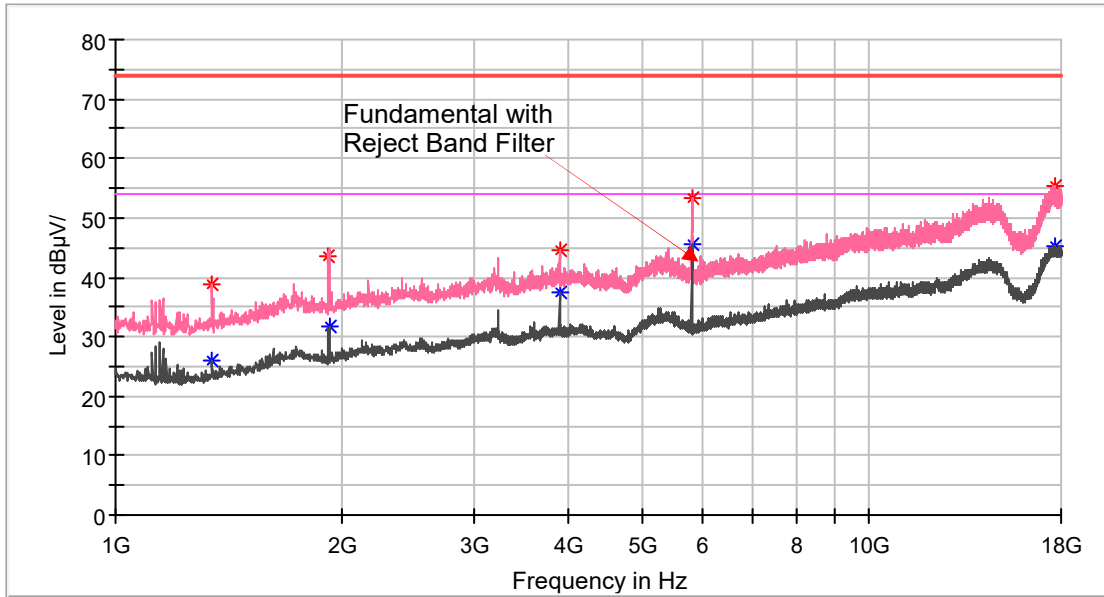


5825 MHz, Vertical

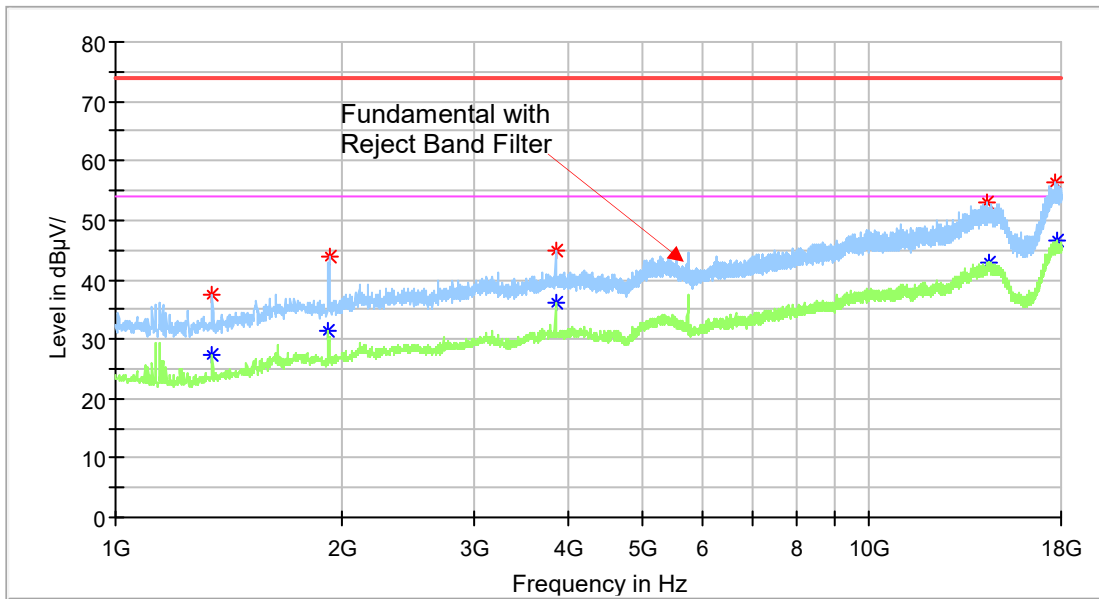


| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1343.400000 | --- | 25.92 | 54.00 | 28.08 | 150.0 | V | 348.0 | 0.9 |
| 1343.400000 | 38.91 | --- | 74.00 | 35.09 | 150.0 | V | 348.0 | 0.9 |
| 1918.000000 | 43.61 | --- | 74.00 | 30.39 | 150.0 | V | 0.0 | 5.2 |
| 1921.400000 | --- | 31.87 | 54.00 | 22.13 | 200.0 | V | 0.0 | 5.2 |
| 3883.200000 | --- | 37.49 | 54.00 | 16.51 | 150.0 | V | 181.0 | 10.6 |
| 3883.200000 | 44.58 | --- | 74.00 | 29.42 | 200.0 | V | 181.0 | 10.6 |
| 5819.500000 | 53.37 | --- | 74.00 | 20.63 | 150.0 | V | 192.0 | 13.7 |
| 5819.500000 | --- | 45.60 | 54.00 | 8.40 | 150.0 | V | 192.0 | 13.7 |
| 17648.100000 | --- | 45.38 | 54.00 | 8.62 | 150.0 | V | 148.0 | 29.2 |
| 17688.900000 | 55.29 | --- | 74.00 | 18.71 | 150.0 | V | 274.0 | 29.2 |

For 802.11n-HT40 mode

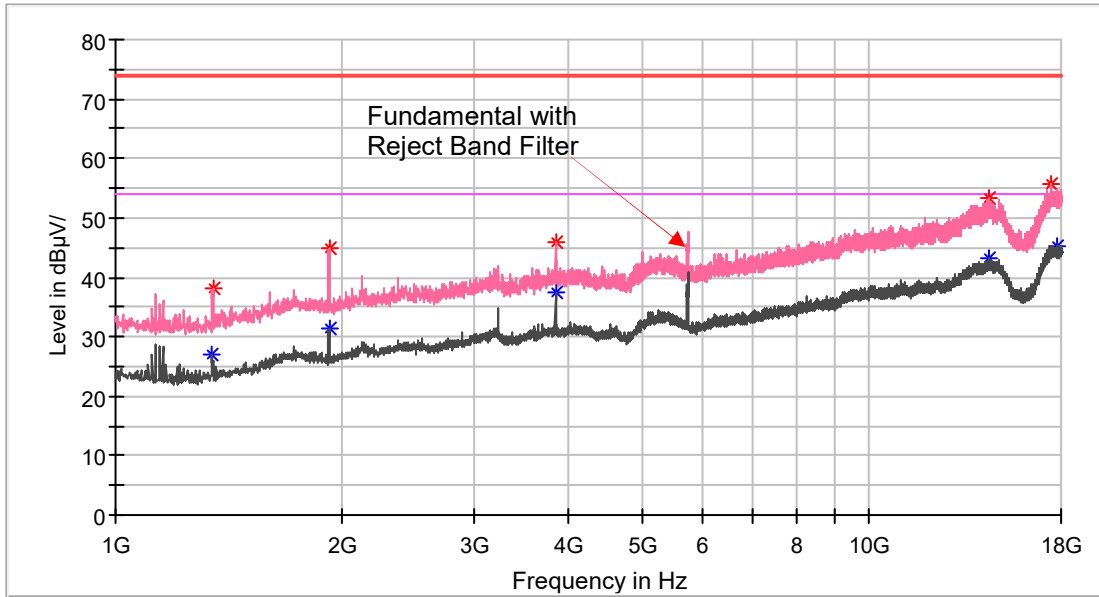
Chain 0 + Chain 1

5755 MHz, Horizontal



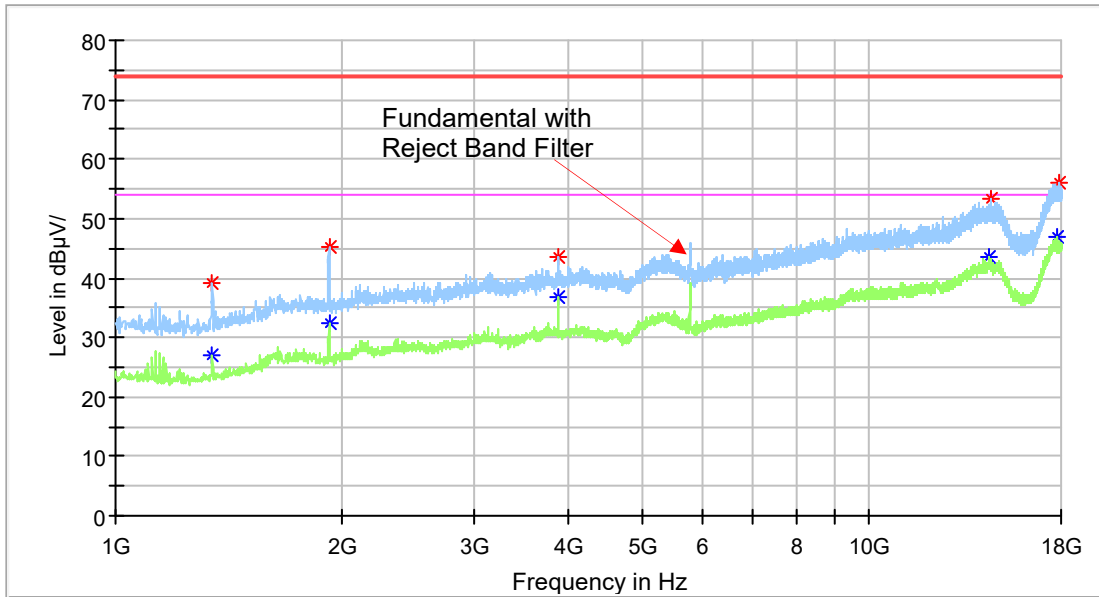
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1343.400000 | --- | 27.45 | 54.00 | 26.55 | 150.0 | H | 38.0 | 0.9 |
| 1343.400000 | 37.53 | --- | 74.00 | 36.47 | 200.0 | H | 38.0 | 0.9 |
| 1918.000000 | --- | 31.37 | 54.00 | 22.63 | 150.0 | H | 126.0 | 5.2 |
| 1923.100000 | 43.75 | --- | 74.00 | 30.25 | 150.0 | H | 126.0 | 5.3 |
| 3835.600000 | --- | 36.28 | 54.00 | 17.72 | 200.0 | H | 126.0 | 10.5 |
| 3835.600000 | 44.98 | --- | 74.00 | 29.02 | 150.0 | H | 126.0 | 10.5 |
| 14355.200000 | 52.97 | --- | 74.00 | 21.03 | 150.0 | H | 148.0 | 25.4 |
| 14448.700000 | --- | 42.95 | 54.00 | 11.05 | 200.0 | H | 289.0 | 25.5 |
| 17637.900000 | 56.33 | --- | 74.00 | 17.67 | 150.0 | H | 71.0 | 29.2 |
| 17731.400000 | --- | 46.42 | 54.00 | 7.58 | 150.0 | H | 126.0 | 29.2 |

5755 MHz, Vertical



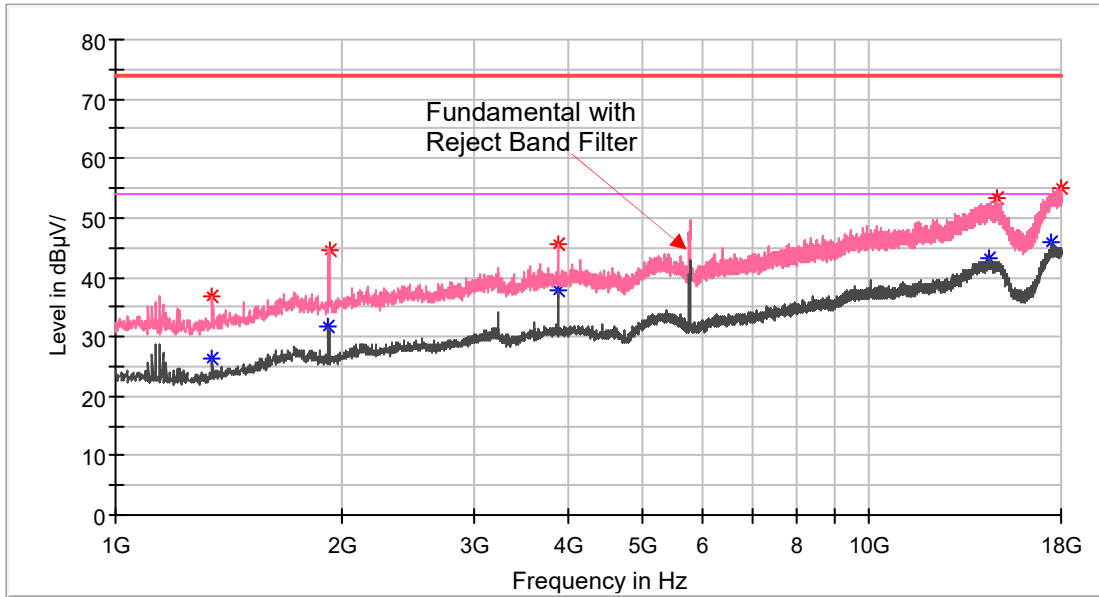
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1341.700000 | --- | 26.92 | 54.00 | 27.08 | 150.0 | V | 334.0 | 0.9 |
| 1346.800000 | 38.18 | --- | 74.00 | 35.82 | 200.0 | V | 334.0 | 0.9 |
| 1921.400000 | 44.97 | --- | 74.00 | 29.03 | 150.0 | V | 0.0 | 5.2 |
| 1921.400000 | --- | 31.39 | 54.00 | 22.61 | 150.0 | V | 0.0 | 5.2 |
| 3835.600000 | --- | 37.33 | 54.00 | 16.67 | 200.0 | V | 182.0 | 10.5 |
| 3835.600000 | 46.00 | --- | 74.00 | 28.00 | 150.0 | V | 182.0 | 10.5 |
| 14418.100000 | 53.39 | --- | 74.00 | 20.61 | 150.0 | V | 204.0 | 25.5 |
| 14469.100000 | --- | 43.30 | 54.00 | 10.70 | 200.0 | V | 279.0 | 25.5 |
| 17493.400000 | 55.60 | --- | 74.00 | 18.40 | 150.0 | V | 258.0 | 29.2 |
| 17770.500000 | --- | 45.24 | 54.00 | 8.76 | 150.0 | V | 334.0 | 29.2 |

5795 MHz, Horizontal



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1345.100000 | --- | 27.07 | 54.00 | 26.93 | 150.0 | H | 34.0 | 0.9 |
| 1345.100000 | 39.04 | --- | 74.00 | 34.96 | 200.0 | H | 34.0 | 0.9 |
| 1921.400000 | --- | 32.26 | 54.00 | 21.74 | 150.0 | H | 128.0 | 5.2 |
| 1921.400000 | 45.40 | --- | 74.00 | 28.60 | 150.0 | H | 128.0 | 5.2 |
| 3862.800000 | --- | 36.93 | 54.00 | 17.07 | 200.0 | H | 94.0 | 10.6 |
| 3862.800000 | 43.41 | --- | 74.00 | 30.59 | 150.0 | H | 94.0 | 10.6 |
| 14477.600000 | --- | 43.70 | 54.00 | 10.30 | 150.0 | H | 117.0 | 25.5 |
| 14547.300000 | 53.36 | --- | 74.00 | 20.64 | 150.0 | H | 161.0 | 25.5 |
| 17809.600000 | --- | 46.77 | 54.00 | 7.23 | 150.0 | H | 357.0 | 29.2 |
| 17923.500000 | 55.87 | --- | 74.00 | 18.13 | 200.0 | H | 266.0 | 29.2 |

5795 MHz, Vertical

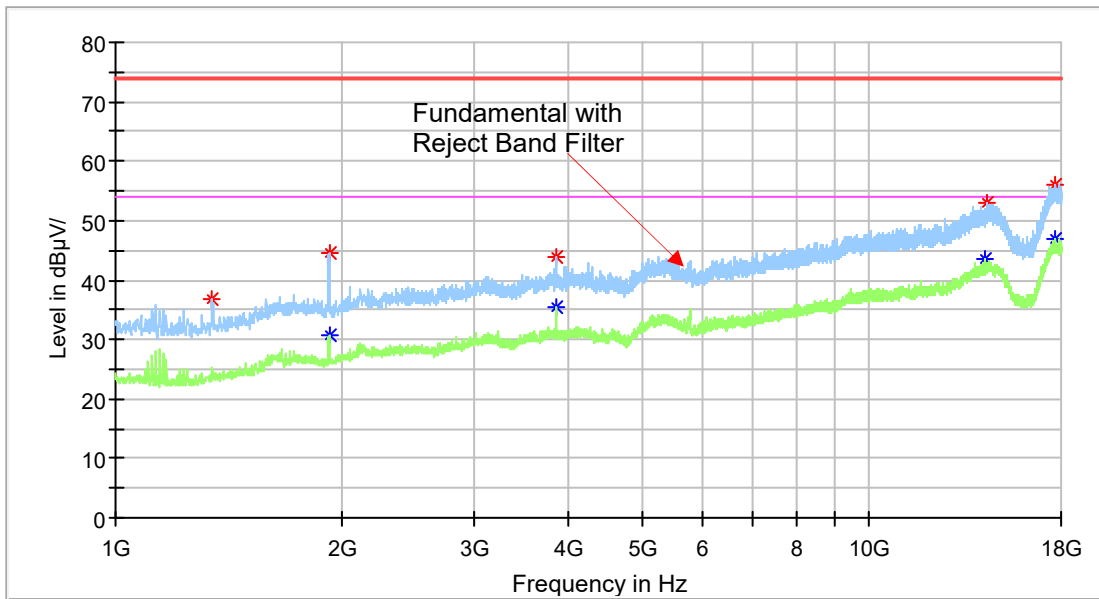


| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1345.100000 | --- | 26.40 | 54.00 | 27.60 | 150.0 | V | 337.0 | 0.9 |
| 1345.100000 | 36.72 | --- | 74.00 | 37.28 | 200.0 | V | 337.0 | 0.9 |
| 1918.000000 | --- | 31.62 | 54.00 | 22.38 | 150.0 | V | 0.0 | 5.2 |
| 1921.400000 | 44.58 | --- | 74.00 | 29.42 | 200.0 | V | 7.0 | 5.2 |
| 3862.800000 | --- | 37.83 | 54.00 | 16.17 | 150.0 | V | 171.0 | 10.6 |
| 3862.800000 | 45.65 | --- | 74.00 | 28.35 | 150.0 | V | 171.0 | 10.6 |
| 14475.900000 | --- | 43.24 | 54.00 | 10.76 | 200.0 | V | 2.0 | 25.5 |
| 14783.600000 | 53.28 | --- | 74.00 | 20.72 | 150.0 | V | 350.0 | 25.4 |
| 17507.000000 | --- | 45.76 | 54.00 | 8.24 | 150.0 | V | 0.0 | 29.2 |
| 17998.300000 | 54.99 | --- | 74.00 | 19.01 | 150.0 | V | 126.0 | 29.2 |

For 802.11ac80 mode

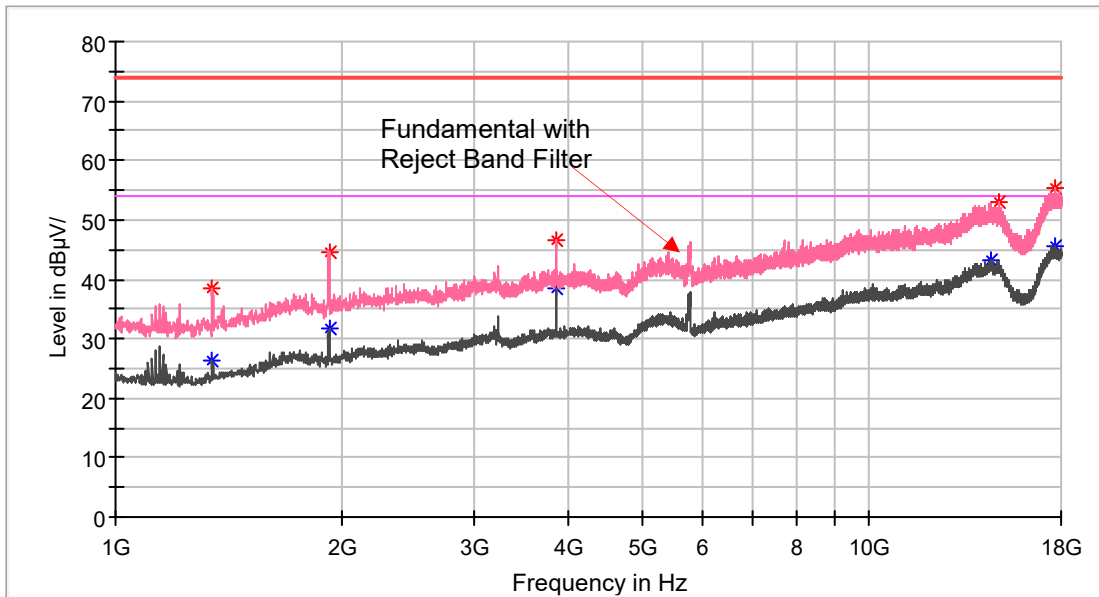
Chain 0 + Chain 1

5775 MHz, Horizontal



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1343.400000 | 36.89 | --- | 74.00 | 37.11 | 200.0 | H | 37.0 | 0.9 |
| 1921.400000 | --- | 30.72 | 54.00 | 23.28 | 150.0 | H | 49.0 | 5.2 |
| 1921.400000 | 44.48 | --- | 74.00 | 29.52 | 150.0 | H | 49.0 | 5.2 |
| 3849.200000 | --- | 35.60 | 54.00 | 18.40 | 200.0 | H | 137.0 | 10.5 |
| 3849.200000 | 43.81 | --- | 74.00 | 30.19 | 150.0 | H | 137.0 | 10.5 |
| 14270.200000 | --- | 43.41 | 54.00 | 10.59 | 150.0 | H | 170.0 | 25.3 |
| 14360.300000 | 52.85 | --- | 74.00 | 21.15 | 150.0 | H | 0.0 | 25.4 |
| 17675.300000 | --- | 46.91 | 54.00 | 7.09 | 150.0 | H | 0.0 | 29.2 |
| 17705.900000 | 55.97 | --- | 74.00 | 18.03 | 150.0 | H | 49.0 | 29.2 |

5775 MHz, Vertical



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 1345.100000 | --- | 26.42 | 54.00 | 27.58 | 200.0 | V | 338.0 | 0.9 |
| 1345.100000 | 38.42 | --- | 74.00 | 35.58 | 150.0 | V | 338.0 | 0.9 |
| 1921.400000 | 44.67 | --- | 74.00 | 29.33 | 200.0 | V | 348.0 | 5.2 |
| 1921.400000 | --- | 31.68 | 54.00 | 22.32 | 150.0 | V | 348.0 | 5.2 |
| 3849.200000 | --- | 38.63 | 54.00 | 15.37 | 150.0 | V | 174.0 | 10.5 |
| 3849.200000 | 46.69 | --- | 74.00 | 27.31 | 150.0 | V | 174.0 | 10.5 |
| 14499.700000 | --- | 43.17 | 54.00 | 10.83 | 200.0 | V | 139.0 | 25.5 |
| 14870.300000 | 52.98 | --- | 74.00 | 21.02 | 150.0 | V | 359.0 | 25.4 |
| 17631.100000 | --- | 45.74 | 54.00 | 8.26 | 150.0 | V | 0.0 | 29.2 |
| 17651.500000 | 55.35 | --- | 74.00 | 18.65 | 150.0 | V | 294.0 | 29.2 |

Band Edge Emission:

802.11a Mode

Chain 0

| Frequency | Receiver | | Rx Antenna | | Cable loss | Amplifier Gain | Corrected Amplitude | Limit | Margin |
|----------------------------|----------|-------------|------------|---------|------------|----------------|---------------------|--------|--------|
| | Reading | Measurement | Polar | Factor | | | | | |
| MHz | dBµV | PK/AV | H/V | dB(1/m) | dB | dB | dBµV/m | dBµV/m | dB |
| Frequency: 5745 MHz | | | | | | | | | |
| 5745 | 54.35 | PK | V | 34.15 | 5.00 | 0.00 | 93.50 | N/A | N/A |
| 5745 | 40.16 | AV | V | 34.15 | 5.00 | 0.00 | 79.31 | N/A | N/A |
| 5650 | 26.82 | PK | V | 34.17 | 4.94 | 0.00 | 65.93 | 68.20 | 2.27 |
| 5700 | 27.07 | PK | V | 34.16 | 4.97 | 0.00 | 66.20 | 105.20 | 39.00 |
| 5720 | 32.26 | PK | V | 34.16 | 4.98 | 0.00 | 71.40 | 110.80 | 39.40 |
| 5725 | 32.78 | PK | V | 34.16 | 4.99 | 0.00 | 71.93 | 122.20 | 50.27 |
| Frequency: 5825 MHz | | | | | | | | | |
| 5825 | 55.68 | PK | V | 34.14 | 5.05 | 0.00 | 94.87 | N/A | N/A |
| 5825 | 41.77 | AV | V | 34.14 | 5.05 | 0.00 | 80.96 | N/A | N/A |
| 5850 | 32.11 | PK | V | 34.13 | 5.06 | 0.00 | 71.30 | 122.20 | 50.90 |
| 5855 | 31.63 | PK | V | 34.13 | 5.06 | 0.00 | 70.82 | 110.80 | 39.98 |
| 5875 | 27.45 | PK | V | 34.13 | 5.08 | 0.00 | 66.66 | 105.20 | 38.54 |
| 5925 | 27.31 | PK | V | 34.12 | 5.11 | 0.00 | 66.54 | 68.20 | 1.66 |

Chain 1

| Frequency | Receiver | | Rx Antenna | | Cable loss | Amplifier Gain | Corrected Amplitude | Limit | Margin |
|----------------------------|----------|-------------|------------|---------|------------|----------------|---------------------|--------|--------|
| | Reading | Measurement | Polar | Factor | | | | | |
| MHz | dBµV | PK/AV | H/V | dB(1/m) | dB | dB | dBµV/m | dBµV/m | dB |
| Frequency: 5745 MHz | | | | | | | | | |
| 5745 | 54.16 | PK | V | 34.15 | 5.00 | 0.00 | 93.31 | N/A | N/A |
| 5745 | 40.44 | AV | V | 34.15 | 5.00 | 0.00 | 79.59 | N/A | N/A |
| 5650 | 26.26 | PK | V | 34.17 | 4.94 | 0.00 | 65.37 | 68.20 | 2.83 |
| 5700 | 26.8 | PK | V | 34.16 | 4.97 | 0.00 | 65.93 | 105.20 | 39.27 |
| 5720 | 33.03 | PK | V | 34.16 | 4.98 | 0.00 | 72.17 | 110.80 | 38.63 |
| 5725 | 33.16 | PK | V | 34.16 | 4.99 | 0.00 | 72.31 | 122.20 | 49.89 |
| Frequency: 5825 MHz | | | | | | | | | |
| 5825 | 56.41 | PK | V | 34.14 | 5.05 | 0.00 | 95.60 | N/A | N/A |
| 5825 | 42.11 | AV | V | 34.14 | 5.05 | 0.00 | 81.30 | N/A | N/A |
| 5850 | 31.13 | PK | V | 34.13 | 5.06 | 0.00 | 70.32 | 122.20 | 51.88 |
| 5855 | 31.88 | PK | V | 34.13 | 5.06 | 0.00 | 71.07 | 110.80 | 39.73 |
| 5875 | 26.51 | PK | V | 34.13 | 5.08 | 0.00 | 65.72 | 105.20 | 39.48 |
| 5925 | 26.73 | PK | V | 34.12 | 5.11 | 0.00 | 65.96 | 68.20 | 2.24 |

802.11n-HT20 Mode

Chain 0 + Chain 1

| Frequency | Receiver | | Rx Antenna | | Cable loss | Amplifier Gain | Corrected Amplitude | Limit | Margin |
|----------------------------|----------|-------------|------------|---------|------------|----------------|---------------------|--------|--------|
| | Reading | Measurement | Polar | Factor | | | | | |
| MHz | dBµV | PK/AV | H/V | dB(1/m) | dB | dB | dBµV/m | dBµV/m | dB |
| Frequency: 5745 MHz | | | | | | | | | |
| 5745 | 55.58 | PK | V | 34.15 | 5.00 | 0.00 | 94.73 | N/A | N/A |
| 5745 | 43.22 | AV | V | 34.15 | 5.00 | 0.00 | 82.37 | N/A | N/A |
| 5650 | 26.64 | PK | V | 34.17 | 4.94 | 0.00 | 65.75 | 68.20 | 2.45 |
| 5700 | 27.41 | PK | V | 34.16 | 4.97 | 0.00 | 66.54 | 105.20 | 38.66 |
| 5720 | 33.15 | PK | V | 34.16 | 4.98 | 0.00 | 72.29 | 110.80 | 38.51 |
| 5725 | 32.55 | PK | V | 34.16 | 4.99 | 0.00 | 71.70 | 122.20 | 50.50 |
| Frequency: 5825 MHz | | | | | | | | | |
| 5825 | 58.8 | PK | V | 34.14 | 5.05 | 0.00 | 97.99 | N/A | N/A |
| 5825 | 44.87 | AV | V | 34.14 | 5.05 | 0.00 | 84.06 | N/A | N/A |
| 5850 | 33.12 | PK | V | 34.13 | 5.06 | 0.00 | 72.31 | 122.20 | 49.89 |
| 5855 | 32.18 | PK | V | 34.13 | 5.06 | 0.00 | 71.37 | 110.80 | 39.43 |
| 5875 | 26.81 | PK | V | 34.13 | 5.08 | 0.00 | 66.02 | 105.20 | 39.18 |
| 5925 | 27.66 | PK | V | 34.12 | 5.11 | 0.00 | 66.89 | 68.20 | 1.31 |

802.11n-HT40 Mode

Chain 0 + Chain 1

| Frequency | Receiver | | Rx Antenna | | Cable loss | Amplifier Gain | Corrected Amplitude | Limit | Margin |
|----------------------------|----------|-------------|------------|---------|------------|----------------|---------------------|--------|--------|
| | Reading | Measurement | Polar | Factor | | | | | |
| MHz | dBµV | PK/AV | H/V | dB(1/m) | dB | dB | dBµV/m | dBµV/m | dB |
| Frequency: 5755 MHz | | | | | | | | | |
| 5755 | 54.55 | PK | V | 34.15 | 5.00 | 0.00 | 93.70 | N/A | N/A |
| 5755 | 42.22 | AV | V | 34.15 | 5.00 | 0.00 | 81.37 | N/A | N/A |
| 5650 | 27.94 | PK | V | 34.17 | 4.94 | 0.00 | 67.05 | 68.20 | 1.15 |
| 5700 | 26.89 | PK | V | 34.16 | 4.97 | 0.00 | 66.02 | 105.20 | 39.18 |
| 5720 | 29.18 | PK | V | 34.16 | 4.98 | 0.00 | 68.32 | 110.80 | 42.48 |
| 5725 | 31.05 | PK | V | 34.16 | 4.99 | 0.00 | 70.20 | 122.20 | 52.00 |
| Frequency: 5795 MHz | | | | | | | | | |
| 5795 | 54.78 | PK | V | 34.14 | 5.03 | 0.00 | 93.95 | N/A | N/A |
| 5795 | 42.4 | AV | V | 34.14 | 5.03 | 0.00 | 81.57 | N/A | N/A |
| 5850 | 30.15 | PK | V | 34.13 | 5.06 | 0.00 | 69.34 | 122.20 | 52.86 |
| 5855 | 29.51 | PK | V | 34.13 | 5.06 | 0.00 | 68.70 | 110.80 | 42.10 |
| 5875 | 27.88 | PK | V | 34.13 | 5.08 | 0.00 | 67.09 | 105.20 | 38.11 |
| 5925 | 26.46 | PK | V | 34.12 | 5.11 | 0.00 | 65.69 | 68.20 | 2.51 |

