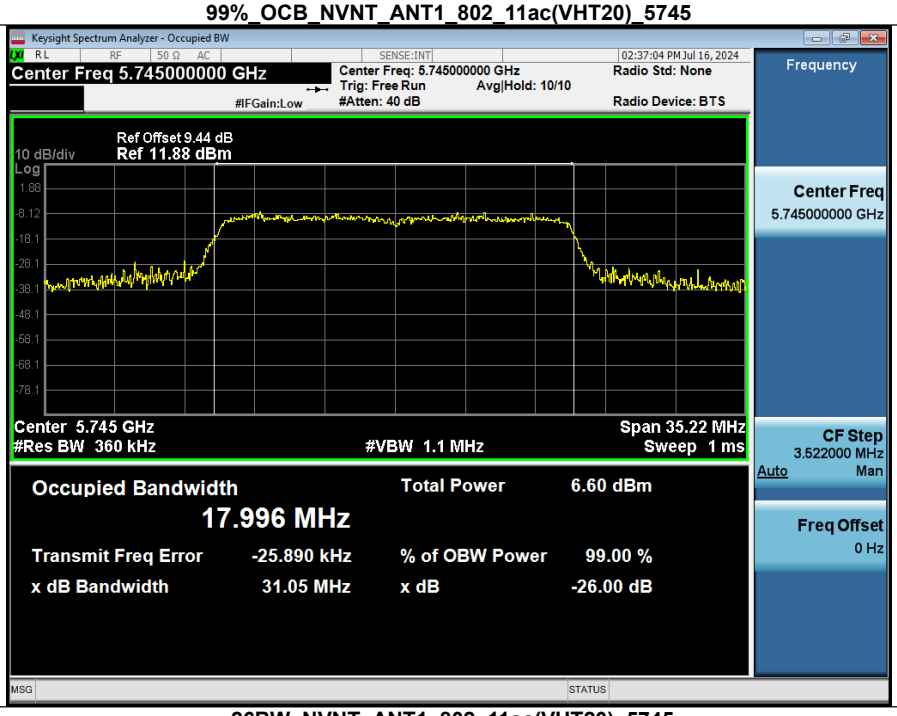



99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5745

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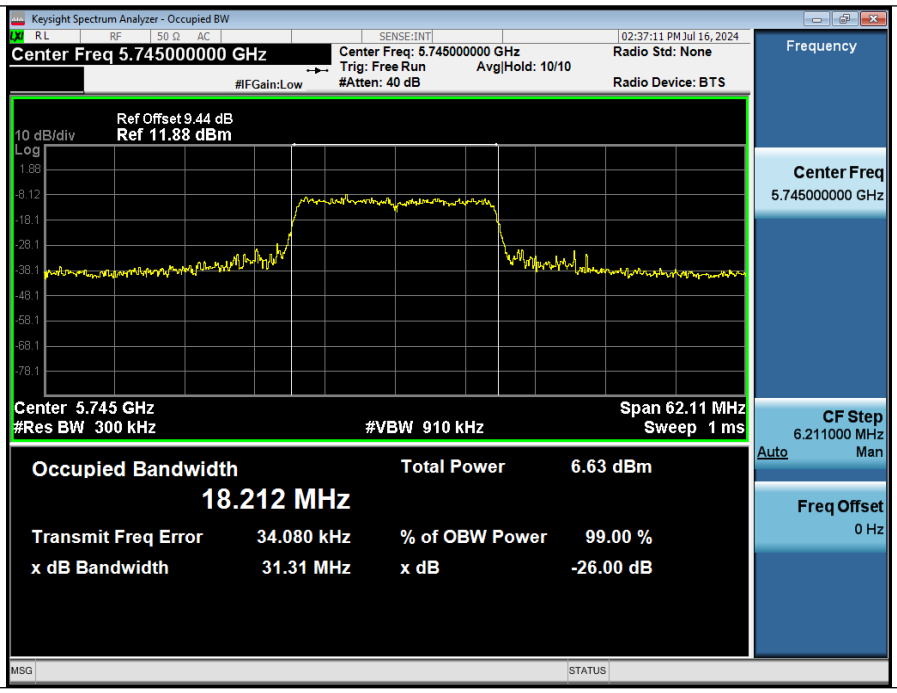
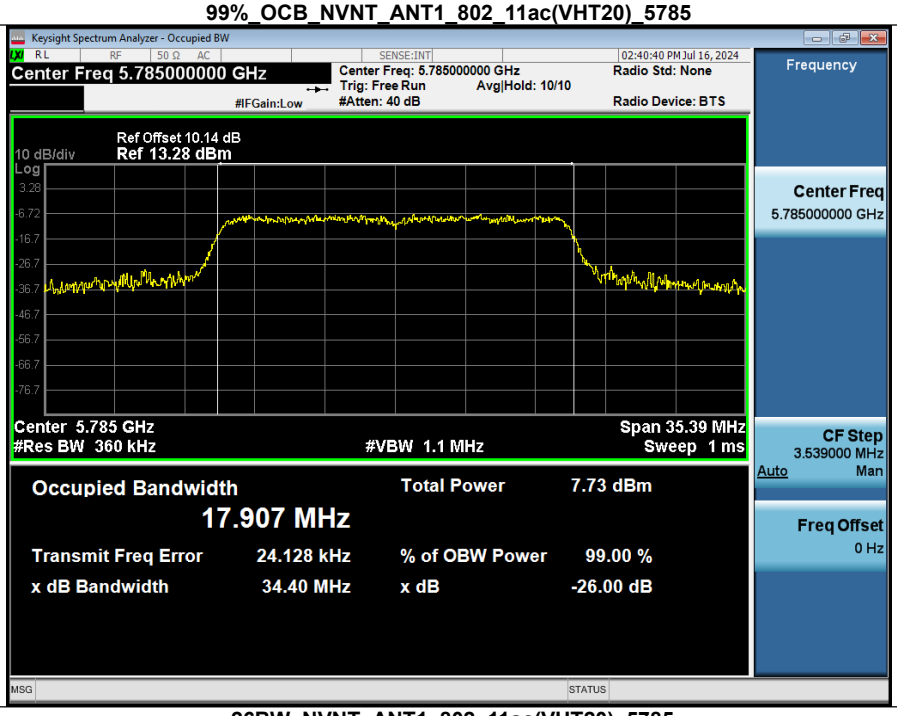



99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5785

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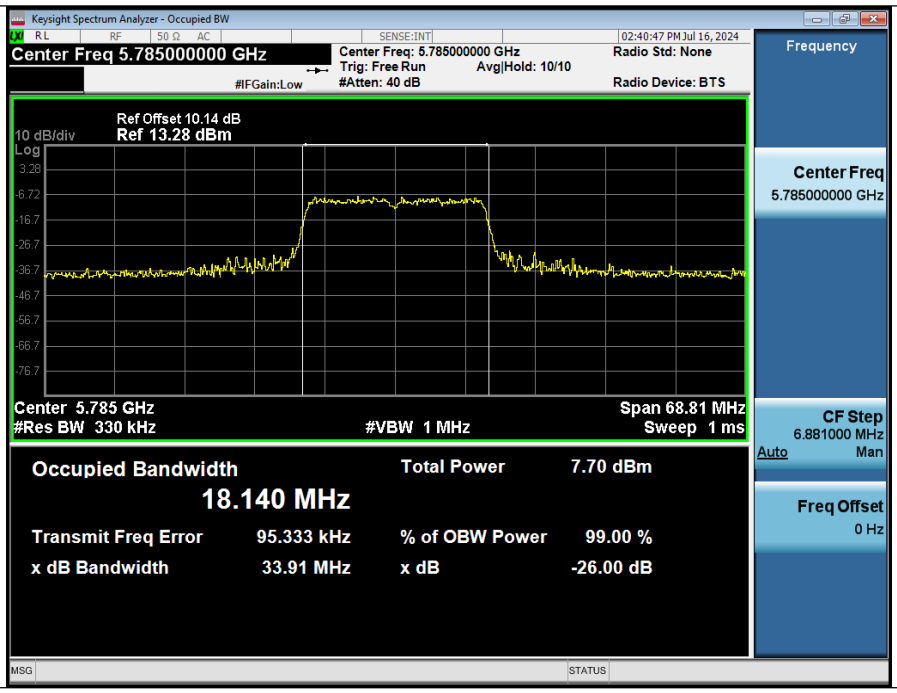
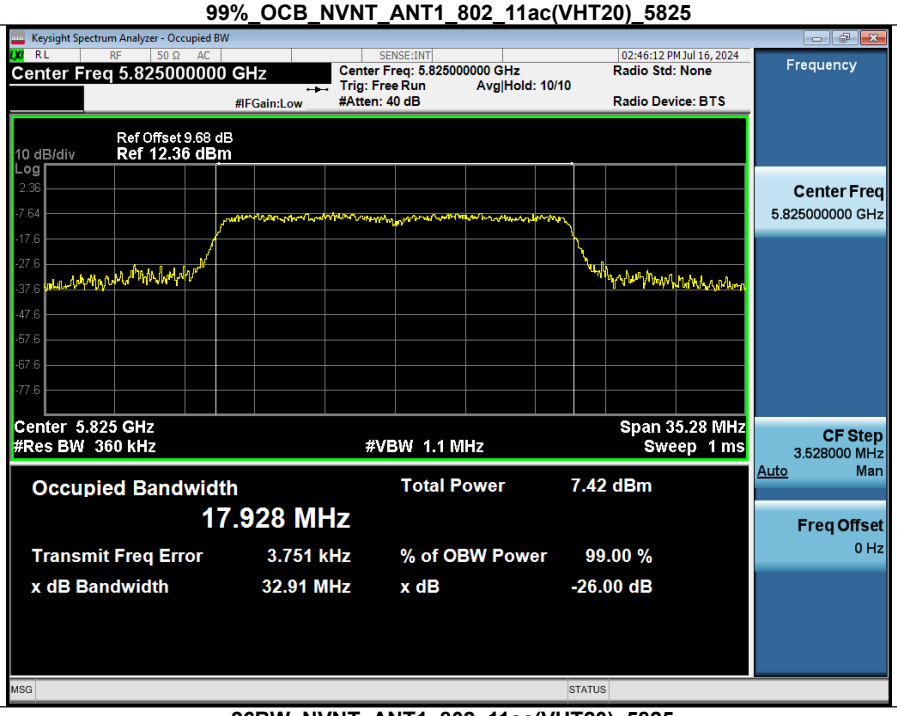
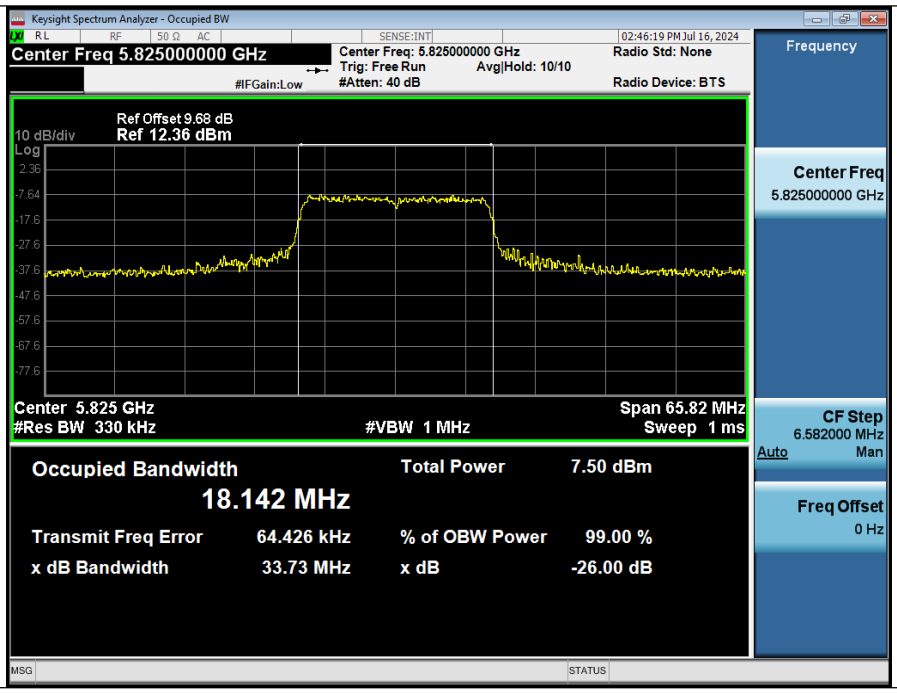


