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## **Appendix for 5GHz WIFI**

**Applicant: Videostrong Technology Co.,Ltd**

**Address: 604, Lushi industrial Building, 28 District, Bao'an  
District, Shenzhen, China**

**Product Name: Android TV Box**

**Model: KA2, KA1, KA1 PRO, KA2 PRO, KA3, KA3 PRO, KA5, KA5  
PRO, KA6, OC-STB-01, OC-STB-02, OC-STB-03**

**FCC ID: 2AGKB-KA1235**

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## Appendix A1: Emission Bandwidth

### Test Result

| Test Mode       | Antenna | Freq[MHz] | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  | Verdict |
|-----------------|---------|-----------|----------------|----------|----------|---------|
| 802.11a         | Ant1    | 5180      | 18.480         | 5170.680 | 5189.160 | PASS    |
|                 | Ant2    | 5180      | 18.520         | 5170.760 | 5189.280 | PASS    |
|                 | Ant1    | 5200      | 24.560         | 5188.240 | 5212.800 | PASS    |
|                 | Ant2    | 5200      | 18.440         | 5190.760 | 5209.200 | PASS    |
|                 | Ant1    | 5240      | 23.960         | 5228.640 | 5252.600 | PASS    |
|                 | Ant2    | 5240      | 18.560         | 5230.760 | 5249.320 | PASS    |
|                 | Ant1    | 5745      | 18.400         | 5735.840 | 5754.240 | PASS    |
|                 | Ant2    | 5745      | 18.520         | 5735.800 | 5754.320 | PASS    |
|                 | Ant1    | 5785      | 18.920         | 5775.760 | 5794.680 | PASS    |
|                 | Ant2    | 5785      | 18.440         | 5775.760 | 5794.200 | PASS    |
|                 | Ant1    | 5825      | 18.360         | 5815.800 | 5834.160 | PASS    |
|                 | Ant2    | 5825      | 18.760         | 5815.720 | 5834.480 | PASS    |
| 802.11n(HT20)   | Ant1    | 5180      | 19.320         | 5170.320 | 5189.640 | PASS    |
|                 | Ant2    | 5180      | 19.440         | 5170.360 | 5189.800 | PASS    |
|                 | Ant1    | 5200      | 19.480         | 5190.200 | 5209.680 | PASS    |
|                 | Ant2    | 5200      | 19.600         | 5190.200 | 5209.800 | PASS    |
|                 | Ant1    | 5240      | 19.280         | 5230.320 | 5249.600 | PASS    |
|                 | Ant2    | 5240      | 19.600         | 5230.240 | 5249.840 | PASS    |
|                 | Ant1    | 5745      | 19.360         | 5735.240 | 5754.600 | PASS    |
|                 | Ant2    | 5745      | 19.440         | 5735.360 | 5754.800 | PASS    |
|                 | Ant1    | 5785      | 19.560         | 5775.160 | 5794.720 | PASS    |
|                 | Ant2    | 5785      | 19.280         | 5775.400 | 5794.680 | PASS    |
|                 | Ant1    | 5825      | 19.360         | 5815.320 | 5834.680 | PASS    |
|                 | Ant2    | 5825      | 19.360         | 5815.280 | 5834.640 | PASS    |
| 802.11n(HT40)   | Ant1    | 5190      | 41.680         | 5169.360 | 5211.040 | PASS    |
|                 | Ant2    | 5190      | 40.800         | 5169.360 | 5210.160 | PASS    |
|                 | Ant1    | 5230      | 41.360         | 5209.680 | 5251.040 | PASS    |
|                 | Ant2    | 5230      | 41.200         | 5209.200 | 5250.400 | PASS    |
|                 | Ant1    | 5755      | 41.280         | 5734.360 | 5775.640 | PASS    |
|                 | Ant2    | 5755      | 41.200         | 5734.520 | 5775.720 | PASS    |
|                 | Ant1    | 5795      | 41.520         | 5774.280 | 5815.800 | PASS    |
|                 | Ant2    | 5795      | 41.520         | 5774.200 | 5815.720 | PASS    |
| 802.11ac(VHT20) | Ant1    | 5180      | 19.520         | 5170.240 | 5189.760 | PASS    |
|                 | Ant2    | 5180      | 19.520         | 5170.240 | 5189.760 | PASS    |
|                 | Ant1    | 5200      | 19.480         | 5190.240 | 5209.720 | PASS    |
|                 | Ant2    | 5200      | 19.320         | 5190.320 | 5209.640 | PASS    |
|                 | Ant1    | 5240      | 19.400         | 5230.320 | 5249.720 | PASS    |
|                 | Ant2    | 5240      | 19.480         | 5230.240 | 5249.720 | PASS    |
|                 | Ant1    | 5745      | 19.480         | 5735.360 | 5754.840 | PASS    |
|                 | Ant2    | 5745      | 19.280         | 5735.320 | 5754.600 | PASS    |
|                 | Ant1    | 5785      | 19.360         | 5775.280 | 5794.640 | PASS    |