802.11ac80 Mode

Chain 0 + Chain 1

| Frequency | Receiver | | Rx Antenna | | Cable loss | Amplifier Gain | Corrected Amplitude | Limit | Margin |
|----------------------------|----------|-------------|------------|---------|------------|----------------|---------------------|--------|--------|
| | Reading | Measurement | Polar | Factor | | | | | |
| MHz | dBµV | PK/AV | H/V | dB(1/m) | dB | dB | dBµV/m | dBµV/m | dB |
| Frequency: 5775 MHz | | | | | | | | | |
| 5775 | 49.75 | PK | V | 34.15 | 5.02 | 0.00 | 88.92 | N/A | N/A |
| 5775 | 33.62 | AV | V | 34.15 | 5.02 | 0.00 | 72.79 | N/A | N/A |
| 5650 | 27.55 | PK | V | 34.17 | 4.94 | 0.00 | 66.66 | 68.20 | 1.54 |
| 5700 | 27.25 | PK | V | 34.16 | 4.97 | 0.00 | 66.38 | 105.20 | 38.82 |
| 5720 | 29.38 | PK | V | 34.16 | 4.98 | 0.00 | 68.52 | 110.80 | 42.28 |
| 5725 | 27.88 | PK | V | 34.16 | 4.99 | 0.00 | 67.03 | 122.20 | 55.17 |
| 5850 | 26.97 | PK | V | 34.13 | 5.06 | 0.00 | 66.16 | 122.20 | 56.04 |
| 5855 | 27.18 | PK | V | 34.13 | 5.06 | 0.00 | 66.37 | 110.80 | 44.43 |
| 5875 | 26.72 | PK | V | 34.13 | 5.08 | 0.00 | 65.93 | 105.20 | 39.27 |
| 5925 | 26.83 | PK | V | 34.12 | 5.11 | 0.00 | 66.06 | 68.20 | 2.14 |

Note:

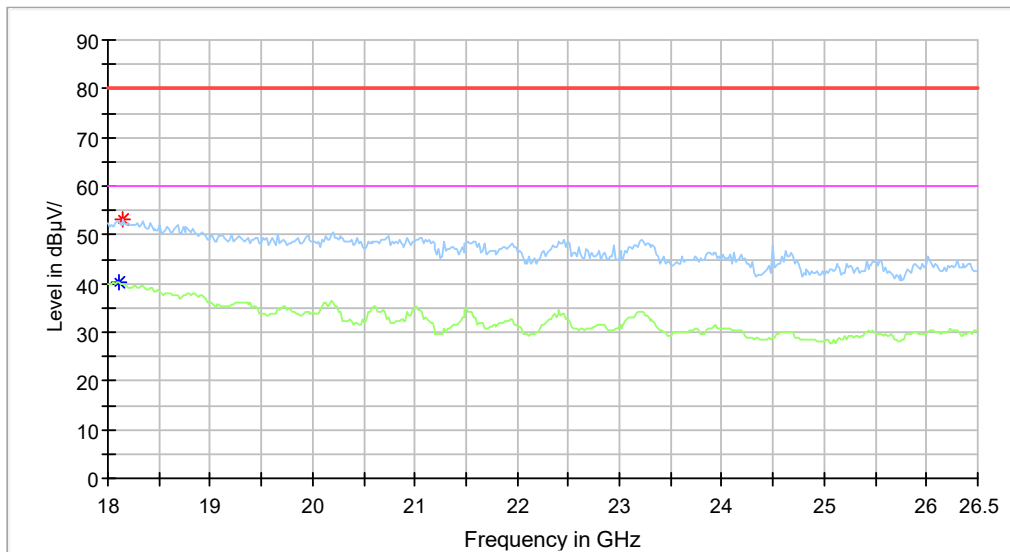
Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor or Antenna factor (RX) + Cable Loss

Margin = Limit- Corr. Amplitude

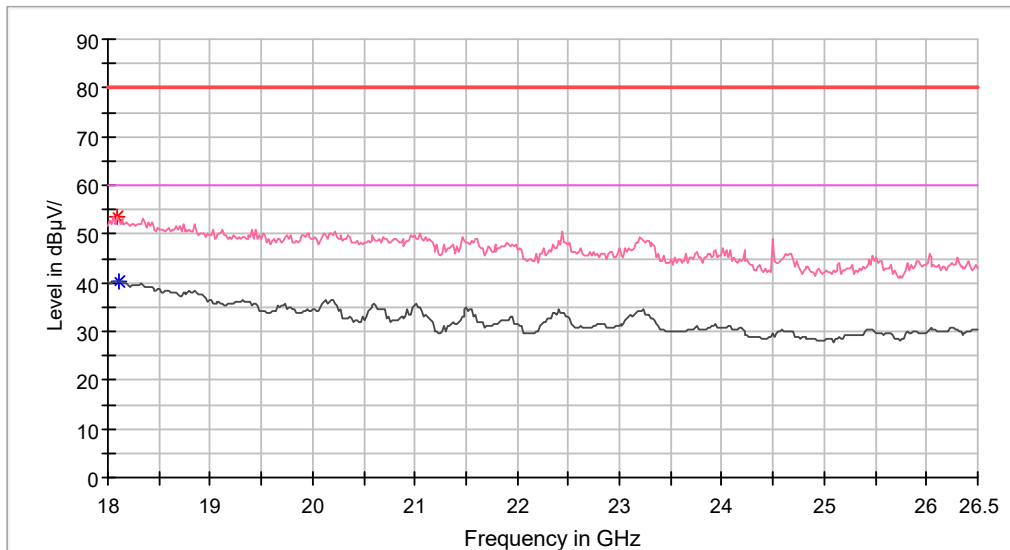
18 GHz to 26.5 GHz: 5150-5250 MHz band: 802.11n20-High channel - worst case

Horizontal



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 18102.204409 | --- | 40.15 | 60.00 | 19.85 | 100.0 | H | 82.0 | 7.9 |
| 18153.306613 | 53.05 | --- | 80.00 | 26.95 | 100.0 | H | 236.0 | 7.9 |

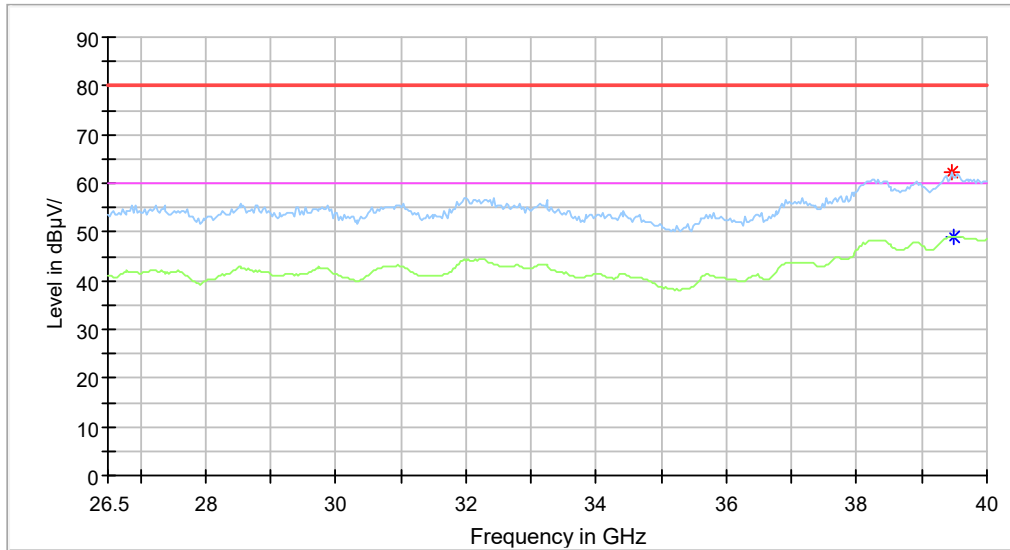
Vertical



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 18085.170341 | 53.63 | --- | 80.00 | 26.37 | 100.0 | V | 9.0 | 7.9 |
| 18102.204409 | --- | 40.37 | 60.00 | 19.63 | 100.0 | V | 160.0 | 7.9 |

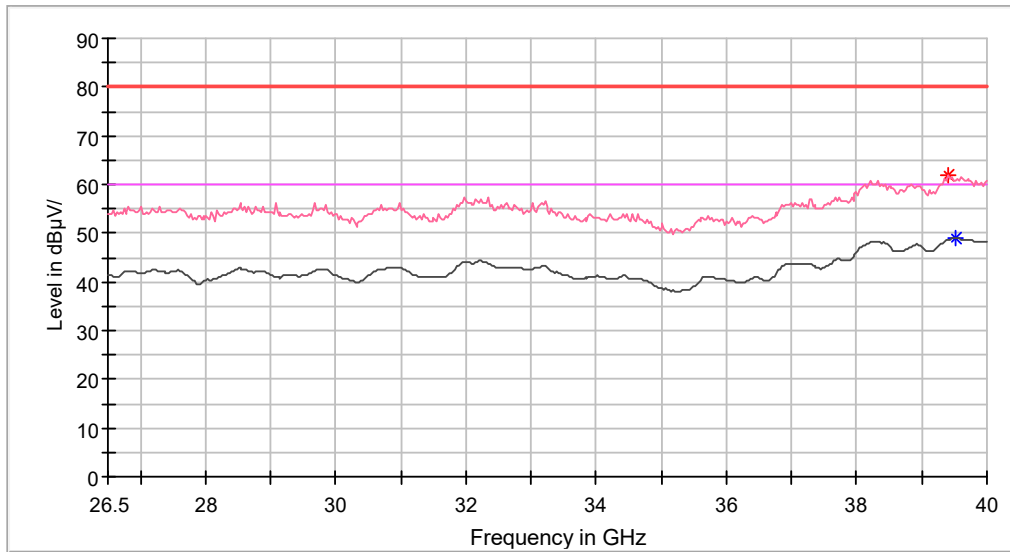
26.5 GHz to 40 GHz: 5150-5250MHz band: 802.11n20-High channel - worst case

Horizontal



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 39458.917836 | 62.36 | --- | 80.00 | 17.64 | 100.0 | H | 352.0 | 14.2 |
| 39485.971944 | --- | 49.11 | 60.00 | 10.89 | 100.0 | H | 174.0 | 14.2 |

Vertical



| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 39404.809619 | 61.75 | --- | 80.00 | 18.25 | 100.0 | V | 21.0 | 14.3 |
| 39513.026052 | --- | 49.02 | 60.00 | 10.98 | 100.0 | V | 21.0 | 14.2 |

FCC §15.407(a) (5) & (e) – 26dB & 6dB BANDWIDTH

Applicable Standard

(a)(5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3.
 - (A) 26dB Bandwidth
Set RBW = approximately 1% of the emission bandwidth.
Set the VBW > RBW. Detector= Peak. Trace mode = max hold. Measure the maximum width of the emission that is 26 dB down from the maximum 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%.
 - (B) 6dB Bandwidth
Set RBW = 100 kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
 - (C) 99% Occupied Bandwidth
The following procedure shall be used for measuring (99 %) power bandwidth:
 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 $\geq 3 \cdot$ RBW
 5. Use the 99 % power bandwidth function of the instrument.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

| | | |
|---------------------------|----------|----------|
| Temperature: | 24 °C | 26 °C |
| Relative Humidity: | 48 % | 47 % |
| ATM Pressure: | 95.8 kPa | 95.8 kPa |

The testing was performed by Winfred Wang on 2021-04-30 and 2021-05-07.

Test Result: Pass. Please refer to the following tables and plots.

Test mode: Transmitting

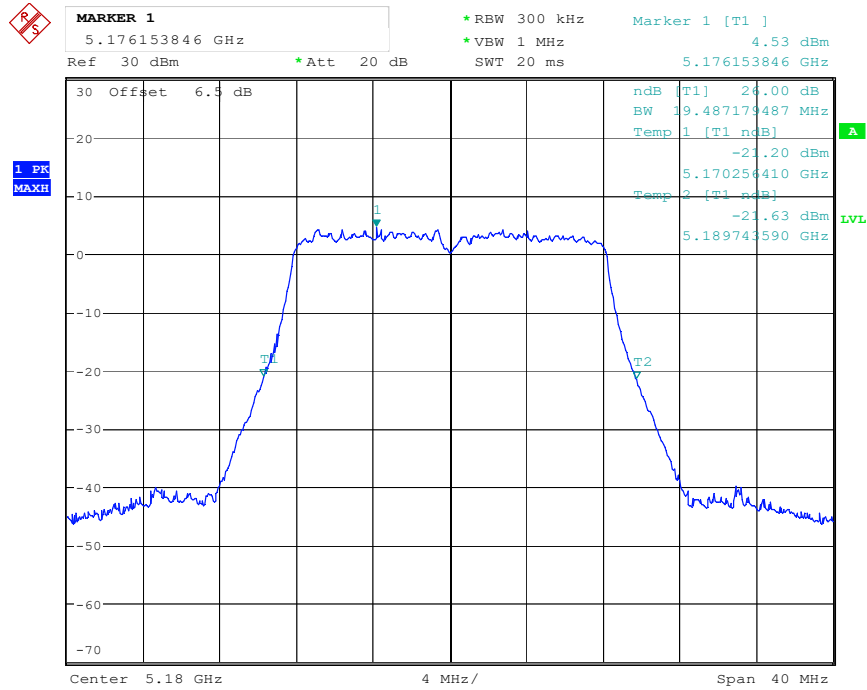
For 5150-5250 MHz:

| Mode | Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | | 99% Occupied Bandwidth (MHz) | |
|--------------|---------|-----------------|----------------------|---------|------------------------------|---------|
| | | | Chain 0 | Chain 1 | Chain 0 | Chain 1 |
| 802.11a | Low | 5180 | 19.49 | 19.55 | 16.54 | 16.54 |
| | Middle | 5200 | 19.62 | 19.42 | 16.54 | 16.54 |
| | High | 5240 | 19.49 | 19.42 | 16.54 | 16.54 |
| 802.11n-HT20 | Low | 5180 | 20.38 | 20.19 | 17.69 | 17.69 |
| | Middle | 5200 | 20.26 | 20.19 | 17.69 | 17.69 |
| | High | 5240 | 20.32 | 20.13 | 17.63 | 17.69 |
| 802.11n-HT40 | Low | 5190 | 38.97 | 39.23 | 36.03 | 35.90 |
| | High | 5230 | 38.85 | 39.10 | 35.90 | 35.90 |
| 802.11ac80 | Middle | 5210 | 81.41 | 81.57 | 76.12 | 75.96 |

Note: the 99% Occupied Bandwidth doesn't extend U-NII-2A band 5250-5350MHz.