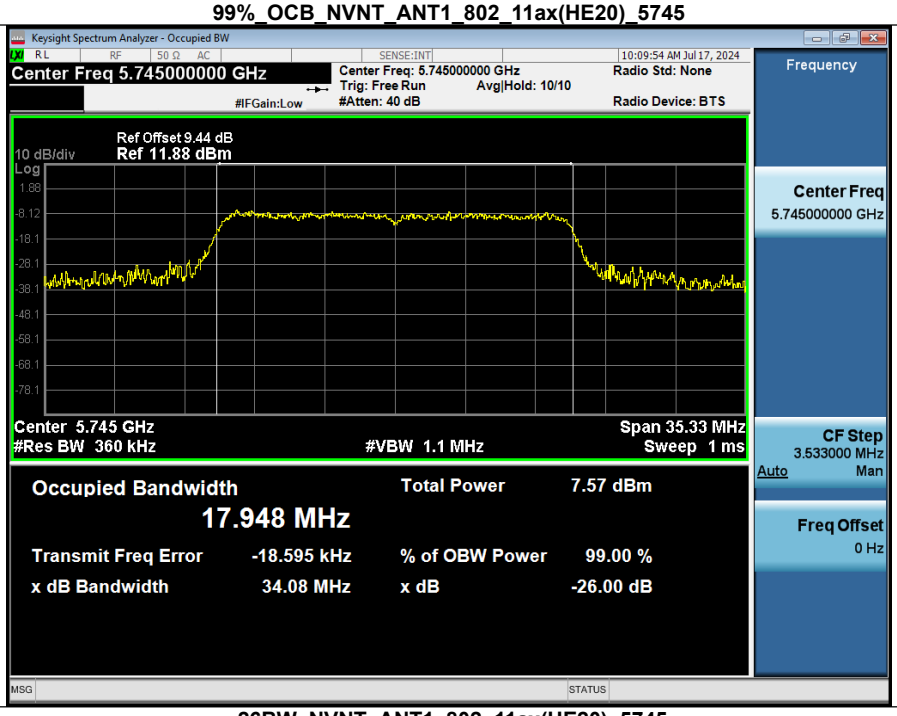

99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5825



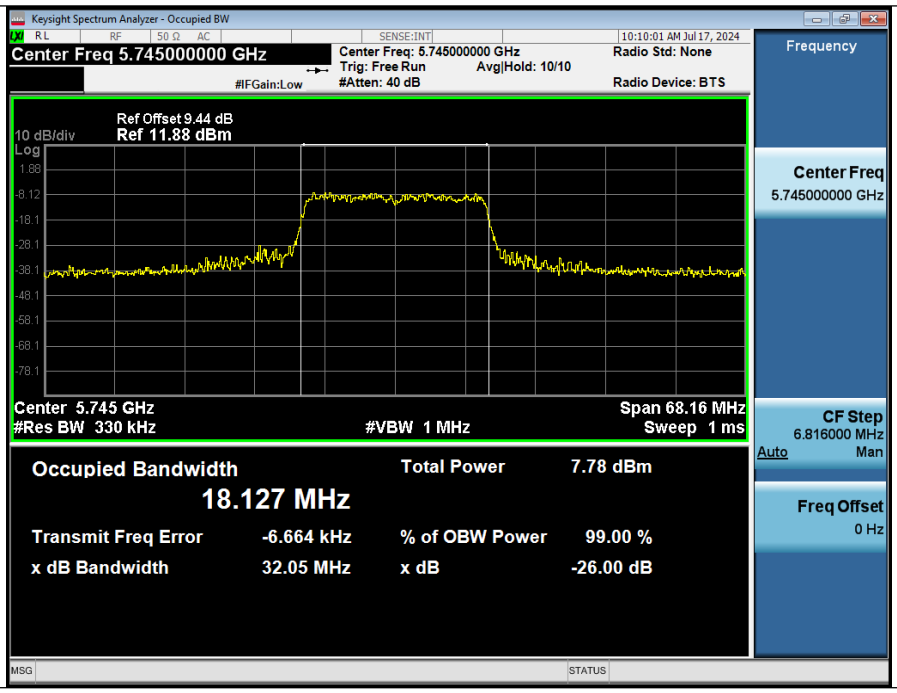

-26BW_NVNT_ANT1_802_11ac(VHT20)_5825



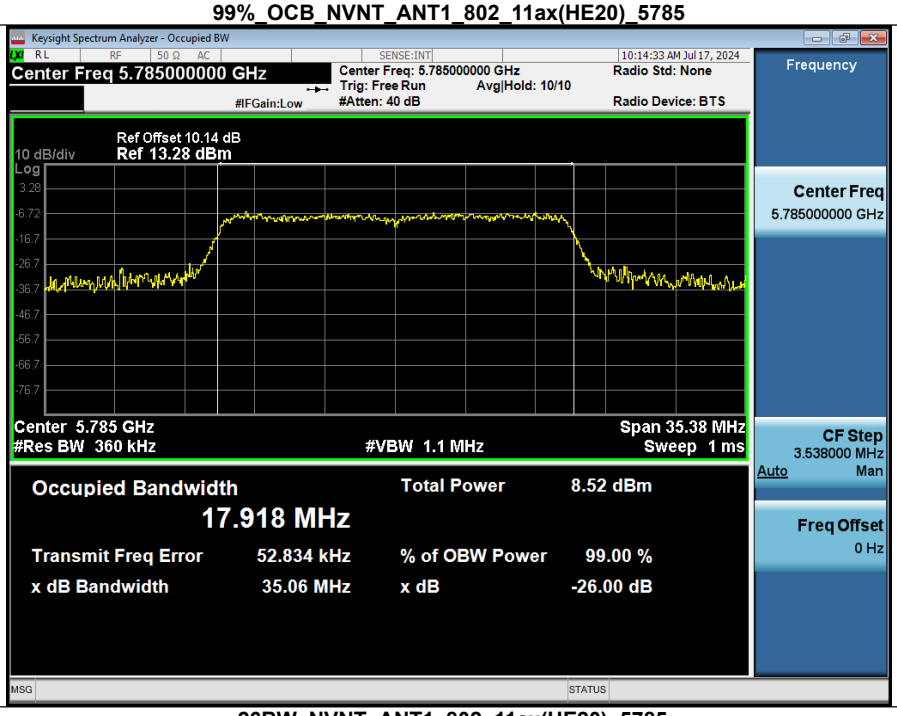

99%_OCB_NVNT_ANT1_802_11ax(HE20)_5745



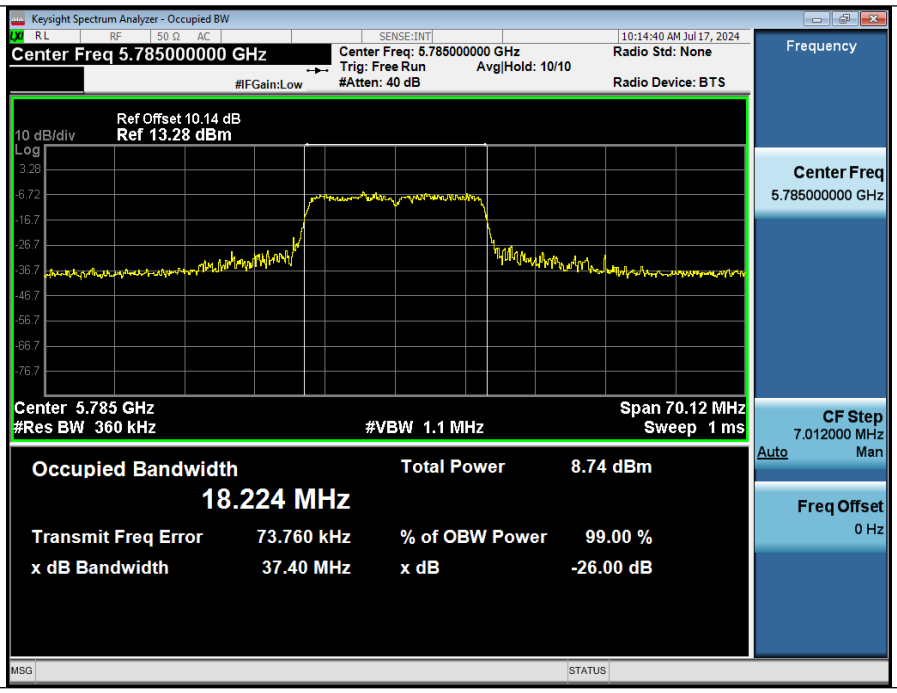

-26BW_NVNT_ANT1_802_11ax(HE20)_5745



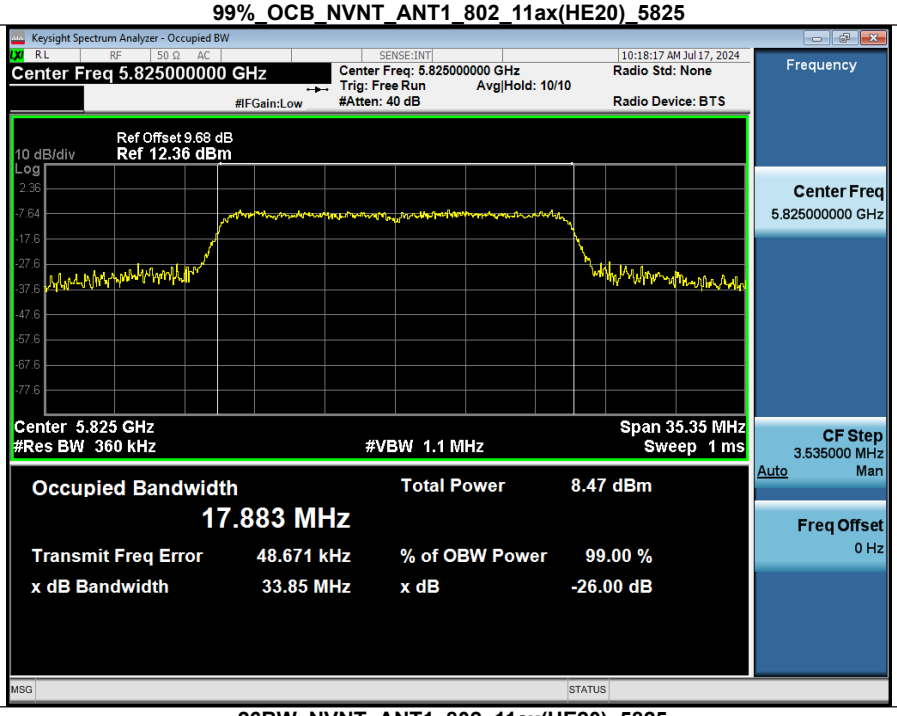

**99%_OCB_NVNT_ANT1_802_11ax(HE20)_5785**



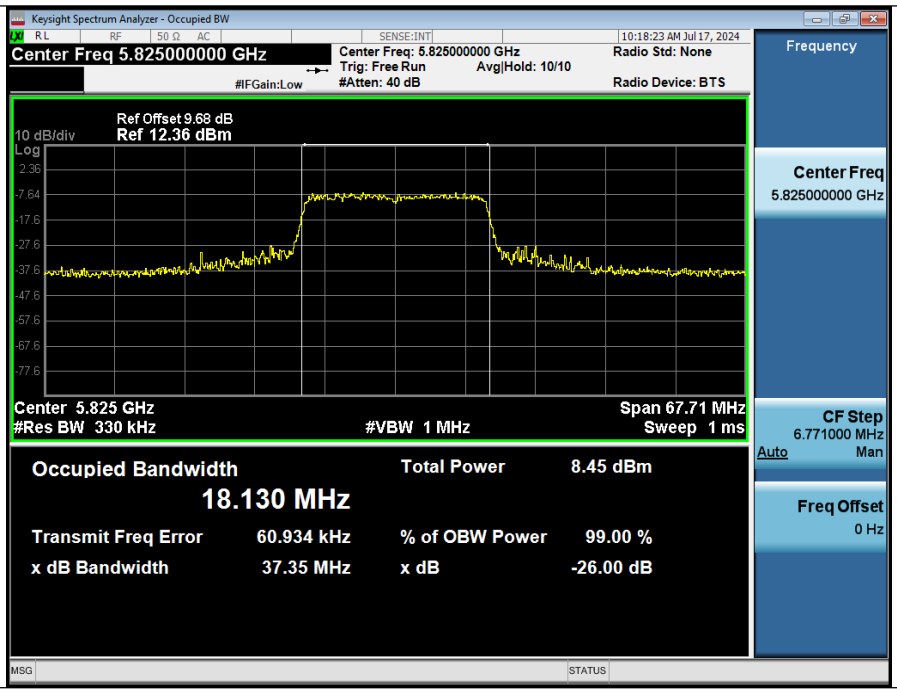

**-26BW_NVNT_ANT1_802_11ax(HE20)_5785**



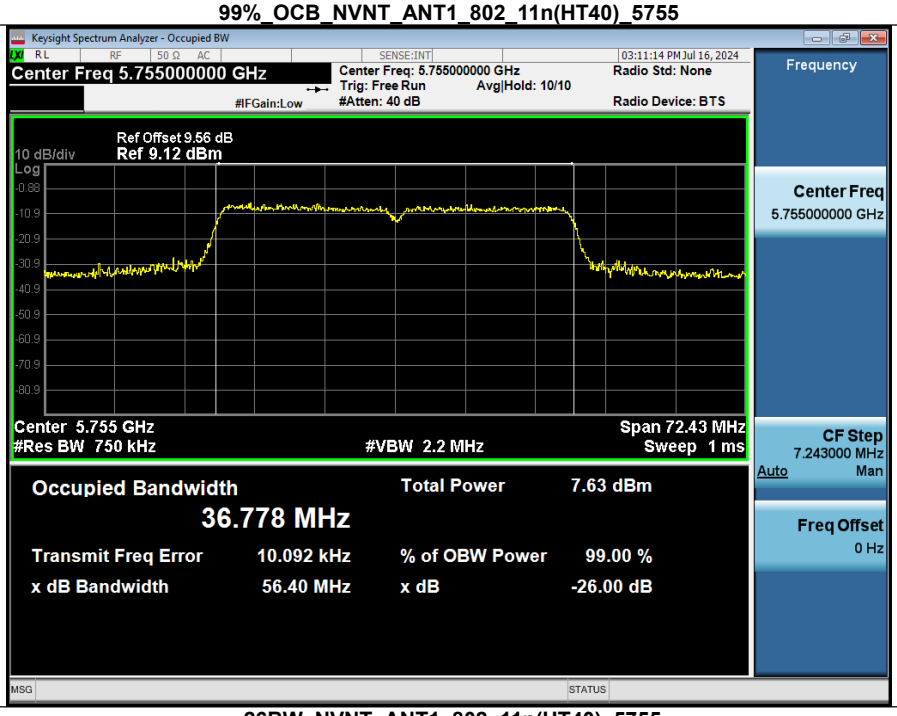

99%_OCB_NVNT_ANT1_802_11ax(HE20)_5825



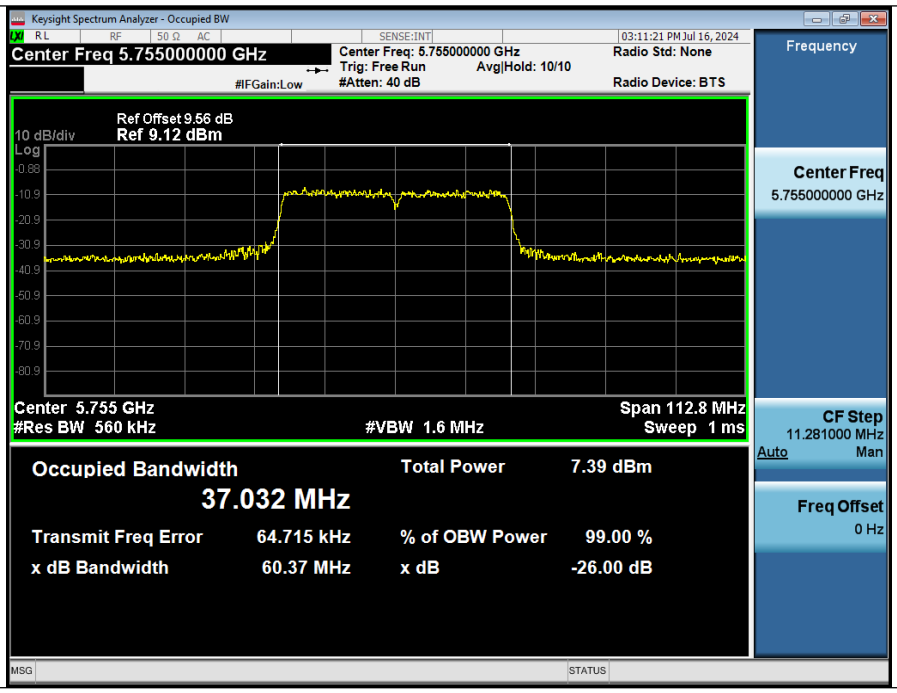

-26BW_NVNT_ANT1_802_11ax(HE20)_5825



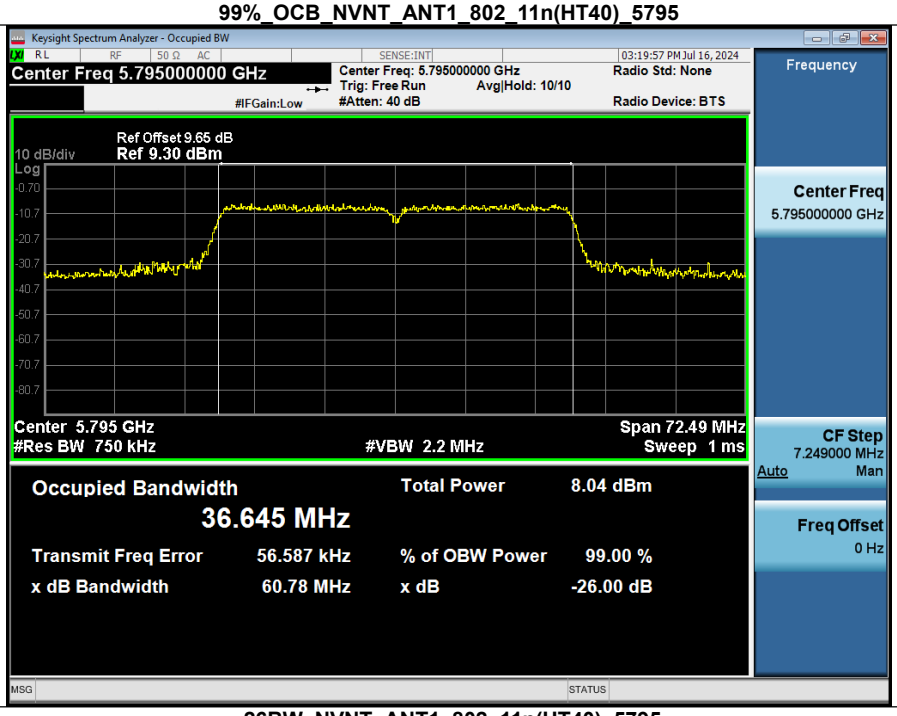

99%_OCB_NVNT_ANT1_802_11n(HT40)_5755



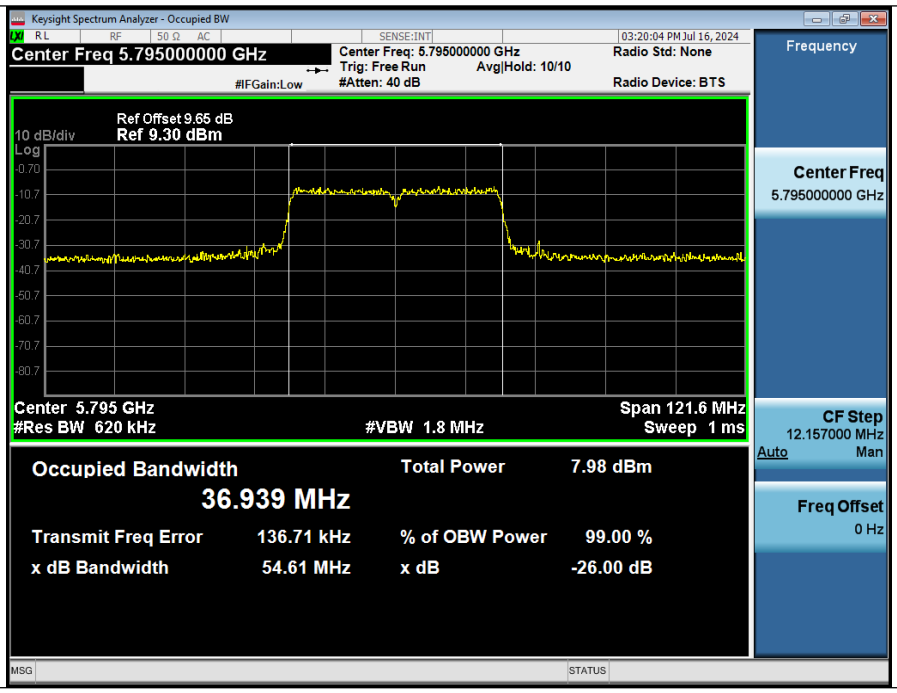

-26BW_NVNT_ANT1_802_11n(HT40)_5755



