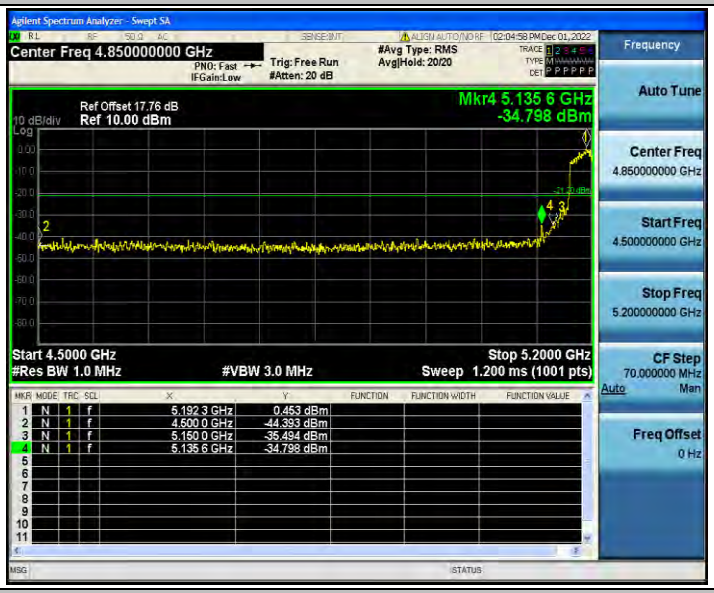
| 11AC40SISO_Ant2_Low_5190_Peak |
| --- |
|  |



