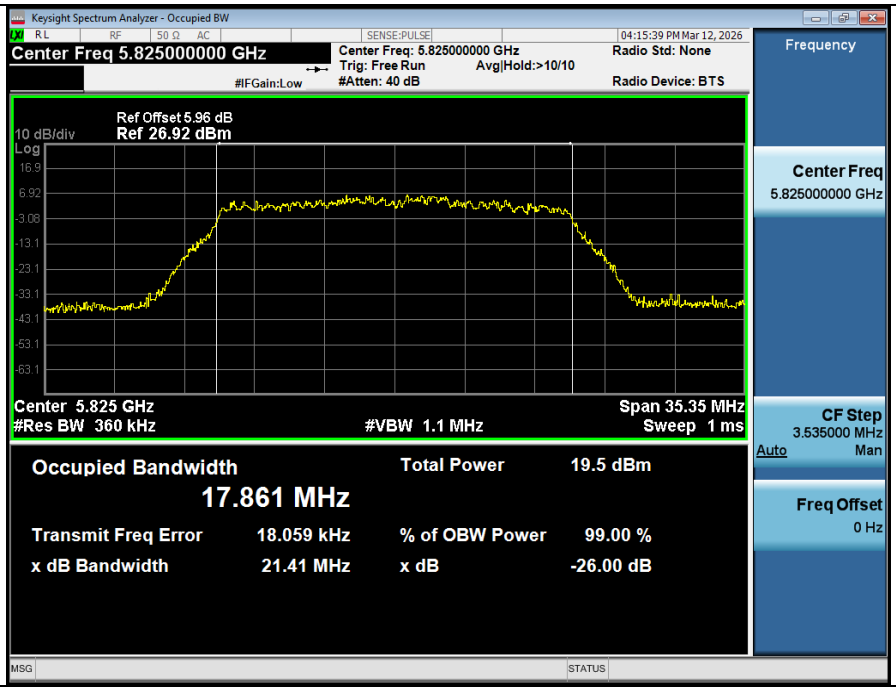


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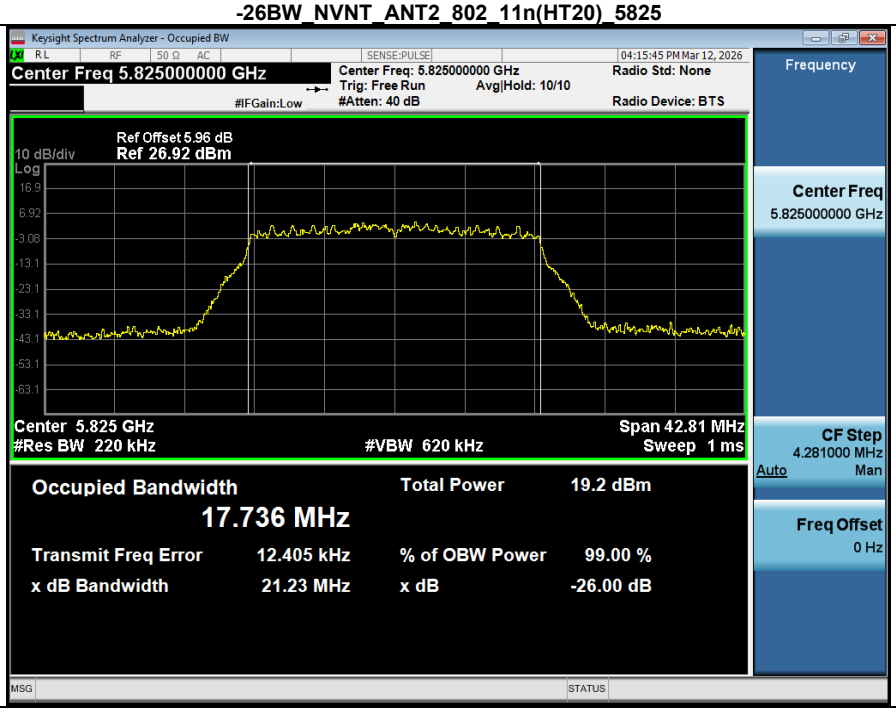


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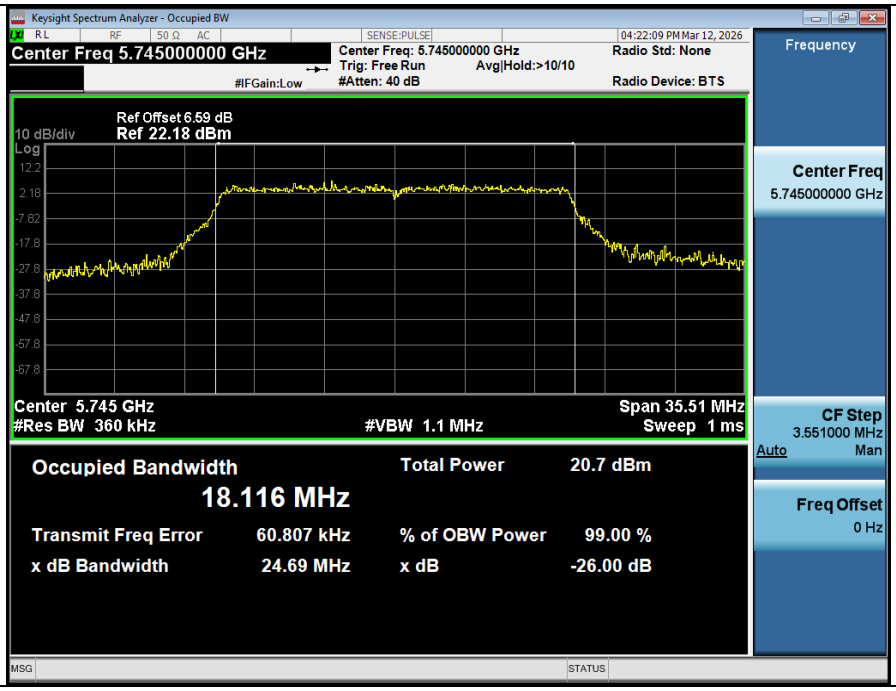


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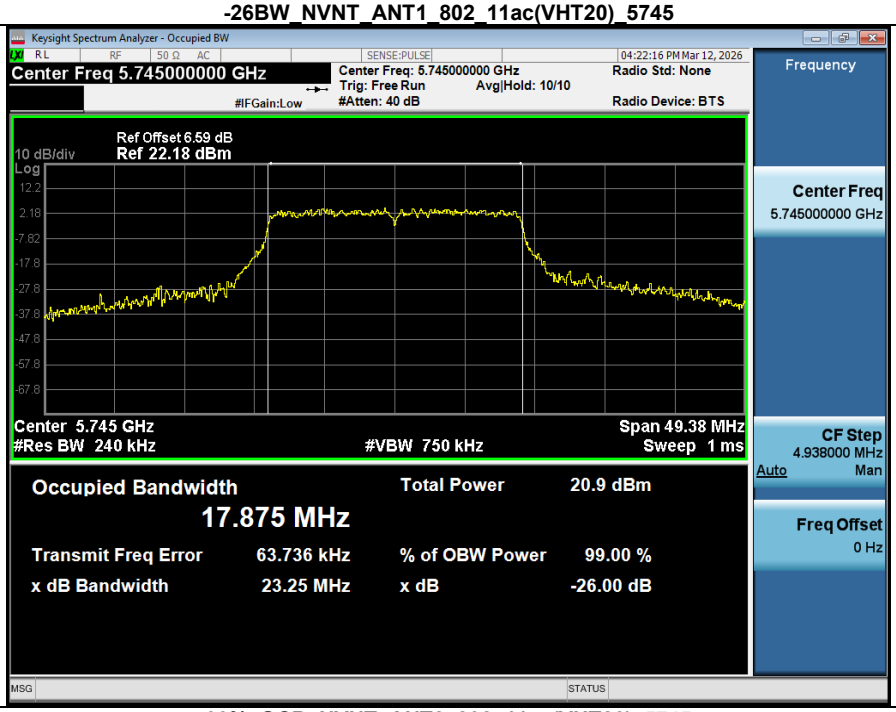


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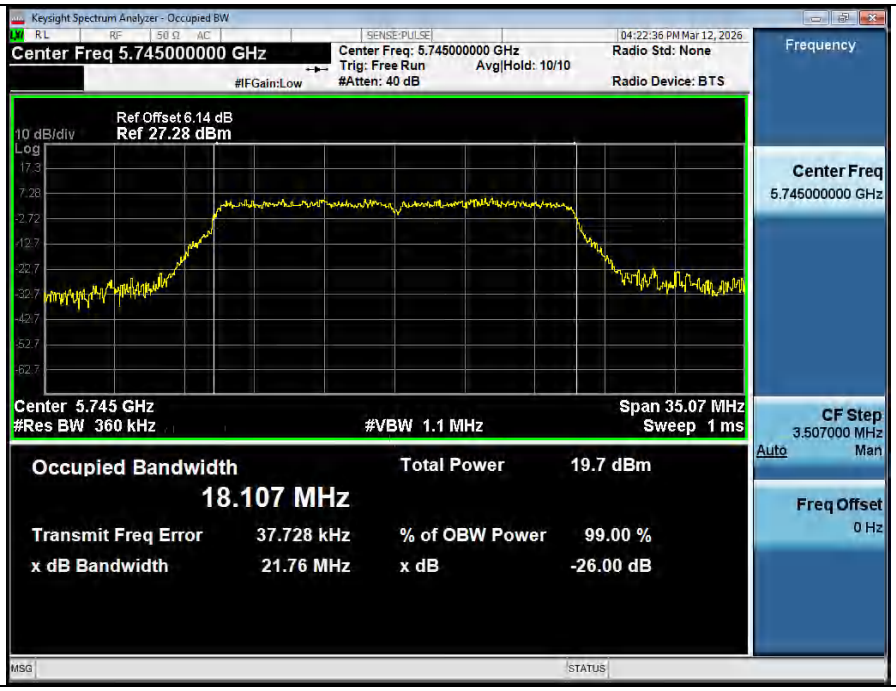


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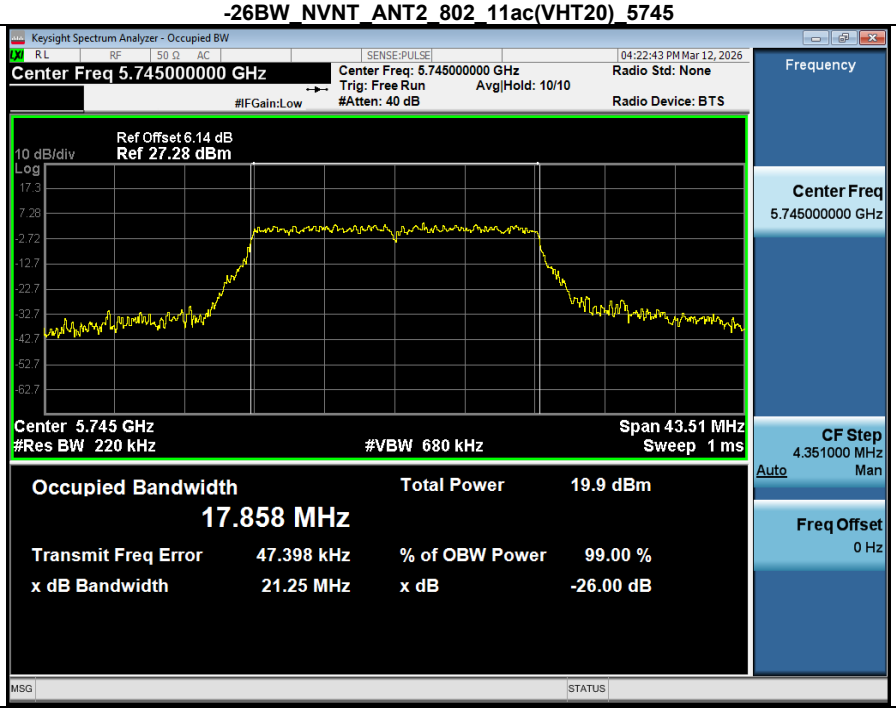


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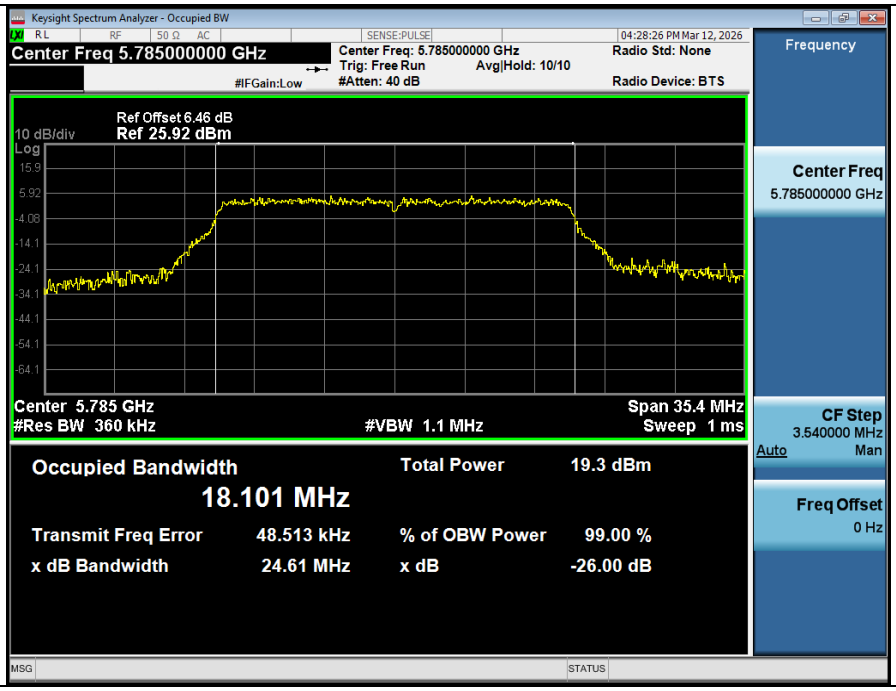


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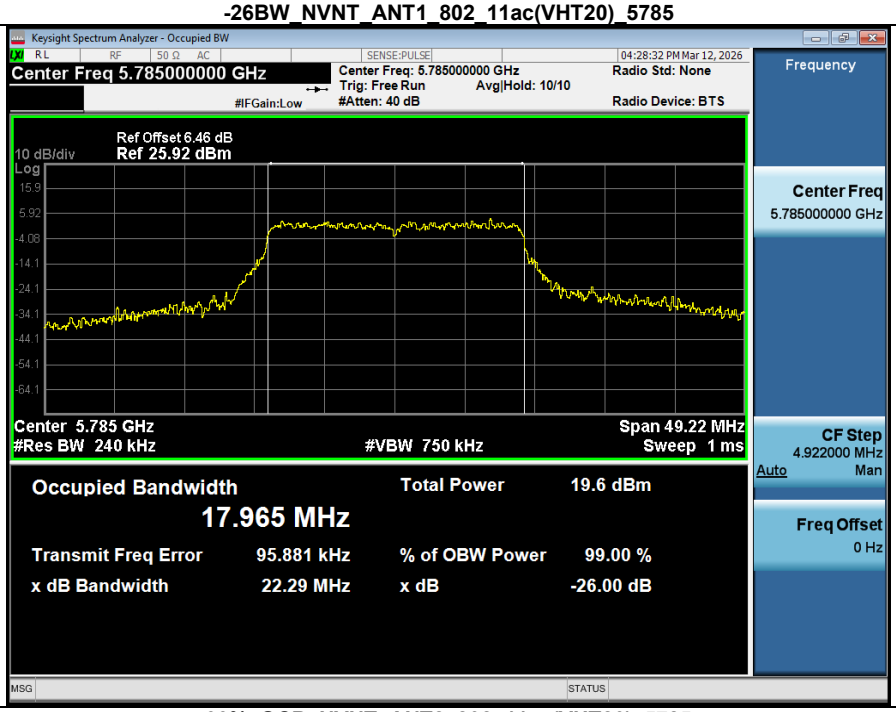


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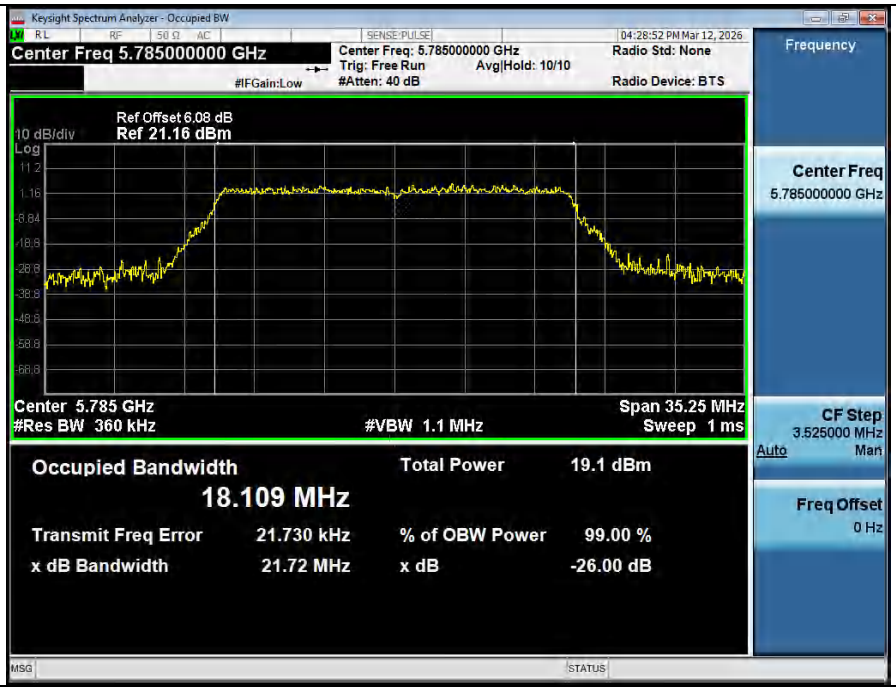


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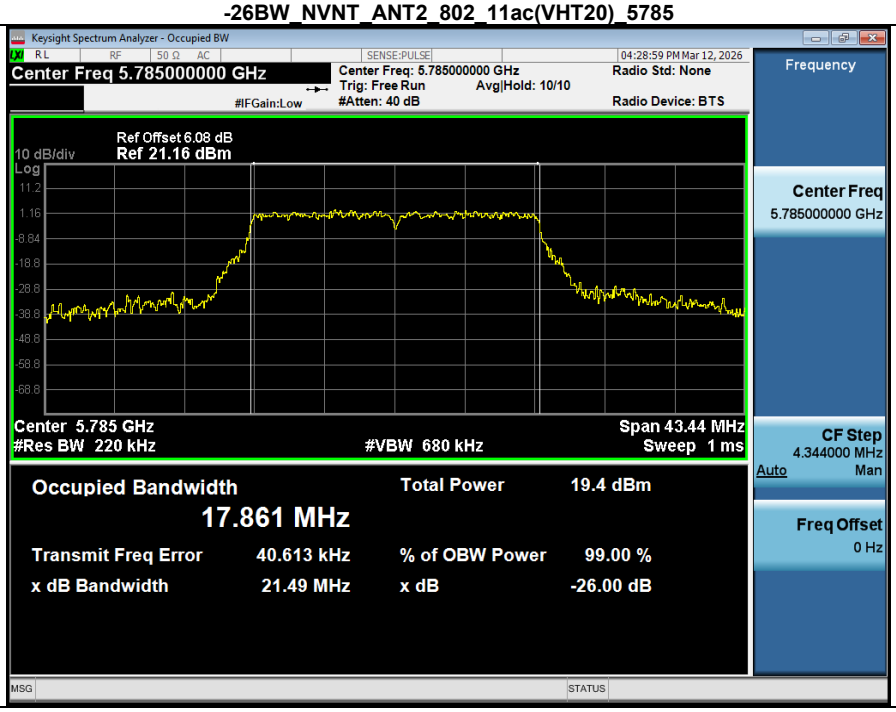


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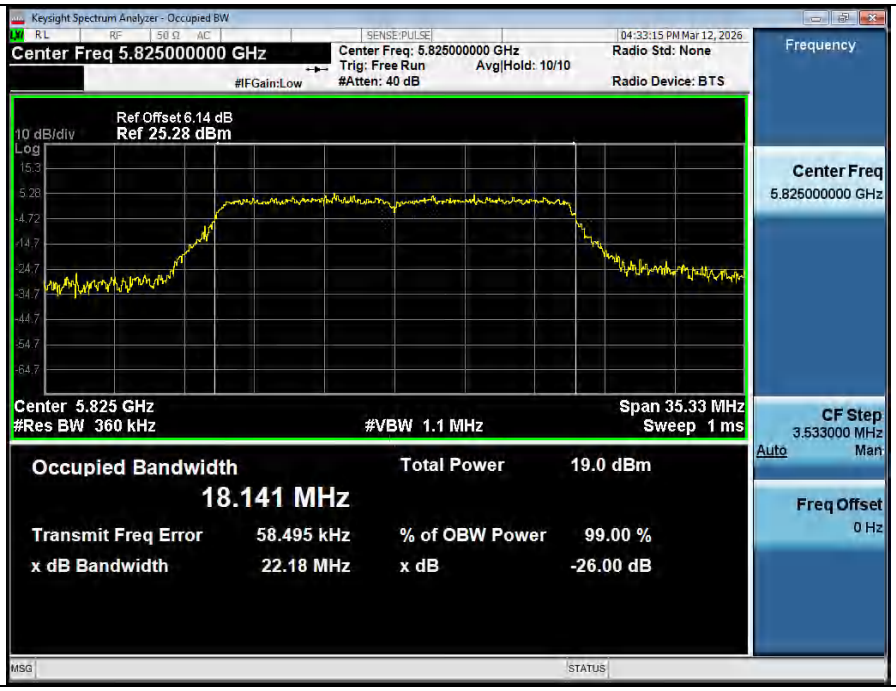


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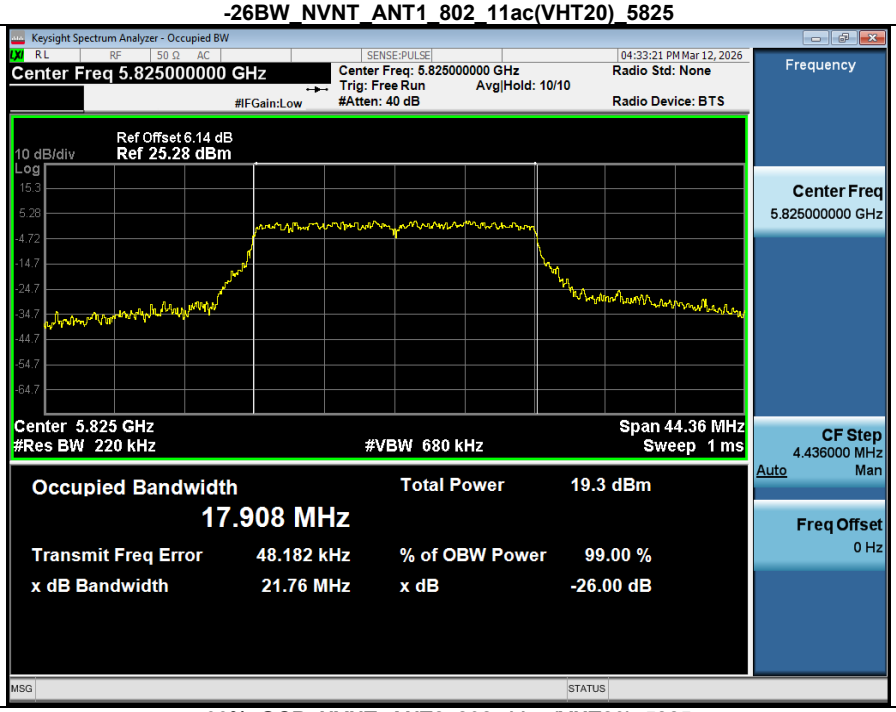


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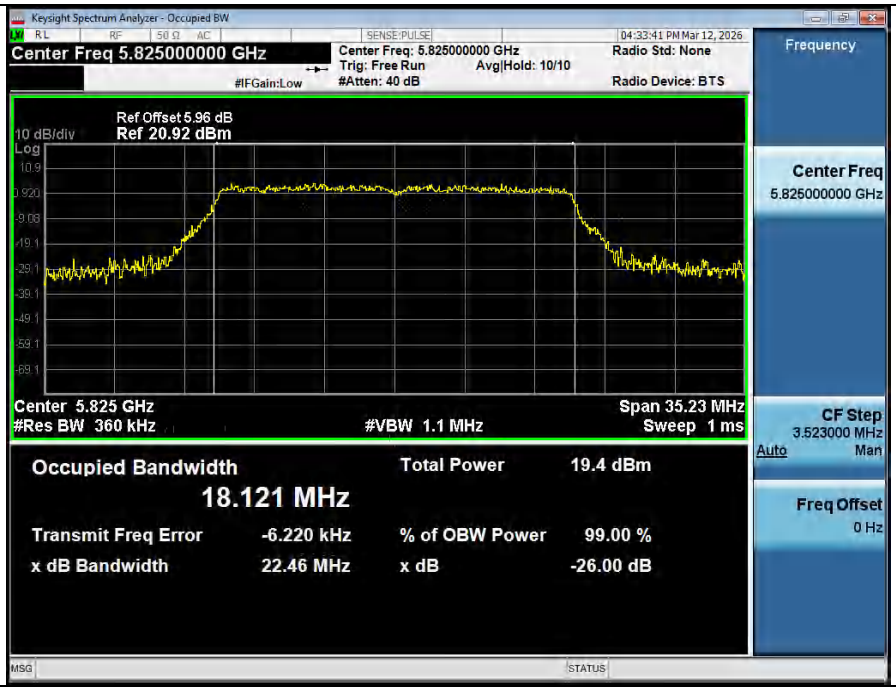


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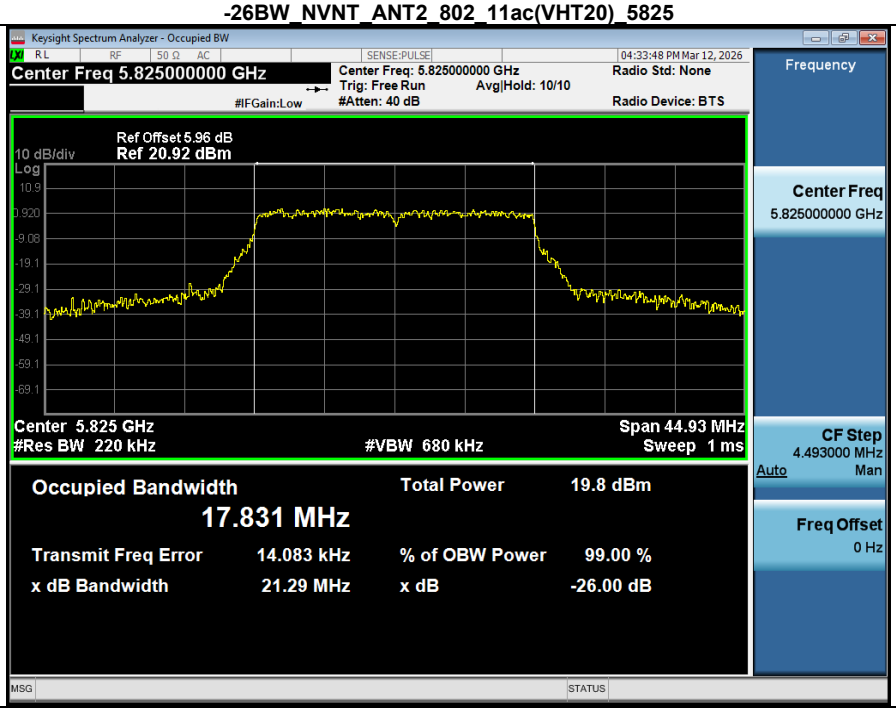