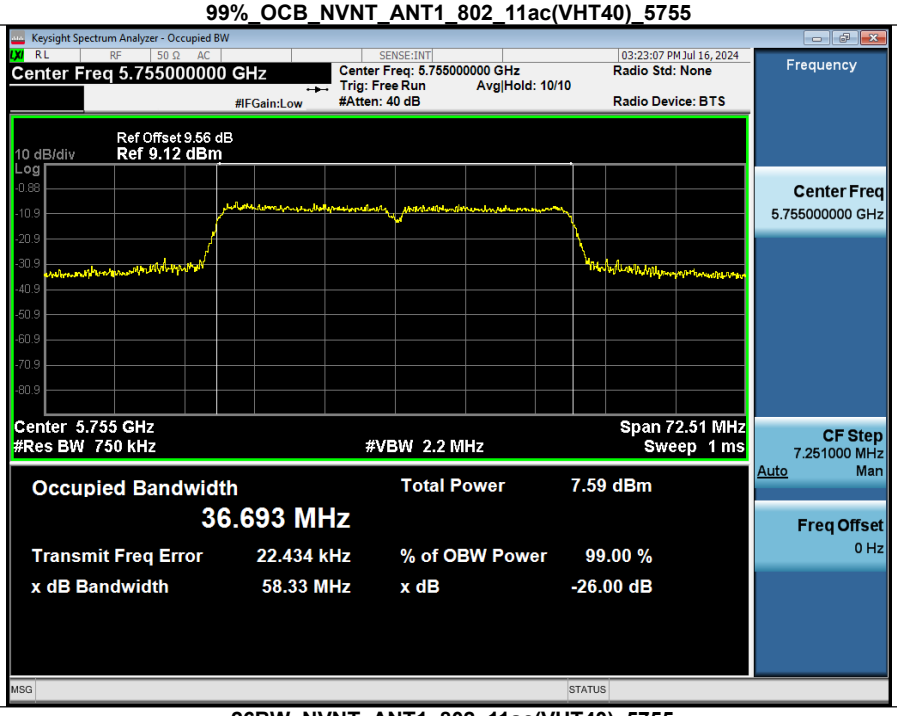

99%_OCB_NVNT_ANT1_802_11n(HT40)_5795



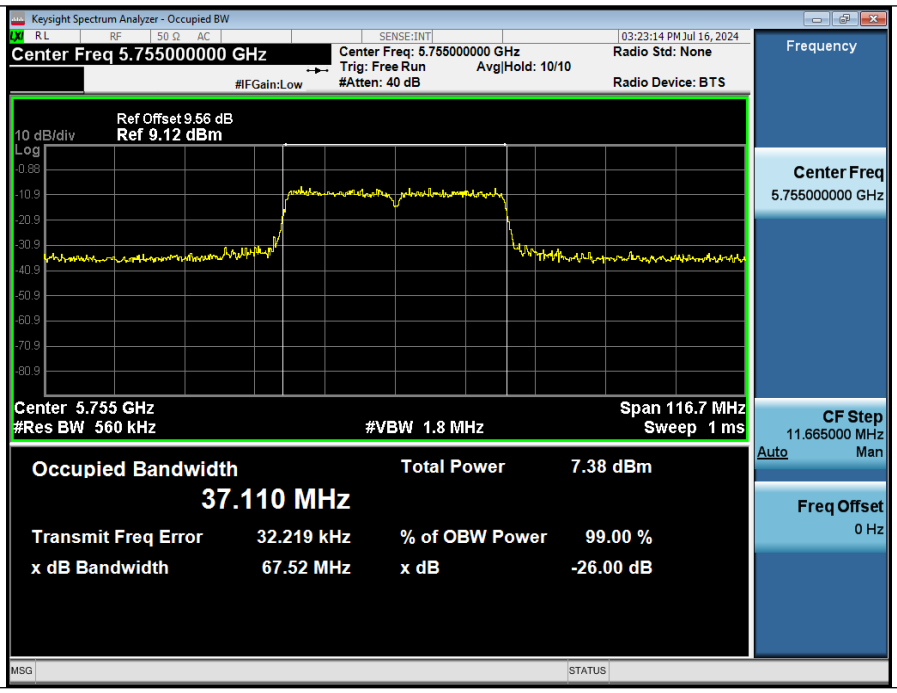

-26BW_NVNT_ANT1_802_11n(HT40)_5795



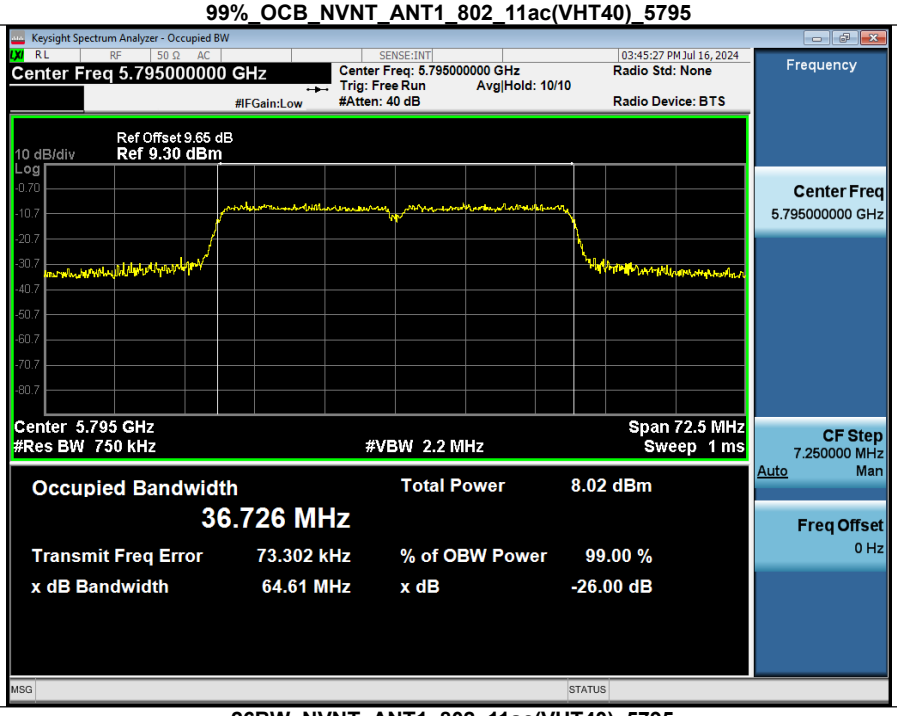

**99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5755**



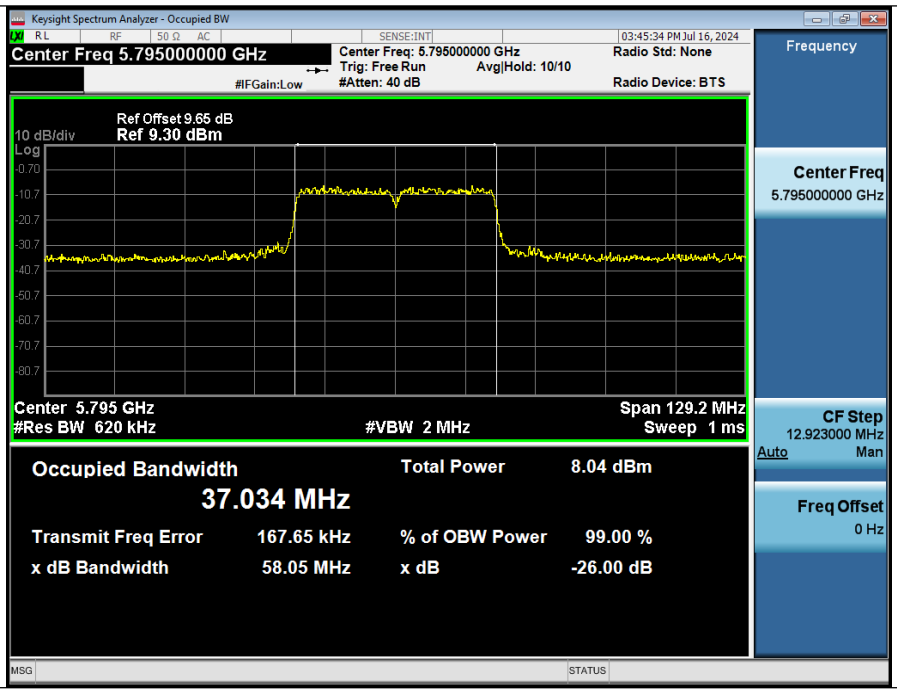

**-26BW_NVNT_ANT1_802_11ac(VHT40)_5755**



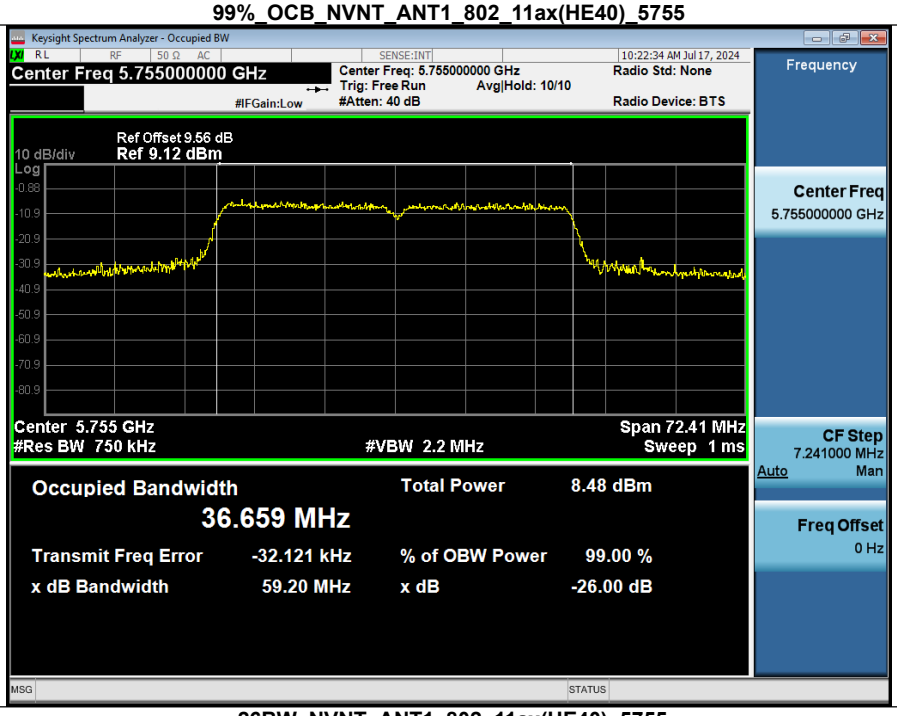

**99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5795**



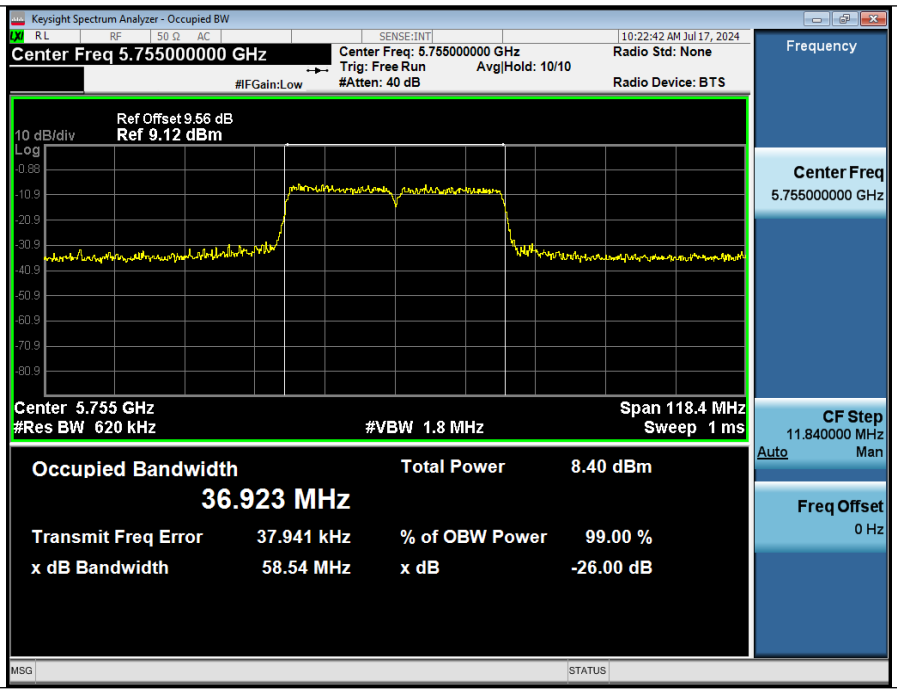

**-26BW_NVNT_ANT1_802_11ac(VHT40)_5795**



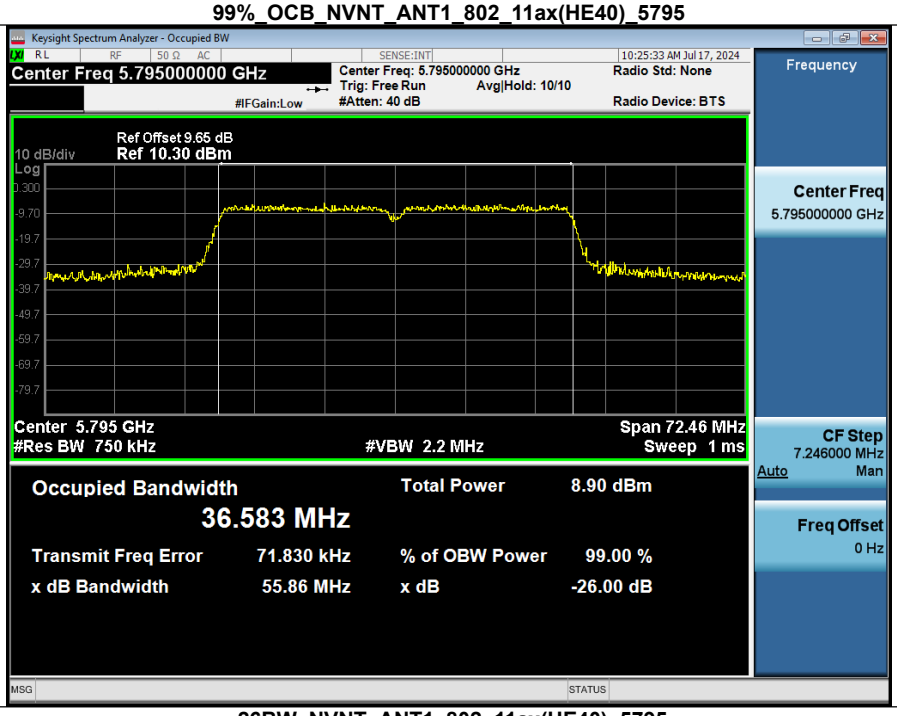

99%_OCB_NVNT_ANT1_802_11ax(HE40)_5755



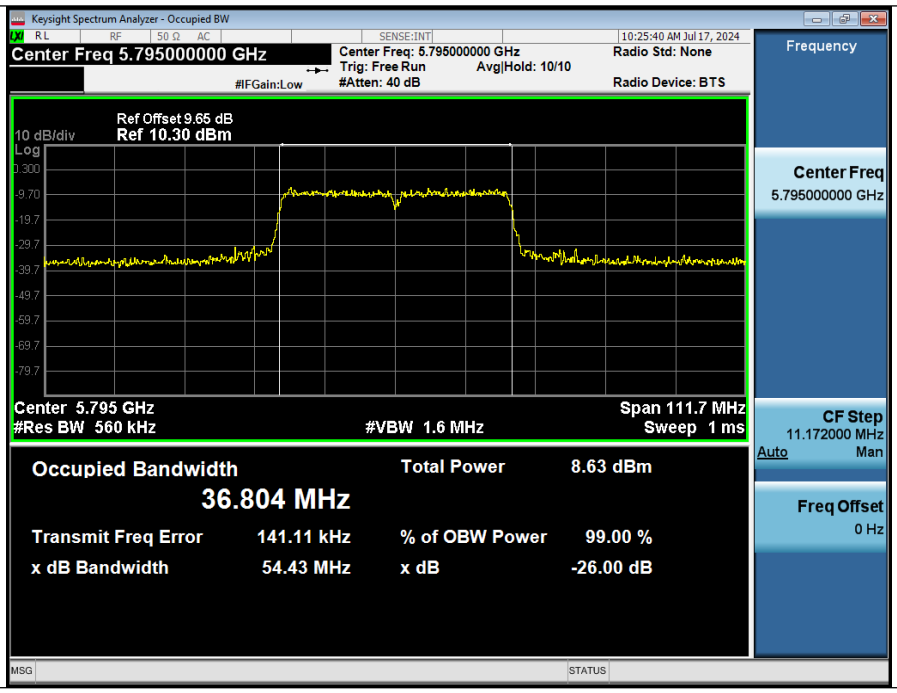

-26BW_NVNT_ANT1_802_11ax(HE40)_5755



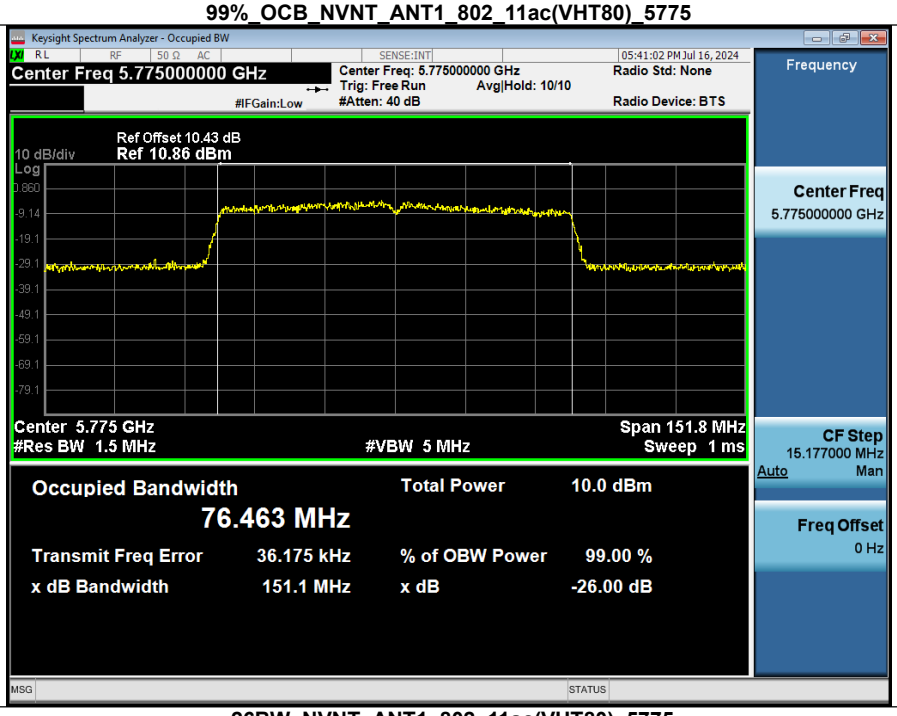

**99%_OCB_NVNT_ANT1_802_11ax(HE40)_5795**



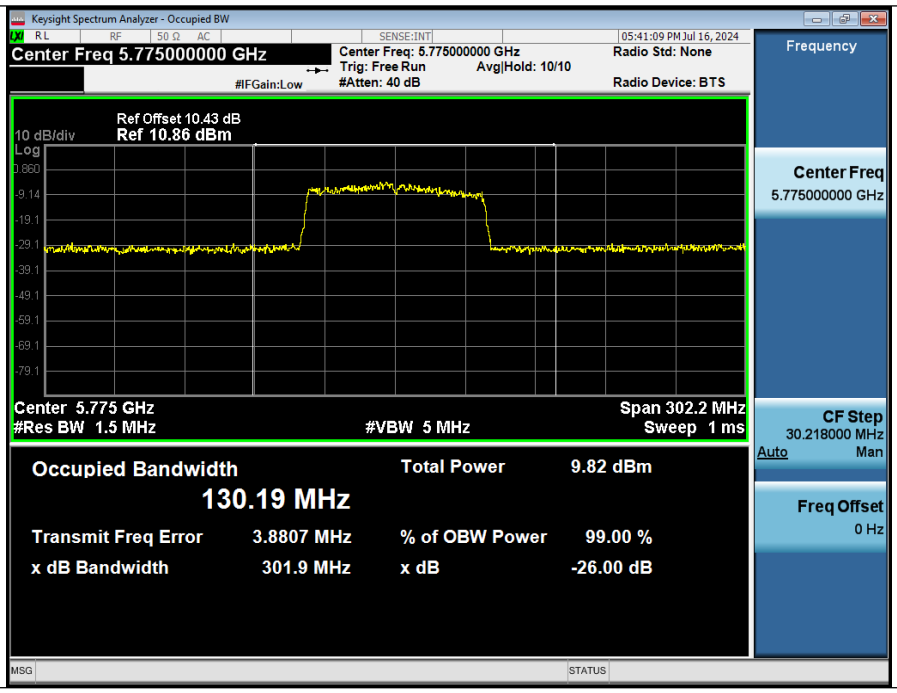