|                 |      |      |        |          |          |      |
|-----------------|------|------|--------|----------|----------|------|
|                 | Ant2 | 5785 | 19.280 | 5775.400 | 5794.680 | PASS |
|                 | Ant1 | 5825 | 19.320 | 5815.280 | 5834.600 | PASS |
|                 | Ant2 | 5825 | 19.400 | 5815.280 | 5834.680 | PASS |
| 802.11ac(VHT40) | Ant1 | 5190 | 40.800 | 5169.520 | 5210.320 | PASS |
|                 | Ant2 | 5190 | 40.720 | 5169.680 | 5210.400 | PASS |
|                 | Ant1 | 5230 | 40.640 | 5209.280 | 5249.920 | PASS |
|                 | Ant2 | 5230 | 40.800 | 5209.360 | 5250.160 | PASS |
|                 | Ant1 | 5755 | 40.800 | 5734.360 | 5775.160 | PASS |
|                 | Ant2 | 5755 | 40.480 | 5734.840 | 5775.320 | PASS |
|                 | Ant1 | 5795 | 41.040 | 5774.040 | 5815.080 | PASS |
|                 | Ant2 | 5795 | 40.640 | 5774.520 | 5815.160 | PASS |
| 802.11ac(VHT80) | Ant1 | 5210 | 80.960 | 5169.680 | 5250.640 | PASS |
|                 | Ant2 | 5210 | 80.480 | 5169.840 | 5250.320 | PASS |
|                 | Ant1 | 5775 | 80.800 | 5734.360 | 5815.160 | PASS |
|                 | Ant2 | 5775 | 80.640 | 5734.520 | 5815.160 | PASS |

