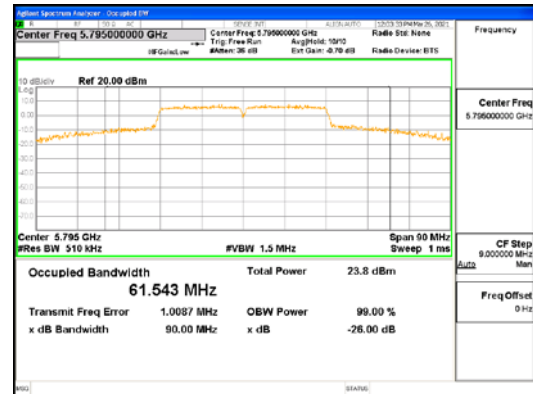
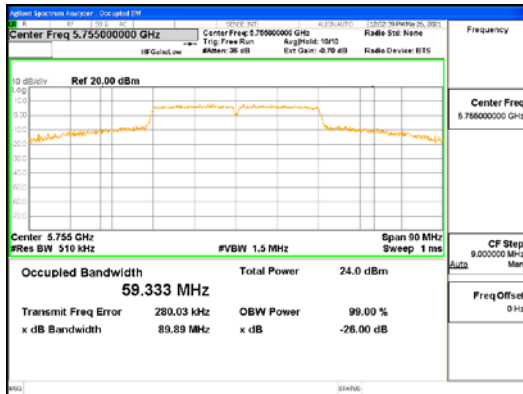




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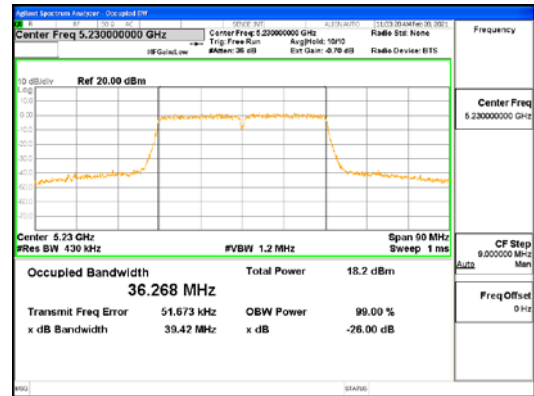
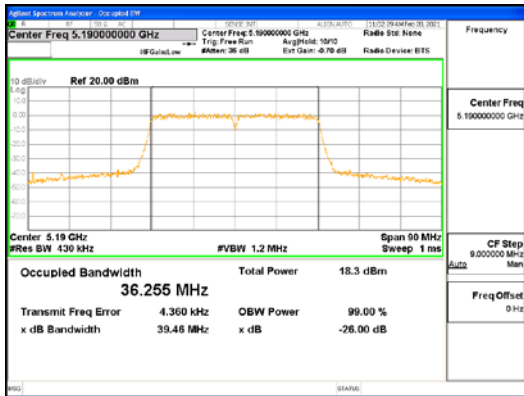


ANT1_802.11ac_VHT40_UNII 3

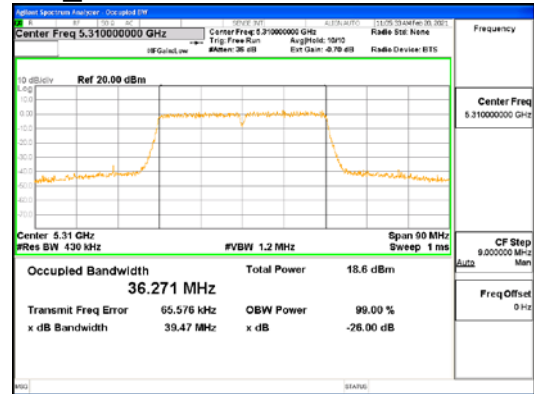
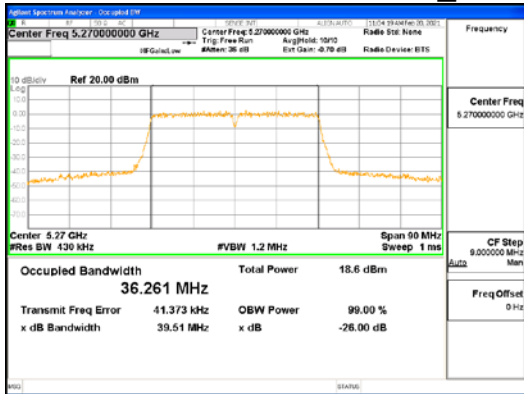


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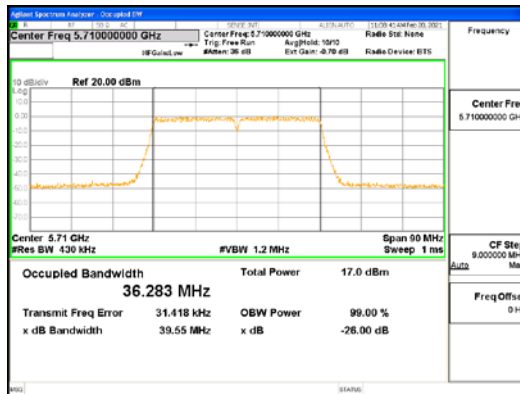
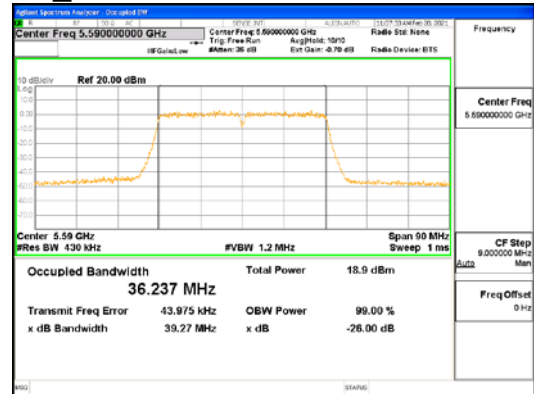
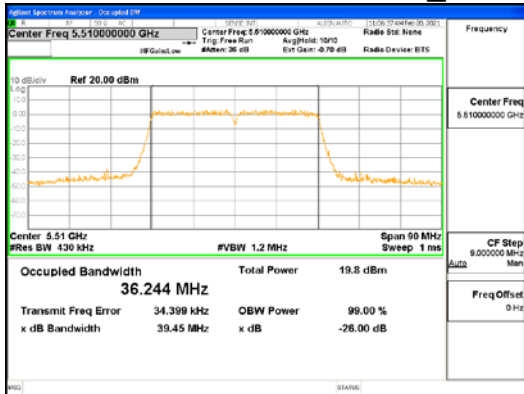
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ANT2_802.11ac_VHT40_UNII 1



ANT2_802.11ac_VHT40_UNII 2A

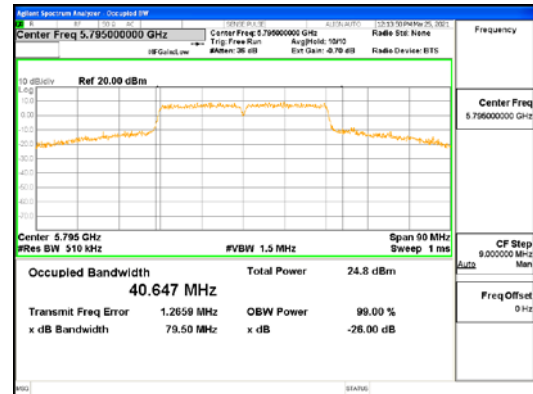
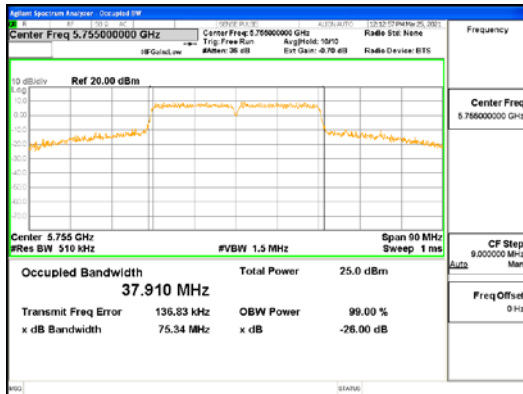


ANT2_802.11ac_VHT40_UNII 2C



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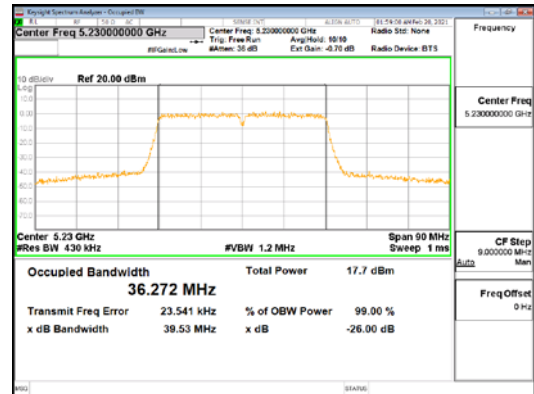
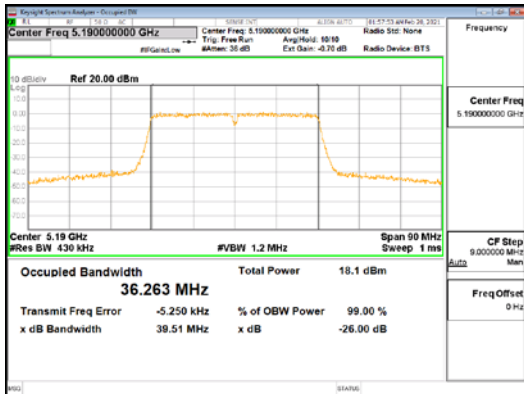


ANT2_802.11ac_VHT40_UNII 3

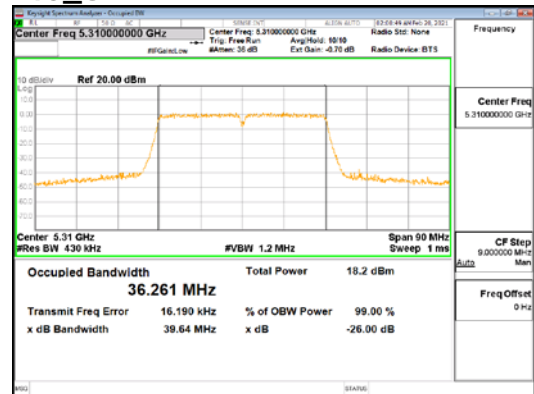
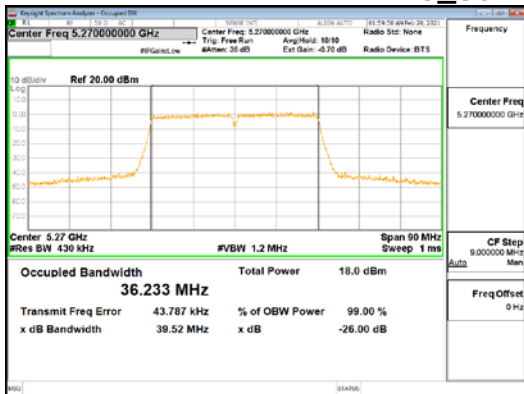