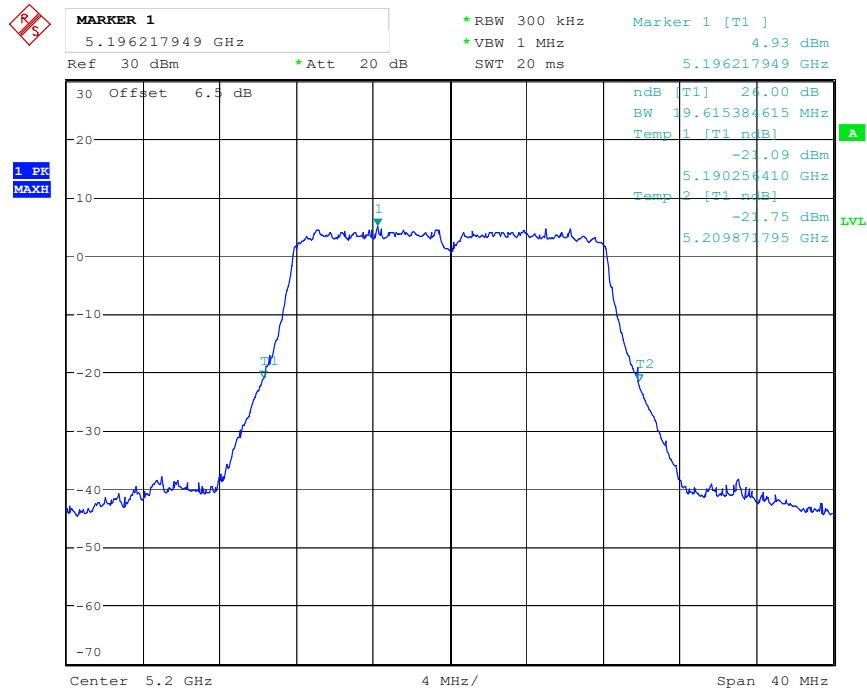
Chain 0

802.11a mode, 26 dB Bandwidth-5180 MHz



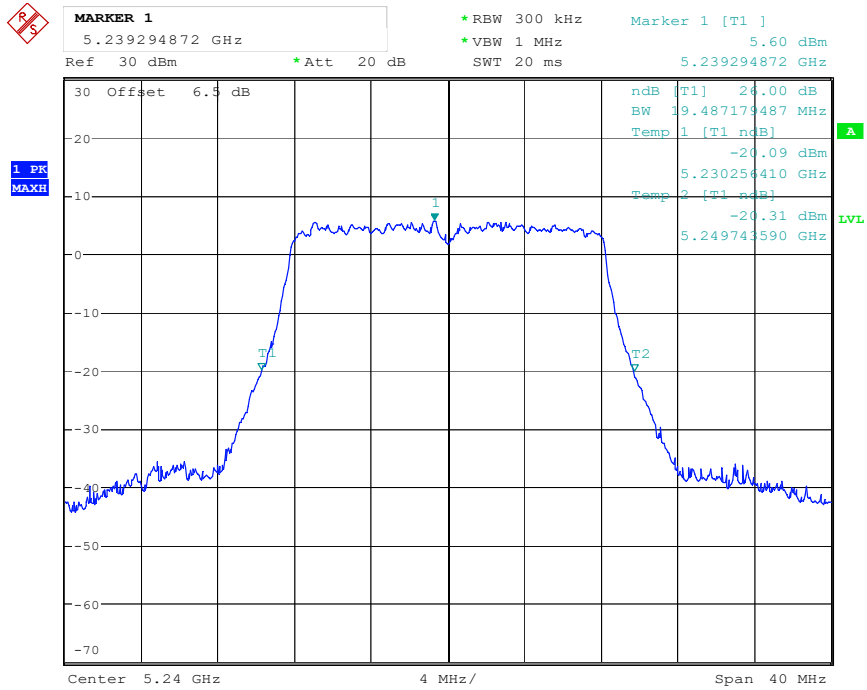
Date: 30.APR.2021 19:14:40

802.11a mode, 26 dB Bandwidth-5200 MHz



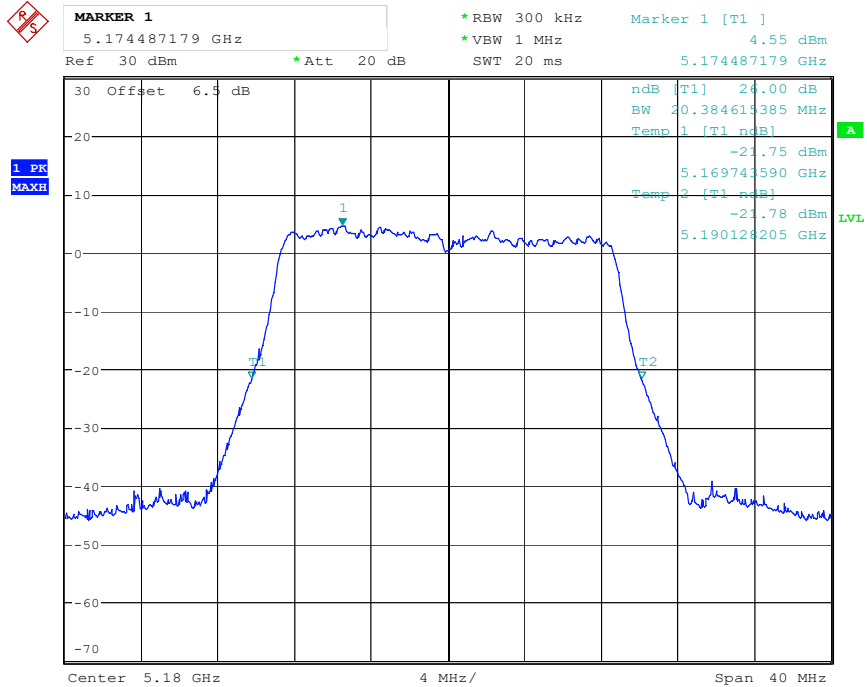
Date: 30.APR.2021 19:18:06

802.11a mode, 26 dB Bandwidth-5240 MHz



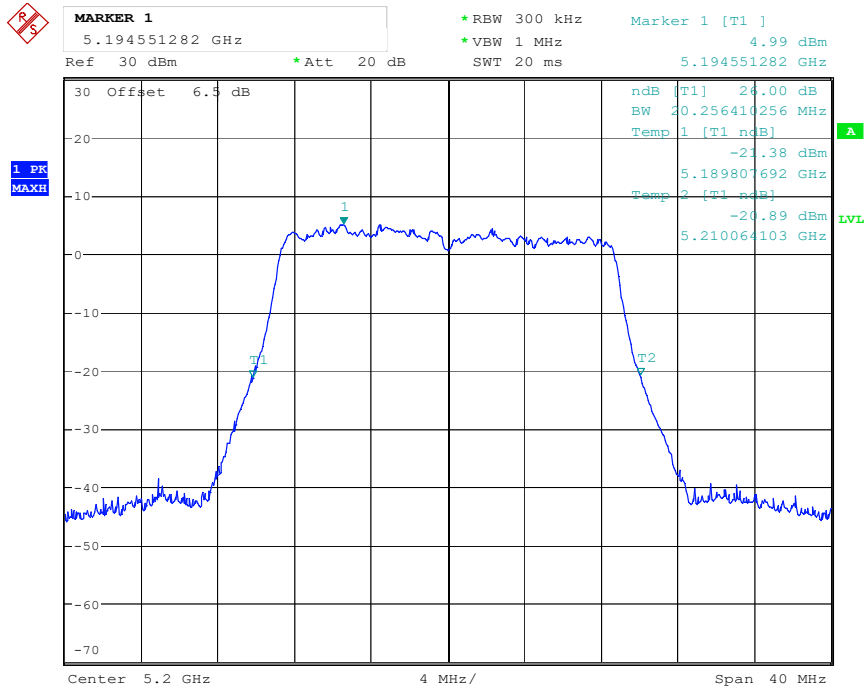
Date: 30.APR.2021 19:18:31

802.11n-HT20 mode, 26 dB Bandwidth-5180 MHz



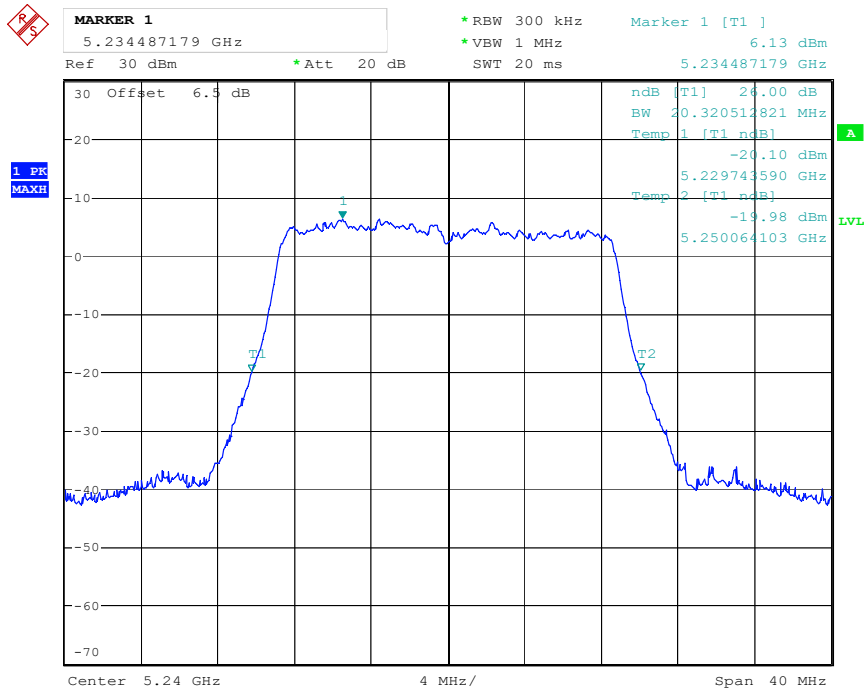
Date: 30.APR.2021 19:19:46

802.11n-HT20 mode, 26 dB Bandwidth-5200 MHz



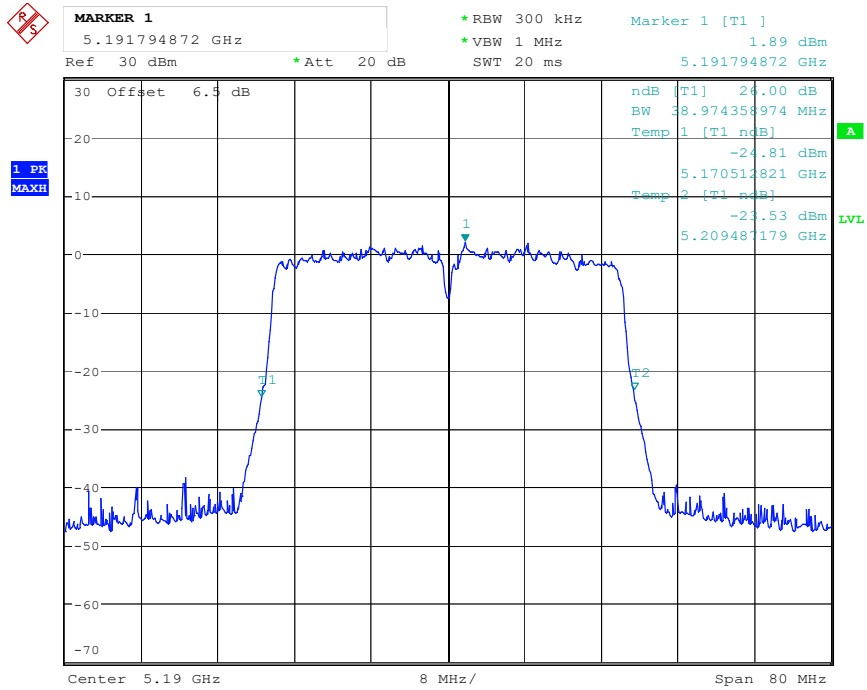
Date: 30.APR.2021 19:20:14

802.11n-HT20 mode, 26 dB Bandwidth-5240 MHz



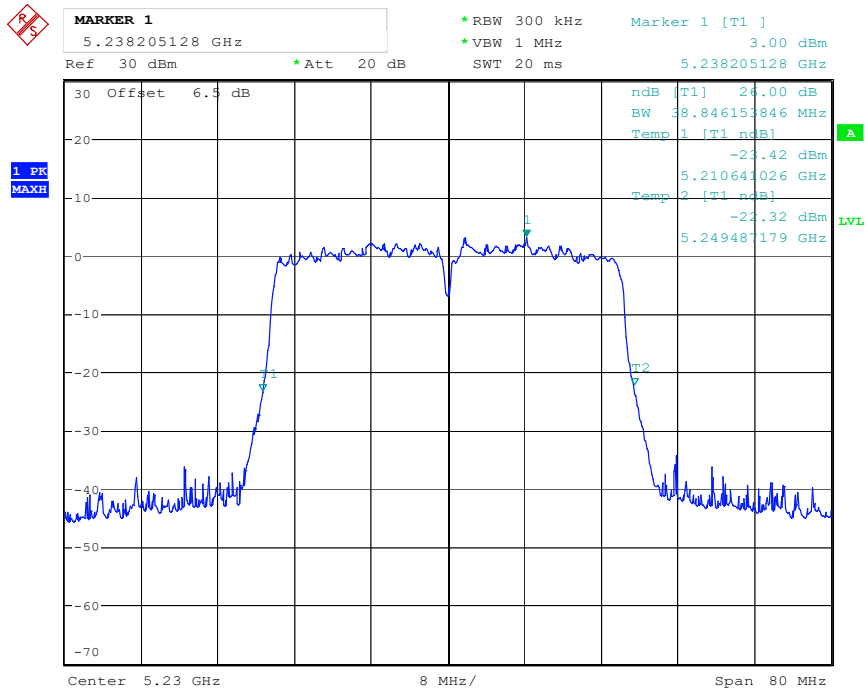
Date: 30.APR.2021 19:20:41

802.11n-HT40 mode, 26 dB Bandwidth-5190 MHz



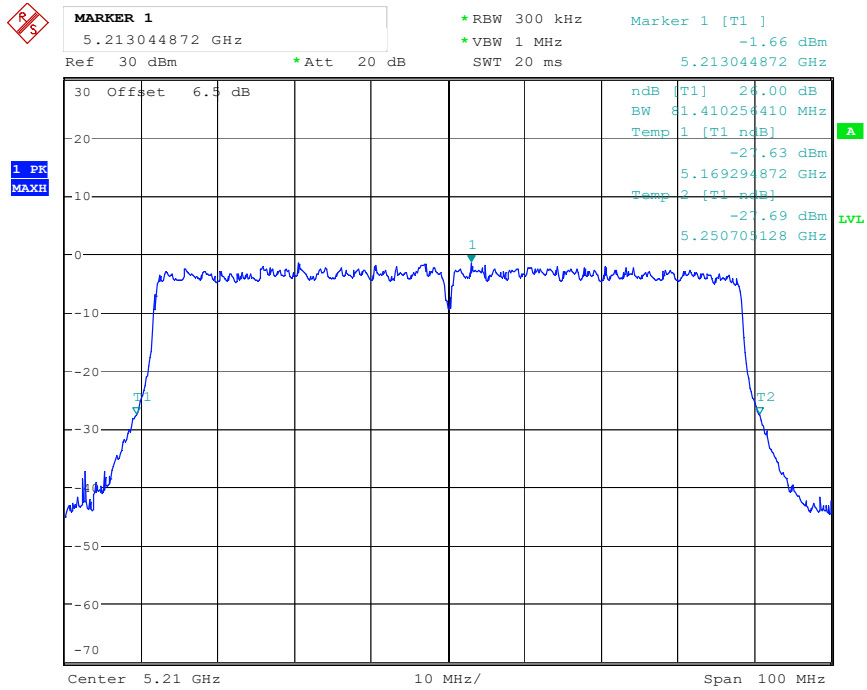
Date: 30.APR.2021 19:21:25

802.11n-HT40 mode, 26 dB Bandwidth-5230 MHz



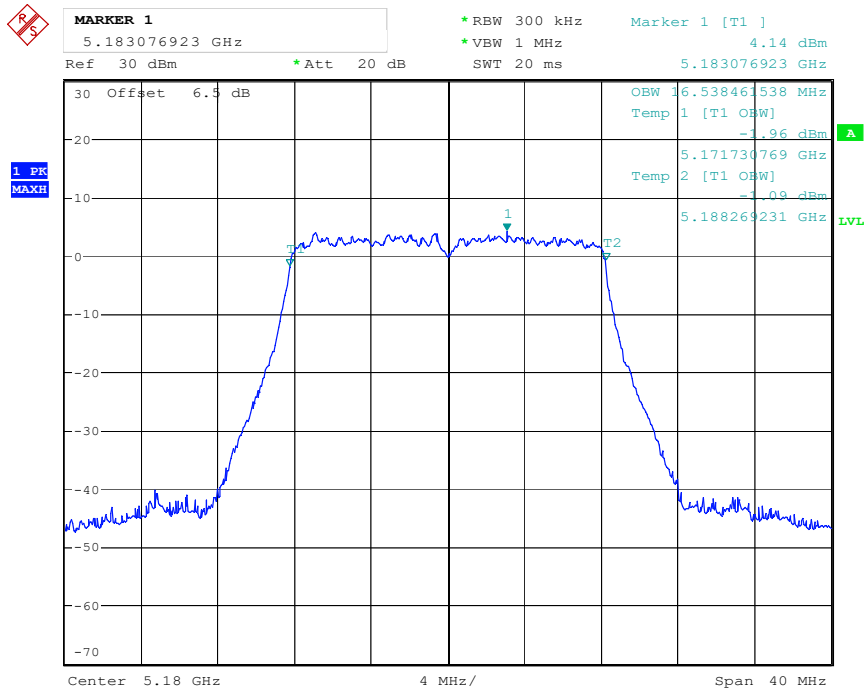
Date: 30.APR.2021 19:21:52

802.11ac80 mode, 26 dB Bandwidth-5210 MHz



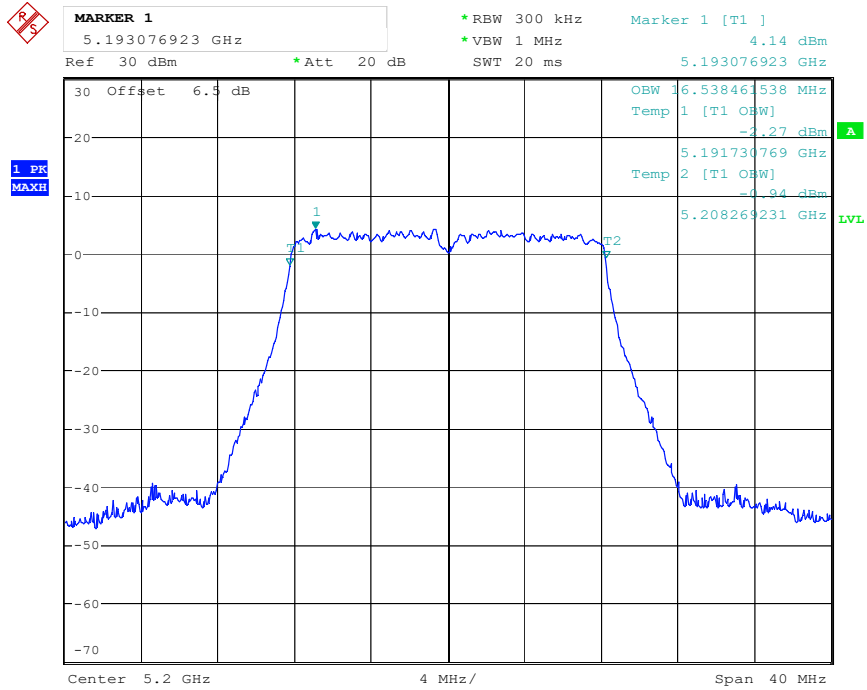
Date: 30.APR.2021 19:22:47

802.11a mode, 99% Occupied Bandwidth-5180 MHz



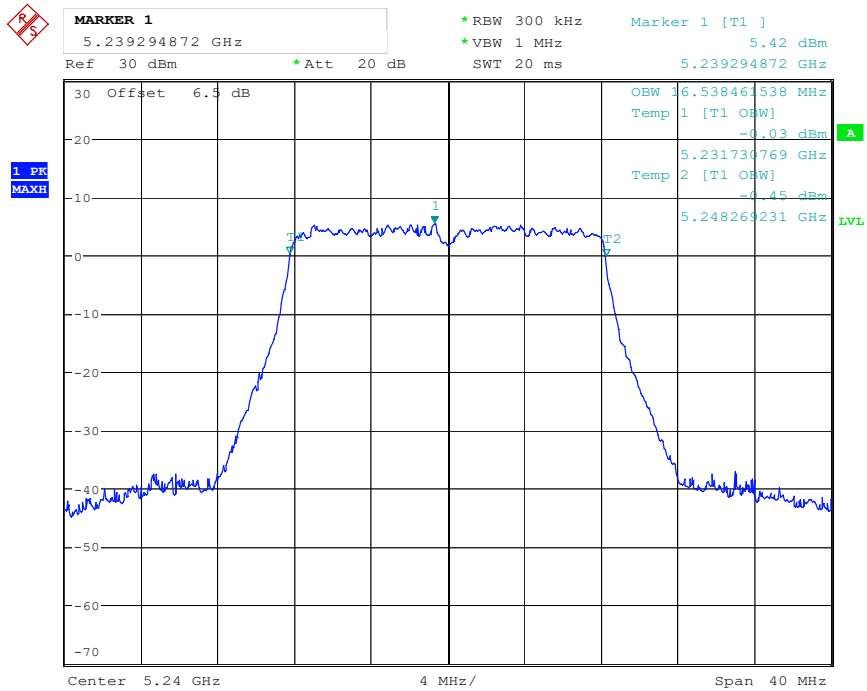
Date: 30.APR.2021 19:47:08

802.11a mode, 99% Occupied Bandwidth -5200 MHz



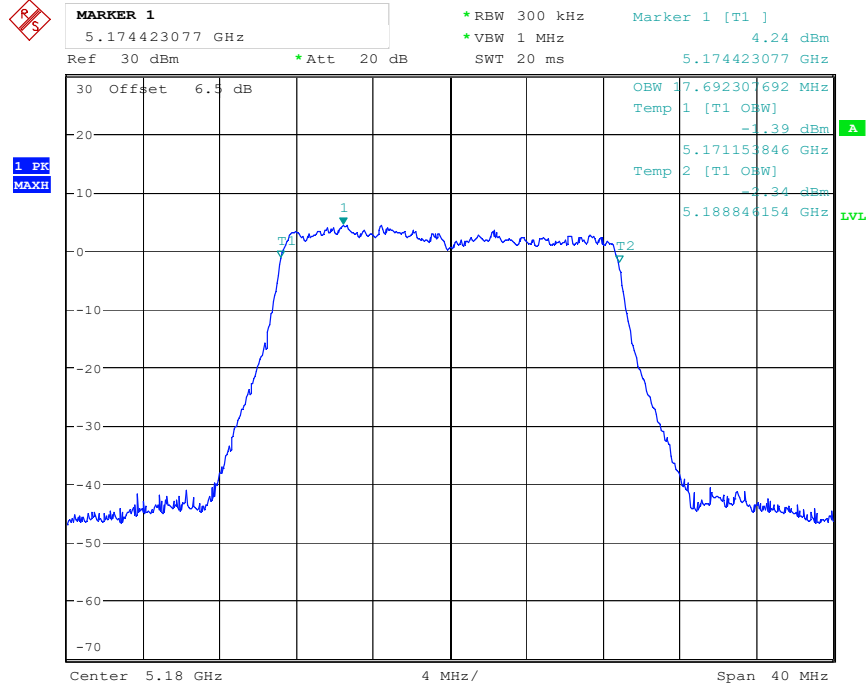
Date: 30.APR.2021 19:47:29

802.11a mode, 99% Occupied Bandwidth -5240 MHz



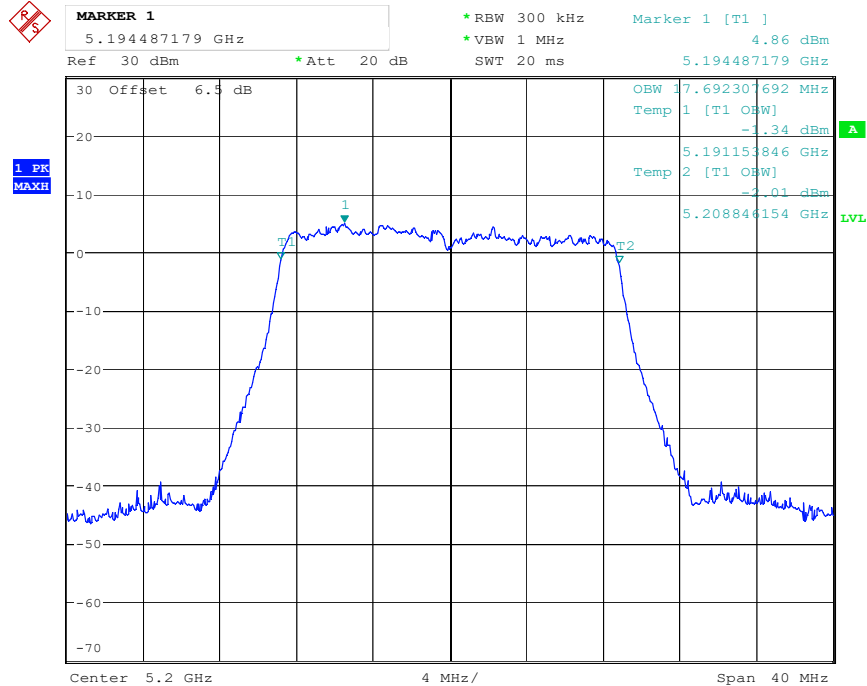
Date: 30.APR.2021 19:47:53

802.11n-HT20 mode, 99% Occupied Bandwidth-5180 MHz



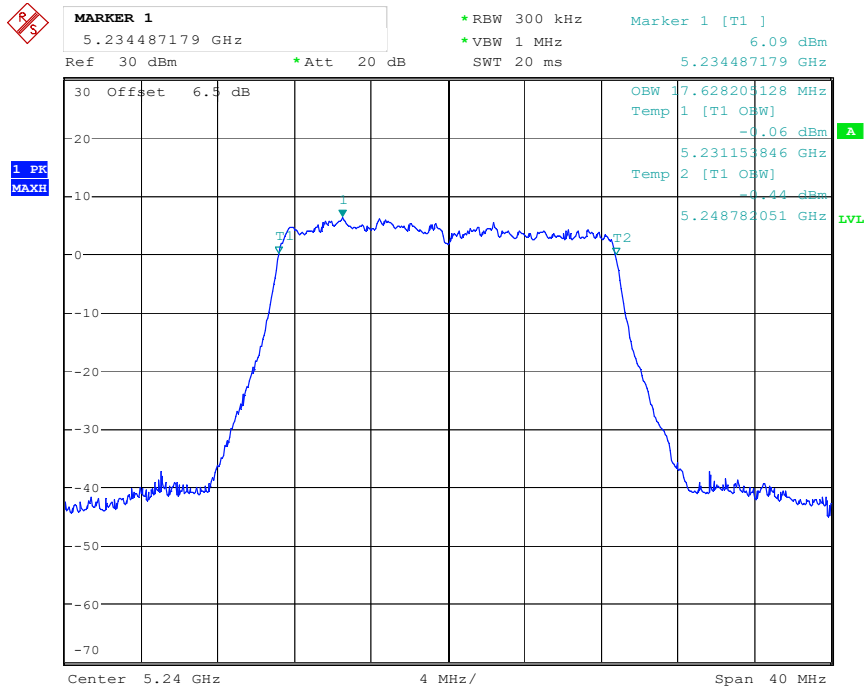
Date: 30.APR.2021 19:46:48

802.11n-HT20 mode, 99% Occupied Bandwidth -5200 MHz



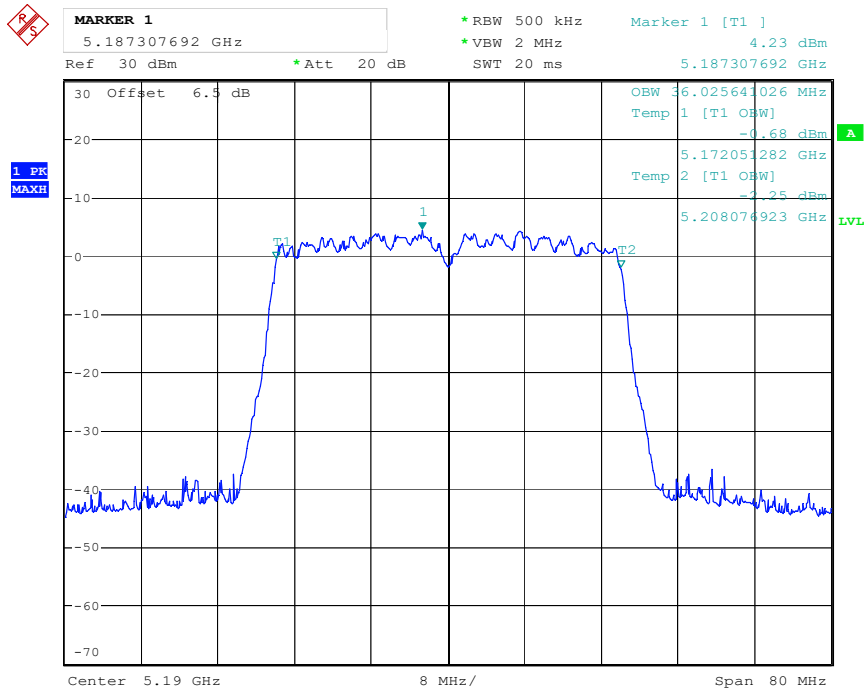
Date: 30.APR.2021 19:46:25

802.11n-HT20 mode, 99% Occupied Bandwidth -5240 MHz



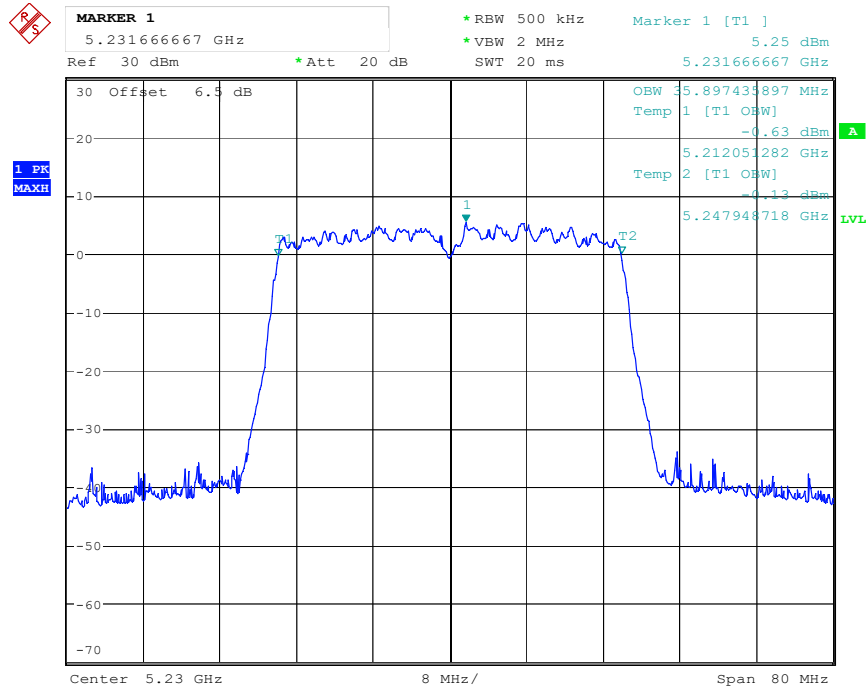
Date: 30.APR.2021 19:46:01

802.11n-HT40 mode, 99% Occupied Bandwidth-5190 MHz



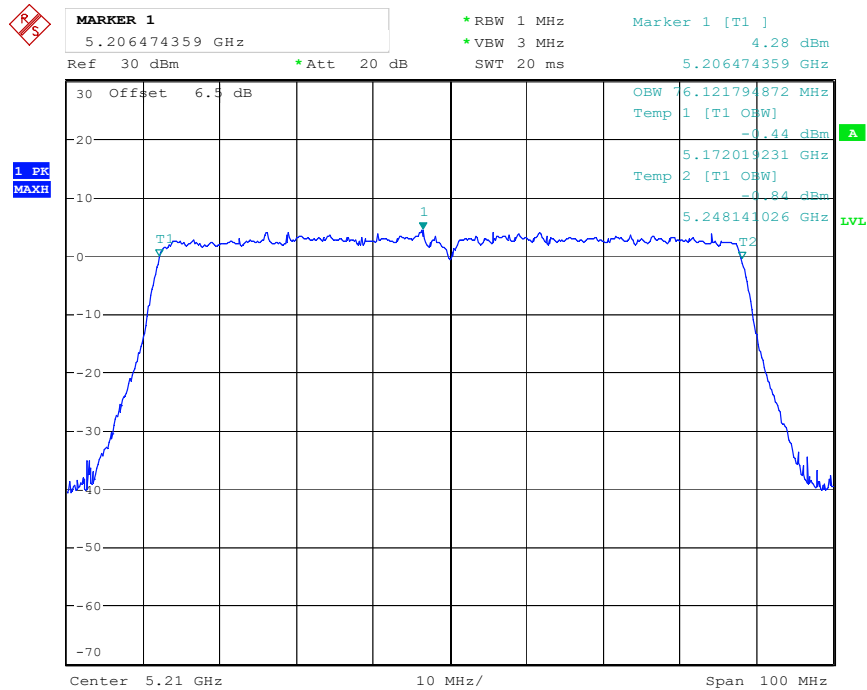
Date: 30.APR.2021 19:45:29

802.11n-HT40 mode, 99% Occupied Bandwidth-5230 MHz



Date: 30.APR.2021 19:45:03

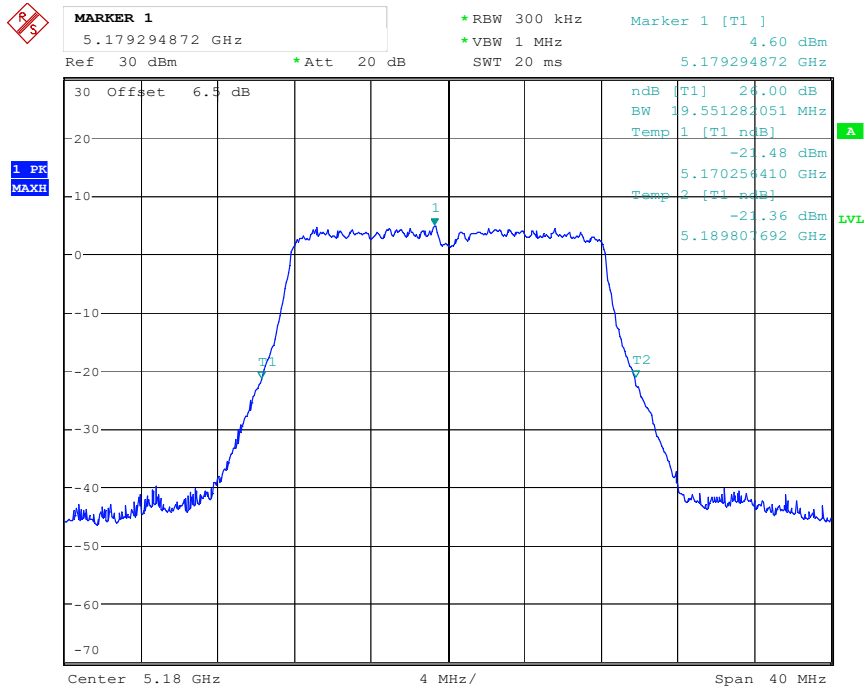
802.11ac80 mode, 99% Occupied Bandwidth-5210 MHz



Date: 30.APR.2021 19:44:29

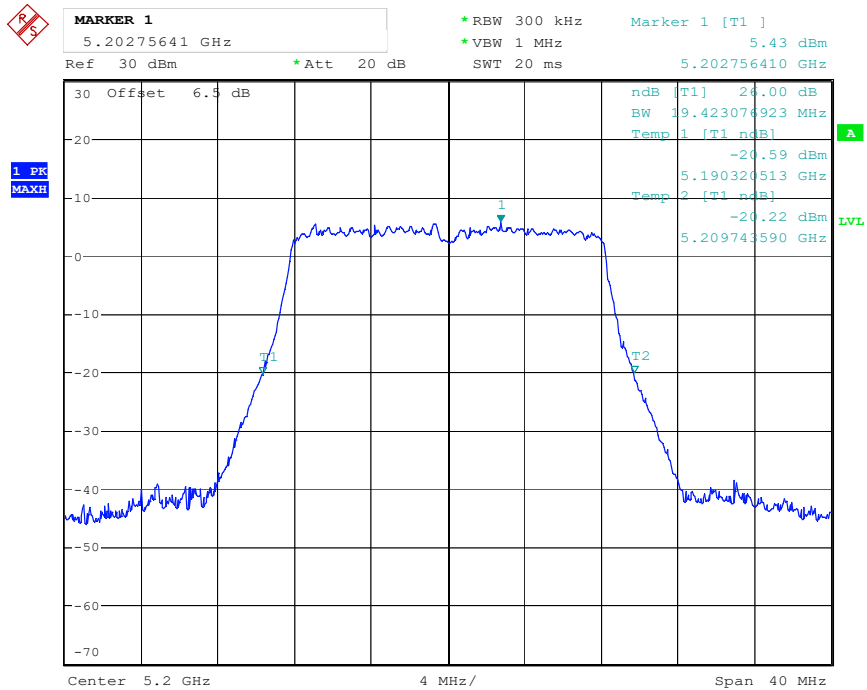
Chain 1

802.11a mode, 26 dB Bandwidth-5180 MHz



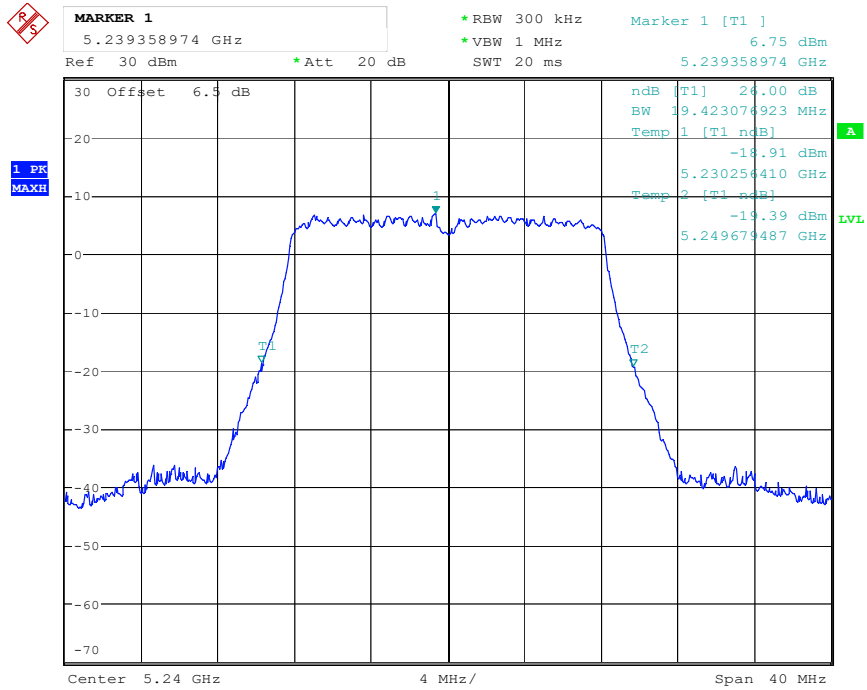
Date: 30.APR.2021 19:27:35

802.11a mode, 26 dB Bandwidth-5200 MHz



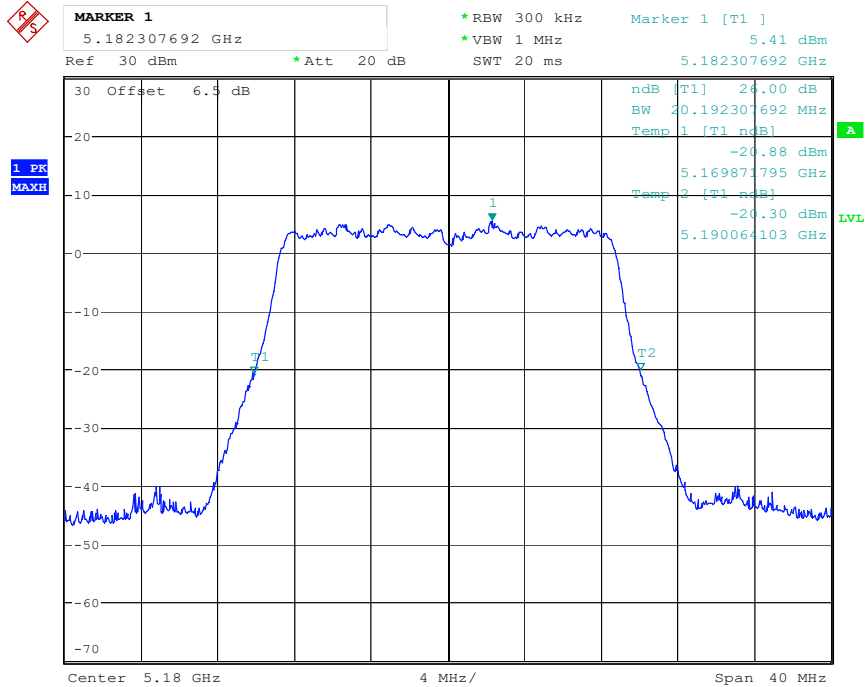
Date: 30.APR.2021 19:27:08

802.11a mode, 26 dB Bandwidth-5240 MHz



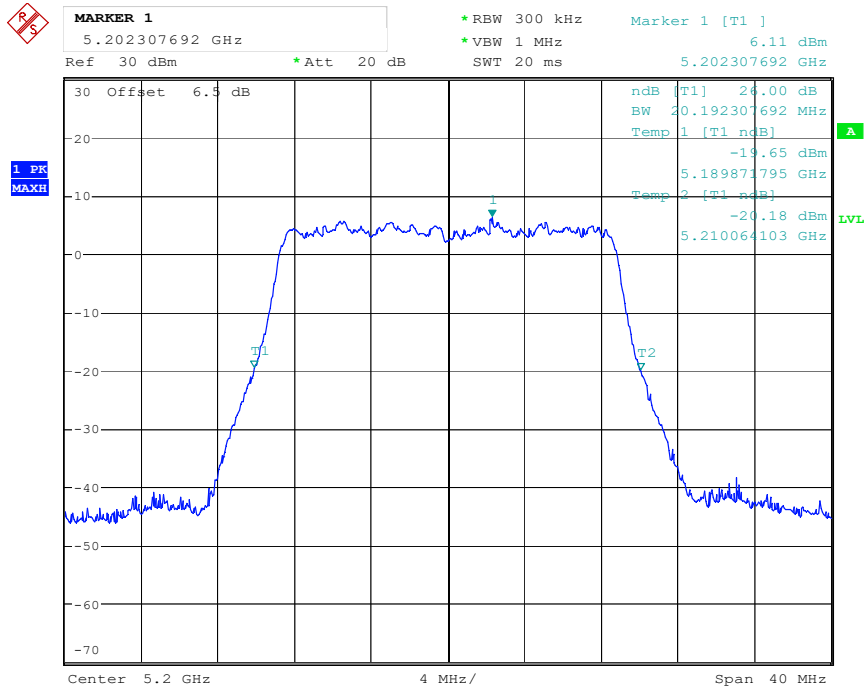
Date: 30.APR.2021 19:26:39

802.11n-HT20 mode, 26 dB Bandwidth-5180 MHz



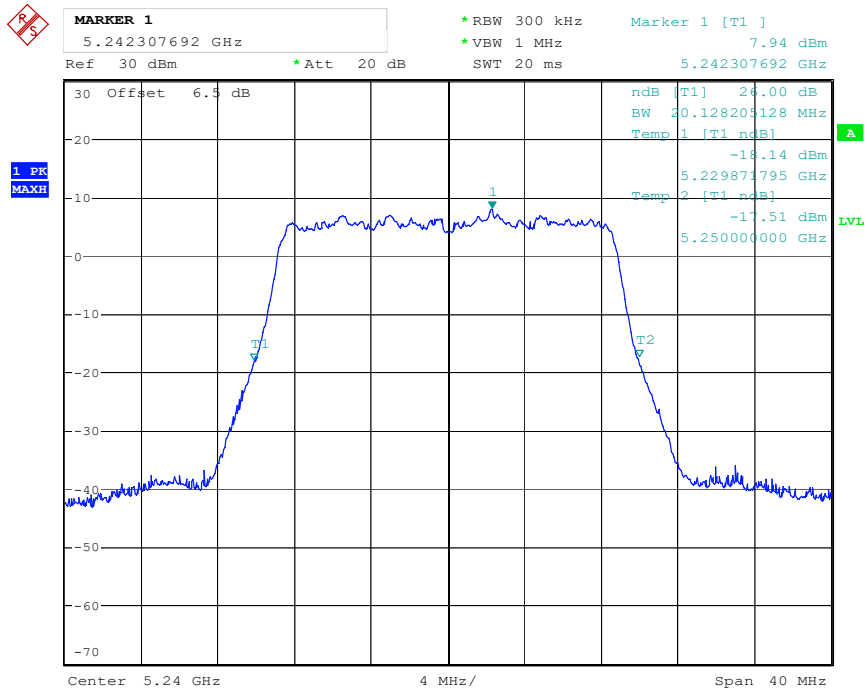
Date: 30.APR.2021 19:25:18

802.11n-HT20 mode, 26 dB Bandwidth-5200 MHz



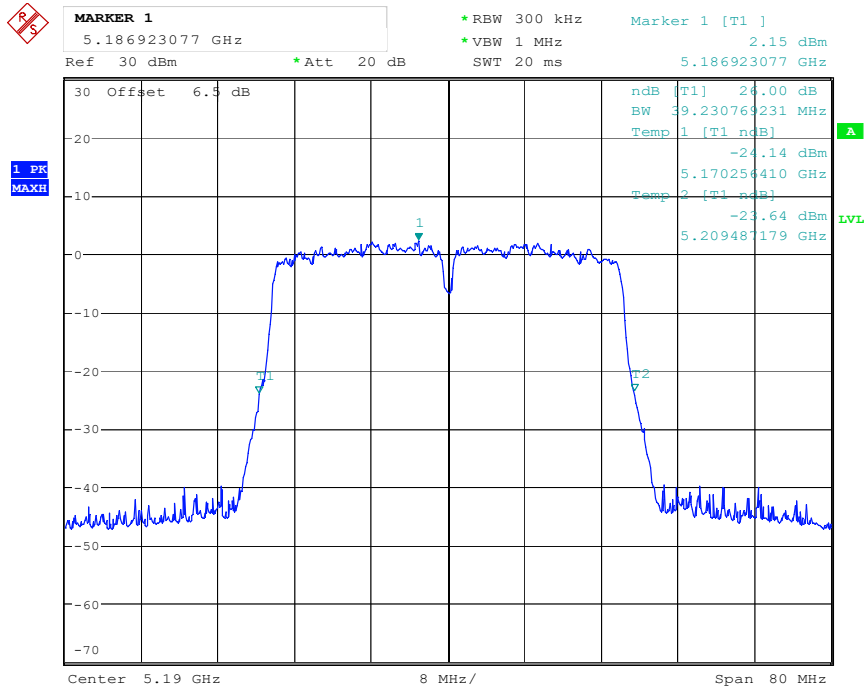
Date: 30.APR.2021 19:25:38

802.11n-HT20 mode, 26 dB Bandwidth-5240 MHz

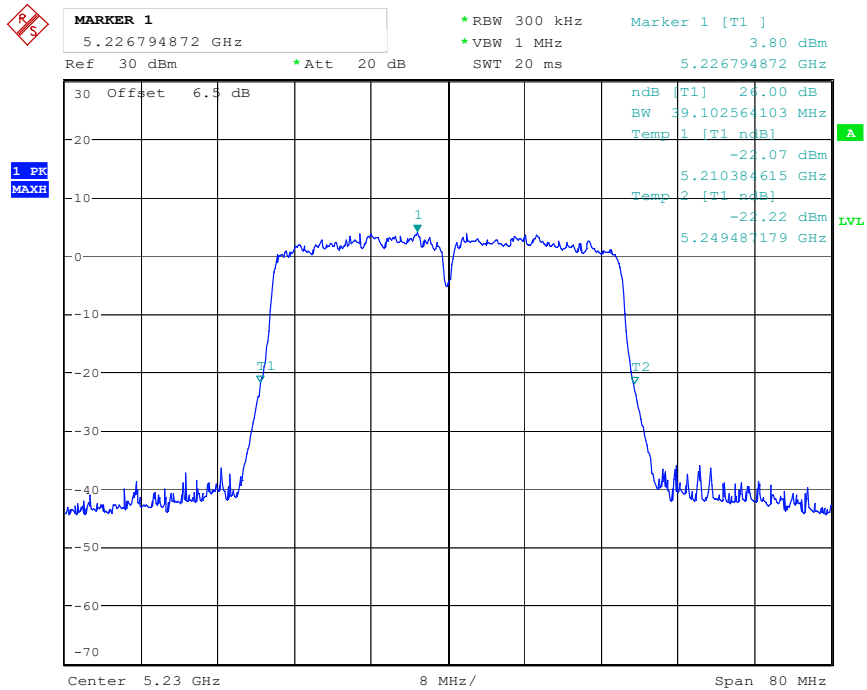


Date: 30.APR.2021 19:26:03

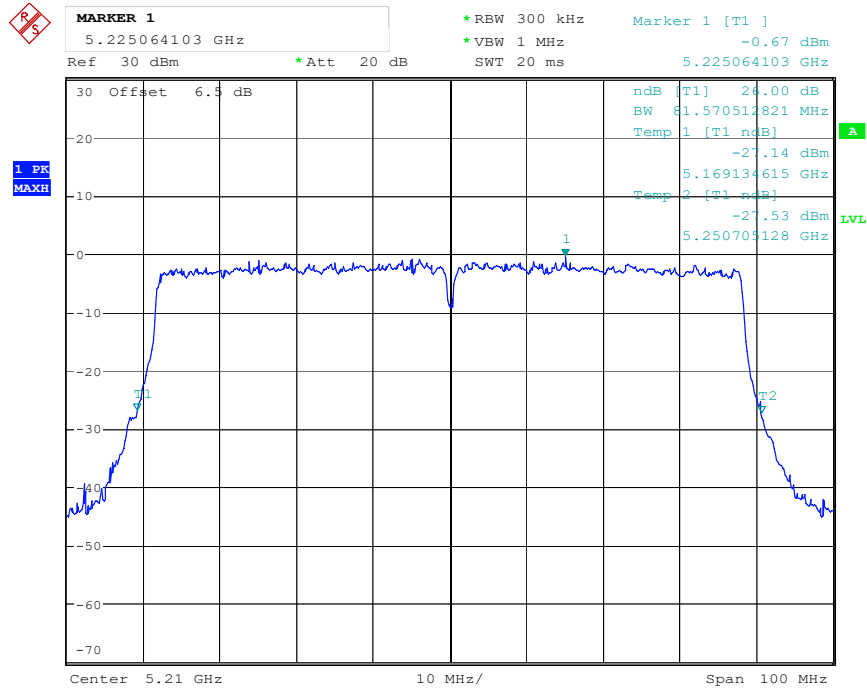
802.11n-HT40 mode, 26 dB Bandwidth-5190 MHz