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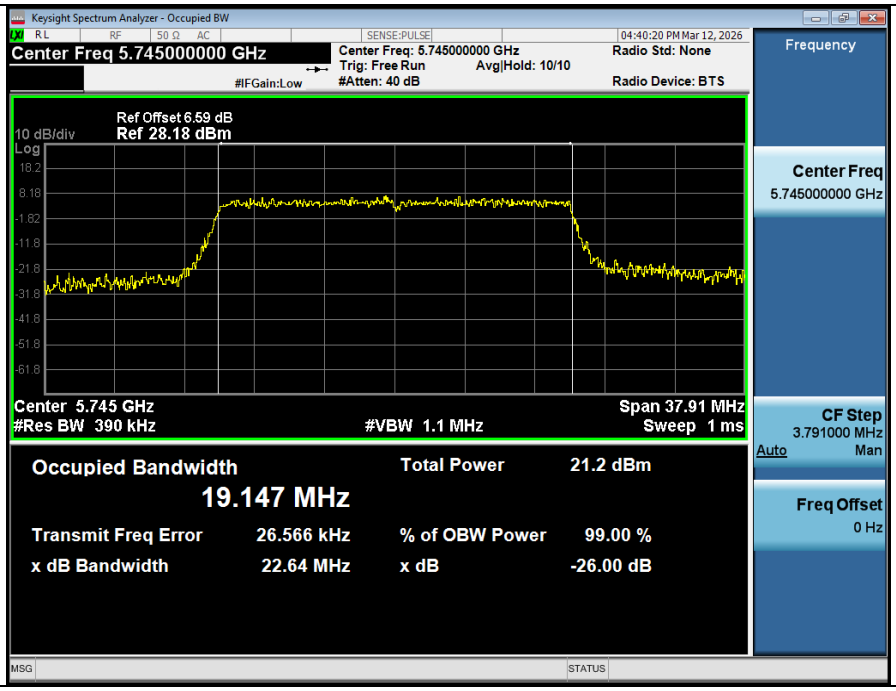


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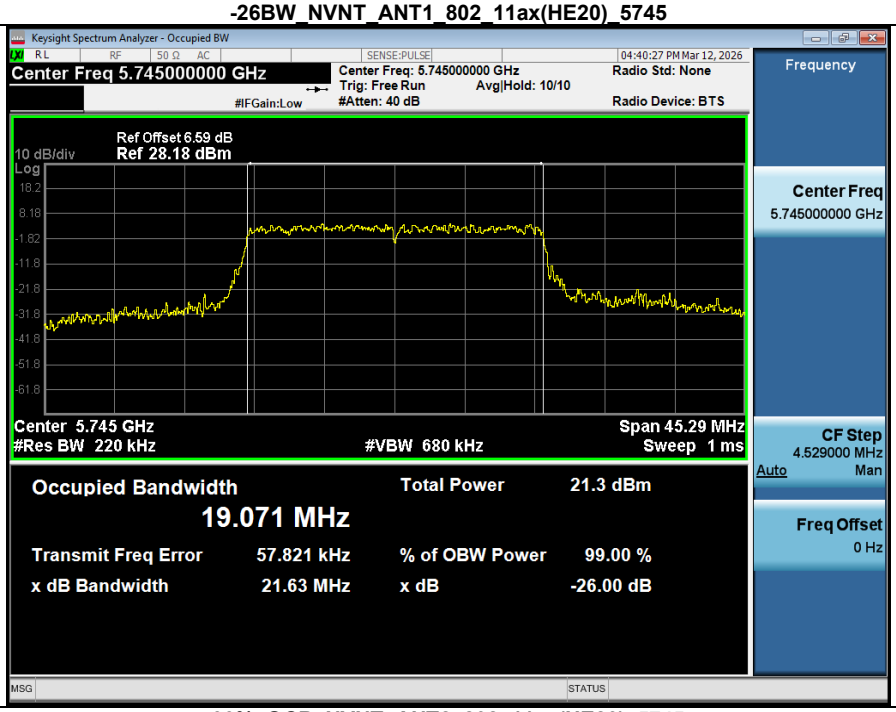


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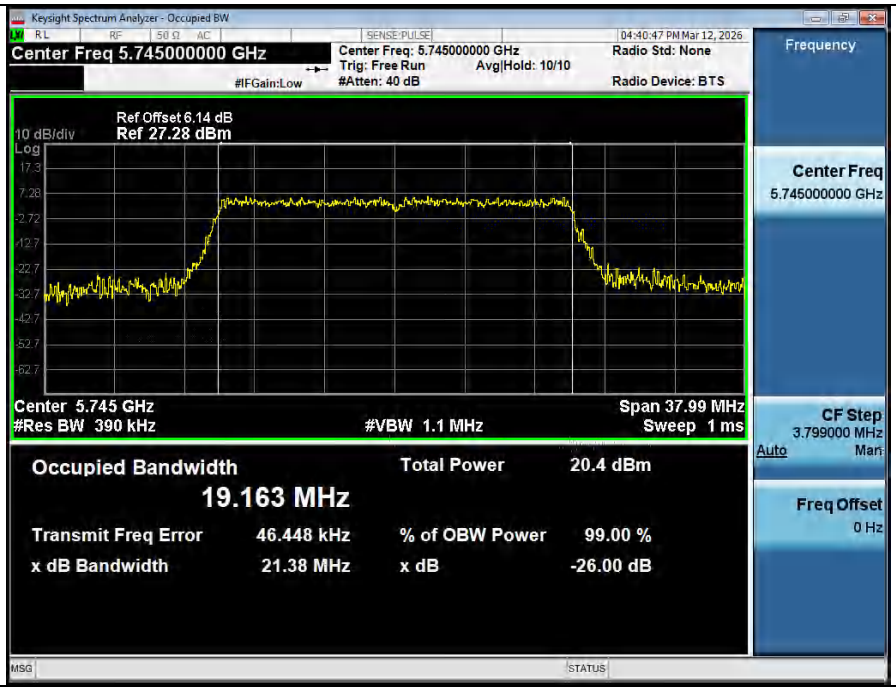


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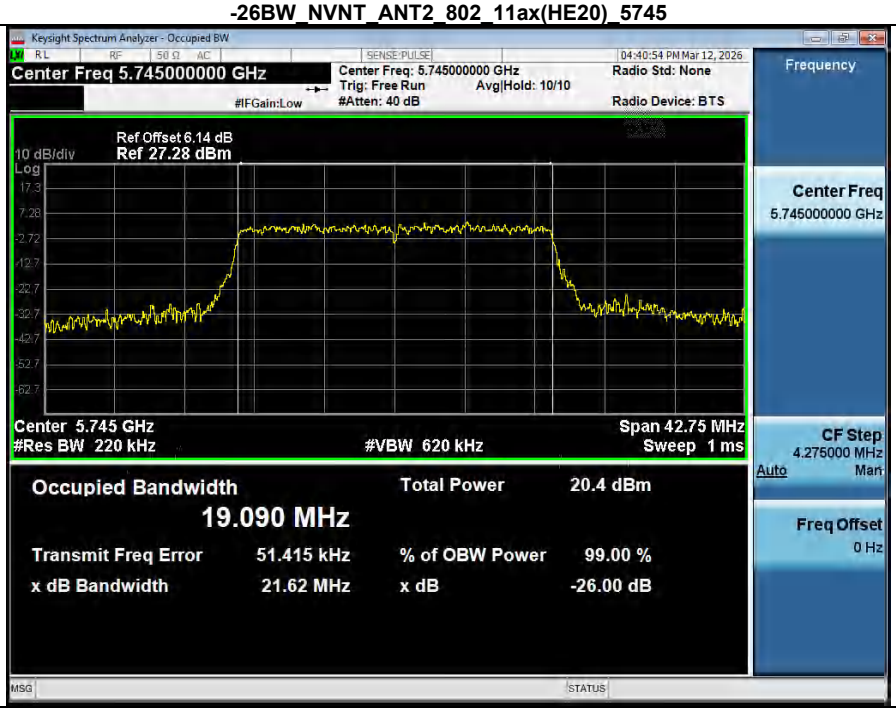


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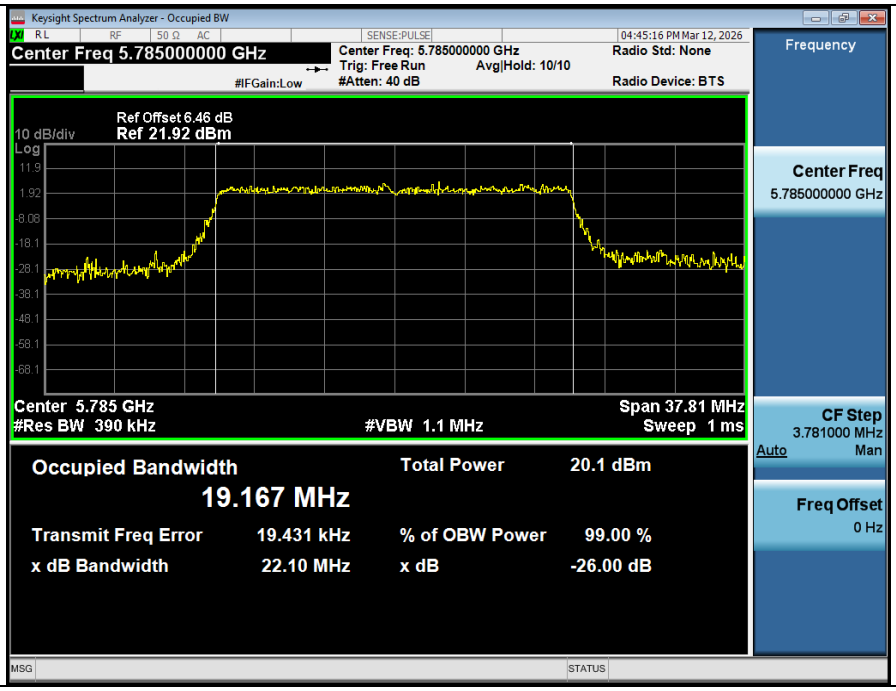


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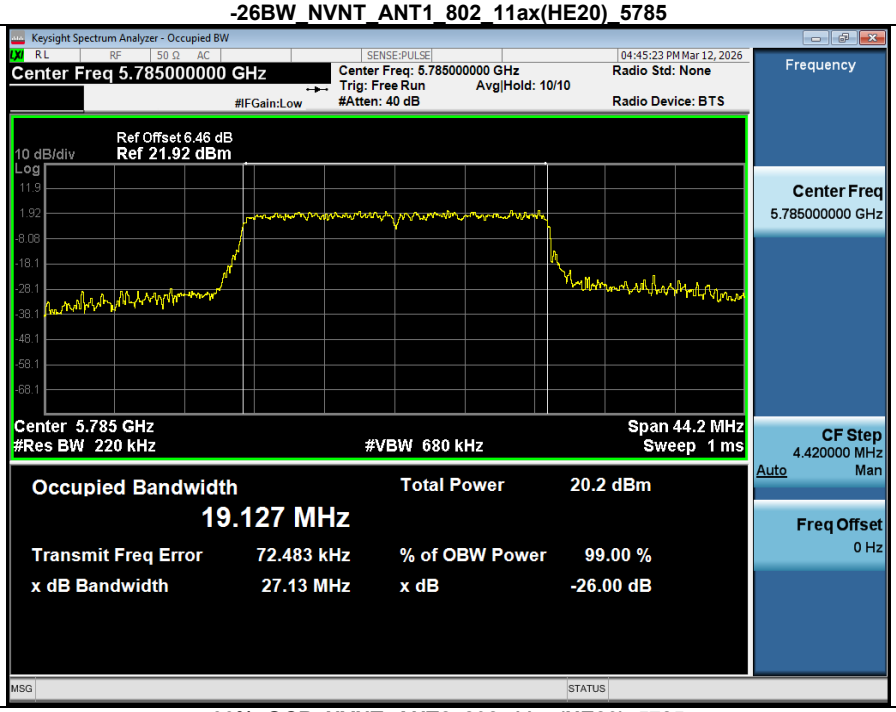


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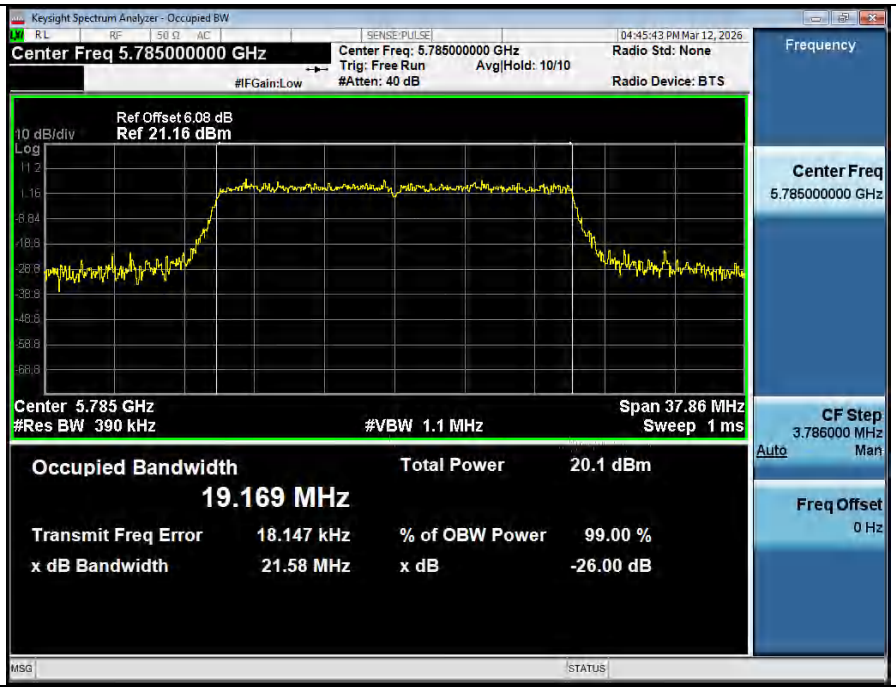


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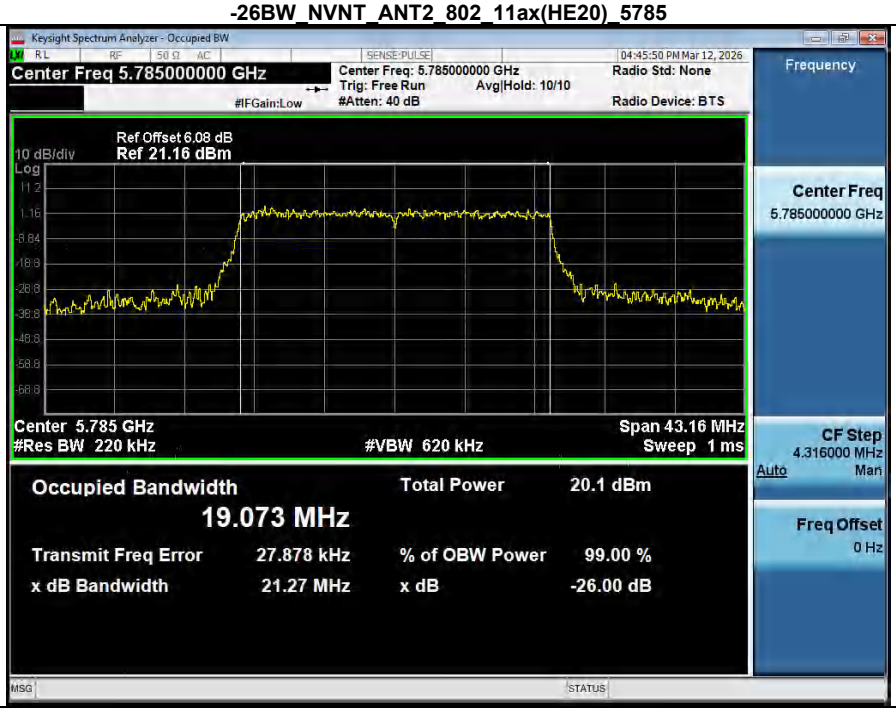


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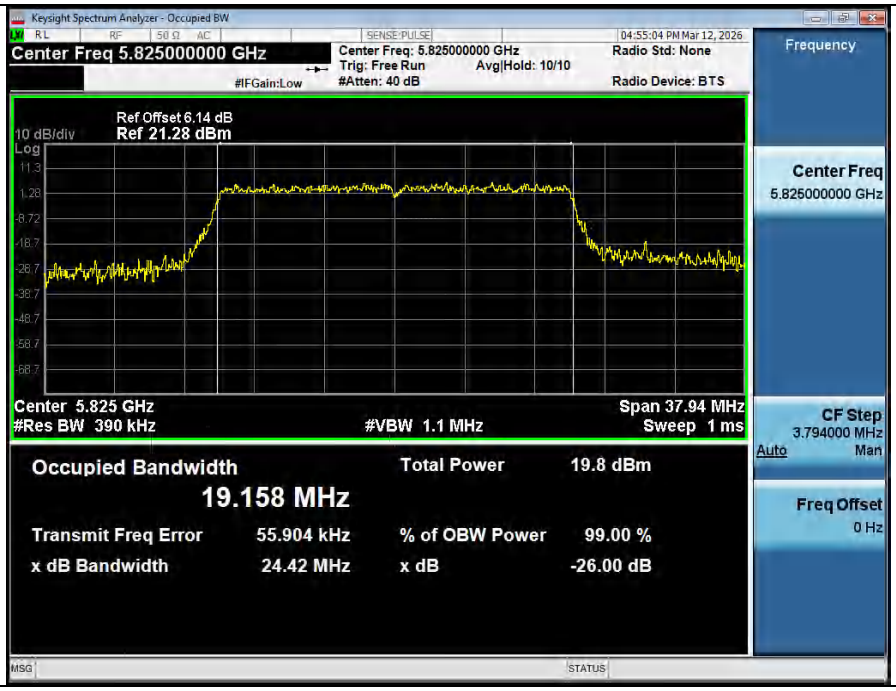


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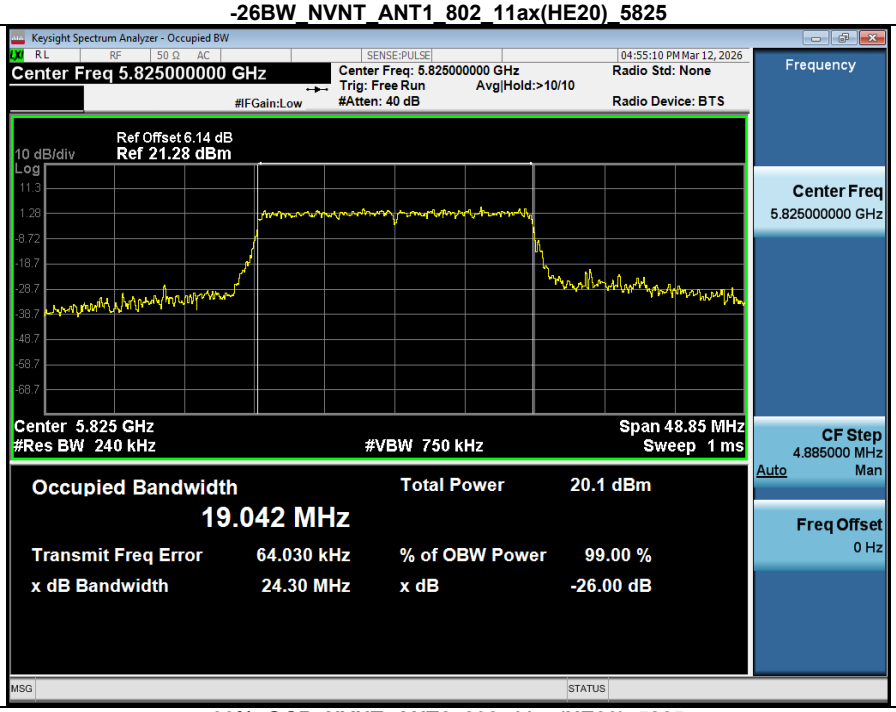


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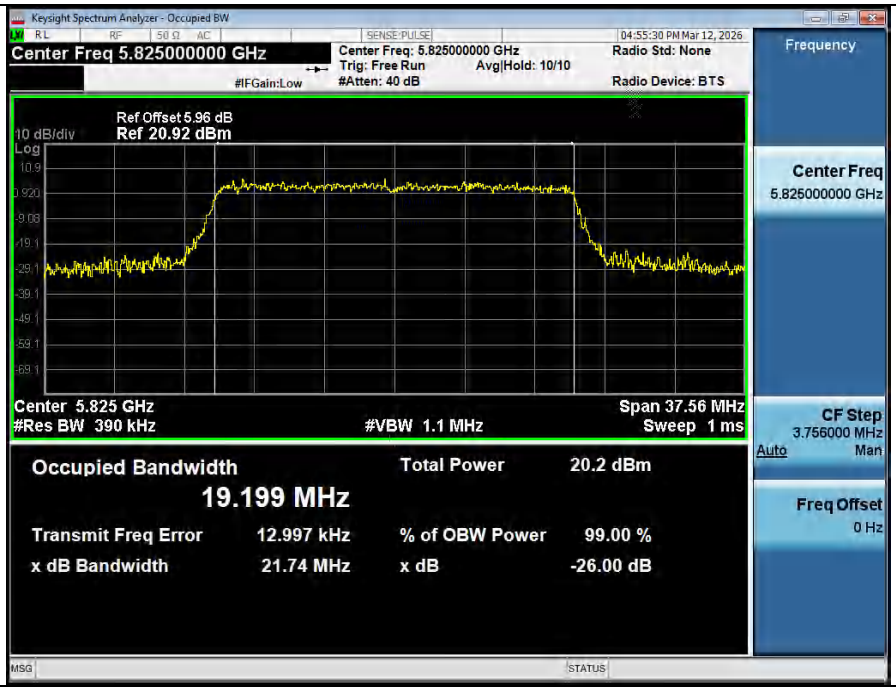


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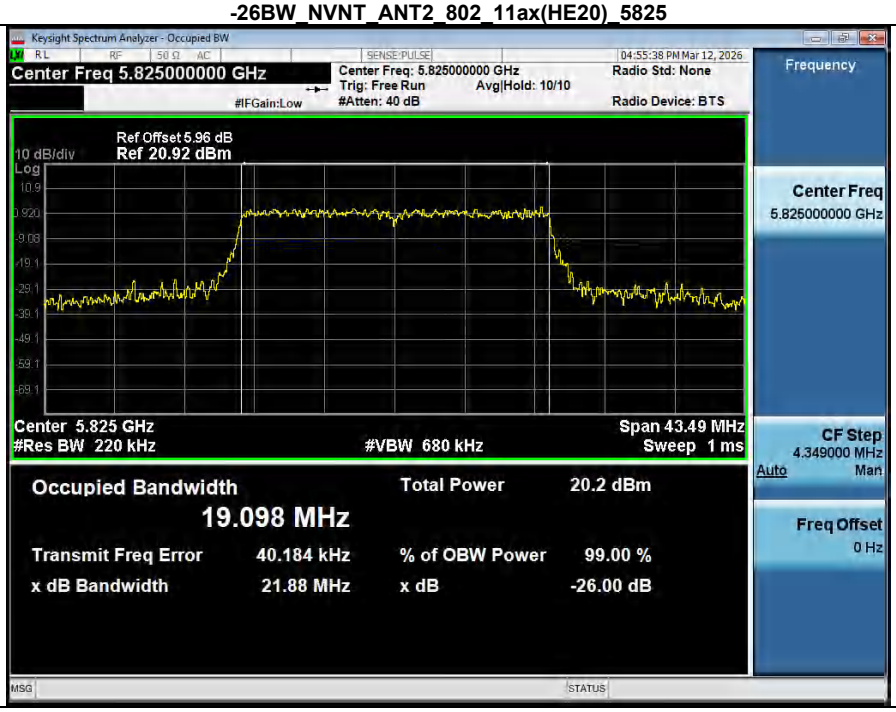


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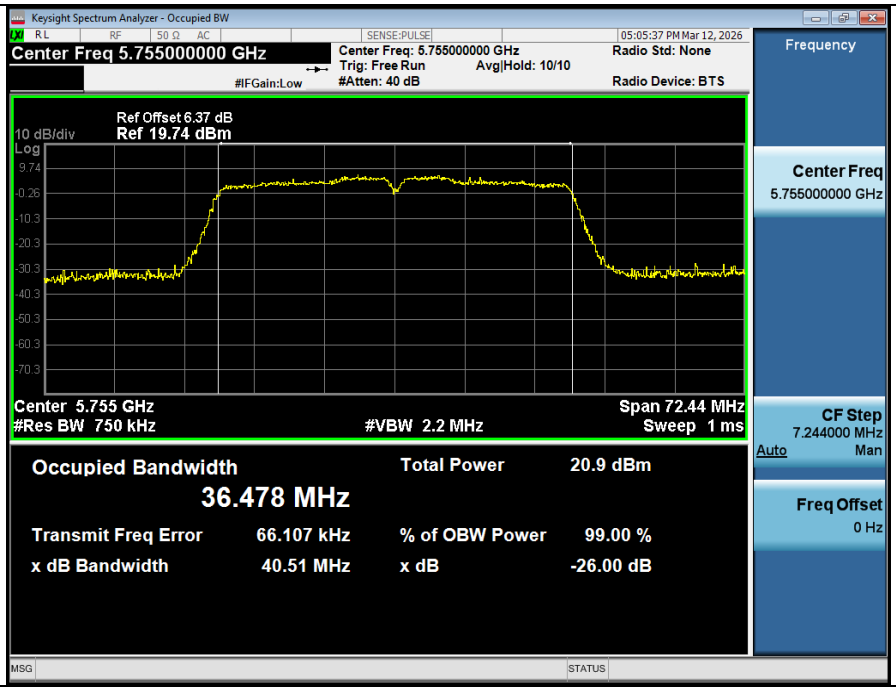


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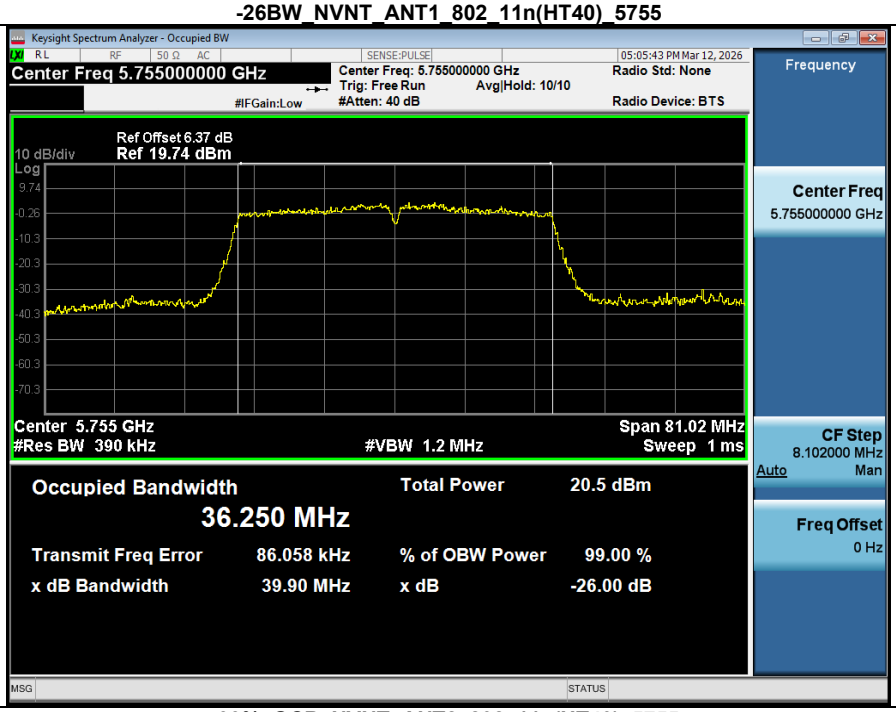