## 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



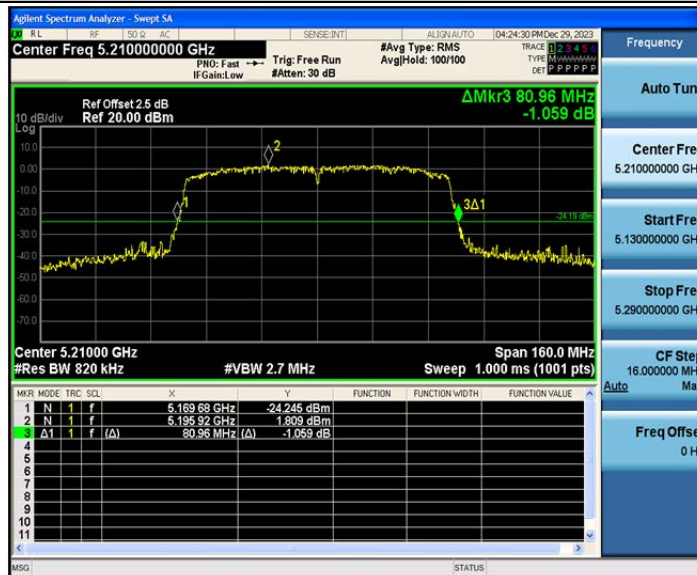
802.11ac(VHT40)\_Ant1\_5795



802.11ac(VHT40)\_Ant2\_5795



802.11ac(VHT80)\_Ant1\_5210



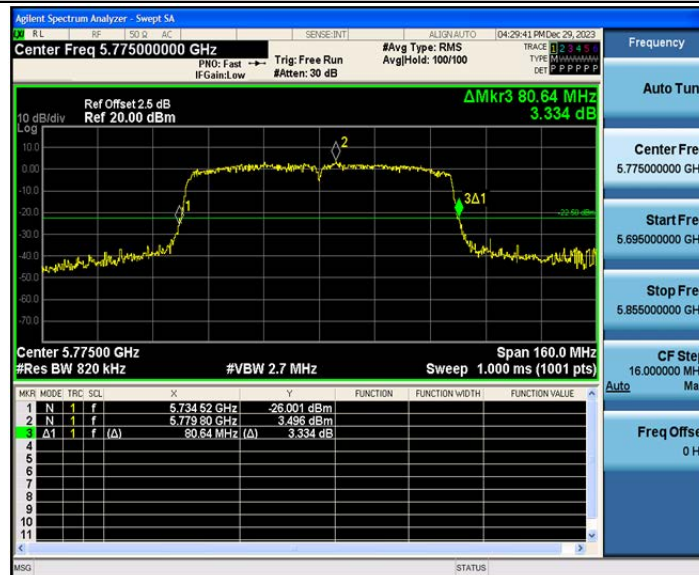
802.11ac(VHT80)\_Ant2\_5210



802.11ac(VHT80)\_Ant1\_5775



802.11ac(VHT80)\_Ant2\_5775



## Appendix A2: Occupied channel bandwidth

### Test Result

| Test Mode       | Antenna | Freq[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Verdict |
|-----------------|---------|-----------|-----------|-----------|-----------|---------|
| 802.11a         | Ant1    | 5180      | 16.531    | 5171.7360 | 5188.2670 | PASS    |
|                 | Ant2    | 5180      | 16.482    | 5171.7495 | 5188.2315 | PASS    |
|                 | Ant1    | 5200      | 16.686    | 5191.6892 | 5208.3752 | PASS    |
|                 | Ant2    | 5200      | 16.479    | 5191.7496 | 5208.2286 | PASS    |
|                 | Ant1    | 5240      | 16.649    | 5231.6870 | 5248.3360 | PASS    |
|                 | Ant2    | 5240      | 16.489    | 5231.7528 | 5248.2418 | PASS    |
|                 | Ant1    | 5745      | 16.513    | 5736.7413 | 5753.2543 | PASS    |
|                 | Ant2    | 5745      | 16.494    | 5736.7402 | 5753.2342 | PASS    |
|                 | Ant1    | 5785      | 16.524    | 5776.7139 | 5793.2379 | PASS    |
|                 | Ant2    | 5785      | 16.528    | 5776.7305 | 5793.2585 | PASS    |
|                 | Ant1    | 5825      | 16.509    | 5816.7513 | 5833.2603 | PASS    |
|                 | Ant2    | 5825      | 16.568    | 5816.7183 | 5833.2863 | PASS    |
| 802.11n(HT20)   | Ant1    | 5180      | 17.628    | 5171.1795 | 5188.8075 | PASS    |
|                 | Ant2    | 5180      | 17.633    | 5171.1726 | 5188.8056 | PASS    |
|                 | Ant1    | 5200      | 17.641    | 5191.1675 | 5208.8085 | PASS    |
|                 | Ant2    | 5200      | 17.634    | 5191.1653 | 5208.7993 | PASS    |
|                 | Ant1    | 5240      | 17.642    | 5231.1728 | 5248.8148 | PASS    |
|                 | Ant2    | 5240      | 17.624    | 5231.1868 | 5248.8108 | PASS    |
|                 | Ant1    | 5745      | 17.643    | 5736.1577 | 5753.8007 | PASS    |
|                 | Ant2    | 5745      | 17.625    | 5736.1769 | 5753.8019 | PASS    |
|                 | Ant1    | 5785      | 17.623    | 5776.1538 | 5793.7768 | PASS    |
|                 | Ant2    | 5785      | 17.625    | 5776.1712 | 5793.7962 | PASS    |
|                 | Ant1    | 5825      | 17.633    | 5816.1795 | 5833.8125 | PASS    |
|                 | Ant2    | 5825      | 17.615    | 5816.1864 | 5833.8014 | PASS    |
| 802.11n(HT40)   | Ant1    | 5190      | 36.604    | 5171.7129 | 5208.3169 | PASS    |
|                 | Ant2    | 5190      | 36.470    | 5171.7338 | 5208.2038 | PASS    |
|                 | Ant1    | 5230      | 36.441    | 5211.7136 | 5248.1546 | PASS    |
|                 | Ant2    | 5230      | 36.444    | 5211.7371 | 5248.1811 | PASS    |
|                 | Ant1    | 5755      | 36.407    | 5736.7039 | 5773.1109 | PASS    |
|                 | Ant2    | 5755      | 36.518    | 5736.7497 | 5773.2677 | PASS    |
|                 | Ant1    | 5795      | 36.483    | 5776.6716 | 5813.1546 | PASS    |
|                 | Ant2    | 5795      | 36.544    | 5776.7059 | 5813.2499 | PASS    |
| 802.11ac(VHT20) | Ant1    | 5180      | 17.621    | 5171.1807 | 5188.8017 | PASS    |
|                 | Ant2    | 5180      | 17.617    | 5171.1718 | 5188.7888 | PASS    |
|                 | Ant1    | 5200      | 17.636    | 5191.1708 | 5208.8068 | PASS    |
|                 | Ant2    | 5200      | 17.623    | 5191.1649 | 5208.7879 | PASS    |
|                 | Ant1    | 5240      | 17.621    | 5231.1770 | 5248.7980 | PASS    |
|                 | Ant2    | 5240      | 17.615    | 5231.1806 | 5248.7956 | PASS    |
|                 | Ant1    | 5745      | 17.615    | 5736.1672 | 5753.7822 | PASS    |
|                 | Ant2    | 5745      | 17.617    | 5736.1761 | 5753.7931 | PASS    |
|                 | Ant1    | 5785      | 17.634    | 5776.1450 | 5793.7790 | PASS    |