802.11n-HT40 mode, 26 dB Bandwidth-5230 MHz

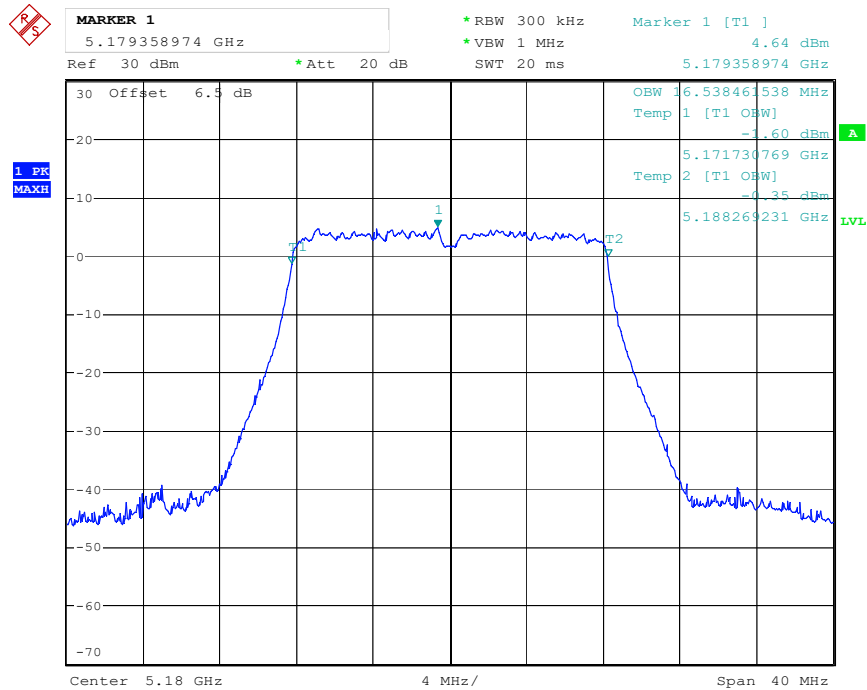


802.11ac80 mode, 26 dB Bandwidth-5210 MHz



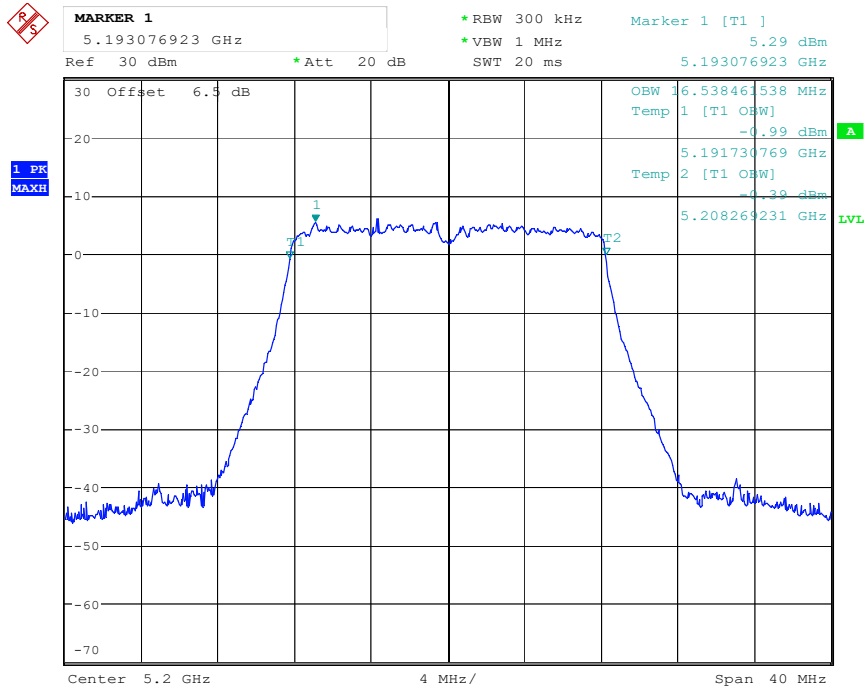
Date: 30.APR.2021 19:23:49

802.11a mode, 99% Occupied Bandwidth-5180 MHz



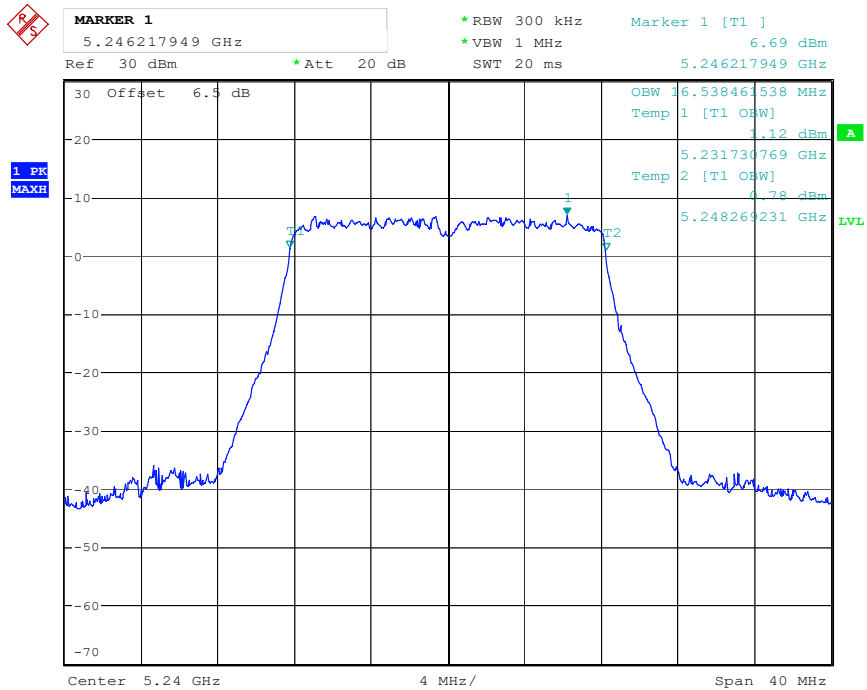
Date: 30.APR.2021 19:29:30

802.11a mode, 99% Occupied Bandwidth -5200 MHz



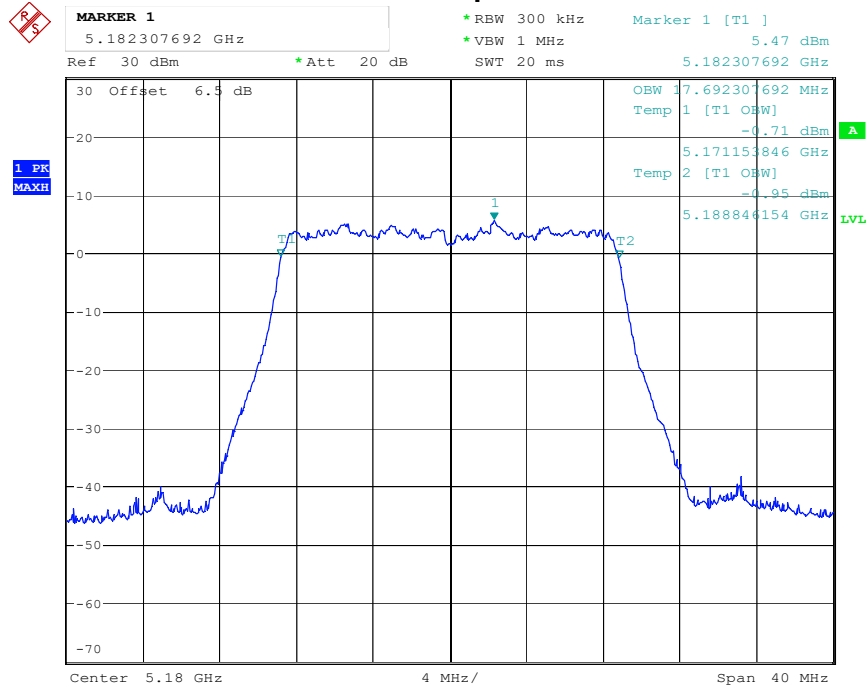
Date: 30.APR.2021 19:36:17

802.11a mode, 99% Occupied Bandwidth -5240 MHz

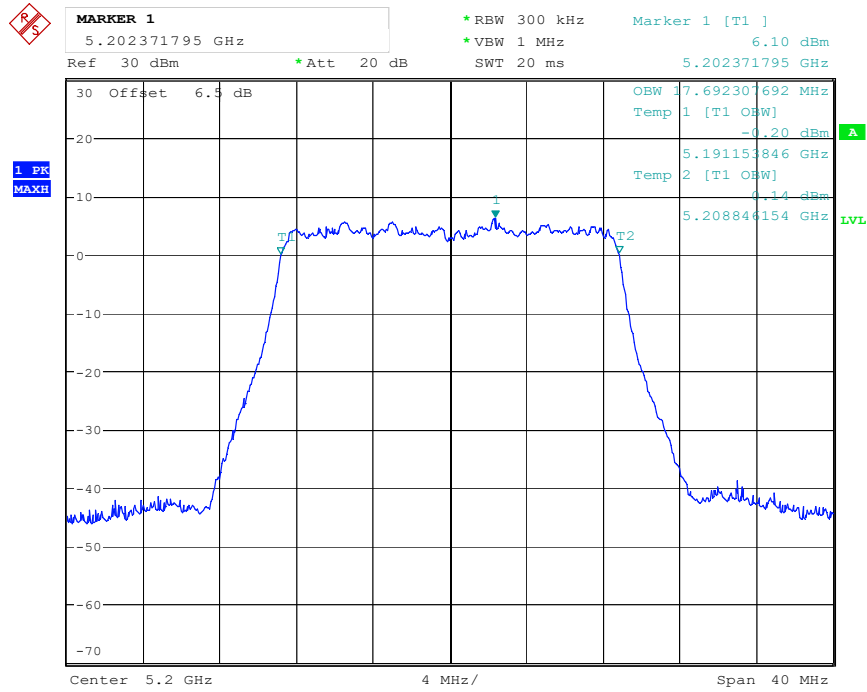


Date: 30.APR.2021 19:36:42

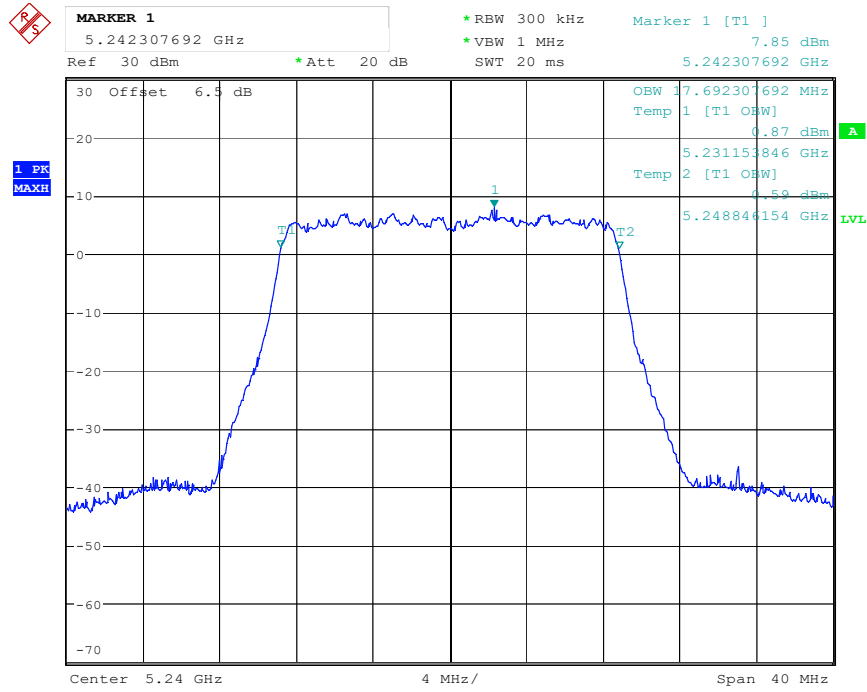
802.11n-HT20 mode, 99% Occupied Bandwidth-5180 MHz



802.11n-HT20 mode, 99% Occupied Bandwidth -5200 MHz

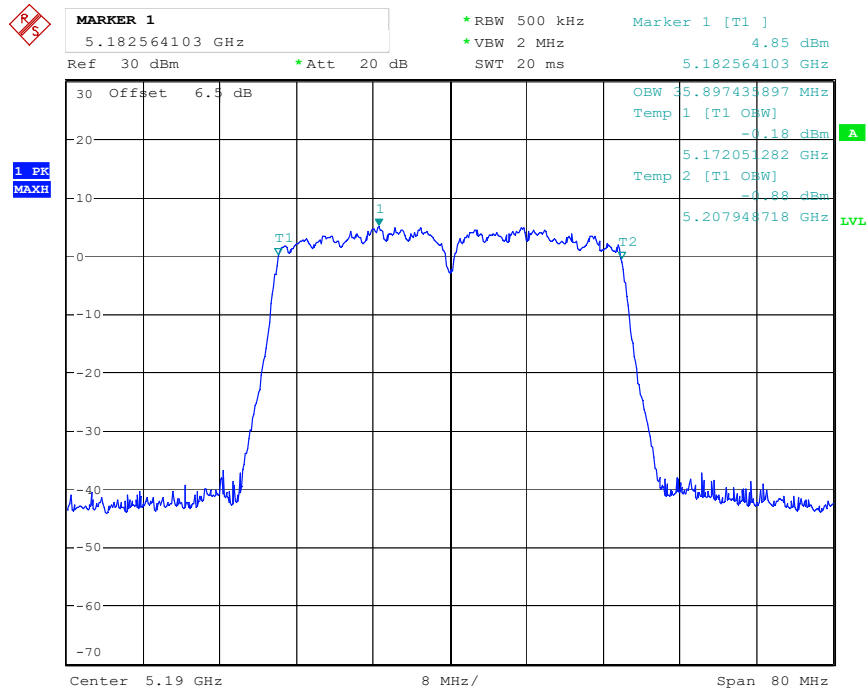


802.11n-HT20 mode, 99% Occupied Bandwidth -5240 MHz



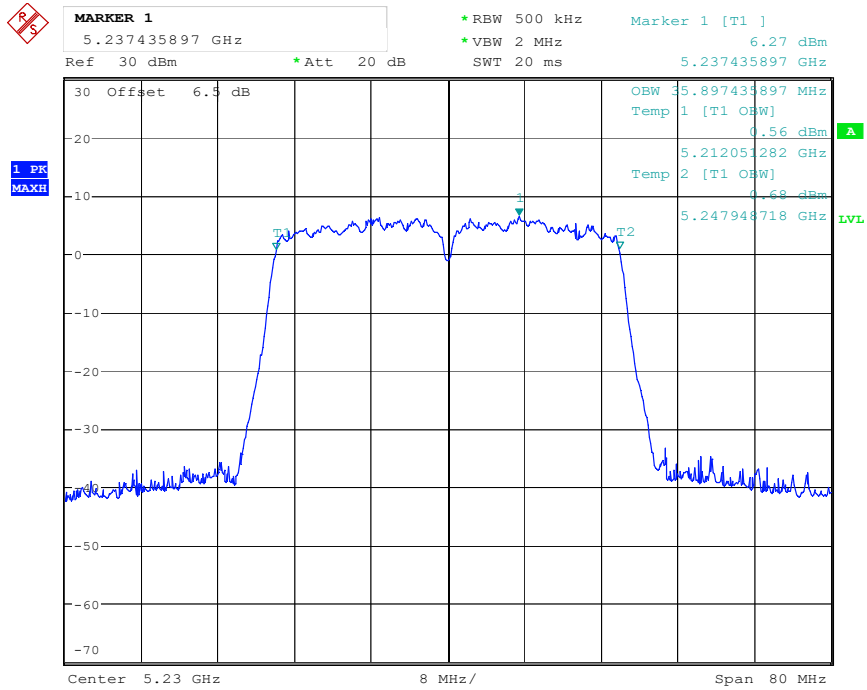
Date: 30.APR.2021 19:37:07

802.11n-HT40 mode, 99% Occupied Bandwidth-5190 MHz



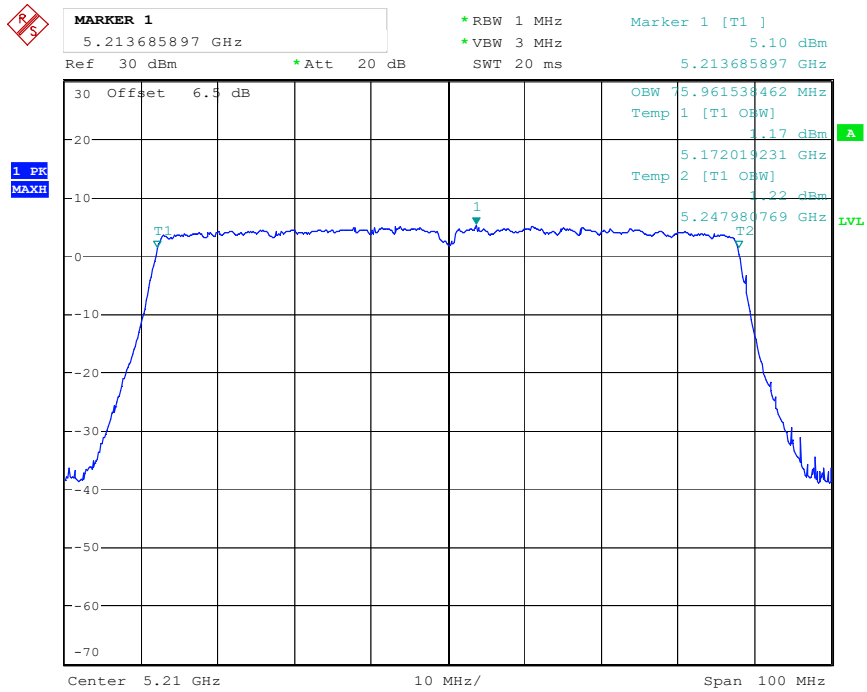
Date: 30.APR.2021 19:39:25

802.11n-HT40 mode, 99% Occupied Bandwidth-5230 MHz



Date: 30.APR.2021 19:40:00

802.11ac80 mode, 99% Occupied Bandwidth-5210 MHz



Date: 30.APR.2021 19:40:39

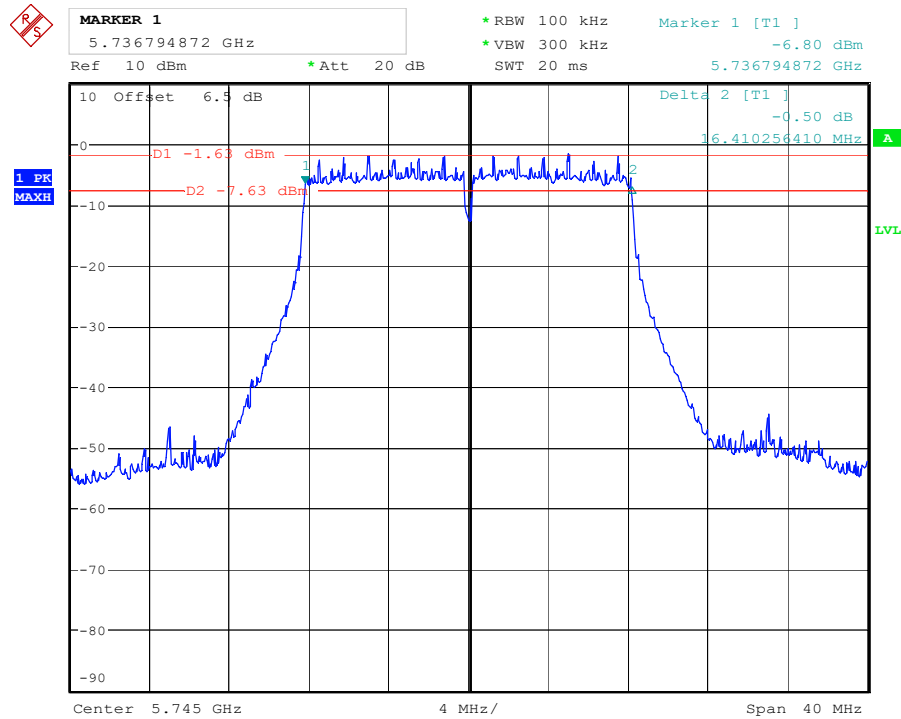
For 5725-5850 MHz:

| Mode | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | 99% Occupied Bandwidth (MHz) | | 6dB Bandwidth Limit (MHz) |
|--------------|---------|-----------------|---------------------|---------|------------------------------|---------|---------------------------|
| | | | Chain 0 | Chain 1 | Chain 0 | Chain 1 | |
| 802.11a | Low | 5745 | 16.41 | 16.47 | 16.54 | 16.54 | ≥0.50 |
| | Middle | 5785 | 16.41 | 16.47 | 16.54 | 16.54 | ≥0.50 |
| | High | 5825 | 16.41 | 16.41 | 16.54 | 16.54 | ≥0.50 |
| 802.11n-HT20 | Low | 5745 | 17.69 | 17.56 | 17.69 | 17.63 | ≥0.50 |
| | Middle | 5785 | 17.69 | 17.50 | 17.69 | 17.56 | ≥0.50 |
| | High | 5825 | 17.69 | 17.50 | 17.69 | 17.69 | ≥0.50 |
| 802.11n-HT40 | Low | 5755 | 35.90 | 35.90 | 36.03 | 36.03 | ≥0.50 |
| | High | 5795 | 35.64 | 35.77 | 36.03 | 36.03 | ≥0.50 |
| 802.11ac80 | Middle | 5775 | 76.57 | 76.44 | 76.15 | 75.90 | ≥0.50 |

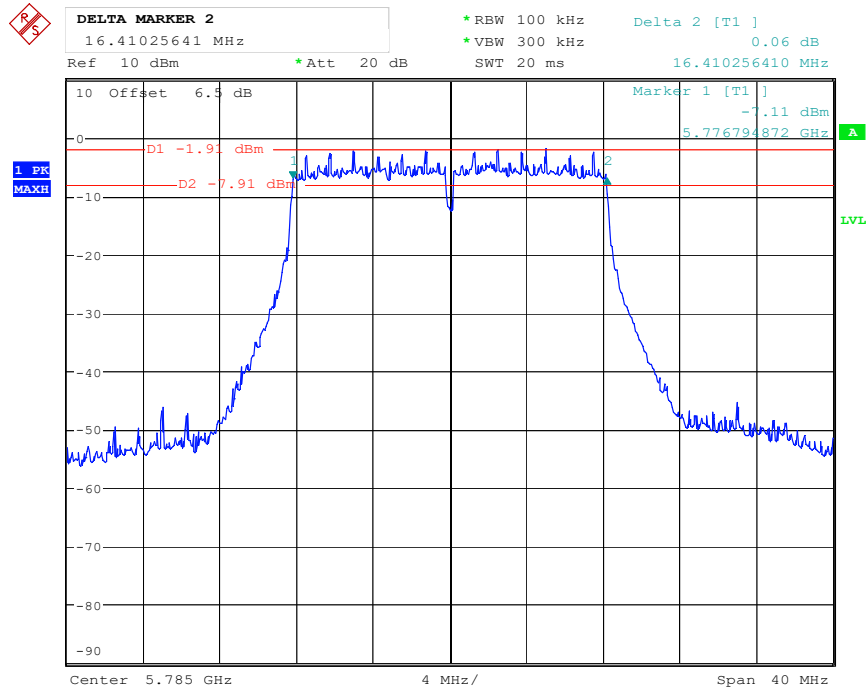
Note: The 99% Occupied Bandwidth doesn't extend U-NII-2C band 5470-5725MHz.