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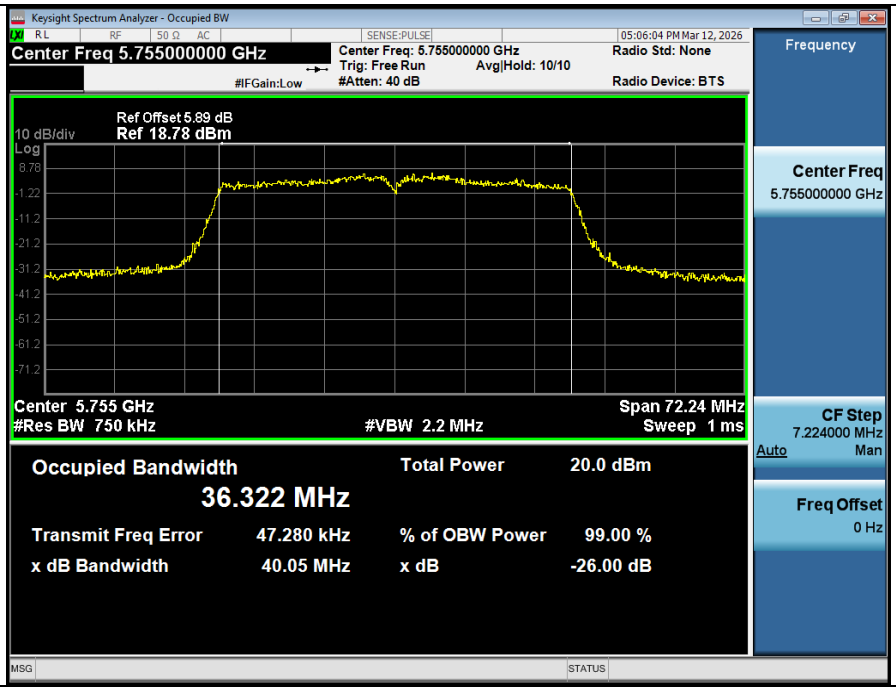


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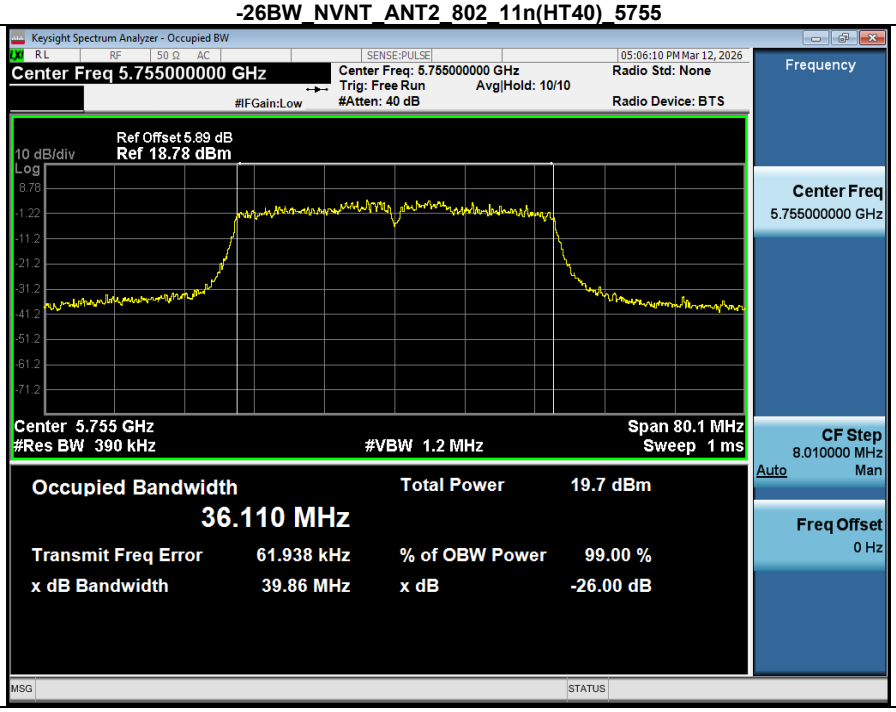


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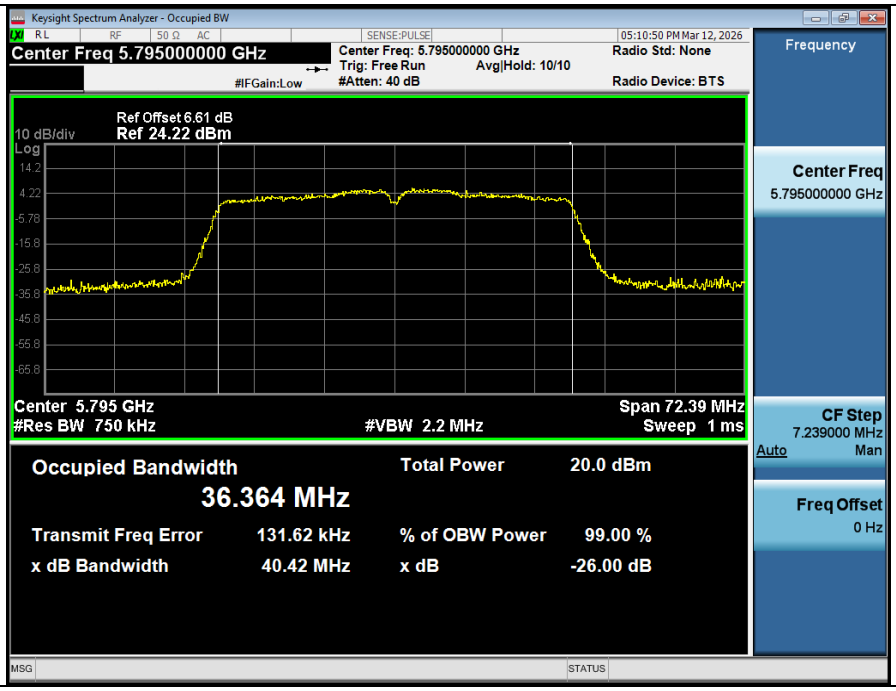


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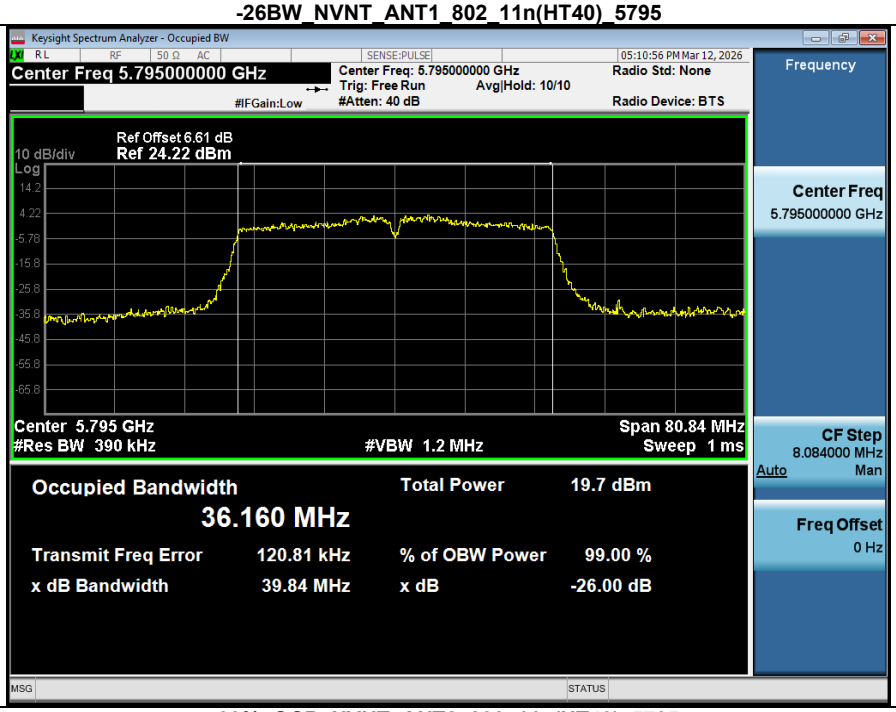


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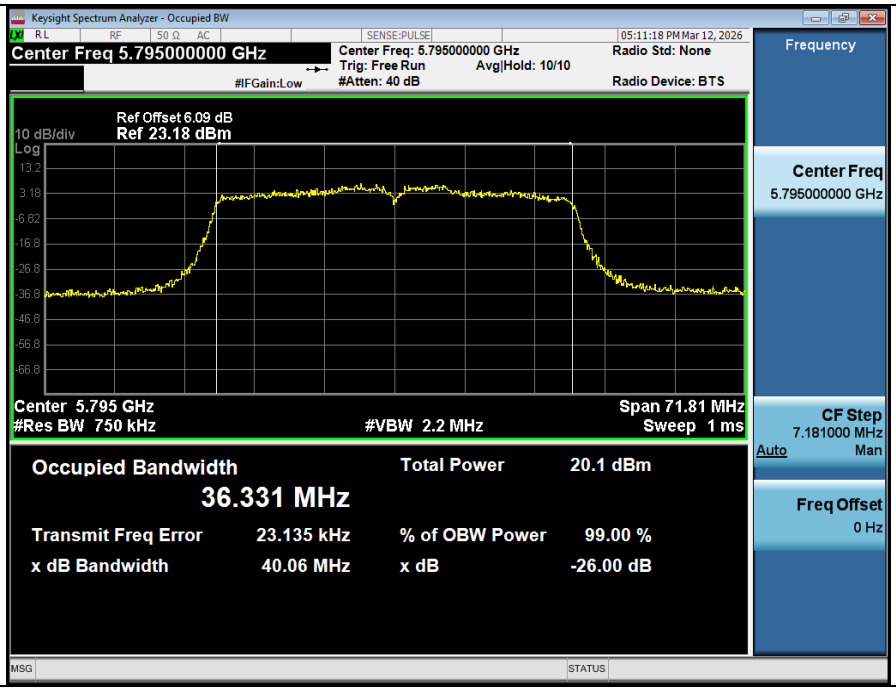


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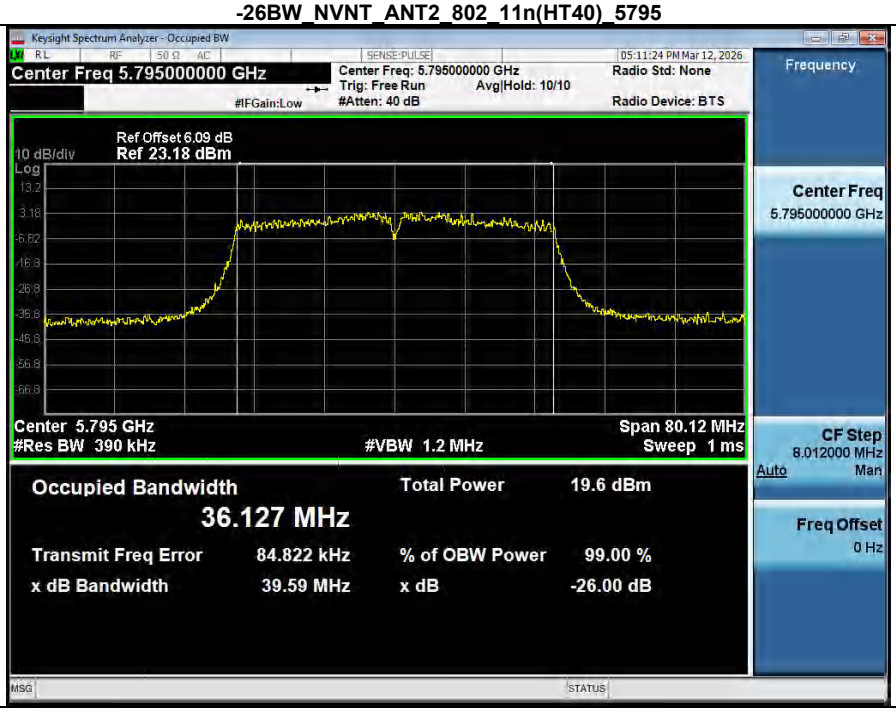


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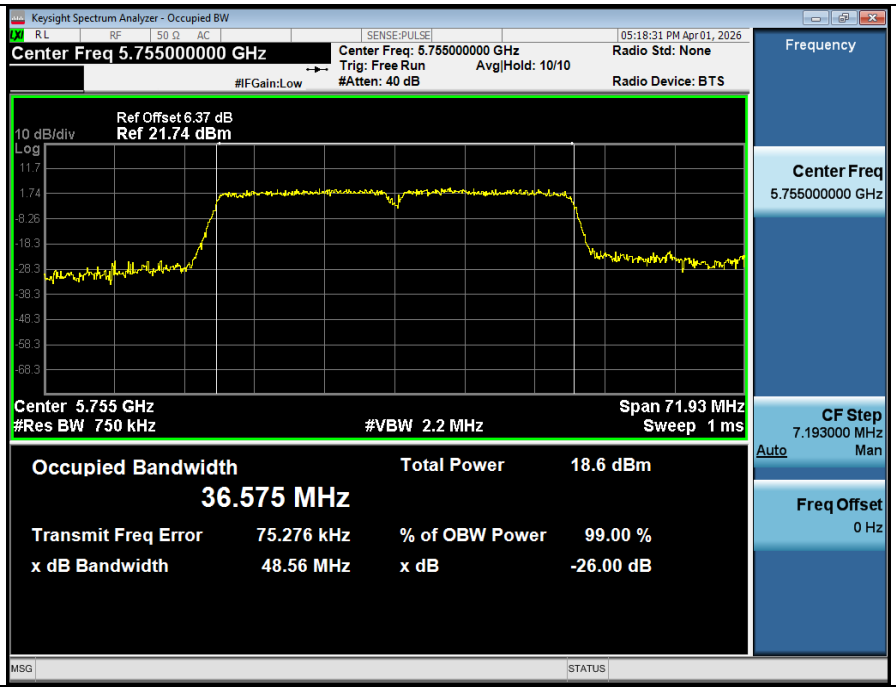


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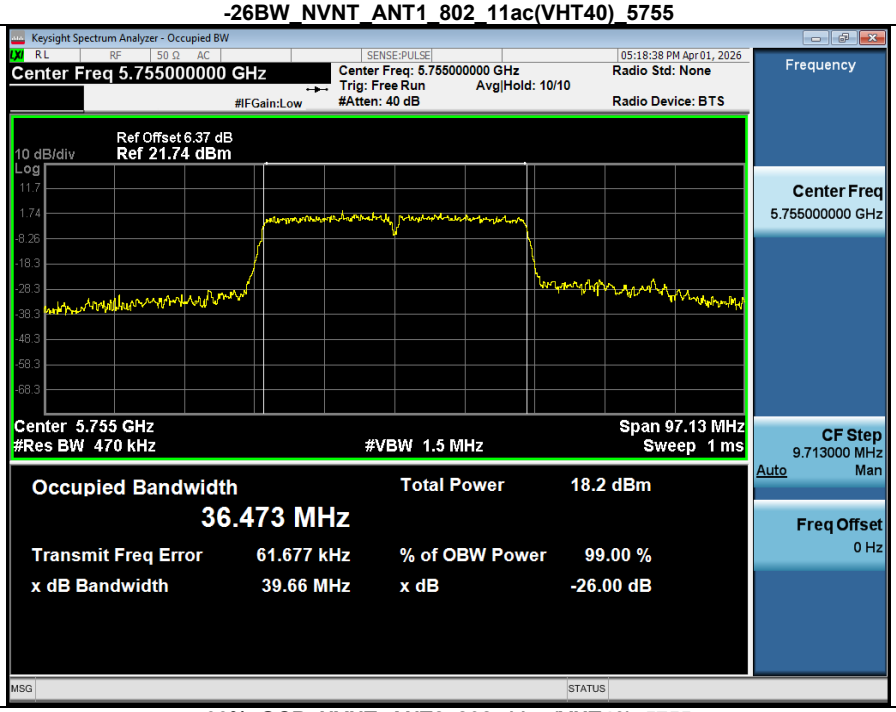


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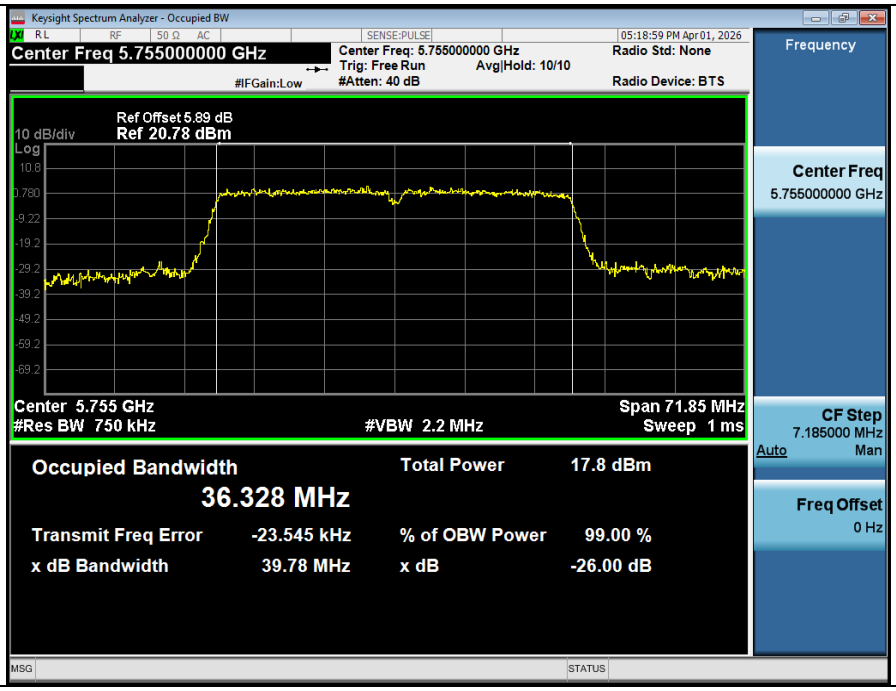


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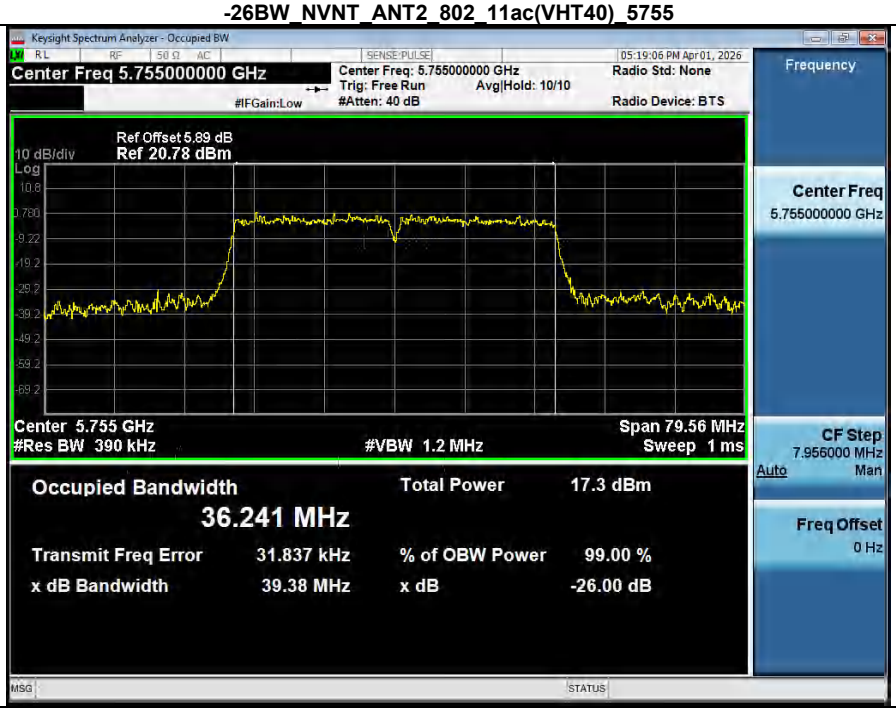


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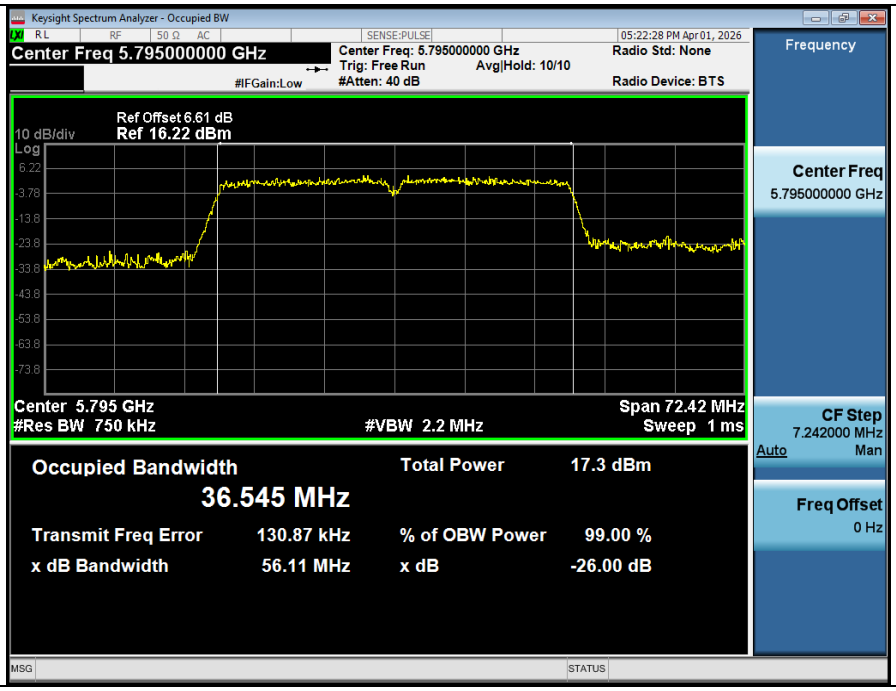


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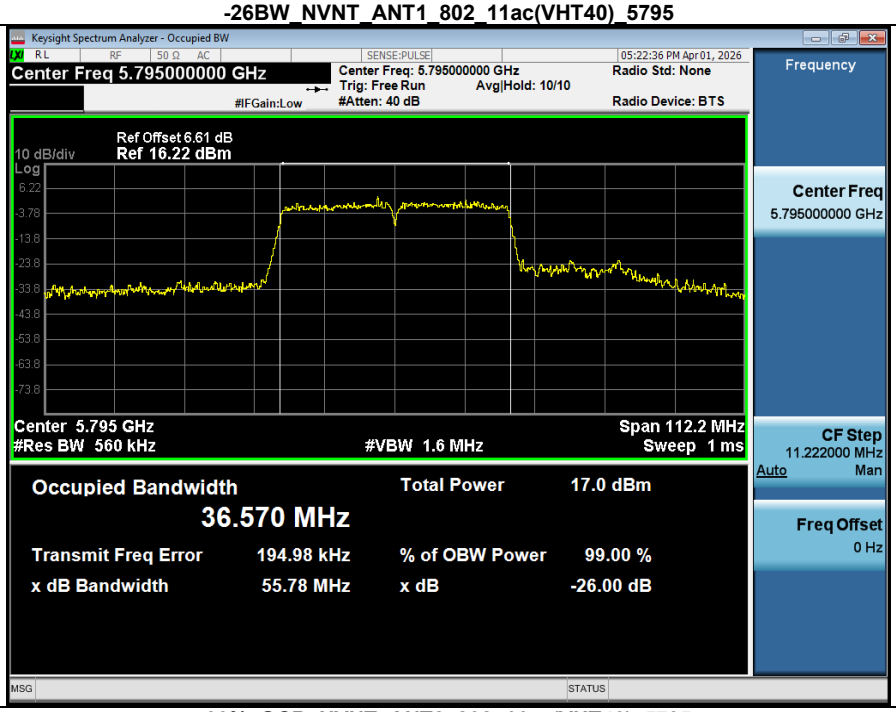


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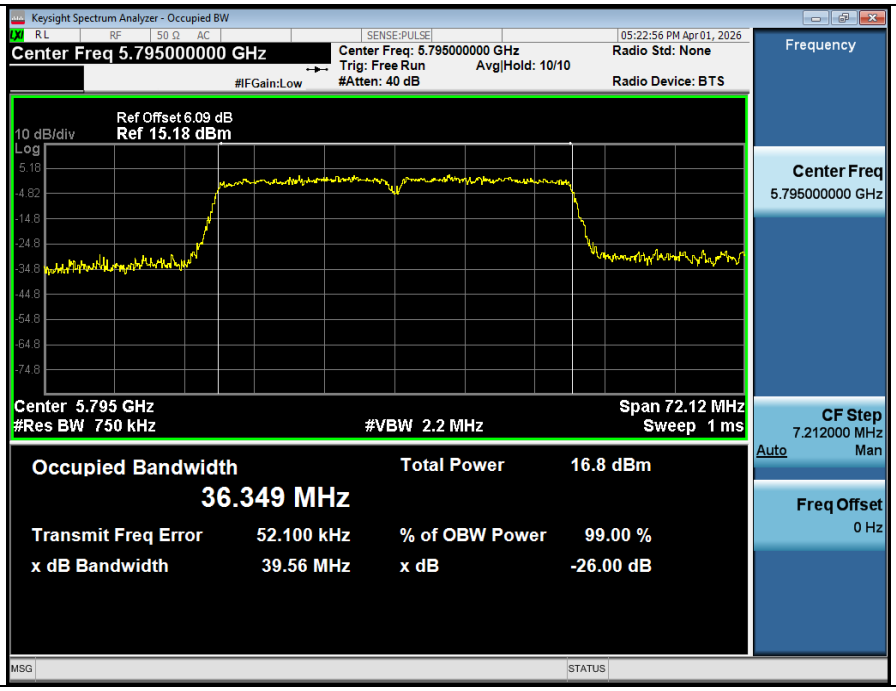


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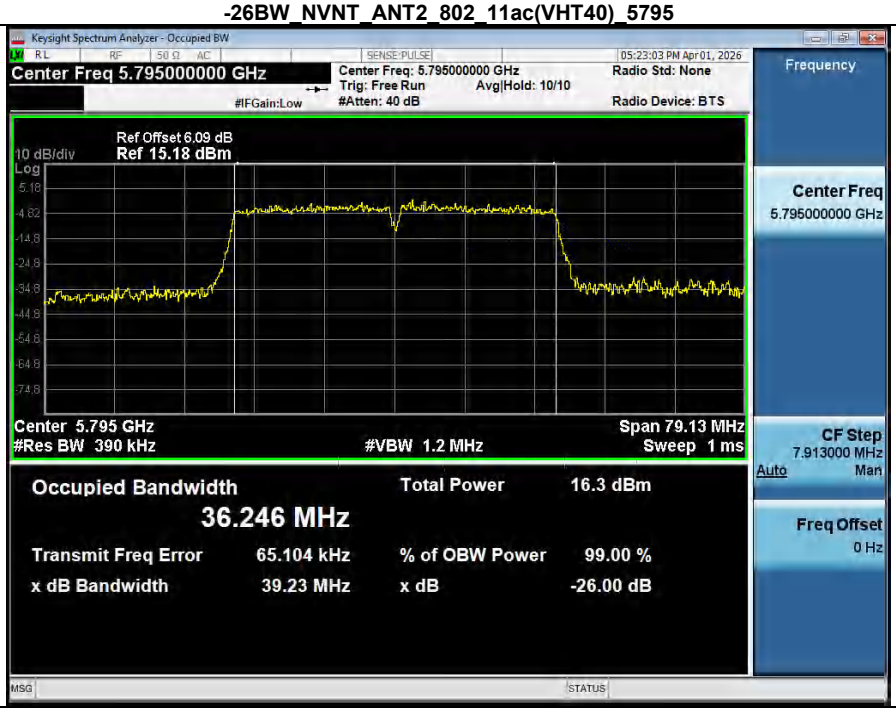


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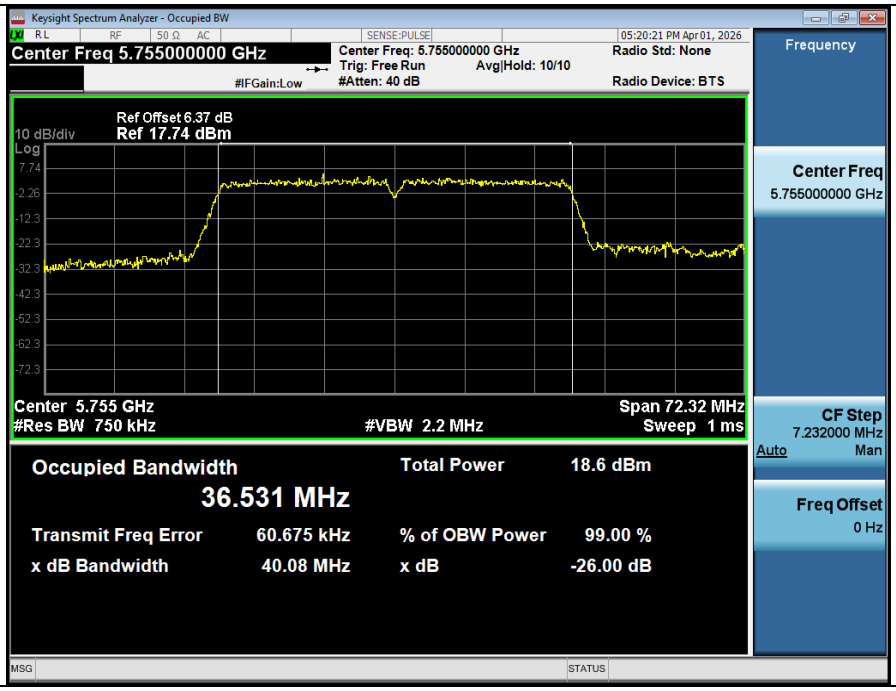


