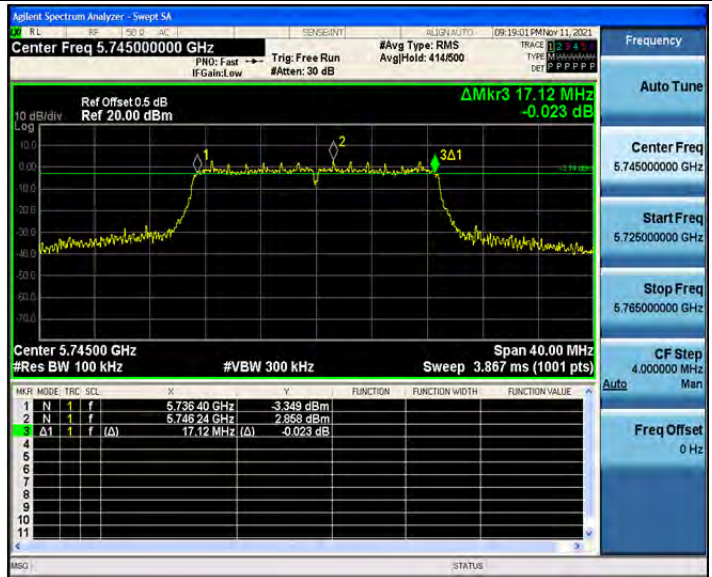


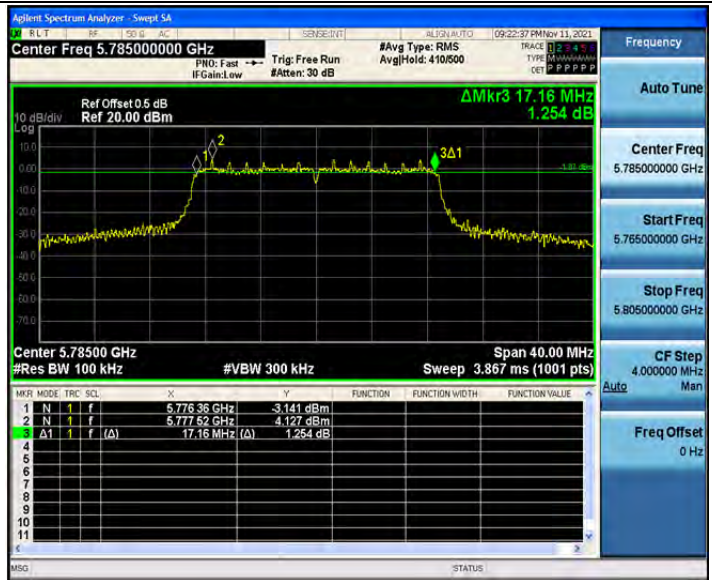
802.11ac(VHT20)_Ant1_5745



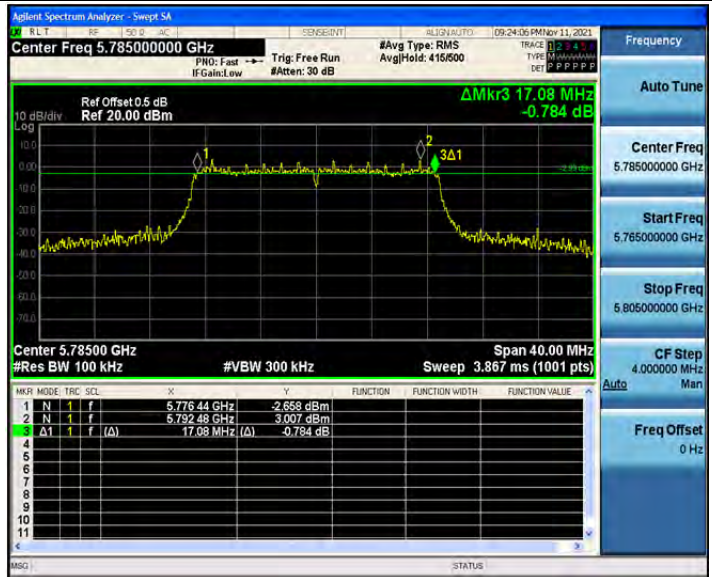
802.11ac(VHT20)_Ant2_5745



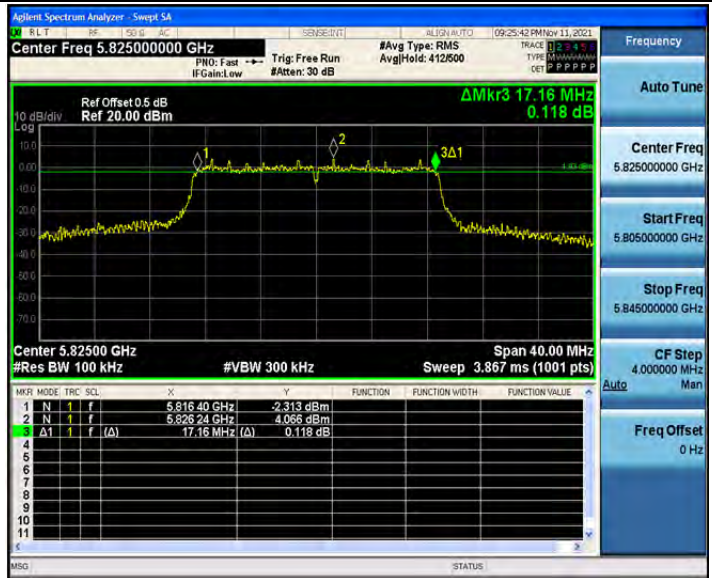
802.11ac(VHT20)_Ant1_5785



802.11ac(VHT20)_Ant2_5785



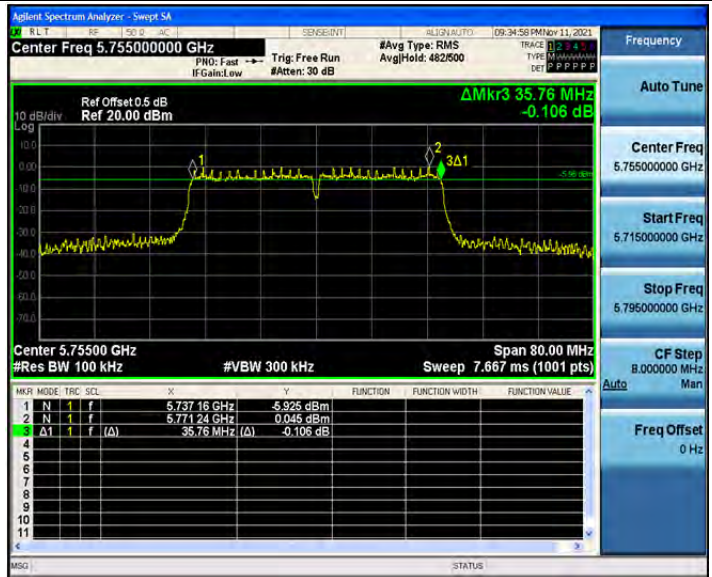
802.11ac(VHT20)_Ant1_5825



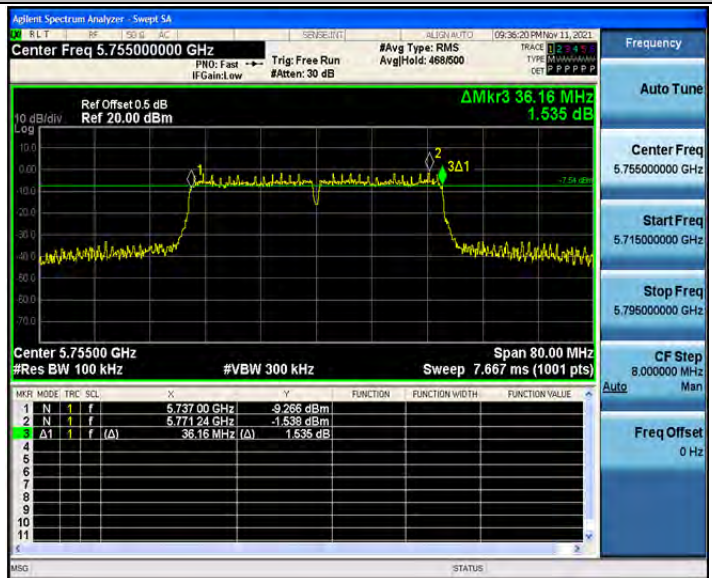
802.11ac(VHT20)_Ant2_5825



802.11ac(VHT40)_Ant1_5755



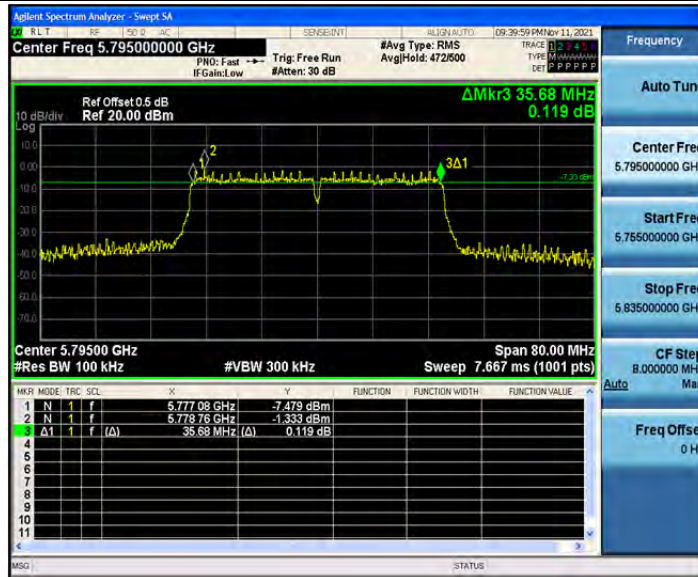
802.11ac(VHT40)_Ant2_5755



802.11ac(VHT40)_Ant1_5795



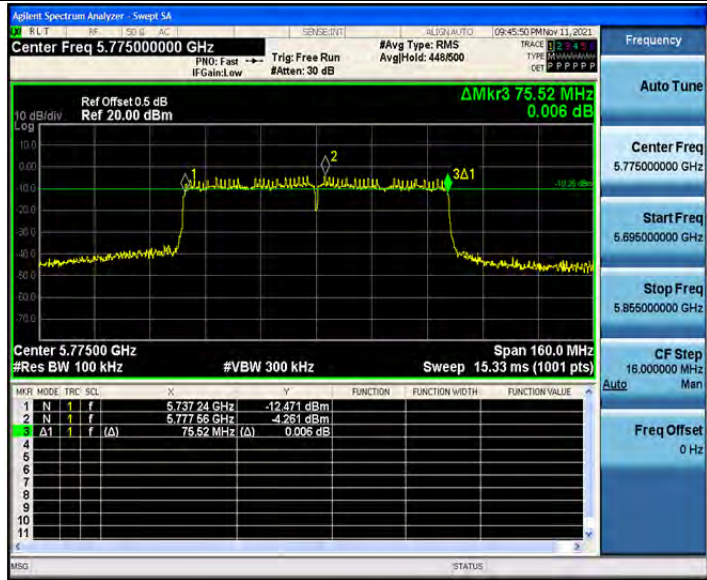
802.11ac(VHT40)_Ant2_5795



802.11ac(VHT80)_Ant1_5775



802.11ac(VHT80)_Ant2_5775



Appendix B: Maximum conducted output power

Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|---------------|---------|---------|-------------|------------|---------|
| 802.11a | Ant1 | 5180 | 16.36 | <=24 | PASS |
| | Ant2 | 5180 | 16.16 | <=24 | PASS |
| | Ant1 | 5200 | 15.27 | <=24 | PASS |
| | Ant2 | 5200 | 16.19 | <=24 | PASS |
| | Ant1 | 5240 | 15.20 | <=24 | PASS |
| | Ant2 | 5240 | 16.35 | <=24 | PASS |
| | Ant1 | 5745 | 15.76 | <=30 | PASS |
| | Ant2 | 5745 | 15.00 | <=30 | PASS |
| | Ant1 | 5785 | 15.93 | <=30 | PASS |
| | Ant2 | 5785 | 14.71 | <=30 | PASS |
| | Ant1 | 5825 | 15.57 | <=30 | PASS |
| | Ant2 | 5825 | 13.99 | <=30 | PASS |
| 802.11n(HT20) | Ant1 | 5180 | 15.56 | <=24 | PASS |
| | Ant2 | 5180 | 16.15 | <=24 | PASS |
| | Total | 5180 | 18.88 | <=22.87 | PASS |
| | Ant1 | 5200 | 15.30 | <=24 | PASS |
| | Ant2 | 5200 | 16.14 | <=24 | PASS |
| | Total | 5200 | 18.75 | <=22.87 | PASS |
| | Ant1 | 5240 | 15.25 | <=24 | PASS |
| | Ant2 | 5240 | 16.30 | <=24 | PASS |
| | Total | 5240 | 18.82 | <=22.87 | PASS |
| | Ant1 | 5745 | 15.68 | <=30 | PASS |
| | Ant2 | 5745 | 14.93 | <=30 | PASS |
| | Total | 5745 | 18.33 | <=28.74 | PASS |
| | Ant1 | 5785 | 15.84 | <=30 | PASS |
| | Ant2 | 5785 | 14.61 | <=30 | PASS |
| | Total | 5785 | 18.28 | <=28.74 | PASS |
| | Ant1 | 5825 | 15.49 | <=30 | PASS |
| | Ant2 | 5825 | 13.89 | <=30 | PASS |
| | Total | 5825 | 17.77 | <=28.74 | PASS |
| 802.11n(HT40) | Ant1 | 5190 | 11.69 | <=24 | PASS |
| | Ant2 | 5190 | 12.55 | <=24 | PASS |
| | Total | 5190 | 15.15 | <=22.87 | PASS |
| | Ant1 | 5230 | 11.46 | <=24 | PASS |
| | Ant2 | 5230 | 12.69 | <=24 | PASS |
| | Total | 5230 | 15.13 | <=22.87 | PASS |
| | Ant1 | 5755 | 15.75 | <=30 | PASS |
| | Ant2 | 5755 | 14.88 | <=30 | PASS |
| | Total | 5755 | 18.35 | <=28.74 | PASS |
| | Ant1 | 5795 | 15.69 | <=30 | PASS |
| | Ant2 | 5795 | 14.32 | <=30 | PASS |
| | Total | 5795 | 18.07 | <=28.74 | PASS |

| | | | | | |
|-----------------|-------|------|-------|---------|------|
| 802.11ac(VHT20) | Ant1 | 5180 | 15.64 | <=24 | PASS |
| | Ant2 | 5180 | 16.19 | <=24 | PASS |
| | Total | 5180 | 18.93 | <=22.87 | PASS |
| | Ant1 | 5200 | 15.32 | <=24 | PASS |
| | Ant2 | 5200 | 16.20 | <=24 | PASS |
| | Total | 5200 | 18.79 | <=22.87 | PASS |
| | Ant1 | 5240 | 15.28 | <=24 | PASS |
| | Ant2 | 5240 | 16.34 | <=24 | PASS |
| | Total | 5240 | 18.85 | <=22.87 | PASS |
| | Ant1 | 5745 | 15.69 | <=30 | PASS |
| | Ant2 | 5745 | 14.93 | <=30 | PASS |
| | Total | 5745 | 18.34 | <=28.74 | PASS |
| | Ant1 | 5785 | 15.85 | <=30 | PASS |
| | Ant2 | 5785 | 14.68 | <=30 | PASS |
| | Total | 5785 | 18.32 | <=28.74 | PASS |
| | Ant1 | 5825 | 12.10 | <=30 | PASS |
| | Ant2 | 5825 | 10.29 | <=30 | PASS |
| | Total | 5825 | 14.30 | <=28.74 | PASS |
| 802.11ac(VHT40) | Ant1 | 5190 | 11.35 | <=24 | PASS |
| | Ant2 | 5190 | 11.90 | <=24 | PASS |
| | Total | 5190 | 14.64 | <=22.87 | PASS |
| | Ant1 | 5230 | 10.70 | <=24 | PASS |
| | Ant2 | 5230 | 12.04 | <=24 | PASS |
| | Total | 5230 | 14.43 | <=22.87 | PASS |
| | Ant1 | 5755 | 15.69 | <=30 | PASS |
| | Ant2 | 5755 | 14.88 | <=30 | PASS |
| | Total | 5755 | 18.31 | <=28.74 | PASS |
| | Ant1 | 5795 | 15.71 | <=30 | PASS |
| | Ant2 | 5795 | 14.40 | <=30 | PASS |
| | Total | 5795 | 18.12 | <=28.74 | PASS |
| 802.11ac(VHT80) | Ant1 | 5210 | 10.86 | <=24 | PASS |
| | Ant2 | 5210 | 11.49 | <=24 | PASS |
| | Total | 5210 | 14.20 | <=22.87 | PASS |
| | Ant1 | 5775 | 15.41 | <=30 | PASS |
| | Ant2 | 5775 | 14.35 | <=30 | PASS |
| | Total | 5775 | 17.92 | <=28.74 | PASS |

Note: 1. Test results increased RF cable loss by 0.5dB.