Chain 0

802.11a mode, 6 dB Bandwidth-5745 MHz

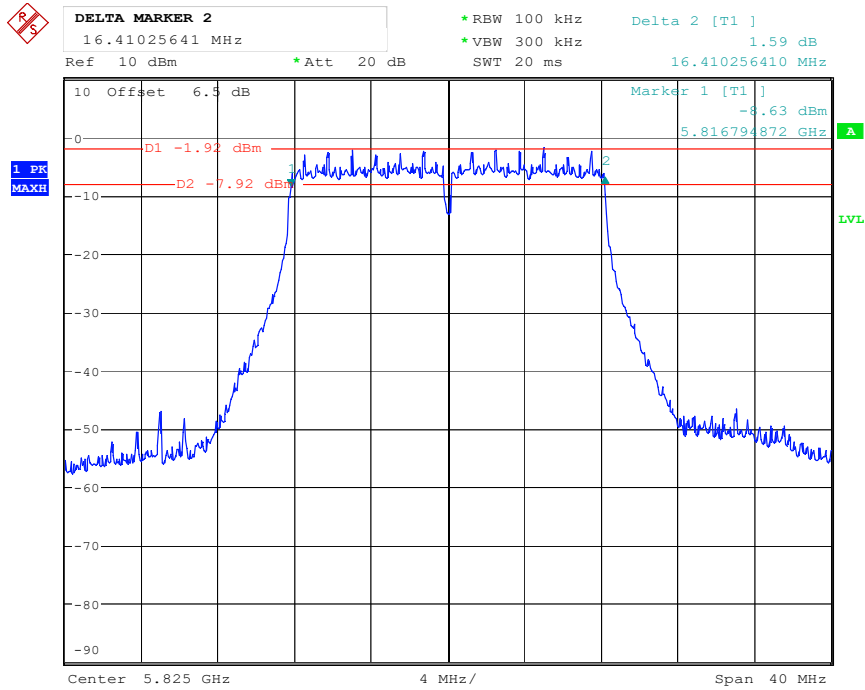


802.11a mode, 6 dB Bandwidth-5785 MHz



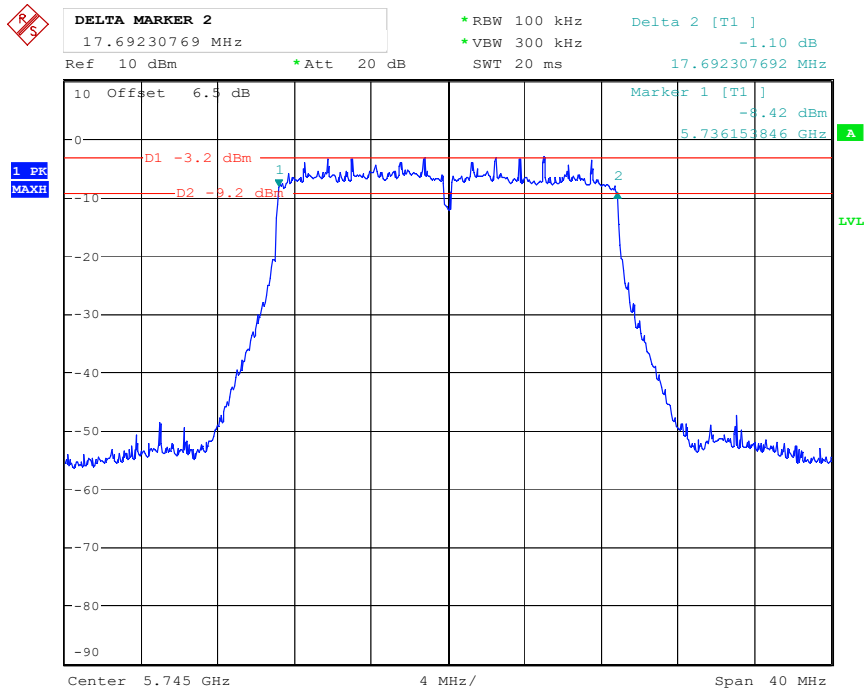
Date: 7.MAY.2021 09:03:21

802.11a mode, 6 dB Bandwidth-5825 MHz



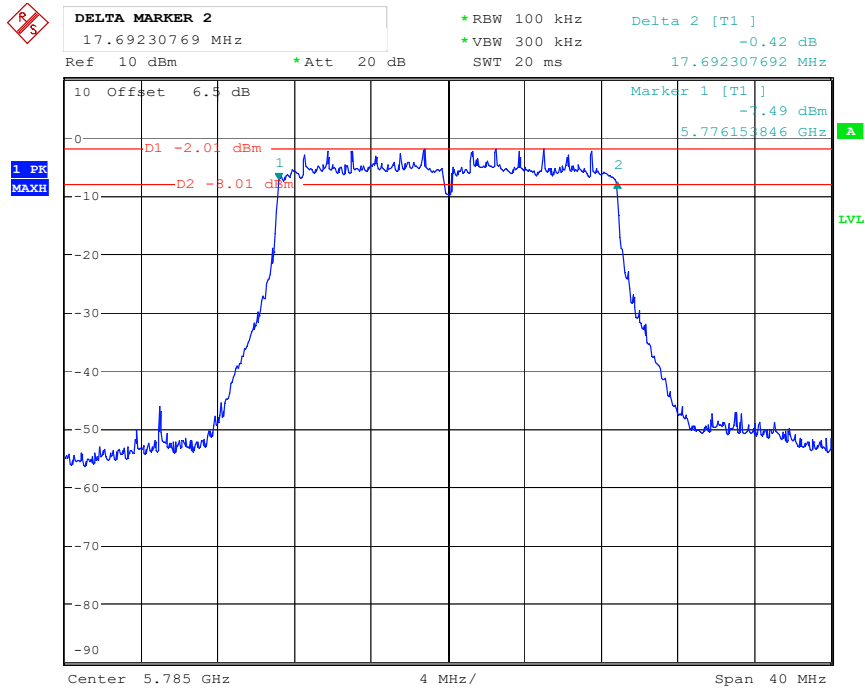
Date: 7.MAY.2021 09:04:29

802.11n-HT20 mode, 6 dB Bandwidth-5745 MHz



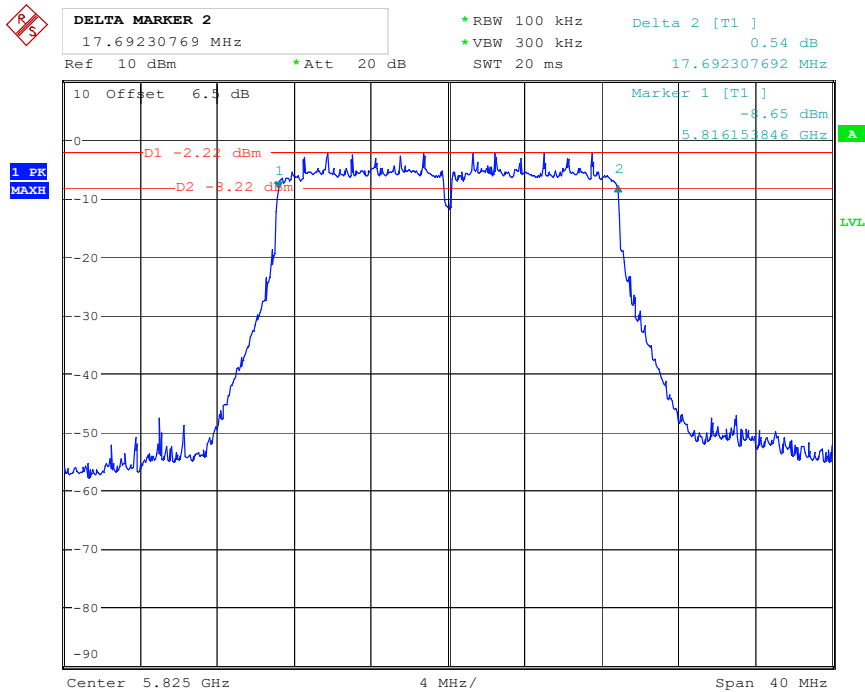
Date: 7.MAY.2021 09:06:53

802.11n-HT20 mode, 6 dB Bandwidth-5785 MHz



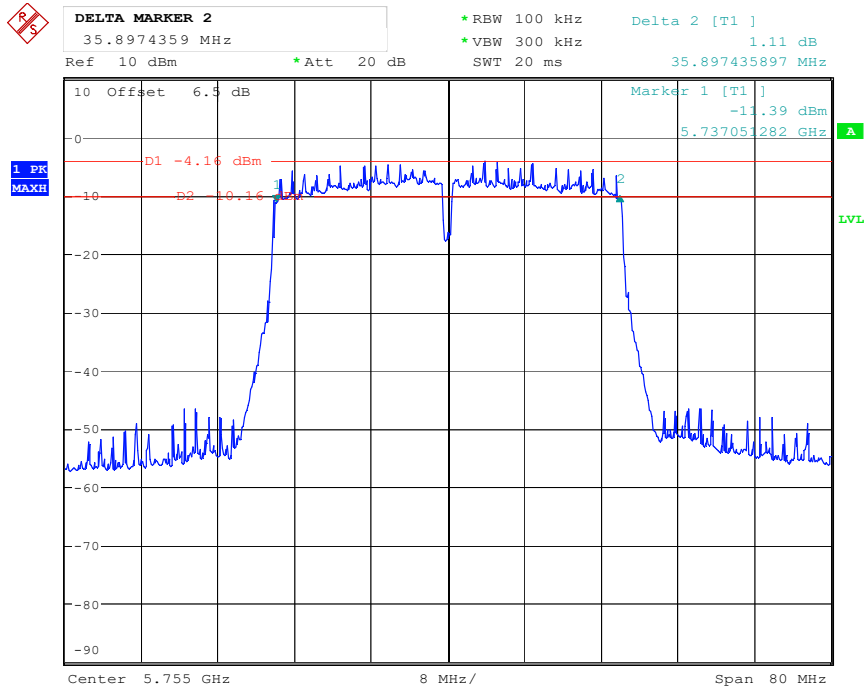
Date: 7.MAY.2021 09:07:50

802.11n-HT20 mode, 6 dB Bandwidth-5825 MHz



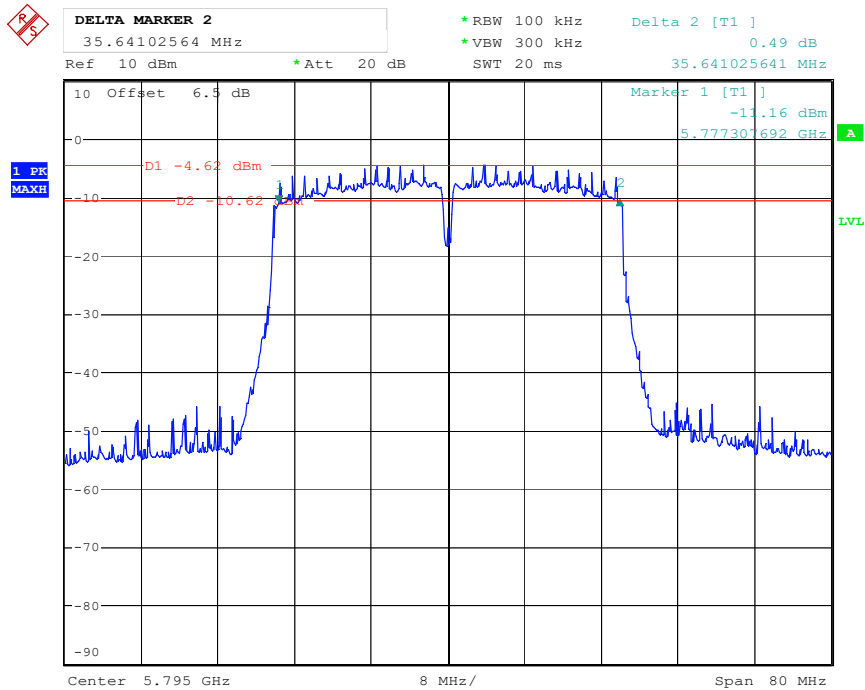
Date: 7.MAY.2021 09:08:47

802.11n-HT40 mode, 6 dB Bandwidth-5755 MHz



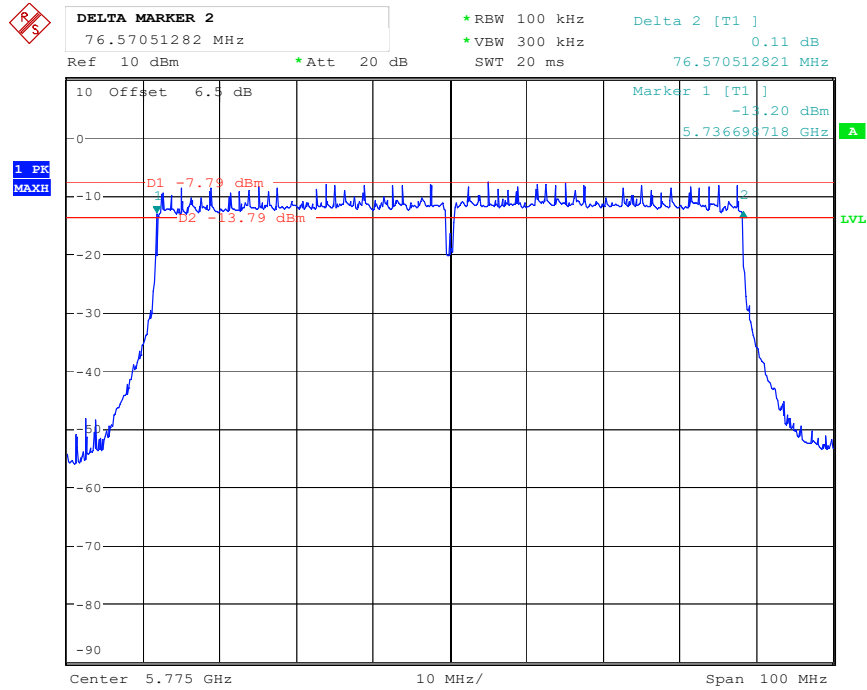
Date: 7.MAY.2021 09:10:05

802.11n-HT40 mode, 6 dB Bandwidth-5795 MHz



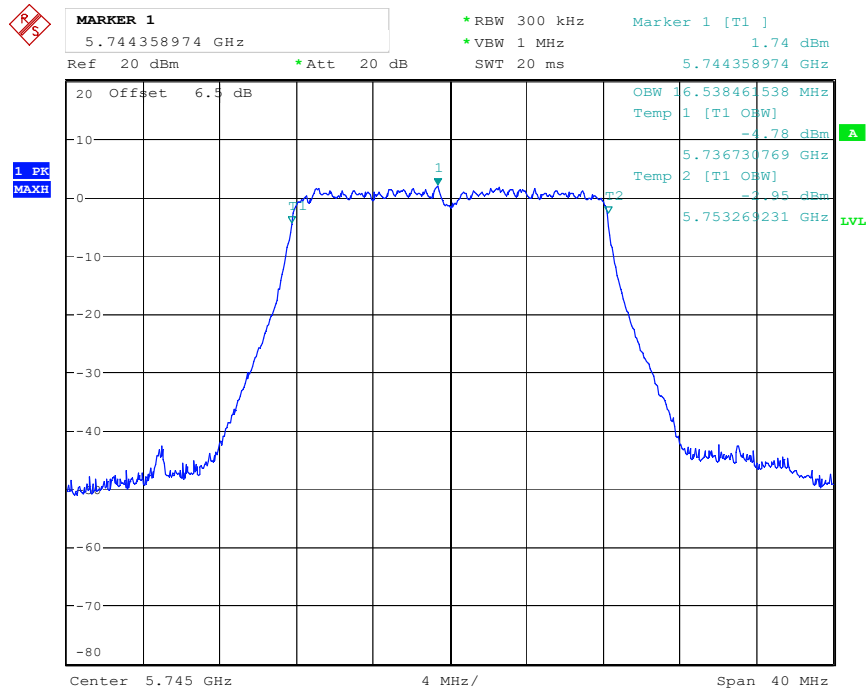
Date: 7.MAY.2021 09:11:07

802.11ac80 mode, 6 dB Bandwidth-5775 MHz



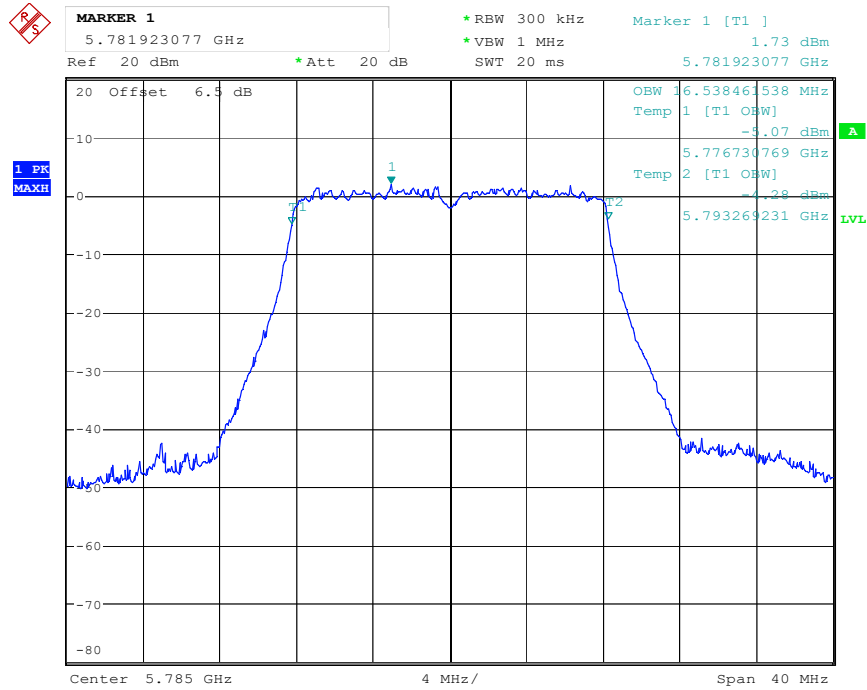
Date: 7.MAY.2021 09:12:55

802.11a mode, 99% Occupied Bandwidth-5745 MHz



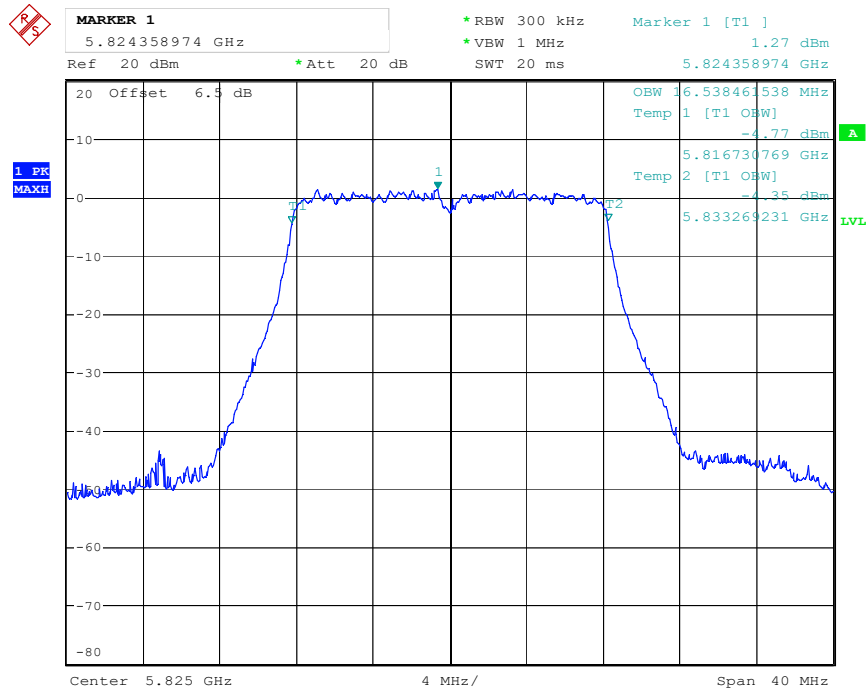
Date: 7.MAY.2021 12:50:37

802.11a mode, 99% Occupied Bandwidth -5785 MHz



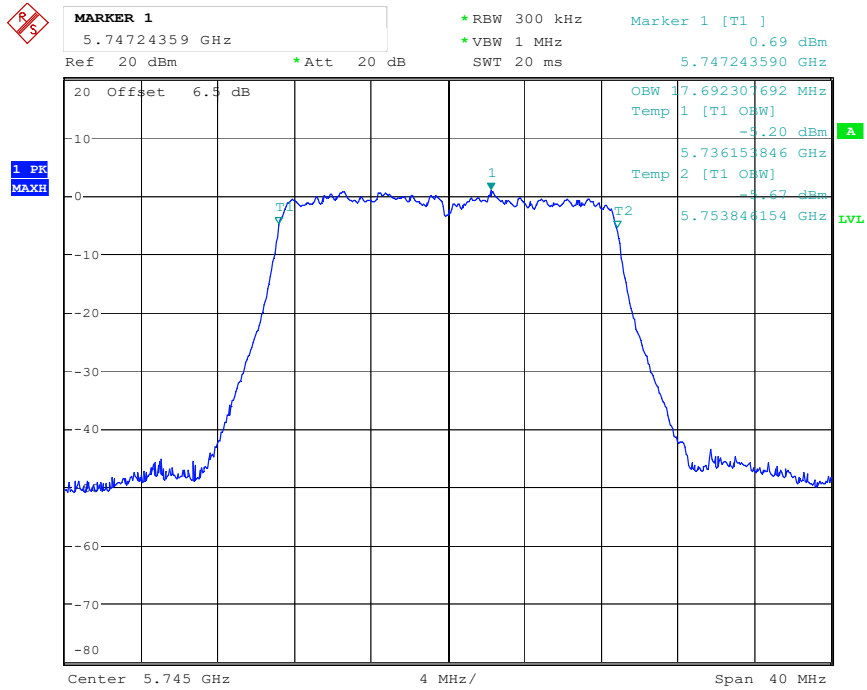
Date: 7.MAY.2021 12:51:06

802.11a mode, 99% Occupied Bandwidth -5825 MHz

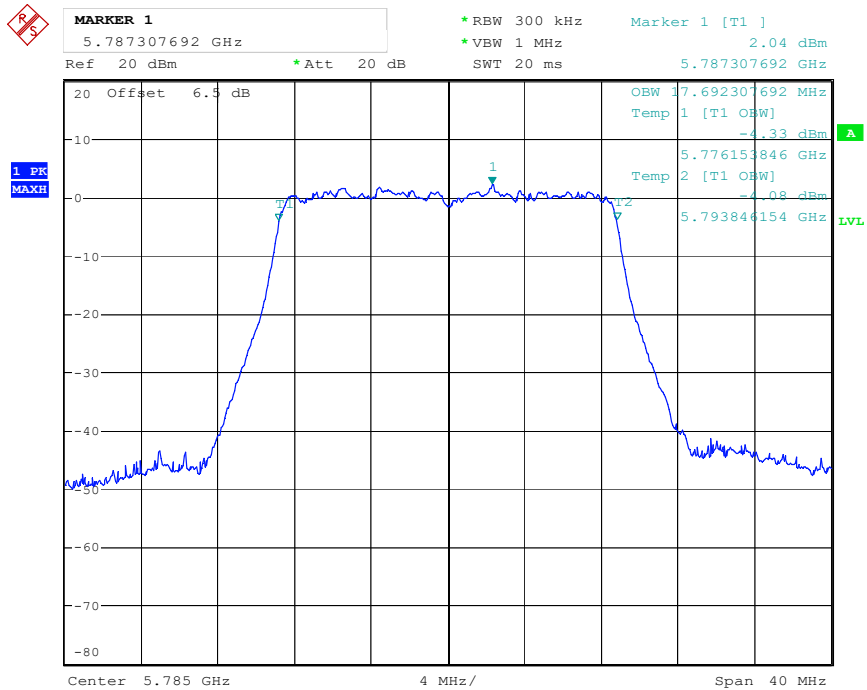


Date: 7.MAY.2021 12:51:38

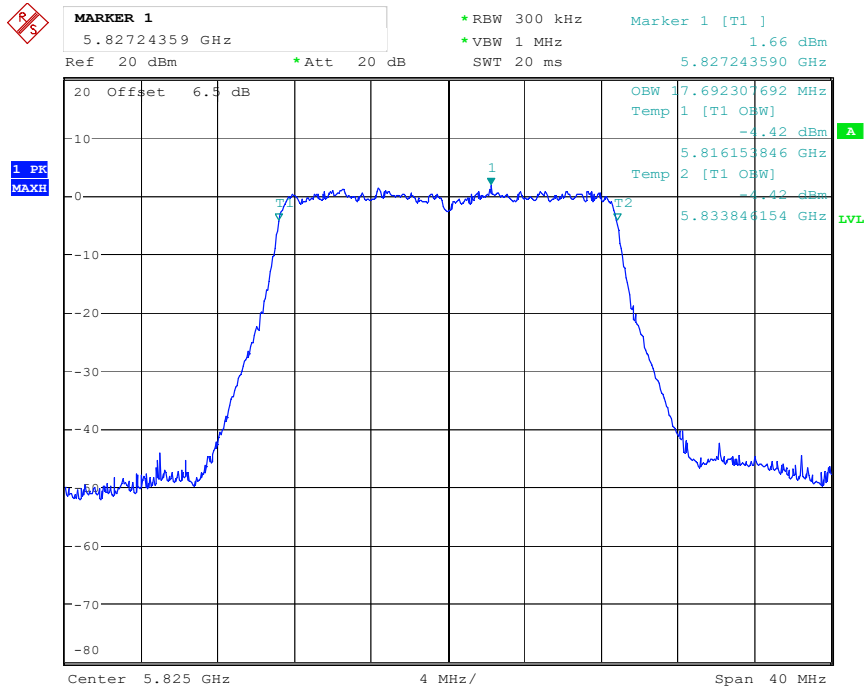
802.11n-HT20 mode, 99% Occupied Bandwidth-5745 MHz



802.11n-HT20 mode, 99% Occupied Bandwidth-5785 MHz

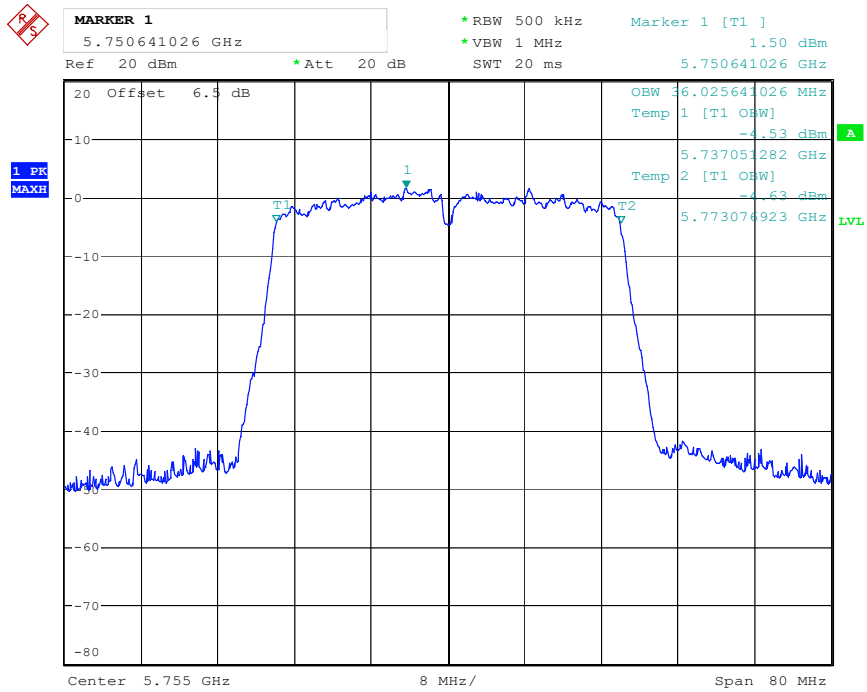


802.11n-HT20 mode, 99% Occupied Bandwidth-5825 MHz



Date: 7.MAY.2021 12:53:25

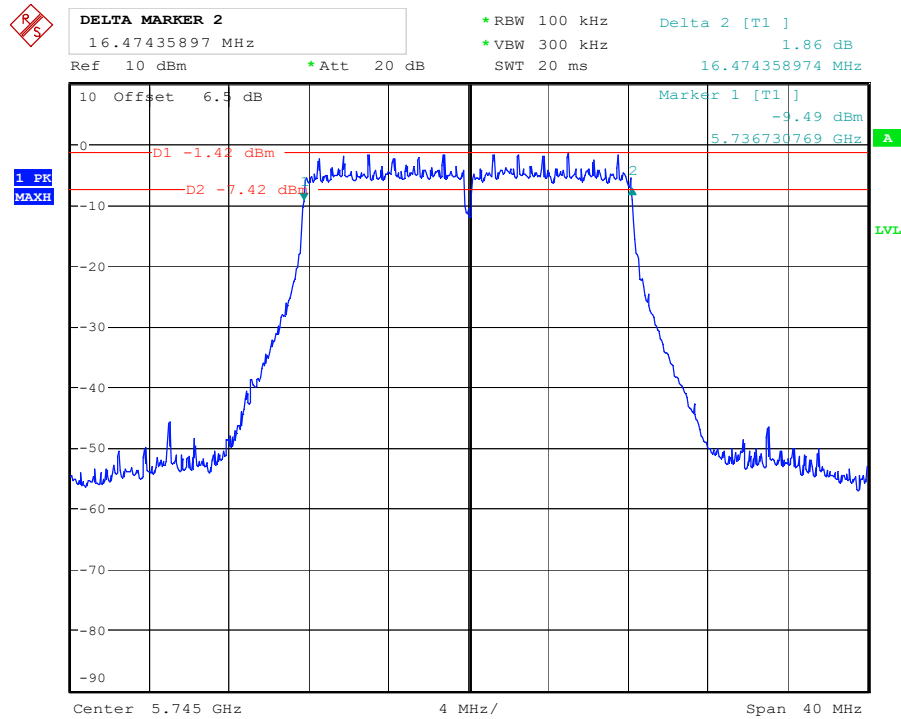
802.11n-HT40 mode, 99% Occupied Bandwidth-5755 MHz