| 11AC40SISO_Ant1_High_5230_AV |
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| 11AC40SISO_Ant1_High_5230_Peak |
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| 11AC40SISO_Ant2_High_5230_AV |
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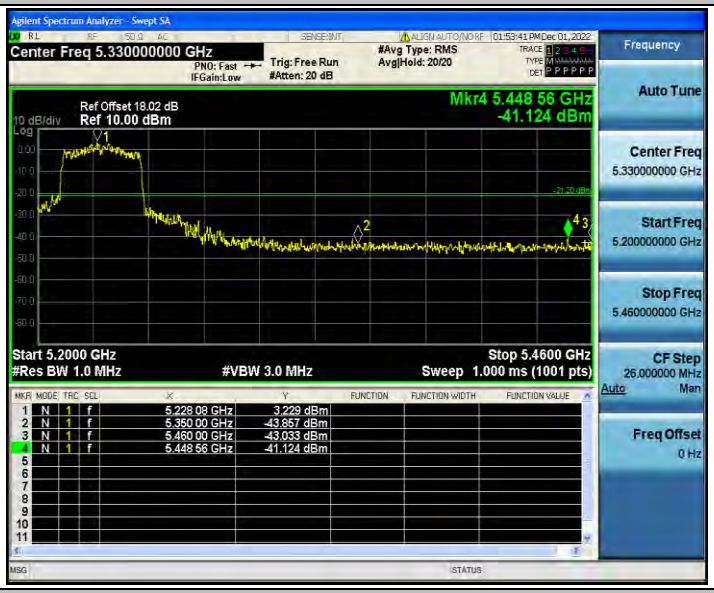
| 11AC40SISO_Ant2_High_5230_Peak |
| --- |
|  |
| 11AC40SISO_Ant1_Low_5755_Peak |
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| 11AC40SISO_Ant2_Low_5755_Peak |
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| 11AC40SISO_Ant1_High_5795_Peak |
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| 11AC40SISO_Ant2_High_5795_Peak |
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| 11AC80SISO_Ant1_Low_5210_AV |
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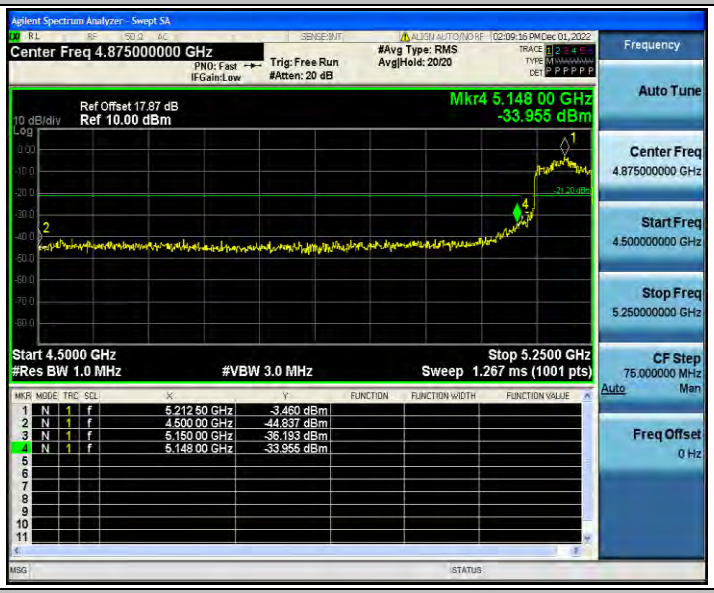
| 11AC80SISO_Ant1_Low_5210_Peak |
| --- |
|  |
| 11AC80SISO_Ant2_Low_5210_AV |
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| 11AC80SISO_Ant2_Low_5210_Peak |
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| 11AC80SISO_Ant1_High_5210_AV |
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| 11AC80SISO_Ant1_High_5210_Peak |
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| 11AC80SISO_Ant2_High_5210_AV |
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| 11AC80SISO_Ant2_High_5210_Peak |
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| 11AC80SISO_Ant1_Low_5775_Peak |
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| 11AC80SISO_Ant2_Low_5775_Peak |
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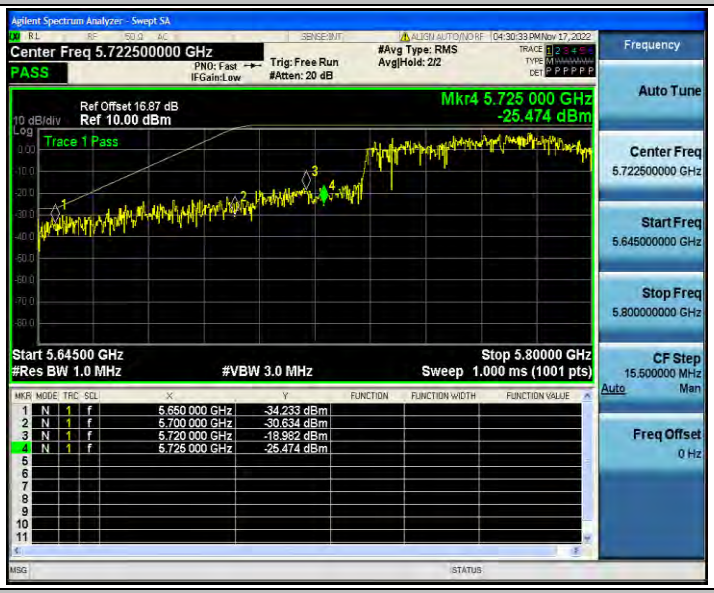
|  |



| 11AC80SISO_Ant1_High_5775_Peak |
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| 11AC80SISO_Ant2_High_5775_Peak |
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# 4.4 BANDWIDTH TEST

## 4.4.1 Applied procedures / Limit

The bandwidth at 26 dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum power control level, as defined in KDB 789033, at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26 dB bandwidth.
The 26 dB bandwidth is used to determine the conducted power limits.
There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

## 4.4.2 Test procedure

**26 dB BANDWID PROCEDURES**

a. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01

b. Set RBW = approximately 1% of the emission bandwidth.

c. Trace mode = max hold

d. Detector = Peak

e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%

**6 dB BANDWID PROCEDURES**

a. Set resolution bandwidth (RBW) = 100 kHz

b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.

c. Trace mode = max hold.

d. Sweep = auto couple.

e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

**99% BANDWID PROCEDURES**

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 • RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

### 4.4.3 Deviation from standard

No deviation.