2. The U-NII-1 Directional Gain=7.13dBi > 6dBi. So Pout = Plimit - (GTX-6) = 24 - 1.13 = 22.87dBm

The U-NII-3 Directional Gain=7.26dBi > 6dBi. So Pout = Plimit - (GTX-6) = 30 - 1.26 = 28.74dBm

Appendix C: Maximum power spectral density

Test Result

| Test Mode | Antenna | Channel | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|---------------|---------|---------|------------------|----------------|---------|
| 802.11a | Ant1 | 5180 | 3.93 | <=11 | PASS |
| | Ant2 | 5180 | 2.64 | <=11 | PASS |
| | Ant1 | 5200 | 4.25 | <=11 | PASS |
| | Ant2 | 5200 | 0.75 | <=11 | PASS |
| | Ant1 | 5240 | 2.93 | <=11 | PASS |
| | Ant2 | 5240 | 1.15 | <=11 | PASS |
| | Ant1 | 5745 | 0.76 | <=30 | PASS |
| | Ant2 | 5745 | -1.11 | <=30 | PASS |
| | Ant1 | 5785 | 1.15 | <=30 | PASS |
| | Ant2 | 5785 | -0.51 | <=30 | PASS |
| | Ant1 | 5825 | 1.01 | <=30 | PASS |
| | Ant2 | 5825 | -1.05 | <=30 | PASS |
| 802.11n(HT20) | Ant1 | 5180 | 2.66 | <=11 | PASS |
| | Ant2 | 5180 | 3.25 | <=11 | PASS |
| | Total | 5180 | 5.98 | <=9.87 | PASS |
| | Ant1 | 5200 | 3.68 | <=11 | PASS |
| | Ant2 | 5200 | 2.58 | <=11 | PASS |
| | Total | 5200 | 6.18 | <=9.87 | PASS |
| | Ant1 | 5240 | 3.09 | <=11 | PASS |
| | Ant2 | 5240 | 1.37 | <=11 | PASS |
| | Total | 5240 | 5.32 | <=9.87 | PASS |
| | Ant1 | 5745 | 0.02 | <=30 | PASS |
| | Ant2 | 5745 | -0.71 | <=30 | PASS |
| | Total | 5745 | 2.68 | <=28.74 | PASS |
| | Ant1 | 5785 | 0.47 | <=30 | PASS |
| | Ant2 | 5785 | -0.88 | <=30 | PASS |
| | Total | 5785 | 2.86 | <=28.74 | PASS |
| | Ant1 | 5825 | 0.22 | <=30 | PASS |
| | Ant2 | 5825 | -1.61 | <=30 | PASS |
| | Total | 5825 | 2.41 | <=28.74 | PASS |
| 802.11n(HT40) | Ant1 | 5190 | 0.13 | <=11 | PASS |
| | Ant2 | 5190 | -0.88 | <=11 | PASS |
| | Total | 5190 | 2.66 | <=9.87 | PASS |
| | Ant1 | 5230 | 0.07 | <=11 | PASS |
| | Ant2 | 5230 | -2.02 | <=11 | PASS |
| | Total | 5230 | 2.16 | <=9.87 | PASS |
| | Ant1 | 5755 | -3.04 | <=30 | PASS |
| | Ant2 | 5755 | -4.27 | <=30 | PASS |
| | Total | 5755 | -0.60 | <=28.74 | PASS |
| | Ant1 | 5795 | -3.08 | <=30 | PASS |
| | Ant2 | 5795 | -4.43 | <=30 | PASS |

| | | | | | |
|-----------------|-------|------|-------|---------|------|
| | Total | 5795 | -0.69 | <=28.74 | PASS |
| 802.11ac(VHT20) | Ant1 | 5180 | 3.37 | <=11 | PASS |
| | Ant2 | 5180 | 1.95 | <=11 | PASS |
| | Total | 5180 | 5.73 | <=9.87 | PASS |
| | Ant1 | 5200 | 3.19 | <=11 | PASS |
| | Ant2 | 5200 | 0.9 | <=11 | PASS |
| | Total | 5200 | 5.20 | <=9.87 | PASS |
| | Ant1 | 5240 | 2.42 | <=11 | PASS |
| | Ant2 | 5240 | 1.72 | <=11 | PASS |
| | Total | 5240 | 5.09 | <=9.87 | PASS |
| | Ant1 | 5745 | -0.02 | <=30 | PASS |
| | Ant2 | 5745 | -0.19 | <=30 | PASS |
| | Total | 5745 | 2.91 | <=28.74 | PASS |
| | Ant1 | 5785 | 0.68 | <=30 | PASS |
| | Ant2 | 5785 | 0.19 | <=30 | PASS |
| | Total | 5785 | 3.45 | <=28.74 | PASS |
| | Ant1 | 5825 | 1.06 | <=30 | PASS |
| | Ant2 | 5825 | -0.82 | <=30 | PASS |
| | Total | 5825 | 3.23 | <=28.74 | PASS |
| 802.11ac(VHT40) | Ant1 | 5190 | 0.43 | <=11 | PASS |
| | Ant2 | 5190 | -1.56 | <=11 | PASS |
| | Total | 5190 | 2.56 | <=9.87 | PASS |
| | Ant1 | 5230 | -0.56 | <=11 | PASS |
| | Ant2 | 5230 | -1.75 | <=11 | PASS |
| | Total | 5230 | 1.90 | <=9.87 | PASS |
| | Ant1 | 5755 | -3.09 | <=30 | PASS |
| | Ant2 | 5755 | -4.63 | <=30 | PASS |
| | Total | 5755 | -0.78 | <=28.74 | PASS |
| | Ant1 | 5795 | -3.27 | <=30 | PASS |
| | Ant2 | 5795 | -4.47 | <=30 | PASS |
| | Total | 5795 | -0.82 | <=28.74 | PASS |
| 802.11ac(VHT80) | Ant1 | 5210 | -3.23 | <=11 | PASS |
| | Ant2 | 5210 | -5.53 | <=11 | PASS |
| | Total | 5210 | -1.22 | <=9.87 | PASS |
| | Ant1 | 5775 | -6.26 | <=30 | PASS |
| | Ant2 | 5775 | -7.54 | <=30 | PASS |
| | Total | 5775 | -3.84 | <=28.74 | PASS |

Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

3. The U-NII-1 Directional Gain=7.13dBi > 6dBi. So Pout = Plimit-(GTX-6)] = 11-1.13=9.87dBm

The U-NII-3 Directional Gain=7.26dBi > 6dBi. So Pout = Plimit-(GTX-6)] = 30-1.26=28.74dBm

Test Graphs

802.11a_Ant1_5180



802.11a_Ant2_5180



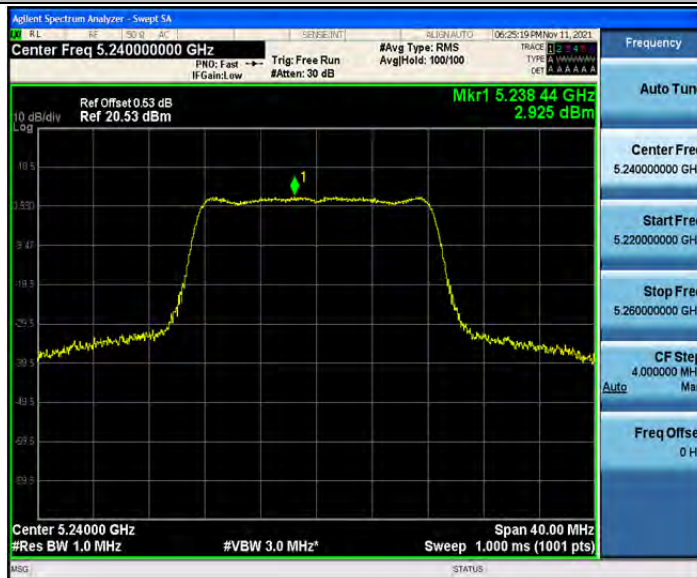
802.11a_Ant1_5200



802.11a_Ant2_5200



802.11a_Ant1_5240



802.11a_Ant2_5240



802.11a_Ant1_5745



802.11a_Ant2_5745



802.11a_Ant1_5785



802.11a_Ant2_5785



802.11a_Ant1_5825



802.11a_Ant2_5825



802.11n(HT20)_Ant1_5180



802.11n(HT20)_Ant2_5180



802.11n(HT20)_Ant1_5200



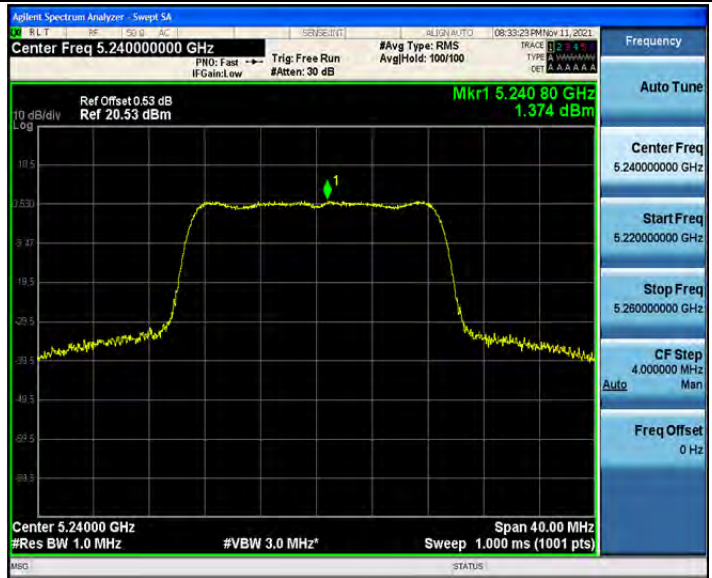
802.11n(HT20)_Ant2_5200



802.11n(HT20)_Ant1_5240



802.11n(HT20)_Ant2_5240



802.11n(HT20)_Ant1_5745



802.11n(HT20)_Ant2_5745



802.11n(HT20)_Ant1_5785



802.11n(HT20)_Ant2_5785



802.11n(HT20)_Ant1_5825



802.11n(HT20)_Ant2_5825



802.11n(HT40)_Ant1_5190



802.11n(HT40)_Ant2_5190



802.11n(HT40)_Ant1_5230



802.11n(HT40)_Ant2_5230



802.11n(HT40)_Ant1_5755



802.11n(HT40)_Ant2_5755



802.11n(HT40)_Ant1_5795



802.11n(HT40)_Ant2_5795



802.11ac(VHT20)_Ant1_5180



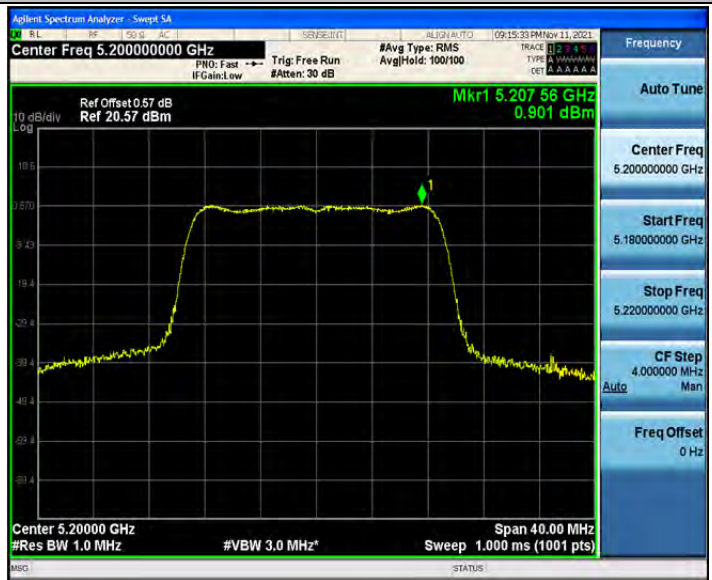
802.11ac(VHT20)_Ant2_5180



802.11ac(VHT20)_Ant1_5200



802.11ac(VHT20)_Ant2_5200



802.11ac(VHT20)_Ant1_5240



802.11ac(VHT20)_Ant2_5240



802.11ac(VHT20)_Ant1_5745



802.11ac(VHT20)_Ant2_5745



802.11ac(VHT20)_Ant1_5785



802.11ac(VHT20)_Ant2_5785



802.11ac(VHT20)_Ant1_5825



802.11ac(VHT20)_Ant2_5825



802.11ac(VHT40)_Ant1_5190



802.11ac(VHT40)_Ant2_5190



802.11ac(VHT40)_Ant1_5230



802.11ac(VHT40)_Ant2_5230



802.11ac(VHT40)_Ant1_5755



802.11ac(VHT40)_Ant2_5755



802.11ac(VHT40)_Ant1_5795



802.11ac(VHT40)_Ant2_5795



802.11ac(VHT80)_Ant1_5210



802.11ac(VHT80)_Ant2_5210



802.11ac(VHT80)_Ant1_5775



802.11ac(VHT80)_Ant2_5775



Appendix D: Frequency Stability

Test Result

| Test Mode | Antenna | Channel | Voltage | | | | Limit (ppm) | Verdict |
|-----------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| | | | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | | |
| 20MHz | Ant1 | 5180 | NV | NT | 5000 | 0.965251 | 20 | PASS |
| | | | LV | NT | 5000 | 0.965251 | 20 | PASS |
| | | | HV | NT | 6000 | 1.158301 | 20 | PASS |
| | Ant2 | 5180 | NV | NT | 11000 | 2.123552 | 20 | PASS |
| | | | LV | NT | 10000 | 1.930502 | 20 | PASS |
| | | | HV | NT | 11000 | 2.123552 | 20 | PASS |
| | Ant1 | 5200 | NV | NT | 13000 | 2.500000 | 20 | PASS |
| | | | LV | NT | 11000 | 2.115385 | 20 | PASS |
| | | | HV | NT | 7000 | 1.346154 | 20 | PASS |
| | Ant2 | 5200 | NV | NT | -10000 | -1.923077 | 20 | PASS |
| | | | LV | NT | -10000 | -1.923077 | 20 | PASS |
| | | | HV | NT | -12000 | -2.307692 | 20 | PASS |
| | Ant1 | 5240 | NV | NT | -17000 | -3.244275 | 20 | PASS |
| | | | LV | NT | -17000 | -3.244275 | 20 | PASS |
| | | | HV | NT | -17000 | -3.244275 | 20 | PASS |
| | Ant2 | 5240 | NV | NT | -23000 | -4.389313 | 20 | PASS |
| | | | LV | NT | -23000 | -4.389313 | 20 | PASS |
| | | | HV | NT | -23000 | -4.389313 | 20 | PASS |
| | Ant1 | 5745 | NV | NT | -24000 | -4.177546 | 20 | PASS |
| | | | LV | NT | -24000 | -4.177546 | 20 | PASS |
| | | | HV | NT | -23000 | -4.003481 | 20 | PASS |
| | Ant2 | 5745 | NV | NT | -4000 | -0.696258 | 20 | PASS |
| | | | LV | NT | -4000 | -0.696258 | 20 | PASS |
| | | | HV | NT | -4000 | -0.696258 | 20 | PASS |
| | Ant1 | 5785 | NV | NT | -11000 | -1.901469 | 20 | PASS |
| | | | LV | NT | -12000 | -2.074330 | 20 | PASS |
| | | | HV | NT | -12000 | -2.074330 | 20 | PASS |
| | Ant2 | 5785 | NV | NT | -18000 | -3.111495 | 20 | PASS |
| | | | LV | NT | -18000 | -3.111495 | 20 | PASS |
| | | | HV | NT | -19000 | -3.284356 | 20 | PASS |
| | Ant1 | 5825 | NV | NT | -20000 | -3.433476 | 20 | PASS |
| | | | LV | NT | -21000 | -3.605150 | 20 | PASS |
| | | | HV | NT | -21000 | -3.605150 | 20 | PASS |
| | Ant2 | 5825 | NV | NT | -24000 | -4.120172 | 20 | PASS |
| | | | LV | NT | -24000 | -4.120172 | 20 | PASS |
| | | | HV | NT | -24000 | -4.120172 | 20 | PASS |
| 40MHz | Ant1 | 5190 | NV | NT | -20000 | -3.853565 | 20 | PASS |
| | | | LV | NT | -22000 | -4.238921 | 20 | PASS |
| | | | HV | NT | -21000 | -4.046243 | 20 | PASS |
| | Ant2 | 5190 | NV | NT | -24000 | -4.624277 | 20 | PASS |