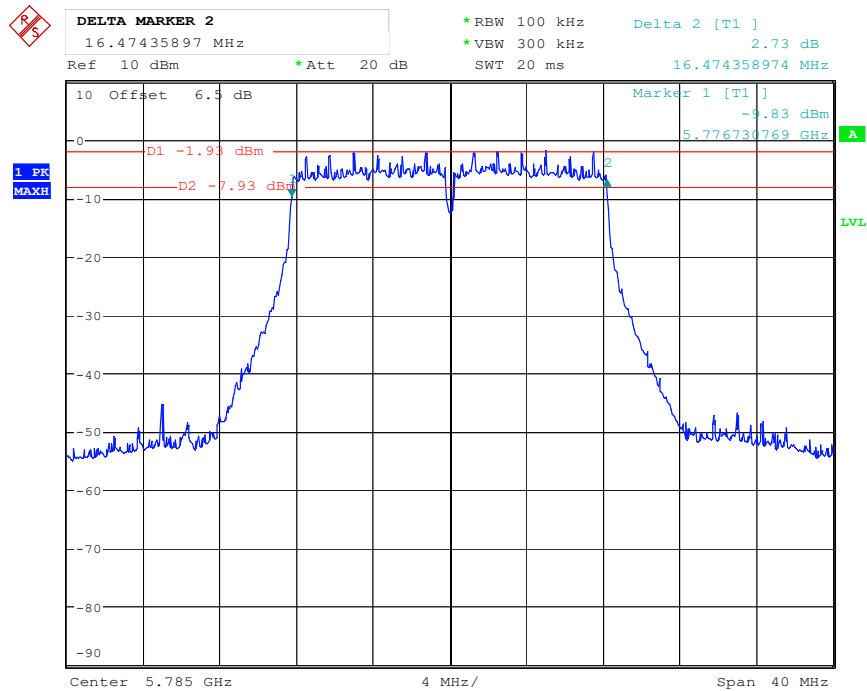
Date: 7.MAY.2021 12:54:04

Chain 1

802.11a mode, 6 dB Bandwidth-5745 MHz

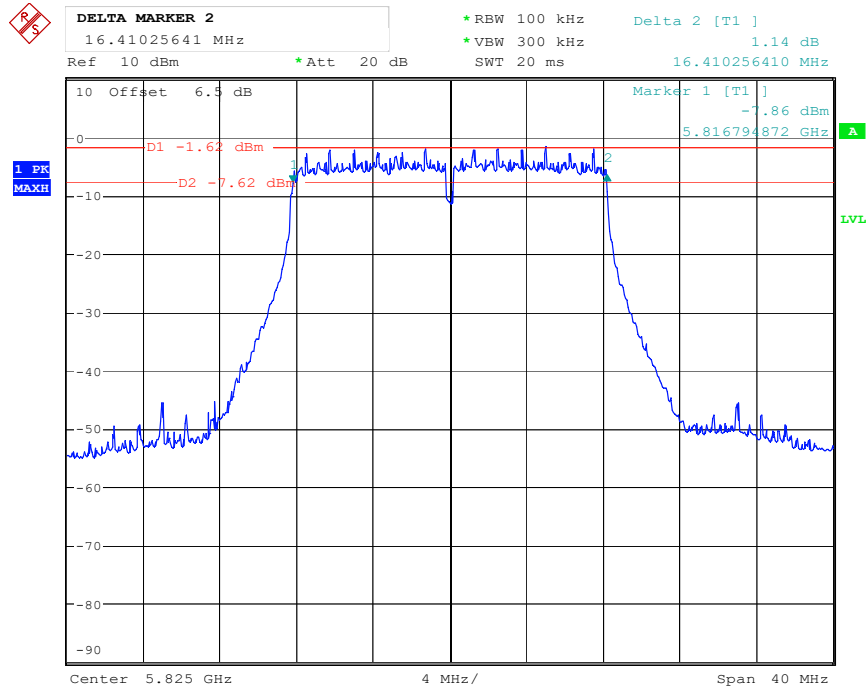


802.11a mode, 6 dB Bandwidth-5785 MHz



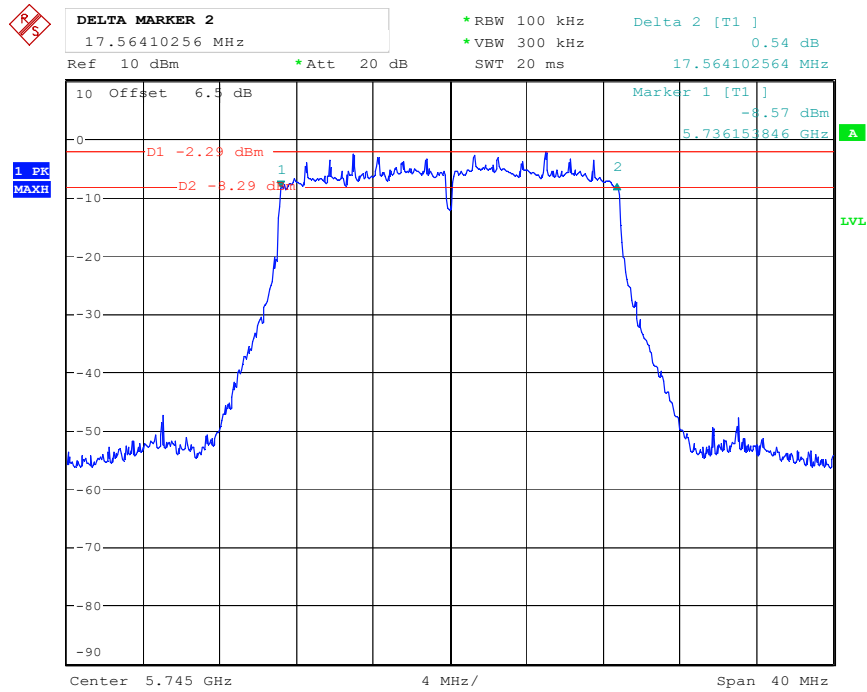
Date: 7.MAY.2021 09:27:42

802.11a mode, 6 dB Bandwidth-5825 MHz



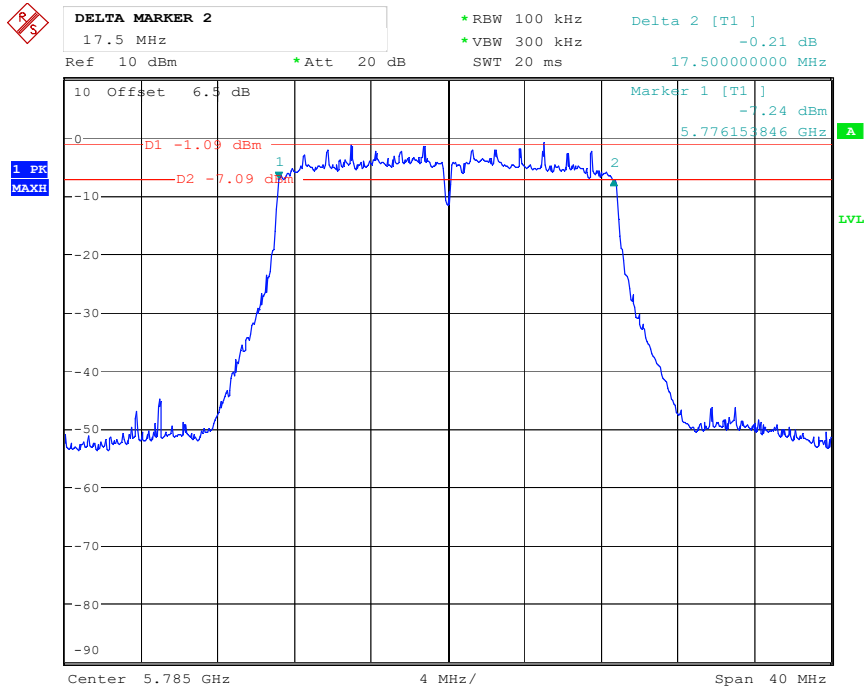
Date: 7.MAY.2021 09:49:54

802.11n-HT20 mode, 6 dB Bandwidth-5745 MHz



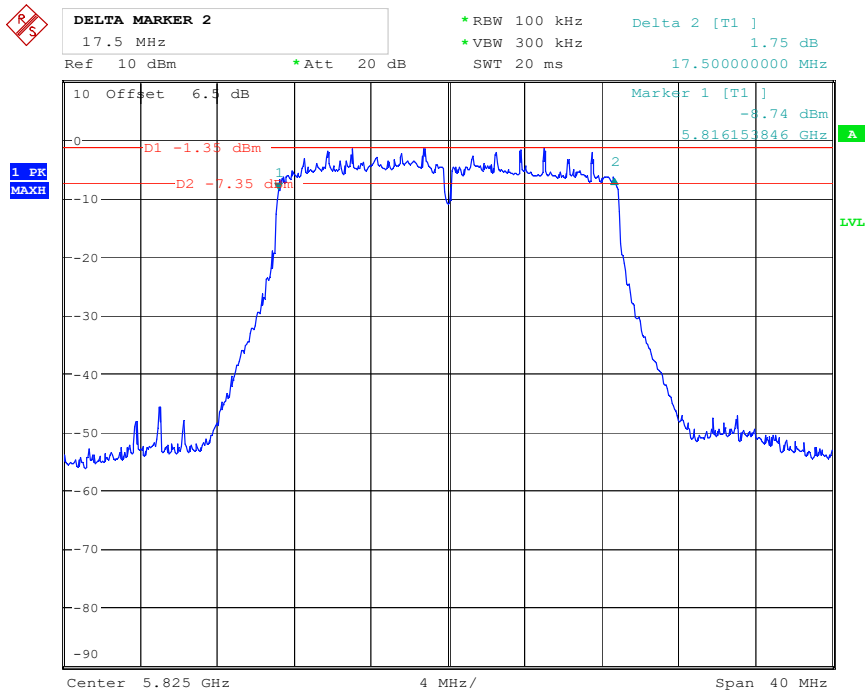
Date: 7.MAY.2021 10:11:51

802.11n-HT20 mode, 6 dB Bandwidth-5785 MHz



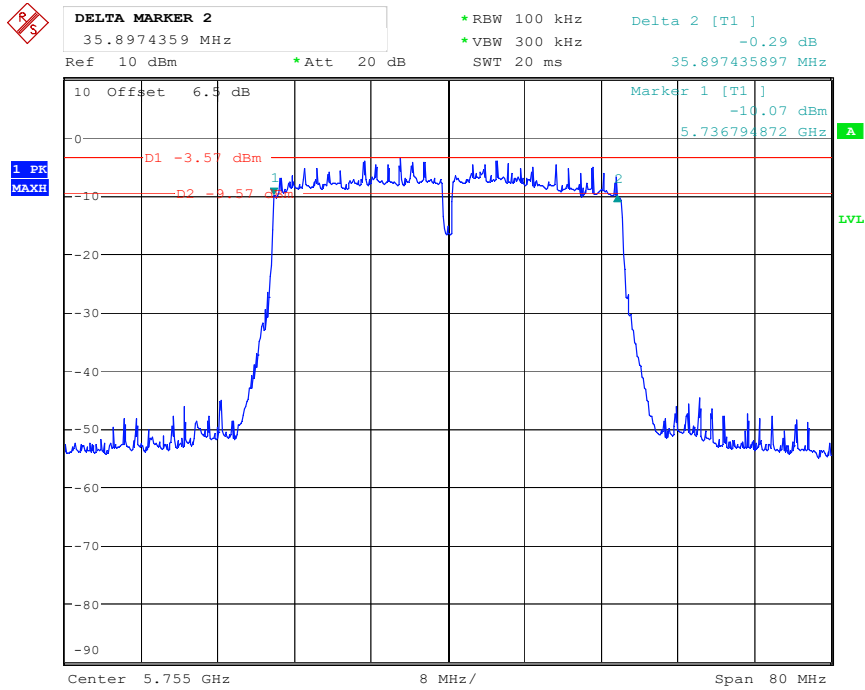
Date: 7.MAY.2021 10:44:48

802.11n-HT20 mode, 6 dB Bandwidth-5825 MHz



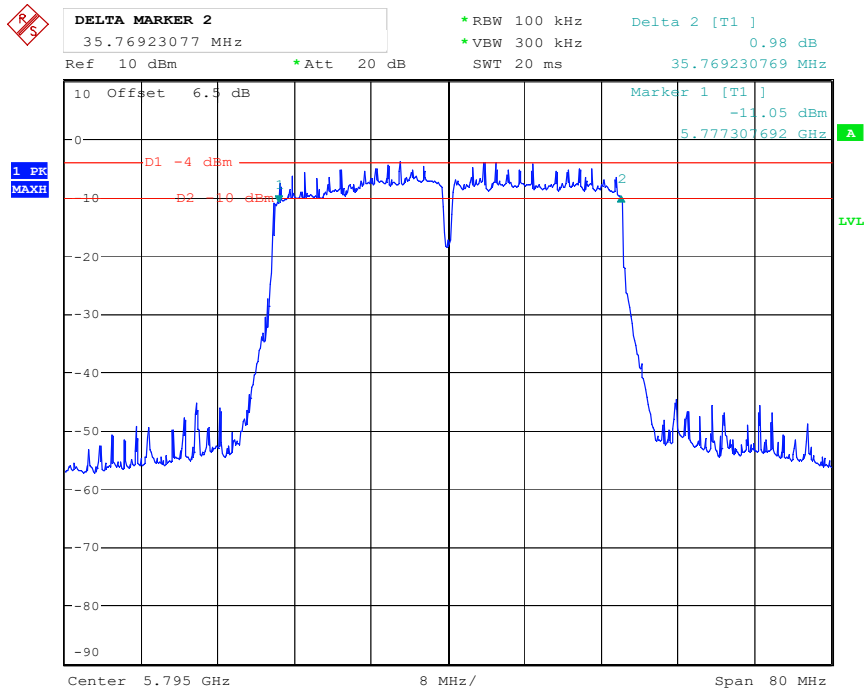
Date: 7.MAY.2021 12:15:23

802.11n-HT40 mode, 6 dB Bandwidth-5755 MHz



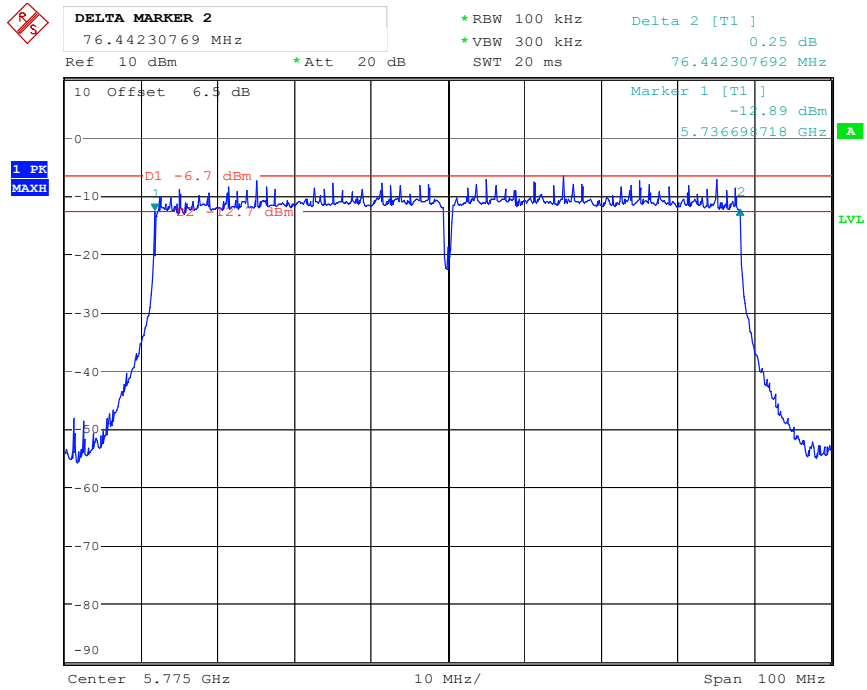
Date: 7.MAY.2021 12:18:24

802.11n-HT40 mode, 6 dB Bandwidth-5795 MHz



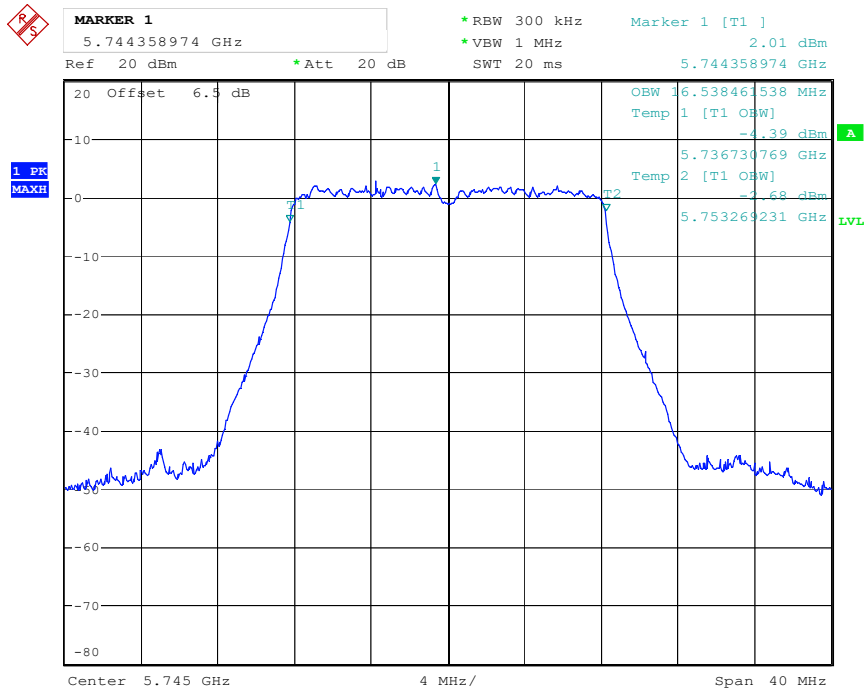
Date: 7.MAY.2021 12:20:49

802.11ac80 mode, 6 dB Bandwidth-5775 MHz



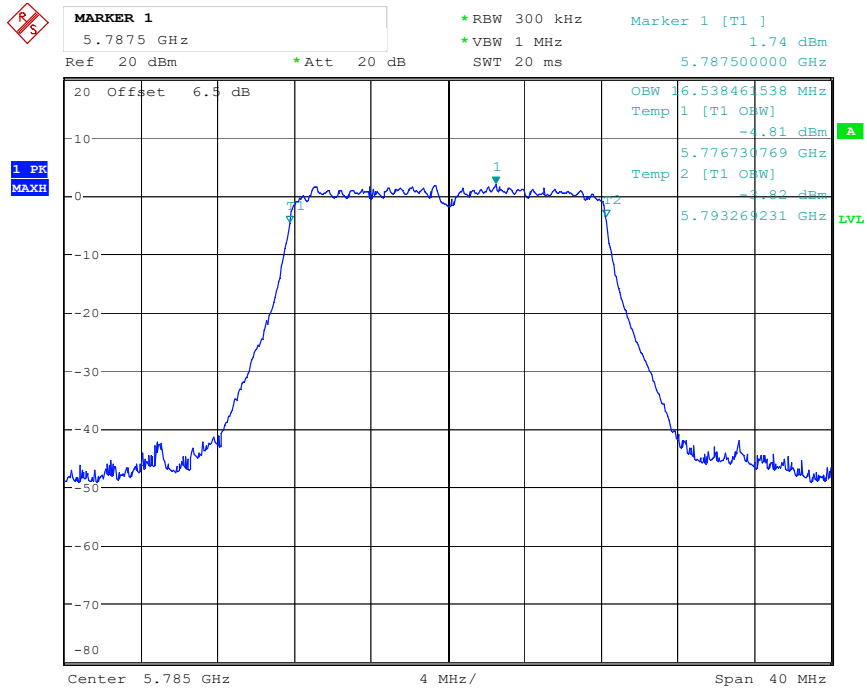
Date: 7.MAY.2021 12:38:32

802.11a mode, 99% Occupied Bandwidth-5745 MHz



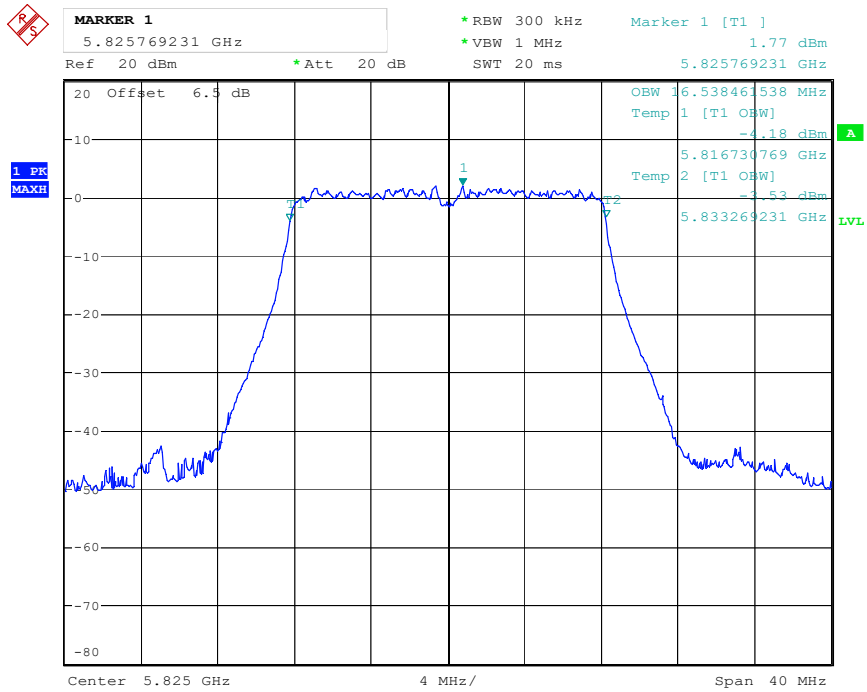
Date: 7.MAY.2021 12:40:43

802.11a mode, 99% Occupied Bandwidth -5785 MHz



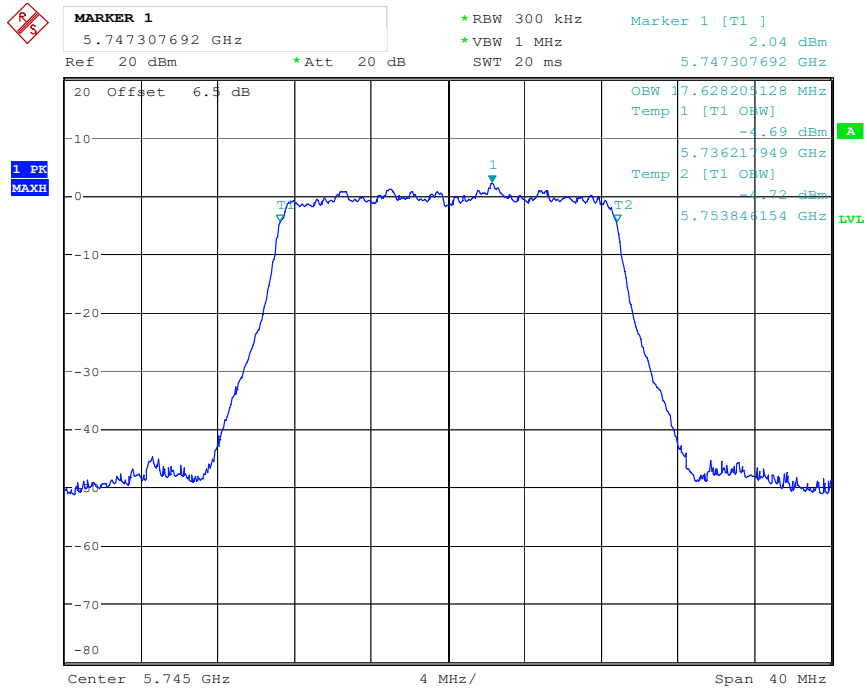
Date: 7.MAY.2021 12:41:57

802.11a mode, 99% Occupied Bandwidth -5825 MHz



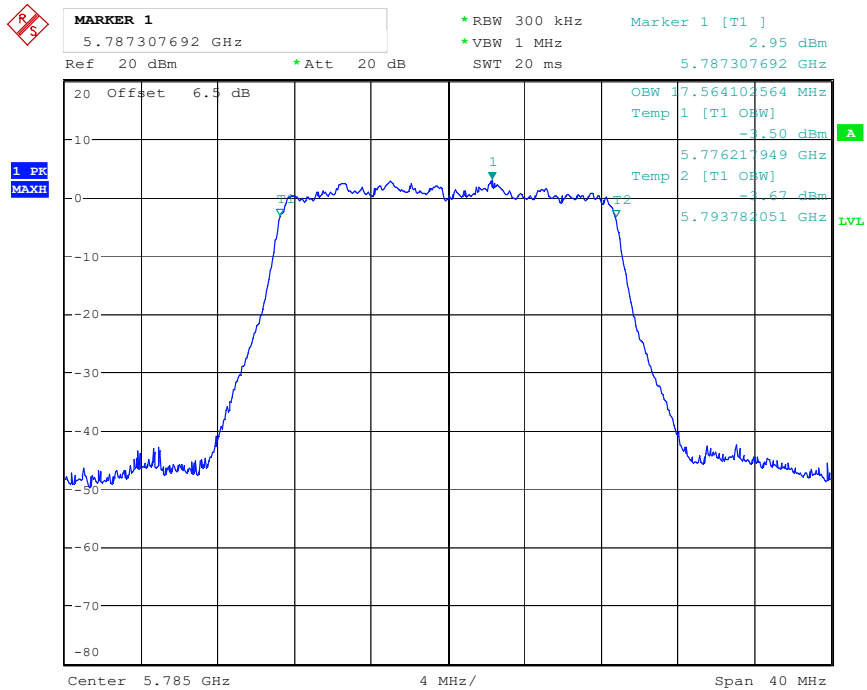
Date: 7.MAY.2021 12:42:44

802.11n-HT20 mode, 99% Occupied Bandwidth-5745 MHz



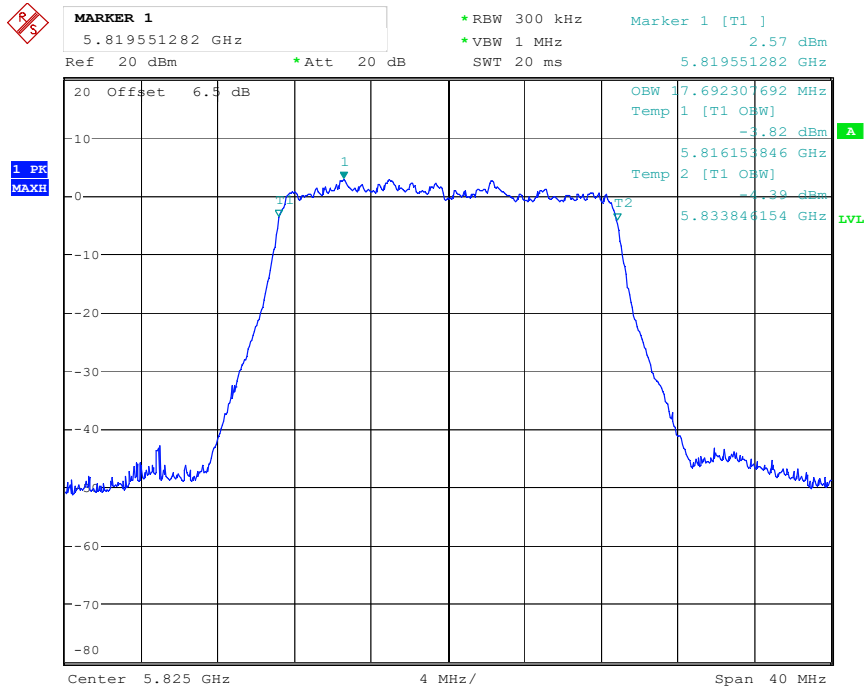
Date: 7.MAY.2021 12:43:26

802.11n-HT20 mode, 99% Occupied Bandwidth-5785 MHz



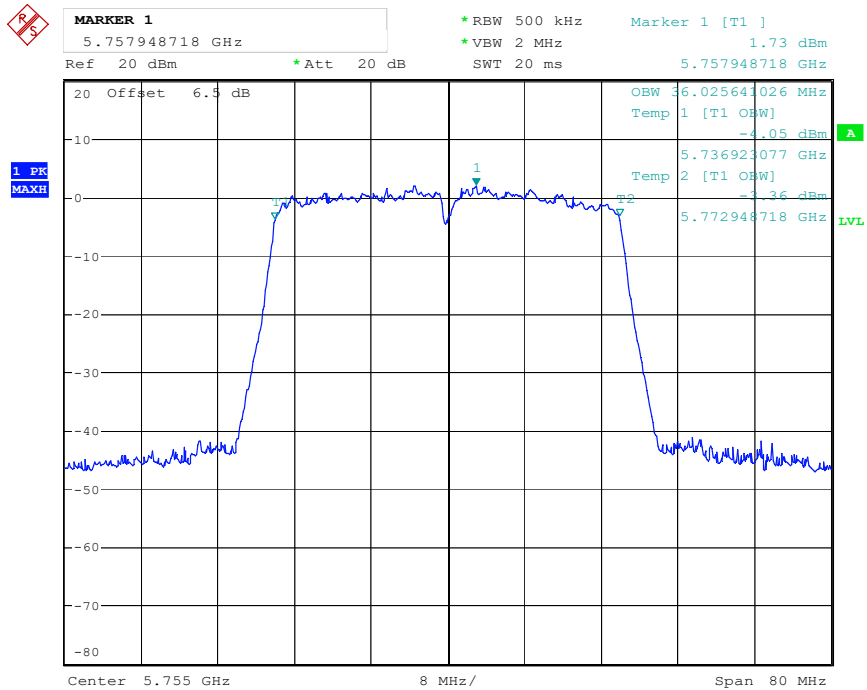
Date: 7.MAY.2021 12:43:57

802.11n-HT20 mode, 99% Occupied Bandwidth-5825 MHz



Date: 7.MAY.2021 12:44:31

802.11n-HT40 mode, 99% Occupied Bandwidth-5755 MHz



Date: 7.MAY.2021 12:45:30

FCC §15.407(a) (1)(IV), (3), (4) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

NOTE TO PARAGRAPH (A)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Procedure

According to 789033 D02 General UNII Test Procedures New Rules v02r01

Test Data

Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 26 °C |
| Relative Humidity: | 47 % |
| ATM Pressure: | 95.8 kPa |

The testing was performed by Winfred Wang on 2021-05-07.

Test Mode: Transmitting

For 5150-5250 MHz:

| Mode | Frequency (MHz) | Conducted Average Power (dBm) | | Duty Cycle Factor (dB) | Corrected (dBm) | | Limit (dBm) |
|---------|-----------------|-------------------------------|---------|------------------------|-----------------|---------|-------------|
| | | Chain 0 | Chain 1 | | Chain 0 | Chain 1 | |
| 802.11a | 5745 | 10.46 | 11.07 | 0.18 | 10.64 | 11.25 | 24.00 |
| | 5785 | 10.88 | 11.88 | 0.18 | 11.06 | 12.06 | 24.00 |
| | 5825 | 12.11 | 13.24 | 0.18 | 12.29 | 13.42 | 24.00 |

| Mode | Channel | Frequency (MHz) | Conducted Average Power (dBm) | | Duty Cycle Factor (dB) | Total (dBm) | Limit (dBm) |
|--------------|---------|-----------------|-------------------------------|---------|------------------------|-------------|-------------|
| | | | Chain 0 | Chain 1 | | | |
| 802.11n-HT20 | Low | 5180 | 11.05 | 11.15 | 0.11 | 14.22 | 24.00 |
| | Middle | 5200 | 11.01 | 11.91 | 0.11 | 14.60 | 24.00 |
| | High | 5240 | 12.18 | 13.36 | 0.11 | 15.93 | 24.00 |
| 802.11n-HT40 | Low | 5190 | 10.64 | 11.44 | 0.13 | 14.20 | 24.00 |
| | High | 5230 | 11.63 | 12.85 | 0.13 | 15.42 | 24.00 |
| 802.11ac 80 | Middle | 5210 | 10.33 | 11.32 | 0.73 | 14.59 | 24.00 |

Note:

1. The max antenna gain is 0.21 dBi
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:

Directional gain = $G_{ANT} + \text{Array Gain} = 0.21 < 6.0\text{dBi}$.

No power limit reduced in MIMO mode.

For 5725-5850 MHz:

| Mode | Frequency (MHz) | Conducted Average Power (dBm) | | Duty Cycle Factor (dB) | Corrected (dBm) | | Limit (dBm) |
|---------|-----------------|-------------------------------|---------|------------------------|-----------------|---------|-------------|
| | | Chain 0 | Chain 1 | | Chain 0 | Chain 1 | |
| 802.11a | 5745 | 7.84 | 7.69 | 0.18 | 8.02 | 7.87 | 30.00 |
| | 5785 | 7.47 | 7.30 | 0.18 | 7.65 | 7.48 | 30.00 |
| | 5825 | 7.19 | 7.11 | 0.18 | 7.37 | 7.29 | 30.00 |

| Mode | Channel | Frequency (MHz) | Conducted Average Power (dBm) | | Duty Cycle Factor (dB) | Total (dBm) | Limit (dBm) |
|--------------|---------|-----------------|-------------------------------|---------|------------------------|-------------|-------------|
| | | | Chain 0 | Chain 1 | | | |
| 802.11n-HT20 | Low | 5745 | 6.57 | 6.58 | 0.11 | 9.70 | 30.00 |
| | Middle | 5785 | 7.59 | 7.66 | 0.11 | 10.75 | 30.00 |
| | High | 5825 | 7.18 | 7.34 | 0.11 | 10.38 | 30.00 |
| 802.11n-HT40 | Low | 5755 | 7.23 | 7.63 | 0.13 | 10.57 | 30.00 |
| | High | 5795 | 7.27 | 7.26 | 0.13 | 10.41 | 30.00 |
| 802.11ac 80 | Middle | 5775 | 6.74 | 6.81 | 0.73 | 10.52 | 30.00 |

Note:

1. The max antenna gain is 0.02 dBi
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:

Directional gain = $G_{ANT} + \text{Array Gain} = 0.02 < 6.0\text{dBi}$.

No power limit was reduced in MIMO mode.

FCC §15.407(a) (1) (iv) (3) (5) - POWER SPECTRAL DENSITY

Applicable Standard

(a) Power limits:

- (1) For the band 5.15-5.25 GHz.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Test Data

Environmental Conditions

| | |
|---------------------------|----------|
| Temperature: | 26 °C |
| Relative Humidity: | 47 % |
| ATM Pressure: | 95.8 kPa |

The testing was performed by Winfred Wang on 2021-05-07.

Test Mode: Transmitting

For 5150-5250 MHz:

| Mode | Frequency (MHz) | Power Spectral Density (dBm/MHz) | | Limit (dBm/MHz) |
|---------|-----------------|----------------------------------|---------|-----------------|
| | | Chain 0 | Chain 1 | |
| 802.11a | 5180 | 2.31 | 2.52 | 11 |
| | 5200 | 2.66 | 3.32 | 11 |
| | 5240 | 3.90 | 4.71 | 11 |

| Mode | Frequency (MHz) | Power Spectral Density (dBm/MHz) | | Total (dBm/MHz) | Limit (dBm/MHz) |
|--------------|-----------------|----------------------------------|---------|-----------------|-----------------|
| | | Chain 0 | Chain 1 | | |
| 802.11n-HT20 | 5180 | 2.34 | 2.42 | 5.39 | 11 |
| | 5200 | 2.84 | 2.97 | 5.92 | 11 |
| | 5240 | 4.13 | 4.62 | 7.40 | 11 |
| 802.11n-HT40 | 5190 | -0.32 | 0.31 | 3.02 | 11 |
| | 5230 | 0.49 | 1.59 | 4.09 | 11 |
| 802.11ac80 | 5210 | -3.45 | -2.68 | -0.04 | 11 |

Note:

1. The max antenna gain is 0.21dBi.
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 10 \times \log(N_{\text{ANT}}/N_{\text{SS}})\text{dB}$$

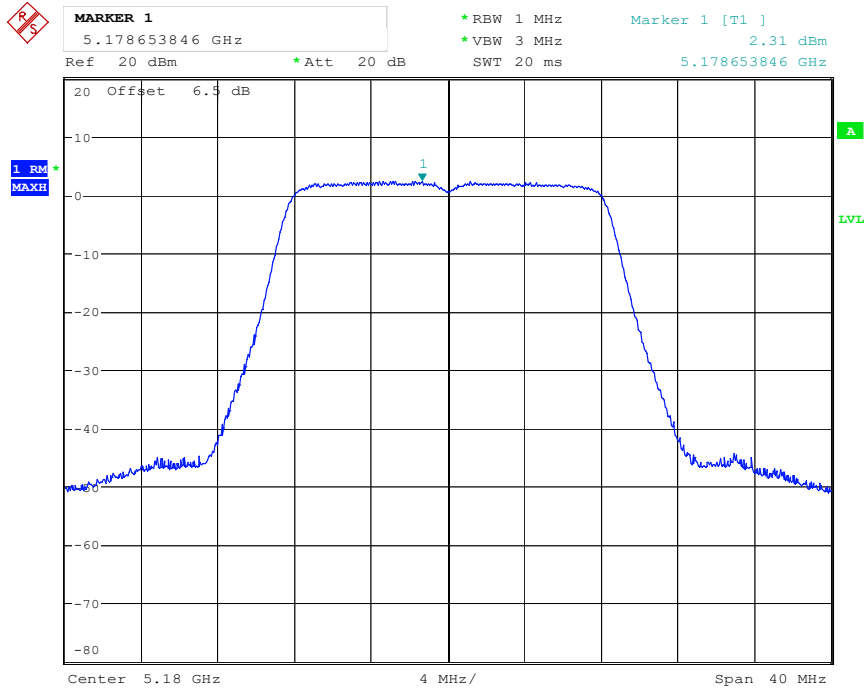
So:

$$\text{Directional gain} = \text{GANT} + \text{Array Gain} = 0.21 + 10 \times \log(2) = 3.22 < 6\text{dBi}$$

No power density Limit reduced in MIMO mode.