### 4.4.4 Test setup

### 4.4.5 Test results

| TestMode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 20.920 | 5169.480 | 5190.400 | --- | --- |
| | Ant2 | 5180 | 20.800 | 5169.480 | 5190.280 | --- | --- |
| | Ant1 | 5220 | 20.920 | 5209.440 | 5230.360 | --- | --- |
| | Ant2 | 5220 | 21.440 | 5209.160 | 5230.600 | --- | --- |
| | Ant1 | 5240 | 21.600 | 5229.080 | 5250.680 | --- | --- |
| | Ant2 | 5240 | 26.240 | 5225.360 | 5251.600 | --- | --- |
| | Ant1 | 5745 | 21.400 | 5734.240 | 5755.640 | --- | --- |
| | Ant2 | 5745 | 24.800 | 5730.960 | 5755.760 | --- | --- |
| | Ant1 | 5785 | 21.280 | 5774.280 | 5795.560 | --- | --- |
| | Ant2 | 5785 | 21.320 | 5774.280 | 5795.600 | --- | --- |
| | Ant1 | 5825 | 21.040 | 5814.560 | 5835.600 | --- | --- |
| | Ant2 | 5825 | 21.320 | 5814.320 | 5835.640 | --- | --- |
| 11N20SISO | Ant1 | 5180 | 21.120 | 5169.400 | 5190.520 | --- | --- |
| | Ant2 | 5180 | 25.720 | 5165.240 | 5190.960 | --- | --- |
| | Ant1 | 5220 | 21.680 | 5209.000 | 5230.680 | --- | --- |
| | Ant2 | 5220 | 22.560 | 5208.080 | 5230.640 | --- | --- |
| | Ant1 | 5240 | 25.000 | 5226.160 | 5251.160 | --- | --- |
| | Ant2 | 5240 | 25.200 | 5225.400 | 5250.600 | --- | --- |
| | Ant1 | 5745 | 25.840 | 5730.200 | 5756.040 | --- | --- |
| | Ant2 | 5745 | 35.880 | 5725.160 | 5761.040 | --- | --- |
| | Ant1 | 5785 | 24.480 | 5771.560 | 5796.040 | --- | --- |
| | Ant2 | 5785 | 31.000 | 5768.440 | 5799.440 | --- | --- |
| | Ant1 | 5825 | 21.680 | 5814.240 | 5835.920 | --- | --- |
| | Ant2 | 5825 | 31.320 | 5809.560 | 5840.880 | --- | --- |
| 11N40SISO | Ant1 | 5190 | 39.600 | 5170.160 | 5209.760 | --- | --- |
| | Ant2 | 5190 | 42.800 | 5166.880 | 5209.680 | --- | --- |
| | Ant1 | 5230 | 49.120 | 5200.800 | 5249.920 | --- | --- |
| | Ant2 | 5230 | 40.960 | 5208.560 | 5249.520 | --- | --- |
| | Ant1 | 5755 | 65.360 | 5717.320 | 5782.680 | --- | --- |
| | Ant2 | 5755 | 66.240 | 5717.320 | 5783.560 | --- | --- |
| | Ant1 | 5795 | 58.480 | 5762.040 | 5820.520 | --- | --- |
| | Ant2 | 5795 | 61.120 | 5763.320 | 5824.440 | --- | --- |
| 11AC20SISO | Ant1 | 5180 | 21.360 | 5169.280 | 5190.640 | --- | --- |
| | Ant2 | 5180 | 22.560 | 5168.040 | 5190.600 | --- | --- |
| | Ant1 | 5220 | 21.680 | 5209.000 | 5230.680 | --- | --- |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant2 | 5220 | 23.600 | 5206.920 | 5230.520 | --- | --- |
| | Ant1 | 5240 | 25.760 | 5225.160 | 5250.920 | --- | --- |
| | Ant2 | 5240 | 21.920 | 5228.960 | 5250.880 | --- | --- |
| | Ant1 | 5745 | 28.760 | 5727.480 | 5756.240 | --- | --- |
| | Ant2 | 5745 | 33.080 | 5726.320 | 5759.400 | --- | --- |
| | Ant1 | 5785 | 24.240 | 5772.720 | 5796.960 | --- | --- |
| | Ant2 | 5785 | 28.800 | 5770.120 | 5798.920 | --- | --- |
| | Ant1 | 5825 | 22.600 | 5814.200 | 5836.800 | --- | --- |
| | Ant2 | 5825 | 29.240 | 5809.800 | 5839.040 | --- | --- |
| 11AC40SISO | Ant1 | 5190 | 39.520 | 5170.240 | 5209.760 | --- | --- |
| | Ant2 | 5190 | 40.000 | 5169.520 | 5209.520 | --- | --- |
| | Ant1 | 5230 | 45.840 | 5204.000 | 5249.840 | --- | --- |
| | Ant2 | 5230 | 39.360 | 5210.000 | 5249.360 | --- | --- |
| | Ant1 | 5755 | 66.080 | 5716.680 | 5782.760 | --- | --- |
| | Ant2 | 5755 | 62.560 | 5717.320 | 5779.880 | --- | --- |
| | Ant1 | 5795 | 49.520 | 5768.520 | 5818.040 | --- | --- |
| | Ant2 | 5795 | 69.680 | 5757.320 | 5827.000 | --- | --- |
| 11AC80SISO | Ant1 | 5210 | 81.600 | 5168.880 | 5250.480 | --- | --- |
| | Ant2 | 5210 | 94.080 | 5157.040 | 5251.120 | --- | --- |
| | Ant1 | 5775 | 118.560 | 5711.160 | 5829.720 | --- | --- |
| | Ant2 | 5775 | 125.280 | 5705.720 | 5831.000 | --- | --- |