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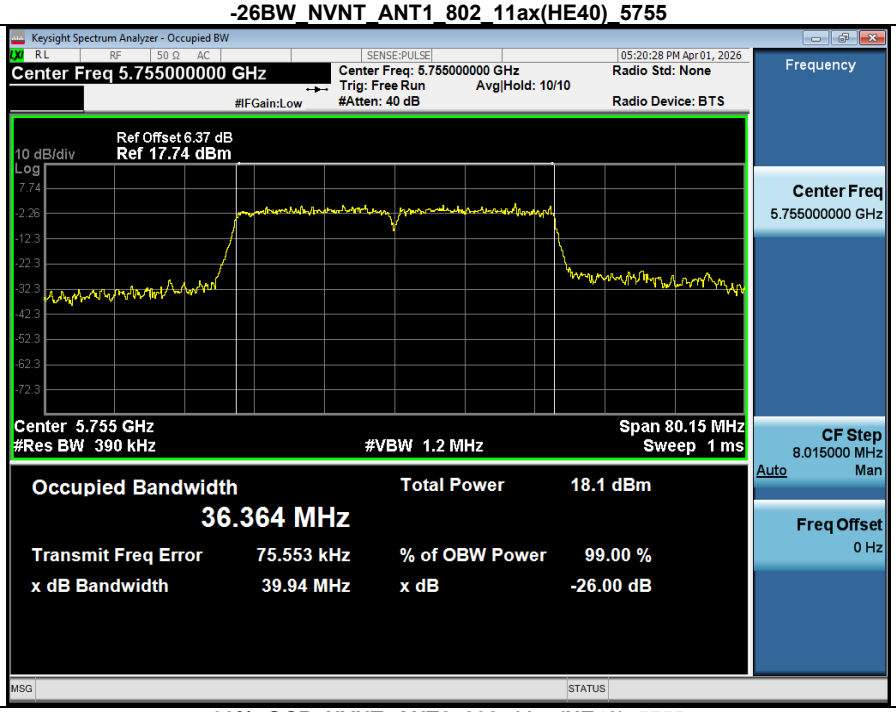


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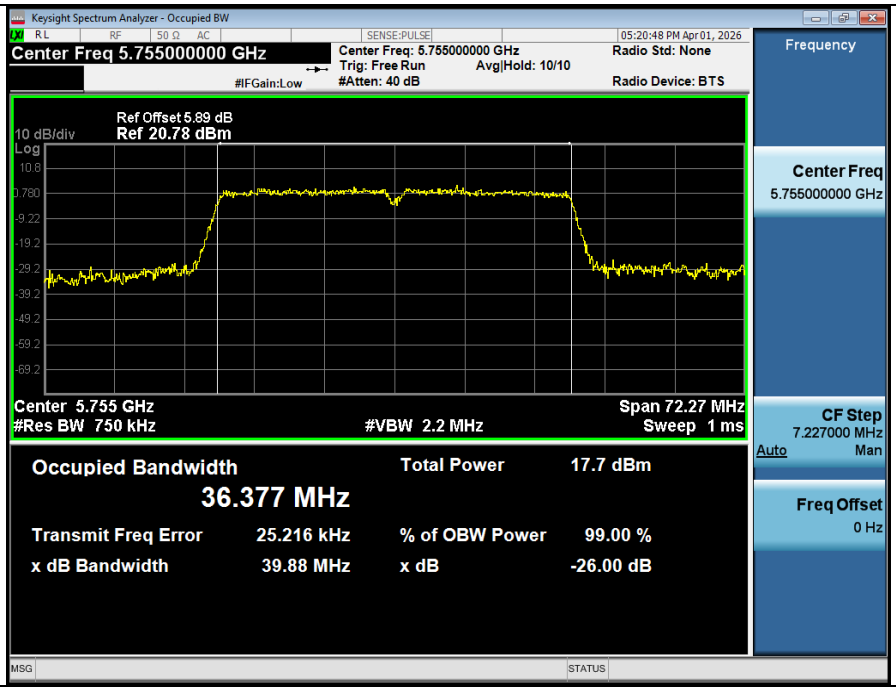


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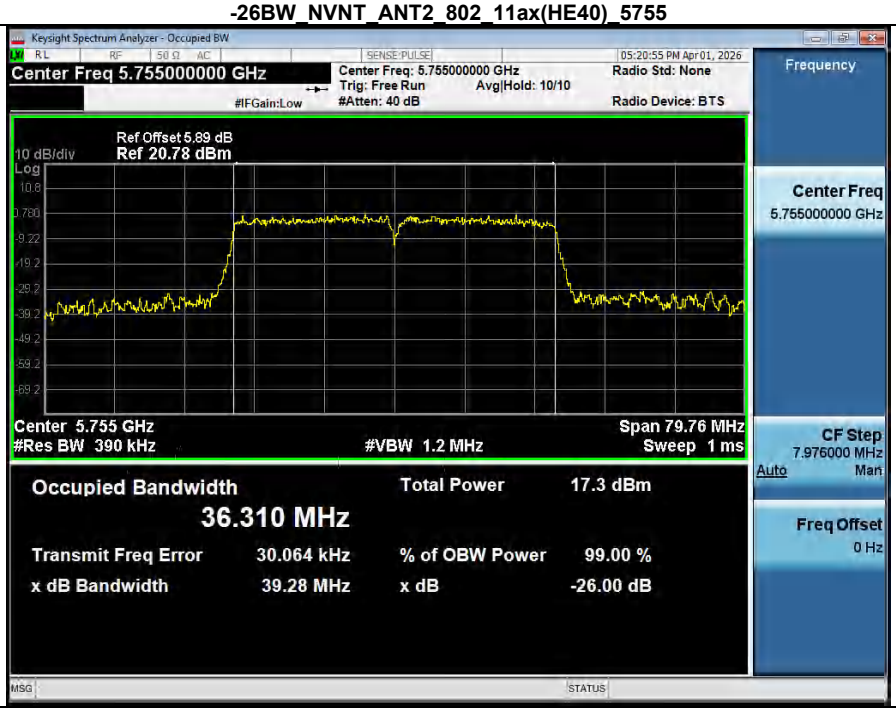


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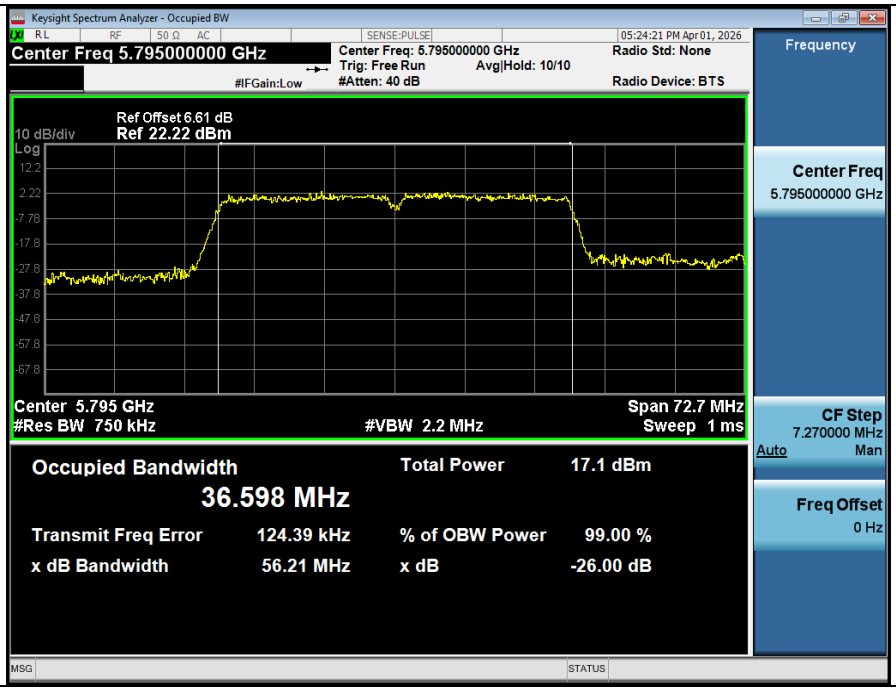


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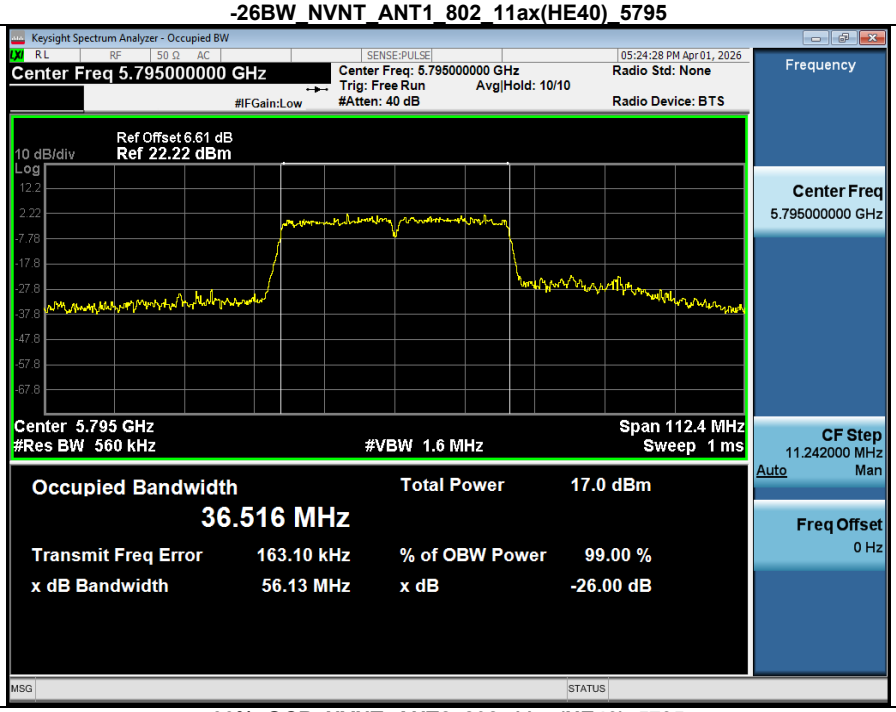


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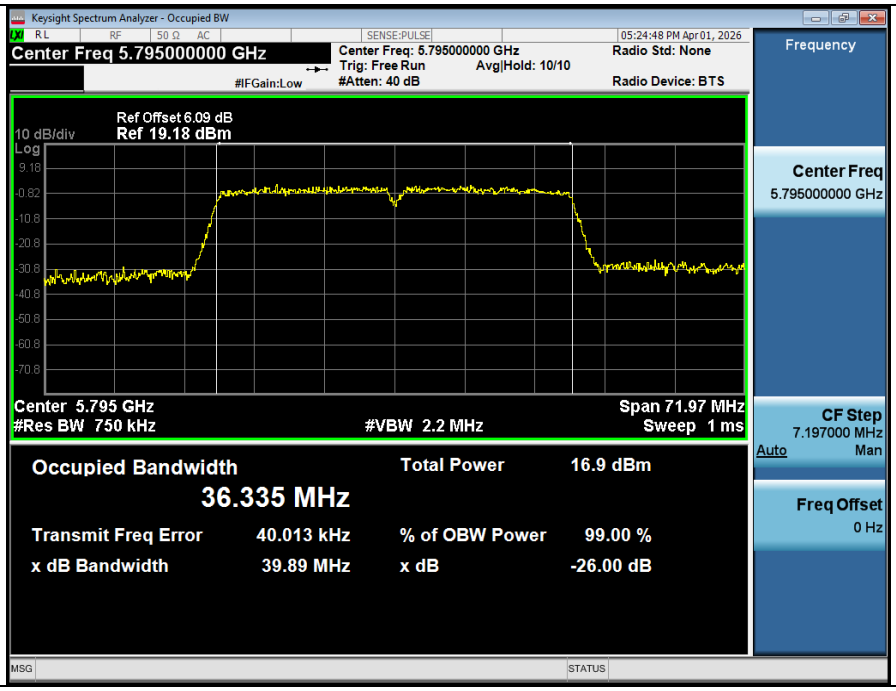
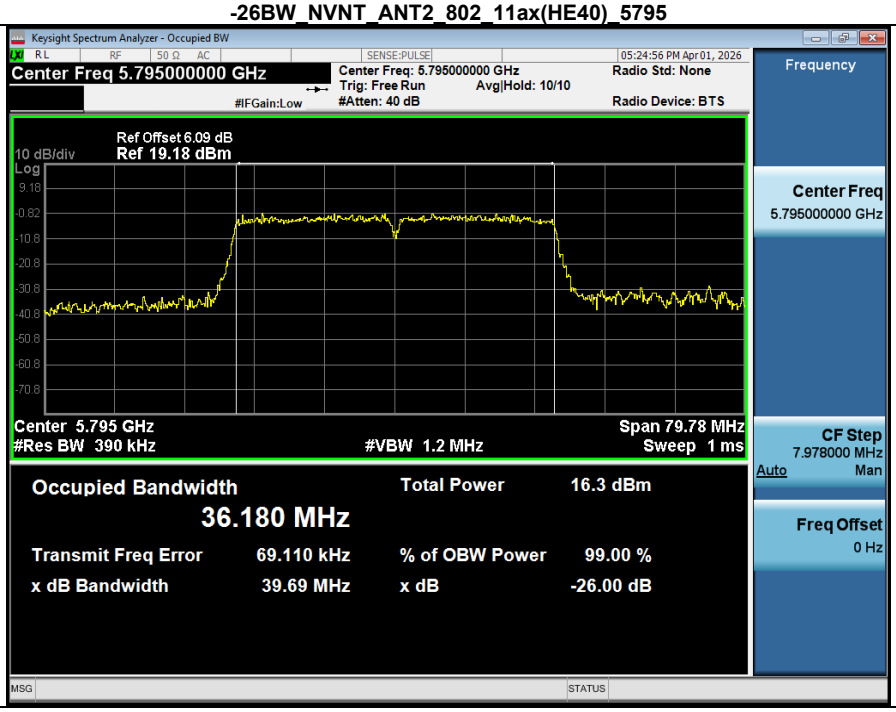
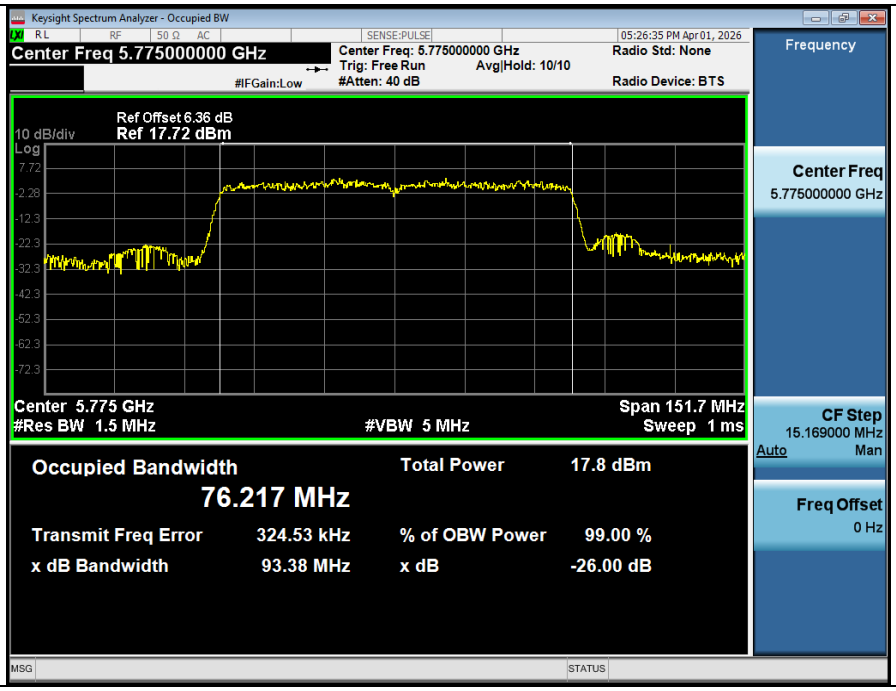