**-26BW_NVNT_ANT1_802_11ax(HE40)_5795**



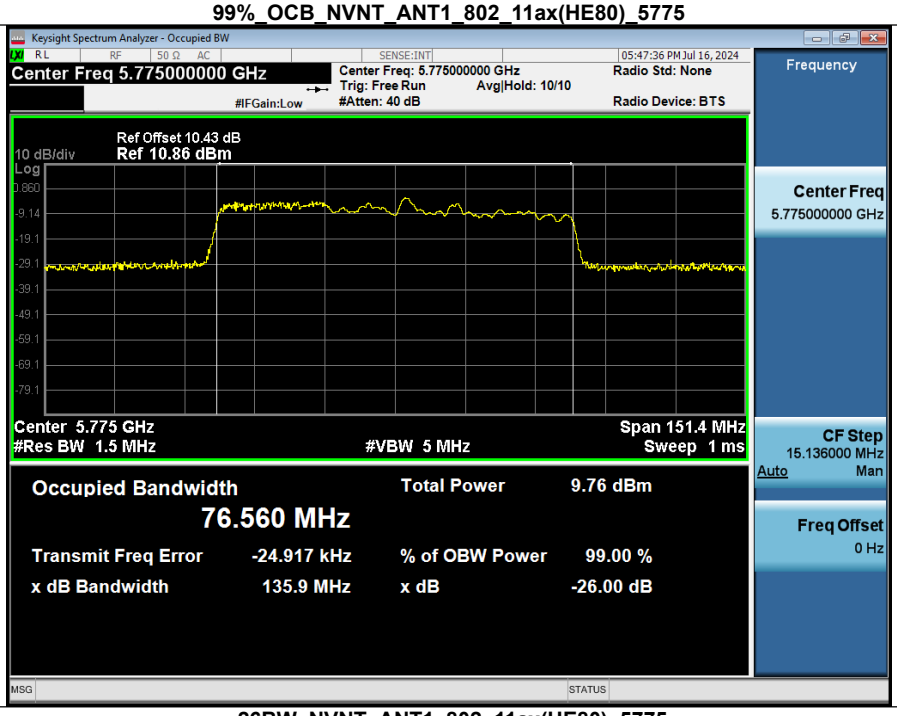

**99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5775**




**-26BW_NVNT_ANT1_802_11ac(VHT80)_5775**




**99%_OCB_NVNT_ANT1_802_11ax(HE80)_5775**



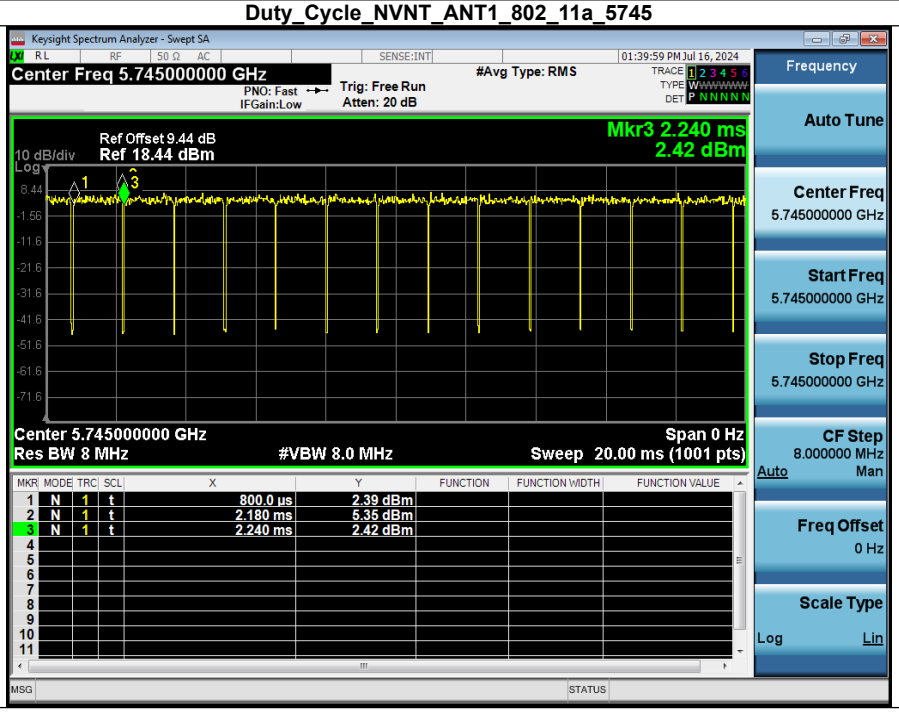

**-26BW_NVNT_ANT1_802_11ax(HE80)_5775**

Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.775000000 GHz
Center Freq: 5.775000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
05:47:43 PM Jul 16, 2024
Frequency
Ref Offset 10.43 dB
10 dB/div
Ref 10.86 dBm
Center Freq
5.775000000 GHz
Center 5.775 GHz
#Res BW 1.3 MHz
#VBW 4 MHz
Span 271.8 MHz
Sweep 1 ms
CF Step
27.181000 MHz
Auto
Man
Occupied Bandwidth
102.20 MHz
Total Power 9.57 dBm
Transmit Freq Error 2.8802 MHz
% of OBW Power 99.00 %
x dB Bandwidth 247.6 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