| 11A_Ant1_5180 |
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| 11A_Ant2_5180 |
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| 11A_Ant1_5220 |
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| 11A_Ant2_5220 |
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| 11A_Ant1_5240 |
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| 11A_Ant2_5240 |
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| 11A_Ant1_5745 |
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| 11A_Ant2_5745 |
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| 11A_Ant1_5785 |
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| 11A_Ant2_5785 |
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| 11A_Ant1_5825 |
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| 11A_Ant2_5825 |
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| 11N20SISO_Ant1_5180 |
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| 11N20SISO_Ant2_5180 |
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| 11N20SISO_Ant1_5220 |
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| 11N20SISO_Ant2_5220 |
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| 11N20SISO_Ant1_5240 |
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| 11N20SISO_Ant2_5240 |
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| 11N20SISO_Ant1_5745 |
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| 11N20SISO_Ant2_5745 |
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| 11N20SISO_Ant1_5785 |
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| 11N20SISO_Ant2_5785 |
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| 11N20SISO_Ant1_5825 |
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| 11N20SISO_Ant2_5825 |
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| 11N40SISO_Ant1_5190 |
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| 11N40SISO_Ant2_5190 |
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| 11N40SISO_Ant1_5230 |
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| 11N40SISO_Ant2_5230 |
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| 11N40SISO_Ant1_5755 |
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| 11N40SISO_Ant2_5755 |
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| 11N40SISO_Ant1_5795 |
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| 11N40SISO_Ant2_5795 |
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| 11AC20SISO_Ant1_5180 |
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| 11AC20SISO_Ant2_5180 |
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| 11AC20SISO_Ant1_5220 |
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| 11AC20SISO_Ant2_5220 |
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| 11AC20SISO_Ant1_5240 |
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| 11AC20SISO_Ant2_5240 |
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| 11AC20SISO_Ant1_5745 |
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| 11AC20SISO_Ant2_5745 |
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| 11AC20SISO_Ant1_5785 |
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| 11AC20SISO_Ant2_5785 |
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| 11AC20SISO_Ant1_5825 |
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| 11AC20SISO_Ant2_5825 |
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| 11AC40SISO_Ant1_5190 |
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| 11AC40SISO_Ant2_5190 |
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| 11AC40SISO_Ant1_5230 |
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| 11AC40SISO_Ant2_5230 |
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| 11AC40SISO_Ant1_5755 |
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| 11AC40SISO_Ant2_5755 |
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| 11AC40SISO_Ant1_5795 |
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| 11AC40SISO_Ant2_5795 |
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| 11AC80SISO_Ant1_5210 |
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| 11AC80SISO_Ant2_5210 |
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| 11AC80SISO_Ant1_5775 |
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| 11AC80SISO_Ant2_5775 |
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Occupied channel bandwidth