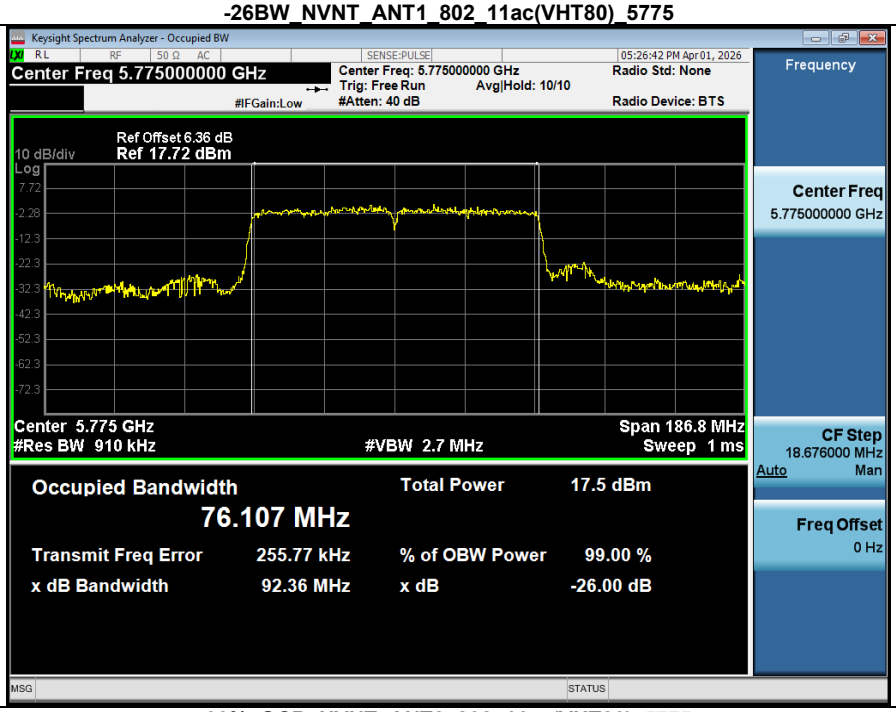

**-26BW_NVNT_ANT2_802_11ax(HE40)_5795**



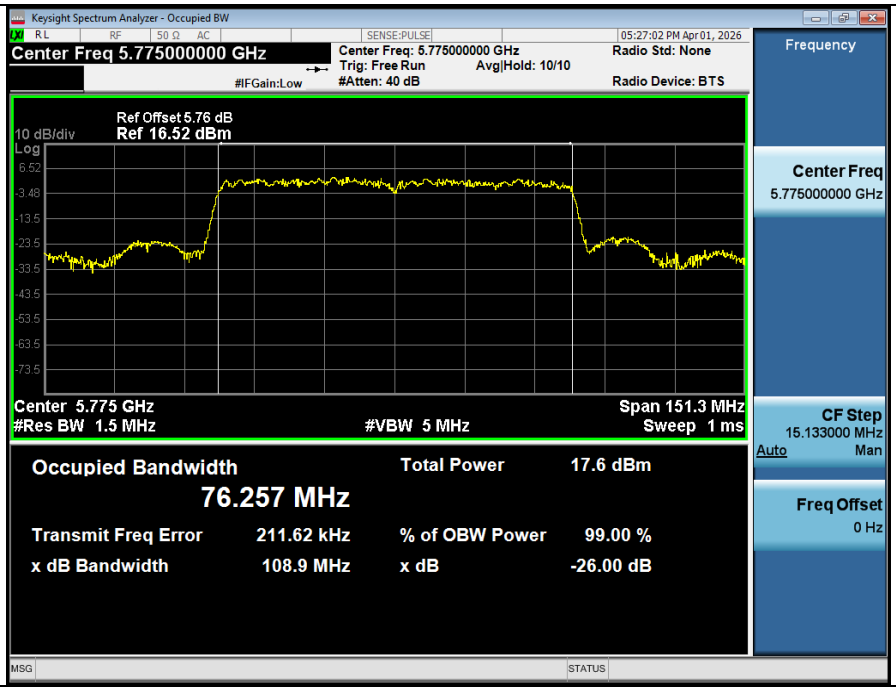

**99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5775**



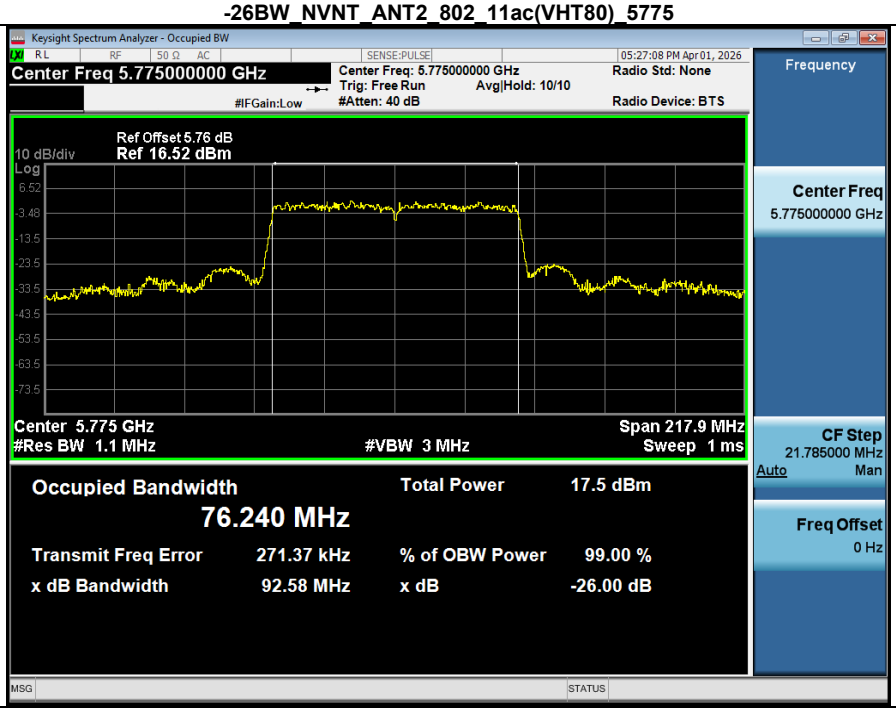

-26BW_NVNT_ANT1_802_11ac(VHT80)_5775



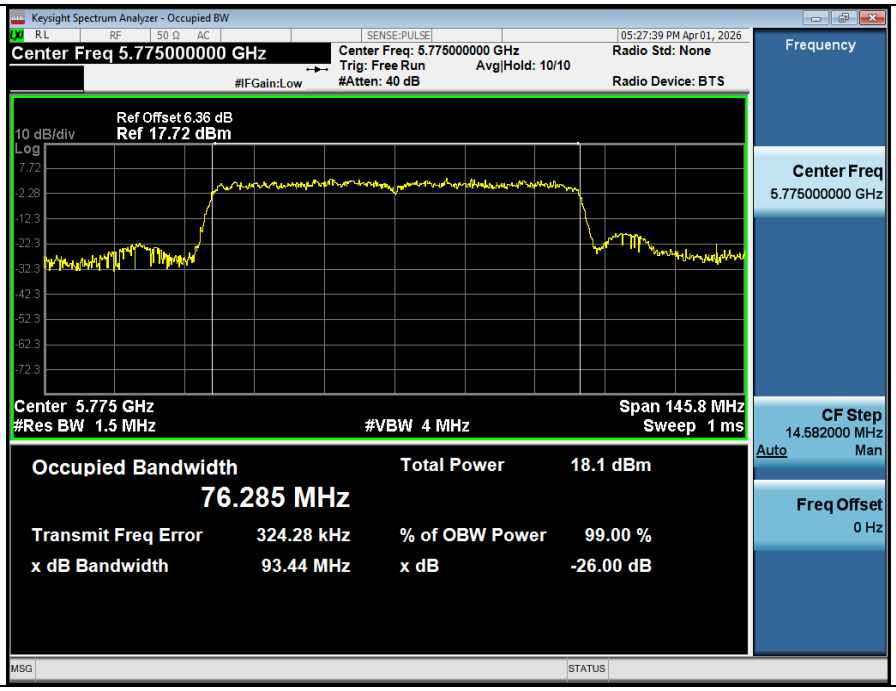

99%_OCB_NVNT_ANT2_802_11ac(VHT80)_5775



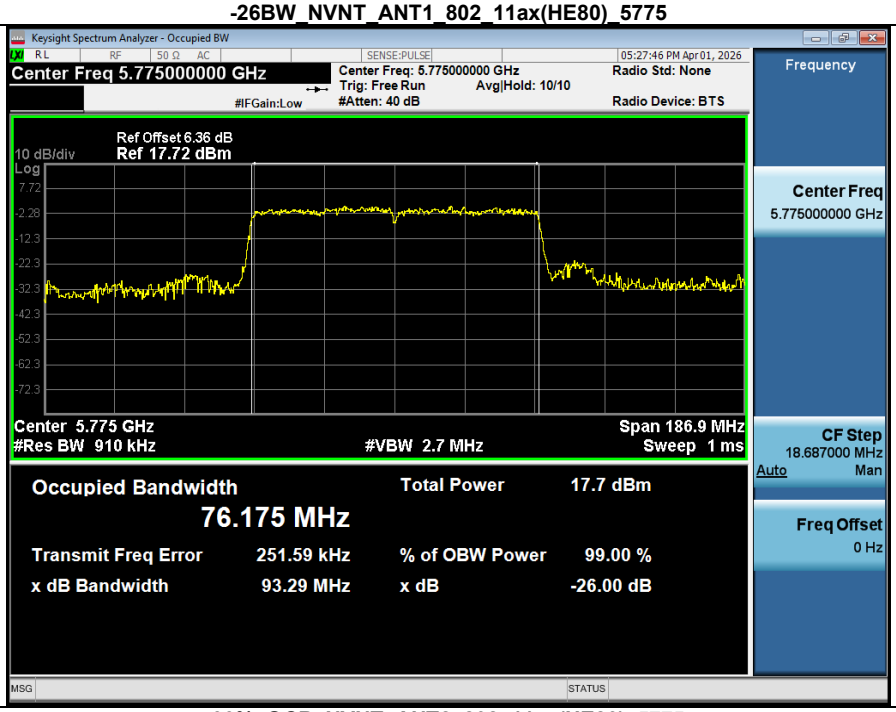

**-26BW_NVNT_ANT2_802_11ac(VHT80)_5775**



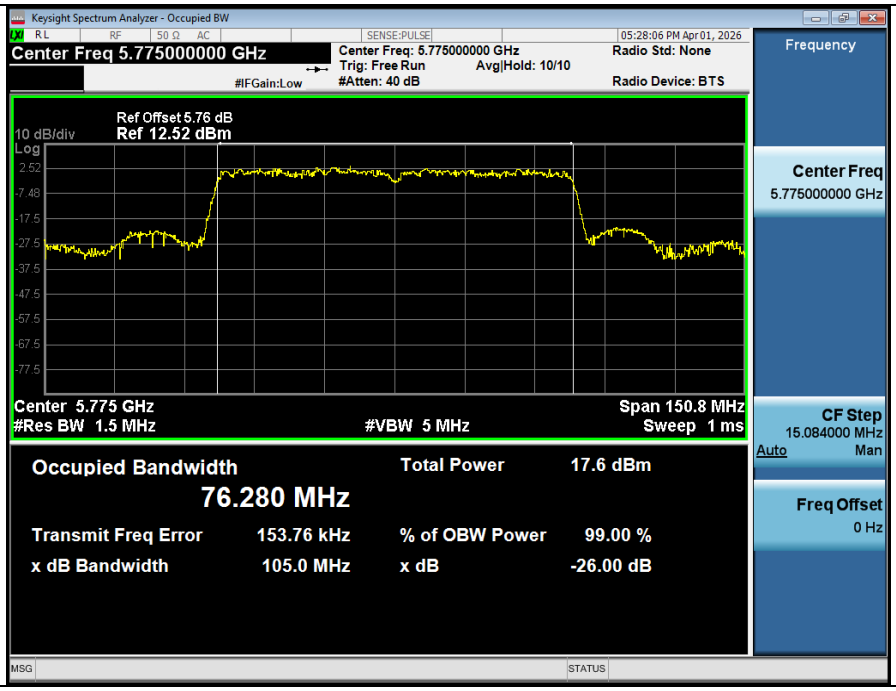

**99%_OCB_NVNT_ANT1_802_11ax(HE80)_5775**



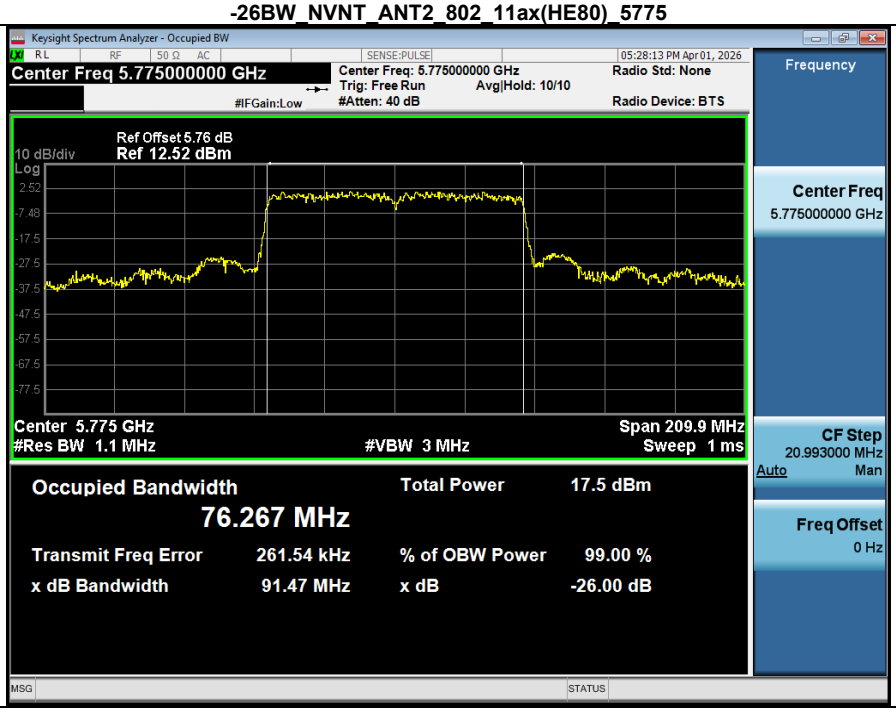

**-26BW_NVNT_ANT1_802_11ax(HE80)_5775**




**99%_OCB_NVNT_ANT2_802_11ax(HE80)_5775**




-26BW_NVNT_ANT2_802_11ax(HE80)_5775



# 2. Maximum output power

## 2.1 Test Data

## U-NII-1:

| Antenna | Modulation | Frequency (MHz) | Conducted Power (dBm) | FCC Conducted Limit (dBm) | IC EIRP Limit (dBm) | Gain (dBi) | EIRP (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| ANT1 | 802.11a | 5180.00 | 15.95 | 24 | 22.17 | 1.77 | 14.99 | Pass |
| ANT2 | 802.11a | 5180.00 | 15.09 | 24 | 22.17 | 1.77 | 15.98 | Pass |
| ANT1 | 802.11a | 5200.00 | 15.74 | 24 | 22.17 | 1.77 | 16.04 | Pass |
| ANT2 | 802.11a | 5200.00 | 14.62 | 24 | 22.17 | 1.77 | 15.37 | Pass |
| ANT1 | 802.11a | 5240.00 | 16.42 | 24 | 22.17 | 1.77 | 16.00 | Pass |
| ANT2 | 802.11a | 5240.00 | 15.07 | 24 | 22.17 | 1.77 | 15.18 | Pass |
| ANT1 | 802.11n(HT20) | 5180.00 | 12.70 | 24 | 22.47 | 1.77 | 14.93 | Pass |
| ANT2 | 802.11n(HT20) | 5180.00 | 11.85 | 24 | 22.47 | 1.77 | 14.73 | Pass |
| ANT1 | 802.11n(HT20) | 5200.00 | 12.90 | 24 | 22.47 | 1.77 | 15.17 | Pass |
| ANT2 | 802.11n(HT20) | 5200.00 | 11.82 | 24 | 22.47 | 1.77 | 14.13 | Pass |
| ANT1 | 802.11n(HT20) | 5240.00 | 13.66 | 24 | 22.47 | 1.77 | 15.61 | Pass |
| ANT2 | 802.11n(HT20) | 5240.00 | 11.69 | 24 | 22.47 | 1.77 | 13.41 | Pass |
| ANT1 | 802.11ac(VHT20) | 5180.00 | 14.39 | 24 | 22.50 | 1.77 | 16.02 | Pass |
| ANT2 | 802.11ac(VHT20) | 5180.00 | 12.80 | 24 | 22.50 | 1.77 | 16.23 | Pass |
| ANT1 | 802.11ac(VHT20) | 5200.00 | 14.56 | 24 | 22.50 | 1.77 | 16.40 | Pass |
| ANT2 | 802.11ac(VHT20) | 5200.00 | 13.07 | 24 | 22.50 | 1.77 | 15.31 | Pass |
| ANT1 | 802.11ac(VHT20) | 5240.00 | 14.86 | 24 | 22.50 | 1.77 | 17.06 | Pass |
| ANT2 | 802.11ac(VHT20) | 5240.00 | 13.15 | 24 | 22.50 | 1.77 | 14.60 | Pass |
| ANT1 | 802.11ax(HE20) | 5180.00 | 14.61 | 24 | 22.78 | 1.77 | 13.66 | Pass |
| ANT2 | 802.11ax(HE20) | 5180.00 | 13.36 | 24 | 22.78 | 1.77 | 13.43 | Pass |
| ANT1 | 802.11ax(HE20) | 5200.00 | 14.51 | 24 | 22.78 | 1.77 | 16.68 | Pass |
| ANT2 | 802.11ax(HE20) | 5200.00 | 13.41 | 24 | 22.78 | 1.77 | 16.23 | Pass |
| ANT1 | 802.11ax(HE20) | 5240.00 | 14.90 | 24 | 22.78 | 1.77 | 16.91 | Pass |
| ANT2 | 802.11ax(HE20) | 5240.00 | 13.06 | 24 | 22.78 | 1.77 | 15.44 | Pass |
| ANT1 | 802.11n(HT40) | 5190.00 | 12.55 | 24 | 23.01 | 1.77 | 14.02 | Pass |
| ANT2 | 802.11n(HT40) | 5190.00 | 12.13 | 24 | 23.01 | 1.77 | 12.71 | Pass |
| ANT1 | 802.11n(HT40) | 5230.00 | 13.14 | 24 | 23.01 | 1.77 | 15.64 | Pass |
| ANT2 | 802.11n(HT40) | 5230.00 | 12.58 | 24 | 23.01 | 1.77 | 13.19 | Pass |
| ANT1 | 802.11ac(VHT40) | 5190.00 | 14.04 | 24 | 23.01 | 1.77 | 16.87 | Pass |
| ANT2 | 802.11ac(VHT40) | 5190.00 | 13.78 | 24 | 23.01 | 1.77 | 15.53 | Pass |
| ANT1 | 802.11ac(VHT40) | 5230.00 | 14.53 | 24 | 23.01 | 1.77 | 18.00 | Pass |
| ANT2 | 802.11ac(VHT40) | 5230.00 | 13.43 | 24 | 23.01 | 1.77 | 15.24 | Pass |
| ANT1 | 802.11ax(HE40) | 5190.00 | 14.03 | 24 | 23.01 | 1.77 | 17.27 | Pass |
| ANT2 | 802.11ax(HE40) | 5190.00 | 13.72 | 24 | 23.01 | 1.77 | 15.80 | Pass |
| ANT1 | 802.11ax(HE40) | 5230.00 | 14.74 | 24 | 23.01 | 1.77 | 17.91 | Pass |
| ANT2 | 802.11ax(HE40) | 5230.00 | 13.46 | 24 | 23.01 | 1.77 | 14.51 | Pass |
| ANT1 | 802.11ac(VHT80) | 5210.00 | 16.03 | 24 | 23.01 | 1.77 | 18.60 | Pass |
| ANT2 | 802.11ac(VHT80) | 5210.00 | 14.39 | 24 | 23.01 | 1.77 | 16.84 | Pass |
| ANT1 | 802.11ax(HE80) | 5210.00 | 15.43 | 24 | 23.01 | 1.77 | 18.46 | Pass |
| ANT2 | 802.11ax(HE80) | 5210.00 | 14.53 | 24 | 23.01 | 1.77 | 17.09 | Pass |

| Condition | Antenna | Mode | Frequency (MHz) | MIMO_Conducted _Power(dBm) | FCC Conducted Limit (dBm) | IC EIRP Limit (dBm) | Max Gain (dBi) | EIRP (dBm) | Result |
|---|---|---|---|---|---|---|---|---|---|
| NVNT | MIMO_TX | 802.11n(HT20) | 5180.00 | 16.07 | 24 | 22.47 | 1.77 | 17.84 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5200.00 | 15.92 | 24 | 22.47 | 1.77 | 17.69 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5240.00 | 15.89 | 24 | 22.47 | 1.77 | 17.66 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5180.00 | 17.37 | 24 | 22.50 | 1.77 | 19.14 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5200.00 | 17.13 | 24 | 22.50 | 1.77 | 18.9 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5240.00 | 17.24 | 24 | 22.50 | 1.77 | 19.01 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5180.00 | 14.79 | 24 | 22.78 | 1.77 | 16.56 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5200.00 | 17.70 | 24 | 22.78 | 1.77 | 19.47 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5240.00 | 17.48 | 24 | 22.78 | 1.77 | 19.25 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5190.00 | 14.65 | 24 | 23.01 | 1.77 | 16.42 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5230.00 | 15.83 | 24 | 23.01 | 1.77 | 17.6 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5190.00 | 17.49 | 24 | 23.01 | 1.77 | 19.26 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5230.00 | 18.08 | 24 | 23.01 | 1.77 | 19.85 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5190.00 | 17.84 | 24 | 23.01 | 1.77 | 19.61 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5230.00 | 17.77 | 24 | 23.01 | 1.77 | 19.54 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT80) | 5210.00 | 19.05 | 24 | 23.01 | 1.77 | 20.82 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE80) | 5210.00 | 19.07 | 24 | 23.01 | 1.77 | 20.84 | Pass |

Note:
1) The cable loss is taken into account in results.
2)Antenna Gain: 1.77 dBi;
3 ISED EIRP limits: the lower of 200 mW or 10+10 log B, dBm. B is the 99% emission bandwidth in MHz

## U-NII-3:

| Condition | Antenna | Modulation | Frequency (MHz) | Conducted Power(dBm) | Duty factor(dB) | Total Power(dBm) | Limit (dBm) | Gain (dBi) | EIRP (dBm) | Result |
|---|---|---|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5745.00 | 13.45 | 0.33 | 13.78 | 30 | 3.08 | 16.86 | Pass |
| NVNT | ANT2 | 802.11a | 5745.00 | 12.50 | 0.17 | 12.67 | 30 | 3.08 | 15.75 | Pass |
| NVNT | ANT1 | 802.11a | 5785.00 | 12.59 | 0.33 | 12.92 | 30 | 3.08 | 16 | Pass |
| NVNT | ANT2 | 802.11a | 5785.00 | 12.33 | 0.33 | 12.66 | 30 | 3.08 | 15.74 | Pass |
| NVNT | ANT1 | 802.11a | 5825.00 | 12.32 | 0.33 | 12.65 | 30 | 3.08 | 15.73 | Pass |
| NVNT | ANT2 | 802.11a | 5825.00 | 12.59 | 0.33 | 12.92 | 30 | 3.08 | 16 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5745.00 | 13.57 | 0.24 | 13.81 | 30 | 3.08 | 16.89 | Pass |
| NVNT | ANT2 | 802.11n(HT20) | 5745.00 | 12.65 | 0.24 | 12.89 | 30 | 3.08 | 15.97 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5785.00 | 12.35 | 0.24 | 12.59 | 30 | 3.08 | 15.67 | Pass |
| NVNT | ANT2 | 802.11n(HT20) | 5785.00 | 12.45 | 0.24 | 12.69 | 30 | 3.08 | 15.77 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5825.00 | 11.80 | 0.37 | 12.17 | 30 | 3.08 | 15.25 | Pass |
| NVNT | ANT2 | 802.11n(HT20) | 5825.00 | 12.26 | 0.37 | 12.63 | 30 | 3.08 | 15.71 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5745.00 | 11.97 | 2.11 | 14.08 | 30 | 3.08 | 17.16 | Pass |
| NVNT | ANT2 | 802.11ac(VHT20) | 5745.00 | 11.03 | 2.11 | 13.14 | 30 | 3.08 | 16.22 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5785.00 | 10.68 | 1.92 | 12.60 | 30 | 3.08 | 15.68 | Pass |
| NVNT | ANT2 | 802.11ac(VHT20) | 5785.00 | 10.52 | 2.11 | 12.63 | 30 | 3.08 | 15.71 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5825.00 | 10.37 | 2.11 | 12.48 | 30 | 3.08 | 15.56 | Pass |
| NVNT | ANT2 | 802.11ac(VHT20) | 5825.00 | 10.80 | 2.11 | 12.91 | 30 | 3.08 | 15.99 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5745.00 | 11.15 | 2.63 | 13.78 | 30 | 3.08 | 16.86 | Pass |
| NVNT | ANT2 | 802.11ax(HE20) | 5745.00 | 10.36 | 2.63 | 12.99 | 30 | 3.08 | 16.07 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5785.00 | 10.44 | 3.01 | 13.45 | 30 | 3.08 | 16.53 | Pass |
| NVNT | ANT2 | 802.11ax(HE20) | 5785.00 | 10.23 | 3.01 | 13.24 | 30 | 3.08 | 16.32 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5825.00 | 9.77 | 3.01 | 12.78 | 30 | 3.08 | 15.86 | Pass |
| NVNT | ANT2 | 802.11ax(HE20) | 5825.00 | 10.31 | 2.63 | 12.94 | 30 | 3.08 | 16.02 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5755.00 | 12.86 | 0.79 | 13.65 | 30 | 3.08 | 16.73 | Pass |
| NVNT | ANT2 | 802.11n(HT40) | 5755.00 | 11.56 | 0.82 | 12.38 | 30 | 3.08 | 15.46 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5795.00 | 12.19 | 0.82 | 13.01 | 30 | 3.08 | 16.09 | Pass |
| NVNT | ANT2 | 802.11n(HT40) | 5795.00 | 11.61 | 0.79 | 12.40 | 30 | 3.08 | 15.48 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5755.00 | 12.71 | 3.01 | 15.72 | 30 | 3.08 | 18.8 | Pass |
| NVNT | ANT2 | 802.11ac(VHT40) | 5755.00 | 10.96 | 3.01 | 13.97 | 30 | 3.08 | 17.05 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5795.00 | 12.03 | 2.63 | 14.66 | 30 | 3.08 | 17.74 | Pass |
| NVNT | ANT2 | 802.11ac(VHT40) | 5795.00 | 11.04 | 2.63 | 13.67 | 30 | 3.08 | 16.75 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5755.00 | 12.91 | 3.01 | 15.92 | 30 | 3.08 | 19 | Pass |
| NVNT | ANT2 | 802.11ax(HE40) | 5755.00 | 11.02 | 3.01 | 14.03 | 30 | 3.08 | 17.11 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5795.00 | 12.20 | 3.01 | 15.21 | 30 | 3.08 | 18.29 | Pass |
| NVNT | ANT2 | 802.11ax(HE40) | 5795.00 | 11.10 | 3.01 | 14.11 | 30 | 3.08 | 17.19 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5775.00 | 13.26 | 4.26 | 17.52 | 30 | 3.08 | 20.6 | Pass |
| NVNT | ANT2 | 802.11ac(VHT80) | 5775.00 | 11.20 | 4.26 | 15.46 | 30 | 3.08 | 18.54 | Pass |
| NVNT | ANT1 | 802.11ax(HE80) | 5775.00 | 11.88 | 3.52 | 15.40 | 30 | 3.08 | 18.48 | Pass |
| NVNT | ANT2 | 802.11ax(HE80) | 5775.00 | 10.39 | 3.52 | 13.91 | 30 | 3.08 | 16.99 | Pass |

| Condition | Antenna | Mode | Frequency (MHz) | MIMO_Conducted _Power(dBm) | Limit (dBm) | Max Gain (dBi) | EIRP (dBm) | Result |
|---|---|---|---|---|---|---|---|---|
| NVNT | MIMO_TX | 802.11n(HT20) | 5745.00 | 16.39 | 30 | 3.08 | 19.47 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5785.00 | 15.65 | 30 | 3.08 | 18.73 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5825.00 | 15.42 | 30 | 3.08 | 18.5 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5745.00 | 14.54 | 30 | 3.08 | 17.62 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5785.00 | 15.63 | 30 | 3.08 | 18.71 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5825.00 | 15.71 | 30 | 3.08 | 18.79 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5745.00 | 13.78 | 30 | 3.08 | 16.86 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5785.00 | 16.35 | 30 | 3.08 | 19.43 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5825.00 | 15.87 | 30 | 3.08 | 18.95 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5755.00 | 15.27 | 30 | 3.08 | 18.35 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5795.00 | 15.72 | 30 | 3.08 | 18.8 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5755.00 | 17.94 | 30 | 3.08 | 21.02 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5795.00 | 17.20 | 30 | 3.08 | 20.28 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5755.00 | 15.08 | 30 | 3.08 | 18.16 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5795.00 | 17.70 | 30 | 3.08 | 20.78 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT80) | 5775.00 | 15.36 | 30 | 3.08 | 18.44 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE80) | 5775.00 | 17.72 | 30 | 3.08 | 20.8 | Pass |

Note:
1) The cable loss is taken into account in results.
2)Antenna Gain: 3.08 dBi

# 3. Power Spectral Density

## 3.1 Test Datas Bands U-NII-1

| Antenna | Modulation | Frequency (MHz) | PSD (dBm/MHz) | Duty factor(dB) | Final PSD (dBm/MHz) | EIRP (dBm/MHz) | FCC Conducted limit(dBm/MHz) | ISED EIRP Limit (dBm/MHz) | Result |
|---|---|---|---|---|---|---|---|---|---|
| ANT1 | 802.11a | 5180.00 | -0.92 | 0.35 | -0.57 | 1.20 | 11 | 10 | Pass |
| ANT2 | 802.11a | 5180.00 | -0.93 | 0.33 | -0.60 | 1.17 | 11 | 10 | Pass |
| ANT1 | 802.11a | 5200.00 | -1.61 | 0.35 | -1.26 | 0.51 | 11 | 10 | Pass |
| ANT2 | 802.11a | 5200.00 | -1.58 | 0.33 | -1.25 | 0.52 | 11 | 10 | Pass |
| ANT1 | 802.11a | 5240.00 | -0.54 | 0.33 | -0.21 | 1.56 | 11 | 10 | Pass |
| ANT2 | 802.11a | 5240.00 | -2.29 | 0.33 | -1.96 | -0.19 | 11 | 10 | Pass |
| ANT1 | 802.11n(HT20) | 5180.00 | -0.62 | 0.24 | -0.38 | 1.39 | 11 | 10 | Pass |
| ANT2 | 802.11n(HT20) | 5180.00 | -1.54 | 0.36 | -1.18 | 0.59 | 11 | 10 | Pass |
| ANT1 | 802.11n(HT20) | 5200.00 | -1.26 | 0.37 | -0.89 | 0.88 | 11 | 10 | Pass |
| ANT2 | 802.11n(HT20) | 5200.00 | -3.12 | 0.24 | -2.88 | -1.11 | 11 | 10 | Pass |
| ANT1 | 802.11n(HT20) | 5240.00 | -0.04 | 0.36 | 0.32 | 2.09 | 11 | 10 | Pass |
| ANT2 | 802.11n(HT20) | 5240.00 | -3.34 | 0.24 | -3.10 | -1.33 | 11 | 10 | Pass |
| ANT1 | 802.11ac(VHT20) | 5180.00 | -0.25 | 1.60 | 1.35 | 3.12 | 11 | 10 | Pass |
| ANT2 | 802.11ac(VHT20) | 5180.00 | -1.38 | 2.11 | 0.73 | 2.50 | 11 | 10 | Pass |
| ANT1 | 802.11ac(VHT20) | 5200.00 | -0.32 | 2.11 | 1.79 | 3.56 | 11 | 10 | Pass |
| ANT2 | 802.11ac(VHT20) | 5200.00 | -1.34 | 1.92 | 0.58 | 2.35 | 11 | 10 | Pass |
| ANT1 | 802.11ac(VHT20) | 5240.00 | 0.69 | 2.11 | 2.79 | 4.56 | 11 | 10 | Pass |
| ANT2 | 802.11ac(VHT20) | 5240.00 | -0.75 | 1.92 | 1.17 | 2.94 | 11 | 10 | Pass |
| ANT1 | 802.11ax(HE20) | 5180.00 | -0.11 | 3.01 | 2.90 | 4.67 | 11 | 10 | Pass |
| ANT2 | 802.11ax(HE20) | 5180.00 | -1.03 | 3.01 | 1.98 | 3.75 | 11 | 10 | Pass |
| ANT1 | 802.11ax(HE20) | 5200.00 | -0.40 | 2.63 | 2.23 | 4.00 | 11 | 10 | Pass |
| ANT2 | 802.11ax(HE20) | 5200.00 | -0.66 | 3.01 | 2.35 | 4.12 | 11 | 10 | Pass |
| ANT1 | 802.11ax(HE20) | 5240.00 | 0.52 | 2.63 | 3.15 | 4.92 | 11 | 10 | Pass |
| ANT2 | 802.11ax(HE20) | 5240.00 | -0.33 | 3.01 | 2.68 | 4.45 | 11 | 10 | Pass |
| ANT1 | 802.11n(HT40) | 5190.00 | -8.55 | 0.82 | -7.73 | -5.96 | 11 | 10 | Pass |
| ANT2 | 802.11n(HT40) | 5190.00 | -9.68 | 0.79 | -8.89 | -7.12 | 11 | 10 | Pass |
| ANT1 | 802.11n(HT40) | 5230.00 | -8.60 | 0.79 | -7.81 | -6.04 | 11 | 10 | Pass |
| ANT2 | 802.11n(HT40) | 5230.00 | -10.15 | 0.79 | -9.36 | -7.59 | 11 | 10 | Pass |
| ANT1 | 802.11ac(VHT40) | 5190.00 | -10.35 | 3.01 | -7.34 | -5.57 | 11 | 10 | Pass |
| ANT2 | 802.11ac(VHT40) | 5190.00 | -9.84 | 3.01 | -6.83 | -5.06 | 11 | 10 | Pass |
| ANT1 | 802.11ac(VHT40) | 5230.00 | -9.53 | 3.01 | -6.52 | -4.75 | 11 | 10 | Pass |
| ANT2 | 802.11ac(VHT40) | 5230.00 | -9.79 | 3.01 | -6.78 | -5.01 | 11 | 10 | Pass |
| ANT1 | 802.11ax(HE40) | 5190.00 | -9.44 | 3.01 | -6.43 | -4.66 | 11 | 10 | Pass |
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| ANT1 | 802.11ax(HE40) | 5230.00 | -8.62 | 3.01 | -5.61 | -3.84 | 11 | 10 | Pass |
| ANT2 | 802.11ax(HE40) | 5230.00 | -10.21 | 2.63 | -7.58 | -5.81 | 11 | 10 | Pass |
| ANT1 | 802.11ac(VHT80) | 5210.00 | -8.31 | 4.26 | -4.05 | -2.28 | 11 | 10 | Pass |
| ANT2 | 802.11ac(VHT80) | 5210.00 | -8.60 | 4.26 | -4.34 | -2.57 | 11 | 10 | Pass |
| ANT1 | 802.11ax(HE80) | 5210.00 | -8.37 | 4.26 | -4.11 | -2.34 | 11 | 10 | Pass |
| ANT2 | 802.11ax(HE80) | 5210.00 | -9.27 | 4.26 | -5.01 | -3.24 | 11 | 10 | Pass |

Note:
1) Antenna Gain: 1.77 dBi for ANT 1/2.

| Condition | Antenna | Mode | Frequency (MHz) | MIMO PSD(dBm/MHz) | EIRP (dBm/MHz) | FCC Conducted limit(dBm/MHz) | ISED EIRP Limit (dBm/MHz) | Result |
|---|---|---|---|---|---|---|---|---|
| NVNT | MIMO_TX | 802.11n(HT20) | 5180.00 | 1.53 | 6.3 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5200.00 | 0.64 | 5.41 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5240.00 | 1.67 | 6.44 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5180.00 | 3.74 | 8.51 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5200.00 | 3.65 | 8.42 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5240.00 | 4.53 | 9.3 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5180.00 | 5.1 | 9.87 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5200.00 | 4.74 | 9.51 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5240.00 | 5.1 | 9.87 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5190.00 | -6.4 | -1.63 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5230.00 | -6.98 | -2.21 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5190.00 | -4.59 | 0.18 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5230.00 | -4.81 | -0.04 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5190.00 | -3.78 | 0.99 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5230.00 | -4.13 | 0.64 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT80) | 5210.00 | -1.56 | 3.21 | 11 | 10 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE80) | 5210.00 | -1.56 | 3.21 | 11 | 10 | Pass |