| | | | | | | | | |
|-------|------|------|----|----|--------|-----------|----|------|
| | Ant1 | 5230 | LV | NT | -22000 | -4.238921 | 20 | PASS |
| | | | HV | NT | -22000 | -4.238921 | 20 | PASS |
| | | | NV | NT | -21000 | -4.015296 | 20 | PASS |
| | Ant2 | 5230 | LV | NT | -22000 | -4.206501 | 20 | PASS |
| | | | HV | NT | -23000 | -4.397706 | 20 | PASS |
| | | | NV | NT | -24000 | -4.588910 | 20 | PASS |
| | Ant1 | 5755 | LV | NT | -24000 | -4.170287 | 20 | PASS |
| | | | HV | NT | -24000 | -4.170287 | 20 | PASS |
| | | | NV | NT | -23000 | -3.996525 | 20 | PASS |
| | Ant2 | 5755 | LV | NT | -26000 | -4.517811 | 20 | PASS |
| | | | HV | NT | -26000 | -4.517811 | 20 | PASS |
| | | | NV | NT | -26000 | -4.517811 | 20 | PASS |
| | Ant1 | 5795 | LV | NT | -26000 | -4.486626 | 20 | PASS |
| | | | HV | NT | -25000 | -4.314064 | 20 | PASS |
| | | | NV | NT | -25000 | -4.314064 | 20 | PASS |
| | Ant2 | 5795 | LV | NT | -27000 | -4.659189 | 20 | PASS |
| | | | HV | NT | -26000 | -4.486626 | 20 | PASS |
| | | | NV | NT | -25000 | -4.314064 | 20 | PASS |
| 80MHz | Ant1 | 5210 | LV | NT | -23000 | -4.414587 | 20 | PASS |
| | | | HV | NT | -23000 | -4.414587 | 20 | PASS |
| | | | NV | NT | -22000 | -4.222649 | 20 | PASS |
| | Ant2 | 5210 | LV | NT | -24000 | -4.606526 | 20 | PASS |
| | | | HV | NT | -23000 | -4.414587 | 20 | PASS |
| | | | NV | NT | -23000 | -4.414587 | 20 | PASS |
| | Ant1 | 5775 | LV | NT | -24000 | -4.155844 | 20 | PASS |
| | | | HV | NT | -25000 | -4.329004 | 20 | PASS |
| | | | NV | NT | -23000 | -3.982684 | 20 | PASS |
| | Ant2 | 5775 | LV | NT | -27000 | -4.675325 | 20 | PASS |
| | | | HV | NT | -27000 | -4.675325 | 20 | PASS |
| | | | NV | NT | -26000 | -4.502165 | 20 | PASS |

| Temperature | | | | | | | | |
|-------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Test Mode | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 20MHz | Ant1 | 5180 | NV | 0 | 8000 | 1.544402 | 20 | PASS |
| | | | NV | 10 | 8000 | 1.544402 | 20 | PASS |
| | | | NV | 20 | 9000 | 1.737452 | 20 | PASS |
| | | | NV | 30 | 9000 | 1.737452 | 20 | PASS |
| | | | NV | 40 | 10000 | 1.930502 | 20 | PASS |
| | Ant2 | 5180 | NV | 0 | 10000 | 1.930502 | 20 | PASS |
| | | | NV | 10 | 10000 | 1.930502 | 20 | PASS |
| | | | NV | 20 | 10000 | 1.930502 | 20 | PASS |
| | | | NV | 30 | 10000 | 1.930502 | 20 | PASS |
| | | | NV | 40 | 10000 | 1.930502 | 20 | PASS |
| | Ant1 | 5200 | NV | 0 | -1000 | -0.192308 | 20 | PASS |
| | | | NV | 10 | -1000 | -0.192308 | 20 | PASS |
| | | | NV | 20 | -4000 | -0.769231 | 20 | PASS |
| | | | NV | 30 | -4000 | -0.769231 | 20 | PASS |
| | | | NV | 40 | -6000 | -1.153846 | 20 | PASS |
| | Ant2 | 5200 | NV | 0 | -15000 | -2.884615 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.884615 | 20 | PASS |
| | | | NV | 20 | -15000 | -2.884615 | 20 | PASS |
| | | | NV | 30 | -16000 | -3.076923 | 20 | PASS |
| | | | NV | 40 | -16000 | -3.076923 | 20 | PASS |
| | Ant1 | 5240 | NV | 0 | -19000 | -3.625954 | 20 | PASS |
| | | | NV | 10 | -20000 | -3.816794 | 20 | PASS |
| | | | NV | 20 | -21000 | -4.007634 | 20 | PASS |
| | | | NV | 30 | -20000 | -3.816794 | 20 | PASS |
| | | | NV | 40 | -21000 | -4.007634 | 20 | PASS |
| | Ant2 | 5240 | NV | 0 | -23000 | -4.389313 | 20 | PASS |
| | | | NV | 10 | -23000 | -4.389313 | 20 | PASS |
| | | | NV | 20 | -22000 | -4.198473 | 20 | PASS |
| | | | NV | 30 | -23000 | -4.389313 | 20 | PASS |
| | | | NV | 40 | -23000 | -4.389313 | 20 | PASS |
| | Ant1 | 5745 | NV | 0 | -13000 | -2.262837 | 20 | PASS |
| | | | NV | 10 | -12000 | -2.088773 | 20 | PASS |
| | | | NV | 20 | -9000 | -1.566580 | 20 | PASS |
| | | | NV | 30 | -8000 | -1.392515 | 20 | PASS |
| | | | NV | 40 | -6000 | -1.044386 | 20 | PASS |
| | Ant2 | 5745 | NV | 0 | -7000 | -1.218451 | 20 | PASS |
| | | | NV | 10 | -9000 | -1.566580 | 20 | PASS |
| | | | NV | 20 | -9000 | -1.566580 | 20 | PASS |
| | | | NV | 30 | -10000 | -1.740644 | 20 | PASS |
| | | | NV | 40 | -10000 | -1.740644 | 20 | PASS |
| | Ant1 | 5785 | NV | 0 | -14000 | -2.420052 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 20 | -13000 | -2.247191 | 20 | PASS |

| | | | | | | | | | |
|------|-------|------|------|--------|-----------|-----------|-----------|------|------|
| | | | NV | 30 | -14000 | -2.420052 | 20 | PASS | |
| | | | NV | 40 | -16000 | -2.765774 | 20 | PASS | |
| | Ant2 | 5785 | NV | 0 | -20000 | -3.457217 | 20 | PASS | |
| | | | NV | 10 | -20000 | -3.457217 | 20 | PASS | |
| | | | NV | 20 | -20000 | -3.457217 | 20 | PASS | |
| | | | NV | 30 | -20000 | -3.457217 | 20 | PASS | |
| | | | NV | 40 | -20000 | -3.457217 | 20 | PASS | |
| | | | NV | 0 | -22000 | -3.776824 | 20 | PASS | |
| | Ant1 | 5825 | NV | 10 | -23000 | -3.948498 | 20 | PASS | |
| | | | NV | 20 | -23000 | -3.948498 | 20 | PASS | |
| | | | NV | 30 | -24000 | -4.120172 | 20 | PASS | |
| | | | NV | 40 | -22000 | -3.776824 | 20 | PASS | |
| | | | NV | 0 | -25000 | -4.291845 | 20 | PASS | |
| | Ant2 | 5825 | NV | 10 | -25000 | -4.291845 | 20 | PASS | |
| | | | NV | 20 | -24000 | -4.120172 | 20 | PASS | |
| | | | NV | 30 | -25000 | -4.291845 | 20 | PASS | |
| | | | NV | 40 | -24000 | -4.120172 | 20 | PASS | |
| | | | NV | 0 | -22000 | -4.238921 | 20 | PASS | |
| | 40MHz | Ant1 | 5190 | NV | 10 | -22000 | -4.238921 | 20 | PASS |
| | | | | NV | 20 | -22000 | -4.238921 | 20 | PASS |
| NV | | | | 30 | -22000 | -4.238921 | 20 | PASS | |
| NV | | | | 40 | -22000 | -4.238921 | 20 | PASS | |
| NV | | | | 0 | -23000 | -4.431599 | 20 | PASS | |
| Ant2 | | 5190 | NV | 10 | -23000 | -4.431599 | 20 | PASS | |
| | | | NV | 20 | -23000 | -4.431599 | 20 | PASS | |
| | | | NV | 30 | -23000 | -4.431599 | 20 | PASS | |
| | | | NV | 40 | -23000 | -4.431599 | 20 | PASS | |
| | | | NV | 0 | -23000 | -4.397706 | 20 | PASS | |
| Ant1 | | 5230 | NV | 10 | -23000 | -4.397706 | 20 | PASS | |
| | | | NV | 20 | -22000 | -4.206501 | 20 | PASS | |
| | | | NV | 30 | -22000 | -4.206501 | 20 | PASS | |
| | | | NV | 40 | -23000 | -4.397706 | 20 | PASS | |
| | | | NV | 0 | -25000 | -4.780115 | 20 | PASS | |
| Ant2 | | 5230 | NV | 10 | -24000 | -4.588910 | 20 | PASS | |
| | | | NV | 20 | -24000 | -4.588910 | 20 | PASS | |
| | | | NV | 30 | -24000 | -4.588910 | 20 | PASS | |
| | | | NV | 40 | -24000 | -4.588910 | 20 | PASS | |
| | | | NV | 0 | -25000 | -4.344049 | 20 | PASS | |
| Ant1 | 5755 | NV | 10 | -25000 | -4.344049 | 20 | PASS | | |
| | | NV | 20 | -26000 | -4.517811 | 20 | PASS | | |
| | | NV | 30 | -25000 | -4.344049 | 20 | PASS | | |
| | | NV | 40 | -25000 | -4.344049 | 20 | PASS | | |
| | | NV | 0 | -26000 | -4.517811 | 20 | PASS | | |
| Ant2 | 5755 | NV | 10 | -27000 | -4.691573 | 20 | PASS | | |
| | | NV | 20 | -26000 | -4.517811 | 20 | PASS | | |
| | | NV | 30 | -26000 | -4.517811 | 20 | PASS | | |
| | | NV | 40 | -26000 | -4.517811 | 20 | PASS | | |

| | | | | | | | | |
|-------|------|------|----|----|--------|-----------|----|------|
| | Ant1 | 5795 | NV | 40 | -26000 | -4.517811 | 20 | PASS |
| | | | NV | 0 | -25000 | -4.314064 | 20 | PASS |
| | | | NV | 10 | -25000 | -4.314064 | 20 | PASS |
| | | | NV | 20 | -25000 | -4.314064 | 20 | PASS |
| | | | NV | 30 | -25000 | -4.314064 | 20 | PASS |
| | | | NV | 40 | -25000 | -4.314064 | 20 | PASS |
| | Ant2 | 5795 | NV | 0 | -26000 | -4.486626 | 20 | PASS |
| | | | NV | 10 | -26000 | -4.486626 | 20 | PASS |
| | | | NV | 20 | -26000 | -4.486626 | 20 | PASS |
| | | | NV | 30 | -26000 | -4.486626 | 20 | PASS |
| 80MHz | Ant1 | 5210 | NV | 0 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 10 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 20 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 30 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 40 | -23000 | -4.414587 | 20 | PASS |
| | Ant2 | 5210 | NV | 0 | -24000 | -4.606526 | 20 | PASS |
| | | | NV | 10 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 20 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 30 | -23000 | -4.414587 | 20 | PASS |
| | | | NV | 40 | -23000 | -4.414587 | 20 | PASS |
| | Ant1 | 5775 | NV | 0 | -25000 | -4.329004 | 20 | PASS |
| | | | NV | 10 | -26000 | -4.502165 | 20 | PASS |
| | | | NV | 20 | -26000 | -4.502165 | 20 | PASS |
| | | | NV | 30 | -26000 | -4.502165 | 20 | PASS |
| | | | NV | 40 | -26000 | -4.502165 | 20 | PASS |
| | Ant2 | 5775 | NV | 0 | -26000 | -4.502165 | 20 | PASS |
| | | | NV | 10 | -27000 | -4.675325 | 20 | PASS |
| | | | NV | 20 | -26000 | -4.502165 | 20 | PASS |
| | | | NV | 30 | -26000 | -4.502165 | 20 | PASS |
| | | | NV | 40 | -26000 | -4.502165 | 20 | PASS |