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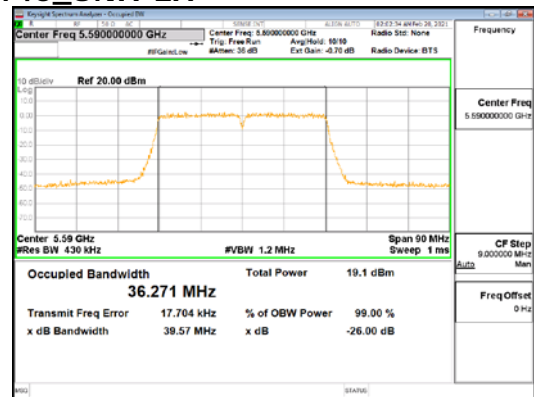
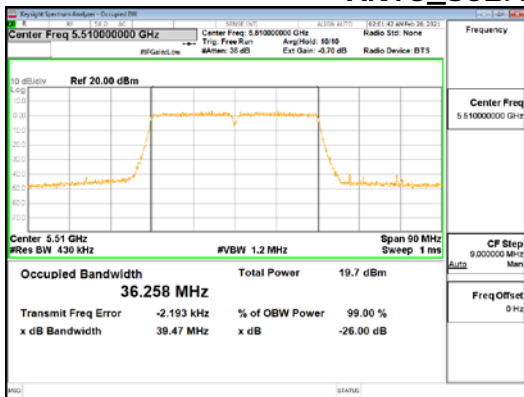
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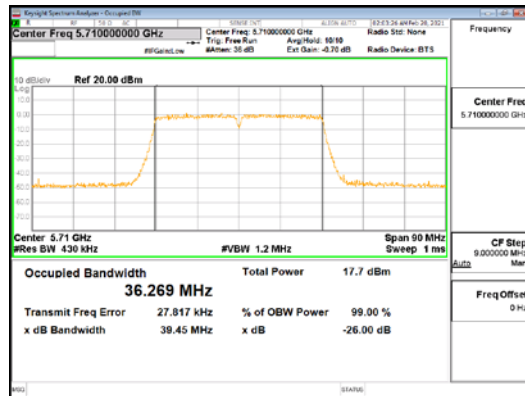
ANT3_802.11ac_VHT40_UNII 1



ANT3_802.11ac_VHT40_UNII 2A



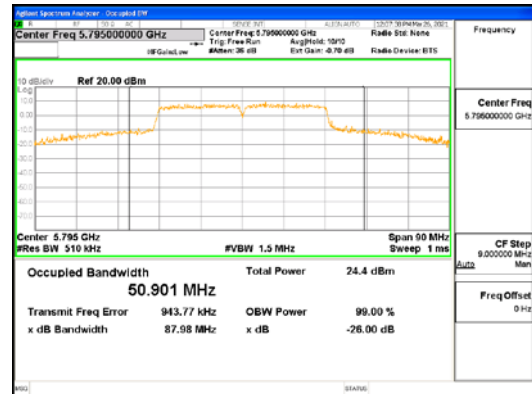
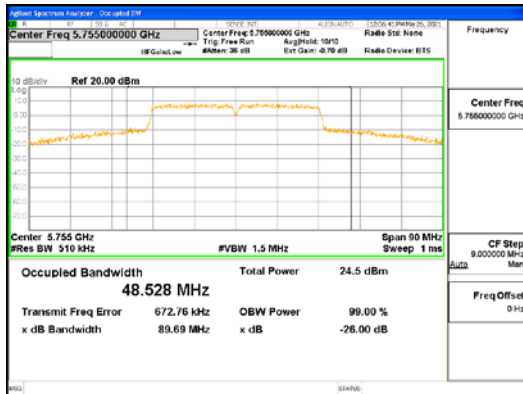
ANT3_802.11ac_VHT40_UNII 2C





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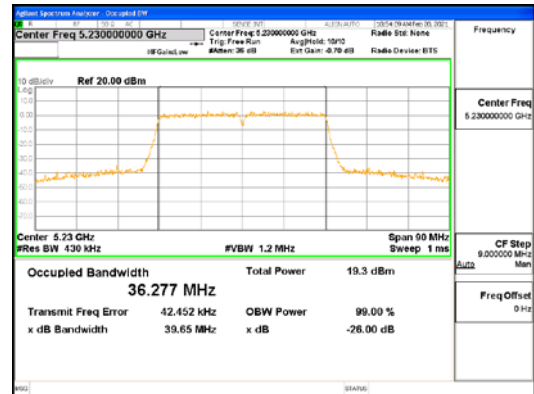
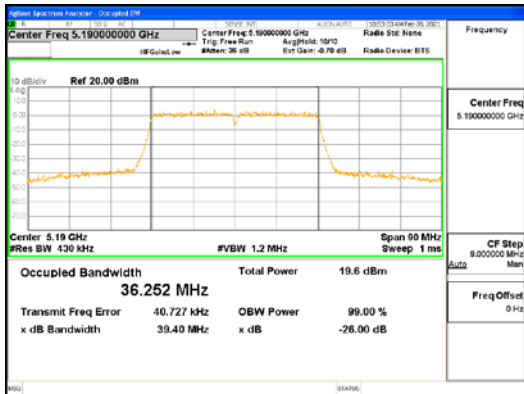


ANT3_802.11ac_VHT40_UNII 3

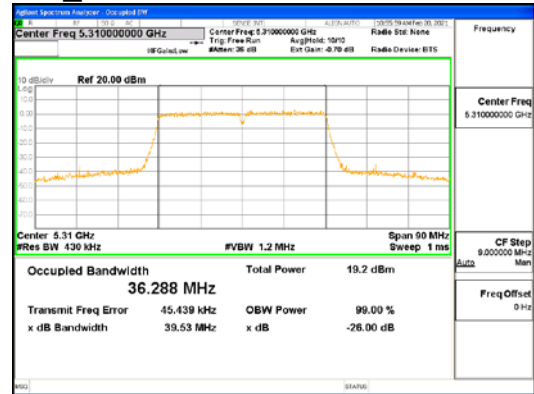
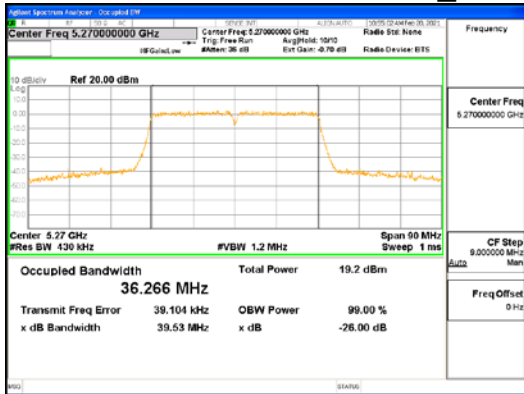


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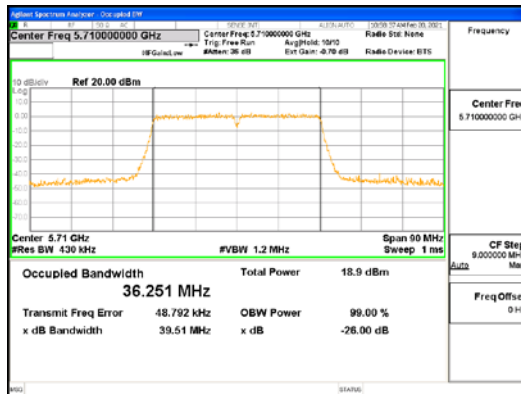
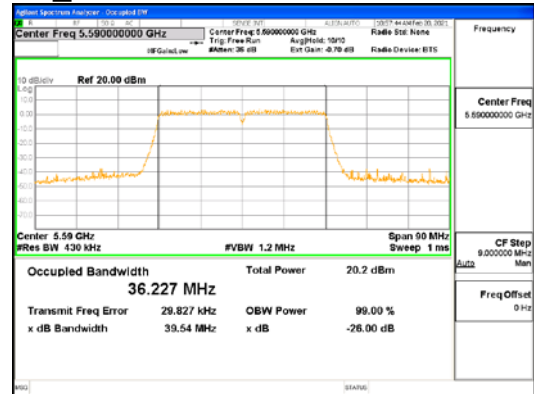
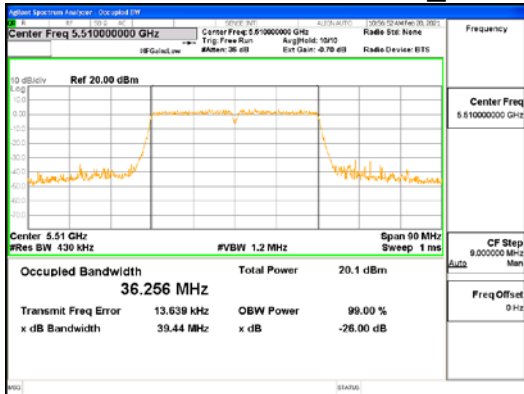
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ANT4_802.11ac_VHT40_UNII 1



ANT4_802.11ac_VHT40_UNII 2A

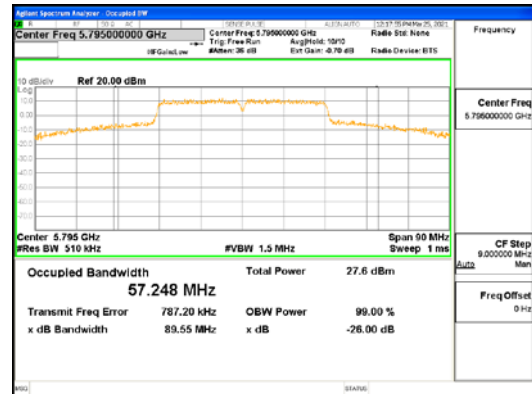
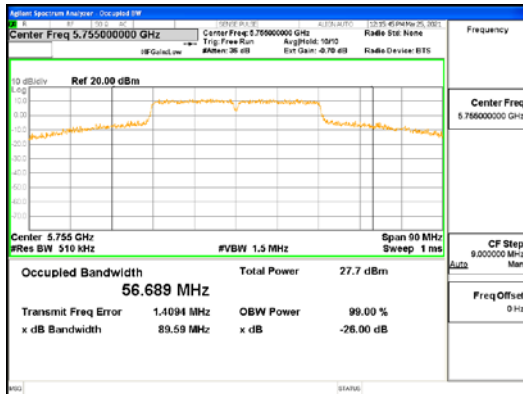