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 17.199 | 5171.3632 | 5188.5622 | --- | --- |
| | Ant2 | 5180 | 17.210 | 5171.3580 | 5188.5680 | --- | --- |
| | Ant1 | 5220 | 17.170 | 5211.3706 | 5228.5406 | --- | --- |
| | Ant2 | 5220 | 17.395 | 5211.1632 | 5228.5582 | --- | --- |
| | Ant1 | 5240 | 17.366 | 5231.1611 | 5248.5271 | --- | --- |
| | Ant2 | 5240 | 18.644 | 5230.2024 | 5248.8464 | --- | --- |
| | Ant1 | 5745 | 17.551 | 5736.0866 | 5753.6376 | --- | --- |
| | Ant2 | 5745 | 18.368 | 5735.4616 | 5753.8296 | --- | --- |
| | Ant1 | 5785 | 17.629 | 5776.1191 | 5793.7481 | --- | --- |
| | Ant2 | 5785 | 17.581 | 5776.1780 | 5793.7590 | --- | --- |
| | Ant1 | 5825 | 17.346 | 5816.3319 | 5833.6779 | --- | --- |
| | Ant2 | 5825 | 17.534 | 5816.2566 | 5833.7906 | --- | --- |
| 11N20SISO | Ant1 | 5180 | 18.301 | 5170.8162 | 5189.1172 | --- | --- |
| | Ant2 | 5180 | 18.218 | 5170.7851 | 5189.0031 | --- | --- |
| | Ant1 | 5220 | 18.385 | 5210.7386 | 5229.1236 | --- | --- |
| | Ant2 | 5220 | 17.998 | 5210.9071 | 5228.9051 | --- | --- |
| | Ant1 | 5240 | 18.796 | 5230.3785 | 5249.1745 | --- | --- |
| | Ant2 | 5240 | 18.163 | 5230.7651 | 5248.9281 | --- | --- |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant1 | 5745 | 18.918 | 5735.3051 | 5754.2231 | --- | --- |
| | Ant2 | 5745 | 19.109 | 5735.0687 | 5754.1777 | --- | --- |
| | Ant1 | 5785 | 18.615 | 5775.6209 | 5794.2359 | --- | --- |
| | Ant2 | 5785 | 18.377 | 5775.7454 | 5794.1224 | --- | --- |
| | Ant1 | 5825 | 18.449 | 5815.8046 | 5834.2536 | --- | --- |
| | Ant2 | 5825 | 18.545 | 5815.7050 | 5834.2500 | --- | --- |
| 11N40SISO | Ant1 | 5190 | 36.445 | 5171.7126 | 5208.1576 | --- | --- |
| | Ant2 | 5190 | 36.513 | 5171.6525 | 5208.1655 | --- | --- |
| | Ant1 | 5230 | 36.704 | 5211.5613 | 5248.2653 | --- | --- |
| | Ant2 | 5230 | 36.443 | 5211.6639 | 5248.1069 | --- | --- |
| | Ant1 | 5755 | 38.490 | 5735.0168 | 5773.5068 | --- | --- |
| | Ant2 | 5755 | 37.148 | 5736.3490 | 5773.4970 | --- | --- |
| | Ant1 | 5795 | 36.890 | 5776.4699 | 5813.3599 | --- | --- |
| | Ant2 | 5795 | 36.950 | 5776.4760 | 5813.4260 | --- | --- |
| 11AC20SISO | Ant1 | 5180 | 18.255 | 5170.8134 | 5189.0684 | --- | --- |
| | Ant2 | 5180 | 18.003 | 5170.9260 | 5188.9290 | --- | --- |
| | Ant1 | 5220 | 18.368 | 5210.7595 | 5229.1275 | --- | --- |
| | Ant2 | 5220 | 18.099 | 5210.8476 | 5228.9466 | --- | --- |
| | Ant1 | 5240 | 18.900 | 5230.2675 | 5249.1675 | --- | --- |
| | Ant2 | 5240 | 18.050 | 5230.8648 | 5248.9148 | --- | --- |
| | Ant1 | 5745 | 19.203 | 5735.0494 | 5754.2524 | --- | --- |
| | Ant2 | 5745 | 18.690 | 5735.4473 | 5754.1373 | --- | --- |
| | Ant1 | 5785 | 18.553 | 5775.6187 | 5794.1717 | --- | --- |
| | Ant2 | 5785 | 18.331 | 5775.7427 | 5794.0737 | --- | --- |
| | Ant1 | 5825 | 18.438 | 5815.7568 | 5834.1948 | --- | --- |
| | Ant2 | 5825 | 18.392 | 5815.7870 | 5834.1790 | --- | --- |
| 11AC40SISO | Ant1 | 5190 | 36.514 | 5171.7431 | 5208.2571 | --- | --- |
| | Ant2 | 5190 | 36.579 | 5171.6654 | 5208.2444 | --- | --- |
| | Ant1 | 5230 | 36.746 | 5211.4458 | 5248.1918 | --- | --- |
| | Ant2 | 5230 | 36.532 | 5211.6147 | 5248.1467 | --- | --- |
| | Ant1 | 5755 | 39.464 | 5734.0313 | 5773.4953 | --- | --- |
| | Ant2 | 5755 | 37.313 | 5736.1892 | 5773.5022 | --- | --- |
| | Ant1 | 5795 | 36.884 | 5776.4946 | 5813.3786 | --- | --- |
| | Ant2 | 5795 | 36.996 | 5776.4203 | 5813.4163 | --- | --- |
| 11AC80SISO | Ant1 | 5210 | 75.510 | 5172.2137 | 5247.7237 | --- | --- |
| | Ant2 | 5210 | 75.554 | 5172.1145 | 5247.6685 | --- | --- |
| | Ant1 | 5775 | 76.316 | 5736.7065 | 5813.0225 | --- | --- |