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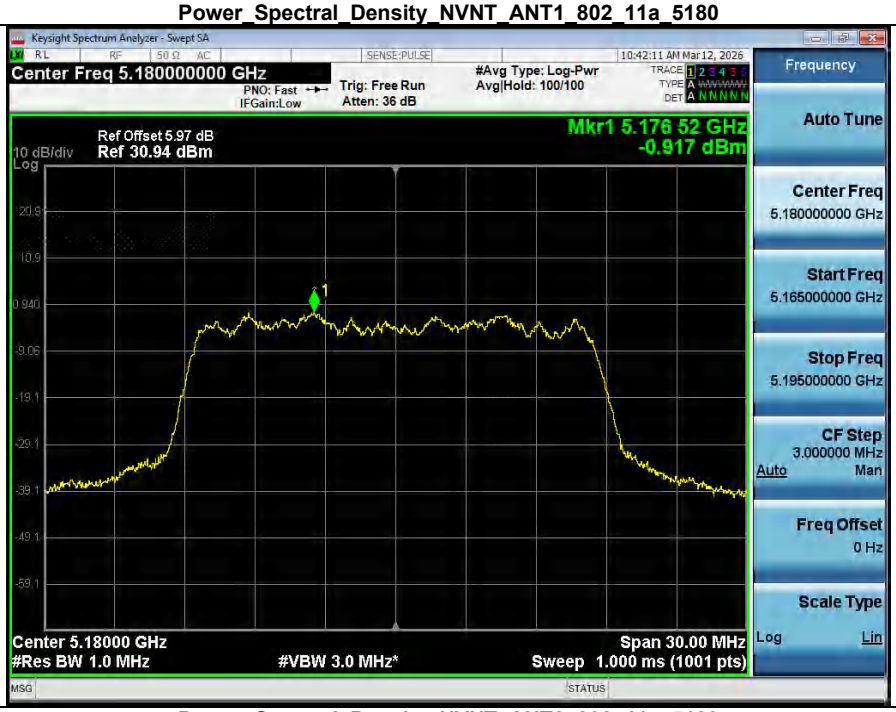
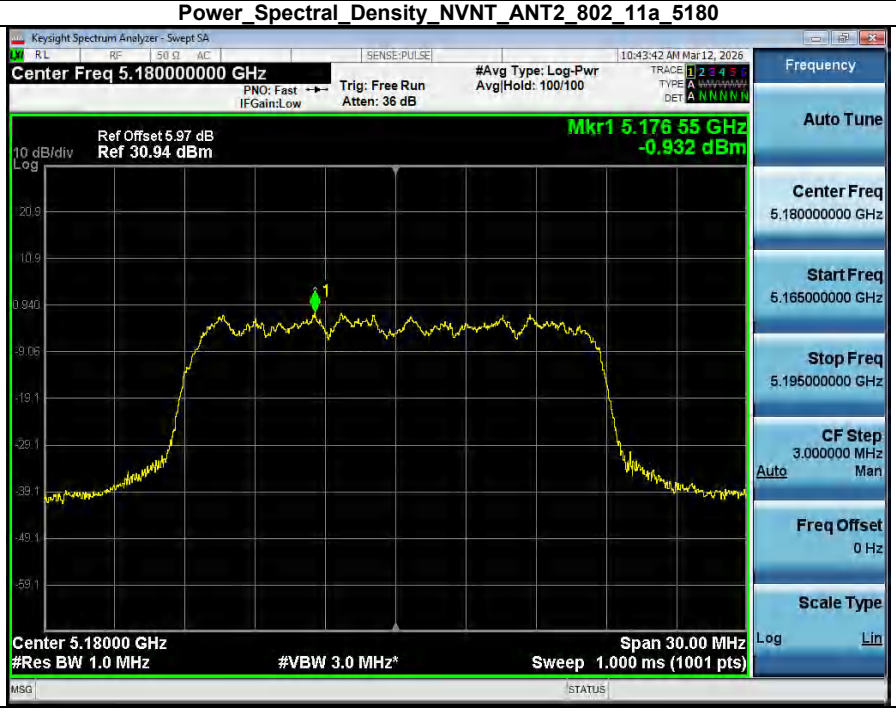
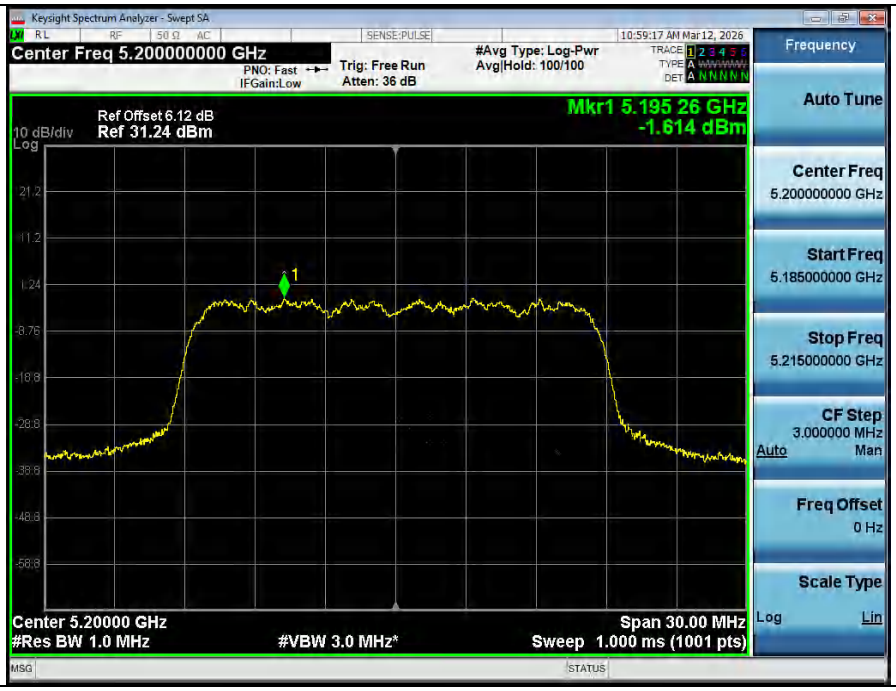
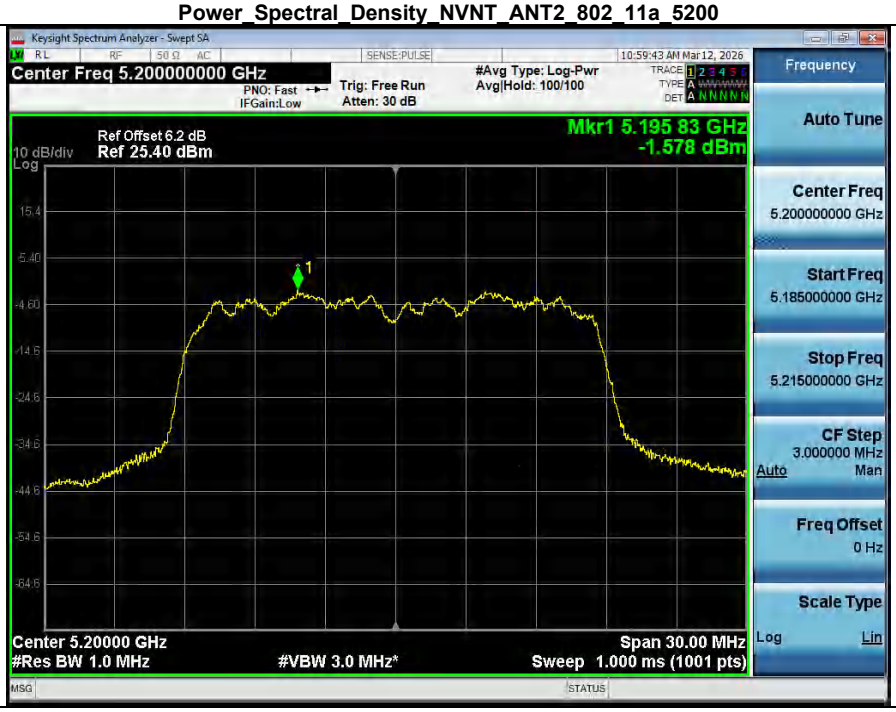
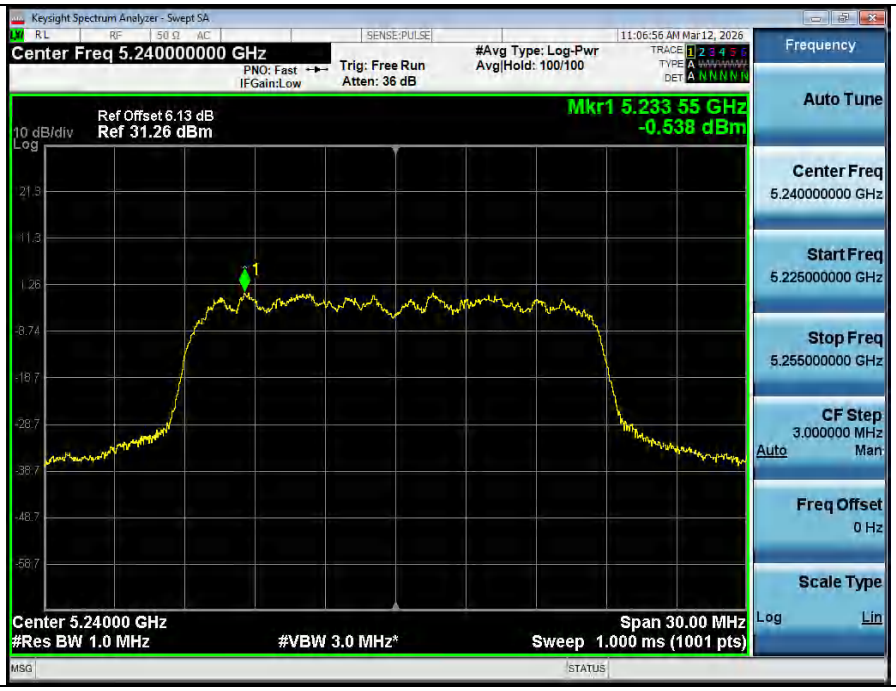
|  |
| Power_Spectral_Density_NVNT_ANT2_802_11a_5180 |
|  |
| Power_Spectral_Density_NVNT_ANT1_802_11a_5200 |



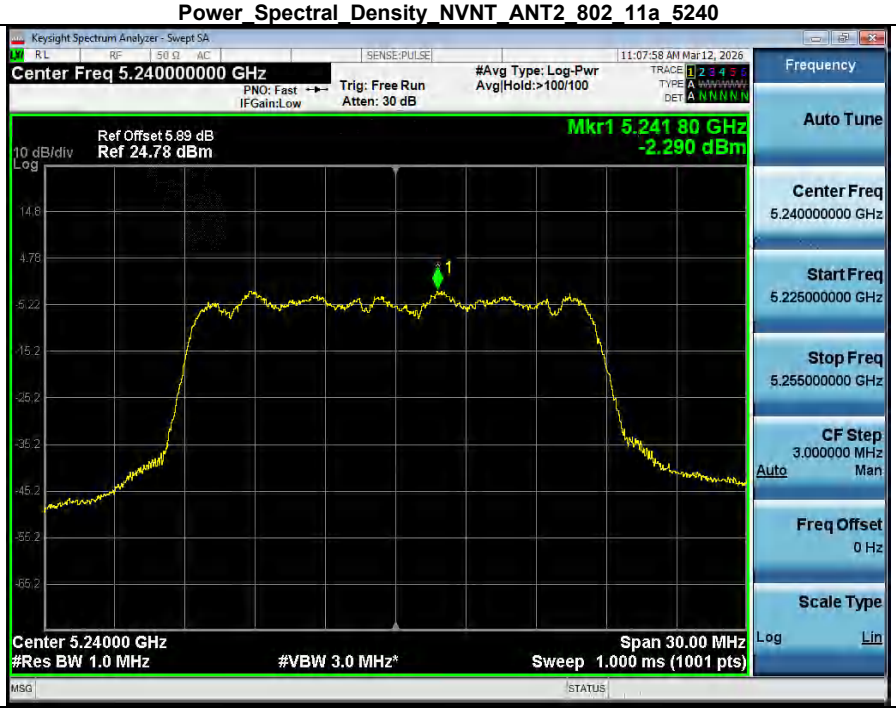

**Power_Spectral_Density_NVNT_ANT2_802_11a_5200**




**Power_Spectral_Density_NVNT_ANT1_802_11a_5240**




**Power_Spectral_Density_NVNT_ANT2_802_11a_5240**

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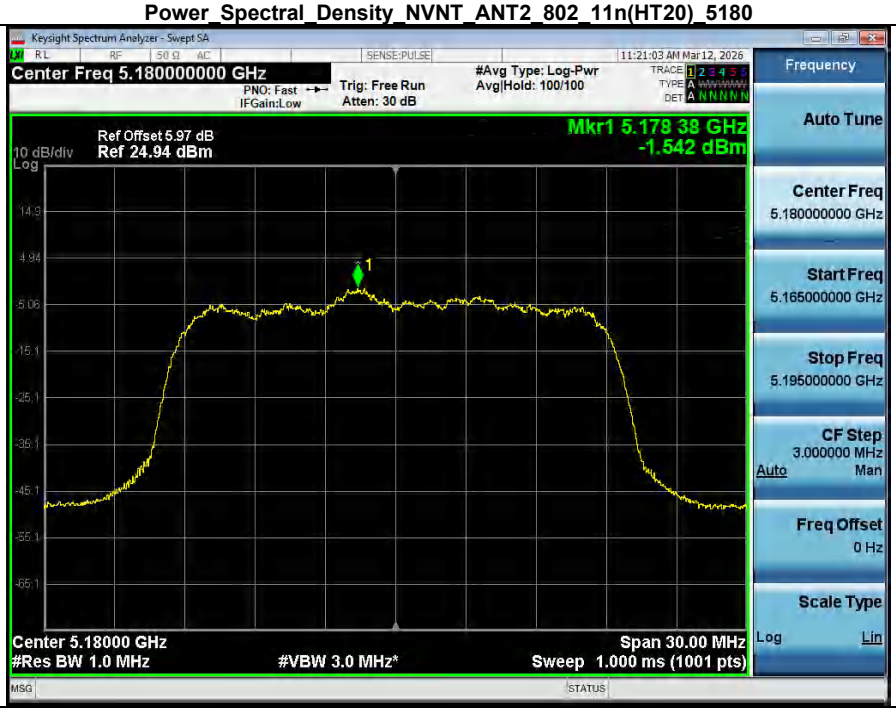


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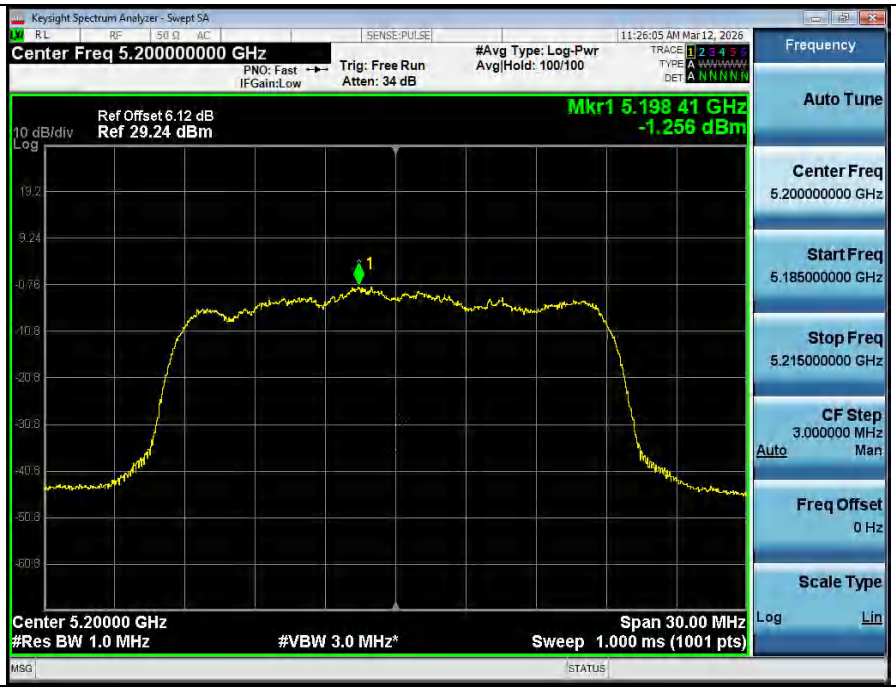


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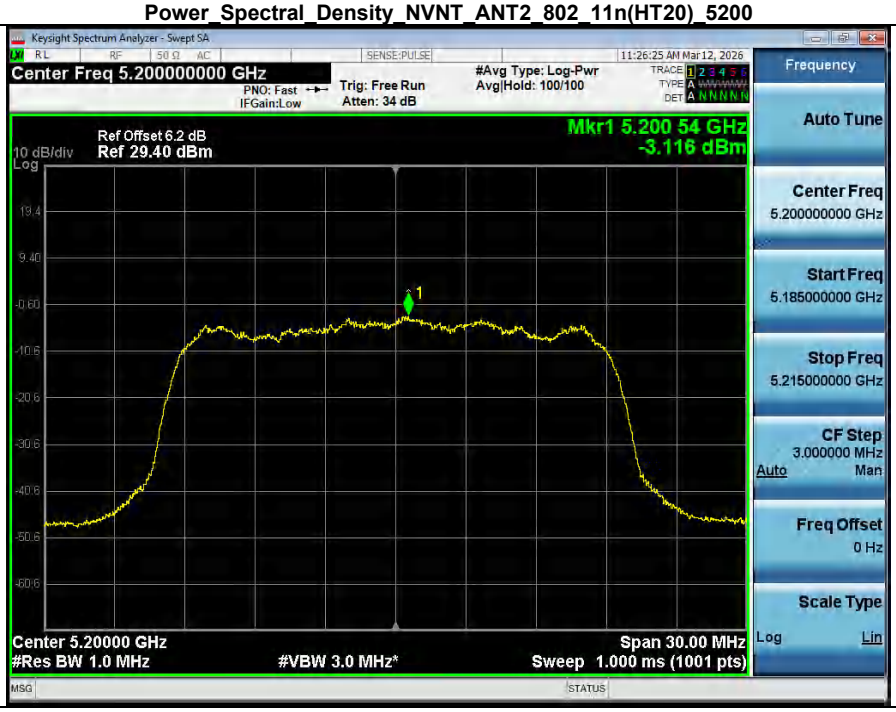
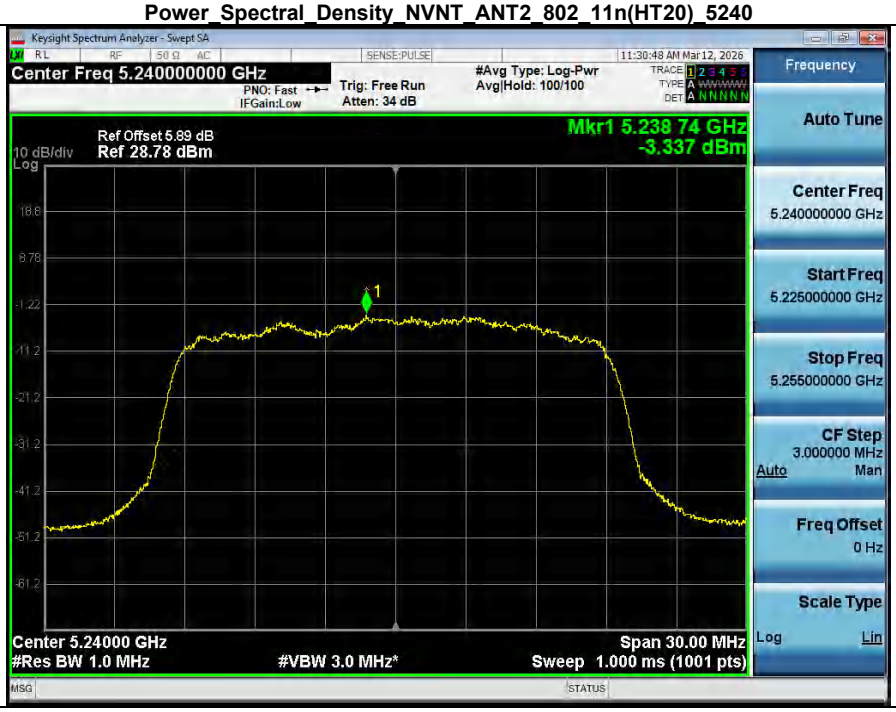



**Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240**

**Power_Spectral_Density_NVNT_ANT2_802_11n(HT20)_5240**




**Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180**

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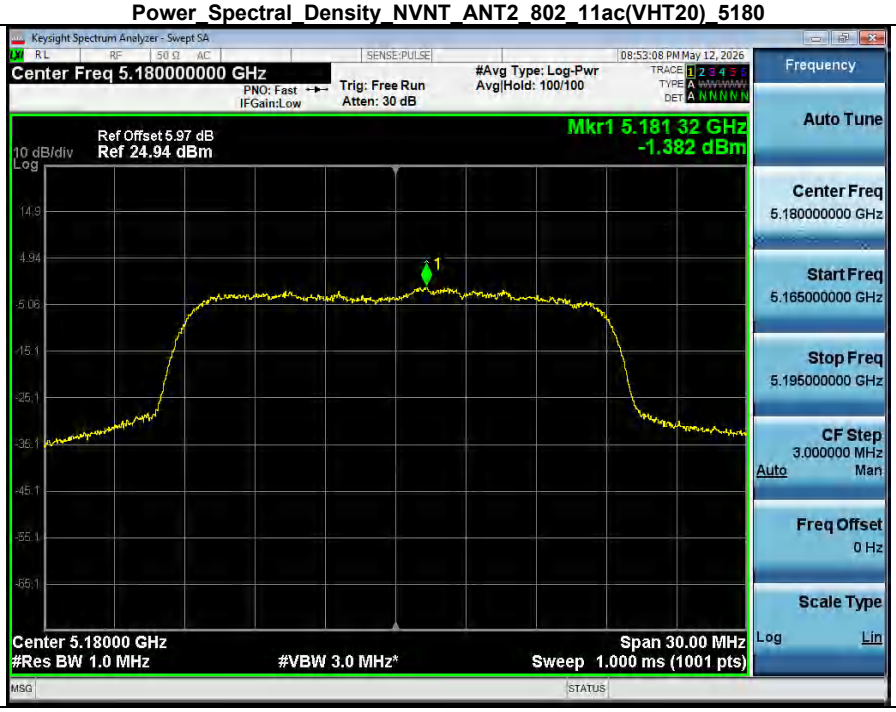


**Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200**

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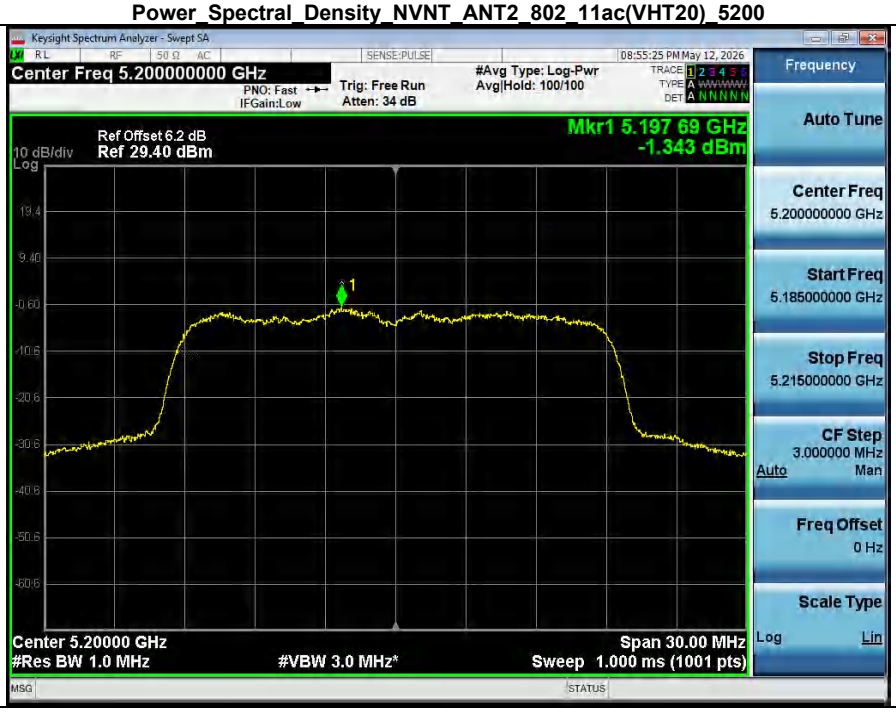


**Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240**

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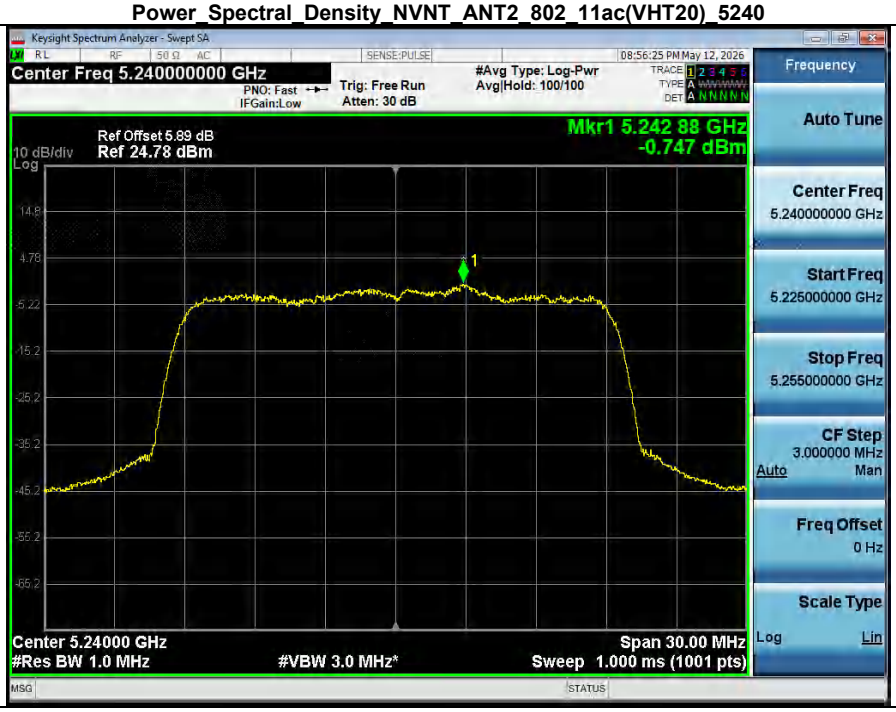


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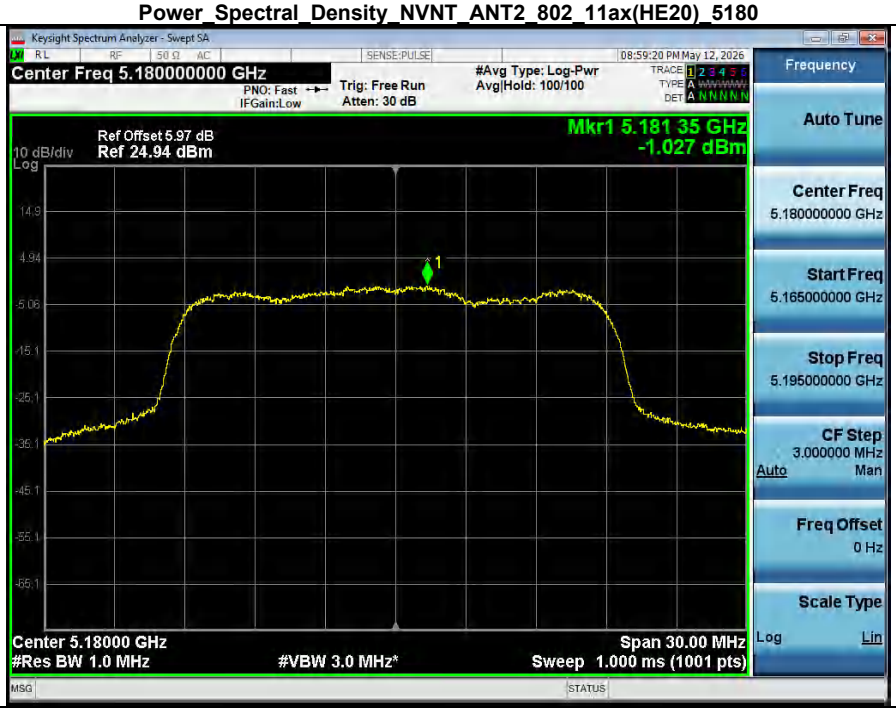


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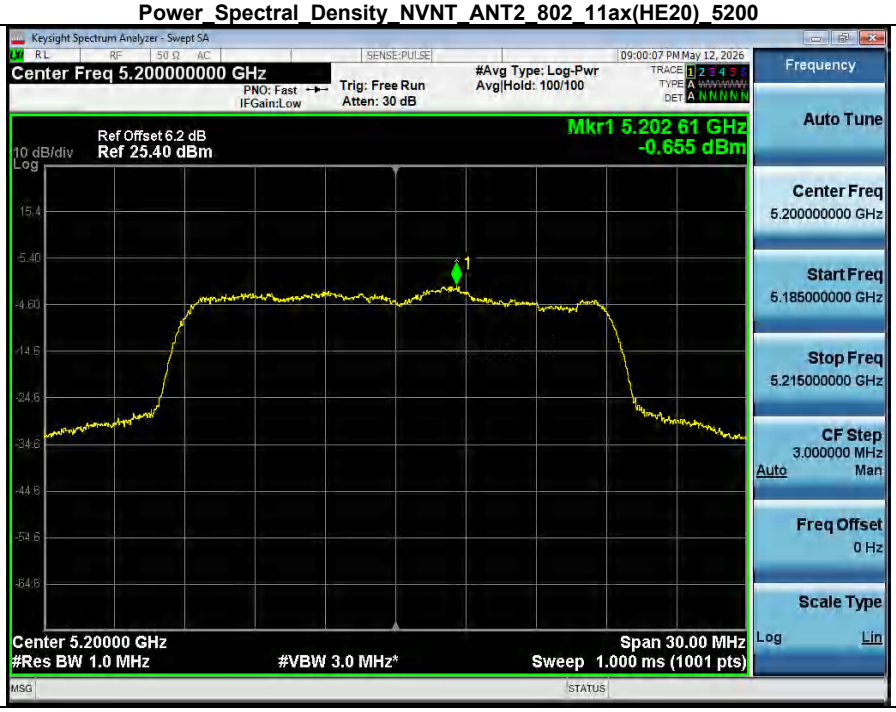
Power_Spectral_Density_NVNT_ANT2_802_11ax(HE20)_5200