ANT4_802.11ac_VHT40_UNII 2C

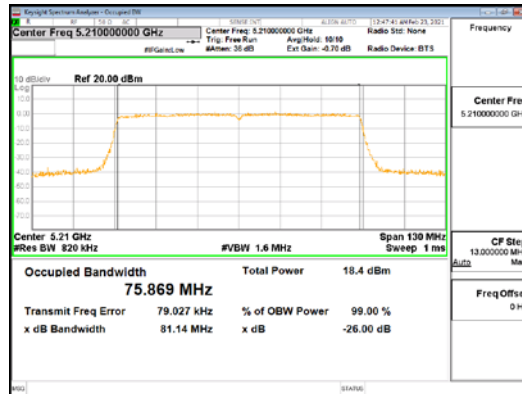


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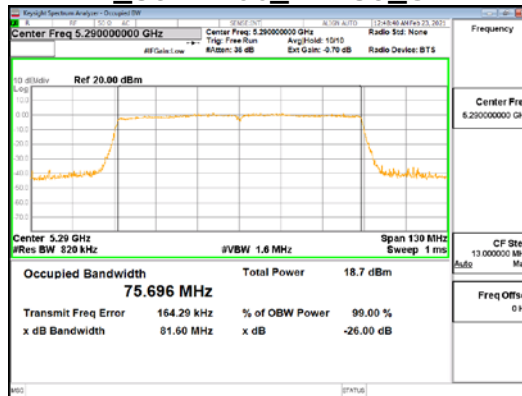
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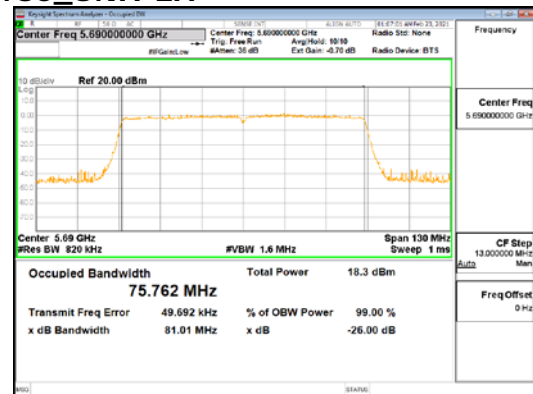
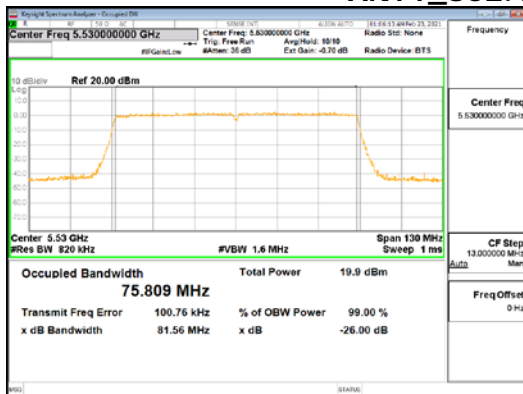
ANT4_802.11ac_VHT40_UNII 3



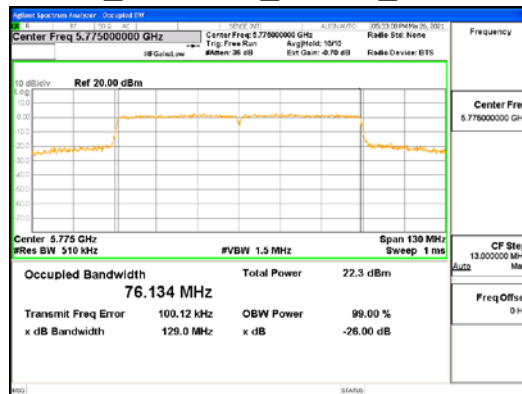
ANT1_802.11ac_VHT80_UNII 1



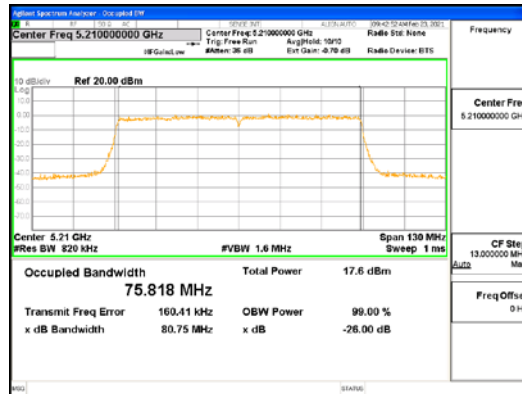
ANT1_802.11ac_VHT80_UNII 2A



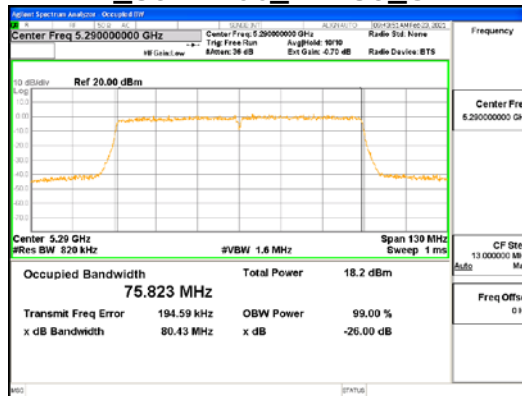
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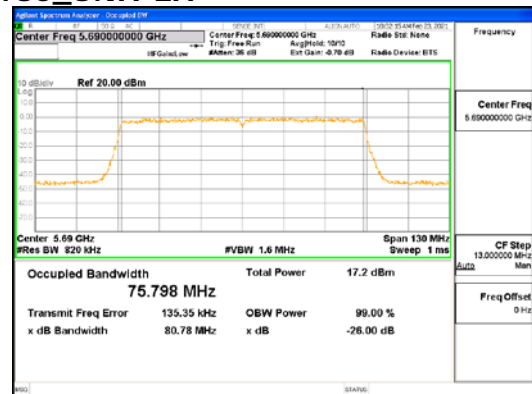
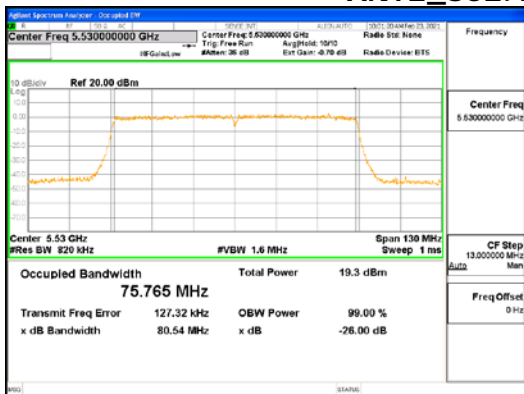
ANT1_802.11ac_VHT80_UNII 3



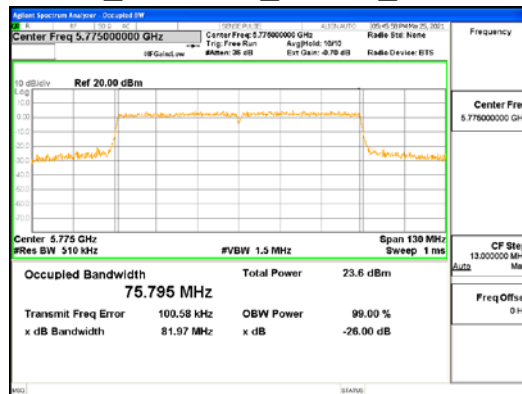
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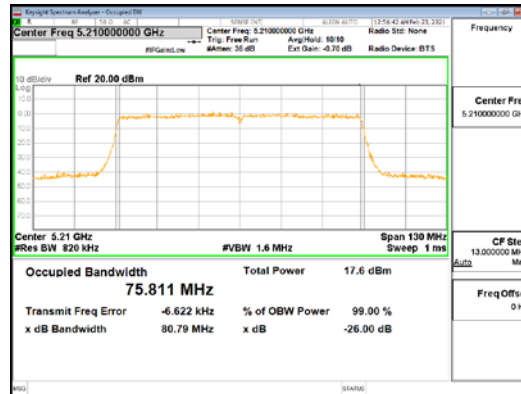
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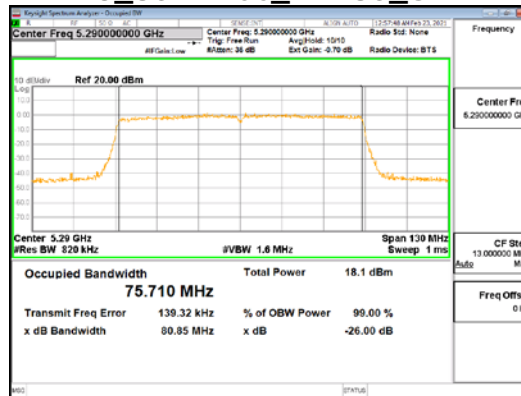
ANT2_802.11ac_VHT80_UNII 2C



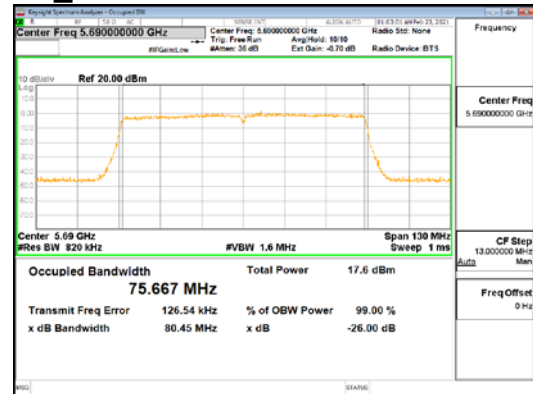
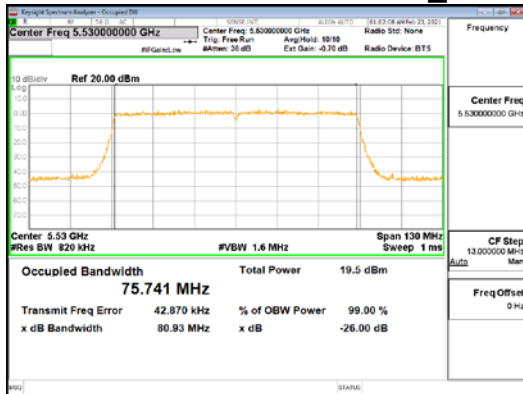
ANT2_802.11ac_VHT80_UNII 3