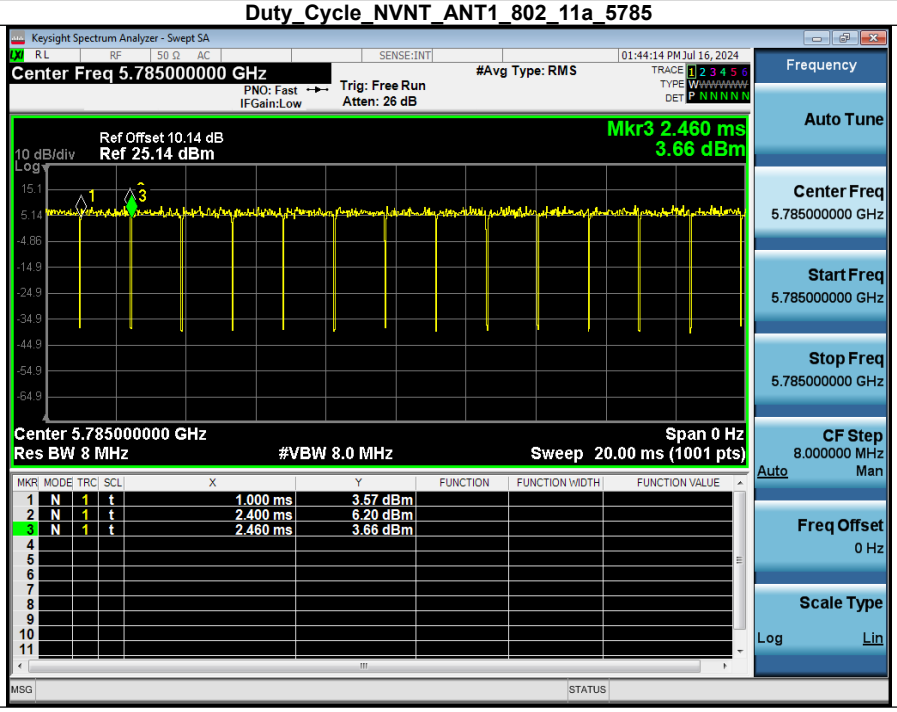
## 3. Duty Cycle

| Condition | Antenna | Modulation | Frequency (MHz) | Duty cycle(%) | Duty_factor |
|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5745.00 | 95.83 | 0.18 |
| NVNT | ANT1 | 802.11a | 5785.00 | 95.89 | 0.18 |
| NVNT | ANT1 | 802.11a | 5825.00 | 97.22 | 0.12 |
| NVNT | ANT1 | 802.11n(HT20) | 5745.00 | 95.16 | 0.22 |
| NVNT | ANT1 | 802.11n(HT20) | 5785.00 | 96.72 | 0.14 |
| NVNT | ANT1 | 802.11n(HT20) | 5825.00 | 96.72 | 0.14 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5745.00 | 96.77 | 0.14 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5785.00 | 96.77 | 0.14 |
| NVNT | ANT1 | 802.11ac(VHT20) | 5825.00 | 95.16 | 0.22 |
| NVNT | ANT1 | 802.11ax(HE20) | 5745.00 | 96.72 | 0.14 |
| NVNT | ANT1 | 802.11ax(HE20) | 5785.00 | 95.16 | 0.22 |
| NVNT | ANT1 | 802.11ax(HE20) | 5825.00 | 95.16 | 0.22 |
| NVNT | ANT1 | 802.11n(HT40) | 5755.00 | 90.63 | 0.43 |
| NVNT | ANT1 | 802.11n(HT40) | 5795.00 | 93.75 | 0.28 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5755.00 | 90.91 | 0.41 |
| NVNT | ANT1 | 802.11ac(VHT40) | 5795.00 | 90.91 | 0.41 |
| NVNT | ANT1 | 802.11ax(HE40) | 5755.00 | 90.63 | 0.43 |
| NVNT | ANT1 | 802.11ax(HE40) | 5795.00 | 90.63 | 0.43 |
| NVNT | ANT1 | 802.11ac(VHT80) | 5775.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11ax(HE80) | 5775.00 | 100 | 0.00 |

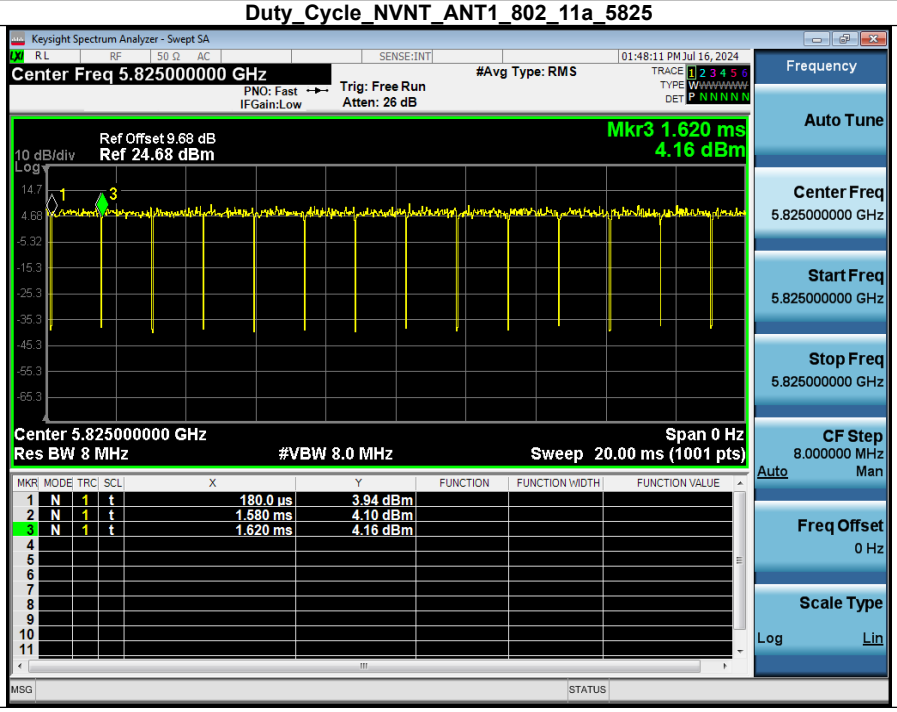
**Duty_Cycle_NVNT_ANT1_802_11a_5745**



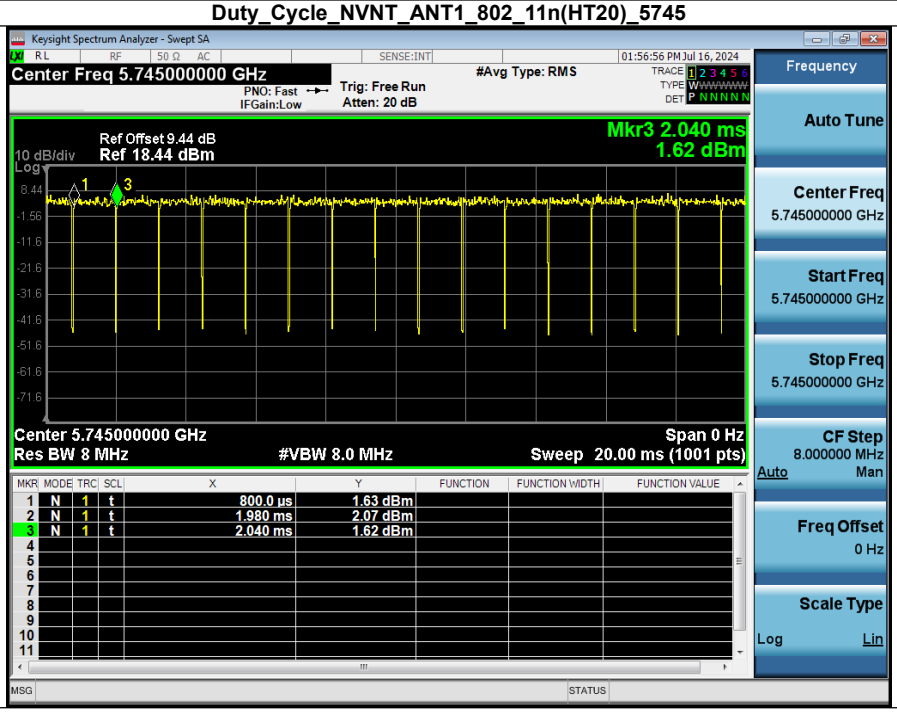
**Duty_Cycle_NVNT_ANT1_802_11a_5785**



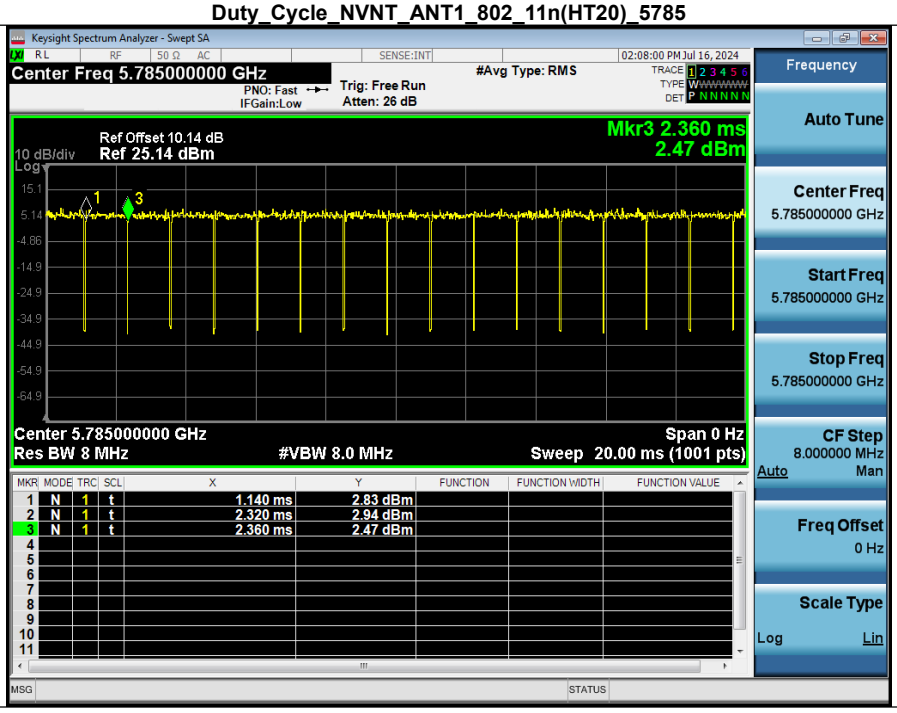

**Duty_Cycle_NVNT_ANT1_802_11a_5825**



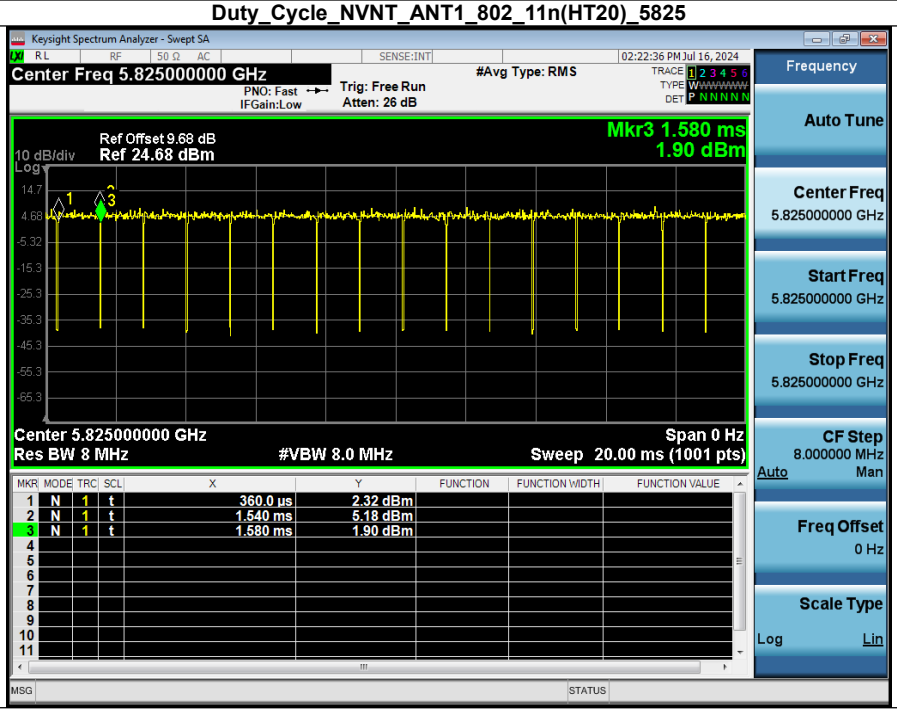
**Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5745**



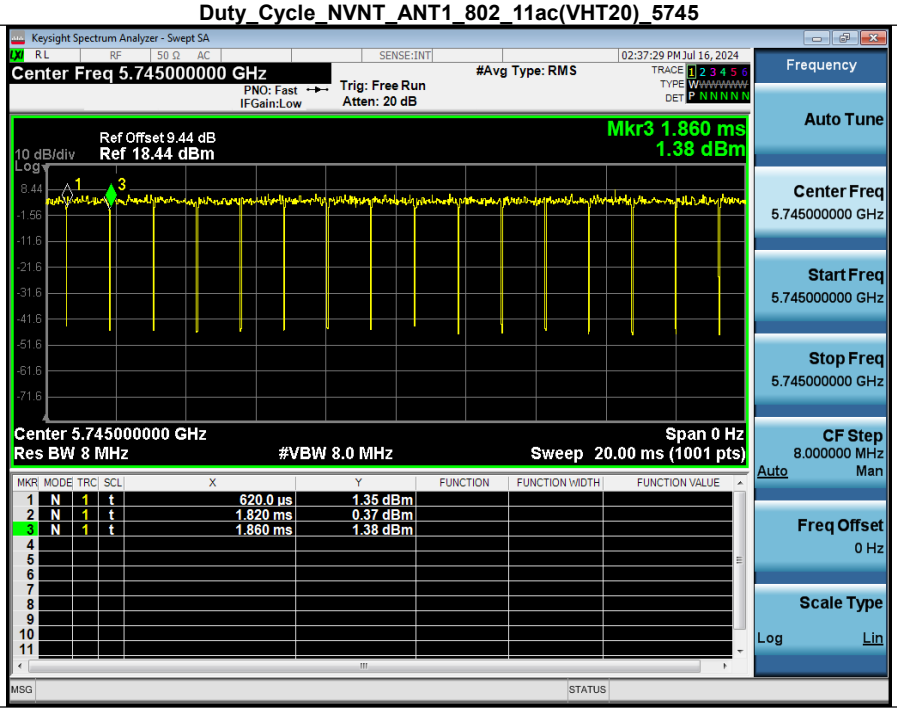

**Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5785**



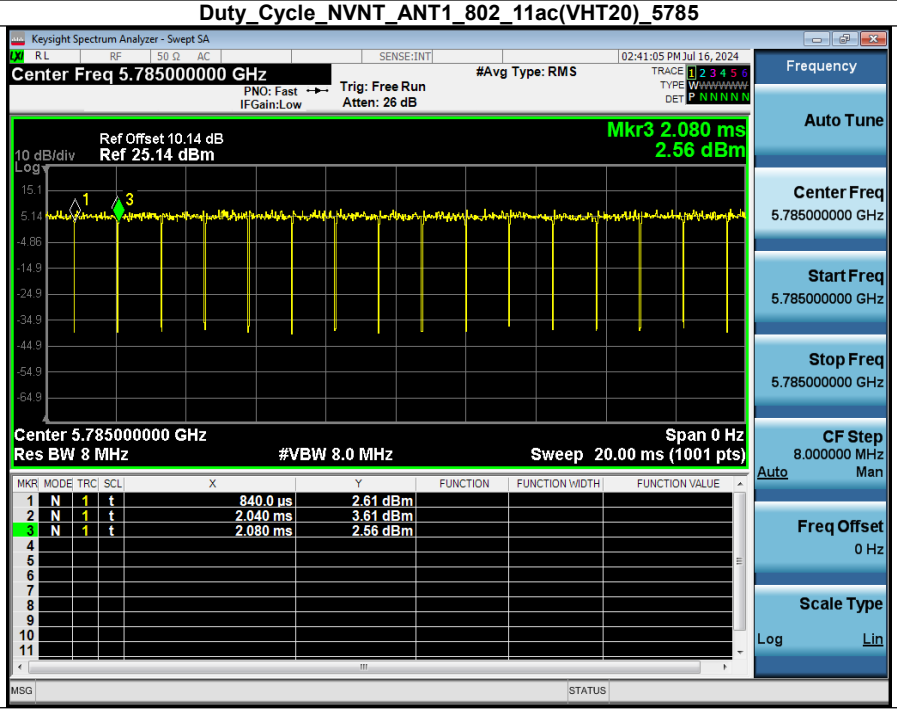
**Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5825**