Power_Spectral_Density_NVNT_ANT1_802_11ax(HE20)_5240

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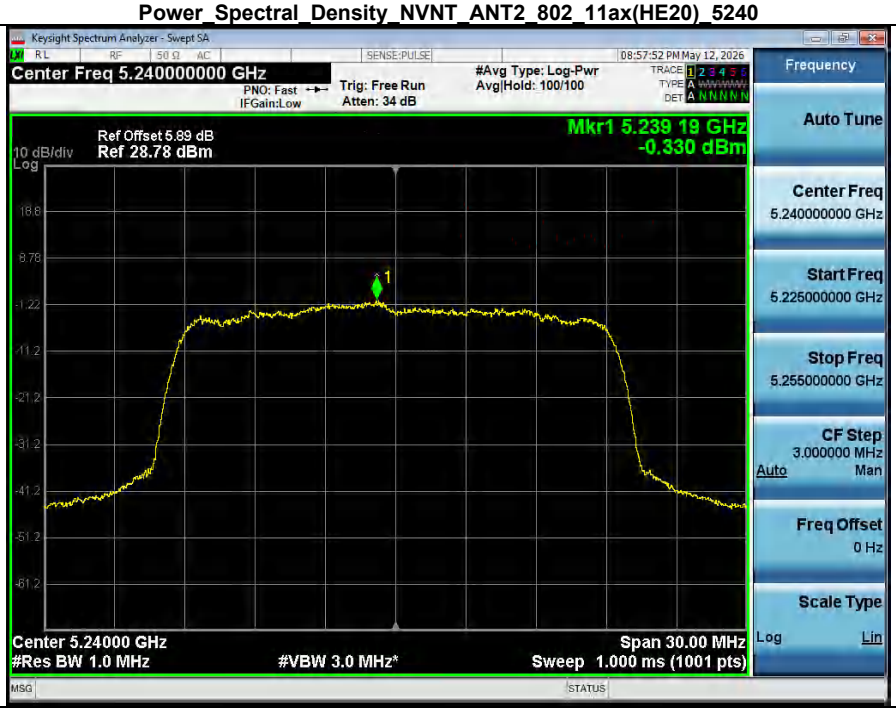


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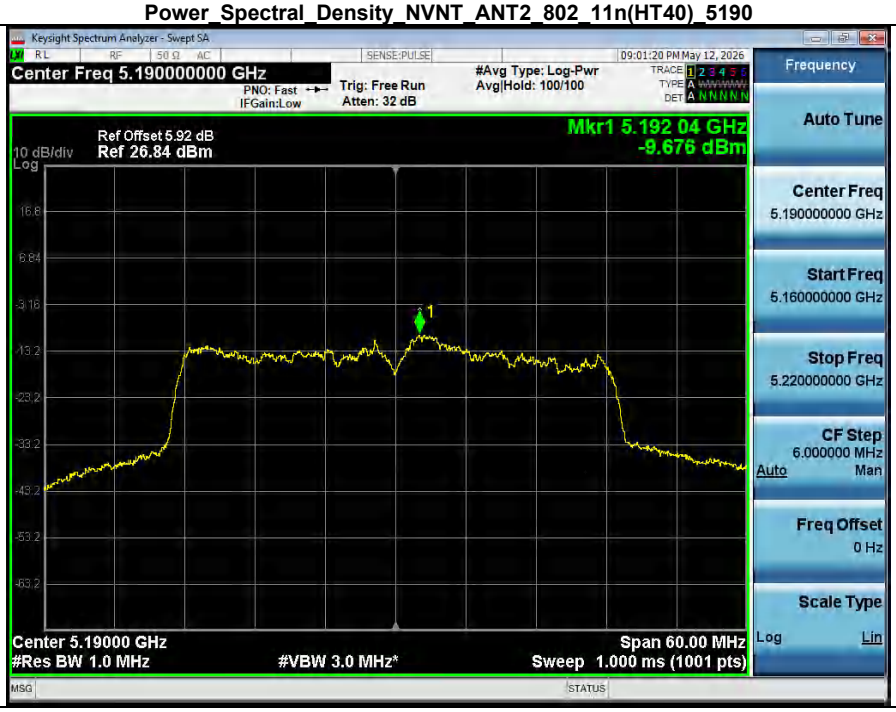


**Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230**

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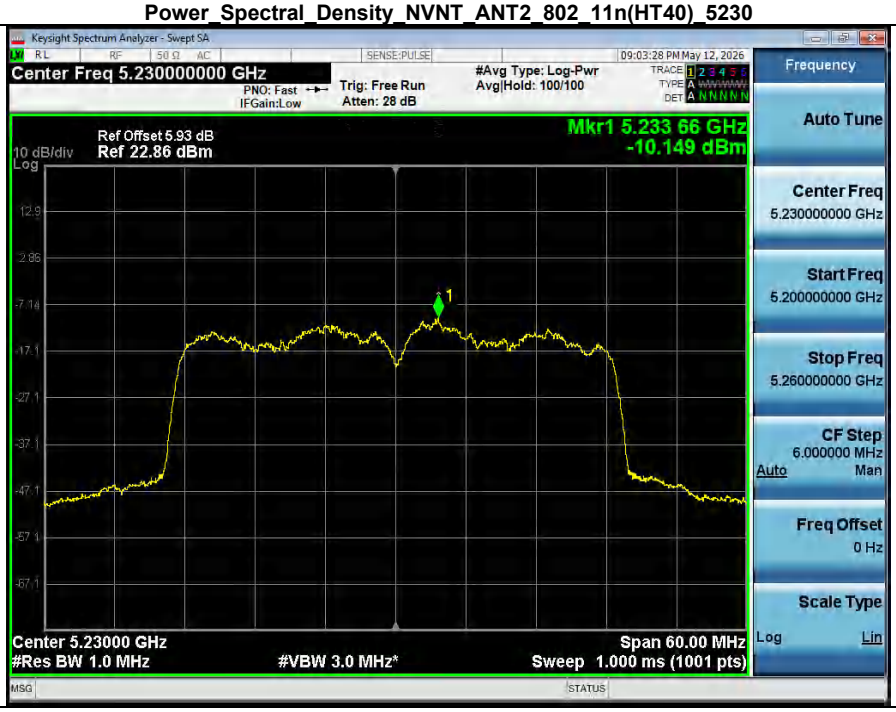


**Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190**

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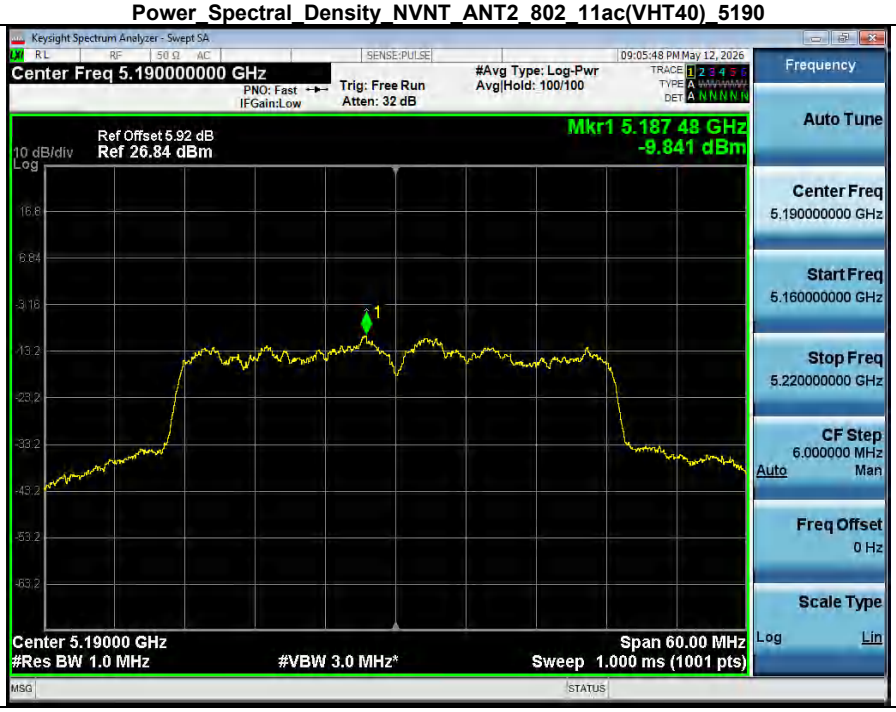
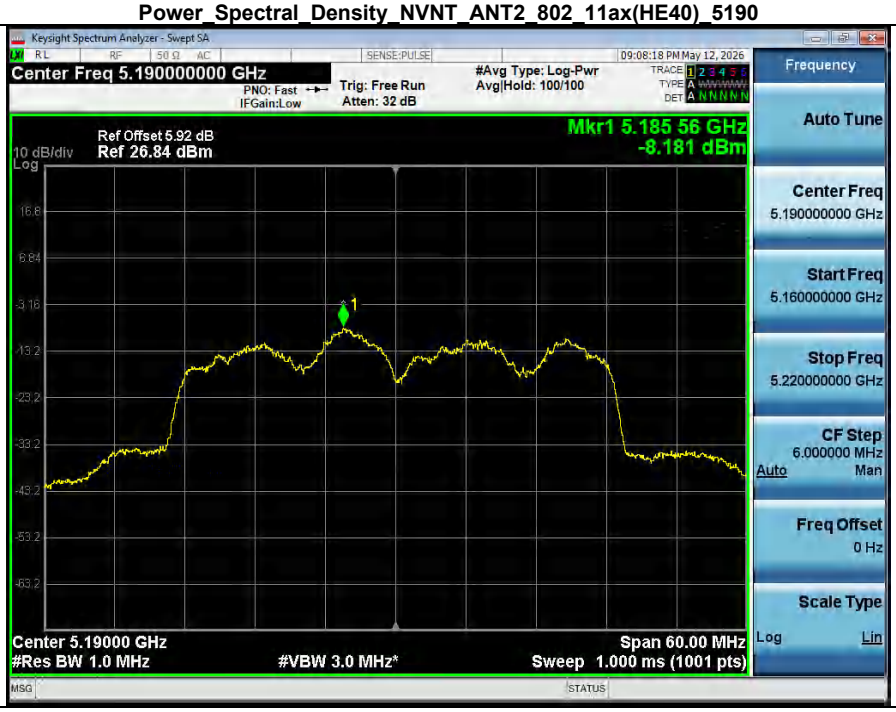



**Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230**

**Power_Spectral_Density_NVNT_ANT2_802_11ac(VHT40)_5230**

**Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5190**

Power_Spectral_Density_NVNT_ANT2_802_11ax(HE40)_5190

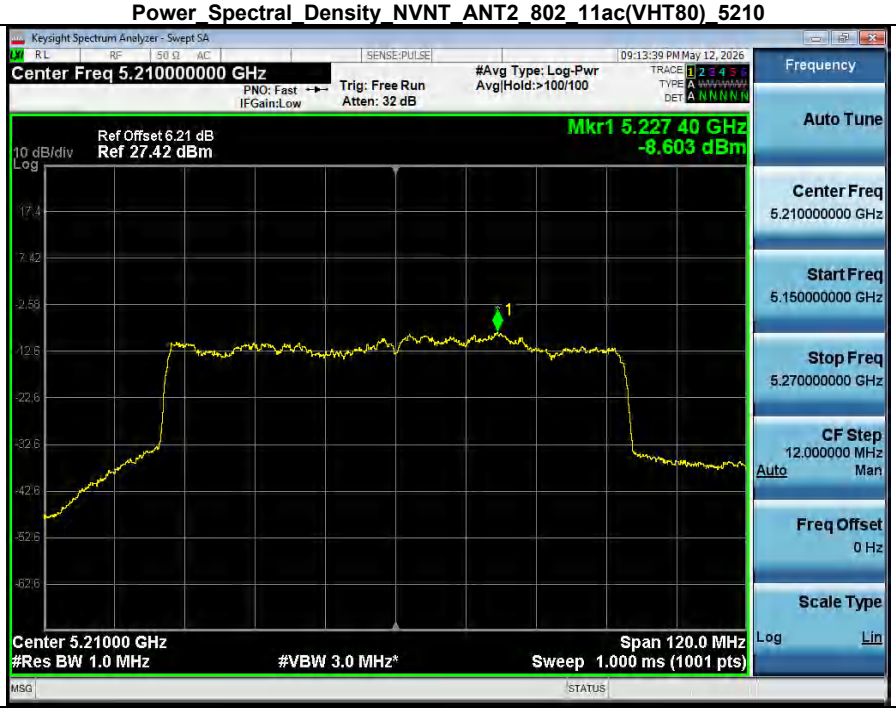



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5230

**Power_Spectral_Density_NVNT_ANT2_802_11ax(HE40)_5230**

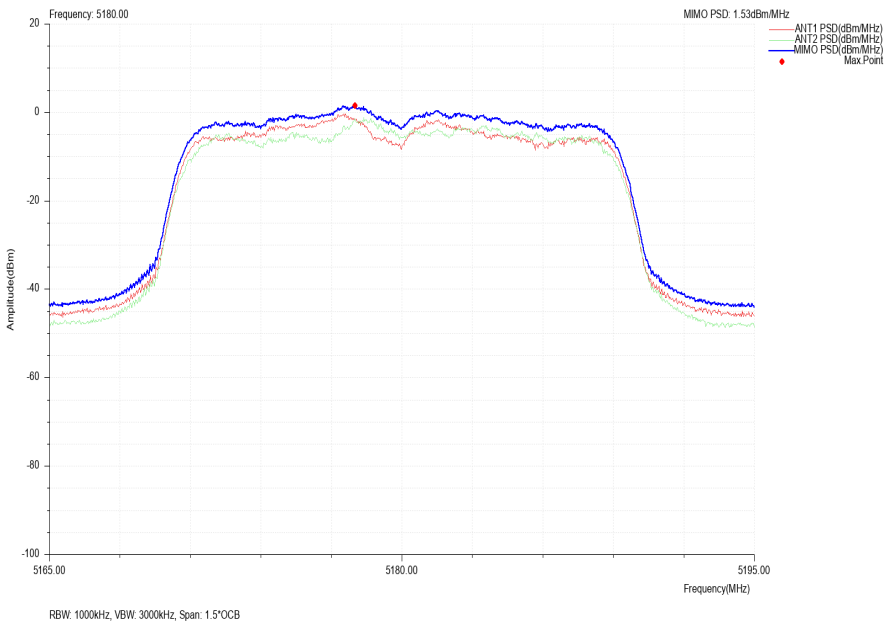
**Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210**

**Power_Spectral_Density_NVNT_ANT2_802_11ac(VHT80)_5210**

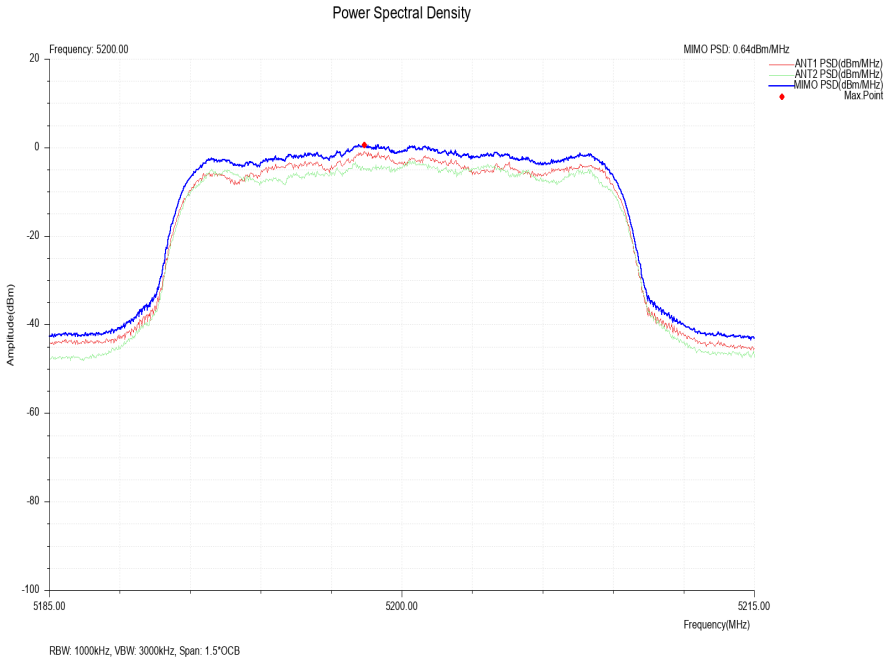



**Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5210**

**Power_Spectral_Density_NVNT_ANT2_802_11ax(HE80)_5210**




**NVNT_MIMO_TX_802_11n(HT20)_Power_Spectral_Density_5200**

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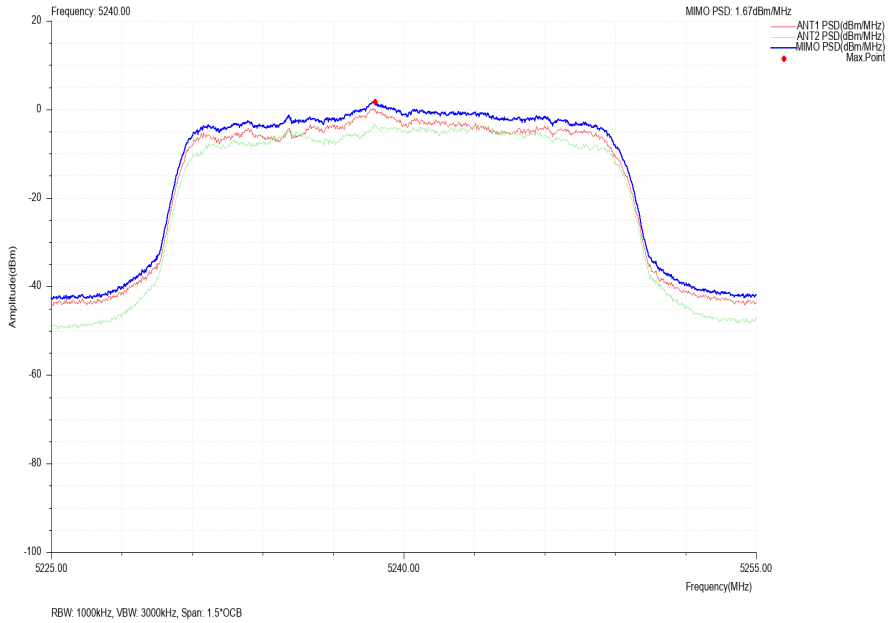


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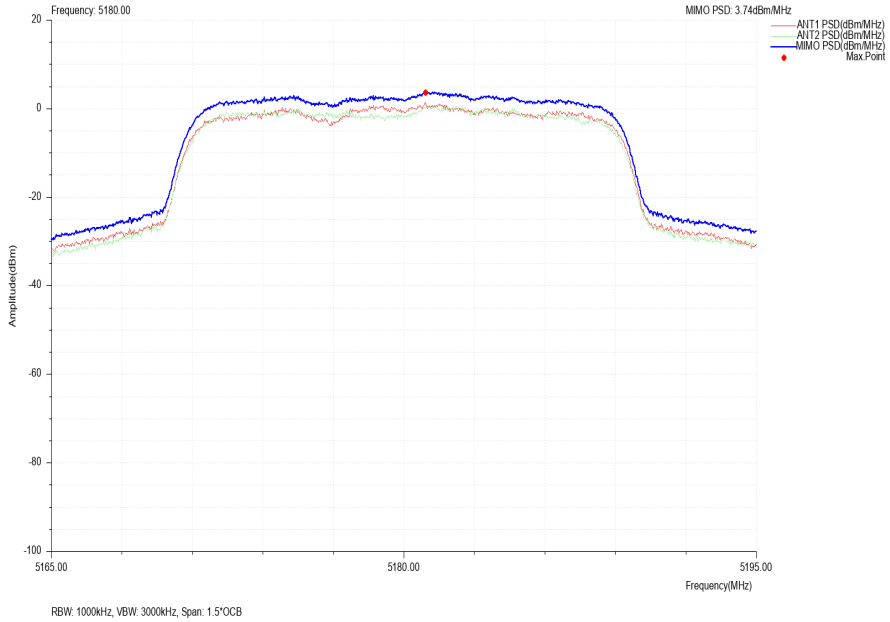
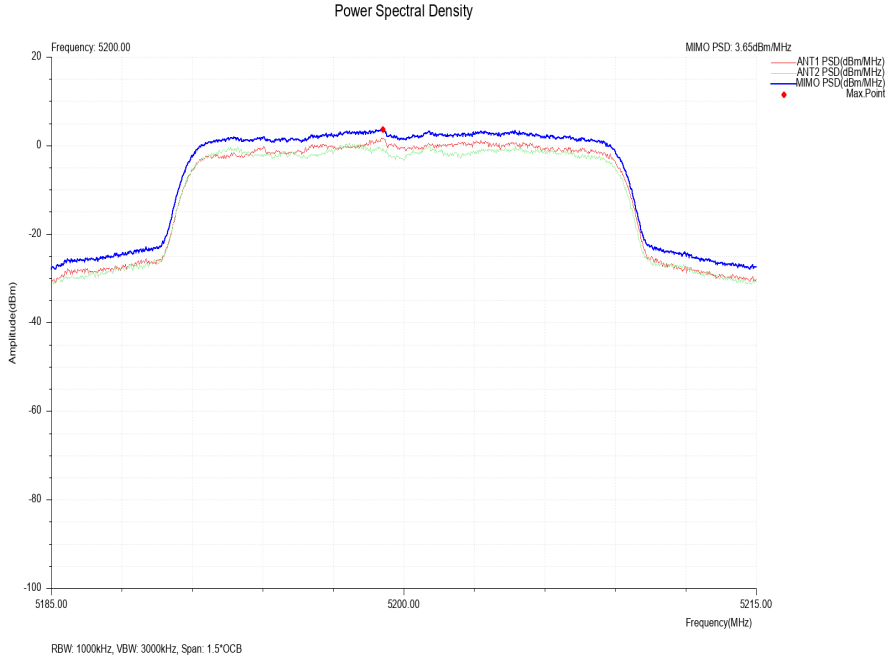
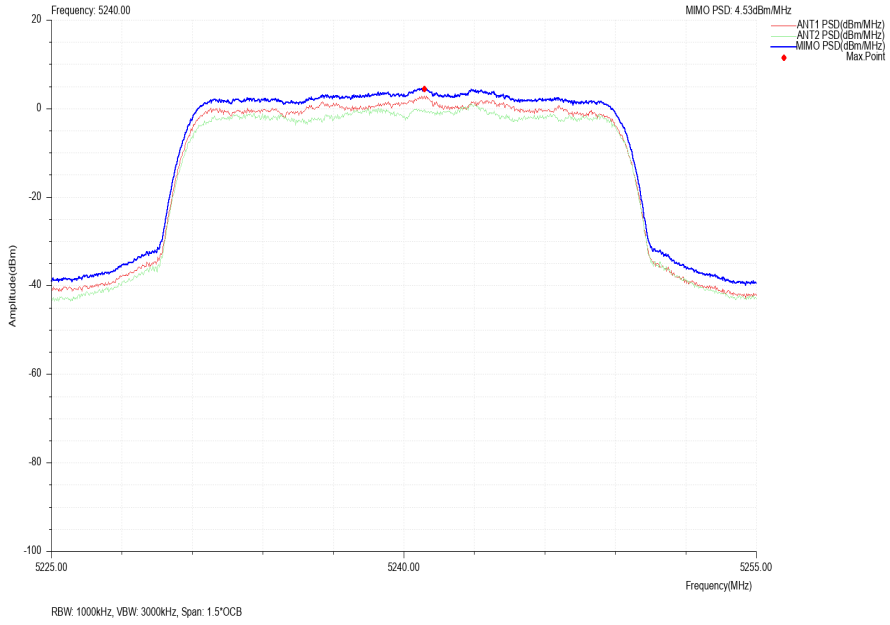


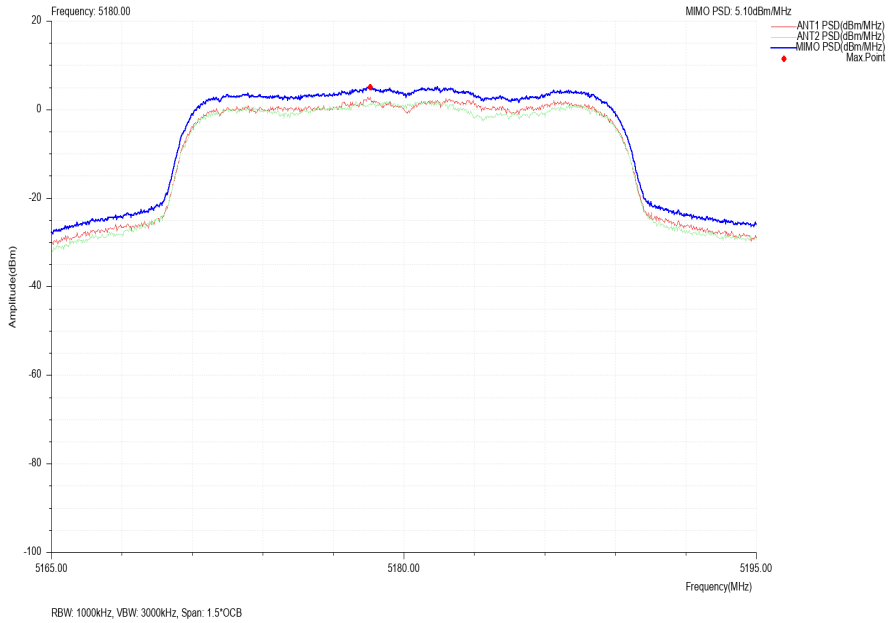

**NVNT_MIMO_TX_802_11ac(VHT20)_Power_Spectral_Density_5200**




**NVNT_MIMO_TX_802_11ac(VHT20)_Power_Spectral_Density_5240**




**NVNT_MIMO_TX_802_11ax(HE20)_Power_Spectral_Density_5180**

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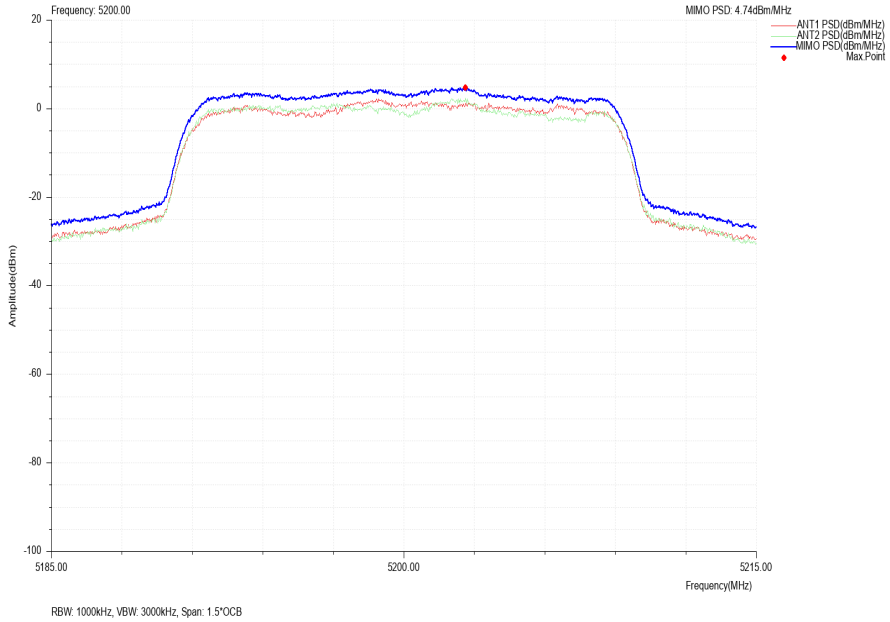