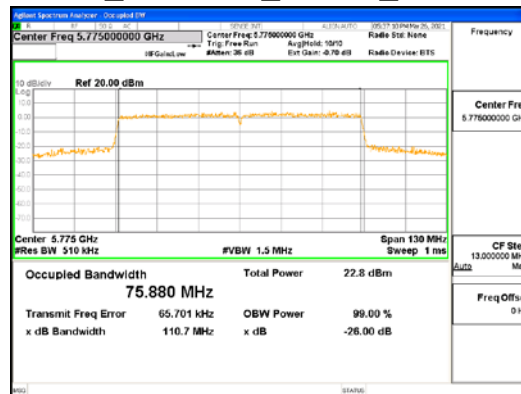
ANT3_802.11ac_VHT80_UNII 1



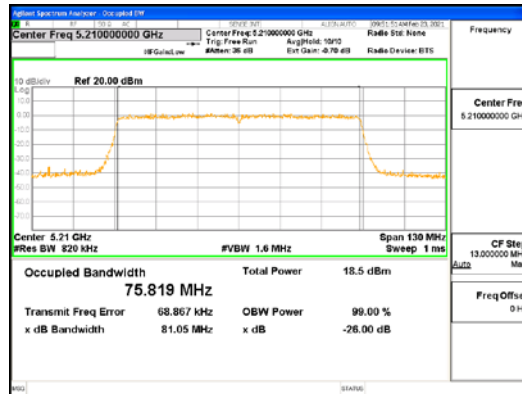
ANT3_802.11ac_VHT80_UNII 2A



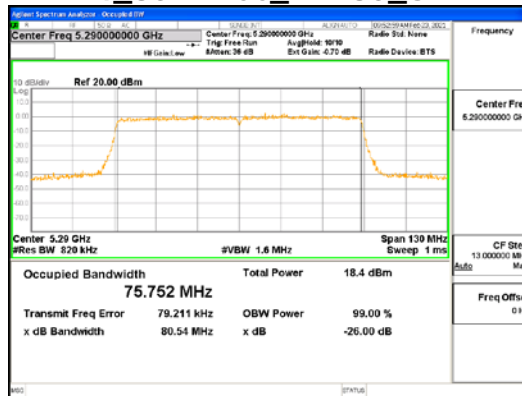
ANT3_802.11ac_VHT80_UNII 2C



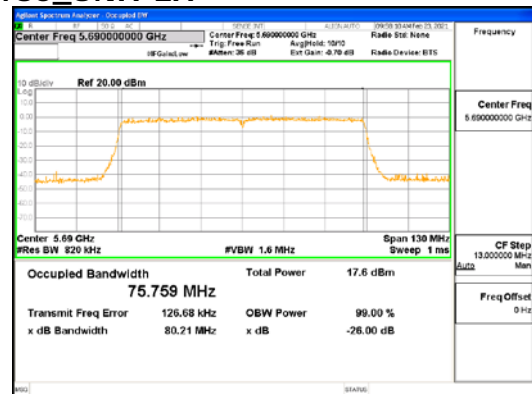
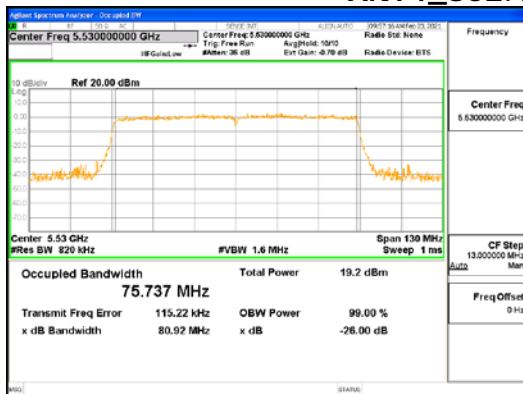
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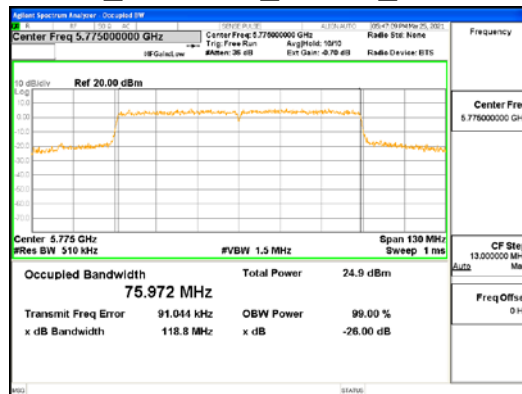
ANT4_802.11ac_VHT80_UNII 1



ANT4_802.11ac_VHT80_UNII 2A



ANT4_802.11ac_VHT80_UNII 2C



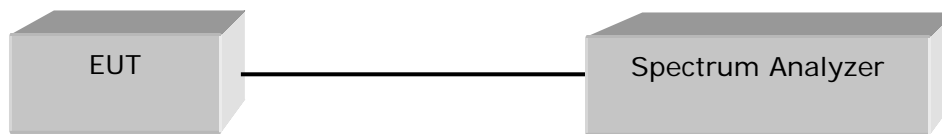
ANT4_802.11ac_VHT80_UNII 3

4.3 OUTPUT POWER

Test Procedures

KDB 789033 – Section E.2.d (Method SA-2, Maximum Conducted Output Power)
KDB 662911 D01, D02 (Multiple Transmitter Output)

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz
- b) VBW $\geq 3 \times$ RBW
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100
- f) Duty cycle factor = $10\log(1/x)$

| Test mode | Duty Cycle Factor (dB) |
|----------------|------------------------|
| 802.11a | 0.21 |
| 802.11n_HT20 | 0.21 |
| 802.11n_HT40 | 0.42 |
| 802.11ac_VHT20 | 0.00 |
| 802.11ac_VHT40 | 0.11 |
| 802.11ac_VHT80 | 0.25 |



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Limit

| Operating Mode | ANT Configuration | ANT Gain (dBi) | Mode | Band | Limit (dBm) |
|----------------|------------------------------------|----------------|--------------|---------|-------------|
| SISO | ANT1, ANT3, ANT4 | 1.9 | 802.11a/n/ac | UNII 1 | 24.00 |
| | | | | UNII 2A | 24.00 |
| | UNII 2C | 24.00 | | | |
| | UNII 3 | 30.00 | | | |
| | ANT2 | 2.0 | | | |
| MIMO (4Tx) | ANT1 + ANT2 + ANT3 + ANT4 | 7.95 | 802.11a/n/ac | UNII 1 | 22.05 |
| | | | | UNII 2A | 22.05 |
| | | | | UNII 2C | 22.05 |
| | | | | UNII 3 | 28.05 |

Test Data

ANT1

| Test Mode | Frequency (MHz) | Measured Output Power (dBm) | Duty cycle Factor (dB) | Result Output Power (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-----------------|-----------------------------|------------------------|---------------------------|-------------|-------------|
| 802.11a | 5 180 | 11.91 | 0.21 | 12.12 | 24.00 | 11.88 |
| | 5 200 | 11.84 | 0.21 | 12.05 | 24.00 | 11.95 |
| | 5 240 | 11.53 | 0.21 | 11.74 | 24.00 | 12.26 |
| | 5 260 | 11.53 | 0.21 | 11.74 | 24.00 | 12.26 |
| | 5 300 | 11.92 | 0.21 | 12.13 | 24.00 | 11.87 |
| | 5 320 | 11.78 | 0.21 | 11.99 | 24.00 | 12.01 |
| | 5 500 | 11.90 | 0.21 | 12.11 | 24.00 | 11.89 |
| | 5 600 | 11.04 | 0.21 | 11.25 | 24.00 | 12.75 |
| | 5 720 | 9.72 | 0.21 | 9.93 | 24.00 | 14.07 |
| | 5 745 | 19.58 | 0.21 | 19.79 | 30.00 | 10.21 |
| | 5 785 | 19.20 | 0.21 | 19.41 | 30.00 | 10.59 |
| | 5 825 | 19.95 | 0.21 | 20.16 | 30.00 | 9.84 |
| 802.11n _HT20 | 5 180 | 12.01 | 0.21 | 12.22 | 24.00 | 11.78 |
| | 5 200 | 11.74 | 0.21 | 11.95 | 24.00 | 12.05 |
| | 5 240 | 11.54 | 0.21 | 11.75 | 24.00 | 12.25 |
| | 5 260 | 11.62 | 0.21 | 11.83 | 24.00 | 12.17 |
| | 5 300 | 11.95 | 0.21 | 12.16 | 24.00 | 11.84 |
| | 5 320 | 11.87 | 0.21 | 12.08 | 24.00 | 11.92 |
| | 5 500 | 11.91 | 0.21 | 12.12 | 24.00 | 11.88 |
| | 5 600 | 11.18 | 0.21 | 11.39 | 24.00 | 12.61 |
| | 5 720 | 11.33 | 0.21 | 11.54 | 24.00 | 12.46 |
| | 5 745 | 19.44 | 0.21 | 19.65 | 30.00 | 10.35 |
| | 5 785 | 18.98 | 0.21 | 19.19 | 30.00 | 10.81 |
| | 5 825 | 19.69 | 0.21 | 19.90 | 30.00 | 10.10 |
| 802.11ac _VHT20 | 5 180 | 12.04 | 0.00 | 12.04 | 24.00 | 11.96 |
| | 5 200 | 11.83 | 0.00 | 11.83 | 24.00 | 12.17 |
| | 5 240 | 11.59 | 0.00 | 11.59 | 24.00 | 12.41 |
| | 5 260 | 11.85 | 0.00 | 11.85 | 24.00 | 12.15 |
| | 5 300 | 12.00 | 0.00 | 12.00 | 24.00 | 12.00 |
| | 5 320 | 11.89 | 0.00 | 11.89 | 24.00 | 12.11 |
| | 5 500 | 12.02 | 0.00 | 12.02 | 24.00 | 11.98 |
| | 5 600 | 11.26 | 0.00 | 11.26 | 24.00 | 12.74 |
| | 5 720 | 9.82 | 0.00 | 9.82 | 24.00 | 14.18 |



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| | | | | | | |
|-------------------------|-------|----------|------|-------|-------|-------|
| | 5 745 | 19.69 | 0.00 | 19.69 | 30.00 | 10.31 |
| | 5 785 | 19.26 | 0.00 | 19.26 | 30.00 | 10.74 |
| | 5 825 | 19.94 | 0.00 | 19.94 | 30.00 | 10.06 |
| 802.11n _HT40 | 5 190 | 12.56 | 0.42 | 12.98 | 24.00 | 11.02 |
| | 5 230 | 12.26 | 0.42 | 12.68 | 24.00 | 11.32 |
| | 5 270 | 12.68 | 0.42 | 13.10 | 24.00 | 10.90 |
| | 5 310 | 12.55 | 0.42 | 12.97 | 24.00 | 11.03 |
| | 5 510 | 14.19 | 0.42 | 14.61 | 24.00 | 9.39 |
| | 5 590 | 13.57 | 0.42 | 13.99 | 24.00 | 10.01 |
| | 5 710 | 12.06 | 0.42 | 12.48 | 24.00 | 11.52 |
| | 5 755 | 18.11 | 0.42 | 18.53 | 30.00 | 11.47 |
| | 5 795 | 17.79 | 0.42 | 18.21 | 30.00 | 11.79 |
| 802.11ac _VHT40 | 5 190 | 12.86 | 0.11 | 12.97 | 24.00 | 11.03 |
| | 5 230 | 12.42 | 0.11 | 12.53 | 24.00 | 11.47 |
| | 5 270 | 12.88 | 0.11 | 12.99 | 24.00 | 11.01 |
| | 5 310 | 12.98 | 0.11 | 13.09 | 24.00 | 10.91 |
| | 5 510 | 14.45 | 0.11 | 14.56 | 24.00 | 9.44 |
| | 5 590 | 13.77 | 0.11 | 13.88 | 24.00 | 10.12 |
| | 5 710 | 12.45 | 0.11 | 12.56 | 24.00 | 11.44 |
| | 5 755 | 17.78 | 0.11 | 17.89 | 30.00 | 12.11 |
| | 5 795 | 17.62 | 0.11 | 17.73 | 30.00 | 12.27 |
| 802.11ac _VHT80 | 5 210 | 12.76 | 0.25 | 13.01 | 24.00 | 10.99 |
| | 5 290 | 13.09 | 0.25 | 13.34 | 24.00 | 10.66 |
| | 5 530 | 14.43 | 0.25 | 14.68 | 24.00 | 9.32 |
| | 5 690 | 12.67 | 0.25 | 12.92 | 24.00 | 11.08 |
| | 5 775 | 16.23 | 0.25 | 16.48 | 30.00 | 13.52 |
| Measurement uncertainty | | ± 1.5 dB | | | | |