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|---|---|---|---|---|---|---|---|
| | Ant2 | 5775 | 76.262 | 5736.7756 | 5813.0376 | --- | --- |

| 11A_Ant1_5180 |
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| 11A_Ant2_5180 |
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| 11A_Ant1_5220 |
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| 11A_Ant2_5220 |
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| 11A_Ant1_5240 |
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| 11A_Ant2_5240 |
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| 11A_Ant1_5745 |
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| 11A_Ant2_5745 |
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| 11A_Ant1_5785 |
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| 11A_Ant2_5785 |
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| 11A_Ant1_5825 |
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| 11A_Ant2_5825 |
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| 11N20SISO_Ant1_5180 |
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| 11N20SISO_Ant2_5180 |
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| 11N20SISO_Ant1_5220 |
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| 11N20SISO_Ant2_5220 |
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| 11N20SISO_Ant1_5240 |
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| 11N20SISO_Ant2_5240 |
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| 11N20SISO_Ant1_5745 |
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| 11N20SISO_Ant2_5745 |
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| 11N20SISO_Ant1_5785 |
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| 11N20SISO_Ant2_5785 |
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| 11N20SISO_Ant1_5825 |
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| 11N20SISO_Ant2_5825 |
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| 11N40SISO_Ant1_5190 |
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| 11N40SISO_Ant2_5190 |
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| 11N40SISO_Ant1_5230 |
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| 11N40SISO_Ant2_5230 |
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| 11N40SISO_Ant1_5755 |
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| 11N40SISO_Ant2_5755 |
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| 11N40SISO_Ant1_5795 |
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| 11N40SISO_Ant2_5795 |
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| 11AC20SISO_Ant1_5180 |
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| 11AC20SISO_Ant2_5180 |
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| 11AC20SISO_Ant1_5220 |
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| 11AC20SISO_Ant2_5220 |
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| 11AC20SISO_Ant1_5240 |
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| 11AC20SISO_Ant2_5240 |
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| 11AC20SISO_Ant1_5745 |
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| 11AC20SISO_Ant2_5745 |
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| 11AC20SISO_Ant1_5785 |
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| 11AC20SISO_Ant2_5785 |
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| 11AC20SISO_Ant1_5825 |
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| 11AC20SISO_Ant2_5825 |
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| 11AC40SISO_Ant1_5190 |
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| 11AC40SISO_Ant2_5190 |
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| 11AC40SISO_Ant1_5230 |
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| 11AC40SISO_Ant2_5230 |
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| 11AC40SISO_Ant1_5755 |
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| 11AC40SISO_Ant2_5755 |
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| 11AC40SISO_Ant1_5795 |
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| 11AC40SISO_Ant2_5795 |
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| 11AC80SISO_Ant1_5210 |
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| 11AC80SISO_Ant2_5210 |
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| 11AC80SISO_Ant1_5775 |
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| 11AC80SISO_Ant2_5775 |
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6dB bandwidth