Appendix E: Duty Cycle

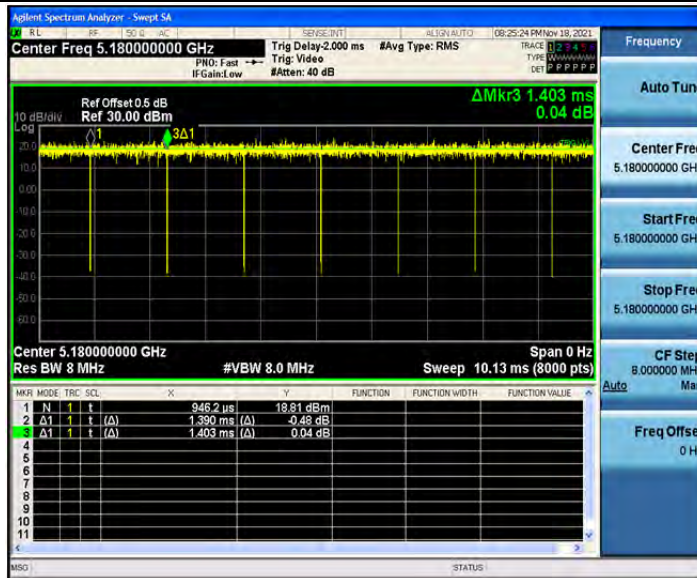
Test Result

| Test Mode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|---------------------|---------|---------|----------------------------|--------------------------|----------------|-----------------------|-----------------------------|
| 802.11a | Ant1 | 5180 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant2 | 5180 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant1 | 5200 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant2 | 5200 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant1 | 5240 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant2 | 5240 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant1 | 5745 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant2 | 5745 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant1 | 5785 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant2 | 5785 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant1 | 5825 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| | Ant2 | 5825 | 1.39 | 1.40 | 99.29 | 0.72 | 1 |
| 802.11n (HT20) | Ant1 | 5180 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5180 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant1 | 5200 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5200 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant1 | 5240 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5240 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant1 | 5745 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5745 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant1 | 5785 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5785 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant1 | 5825 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5825 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| 802.11n (HT40) | Ant1 | 5190 | 0.64 | 0.66 | 96.97 | 1.56 | 2 |
| | Ant2 | 5190 | 0.64 | 0.66 | 96.97 | 1.56 | 2 |
| | Ant1 | 5230 | 0.64 | 0.66 | 96.97 | 1.56 | 2 |
| | Ant2 | 5230 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant1 | 5755 | 0.64 | 0.66 | 96.97 | 1.56 | 2 |
| | Ant2 | 5755 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant1 | 5795 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant2 | 5795 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| 802.11ac (VHT20) | Ant1 | 5180 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant2 | 5180 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant1 | 5200 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant2 | 5200 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant1 | 5240 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant2 | 5240 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant1 | 5745 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant2 | 5745 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |

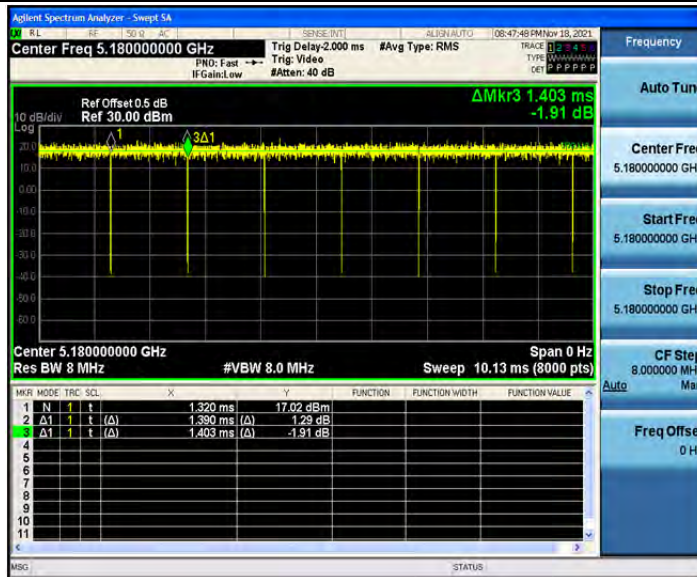
| | | | | | | | |
|---------------------|------|------|------|------|-------|------|---|
| | Ant1 | 5785 | 1.30 | 1.31 | 99.24 | 0.77 | 1 |
| | Ant2 | 5785 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant1 | 5825 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| | Ant2 | 5825 | 1.30 | 1.32 | 98.48 | 0.77 | 1 |
| 802.11ac (VHT40) | Ant1 | 5190 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant2 | 5190 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant1 | 5230 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant2 | 5230 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant1 | 5755 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant2 | 5755 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant1 | 5795 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| | Ant2 | 5795 | 0.65 | 0.66 | 98.48 | 1.54 | 2 |
| 802.11ac (VHT80) | Ant1 | 5210 | 0.32 | 0.33 | 96.97 | 3.13 | 4 |
| | Ant2 | 5210 | 0.32 | 0.33 | 96.97 | 3.13 | 4 |
| | Ant1 | 5775 | 0.32 | 0.33 | 96.97 | 3.13 | 4 |
| | Ant2 | 5775 | 0.32 | 0.33 | 96.97 | 3.13 | 4 |

Test Graphs

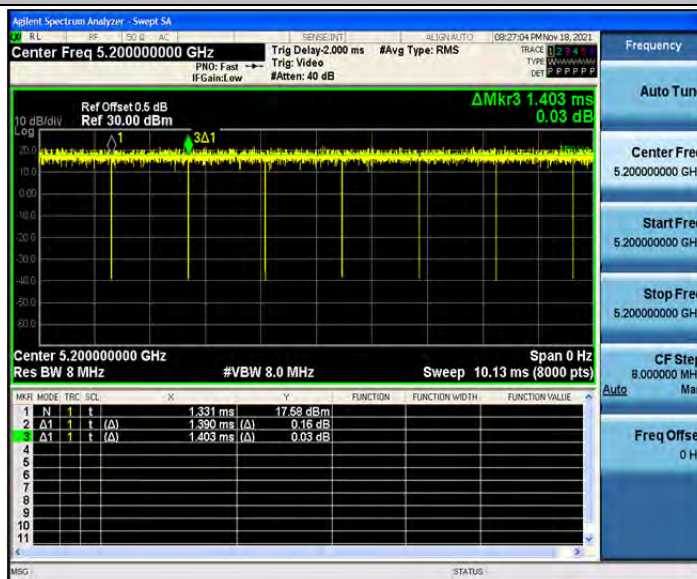
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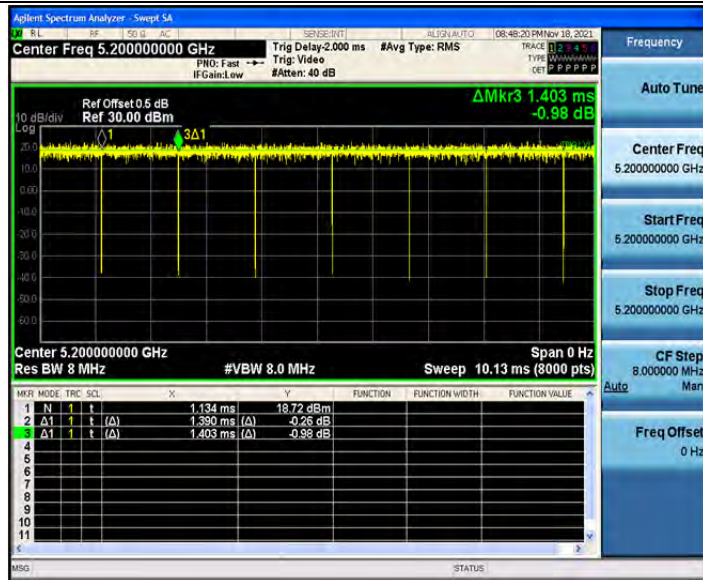
802.11a_Ant2_5180



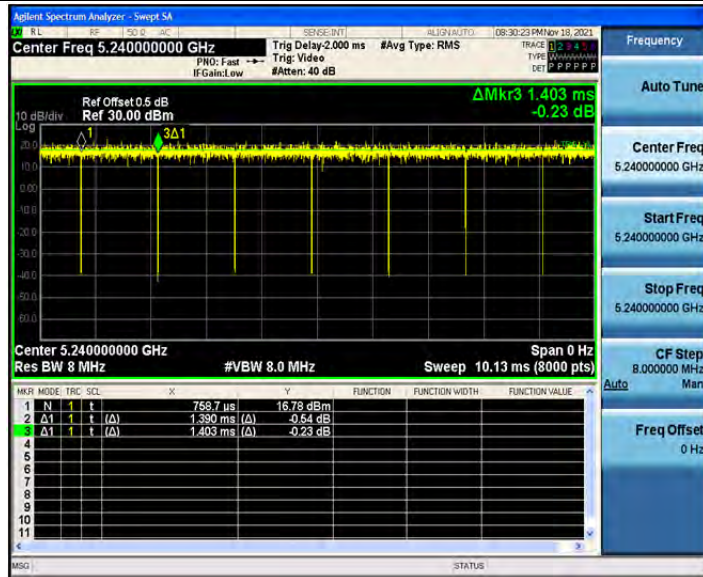
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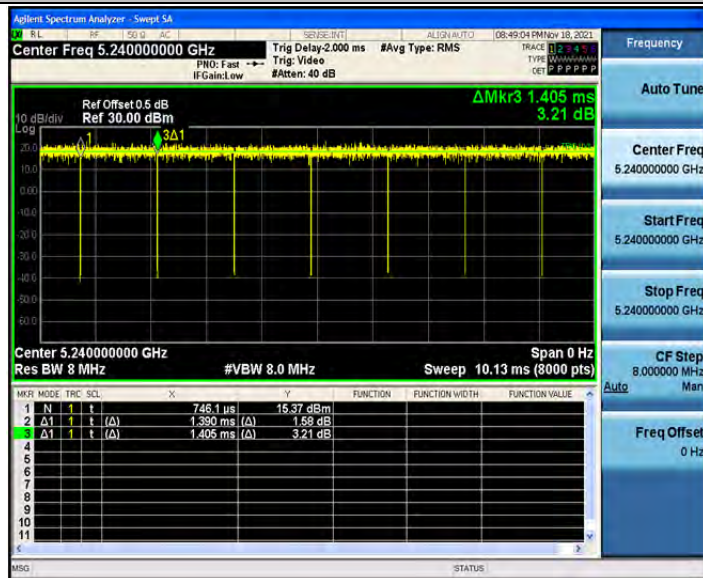
802.11a_Ant2_5200



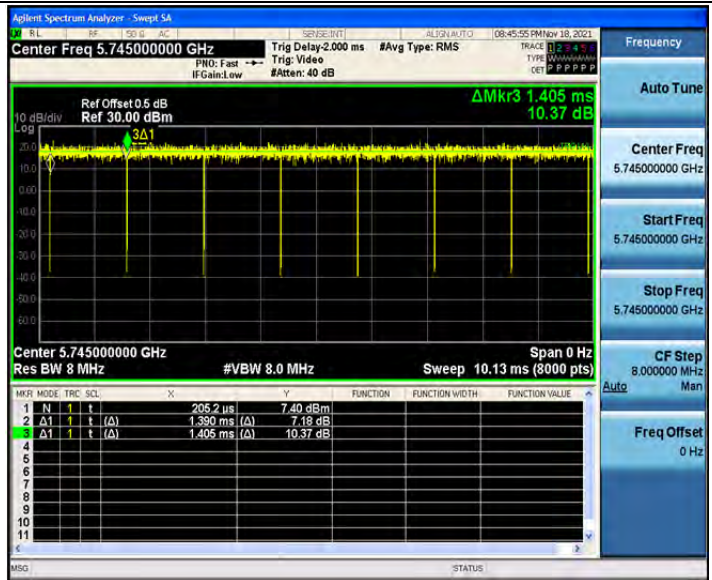
802.11a_Ant1_5240



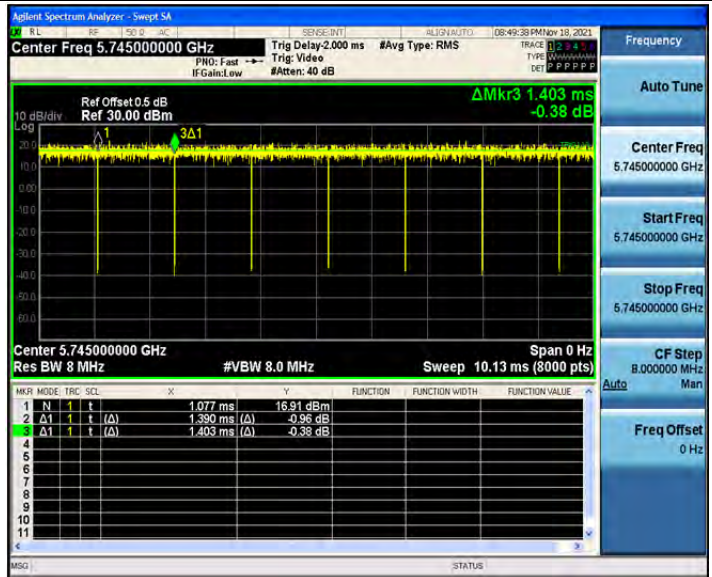
802.11a_Ant2_5240



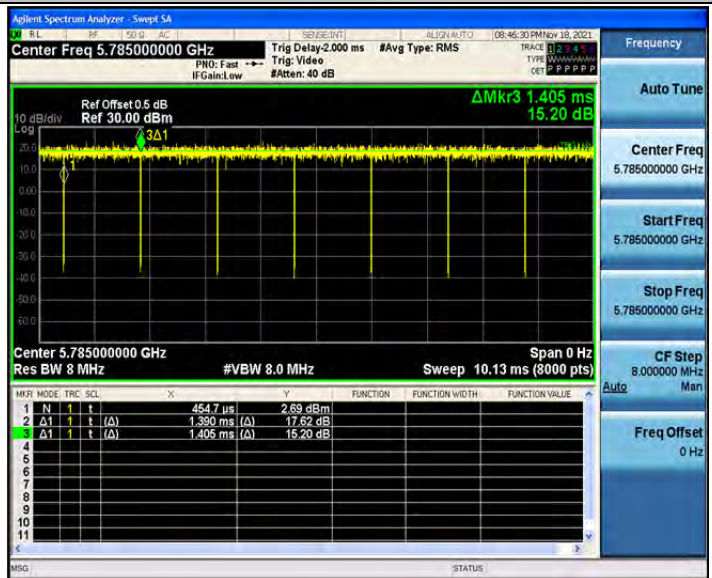
802.11a_Ant1_5745



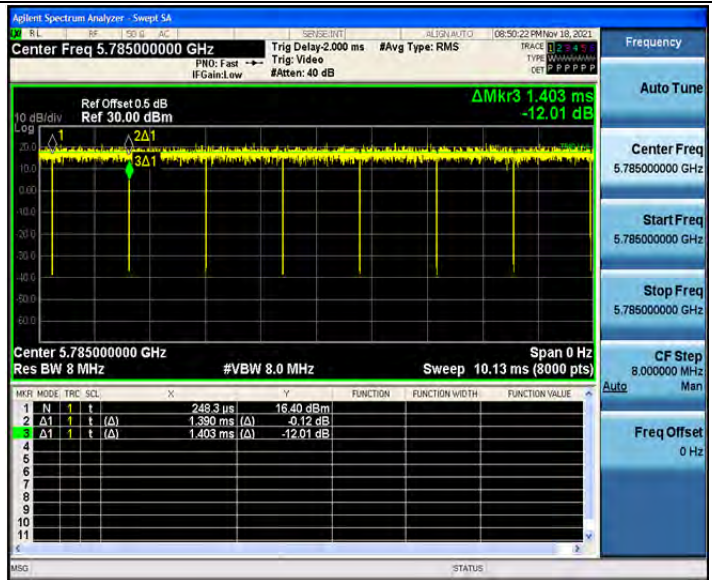
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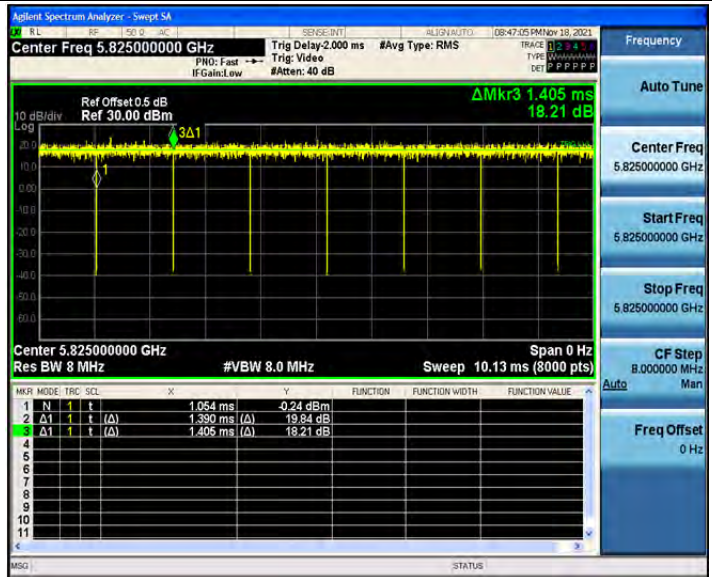
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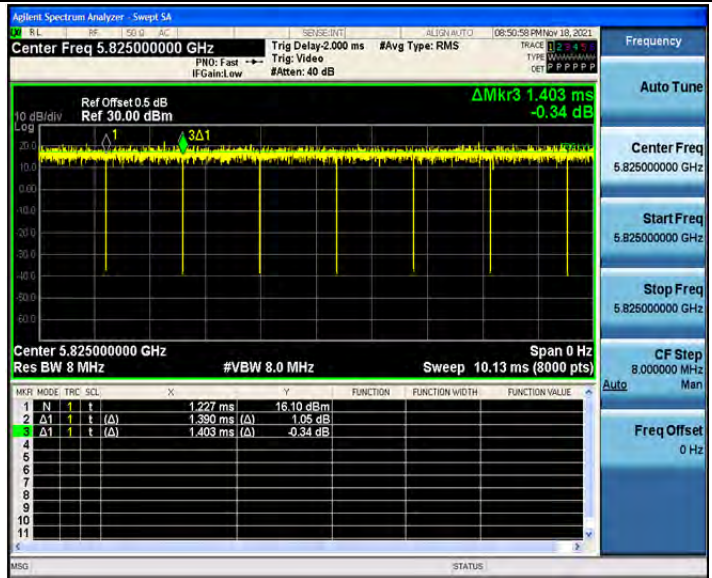
802.11a_Ant2_5785