|                 |      |      |        |           |           |      |
|-----------------|------|------|--------|-----------|-----------|------|
|                 | Ant2 | 5785 | 17.621 | 5776.1765 | 5793.7975 | PASS |
|                 | Ant1 | 5825 | 17.633 | 5816.1845 | 5833.8175 | PASS |
|                 | Ant2 | 5825 | 17.618 | 5816.1828 | 5833.8008 | PASS |
| 802.11ac(VHT40) | Ant1 | 5190 | 36.300 | 5171.8898 | 5208.1898 | PASS |
|                 | Ant2 | 5190 | 36.268 | 5171.8370 | 5208.1050 | PASS |
|                 | Ant1 | 5230 | 36.382 | 5211.8158 | 5248.1978 | PASS |
|                 | Ant2 | 5230 | 36.361 | 5211.8086 | 5248.1696 | PASS |
|                 | Ant1 | 5755 | 36.352 | 5736.7751 | 5773.1271 | PASS |
|                 | Ant2 | 5755 | 36.263 | 5736.8485 | 5773.1115 | PASS |
|                 | Ant1 | 5795 | 36.440 | 5776.7175 | 5813.1575 | PASS |
|                 | Ant2 | 5795 | 36.330 | 5776.8438 | 5813.1738 | PASS |
| 802.11ac(VHT80) | Ant1 | 5210 | 74.600 | 5172.8516 | 5247.4516 | PASS |
|                 | Ant2 | 5210 | 74.837 | 5172.5800 | 5247.4170 | PASS |
|                 | Ant1 | 5775 | 74.608 | 5737.5558 | 5812.1638 | PASS |
|                 | Ant2 | 5775 | 74.773 | 5737.7159 | 5812.4889 | PASS |