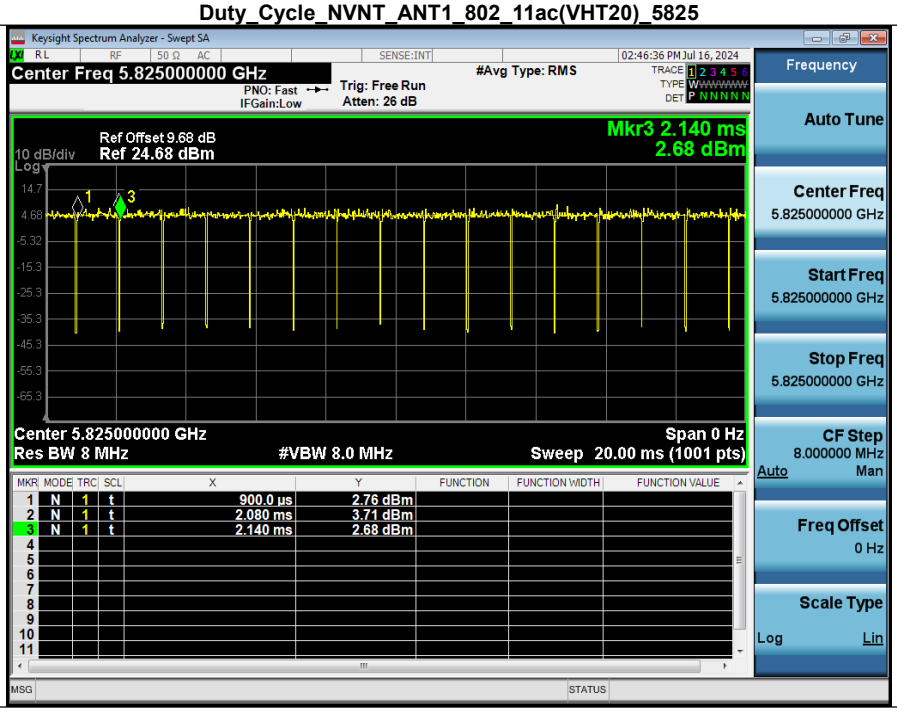

**Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5745**



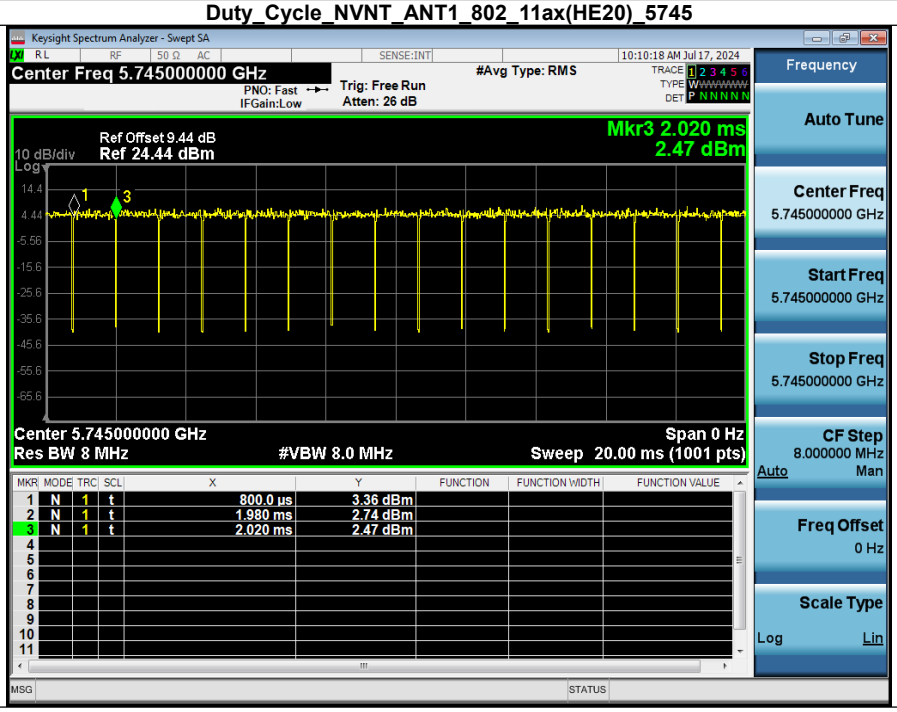
**Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5785**



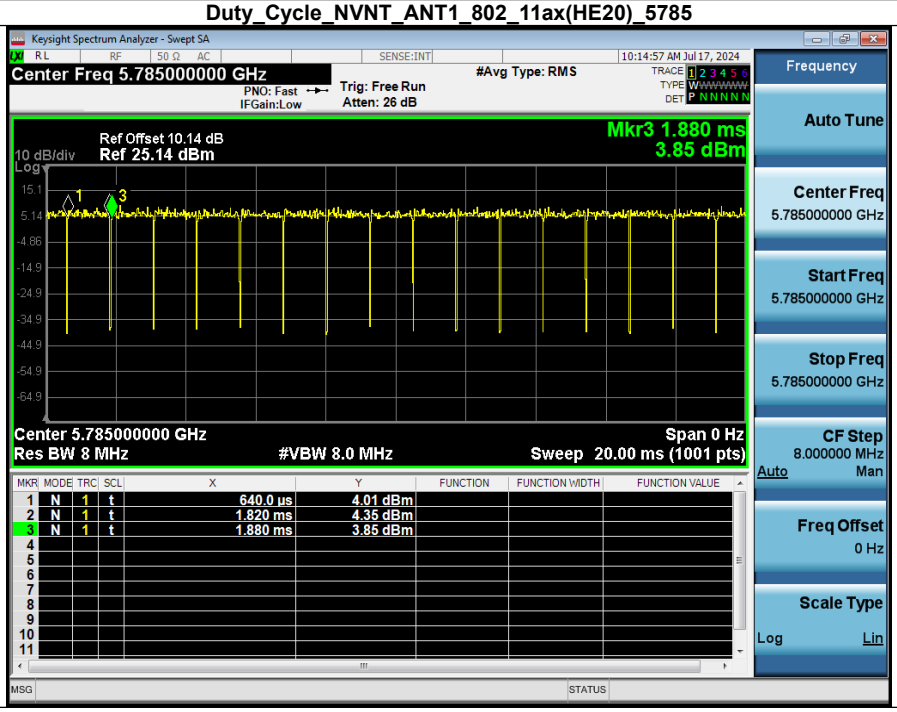

**Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5825**



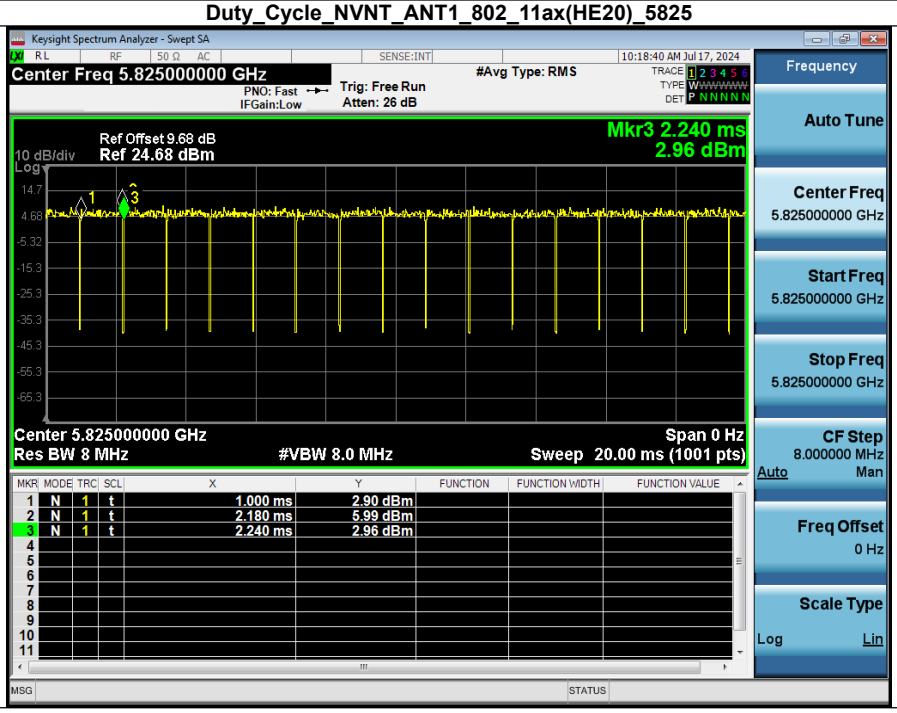
**Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_5745**



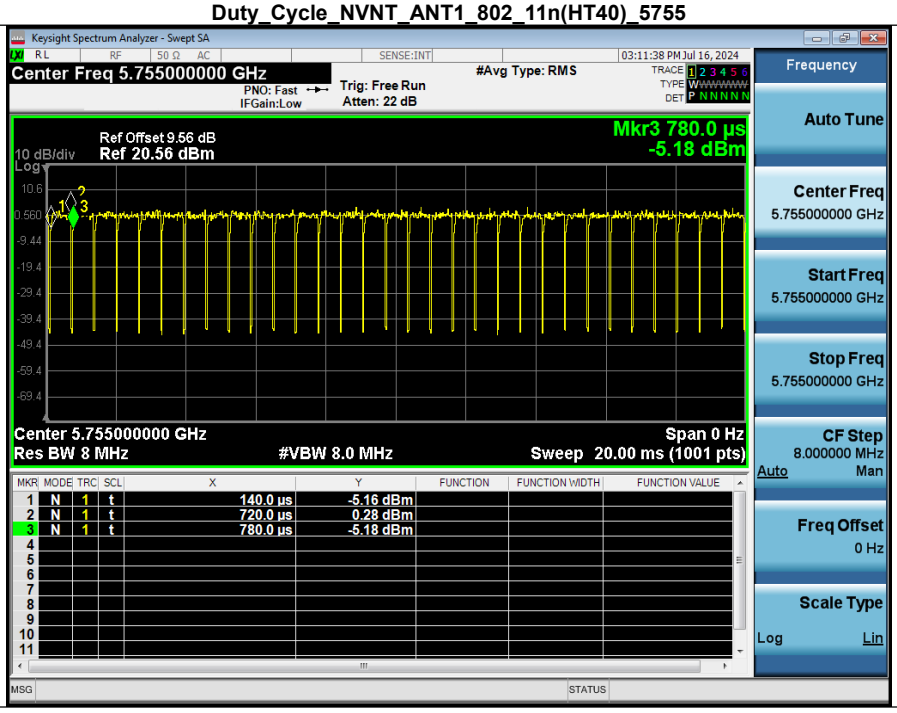

**Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_5785**



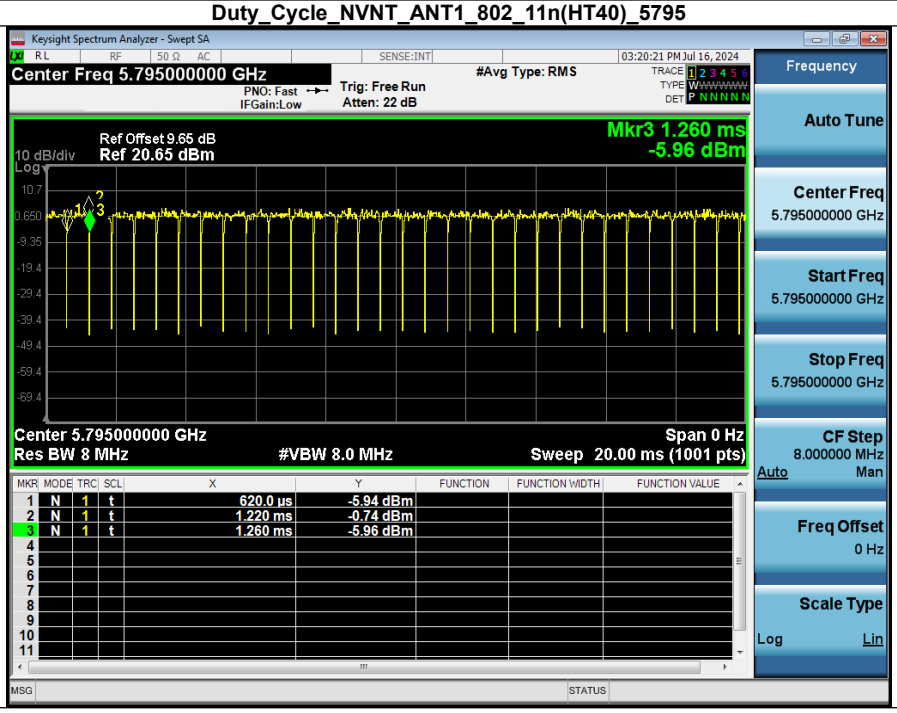
**Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_5825**



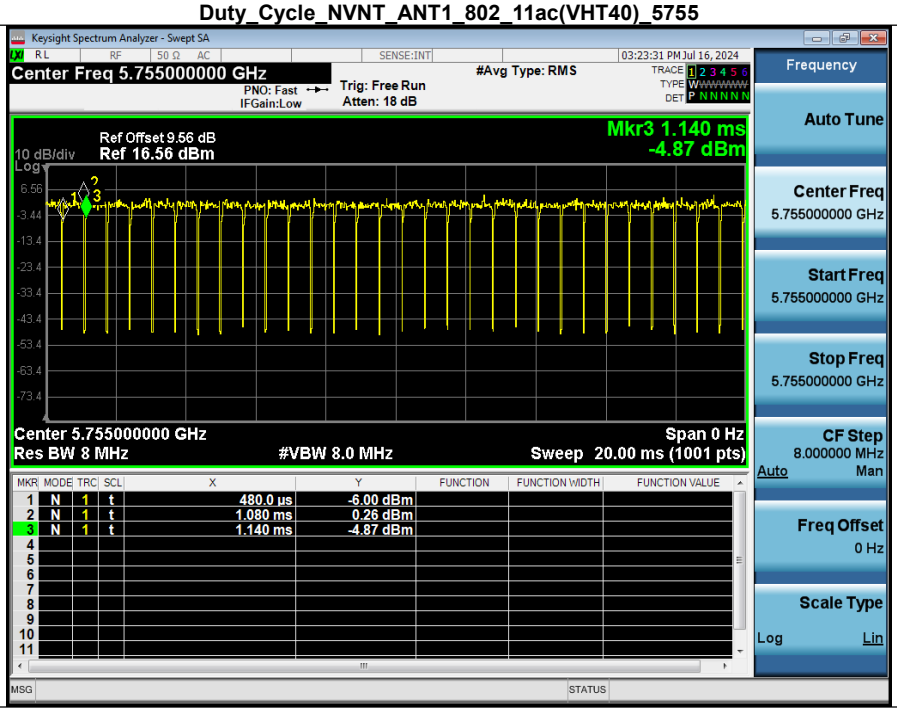

**Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5755**



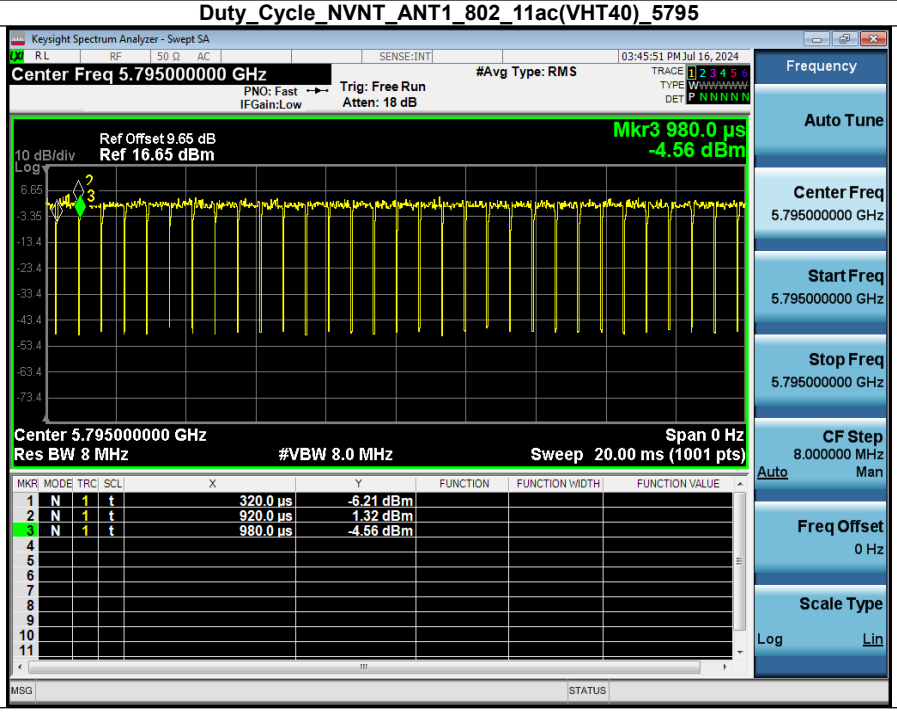
**Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5795**