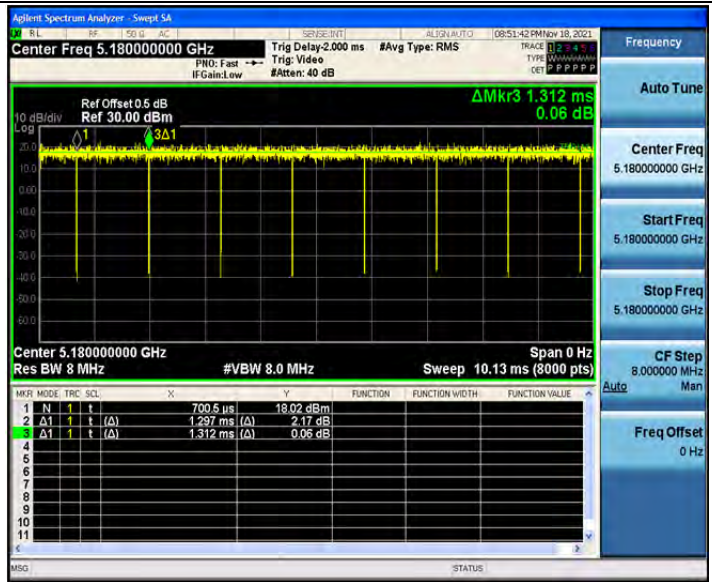
802.11a_Ant1_5825



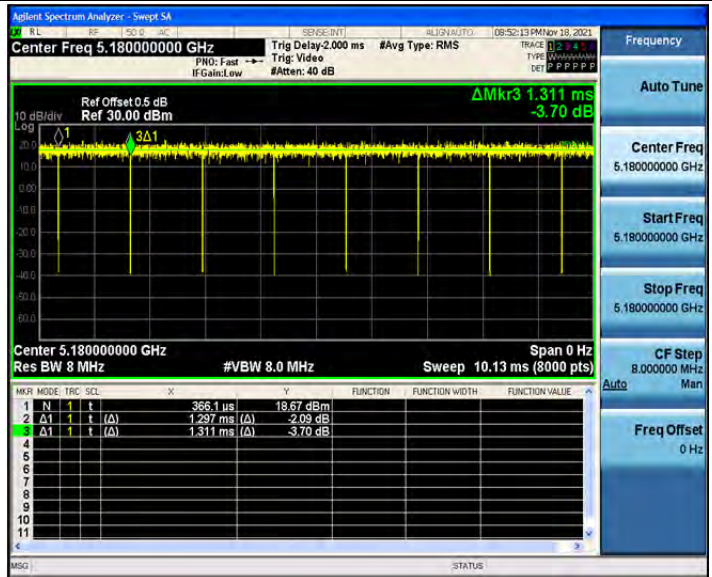
802.11a_Ant2_5825



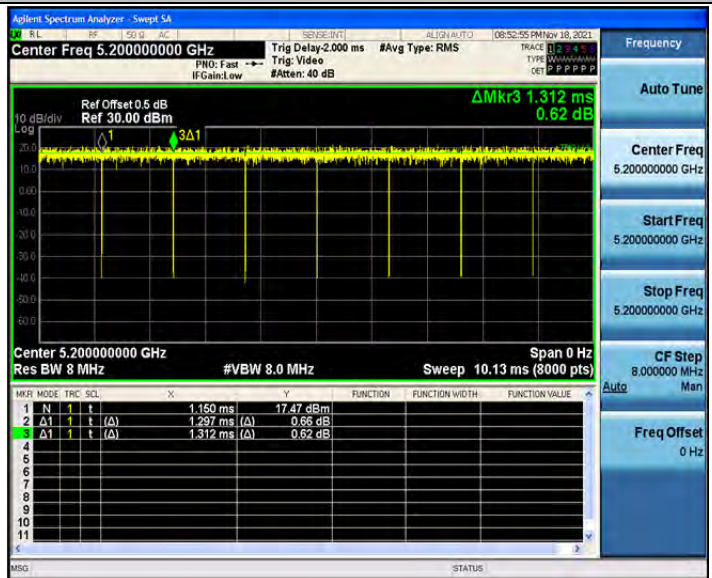
802.11n(HT20)_Ant1_5180



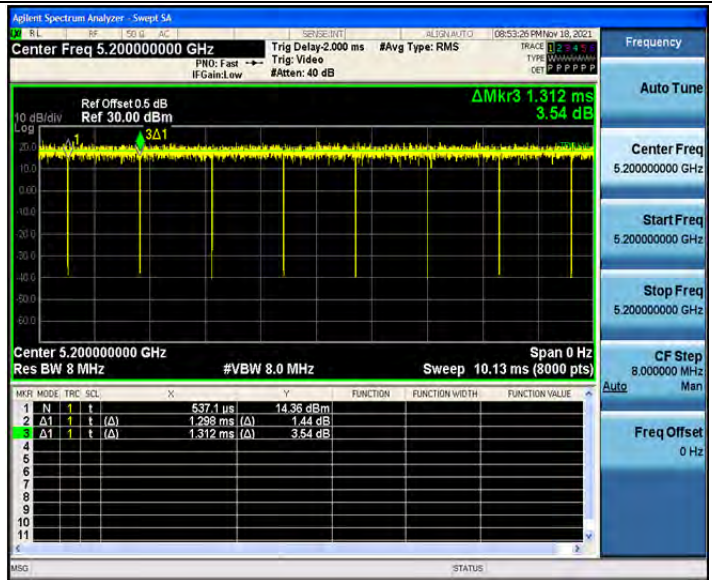
802.11n(HT20)_Ant2_5180



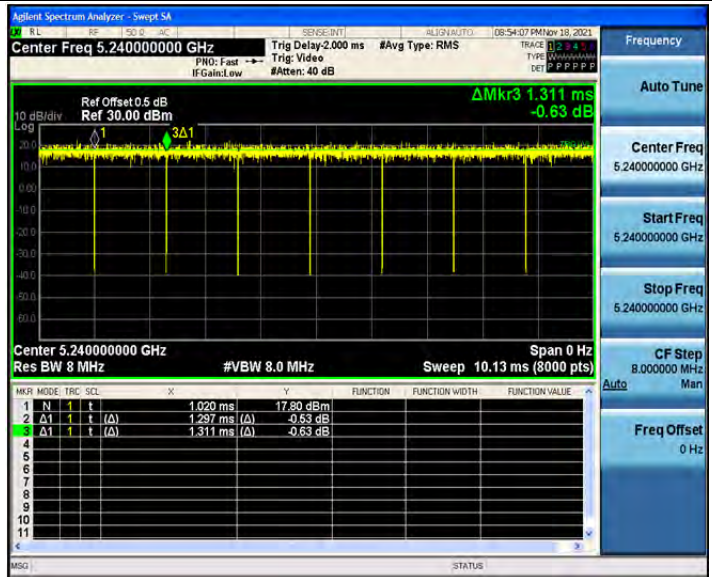
802.11n(HT20)_Ant1_5200



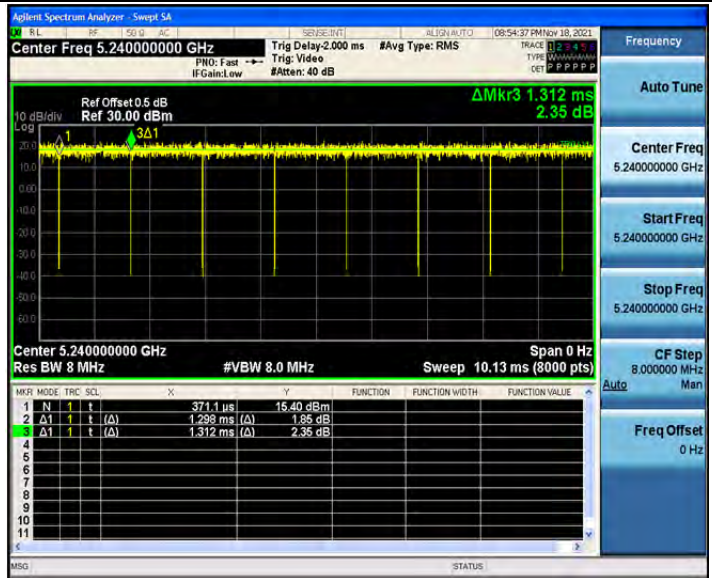
802.11n(HT20)_Ant2_5200



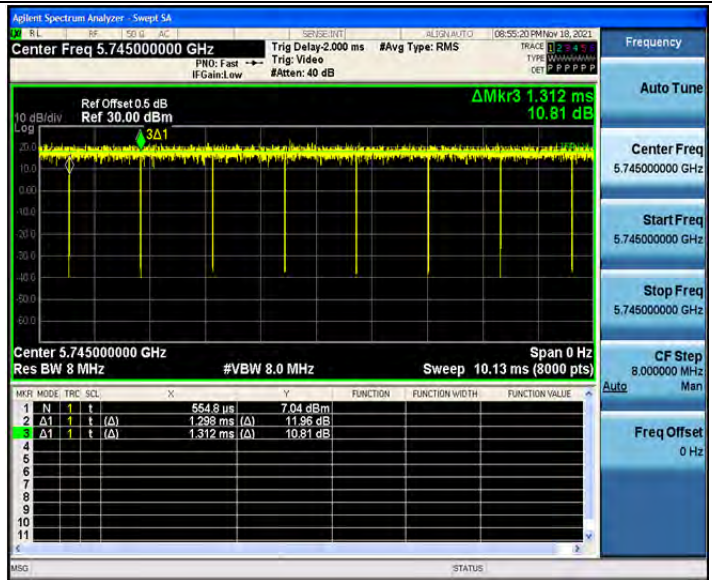
802.11n(HT20)_Ant1_5240



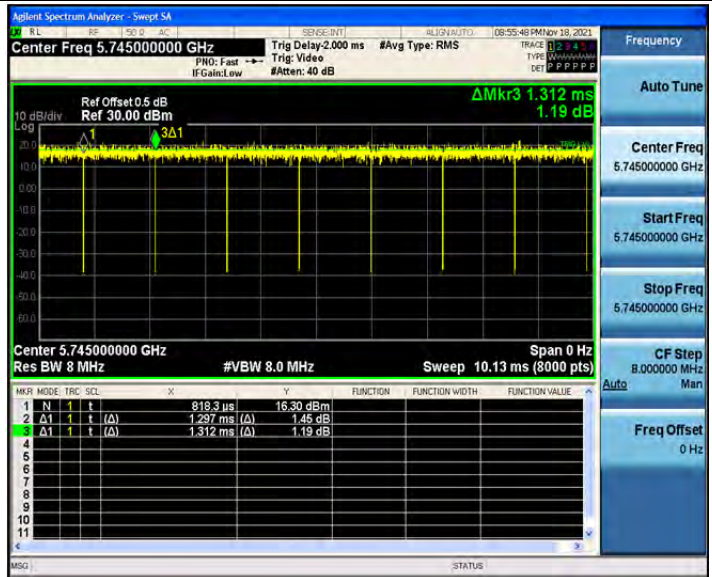
802.11n(HT20)_Ant2_5240



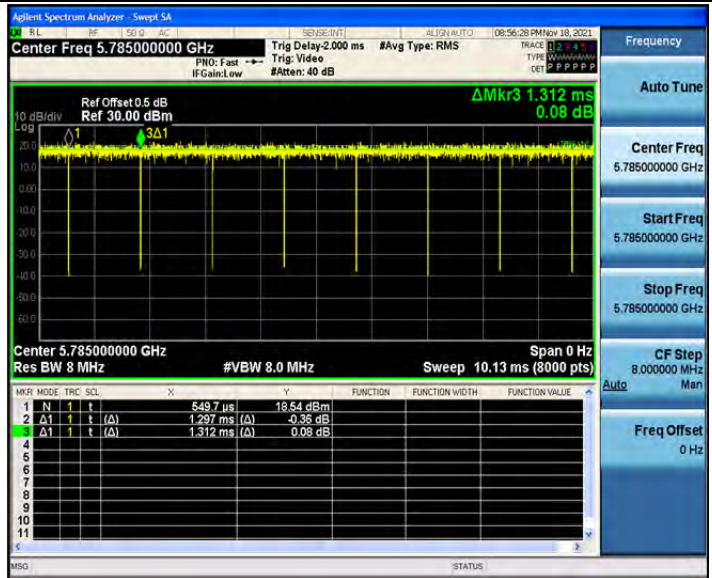
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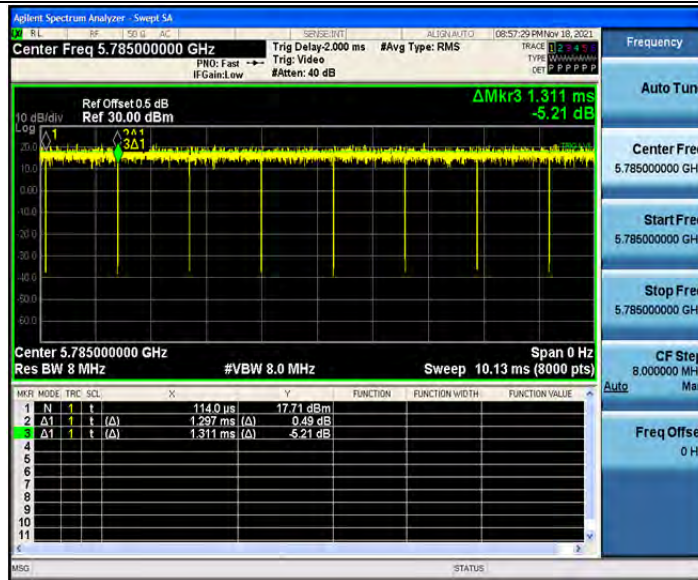
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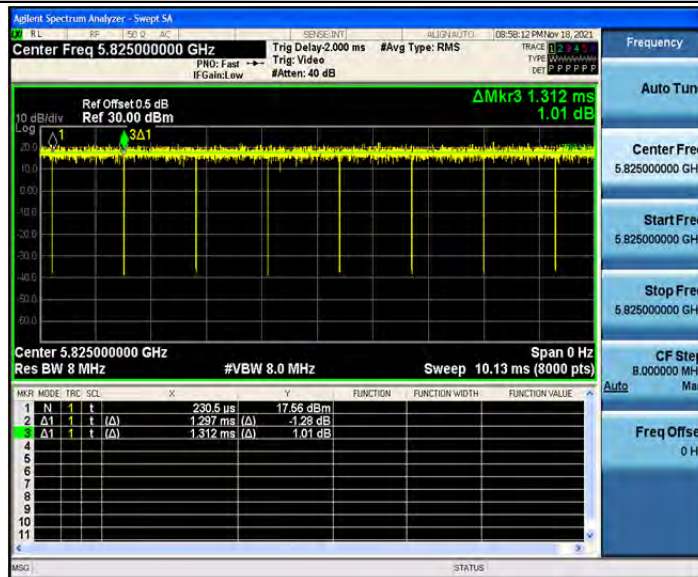