## Test Graphs

802.11a\_Ant1\_5180



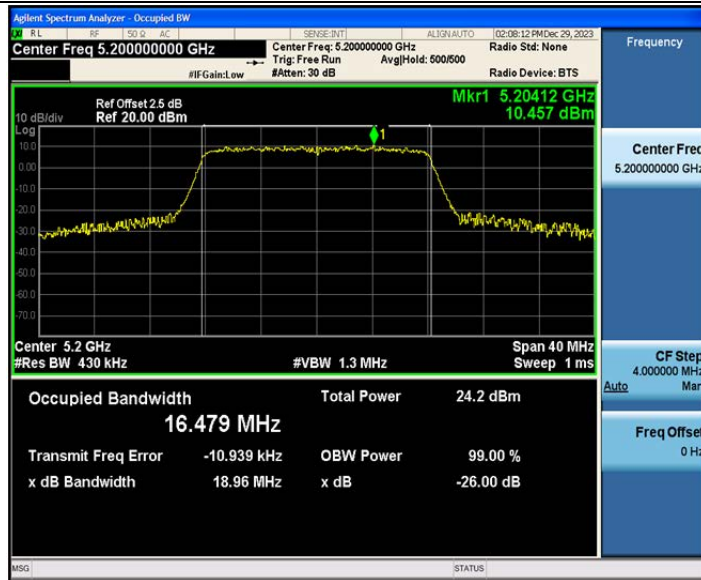
802.11a\_Ant2\_5180



802.11a\_Ant1\_5200



802.11a\_Ant2\_5200



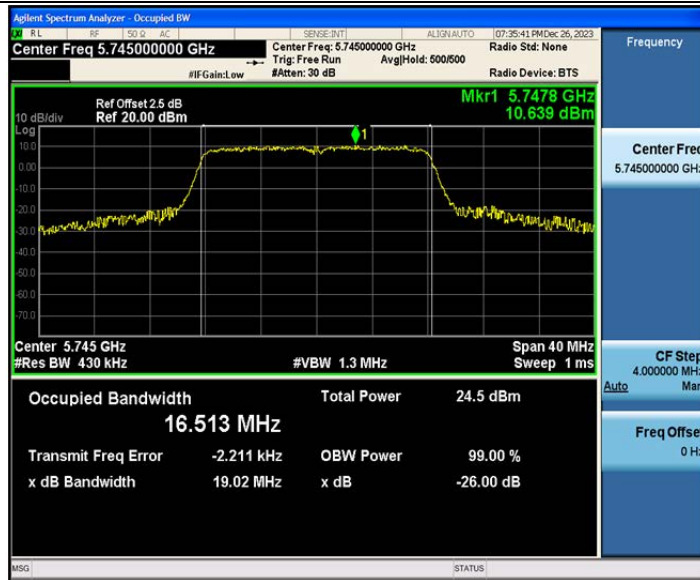
802.11a\_Ant1\_5240



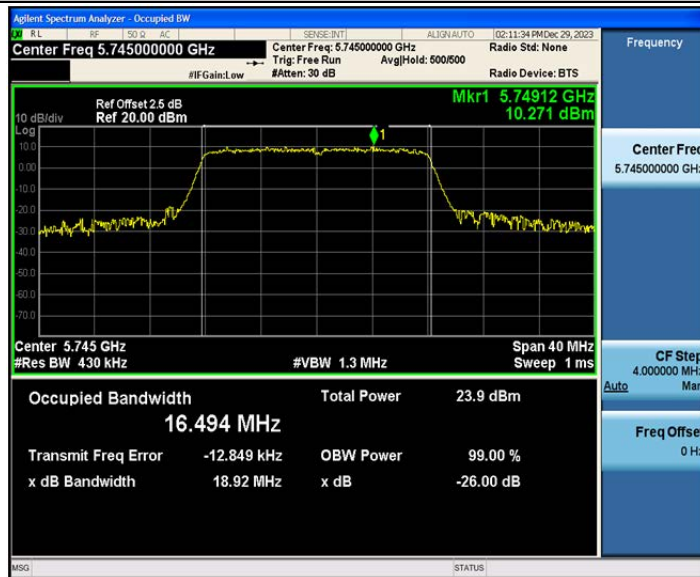
802.11a\_Ant2\_5240



802.11a\_Ant1\_5745



802.11a\_Ant2\_5745



802.11a\_Ant1\_5785



802.11a\_Ant2\_5785