ANT2

| Test Mode | Frequency (MHz) | Measured Output Power (dBm) | Duty cycle Factor (dB) | Result Output Power (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|------------------|-----------------------------|------------------------|---------------------------|-------------|-------------|
| 802.11a | 5 180 | 10.69 | 0.21 | 10.90 | 24.00 | 13.10 |
| | 5 200 | 10.47 | 0.21 | 10.68 | 24.00 | 13.32 |
| | 5 240 | 10.56 | 0.21 | 10.77 | 24.00 | 13.23 |
| | 5 260 | 10.68 | 0.21 | 10.89 | 24.00 | 13.11 |
| | 5 300 | 10.76 | 0.21 | 10.97 | 24.00 | 13.03 |
| | 5 320 | 11.11 | 0.21 | 11.32 | 24.00 | 12.68 |
| | 5 500 | 10.49 | 0.21 | 10.70 | 24.00 | 13.30 |
| | 5 600 | 9.31 | 0.21 | 9.52 | 24.00 | 14.48 |
| | 5 720 | 7.63 | 0.21 | 7.84 | 24.00 | 16.16 |
| | 5 745 | 18.60 | 0.21 | 18.81 | 30.00 | 11.19 |
| | 5 785 | 18.04 | 0.21 | 18.25 | 30.00 | 11.75 |
| | 5 825 | 17.65 | 0.21 | 17.86 | 30.00 | 12.14 |
| | 802.11n _HT20 | 5 180 | 10.76 | 0.21 | 10.97 | 24.00 |
| 5 200 | | 10.60 | 0.21 | 10.81 | 24.00 | 13.19 |
| 5 240 | | 10.79 | 0.21 | 11.00 | 24.00 | 13.00 |
| 5 260 | | 10.93 | 0.21 | 11.14 | 24.00 | 12.86 |
| 5 300 | | 10.83 | 0.21 | 11.04 | 24.00 | 12.96 |
| 5 320 | | 11.22 | 0.21 | 11.43 | 24.00 | 12.57 |
| 5 500 | | 10.59 | 0.21 | 10.80 | 24.00 | 13.20 |
| 5 600 | | 9.57 | 0.21 | 9.78 | 24.00 | 14.22 |
| 5 720 | | 9.57 | 0.21 | 9.78 | 24.00 | 14.22 |
| 5 745 | | 18.33 | 0.21 | 18.54 | 30.00 | 11.46 |
| 5 785 | | 17.98 | 0.21 | 18.19 | 30.00 | 11.81 |
| 5 825 | | 17.45 | 0.21 | 17.66 | 30.00 | 12.34 |
| 802.11ac _VHT20 | 5 180 | 10.93 | 0.00 | 10.93 | 24.00 | 13.07 |
| | 5 200 | 10.62 | 0.00 | 10.62 | 24.00 | 13.38 |
| | 5 240 | 10.78 | 0.00 | 10.78 | 24.00 | 13.22 |
| | 5 260 | 10.93 | 0.00 | 10.93 | 24.00 | 13.07 |
| | 5 300 | 10.88 | 0.00 | 10.88 | 24.00 | 13.12 |
| | 5 320 | 11.27 | 0.00 | 11.27 | 24.00 | 12.73 |
| | 5 500 | 10.63 | 0.00 | 10.63 | 24.00 | 13.37 |
| | 5 600 | 9.33 | 0.00 | 9.33 | 24.00 | 14.67 |
| | 5 720 | 7.86 | 0.00 | 7.86 | 24.00 | 16.14 |
| | 5 745 | 18.44 | 0.00 | 18.44 | 30.00 | 11.56 |



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|-------------------------|-------|----------|------|-------|-------|-------|
| | 5 785 | 18.13 | 0.00 | 18.13 | 30.00 | 11.87 |
| | 5 825 | 17.58 | 0.00 | 17.58 | 30.00 | 12.42 |
| 802.11n _HT40 | 5 190 | 10.88 | 0.42 | 11.30 | 24.00 | 12.70 |
| | 5 230 | 10.98 | 0.42 | 11.40 | 24.00 | 12.60 |
| | 5 270 | 11.20 | 0.42 | 11.62 | 24.00 | 12.38 |
| | 5 310 | 11.37 | 0.42 | 11.79 | 24.00 | 12.21 |
| | 5 510 | 12.55 | 0.42 | 12.97 | 24.00 | 11.03 |
| | 5 590 | 11.63 | 0.42 | 12.05 | 24.00 | 11.95 |
| | 5 710 | 9.87 | 0.42 | 10.29 | 24.00 | 13.71 |
| | 5 755 | 19.10 | 0.42 | 19.52 | 30.00 | 10.48 |
| | 5 795 | 19.18 | 0.42 | 19.60 | 30.00 | 10.40 |
| 802.11ac _VHT40 | 5 190 | 11.66 | 0.11 | 11.77 | 24.00 | 12.23 |
| | 5 230 | 11.60 | 0.11 | 11.71 | 24.00 | 12.29 |
| | 5 270 | 11.83 | 0.11 | 11.94 | 24.00 | 12.06 |
| | 5 310 | 12.06 | 0.11 | 12.17 | 24.00 | 11.83 |
| | 5 510 | 13.07 | 0.11 | 13.18 | 24.00 | 10.82 |
| | 5 590 | 12.29 | 0.11 | 12.40 | 24.00 | 11.60 |
| | 5 710 | 10.35 | 0.11 | 10.46 | 24.00 | 13.54 |
| | 5 755 | 18.23 | 0.11 | 18.34 | 30.00 | 11.66 |
| | 5 795 | 18.15 | 0.11 | 18.26 | 30.00 | 11.74 |
| 802.11ac _VHT80 | 5 210 | 11.22 | 0.25 | 11.47 | 24.00 | 12.53 |
| | 5 290 | 11.73 | 0.25 | 11.98 | 24.00 | 12.02 |
| | 5 530 | 12.90 | 0.25 | 13.15 | 24.00 | 10.85 |
| | 5 690 | 10.86 | 0.25 | 11.11 | 24.00 | 12.89 |
| | 5 775 | 16.81 | 0.25 | 17.06 | 30.00 | 12.94 |
| Measurement uncertainty | | ± 1.5 dB | | | | |



ANT3

| Test Mode | Frequency (MHz) | Measured Output Power (dBm) | Duty cycle Factor (dB) | Result Output Power (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-----------------|-----------------------------|------------------------|---------------------------|-------------|-------------|
| 802.11a | 5 180 | 10.49 | 0.21 | 10.70 | 24.00 | 13.30 |
| | 5 200 | 10.42 | 0.21 | 10.63 | 24.00 | 13.37 |
| | 5 240 | 10.15 | 0.21 | 10.36 | 24.00 | 13.64 |
| | 5 260 | 10.26 | 0.21 | 10.47 | 24.00 | 13.53 |
| | 5 300 | 10.72 | 0.21 | 10.93 | 24.00 | 13.07 |
| | 5 320 | 10.54 | 0.21 | 10.75 | 24.00 | 13.25 |
| | 5 500 | 10.72 | 0.21 | 10.93 | 24.00 | 13.07 |
| | 5 600 | 9.78 | 0.21 | 9.99 | 24.00 | 14.01 |
| | 5 720 | 8.60 | 0.21 | 8.81 | 24.00 | 15.19 |
| | 5 745 | 18.94 | 0.21 | 19.15 | 30.00 | 10.85 |
| | 5 785 | 18.57 | 0.21 | 18.78 | 30.00 | 11.22 |
| | 5 825 | 19.26 | 0.21 | 19.47 | 30.00 | 10.53 |
| 802.11n _HT20 | 5 180 | 10.59 | 0.21 | 10.80 | 24.00 | 13.20 |
| | 5 200 | 10.45 | 0.21 | 10.66 | 24.00 | 13.34 |
| | 5 240 | 10.21 | 0.21 | 10.42 | 24.00 | 13.58 |
| | 5 260 | 10.25 | 0.21 | 10.46 | 24.00 | 13.54 |
| | 5 300 | 10.69 | 0.21 | 10.90 | 24.00 | 13.10 |
| | 5 320 | 10.59 | 0.21 | 10.80 | 24.00 | 13.20 |
| | 5 500 | 10.71 | 0.21 | 10.92 | 24.00 | 13.08 |
| | 5 600 | 9.94 | 0.21 | 10.15 | 24.00 | 13.85 |
| | 5 720 | 8.53 | 0.21 | 8.74 | 24.00 | 15.26 |
| | 5 745 | 18.82 | 0.21 | 19.03 | 30.00 | 10.97 |
| | 5 785 | 18.58 | 0.21 | 18.79 | 30.00 | 11.21 |
| | 5 825 | 19.25 | 0.21 | 19.46 | 30.00 | 10.54 |
| 802.11ac _VHT20 | 5 180 | 10.69 | 0.00 | 10.69 | 24.00 | 13.31 |
| | 5 200 | 10.49 | 0.00 | 10.49 | 24.00 | 13.51 |
| | 5 240 | 10.26 | 0.00 | 10.26 | 24.00 | 13.74 |
| | 5 260 | 10.36 | 0.00 | 10.36 | 24.00 | 13.64 |
| | 5 300 | 10.79 | 0.00 | 10.79 | 24.00 | 13.21 |
| | 5 320 | 10.61 | 0.00 | 10.61 | 24.00 | 13.39 |
| | 5 500 | 10.88 | 0.00 | 10.88 | 24.00 | 13.12 |
| | 5 600 | 9.83 | 0.00 | 9.83 | 24.00 | 14.17 |
| | 5 720 | 8.34 | 0.00 | 8.34 | 24.00 | 15.66 |
| | 5 745 | 18.42 | 0.00 | 18.42 | 30.00 | 11.58 |



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|-------------------------|-------|----------|-------|-------|-------|-------|
| | 5 785 | 18.11 | 0.00 | 18.11 | 30.00 | 11.89 |
| | 5 825 | 18.33 | 0.00 | 18.33 | 30.00 | 11.67 |
| 802.11n _HT40 | 5 190 | 11.03 | 0.42 | 11.45 | 24.00 | 12.55 |
| | 5 230 | 10.80 | 0.42 | 11.22 | 24.00 | 12.78 |
| | 5 270 | 11.19 | 0.42 | 11.61 | 24.00 | 12.39 |
| | 5 310 | 11.25 | 0.42 | 11.67 | 24.00 | 12.33 |
| | 5 510 | 12.62 | 0.42 | 13.04 | 24.00 | 10.96 |
| | 5 590 | 12.06 | 0.42 | 12.48 | 24.00 | 11.52 |
| | 5 710 | 10.81 | 0.42 | 11.23 | 24.00 | 12.77 |
| | 5 755 | 18.31 | 0.42 | 18.73 | 30.00 | 11.27 |
| | 5 795 | 18.34 | 0.42 | 18.76 | 30.00 | 11.24 |
| 802.11ac _VHT40 | 5 190 | 11.55 | 0.11 | 11.66 | 24.00 | 12.34 |
| | 5 230 | 11.15 | 0.11 | 11.26 | 24.00 | 12.74 |
| | 5 270 | 11.56 | 0.11 | 11.67 | 24.00 | 12.33 |
| | 5 310 | 11.53 | 0.11 | 11.64 | 24.00 | 12.36 |
| | 5 510 | 13.06 | 0.11 | 13.17 | 24.00 | 10.83 |
| | 5 590 | 12.51 | 0.11 | 12.62 | 24.00 | 11.38 |
| | 5 710 | 11.21 | 0.11 | 11.32 | 24.00 | 12.68 |
| | 5 755 | 18.06 | 0.11 | 18.17 | 30.00 | 11.83 |
| 5 795 | 17.99 | 0.11 | 18.10 | 30.00 | 11.90 | |
| 802.11ac _VHT80 | 5 210 | 11.41 | 0.25 | 11.66 | 24.00 | 12.34 |
| | 5 290 | 11.97 | 0.25 | 12.22 | 24.00 | 11.78 |
| | 5 530 | 13.28 | 0.25 | 13.53 | 24.00 | 10.47 |
| | 5 690 | 11.33 | 0.25 | 11.58 | 24.00 | 12.42 |
| | 5 775 | 16.28 | 0.25 | 16.53 | 30.00 | 13.47 |
| Measurement uncertainty | | ± 1.5 dB | | | | |