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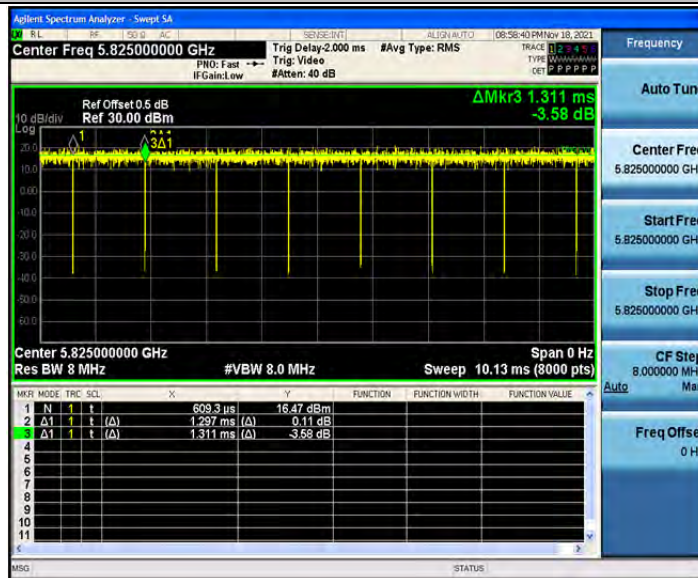
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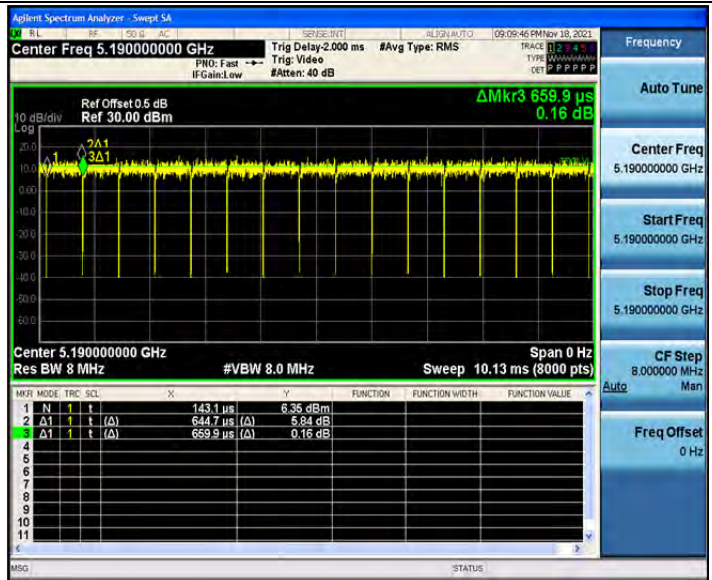
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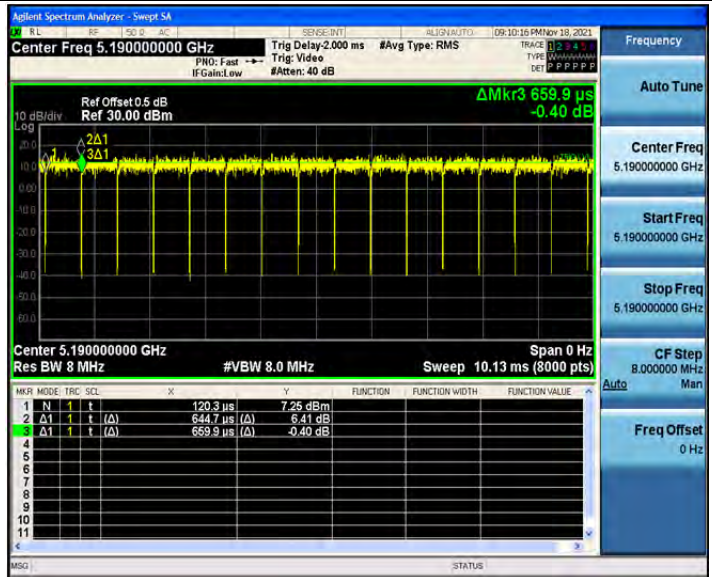
802.11n(HT20)_Ant2_5825



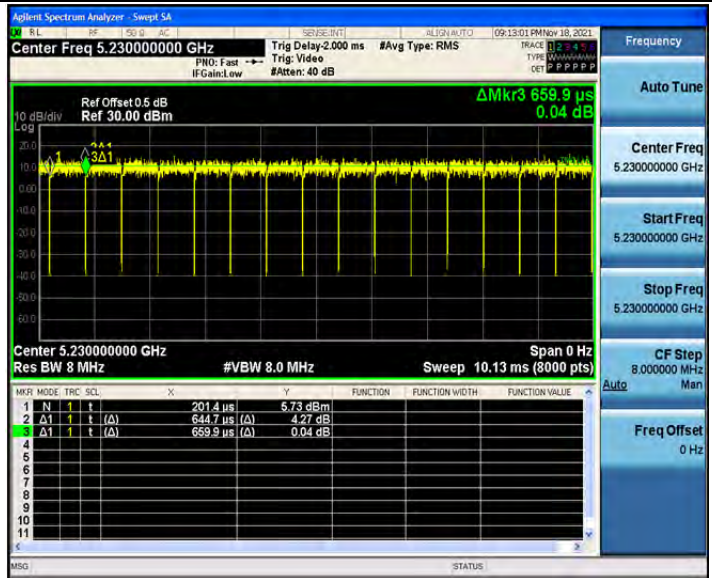
802.11n(HT40)_Ant1_5190



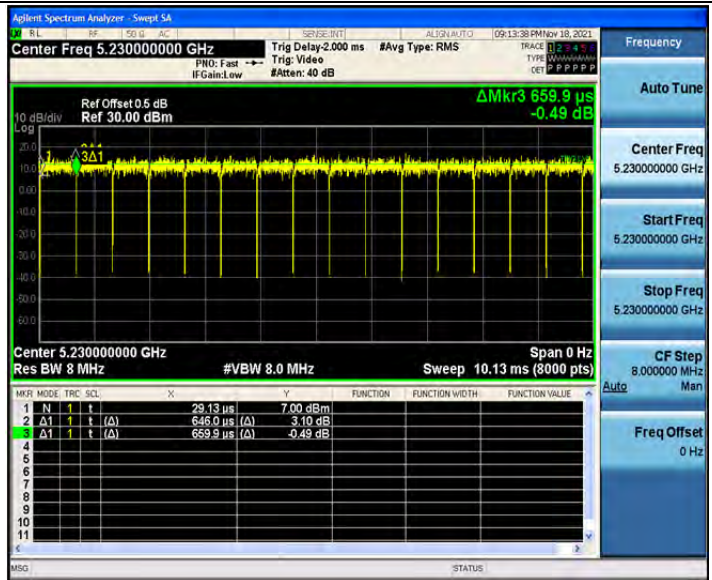
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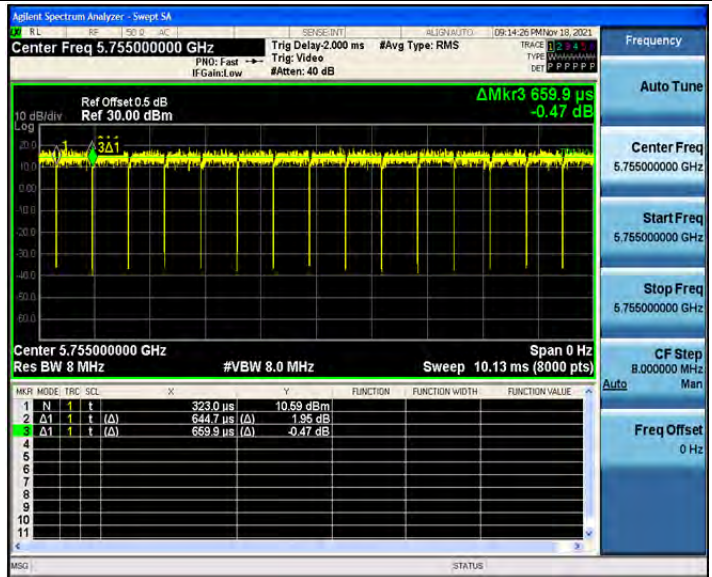
802.11n(HT40)_Ant1_5230



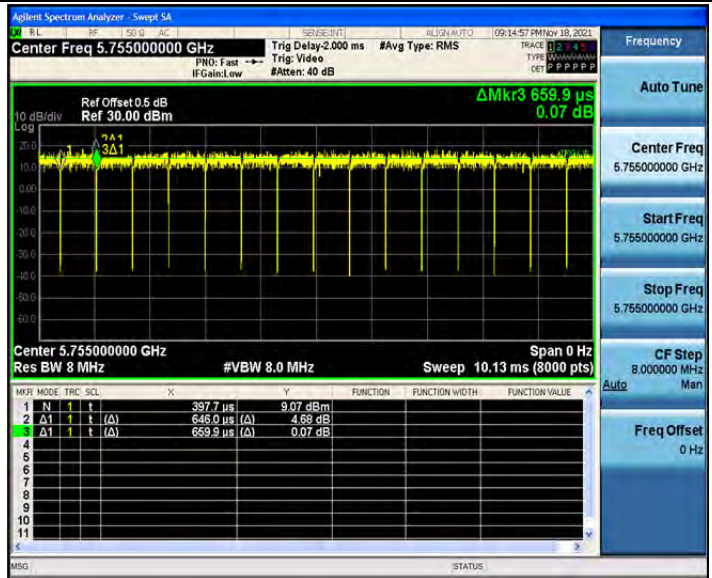
802.11n(HT40)_Ant2_5230



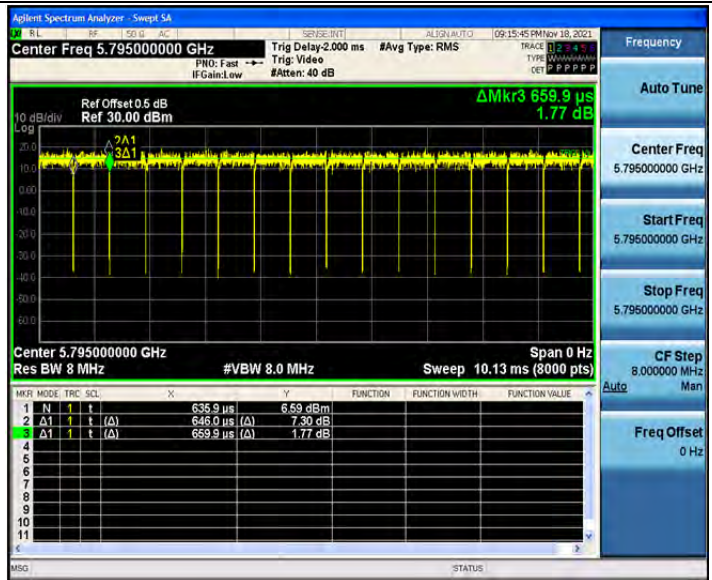
802.11n(HT40)_Ant1_5755



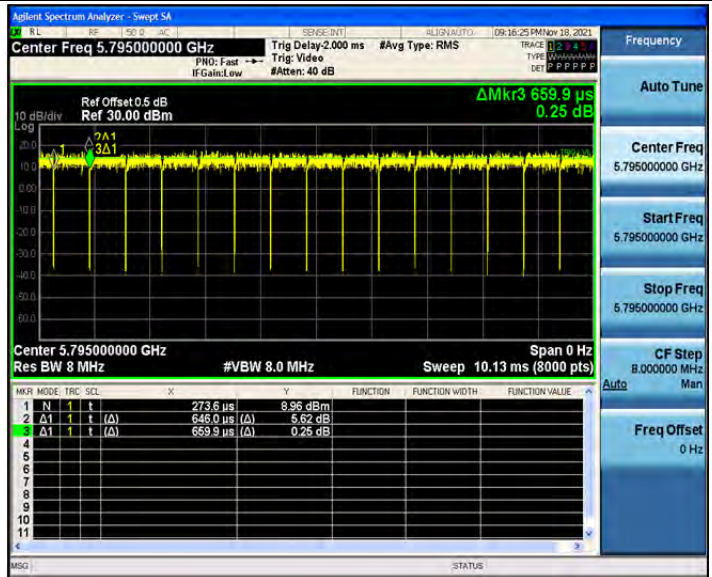
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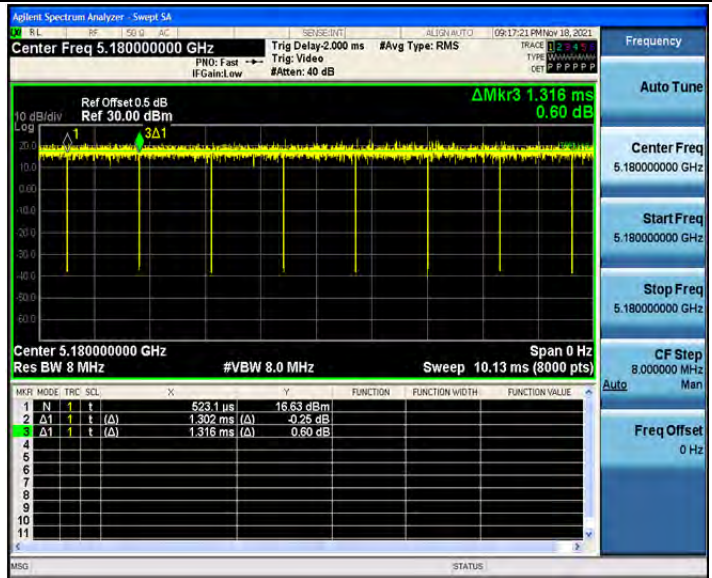
802.11n(HT40)_Ant1_5795