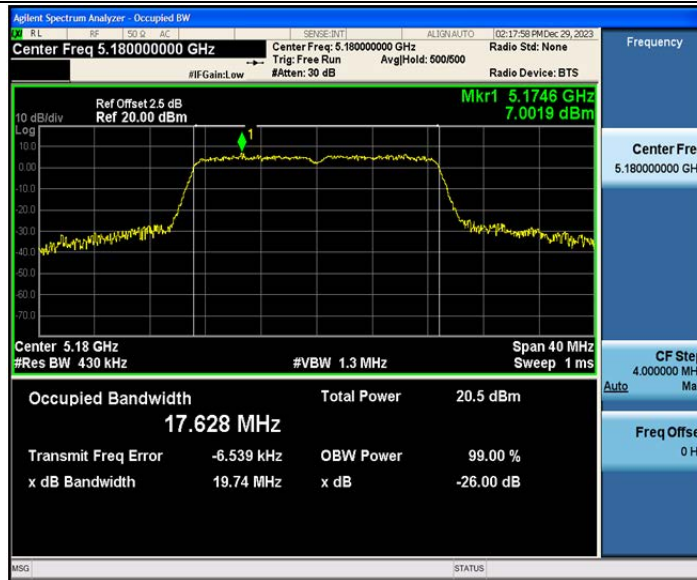
802.11a\_Ant1\_5825



802.11a\_Ant2\_5825



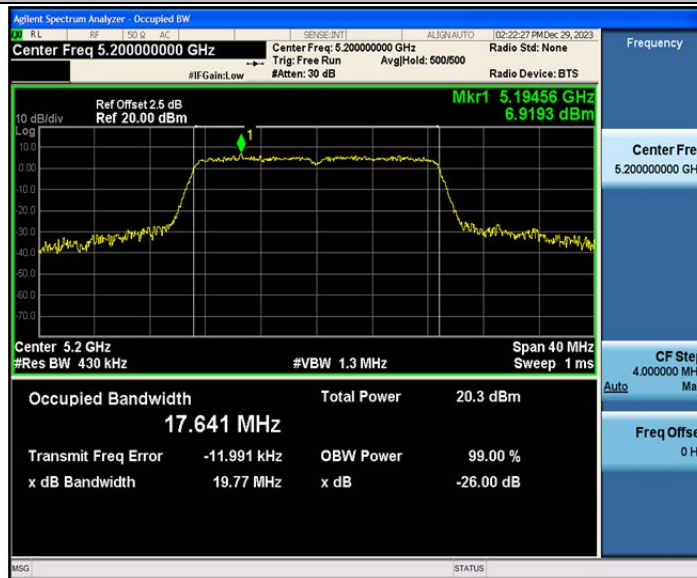
802.11n(HT20)\_Ant1\_5180



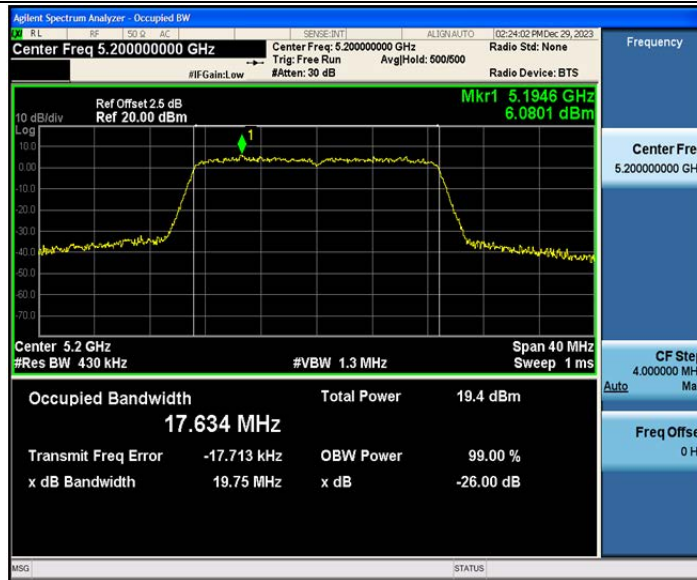
802.11n(HT20)\_Ant2\_5180



802.11n(HT20)\_Ant1\_5200



802.11n(HT20)\_Ant2\_5200



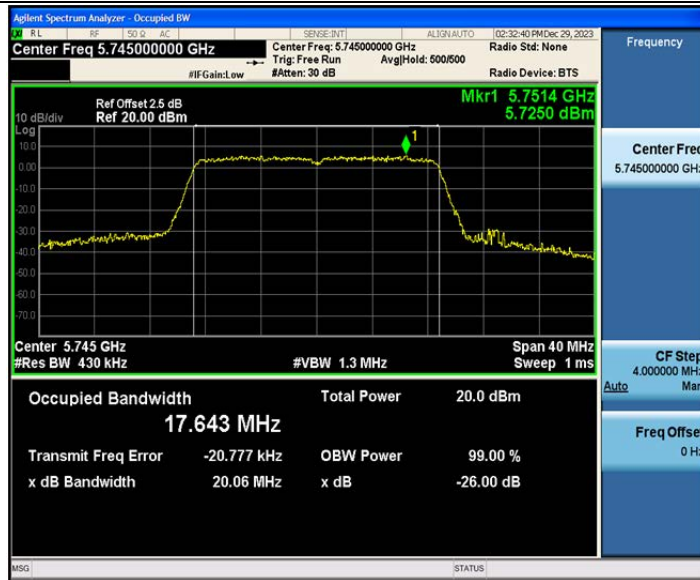
802.11n(HT20)\_Ant1\_5240



802.11n(HT20)\_Ant2\_5240



802.11n(HT20)\_Ant1\_5745