ANT4

| Test Mode | Frequency (MHz) | Measured Output Power (dBm) | Duty cycle Factor (dB) | Result Output Power (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-----------------|-----------------------------|------------------------|---------------------------|-------------|-------------|
| 802.11a | 5 180 | 12.06 | 0.21 | 12.27 | 24.00 | 11.73 |
| | 5 200 | 11.76 | 0.21 | 11.97 | 24.00 | 12.03 |
| | 5 240 | 11.66 | 0.21 | 11.87 | 24.00 | 12.13 |
| | 5 260 | 11.75 | 0.21 | 11.96 | 24.00 | 12.04 |
| | 5 300 | 11.36 | 0.21 | 11.57 | 24.00 | 12.43 |
| | 5 320 | 11.75 | 0.21 | 11.96 | 24.00 | 12.04 |
| | 5 500 | 10.85 | 0.21 | 11.06 | 24.00 | 12.94 |
| | 5 600 | 10.84 | 0.21 | 11.05 | 24.00 | 12.95 |
| | 5 720 | 9.61 | 0.21 | 9.82 | 24.00 | 14.18 |
| | 5 745 | 20.99 | 0.21 | 21.20 | 30.00 | 8.80 |
| | 5 785 | 20.20 | 0.21 | 20.41 | 30.00 | 9.59 |
| | 5 825 | 19.83 | 0.21 | 20.04 | 30.00 | 9.96 |
| 802.11n _HT20 | 5 180 | 12.12 | 0.21 | 12.33 | 24.00 | 11.67 |
| | 5 200 | 11.78 | 0.21 | 11.99 | 24.00 | 12.01 |
| | 5 240 | 11.78 | 0.21 | 11.99 | 24.00 | 12.01 |
| | 5 260 | 11.83 | 0.21 | 12.04 | 24.00 | 11.96 |
| | 5 300 | 11.52 | 0.21 | 11.73 | 24.00 | 12.27 |
| | 5 320 | 12.05 | 0.21 | 12.26 | 24.00 | 11.74 |
| | 5 500 | 10.86 | 0.21 | 11.07 | 24.00 | 12.93 |
| | 5 600 | 11.07 | 0.21 | 11.28 | 24.00 | 12.72 |
| | 5 720 | 9.79 | 0.21 | 10.00 | 24.00 | 14.00 |
| | 5 745 | 20.42 | 0.21 | 20.63 | 30.00 | 9.37 |
| | 5 785 | 19.81 | 0.21 | 20.02 | 30.00 | 9.98 |
| | 5 825 | 19.15 | 0.21 | 19.36 | 30.00 | 10.64 |
| 802.11ac _VHT20 | 5 180 | 12.25 | 0.00 | 12.25 | 24.00 | 11.75 |
| | 5 200 | 11.87 | 0.00 | 11.87 | 24.00 | 12.13 |
| | 5 240 | 11.96 | 0.00 | 11.96 | 24.00 | 12.04 |
| | 5 260 | 11.88 | 0.00 | 11.88 | 24.00 | 12.12 |
| | 5 300 | 11.67 | 0.00 | 11.67 | 24.00 | 12.33 |
| | 5 320 | 12.01 | 0.00 | 12.01 | 24.00 | 11.99 |
| | 5 500 | 10.94 | 0.00 | 10.94 | 24.00 | 13.06 |
| | 5 600 | 11.04 | 0.00 | 11.04 | 24.00 | 12.96 |
| | 5 720 | 9.80 | 0.00 | 9.80 | 24.00 | 14.20 |
| | 5 745 | 20.91 | 0.00 | 20.91 | 30.00 | 9.09 |



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|-------------------------|-------|----------|-------|-------|-------|-------|
| | 5 785 | 20.24 | 0.00 | 20.24 | 30.00 | 9.76 |
| | 5 825 | 19.57 | 0.00 | 19.57 | 30.00 | 10.43 |
| 802.11n _HT40 | 5 190 | 12.78 | 0.42 | 13.20 | 24.00 | 10.80 |
| | 5 230 | 12.53 | 0.42 | 12.95 | 24.00 | 11.05 |
| | 5 270 | 12.48 | 0.42 | 12.90 | 24.00 | 11.10 |
| | 5 310 | 12.41 | 0.42 | 12.83 | 24.00 | 11.17 |
| | 5 510 | 13.48 | 0.42 | 13.90 | 24.00 | 10.10 |
| | 5 590 | 13.22 | 0.42 | 13.64 | 24.00 | 10.36 |
| | 5 710 | 12.15 | 0.42 | 12.57 | 24.00 | 11.43 |
| | 5 755 | 20.82 | 0.42 | 21.24 | 30.00 | 8.76 |
| | 5 795 | 20.48 | 0.42 | 20.90 | 30.00 | 9.10 |
| 802.11ac _VHT40 | 5 190 | 13.06 | 0.11 | 13.17 | 24.00 | 10.83 |
| | 5 230 | 12.84 | 0.11 | 12.95 | 24.00 | 11.05 |
| | 5 270 | 12.78 | 0.11 | 12.89 | 24.00 | 11.11 |
| | 5 310 | 12.82 | 0.11 | 12.93 | 24.00 | 11.07 |
| | 5 510 | 13.66 | 0.11 | 13.77 | 24.00 | 10.23 |
| | 5 590 | 13.68 | 0.11 | 13.79 | 24.00 | 10.21 |
| | 5 710 | 12.46 | 0.11 | 12.57 | 24.00 | 11.43 |
| | 5 755 | 21.20 | 0.11 | 21.31 | 30.00 | 8.69 |
| 5 795 | 20.94 | 0.11 | 21.05 | 30.00 | 8.95 | |
| 802.11ac _VHT80 | 5 210 | 12.36 | 0.25 | 12.61 | 24.00 | 11.39 |
| | 5 290 | 12.15 | 0.25 | 12.40 | 24.00 | 11.60 |
| | 5 530 | 12.98 | 0.25 | 13.23 | 24.00 | 10.77 |
| | 5 690 | 11.28 | 0.25 | 11.53 | 24.00 | 12.47 |
| | 5 775 | 18.43 | 0.25 | 18.68 | 30.00 | 11.32 |
| Measurement uncertainty | | ± 1.5 dB | | | | |

ANT1 + ANT2 + ANT3 + ANT4

| Test Mode | Frequency (MHz) | Measured Output Power (dBm) | Duty cycle Factor (dB) | Result Output Power (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|-----------------|-----------------------------|------------------------|---------------------------|-------------|-------------|
| 802.11a | 5 180 | 17.36 | 0.21 | 17.57 | 22.05 | 4.48 |
| | 5 200 | 17.20 | 0.21 | 17.41 | 22.05 | 4.64 |
| | 5 240 | 17.04 | 0.21 | 17.25 | 22.05 | 4.80 |
| | 5 260 | 17.12 | 0.21 | 17.33 | 22.05 | 4.72 |
| | 5 300 | 17.24 | 0.21 | 17.45 | 22.05 | 4.60 |
| | 5 320 | 17.35 | 0.21 | 17.56 | 22.05 | 4.49 |
| | 5 500 | 17.05 | 0.21 | 17.26 | 22.05 | 4.79 |
| | 5 600 | 16.32 | 0.21 | 16.53 | 22.05 | 5.52 |
| | 5 720 | 14.99 | 0.21 | 15.20 | 22.05 | 6.85 |
| | 5 745 | 25.65 | 0.21 | 25.86 | 28.05 | 2.19 |
| | 5 785 | 25.10 | 0.21 | 25.31 | 28.05 | 2.74 |
| | 5 825 | 25.28 | 0.21 | 25.49 | 28.05 | 2.56 |
| 802.11n _HT20 | 5 180 | 17.45 | 0.21 | 17.66 | 22.05 | 4.39 |
| | 5 200 | 17.21 | 0.21 | 17.42 | 22.05 | 4.63 |
| | 5 240 | 17.14 | 0.21 | 17.35 | 22.05 | 4.70 |
| | 5 260 | 17.22 | 0.21 | 17.43 | 22.05 | 4.62 |
| | 5 300 | 17.30 | 0.21 | 17.51 | 22.05 | 4.54 |
| | 5 320 | 17.49 | 0.21 | 17.70 | 22.05 | 4.35 |
| | 5 500 | 17.07 | 0.21 | 17.28 | 22.05 | 4.77 |
| | 5 600 | 16.52 | 0.21 | 16.73 | 22.05 | 5.32 |
| | 5 720 | 15.94 | 0.21 | 16.15 | 22.05 | 5.90 |
| | 5 745 | 25.34 | 0.21 | 25.55 | 28.05 | 2.50 |
| | 5 785 | 24.91 | 0.21 | 25.12 | 28.05 | 2.93 |
| | 5 825 | 24.98 | 0.21 | 25.19 | 28.05 | 2.86 |
| 802.11ac _VHT20 | 5 180 | 17.55 | 0.00 | 17.55 | 22.05 | 4.50 |
| | 5 200 | 17.27 | 0.00 | 17.27 | 22.05 | 4.78 |
| | 5 240 | 17.22 | 0.00 | 17.22 | 22.05 | 4.83 |
| | 5 260 | 17.32 | 0.00 | 17.32 | 22.05 | 4.73 |
| | 5 300 | 17.39 | 0.00 | 17.39 | 22.05 | 4.66 |
| | 5 320 | 17.50 | 0.00 | 17.50 | 22.05 | 4.55 |
| | 5 500 | 17.17 | 0.00 | 17.17 | 22.05 | 4.88 |
| | 5 600 | 16.46 | 0.00 | 16.46 | 22.05 | 5.59 |
| | 5 720 | 15.06 | 0.00 | 15.06 | 22.05 | 6.99 |
| | 5 745 | 25.51 | 0.00 | 25.51 | 28.05 | 2.54 |