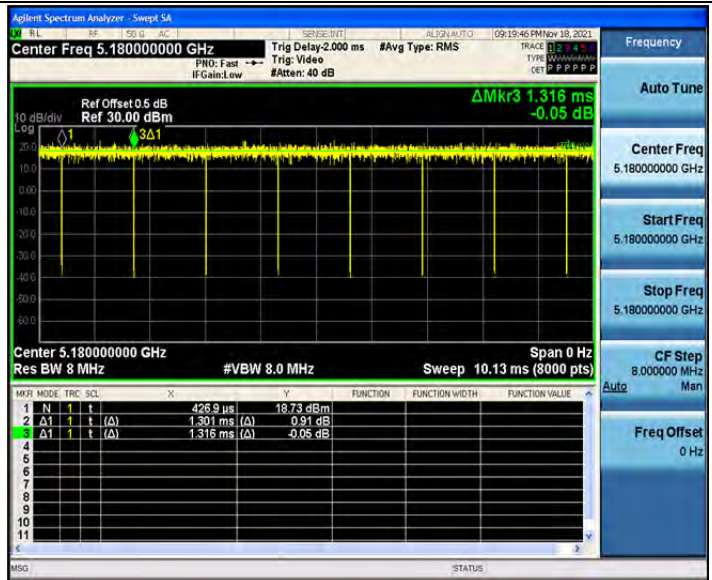
802.11n(HT40)_Ant2_5795



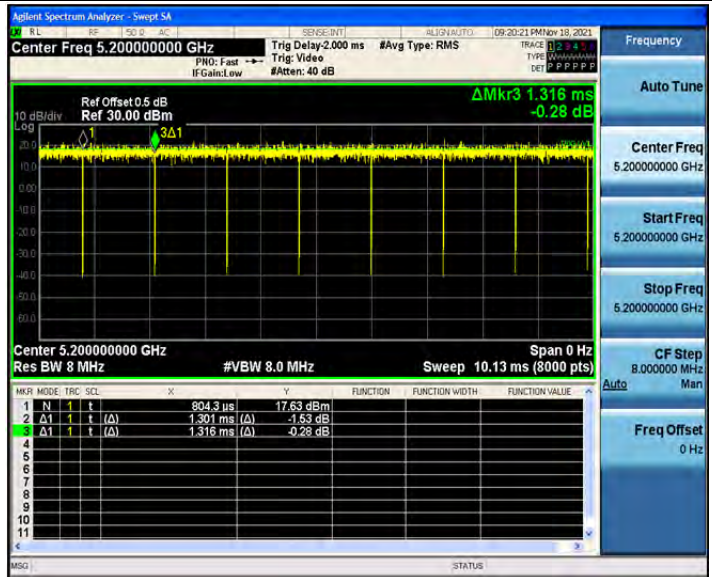
802.11ac(VHT20)_Ant1_5180



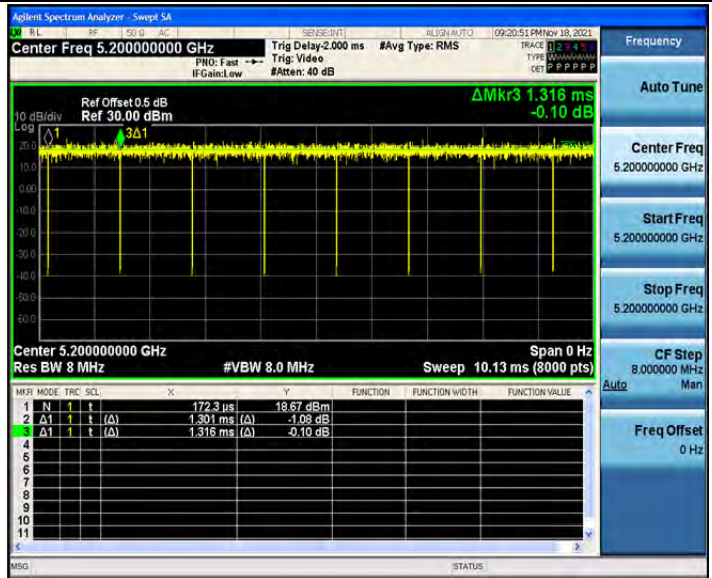
802.11ac(VHT20)_Ant2_5180



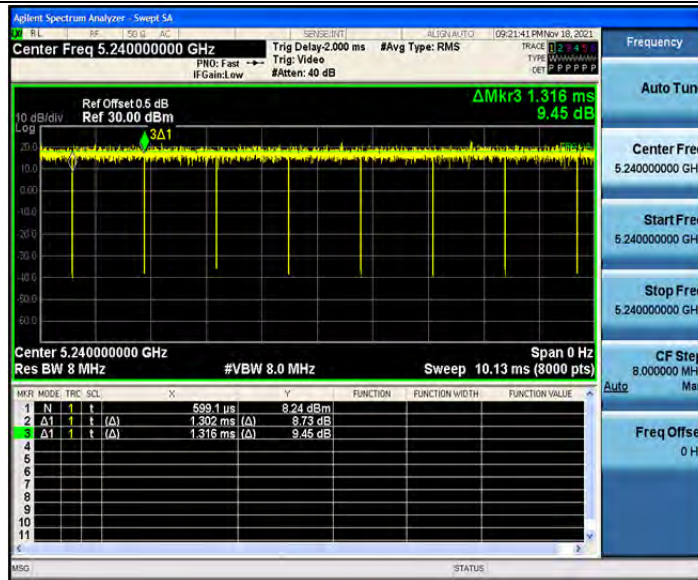
802.11ac(VHT20)_Ant1_5200



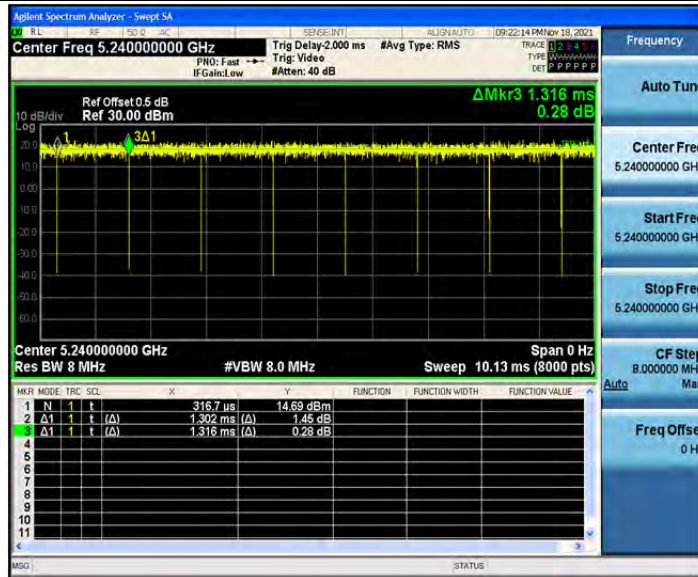
802.11ac(VHT20)_Ant2_5200



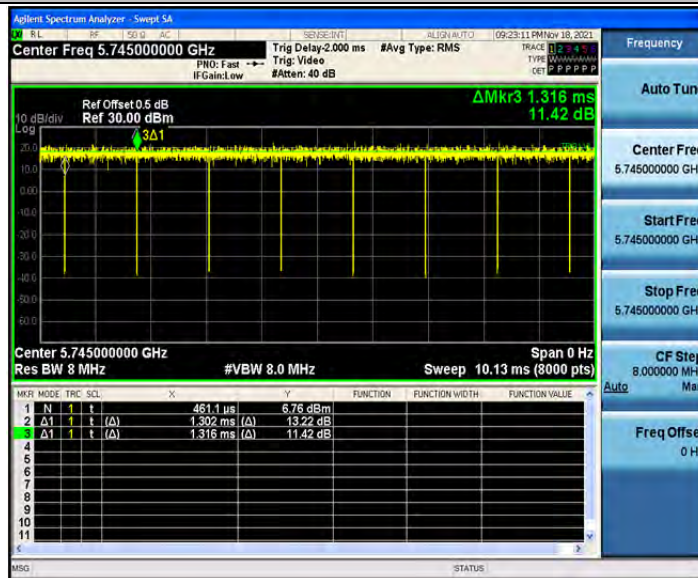
802.11ac(VHT20)_Ant1_5240



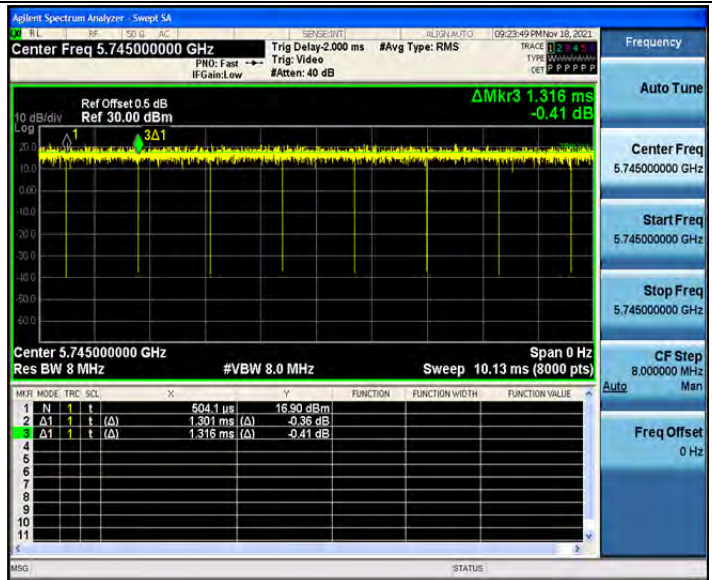
802.11ac(VHT20)_Ant2_5240



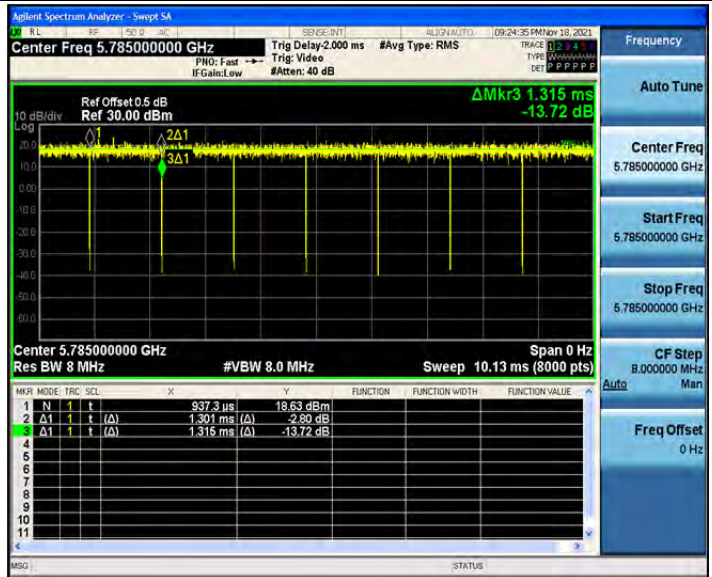
802.11ac(VHT20)_Ant1_5745



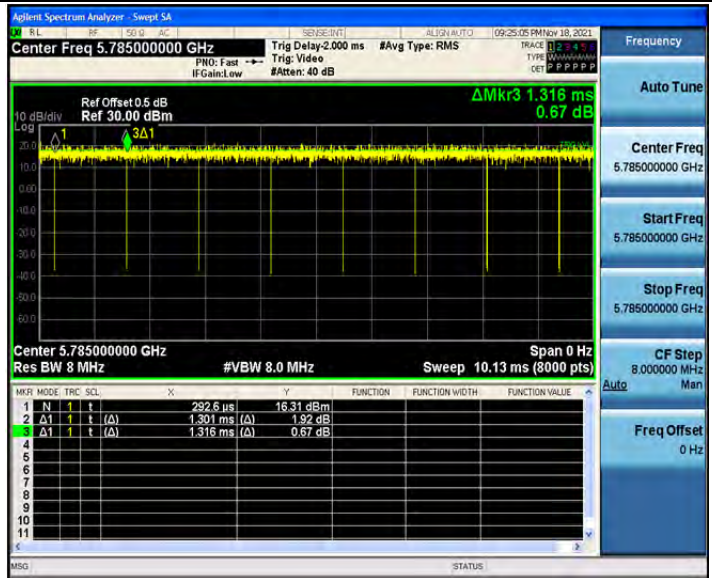
802.11ac(VHT20)_Ant2_5745



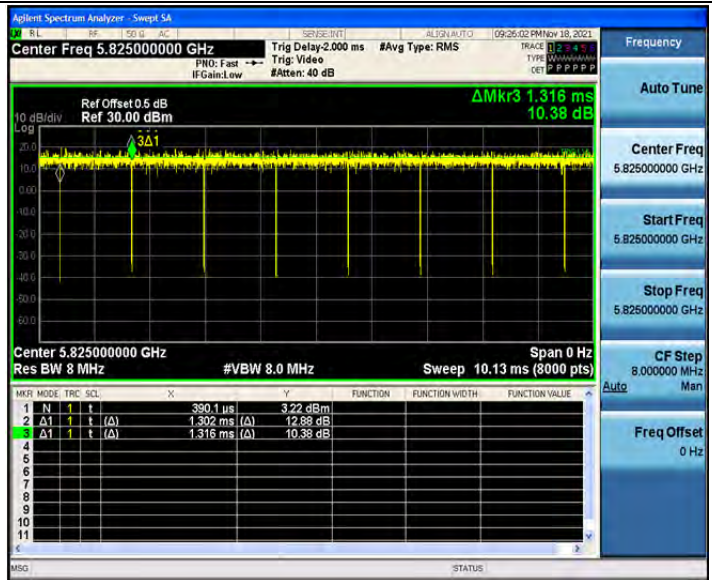
802.11ac(VHT20)_Ant1_5785



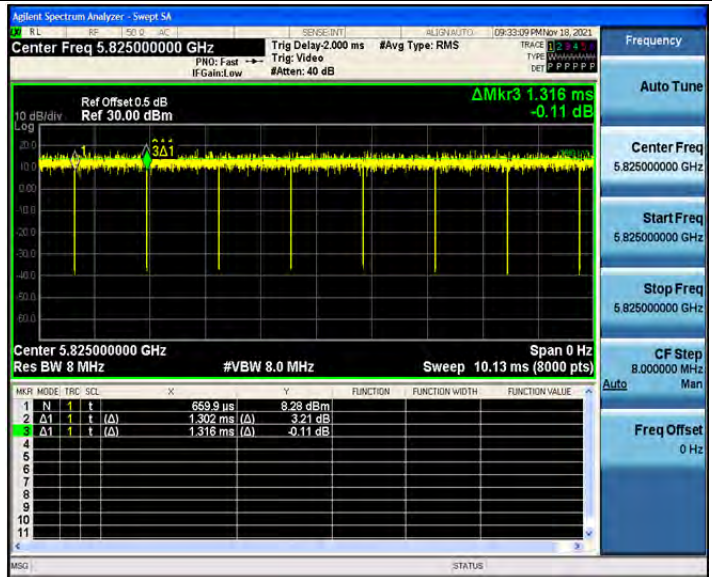
802.11ac(VHT20)_Ant2_5785



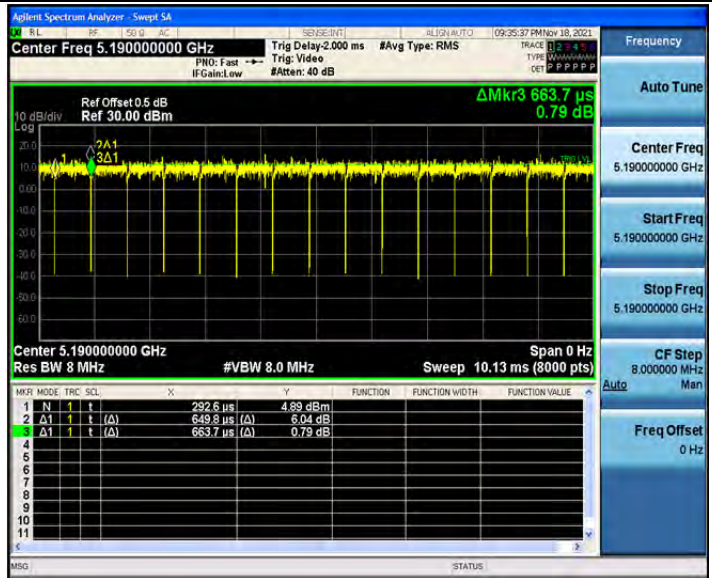
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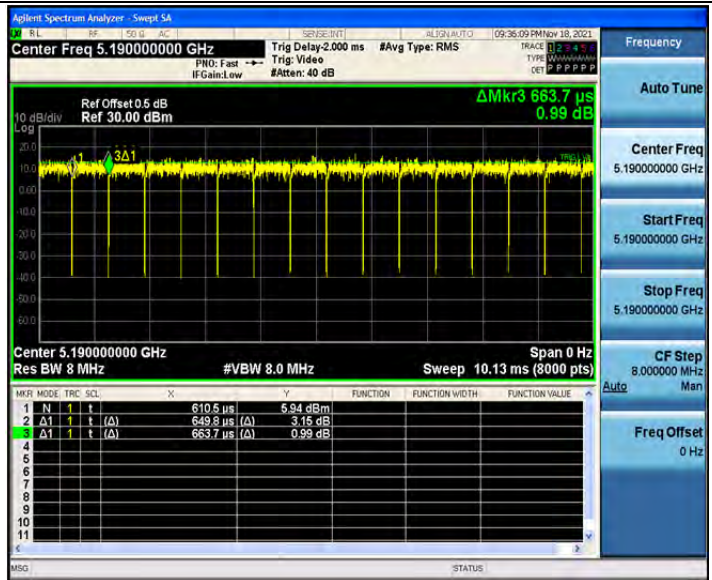
802.11ac(VHT20)_Ant2_5825