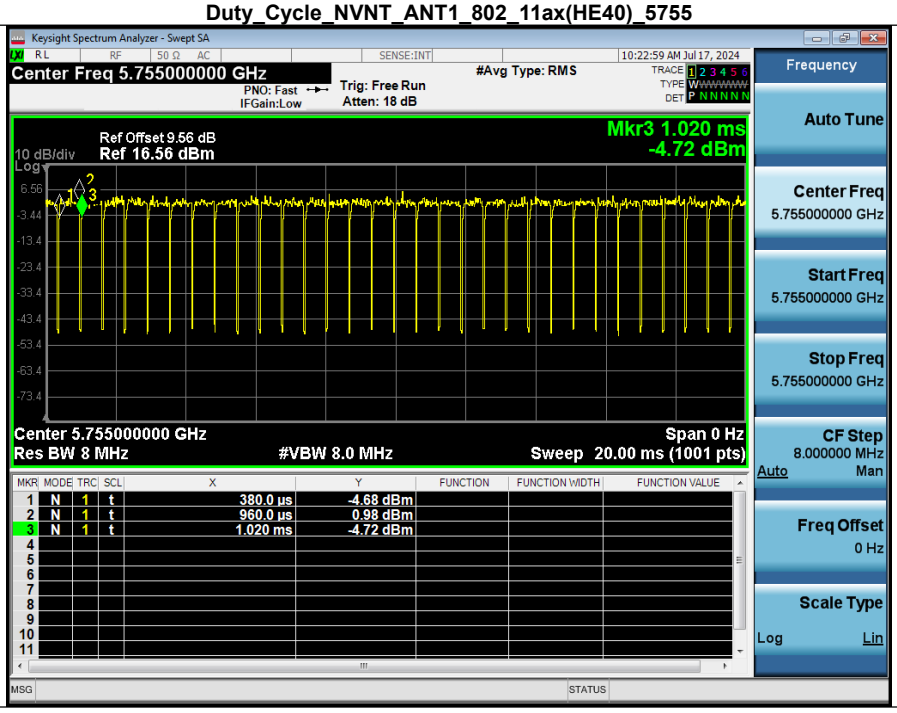

**Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5755**



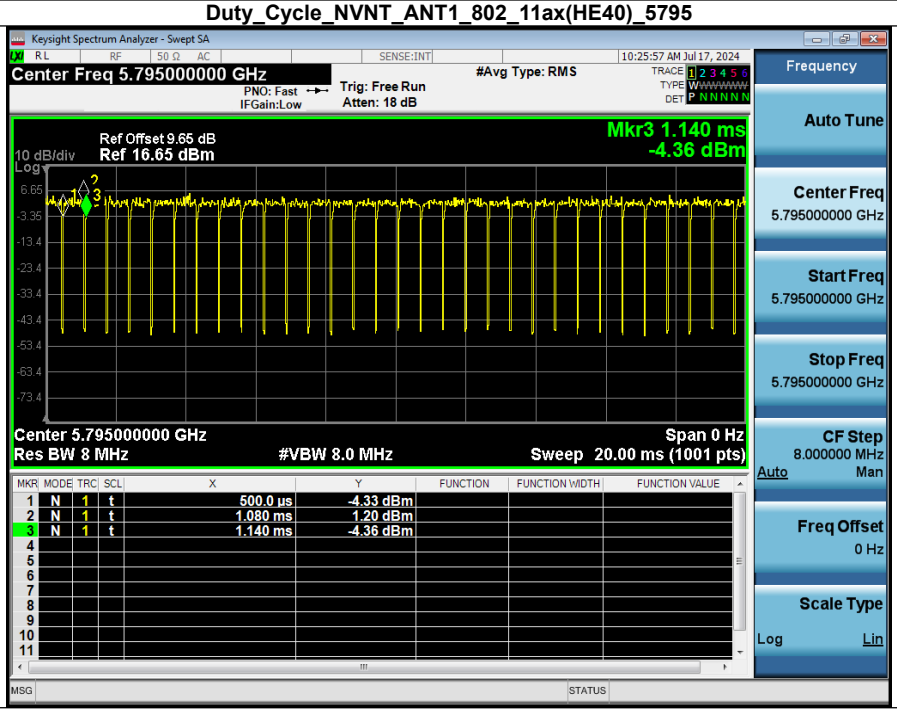
**Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5795**



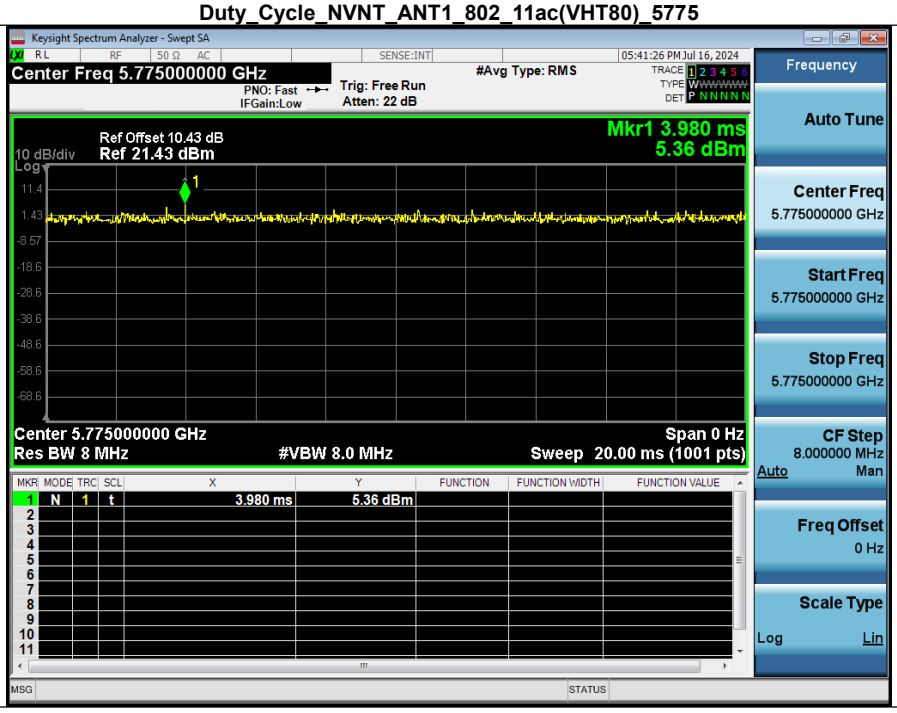

**Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_5755**



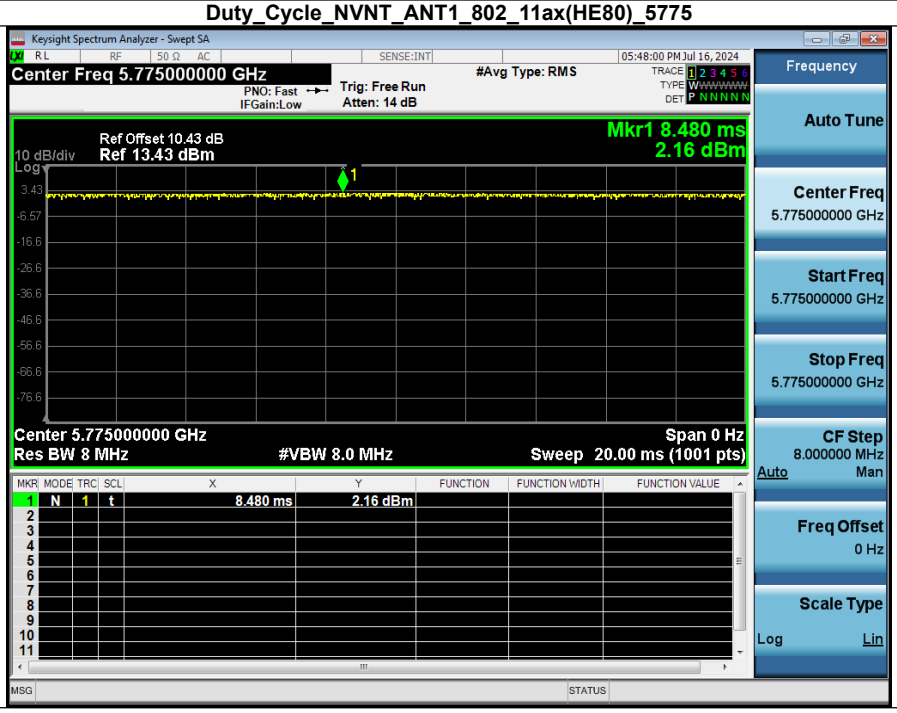
**Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_5795**




**Duty_Cycle_NVNT_ANT1_802_11ac(VHT80)_5775**



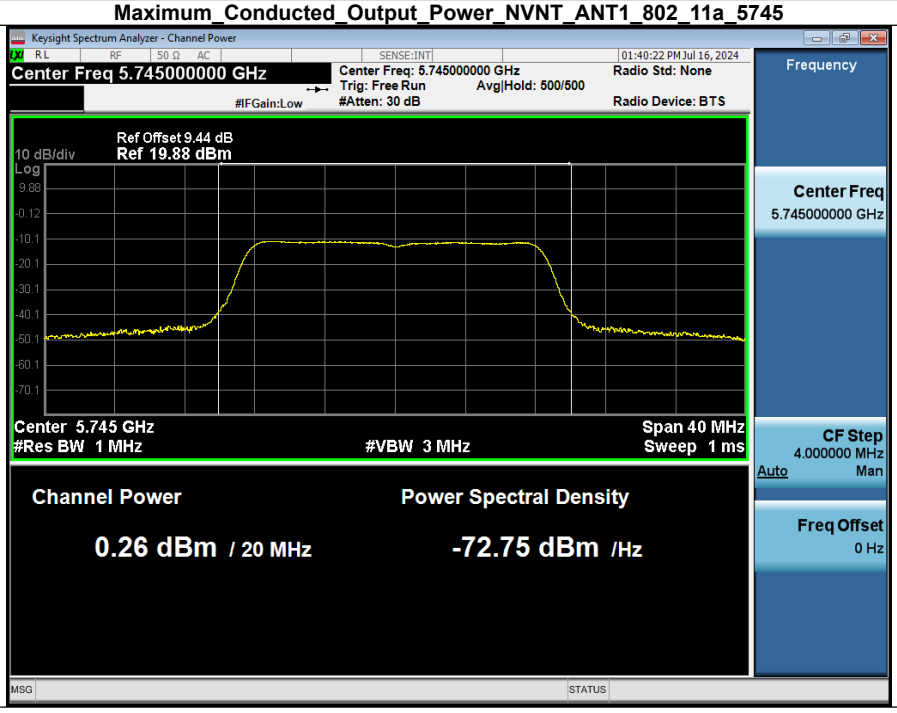
**Duty_Cycle_NVNT_ANT1_802_11ax(HE80)_5775**



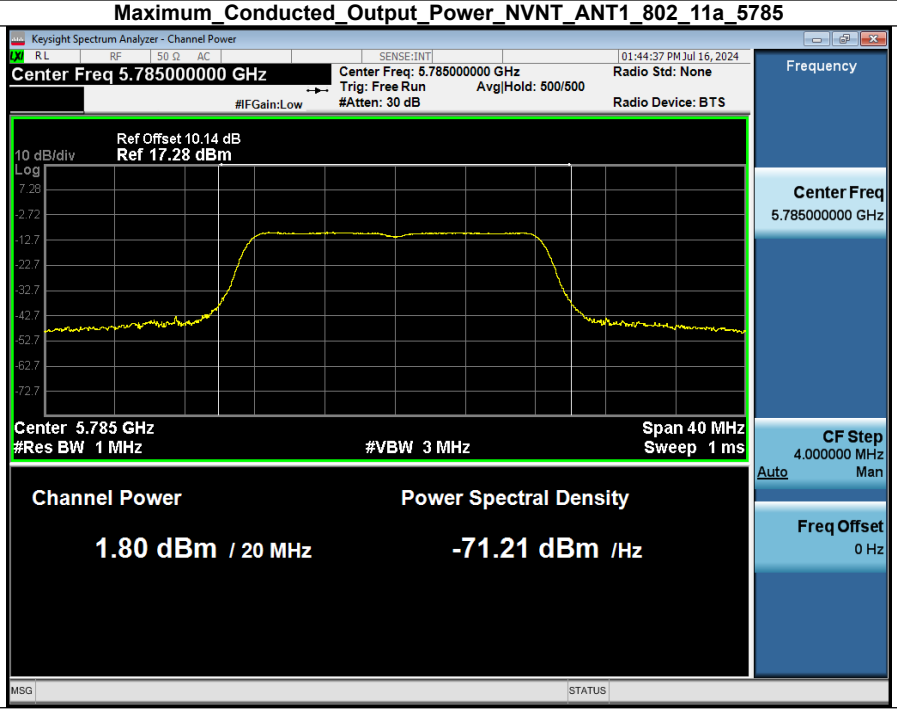
# 4. Maximum Conducted Output Power

| Condition | Antenna | Modulation | Frequency (MHz) | Conducted Power(dBm) | Duty factor(dB) | Total Power(dBm) | limit(dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5745.00 | 0.26 | 0.18 | 0.44 | 30 | Pass |
| NVNT | ANT1 | 802.11a | 5785.00 | 1.80 | 0.18 | 1.98 | 30 | Pass |
| NVNT | ANT1 | 802.11a | 5825.00 | 1.52 | 0.12 | 1.64 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5745.00 | 0.05 | 0.22 | 0.27 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5785.00 | 1.09 | 0.14 | 1.23 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5825.00 | 0.81 | 0.14 | 0.95 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5745.00 | -0.02 | 0.14 | 0.12 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5785.00 | 1.05 | 0.14 | 1.19 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5825.00 | 0.76 | 0.22 | 0.98 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5745.00 | 0.88 | 0.14 | 1.02 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5785.00 | 1.83 | 0.22 | 2.05 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5825.00 | 1.64 | 0.22 | 1.86 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5755.00 | -0.12 | 0.43 | 0.31 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5795.00 | 0.35 | 0.28 | 0.63 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5755.00 | -0.12 | 0.41 | 0.29 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5795.00 | 0.35 | 0.41 | 0.76 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5755.00 | 0.79 | 0.43 | 1.22 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5795.00 | 1.18 | 0.43 | 1.61 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5775.00 | 1.61 | 0.00 | 1.61 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE80) | 5775.00 | 2.84 | 0.00 | 2.84 | 30 | Pass |