| TestMode | Antenna | Frequency[MHz] | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5745 | 16.280 | 5736.840 | 5753.120 | 0.5 | PASS |
| | Ant2 | 5745 | 16.280 | 5736.840 | 5753.120 | 0.5 | PASS |
| | Ant1 | 5785 | 16.320 | 5776.840 | 5793.160 | 0.5 | PASS |
| | Ant2 | 5785 | 16.280 | 5776.840 | 5793.120 | 0.5 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Ant1 | 5825 | 16.040 | 5817.080 | 5833.120 | 0.5 | PASS |
| | Ant2 | 5825 | 16.040 | 5817.080 | 5833.120 | 0.5 | PASS |
| 11N20SISO | Ant1 | 5745 | 17.520 | 5736.200 | 5753.720 | 0.5 | PASS |
| | Ant2 | 5745 | 17.560 | 5736.200 | 5753.760 | 0.5 | PASS |
| | Ant1 | 5785 | 16.720 | 5776.640 | 5793.360 | 0.5 | PASS |
| | Ant2 | 5785 | 17.520 | 5776.200 | 5793.720 | 0.5 | PASS |
| | Ant1 | 5825 | 16.760 | 5816.600 | 5833.360 | 0.5 | PASS |
| | Ant2 | 5825 | 17.560 | 5816.200 | 5833.760 | 0.5 | PASS |
| 11N40SISO | Ant1 | 5755 | 36.000 | 5736.840 | 5772.840 | 0.5 | PASS |
| | Ant2 | 5755 | 36.320 | 5736.840 | 5773.160 | 0.5 | PASS |
| | Ant1 | 5795 | 36.080 | 5777.000 | 5813.080 | 0.5 | PASS |
| | Ant2 | 5795 | 36.240 | 5776.840 | 5813.080 | 0.5 | PASS |
| 11AC20SISO | Ant1 | 5745 | 17.520 | 5736.200 | 5753.720 | 0.5 | PASS |
| | Ant2 | 5745 | 17.560 | 5736.200 | 5753.760 | 0.5 | PASS |
| | Ant1 | 5785 | 17.160 | 5776.240 | 5793.400 | 0.5 | PASS |
| | Ant2 | 5785 | 17.520 | 5776.200 | 5793.720 | 0.5 | PASS |
| | Ant1 | 5825 | 17.560 | 5816.200 | 5833.760 | 0.5 | PASS |
| | Ant2 | 5825 | 17.560 | 5816.200 | 5833.760 | 0.5 | PASS |
| 11AC40SISO | Ant1 | 5755 | 36.000 | 5736.840 | 5772.840 | 0.5 | PASS |
| | Ant2 | 5755 | 36.320 | 5736.840 | 5773.160 | 0.5 | PASS |
| | Ant1 | 5795 | 36.000 | 5776.840 | 5812.840 | 0.5 | PASS |
| | Ant2 | 5795 | 35.920 | 5776.840 | 5812.760 | 0.5 | PASS |
| 11AC80SISO | Ant1 | 5775 | 75.200 | 5737.400 | 5812.600 | 0.5 | PASS |
| | Ant2 | 5775 | 75.200 | 5737.400 | 5812.600 | 0.5 | PASS |