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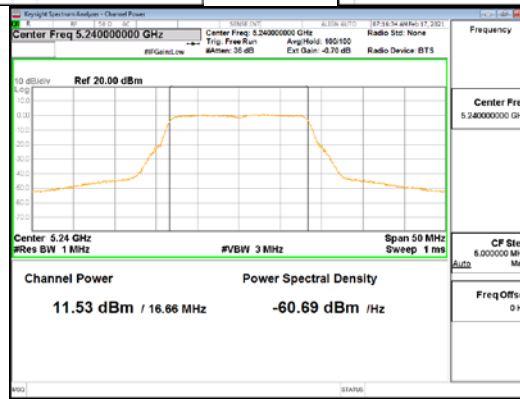
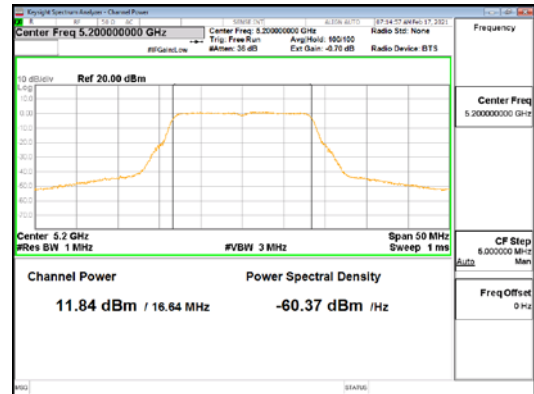
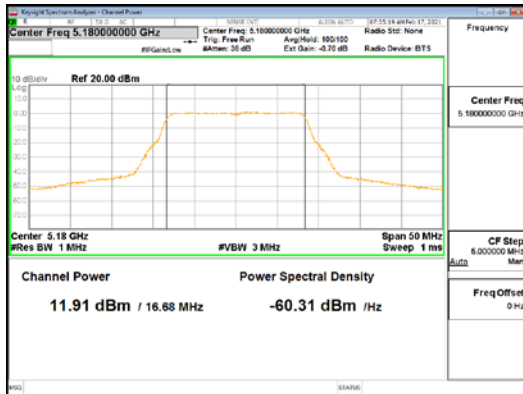
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|-------------------------|-------|----------|-------|-------|-------|------|
| | 5 785 | 25.05 | 0.00 | 25.05 | 28.05 | 3.00 |
| | 5 825 | 24.98 | 0.00 | 24.98 | 28.05 | 3.07 |
| 802.11n _HT40 | 5 190 | 17.92 | 0.42 | 18.34 | 22.05 | 3.71 |
| | 5 230 | 17.73 | 0.42 | 18.15 | 22.05 | 3.90 |
| | 5 270 | 17.96 | 0.42 | 18.38 | 22.05 | 3.67 |
| | 5 310 | 17.96 | 0.42 | 18.38 | 22.05 | 3.67 |
| | 5 510 | 19.28 | 0.42 | 19.70 | 22.05 | 2.35 |
| | 5 590 | 18.71 | 0.42 | 19.13 | 22.05 | 2.92 |
| | 5 710 | 17.34 | 0.42 | 17.76 | 22.05 | 4.29 |
| | 5 755 | 25.24 | 0.42 | 25.66 | 28.05 | 2.39 |
| | 5 795 | 25.09 | 0.42 | 25.51 | 28.05 | 2.54 |
| 802.11ac _VHT40 | 5 190 | 18.36 | 0.11 | 18.47 | 22.05 | 3.58 |
| | 5 230 | 18.07 | 0.11 | 18.18 | 22.05 | 3.87 |
| | 5 270 | 18.32 | 0.11 | 18.43 | 22.05 | 3.62 |
| | 5 310 | 18.41 | 0.11 | 18.52 | 22.05 | 3.53 |
| | 5 510 | 19.62 | 0.11 | 19.73 | 22.05 | 2.32 |
| | 5 590 | 19.13 | 0.11 | 19.24 | 22.05 | 2.81 |
| | 5 710 | 17.73 | 0.11 | 17.84 | 22.05 | 4.21 |
| | 5 755 | 25.08 | 0.11 | 25.19 | 28.05 | 2.86 |
| 5 795 | 24.92 | 0.11 | 25.03 | 28.05 | 3.02 | |
| 802.11ac _VHT80 | 5 210 | 18.01 | 0.25 | 18.26 | 22.05 | 3.79 |
| | 5 290 | 18.29 | 0.25 | 18.54 | 22.05 | 3.51 |
| | 5 530 | 19.46 | 0.25 | 19.71 | 22.05 | 2.34 |
| | 5 690 | 17.61 | 0.25 | 17.86 | 22.05 | 4.19 |
| | 5 775 | 23.06 | 0.25 | 23.31 | 28.05 | 4.74 |
| Measurement uncertainty | | ± 1.5 dB | | | | |

See next pages for actual measured spectrum plots.

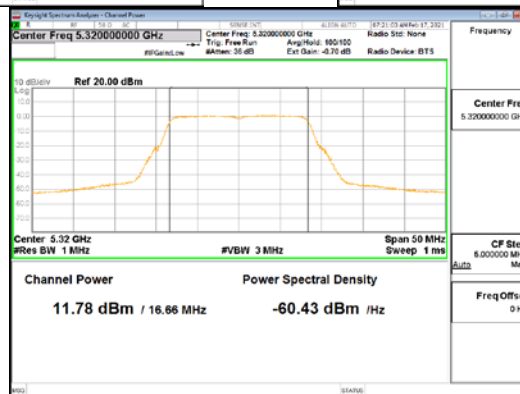
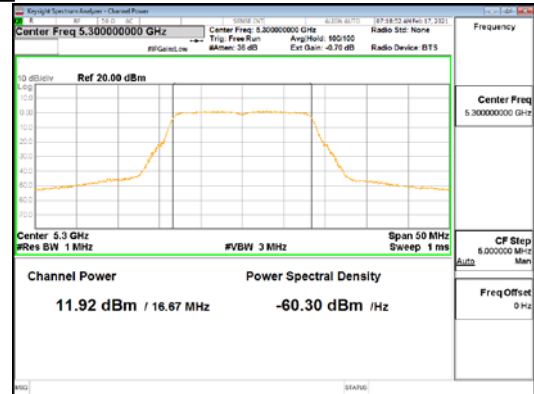
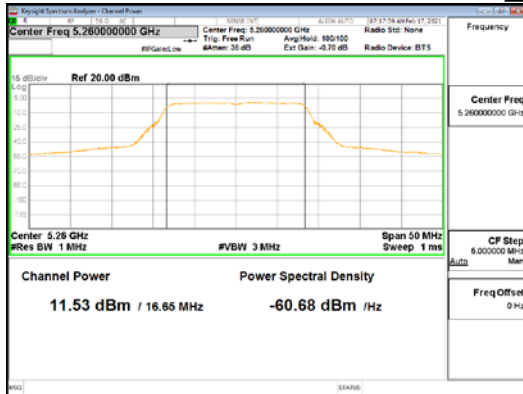


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ANT1_802.11a_UNII 1

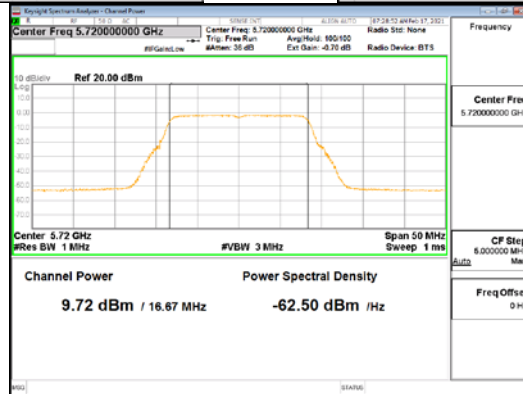
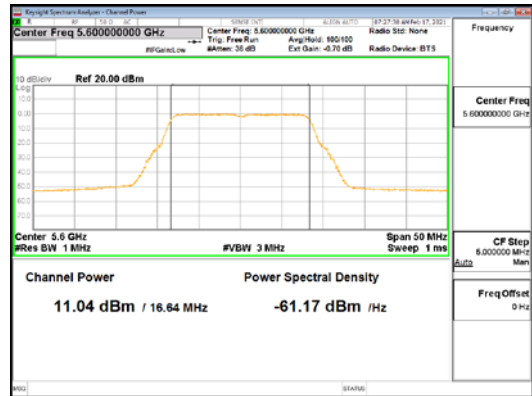
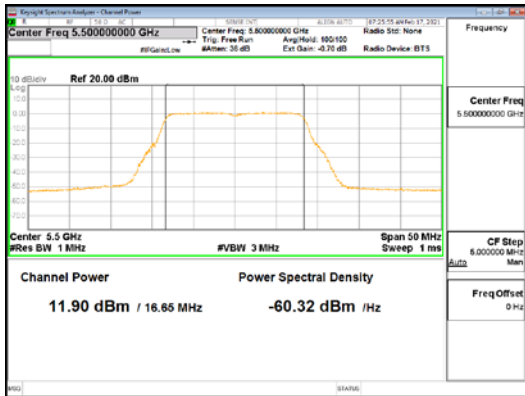


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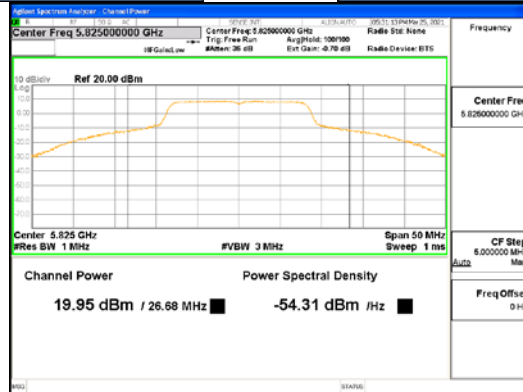
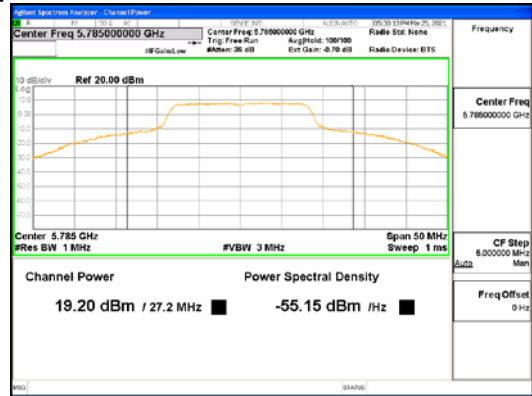
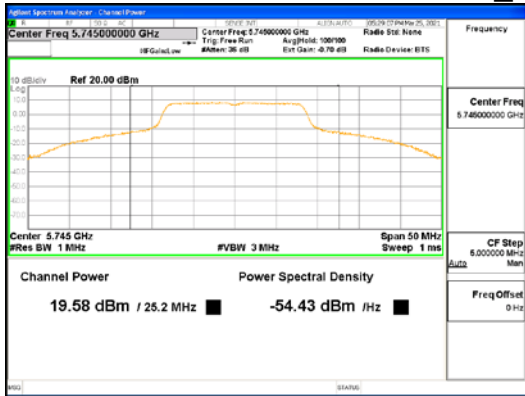