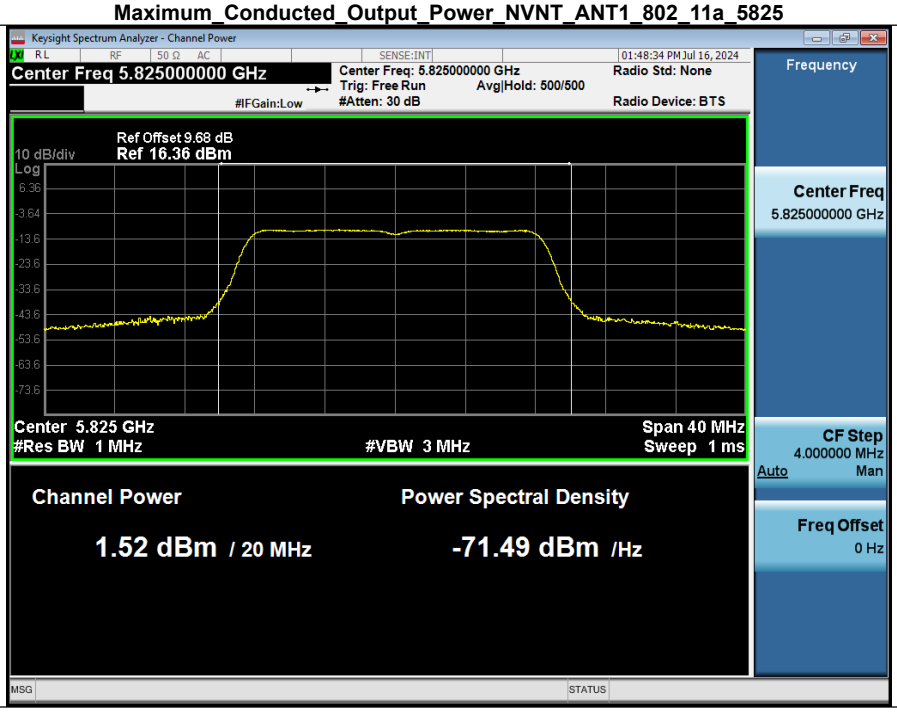
**Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5745**



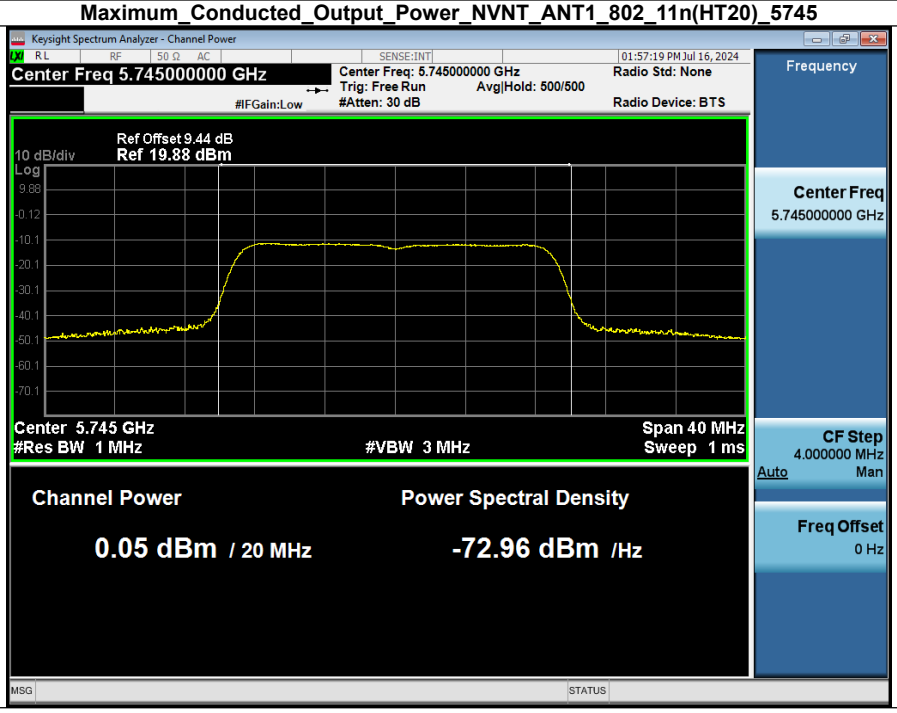
**Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5785**




**Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5825**



**Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5745**

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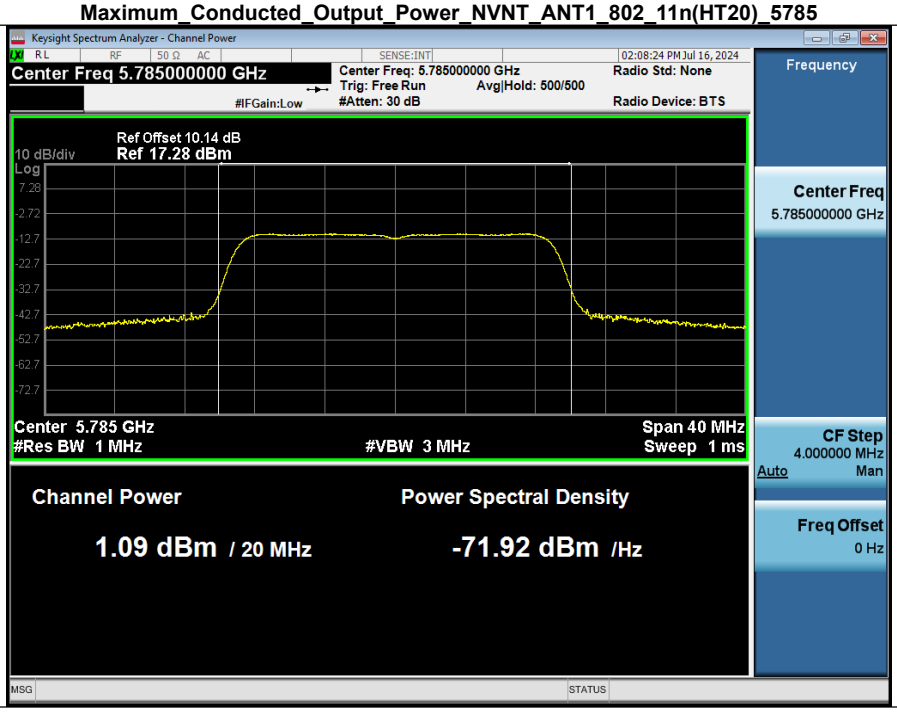

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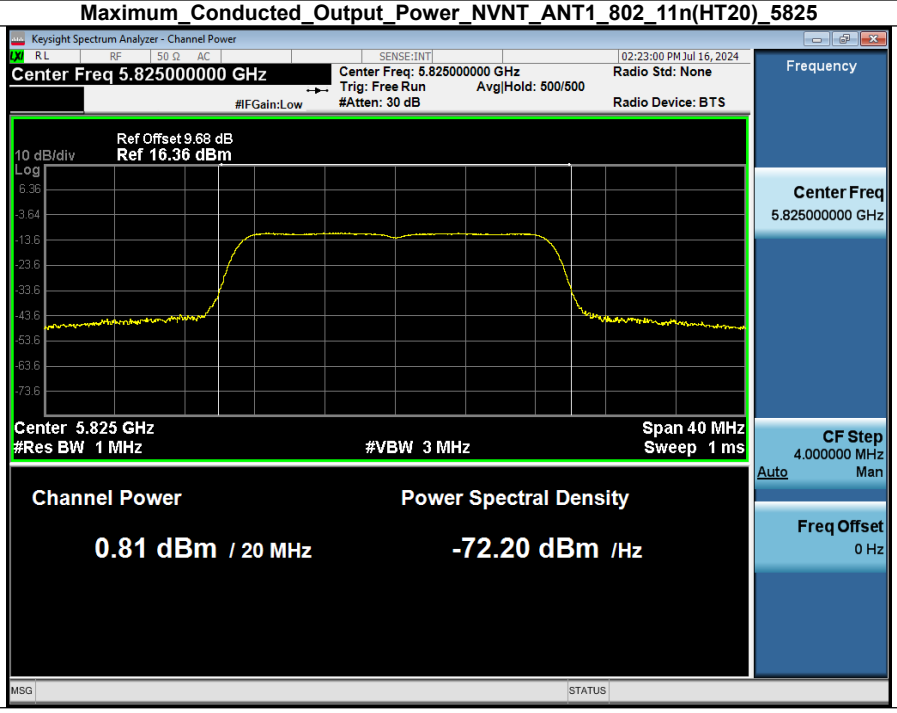


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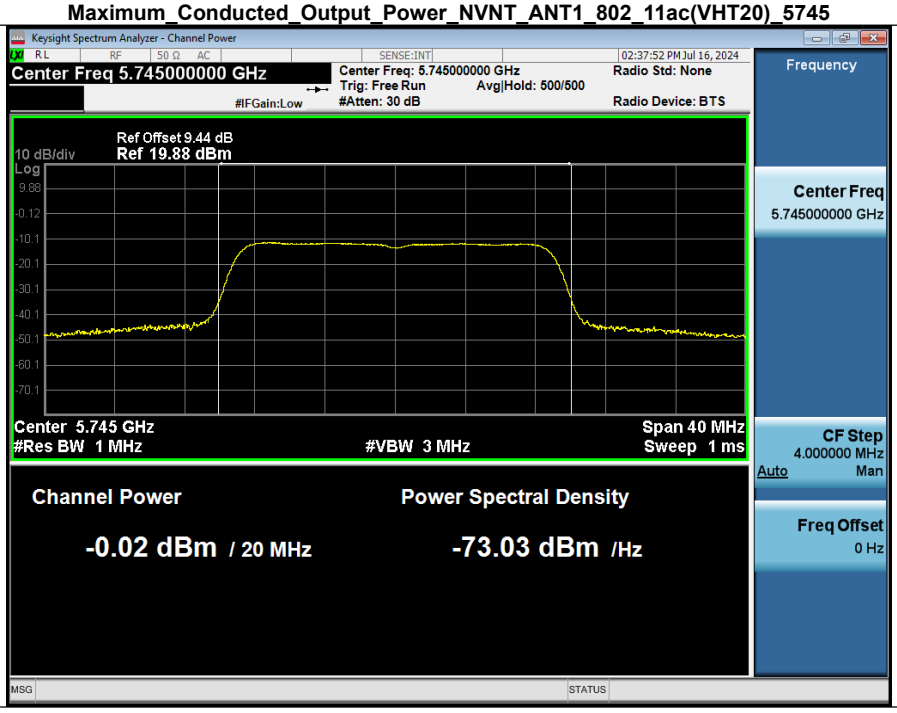

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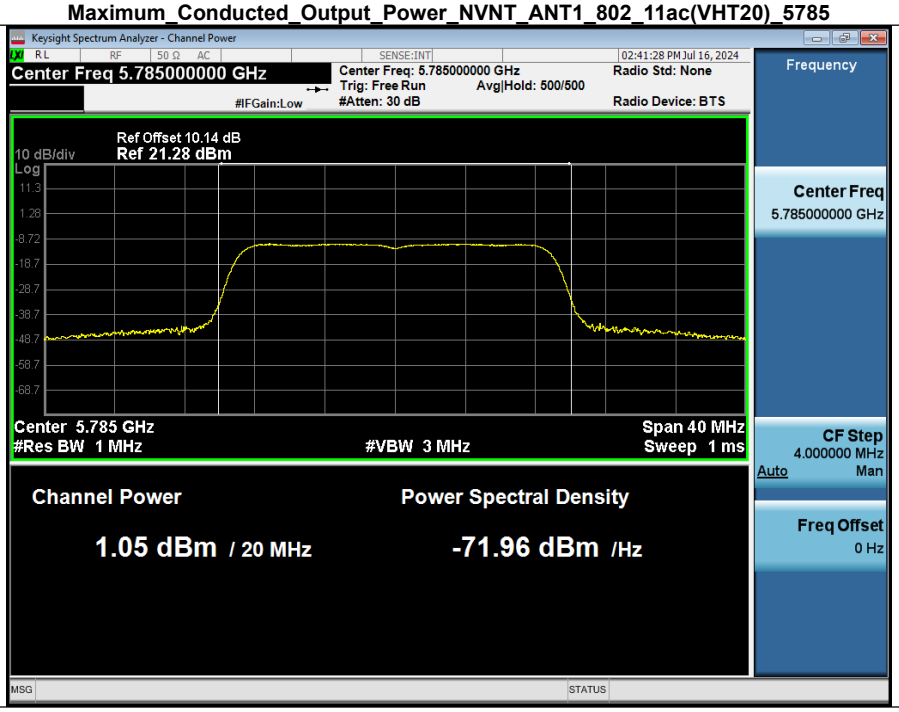

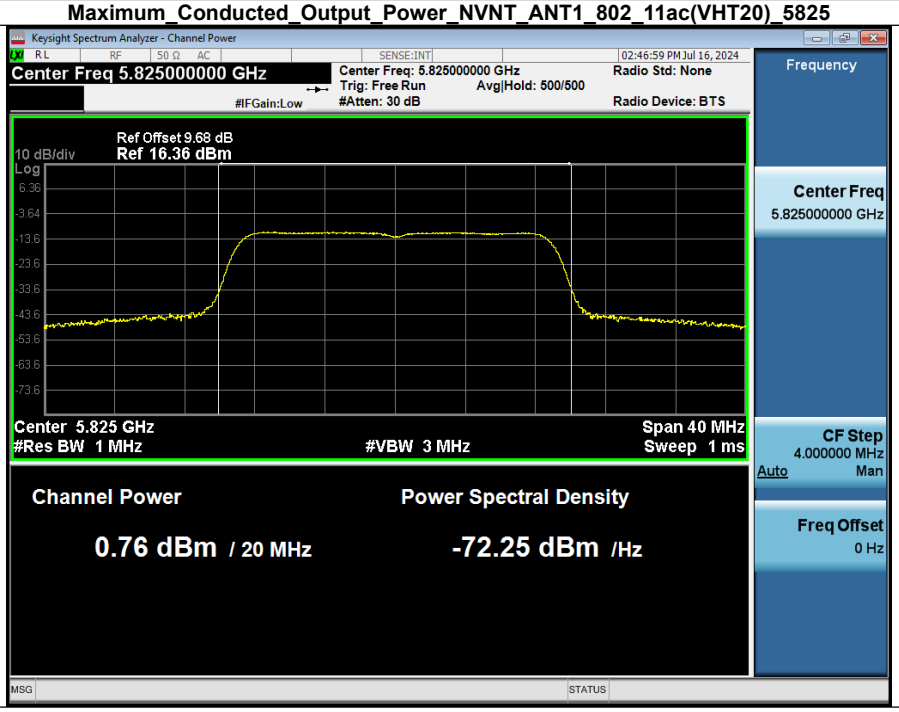
**Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT20)_5825**