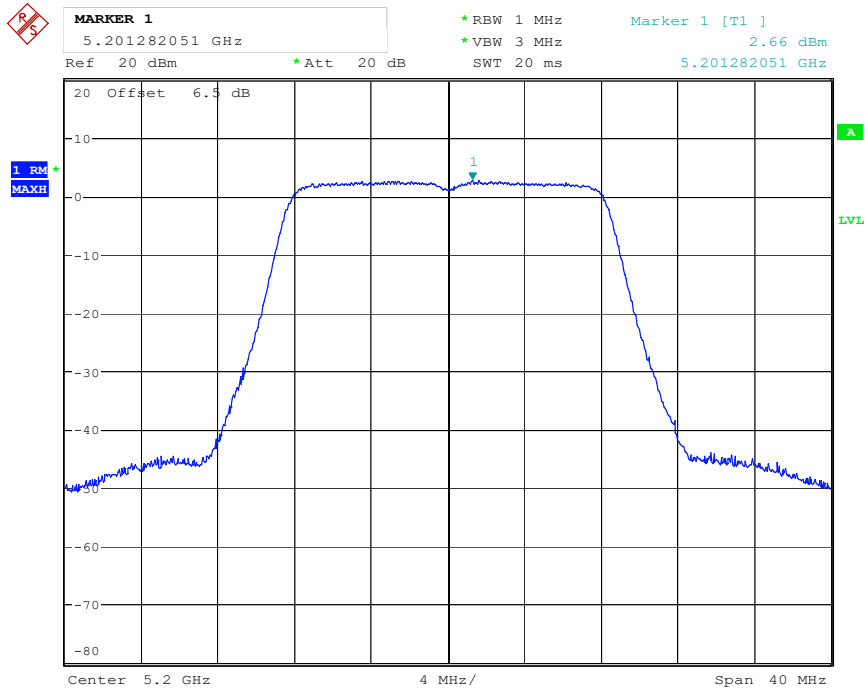
Chain 0

802.11a mode, Power Spectral Density-5180 MHz



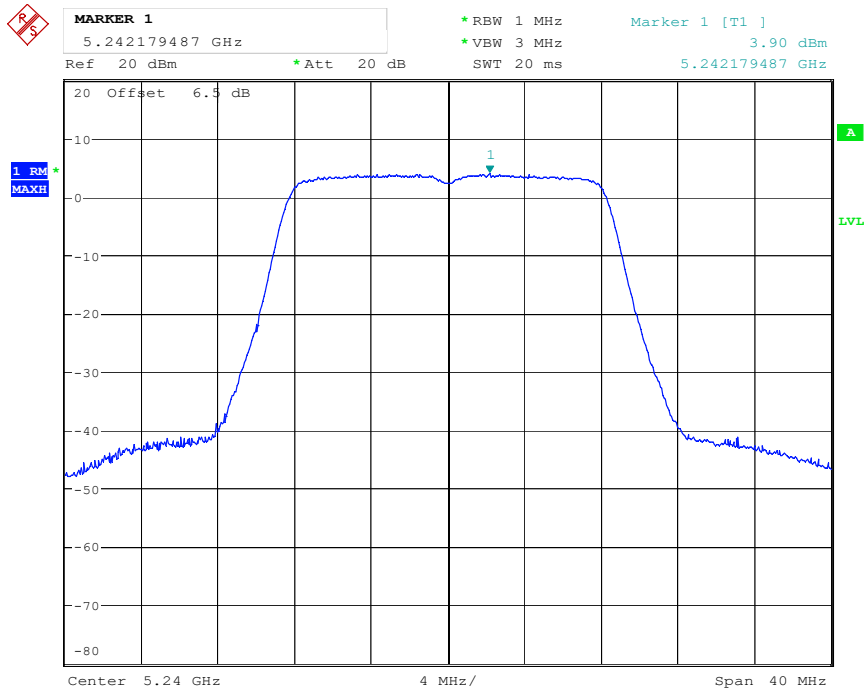
Date: 7.MAY.2021 13:09:33

802.11a mode, Power Spectral Density-5200 MHz



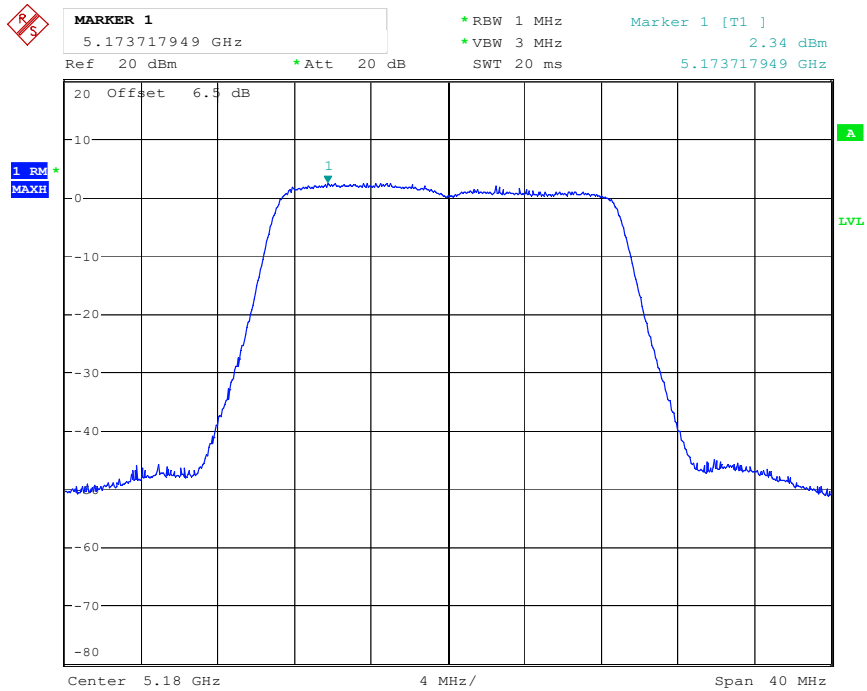
Date: 7.MAY.2021 13:10:09

802.11a mode, Power Spectral Density-5240 MHz



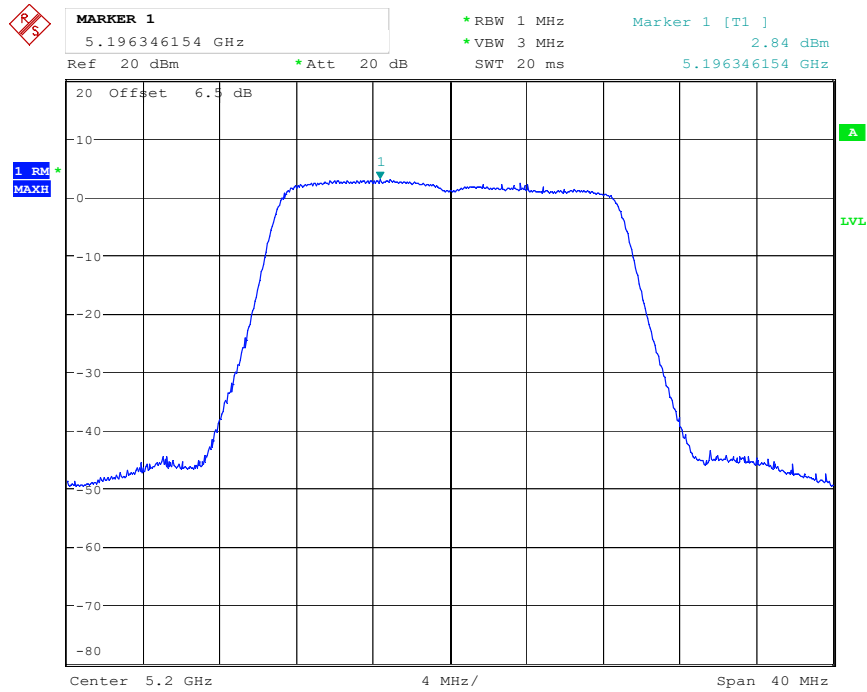
Date: 7.MAY.2021 13:10:22

802.11n-HT20 mode, Power Spectral Density-5180 MHz



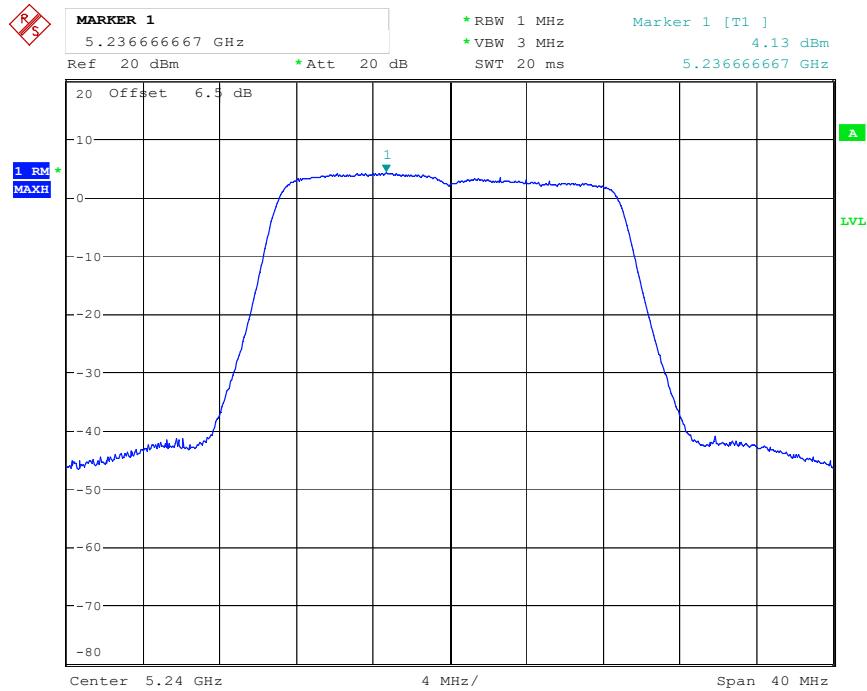
Date: 7.MAY.2021 13:10:49

802.11n-HT20 mode, Power Spectral Density-5200 MHz



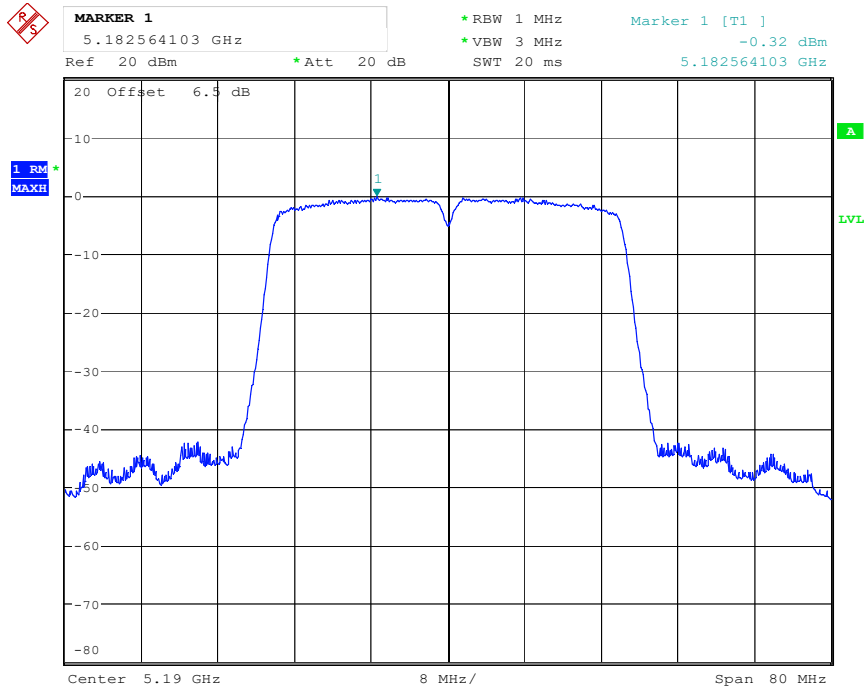
Date: 7.MAY.2021 13:11:13

802.11n-HT20 mode, Power Spectral Density-5240 MHz



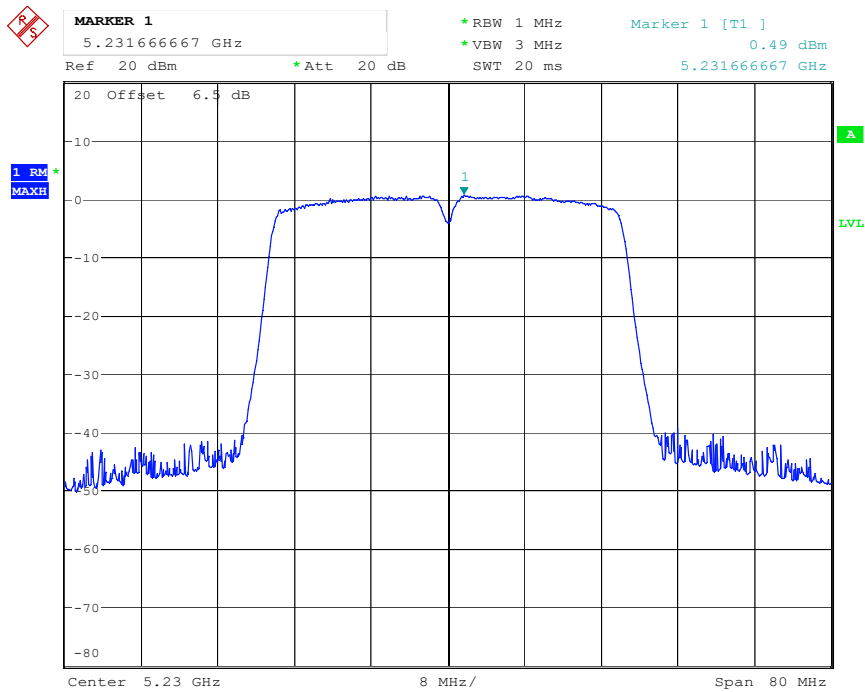
Date: 7.MAY.2021 13:12:04

802.11n-HT40 mode, Power Spectral Density-5190 MHz



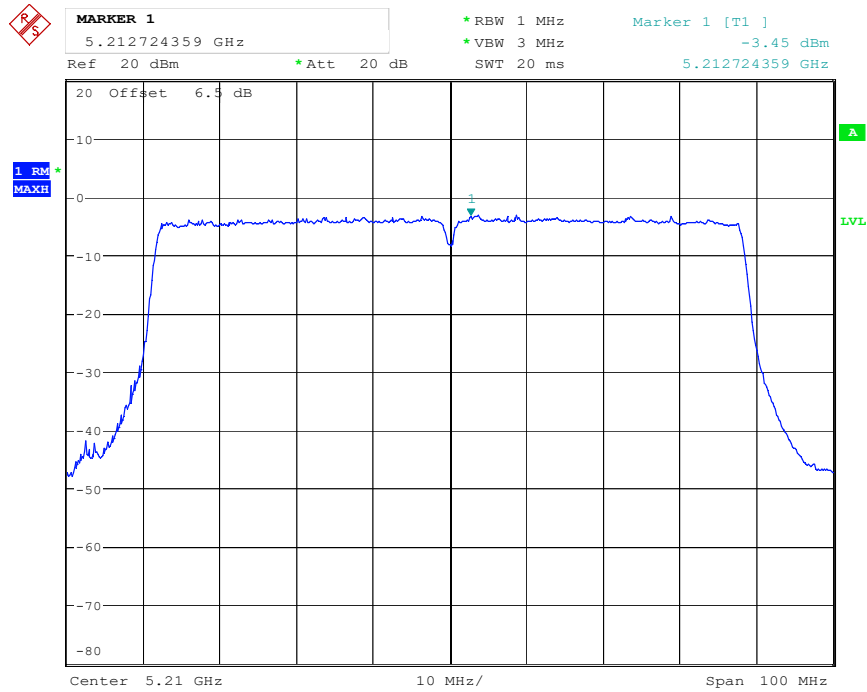
Date: 7.MAY.2021 13:13:31

802.11n-HT40 mode, Power Spectral Density-5230 MHz



Date: 7.MAY.2021 13:13:56

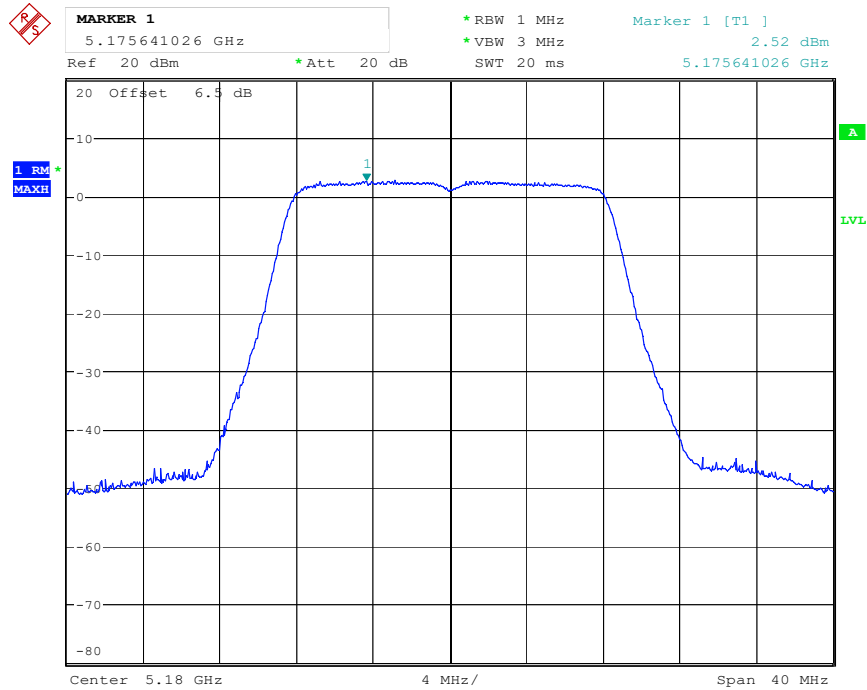
802.11ac 80 mode, Power Spectral Density-5210 MHz



Date: 7.MAY.2021 13:15:30

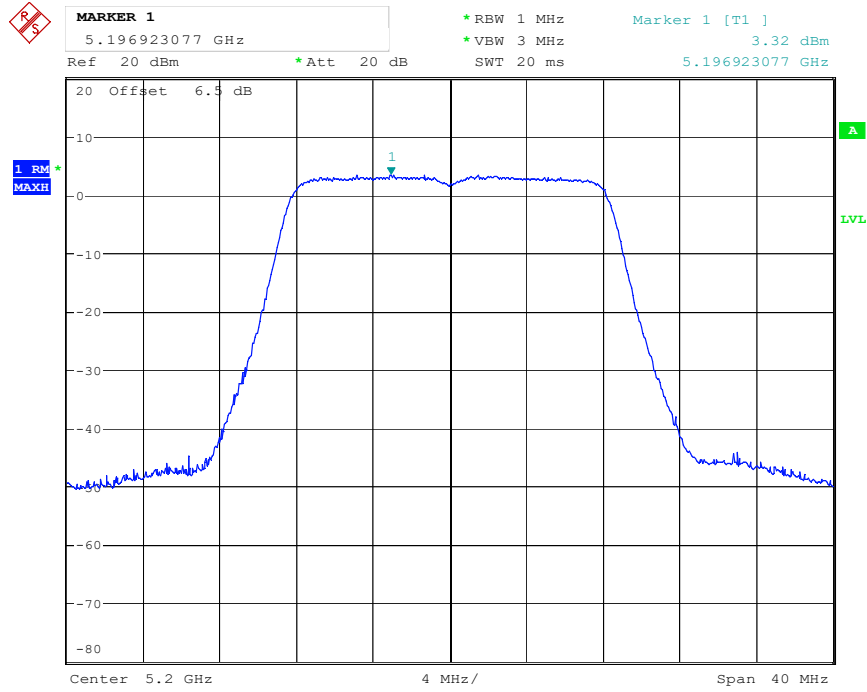
Chain 1

802.11a mode, Power Spectral Density-5180 MHz



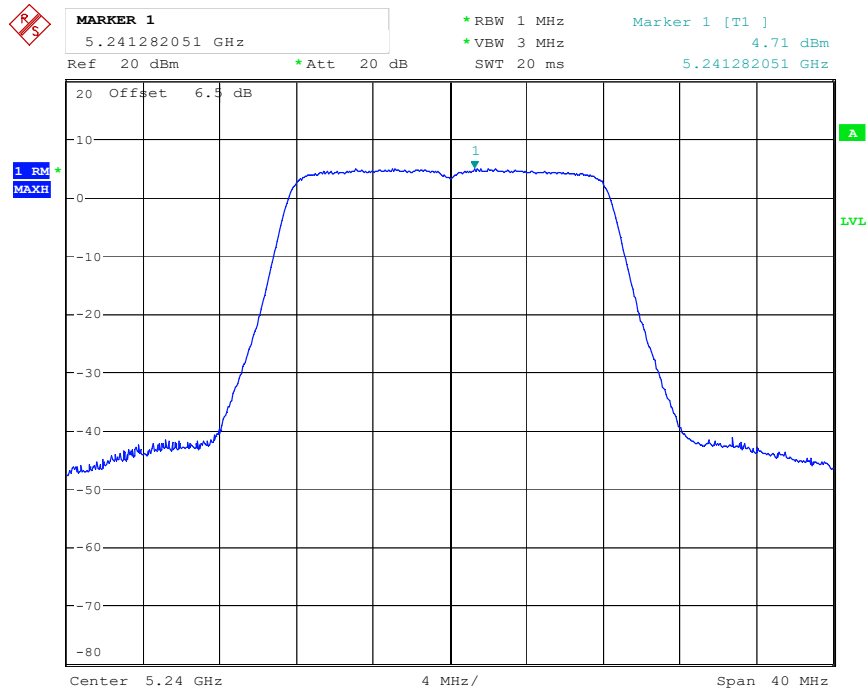
Date: 7.MAY.2021 13:19:55

802.11a mode, Power Spectral Density-5200 MHz



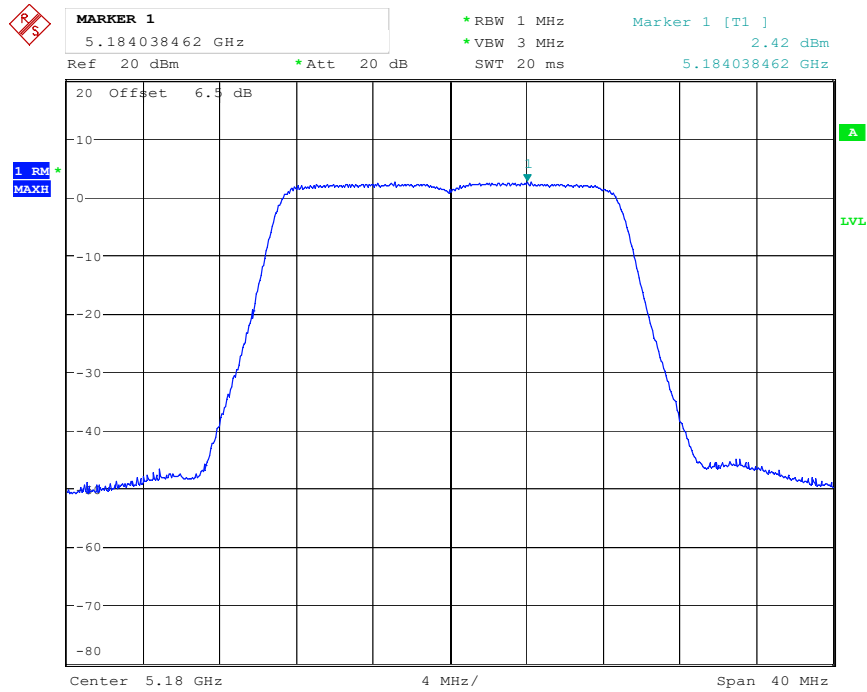
Date: 7.MAY.2021 13:19:38

802.11a mode, Power Spectral Density-5240 MHz



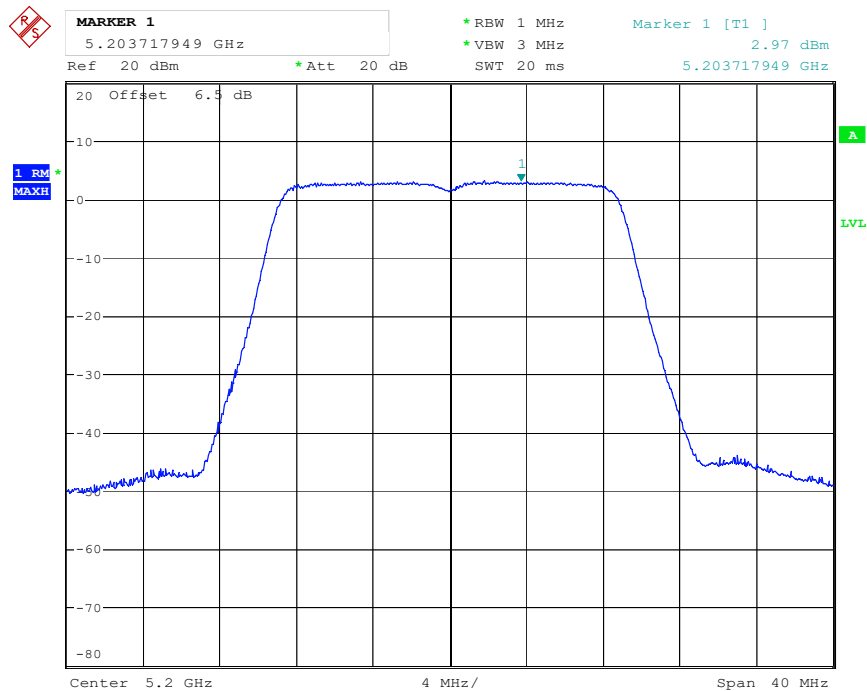
Date: 7.MAY.2021 13:19:17

802.11n-HT20 mode, Power Spectral Density-5180 MHz



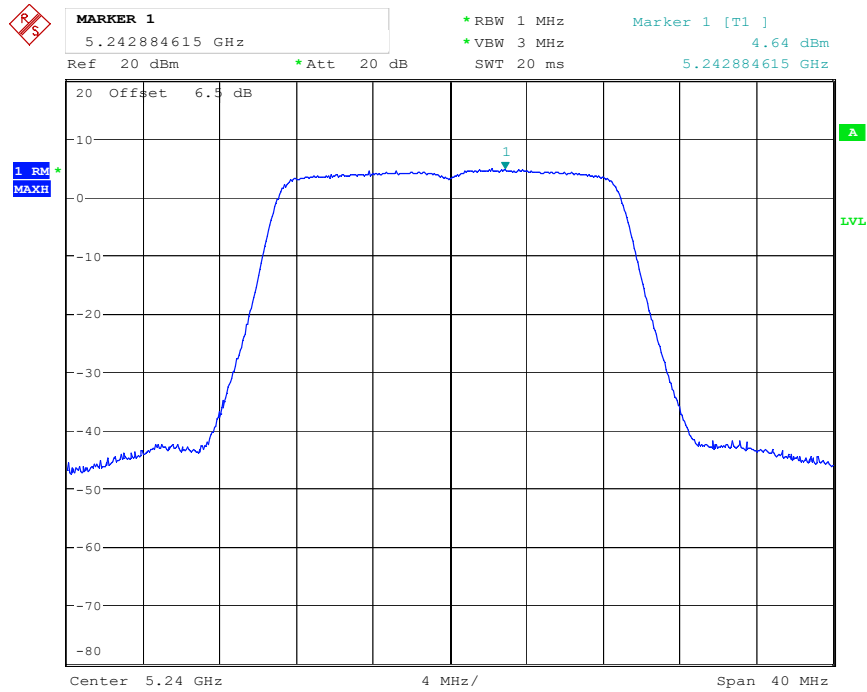
Date: 7.MAY.2021 13:18:00

802.11n-HT20 mode, Power Spectral Density-5200 MHz



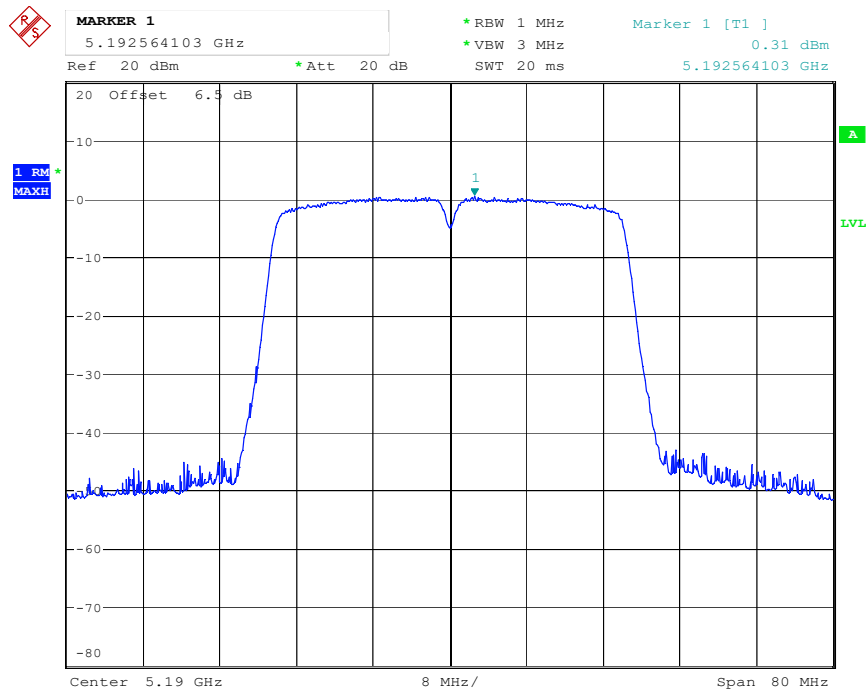
Date: 7.MAY.2021 13:18:29

802.11n-HT20 mode, Power Spectral Density-5240 MHz



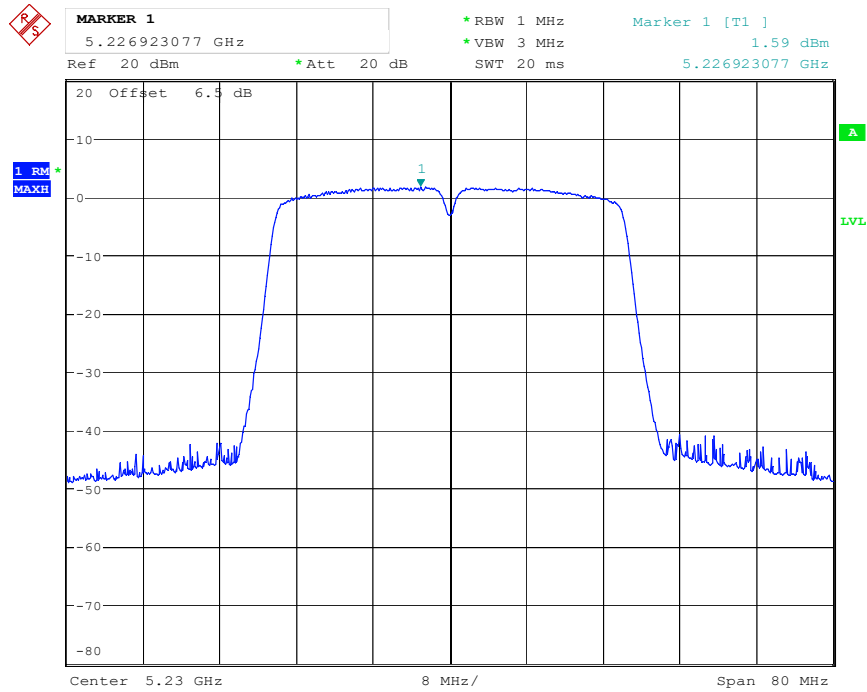
Date: 7.MAY.2021 13:18:49

802.11n-HT40 mode, Power Spectral Density-5190 MHz



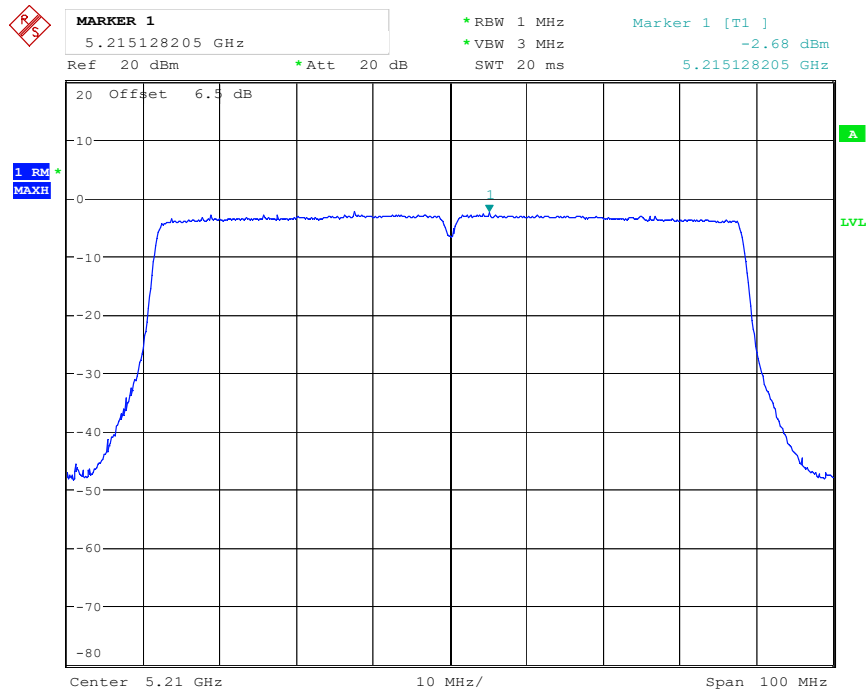
Date: 7.MAY.2021 13:17:13

802.11n-HT40 mode, Power Spectral Density-5230 MHz



Date: 7.MAY.2021 13:17:36

802.11ac 80 mode, Power Spectral Density-5210 MHz



Date: 7.MAY.2021 13:16:28

For 5725-5850 MHz:

| Mode | Frequency (MHz) | Power Spectral Density (dBm/500kHz) | | Limit (dBm/500kHz) |
|---------|-----------------|-------------------------------------|---------|--------------------|
| | | Chain 0 | Chain 1 | |
| 802.11a | 5745 | -2.95 | -2.31 | 30 |
| | 5785 | -3.30 | -3.03 | 30 |
| | 5825 | -3.23 | -2.96 | 30 |

| Mode | Frequency (MHz) | Power Spectral Density (dBm/500kHz) | | Total (dBm/500kHz) | Limit (dBm/500kHz) |
|--------------|-----------------|-------------------------------------|---------|--------------------|--------------------|
| | | Chain 0 | Chain 1 | | |
| 802.11n-HT20 | 5745 | -4.21 | -3.93 | -1.06 | 30 |
| | 5785 | -3.11 | -2.77 | 0.07 | 30 |
| | 5825 | -3.72 | -2.49 | -0.05 | 30 |
| 802.11n-HT40 | 5755 | -6.15 | -5.28 | -2.68 | 30 |
| | 5795 | -6.08 | -5.89 | -2.97 | 30 |
| 802.11ac80 | 5775 | -9.94 | -9.26 | -6.58 | 30 |

Note:

1. The max antenna gain is 0.02dBi.
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 10 \times \log(N_{\text{ANT}}/N_{\text{SS}})\text{dB}$$

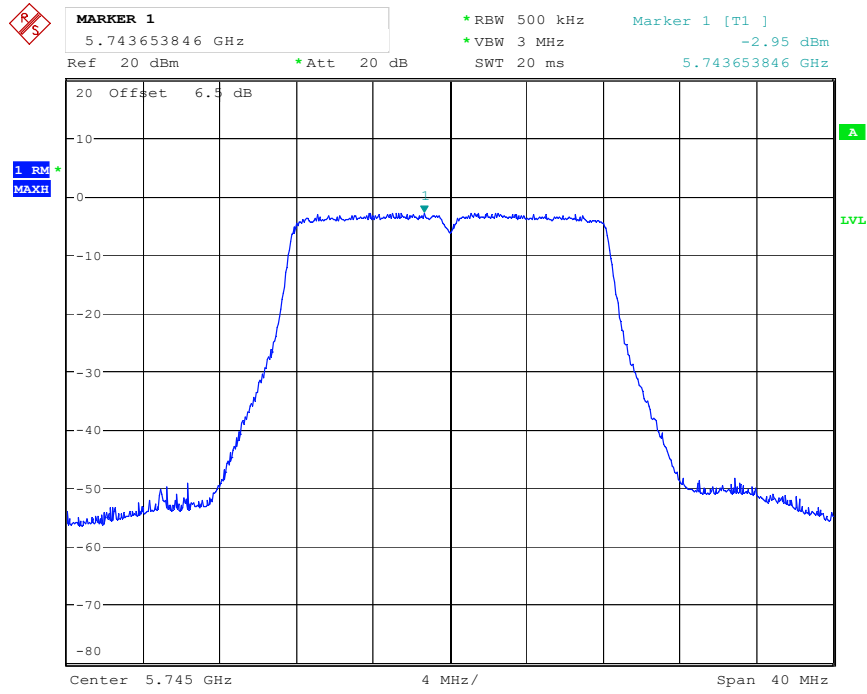
So:

$$\text{Directional gain} = \text{GANT} + \text{Array Gain} = 0.02 + 10 \times \log(2) = 3.03 < 6\text{dBi}$$

No power density Limit reduced in MIMO mode.