802.11n(HT20)\_Ant2\_5745



802.11n(HT20)\_Ant1\_5785



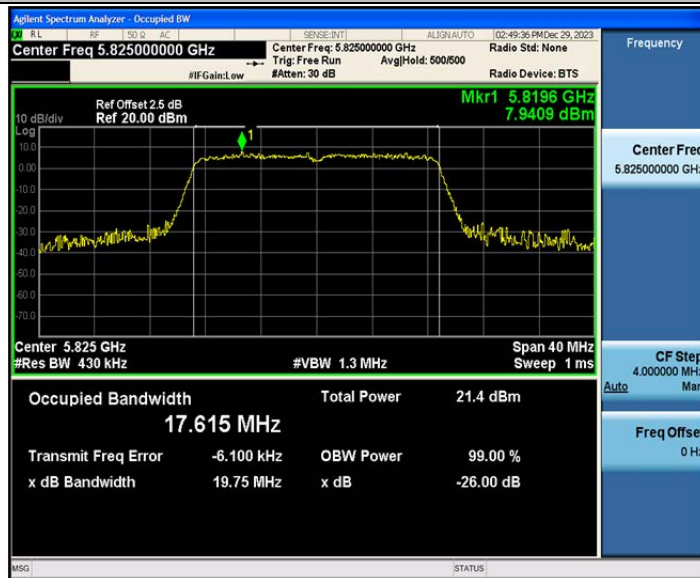
802.11n(HT20)\_Ant2\_5785



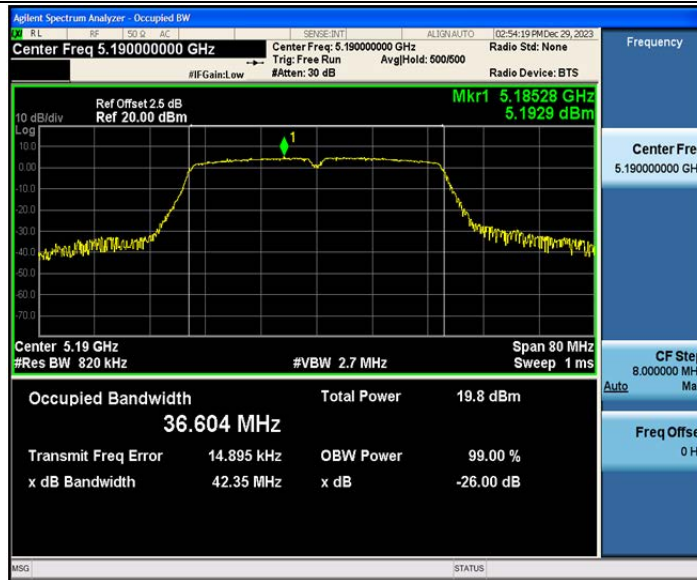
802.11n(HT20)\_Ant1\_5825



802.11n(HT20)\_Ant2\_5825



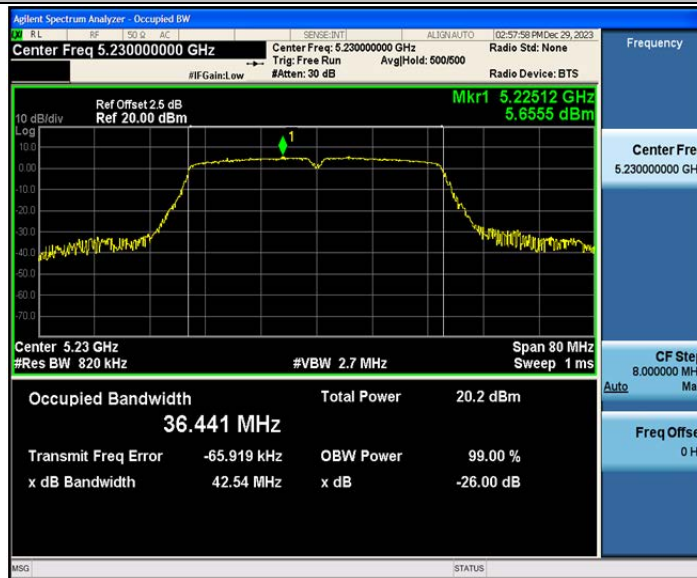
802.11n(HT40)\_Ant1\_5190



802.11n(HT40)\_Ant2\_5190



802.11n(HT40)\_Ant1\_5230



802.11n(HT40)\_Ant2\_5230