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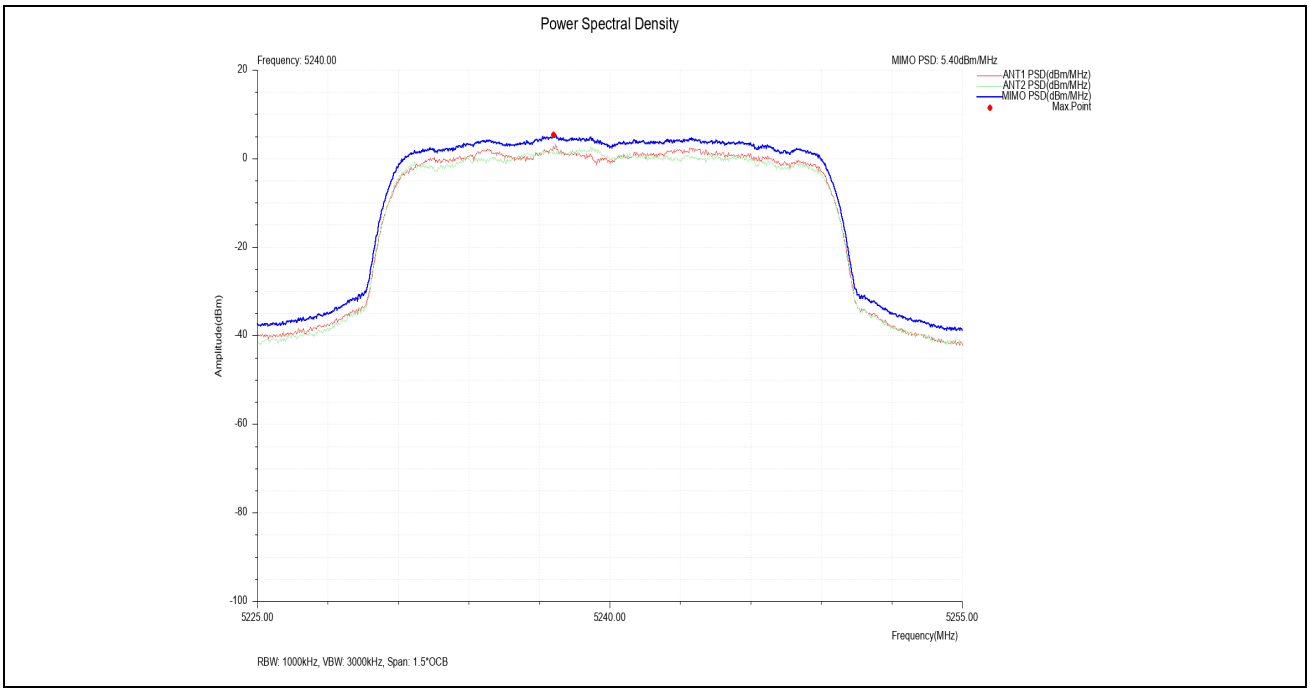


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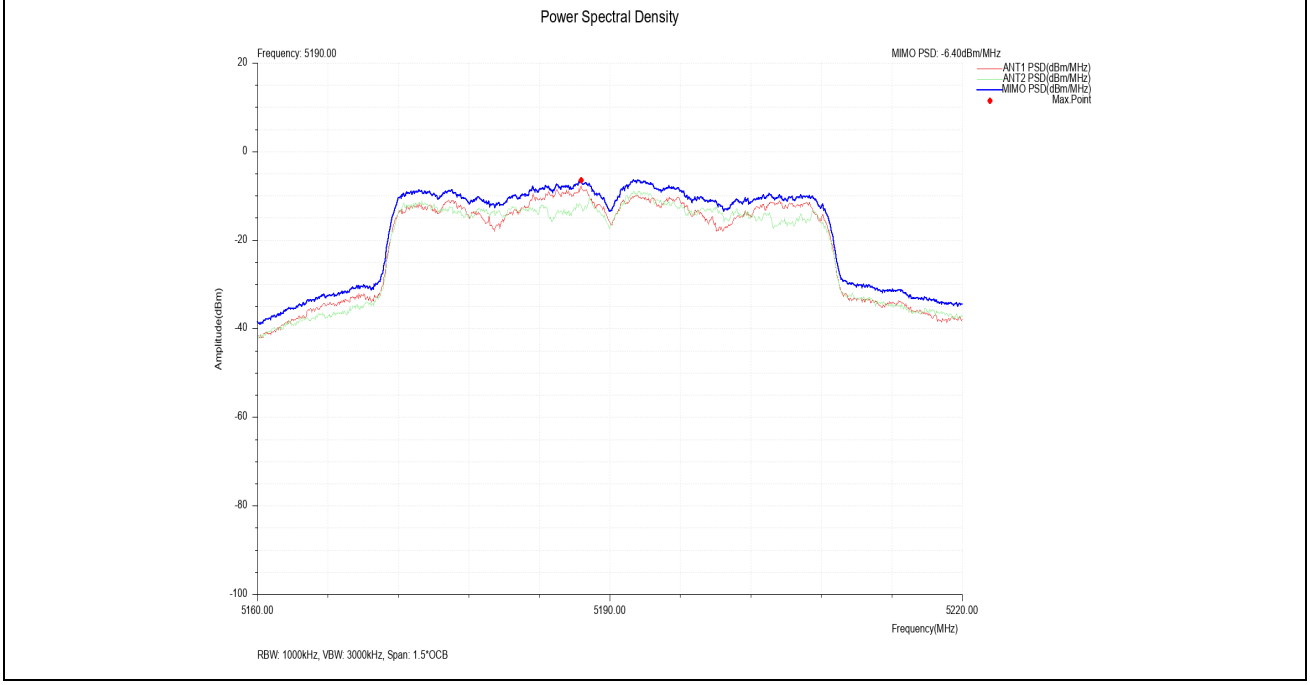


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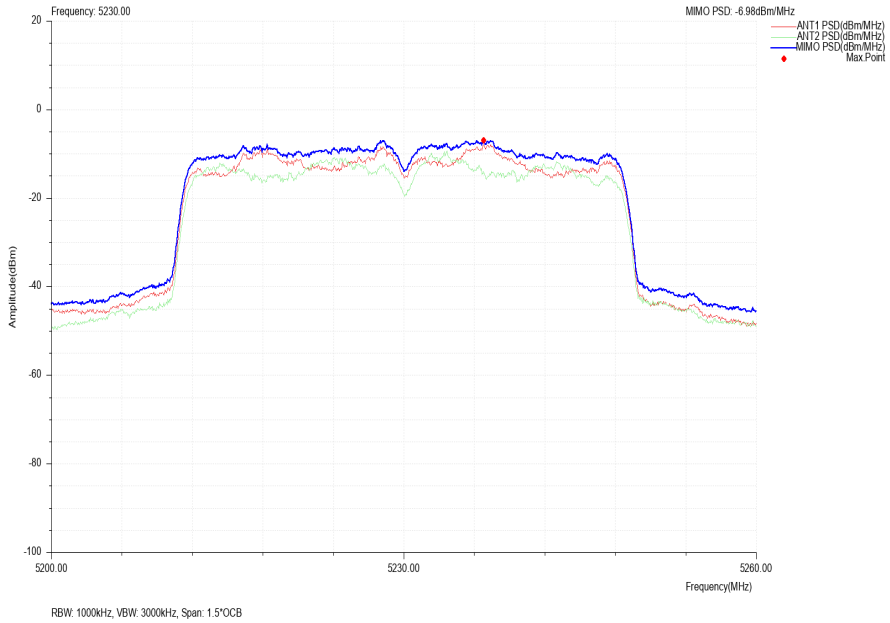
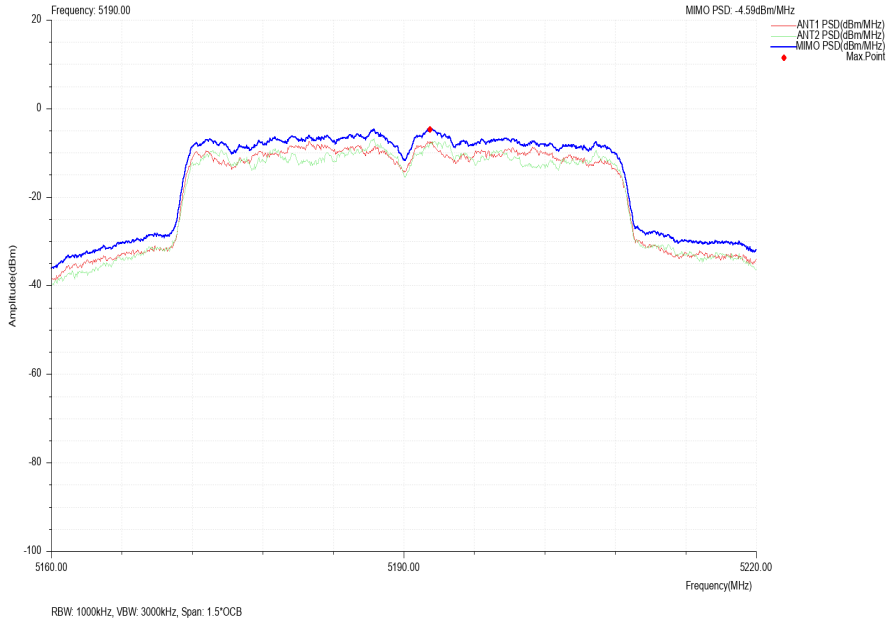
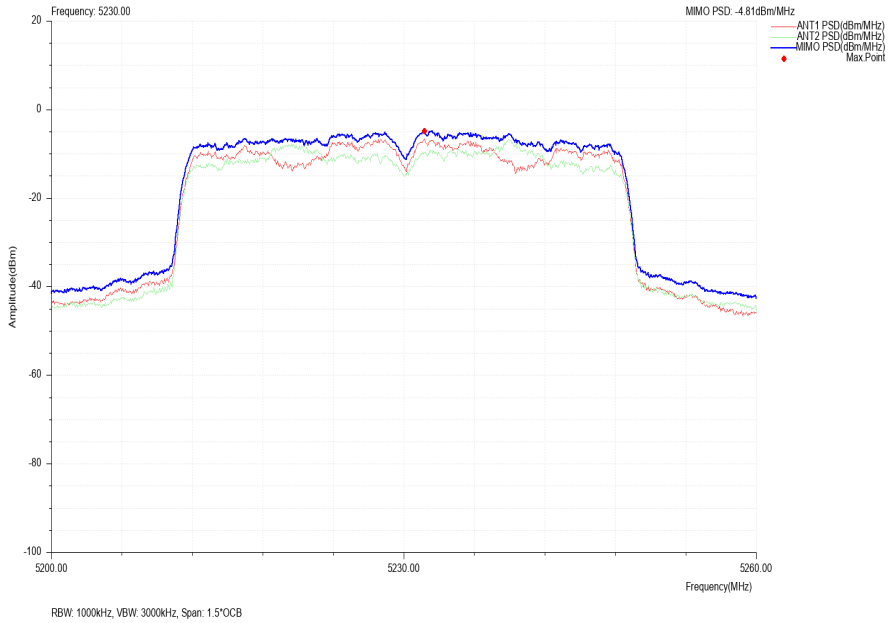


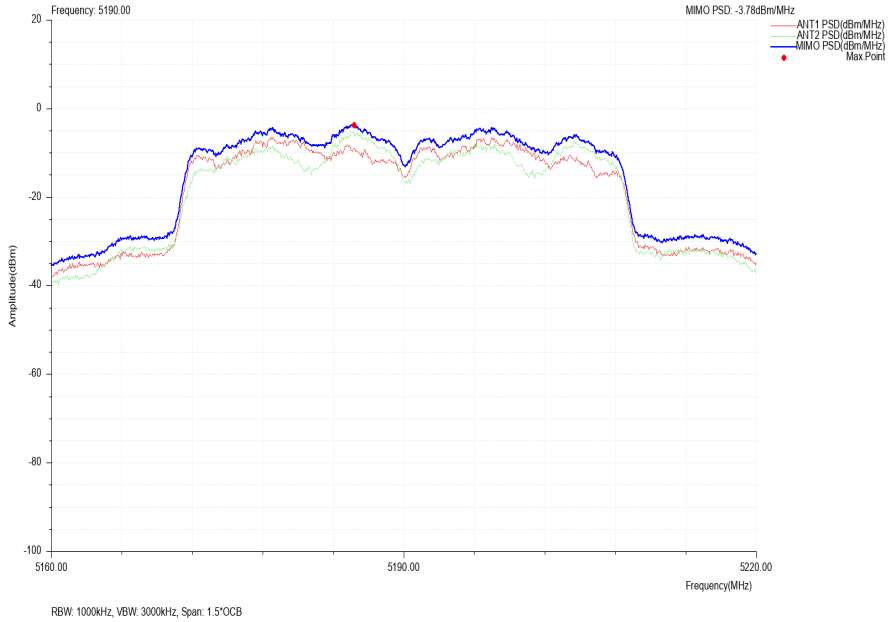

**NVNT_MIMO_TX_802_11ac(VHT40)_Power_Spectral_Density_5190**



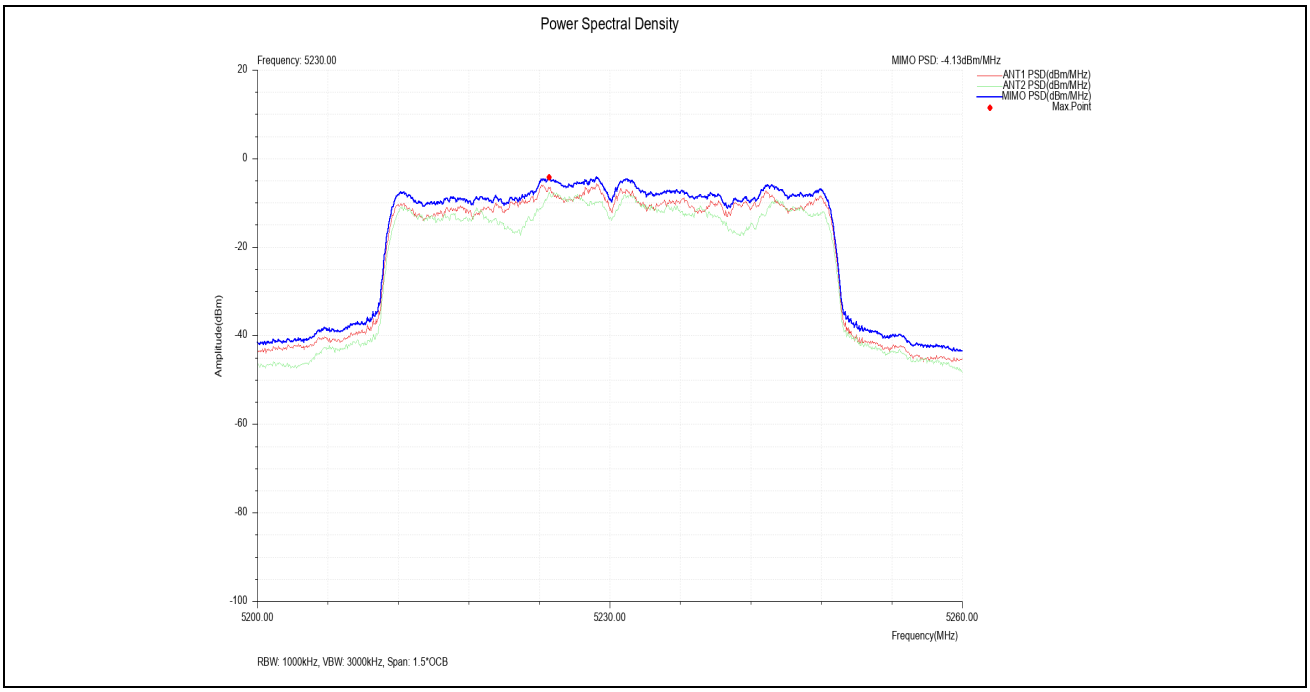

**NVNT_MIMO_TX_802_11ac(VHT40)_Power_Spectral_Density_5230**



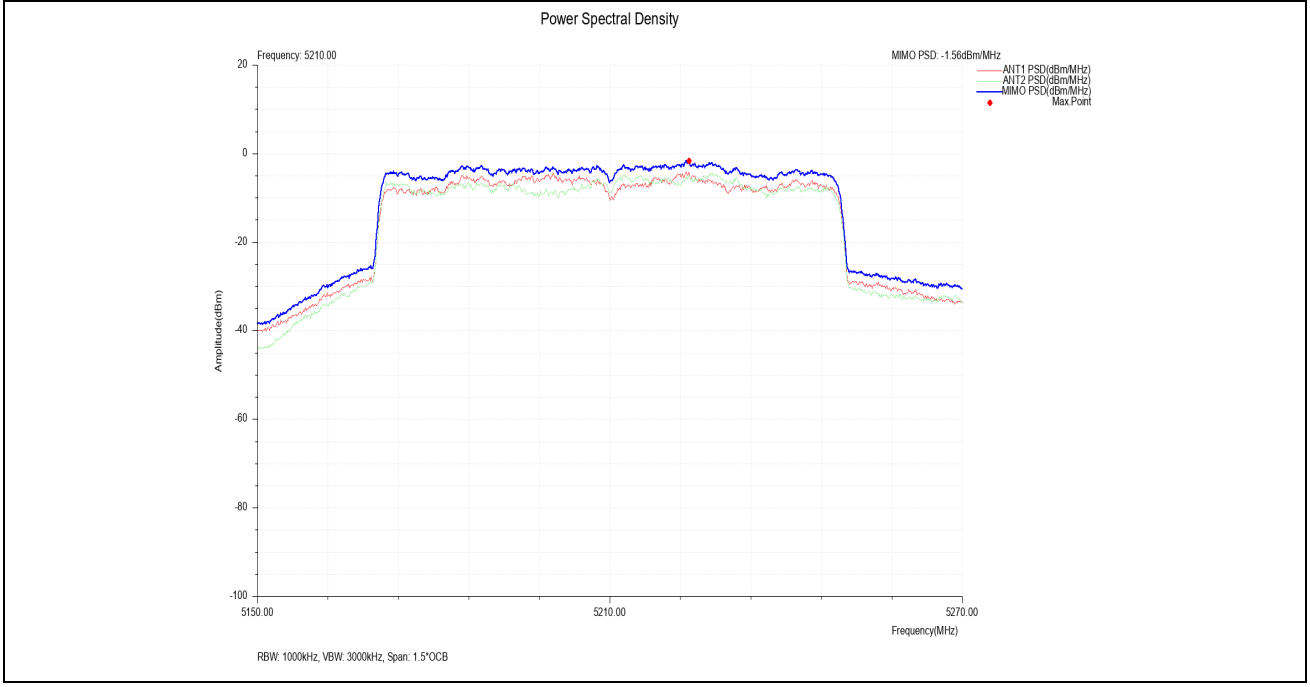

**NVNT_MIMO_TX_802_11ax(HE40)_Power_Spectral_Density_5190**



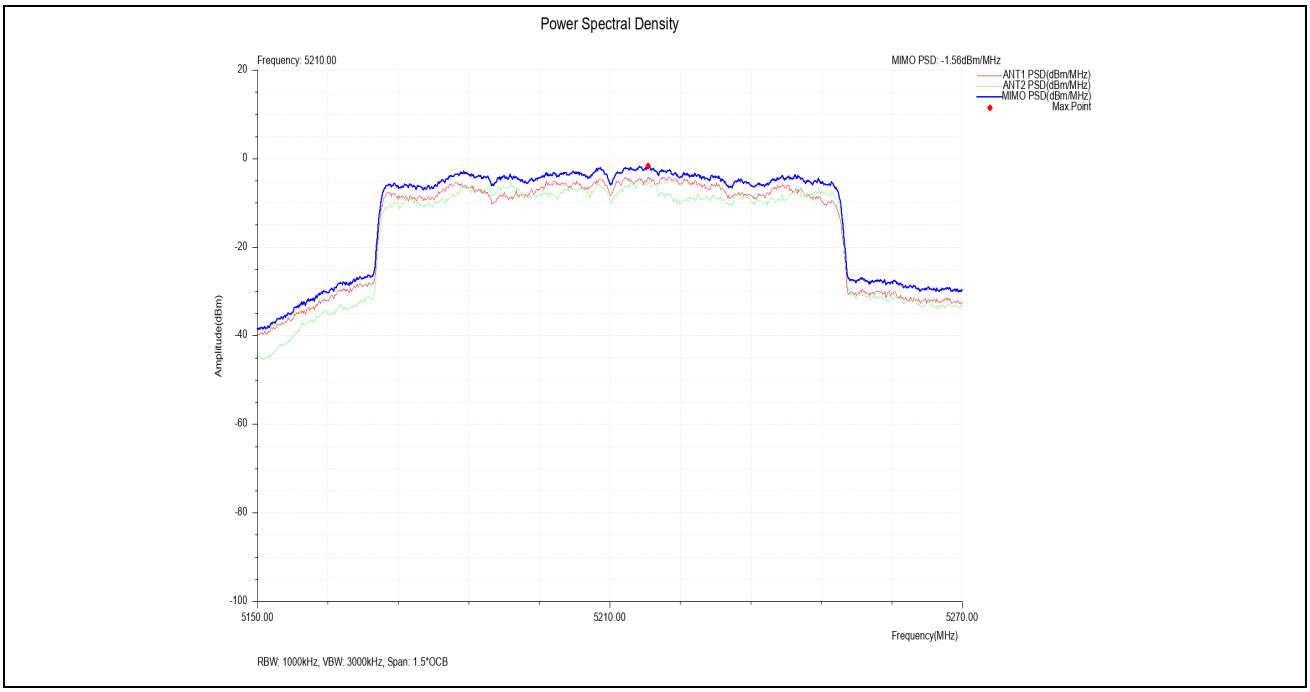

**NVNT_MIMO_TX_802_11ax(HE40)_Power_Spectral_Density_5230**




**NVNT_MIMO_TX_802_11ac(VHT80)_Power_Spectral_Density_5210**




**NVNT_MIMO_TX_802_11ax(HE80)_Power_Spectral_Density_5210**


Power Spectral Density
Frequency: 5210.00
MIMO PSD: -1.56dBm/MHz
ANT1 PSD(dBm/MHz)
ANT2 PSD(dBm/MHz)
MIMO PSD(dBm/MHz)
Max Point
20
0
-20
-40
-60
-80
-100
Amplitude(dBm)
5150.00
5210.00
5270.00
Frequency(MHz)
RBW: 1000kHz, VBW: 3000kHz, Span: 1.5*OCB

### 3.2 Test Datas Bands U-NII-3

| Condition | Antenna | Modulation | Frequency (MHz) | PSD_SA (dBm/RBW) | Duty factor(dB) | RB factor (dB) | PSD (dBm/500kHz) | Limit (dBm/500kHz) | Result |
|---|---|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 802.11a | 5745.00 | -4.19 | 0.33 | -0 | -3.95 | 30 | Pass |
| NVNT | ANT2 | 802.11a | 5745.00 | -4.39 | 0.17 | -0 | -4.31 | 30 | Pass |
| NVNT | ANT1 | 802.11a | 5785.00 | -5.44 | 0.33 | -0 | -5.20 | 30 | Pass |
| NVNT | ANT2 | 802.11a | 5785.00 | -5.63 | 0.33 | -0 | -5.39 | 30 | Pass |
| NVNT | ANT1 | 802.11a | 5825.00 | -5.06 | 0.33 | -0 | -4.82 | 30 | Pass |
| NVNT | ANT2 | 802.11a | 5825.00 | -5.55 | 0.33 | -0 | -5.31 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5745.00 | -3.66 | 0.24 | -0 | -3.50 | 30 | Pass |
| NVNT | ANT2 | 802.11n(HT20) | 5745.00 | -4.36 | 0.24 | -0 | -4.21 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5785.00 | -4.88 | 0.24 | -0 | -4.72 | 30 | Pass |
| NVNT | ANT2 | 802.11n(HT20) | 5785.00 | -4.98 | 0.24 | -0 | -4.83 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 5825.00 | -6.19 | 0.37 | -0 | -5.91 | 30 | Pass |
| NVNT | ANT2 | 802.11n(HT20) | 5825.00 | -5.08 | 0.37 | -0 | -4.79 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5745.00 | 0.29 | 2.11 | -0 | 2.31 | 30 | Pass |
| NVNT | ANT2 | 802.11ac(VHT20) | 5745.00 | -1.76 | 2.11 | -0 | 0.26 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5785.00 | 0.34 | 1.92 | -0 | 2.18 | 30 | Pass |
| NVNT | ANT2 | 802.11ac(VHT20) | 5785.00 | -1.26 | 2.11 | -0 | 0.76 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT20) | 5825.00 | -1.60 | 2.11 | -0 | 0.42 | 30 | Pass |
| NVNT | ANT2 | 802.11ac(VHT20) | 5825.00 | -1.80 | 2.11 | -0 | 0.22 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5745.00 | 0.52 | 2.63 | -0 | 3.07 | 30 | Pass |
| NVNT | ANT2 | 802.11ax(HE20) | 5745.00 | -1.74 | 2.63 | -0 | 0.81 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5785.00 | 0.76 | 3.01 | -0 | 3.68 | 30 | Pass |
| NVNT | ANT2 | 802.11ax(HE20) | 5785.00 | -1.62 | 3.01 | -0 | 1.30 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE20) | 5825.00 | -1.32 | 3.01 | -0 | 1.60 | 30 | Pass |
| NVNT | ANT2 | 802.11ax(HE20) | 5825.00 | -1.64 | 2.63 | -0 | 0.90 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5755.00 | -8.09 | 0.79 | -0 | -7.39 | 30 | Pass |
| NVNT | ANT2 | 802.11n(HT40) | 5755.00 | -9.11 | 0.82 | -0 | -8.38 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT40) | 5795.00 | -7.42 | 0.82 | -0 | -6.68 | 30 | Pass |
| NVNT | ANT2 | 802.11n(HT40) | 5795.00 | -8.86 | 0.79 | -0 | -8.16 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5755.00 | -7.23 | 3.01 | -0 | -4.31 | 30 | Pass |
| NVNT | ANT2 | 802.11ac(VHT40) | 5755.00 | -8.08 | 3.01 | -0 | -5.16 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT40) | 5795.00 | -7.50 | 2.63 | -0 | -4.95 | 30 | Pass |
| NVNT | ANT2 | 802.11ac(VHT40) | 5795.00 | -8.90 | 2.63 | -0 | -6.36 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5755.00 | -7.26 | 3.01 | -0 | -4.34 | 30 | Pass |
| NVNT | ANT2 | 802.11ax(HE40) | 5755.00 | -8.70 | 3.01 | -0 | -5.78 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE40) | 5795.00 | -7.40 | 3.01 | -0 | -4.48 | 30 | Pass |
| NVNT | ANT2 | 802.11ax(HE40) | 5795.00 | -9.09 | 3.01 | -0 | -6.17 | 30 | Pass |
| NVNT | ANT1 | 802.11ac(VHT80) | 5775.00 | -9.23 | 4.26 | -0 | -5.06 | 30 | Pass |
| NVNT | ANT2 | 802.11ac(VHT80) | 5775.00 | -10.01 | 4.26 | -0 | -5.83 | 30 | Pass |
| NVNT | ANT1 | 802.11ax(HE80) | 5775.00 | -8.09 | 3.52 | -0 | -4.65 | 30 | Pass |
| NVNT | ANT2 | 802.11ax(HE80) | 5775.00 | -9.38 | 3.52 | -0 | -5.95 | 30 | Pass |

| Condition | Antenna | Mode | Frequency (MHz) | MIMO PSD(dBm/500kHz) | Limit(dBm/500kHz) | Result |
|---|---|---|---|---|---|---|
| NVNT | MIMO_TX | 802.11n(HT20) | 5745.00 | -1.38 | 30 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5785.00 | -2.17 | 30 | Pass |
| NVNT | MIMO_TX | 802.11n(HT20) | 5825.00 | -2.97 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5745.00 | 4.17 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5785.00 | 4.04 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT20) | 5825.00 | 2.85 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5745.00 | 4.60 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5785.00 | 5.62 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE20) | 5825.00 | 3.39 | 30 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5755.00 | -5.79 | 30 | Pass |
| NVNT | MIMO_TX | 802.11n(HT40) | 5795.00 | -5.10 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5755.00 | -2.36 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT40) | 5795.00 | -3.02 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5755.00 | -2.45 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE40) | 5795.00 | -3.33 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ac(VHT80) | 5775.00 | -3.63 | 30 | Pass |
| NVNT | MIMO_TX | 802.11ax(HE80) | 5775.00 | -2.51 | 30 | Pass |