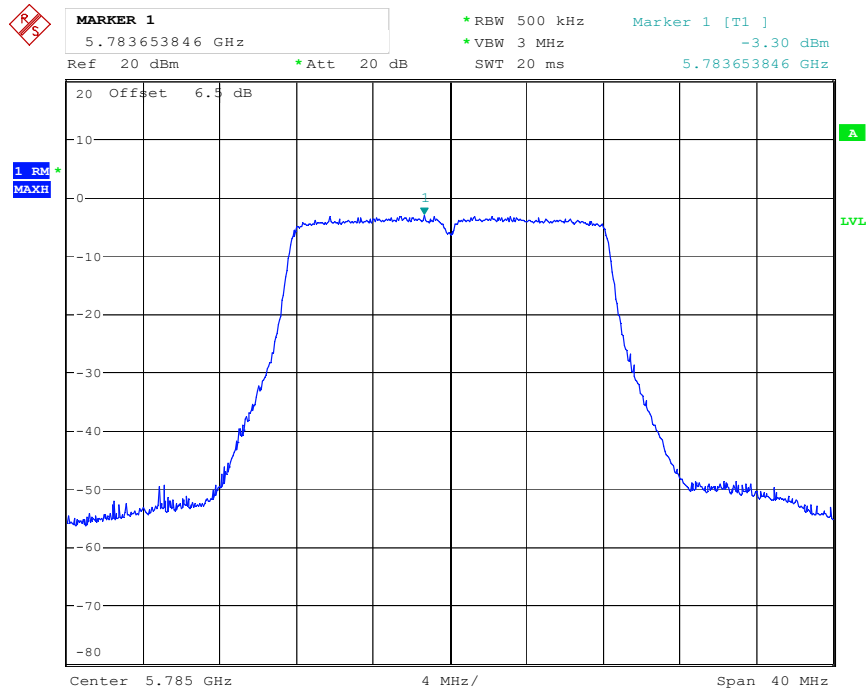
Chain 0

802.11a mode, Power Spectral Density-5745 MHz



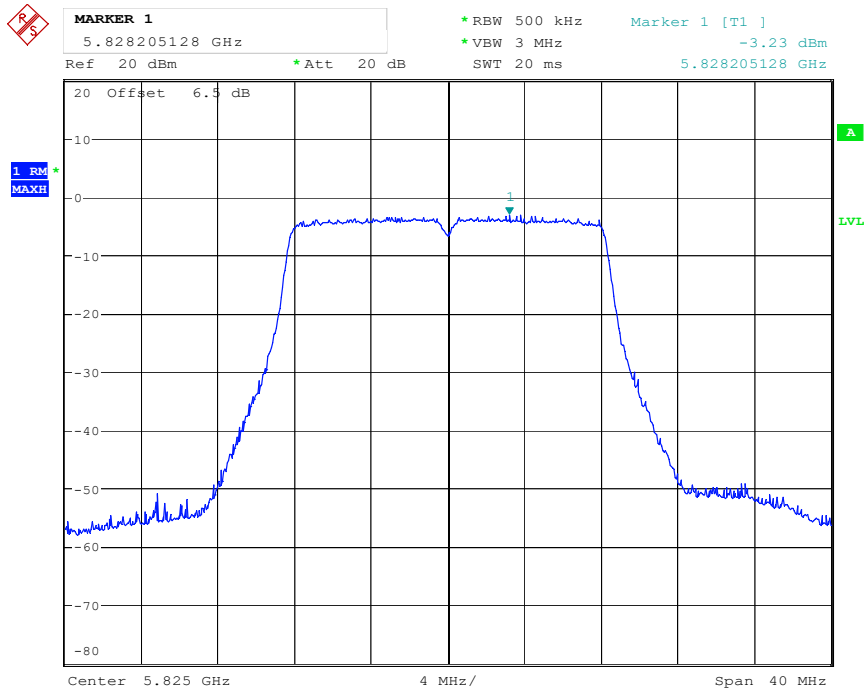
Date: 7.MAY.2021 13:34:04

802.11a mode, Power Spectral Density-5785 MHz



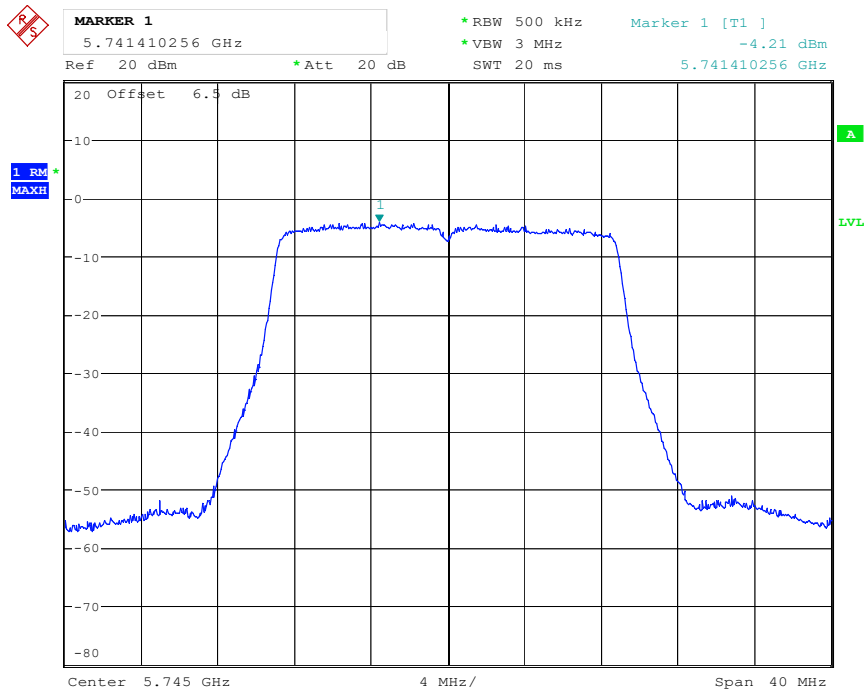
Date: 7.MAY.2021 13:32:53

802.11a mode, Power Spectral Density-5825 MHz



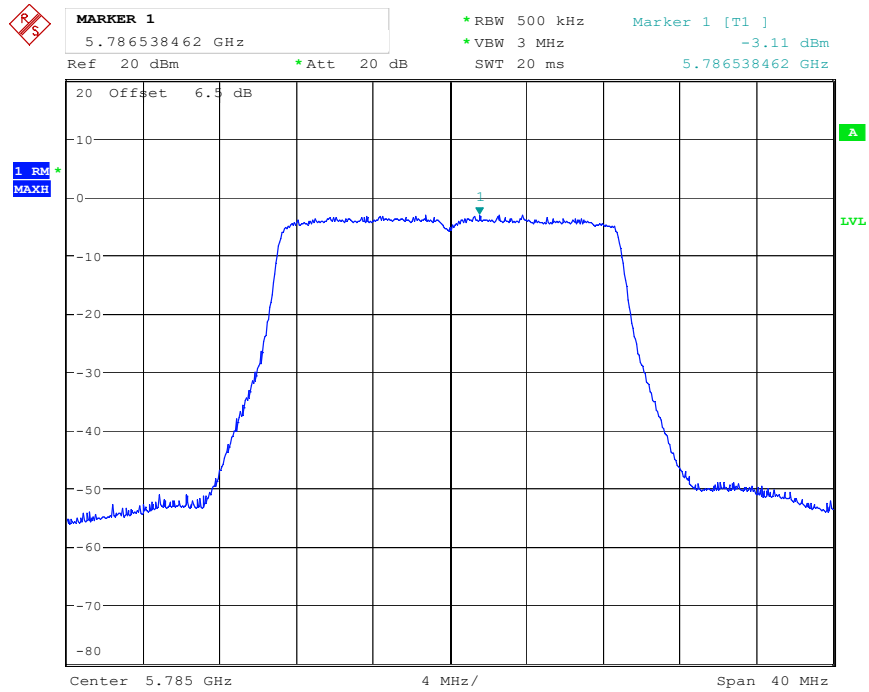
Date: 7.MAY.2021 13:32:31

802.11n-HT20 mode, Power Spectral Density-5745 MHz



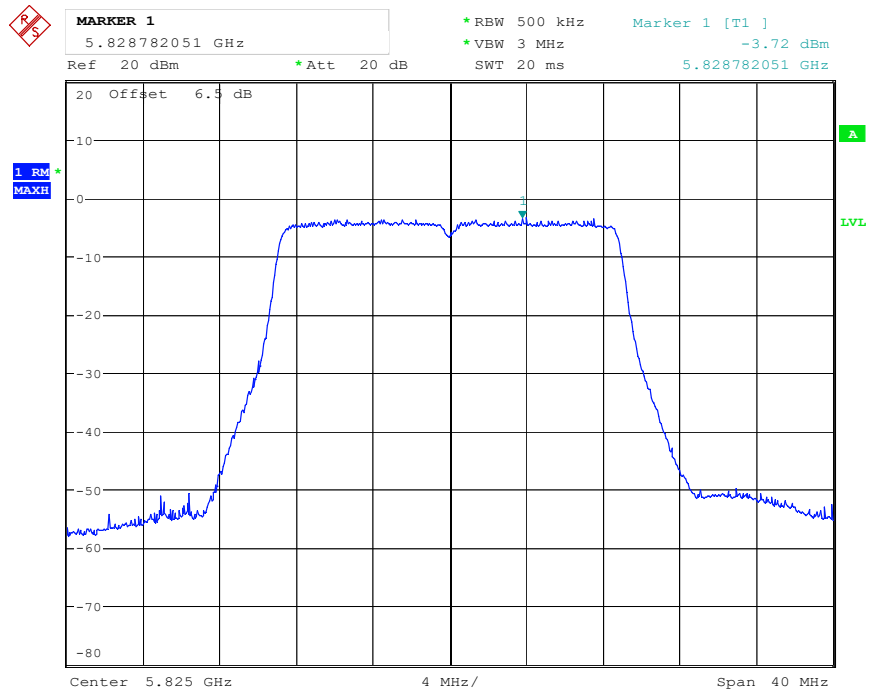
Date: 7.MAY.2021 13:31:22

802.11n-HT20 mode, Power Spectral Density-5785 MHz



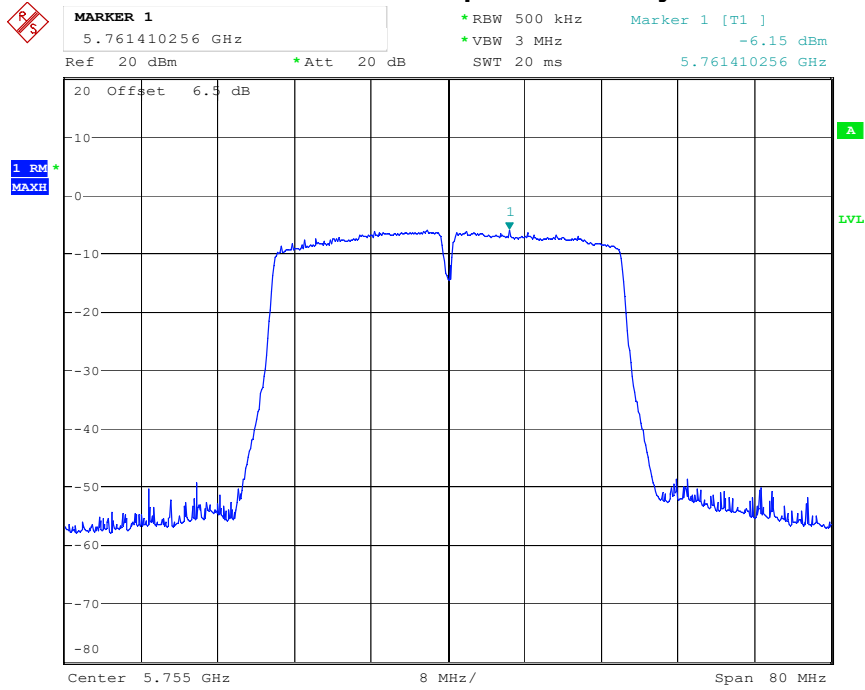
Date: 7.MAY.2021 13:31:47

802.11n-HT20 mode, Power Spectral Density-5825 MHz



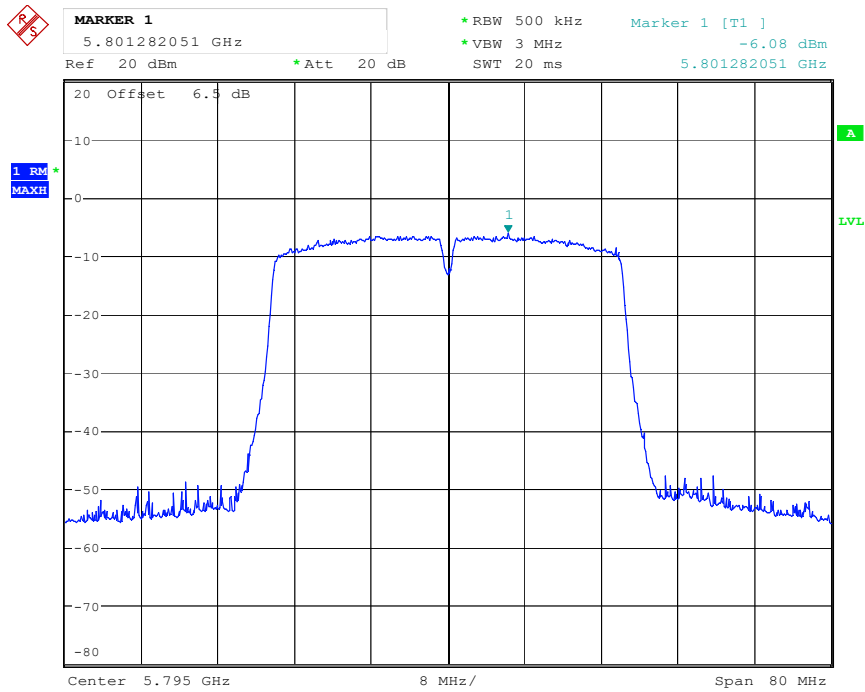
Date: 7.MAY.2021 13:32:07

802.11n-HT40 mode, Power Spectral Density-5755 MHz



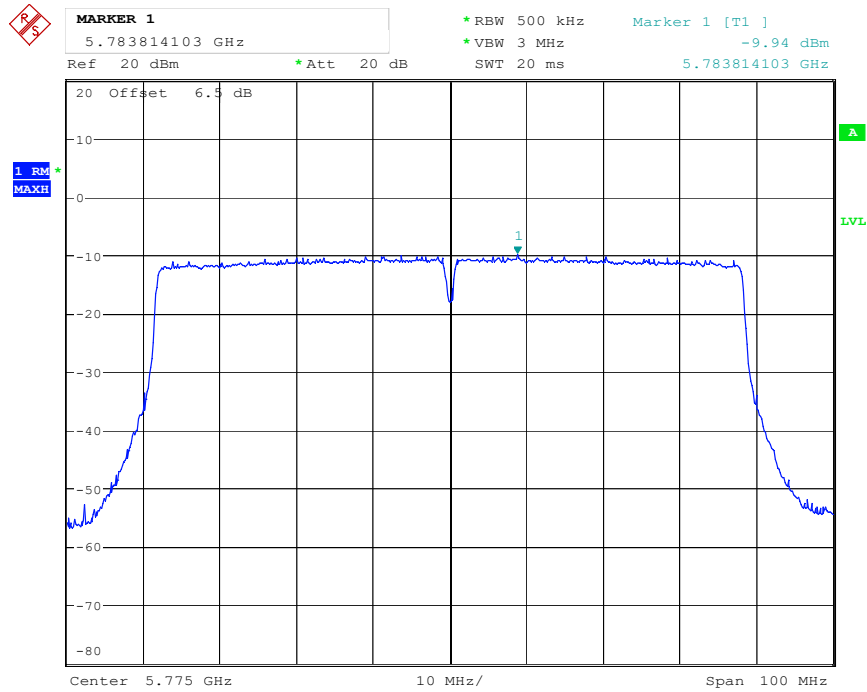
Date: 7.MAY.2021 13:30:34

802.11n-HT40 mode, Power Spectral Density-5795 MHz



Date: 7.MAY.2021 13:30:55

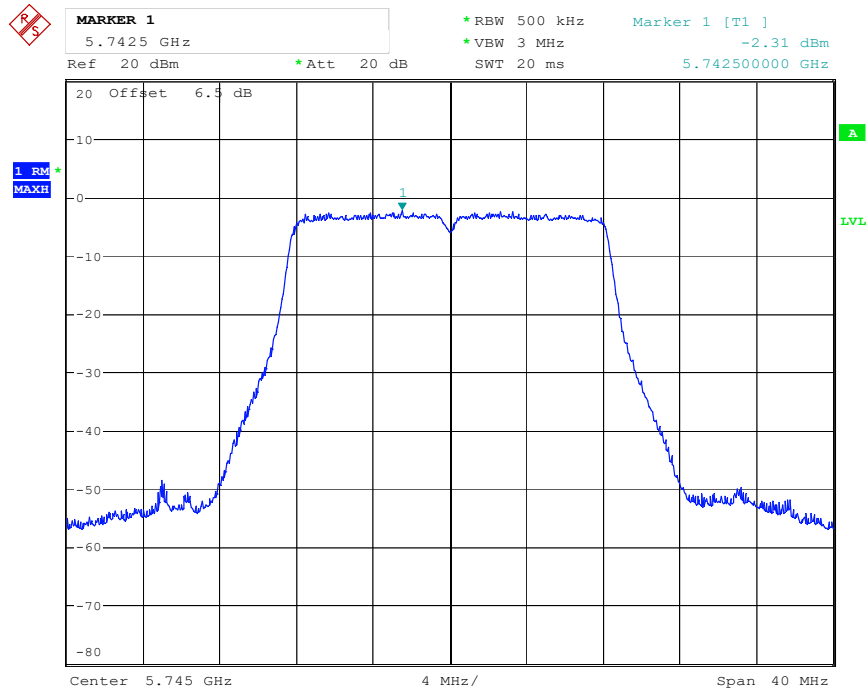
802.11ac80 mode, Power Spectral Density-5775 MHz



Date: 7.MAY.2021 13:29:25

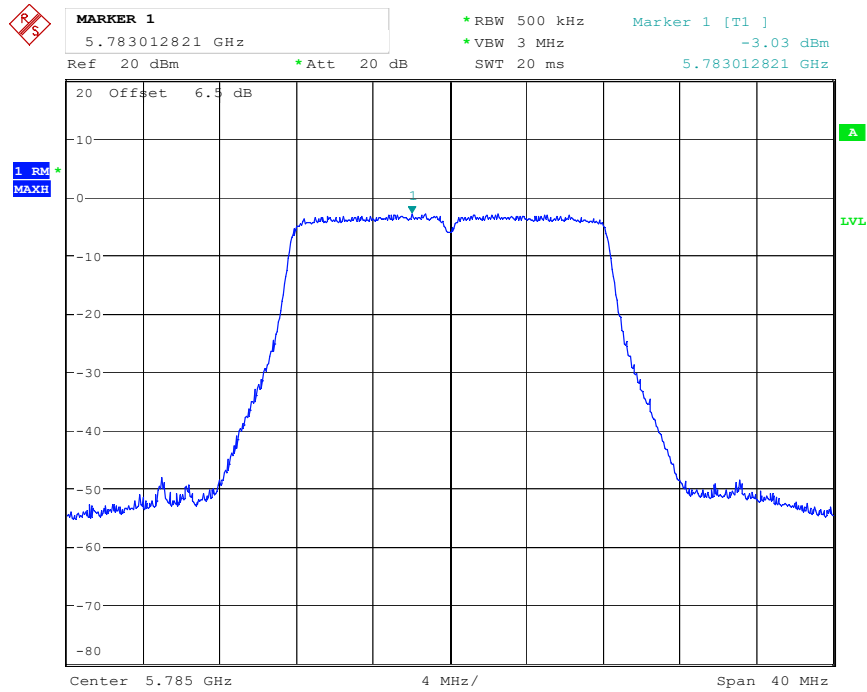
Chain 1

802.11a mode, Power Spectral Density-5745 MHz



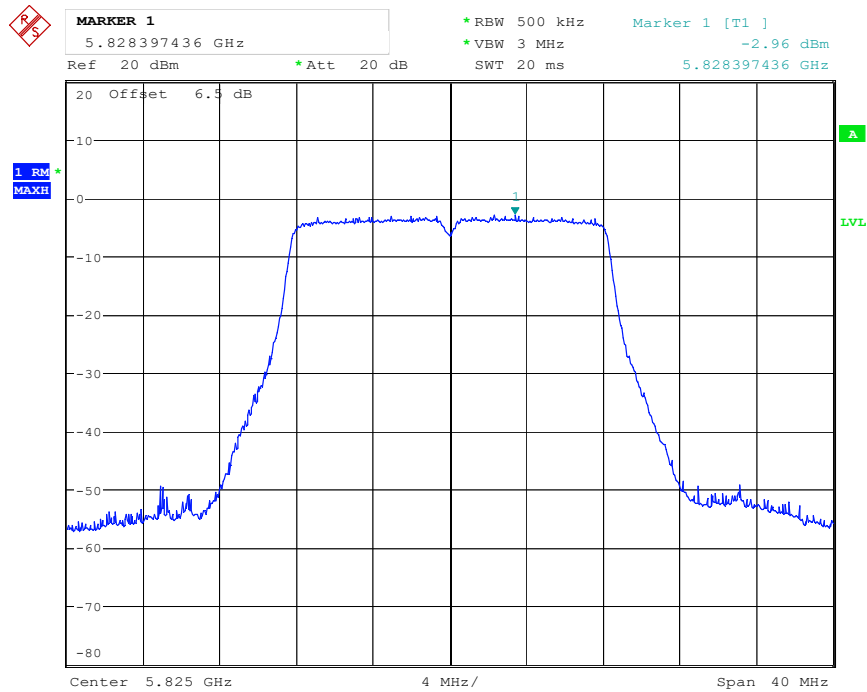
Date: 7.MAY.2021 13:23:24

802.11a mode, Power Spectral Density-5785 MHz



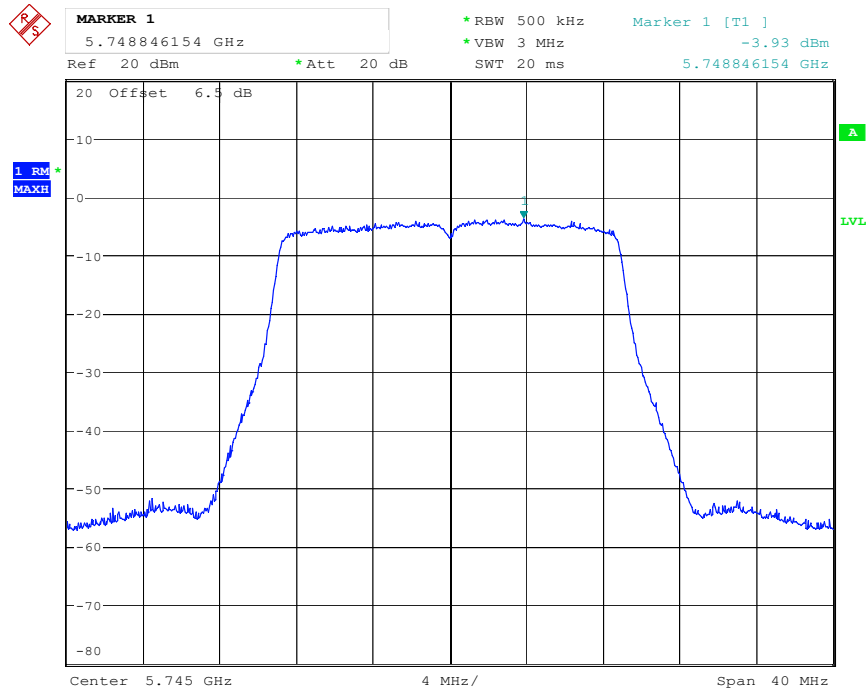
Date: 7.MAY.2021 13:24:18

802.11a mode, Power Spectral Density-5825 MHz



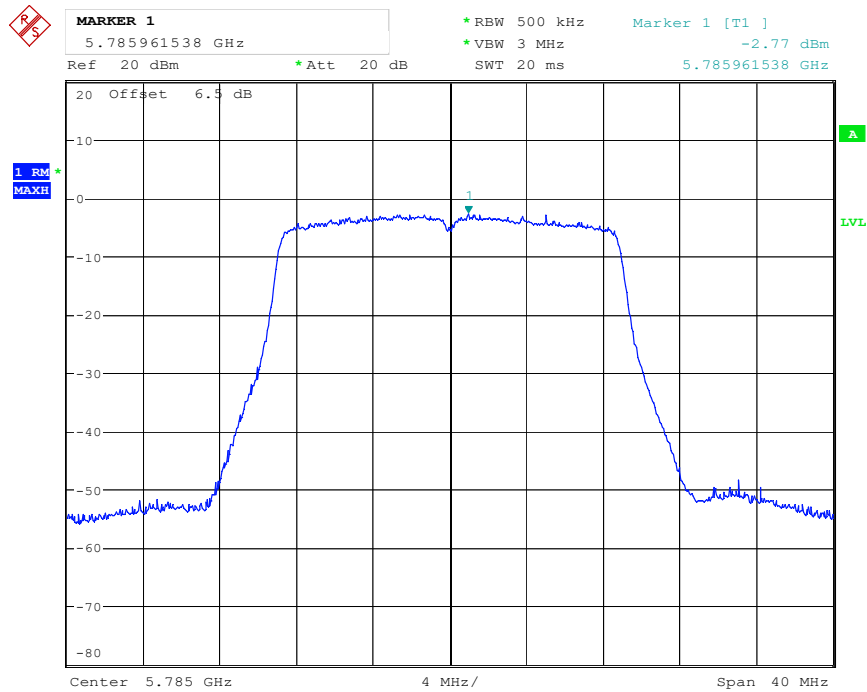
Date: 7.MAY.2021 13:24:49

802.11n-HT20 mode, Power Spectral Density-5745 MHz



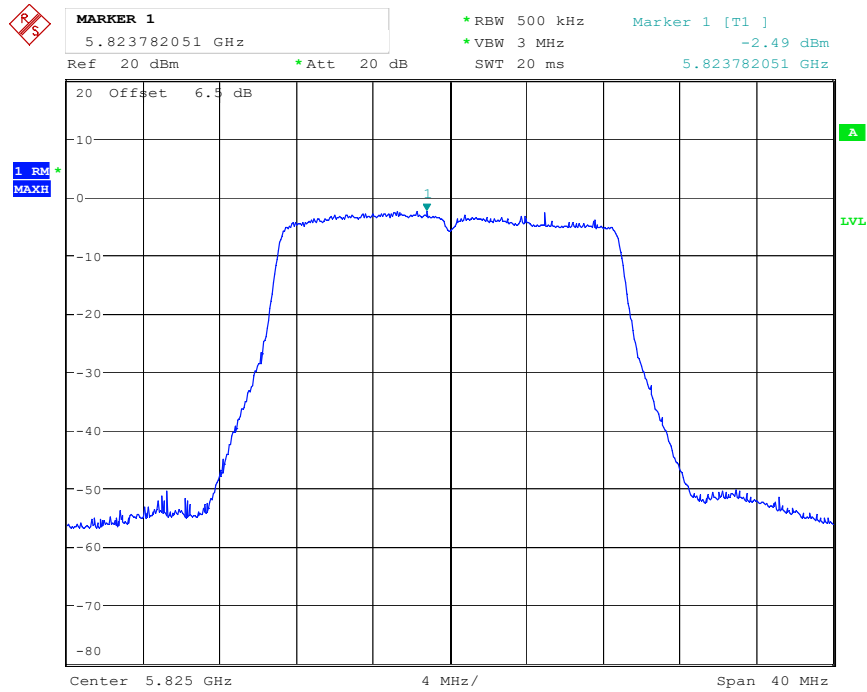
Date: 7.MAY.2021 13:25:20

802.11n-HT20 mode, Power Spectral Density-5785 MHz



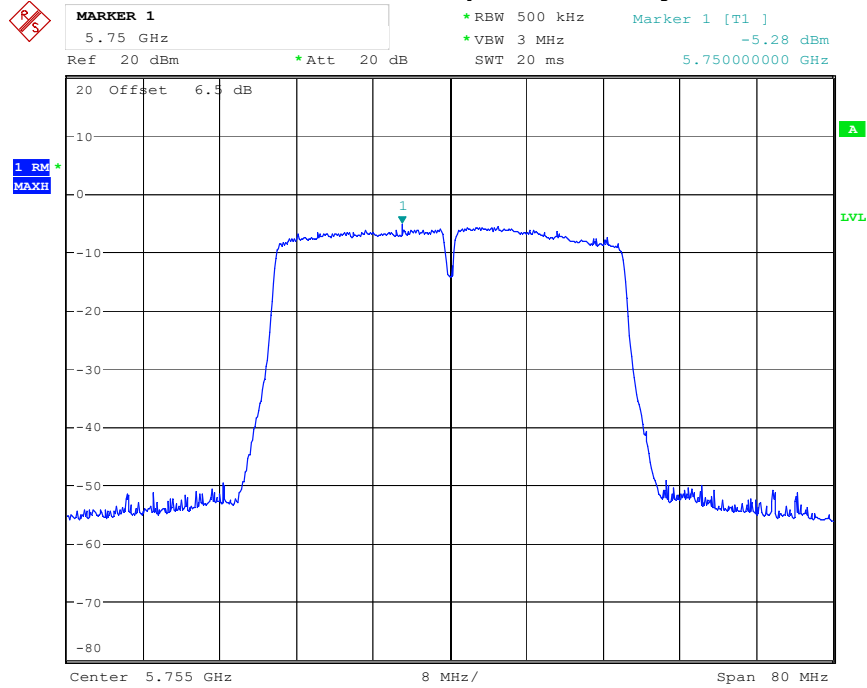
Date: 7.MAY.2021 13:25:41

802.11n-HT20 mode, Power Spectral Density-5825 MHz



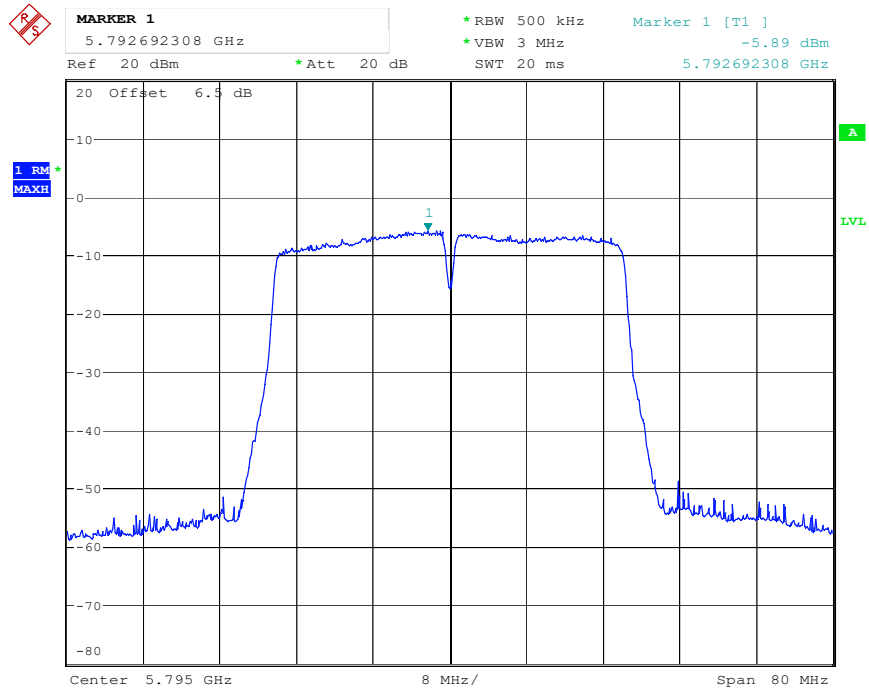
Date: 7.MAY.2021 13:26:17

802.11n-HT40 mode, Power Spectral Density-5755 MHz



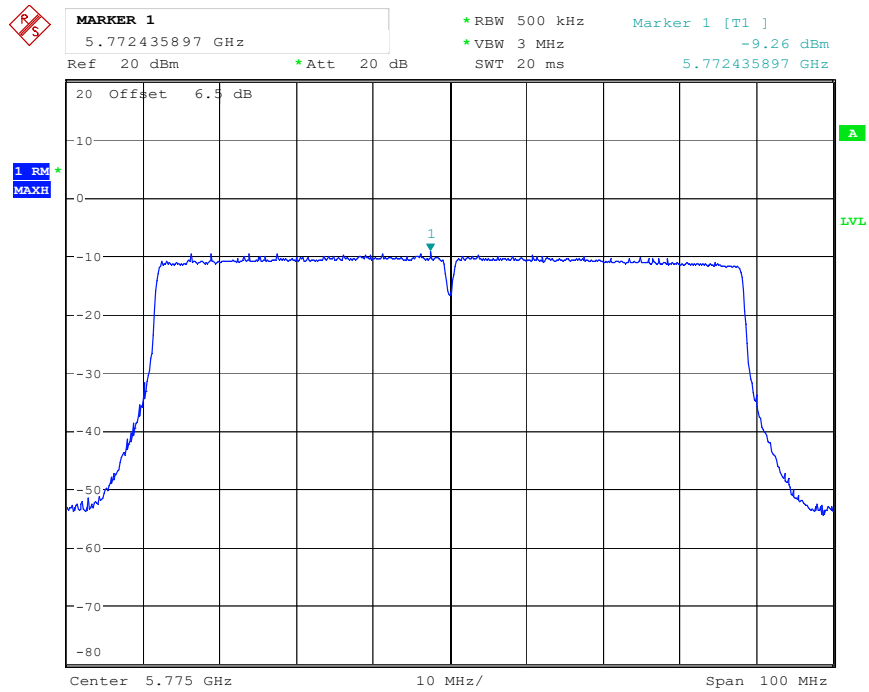
Date: 7.MAY.2021 13:27:09

802.11n-HT40 mode, Power Spectral Density-5795 MHz



Date: 7.MAY.2021 13:27:19

802.11ac80 mode, Power Spectral Density-5775 MHz



Date: 7.MAY.2021 13:28:31

END OF REPORT