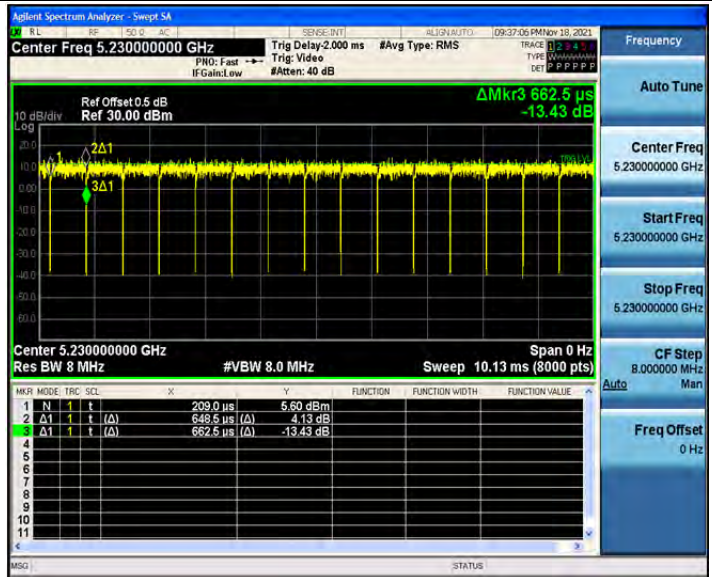
802.11ac(VHT40)_Ant1_5190



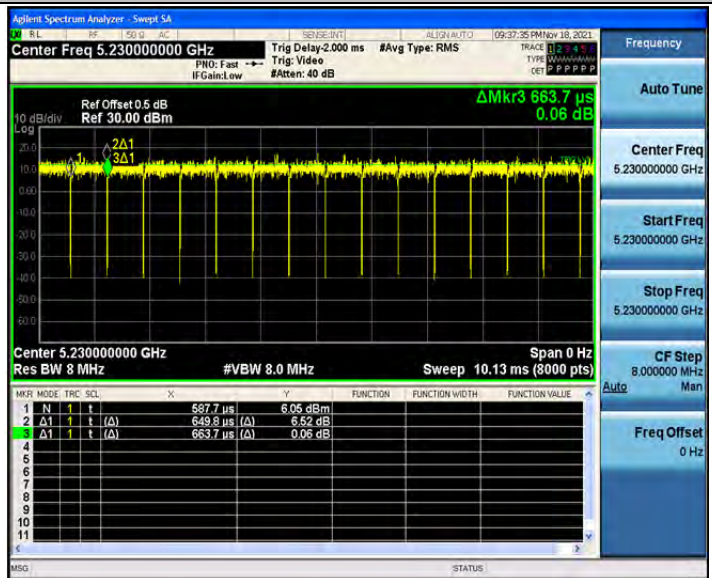
802.11ac(VHT40)_Ant2_5190



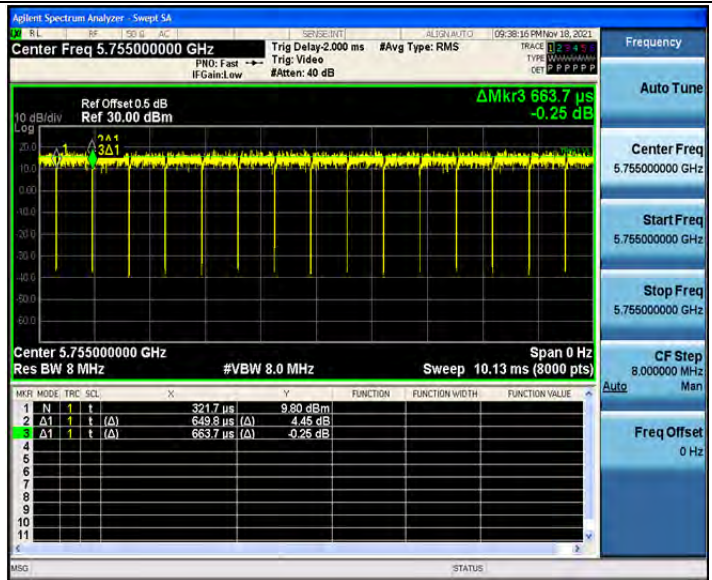
802.11ac(VHT40)_Ant1_5230



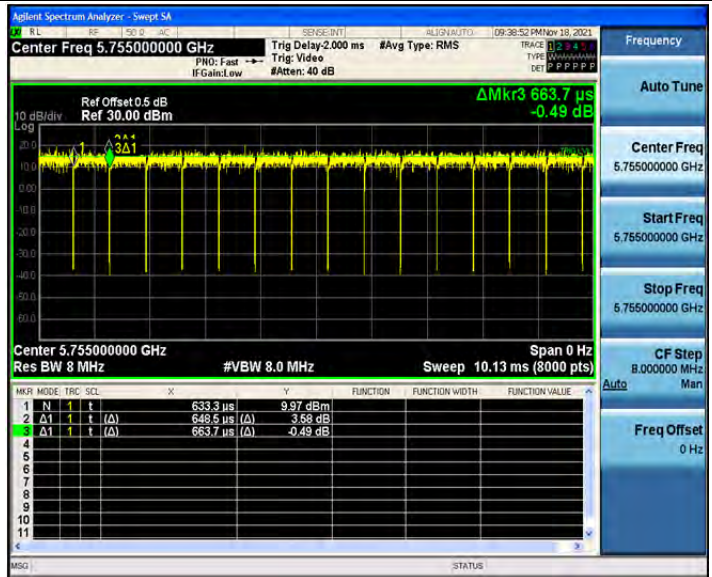
802.11ac(VHT40)_Ant2_5230



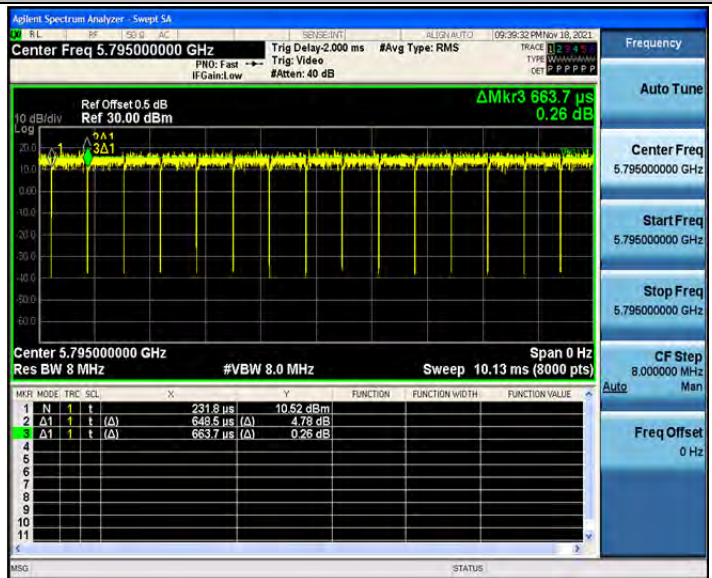
802.11ac(VHT40)_Ant1_5755



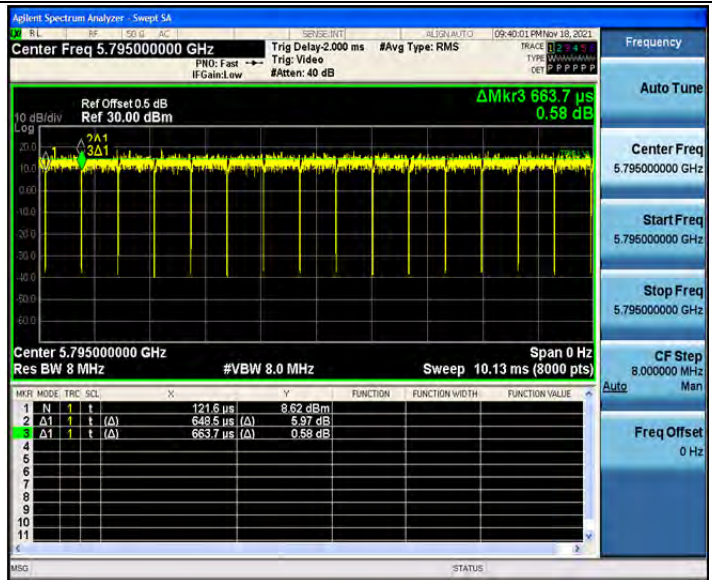
802.11ac(VHT40)_Ant2_5755



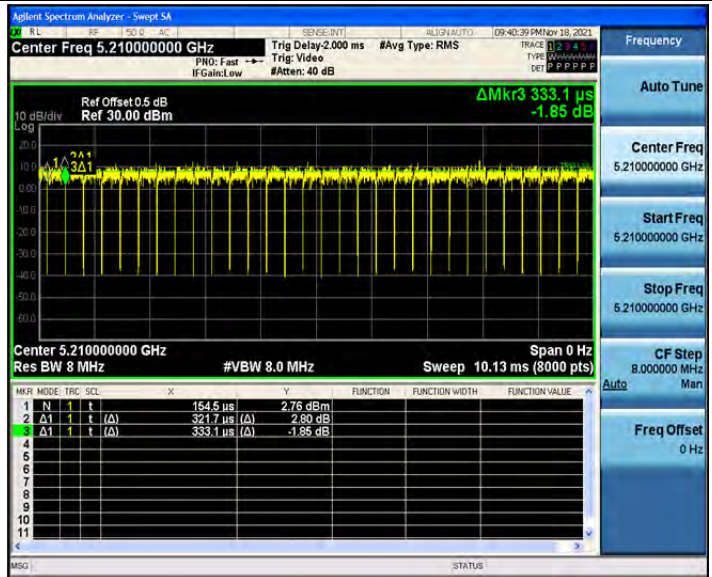
802.11ac(VHT40)_Ant1_5795



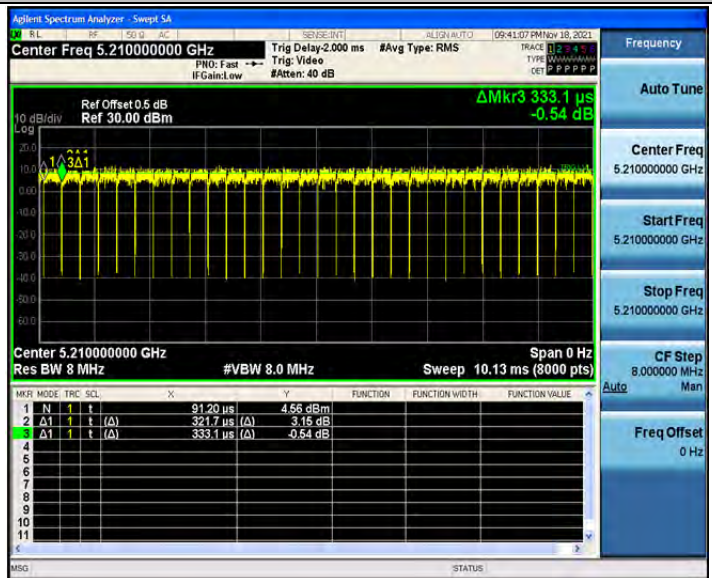
802.11ac(VHT40)_Ant2_5795



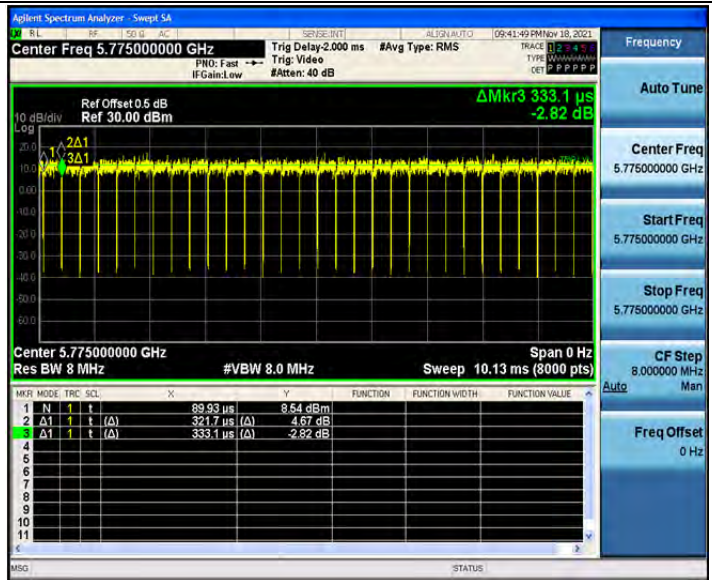
802.11ac(VHT80)_Ant1_5210



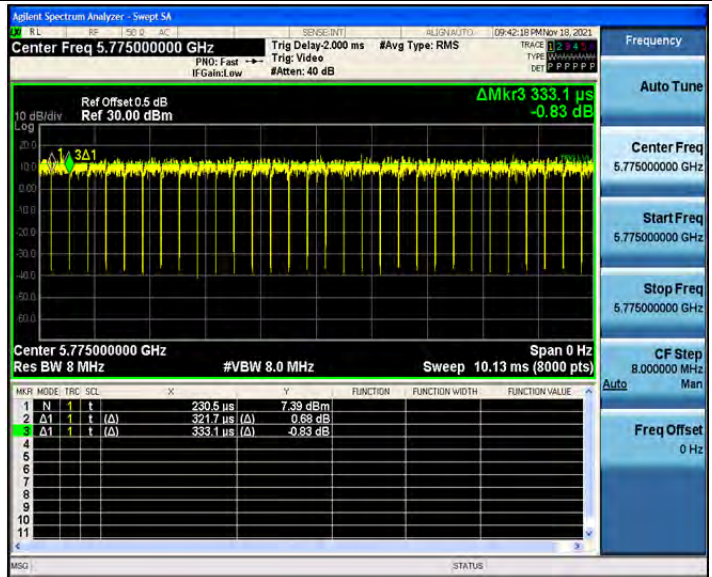
802.11ac(VHT80)_Ant2_5210



802.11ac(VHT80)_Ant1_5775



802.11ac(VHT80)_Ant2_5775



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