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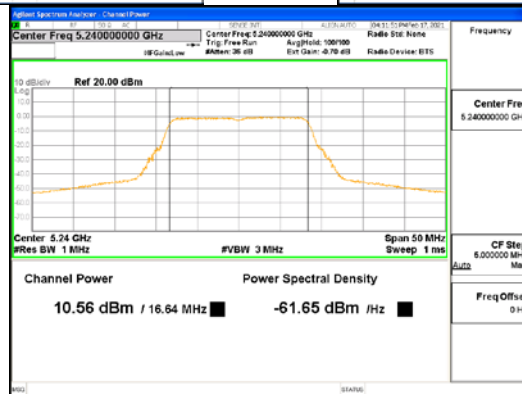
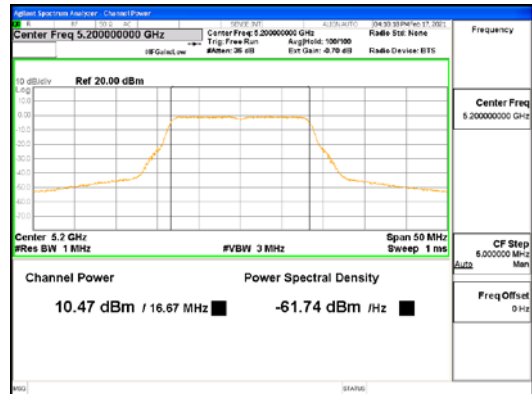
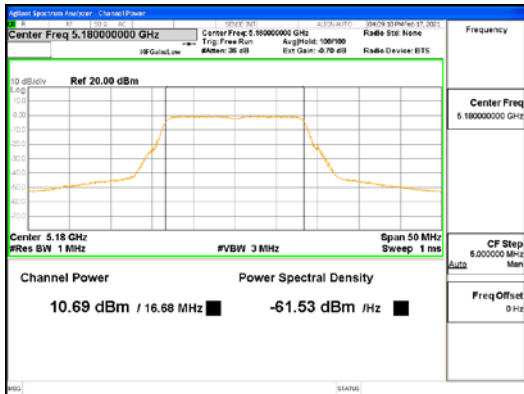


ANT1_802.11a_UNII 3

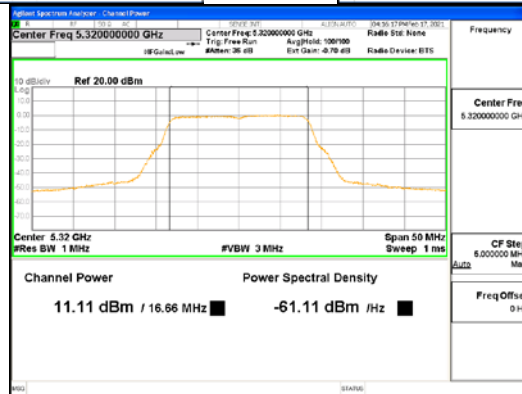
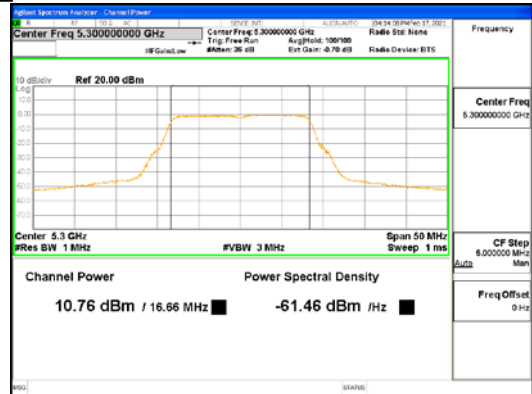
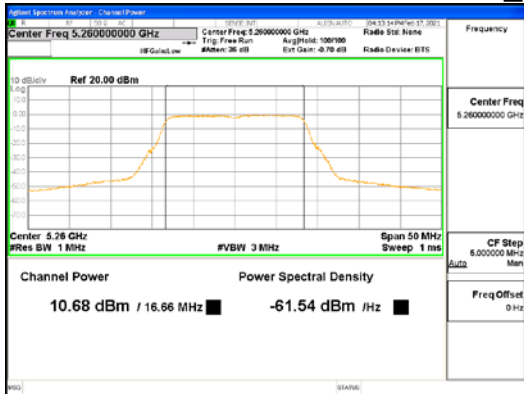


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ANT2_802.11a_UNII 1

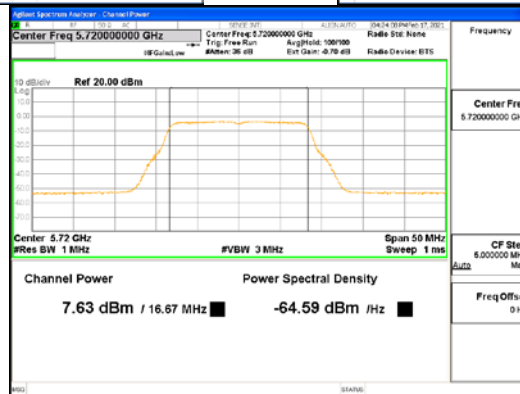
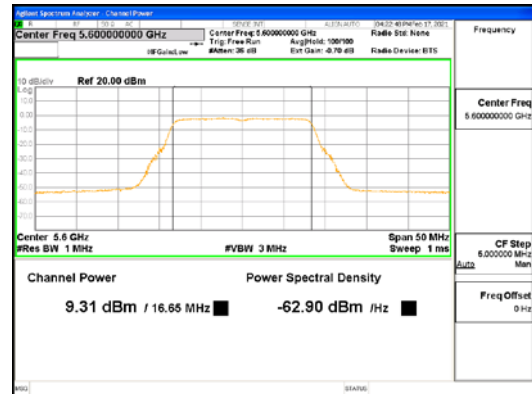
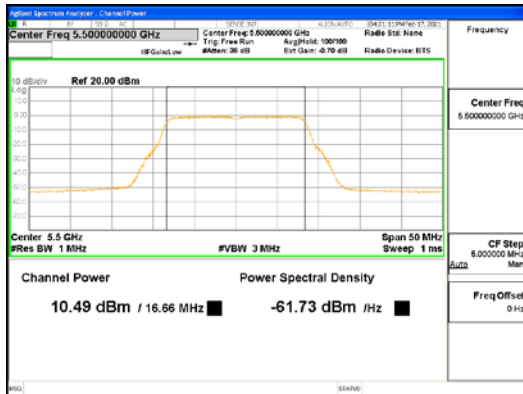


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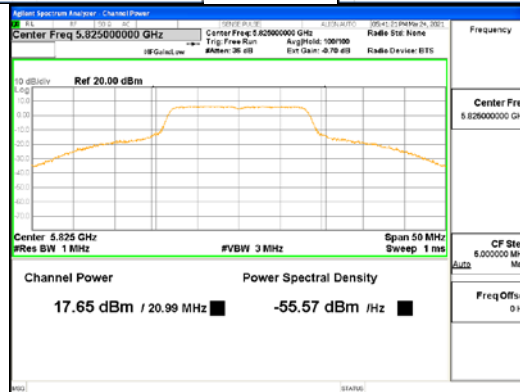
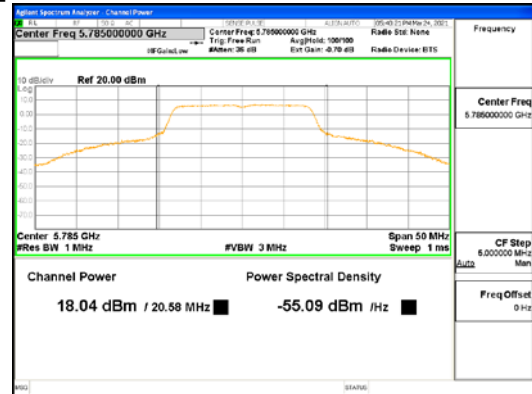
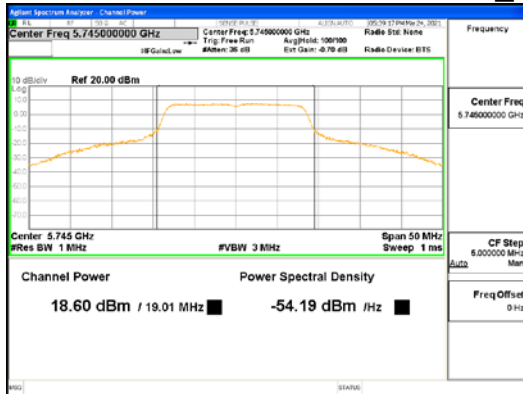


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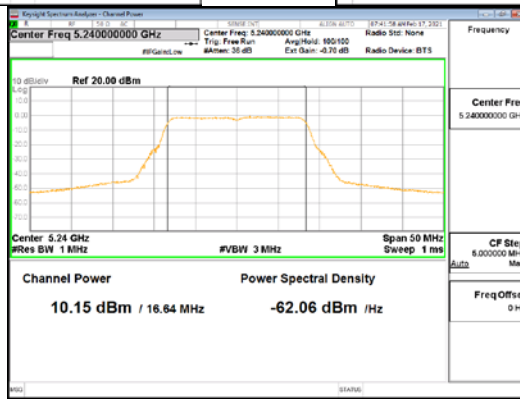
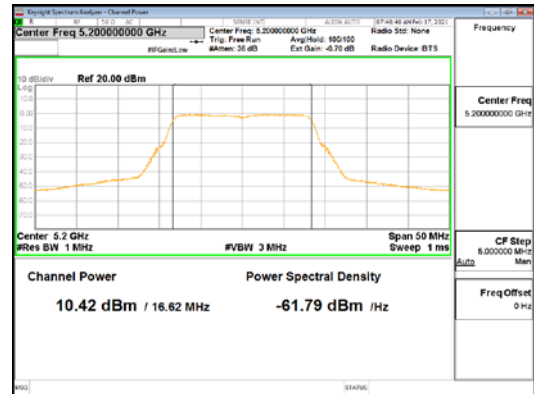
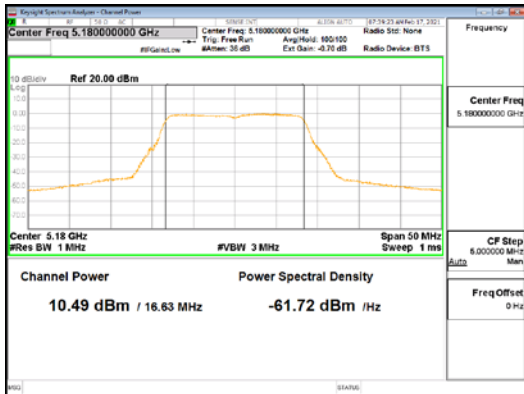


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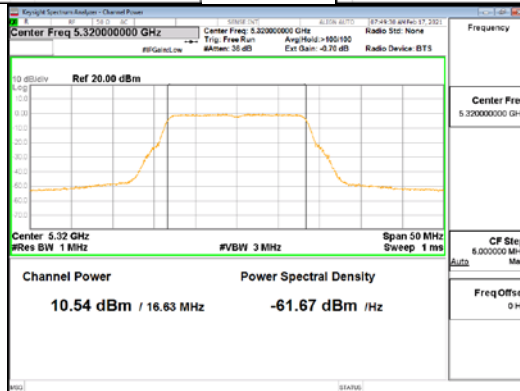
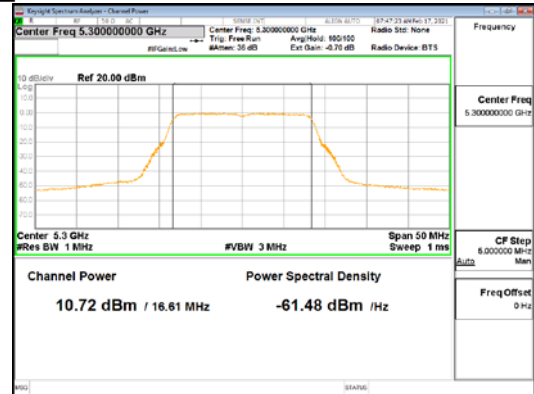
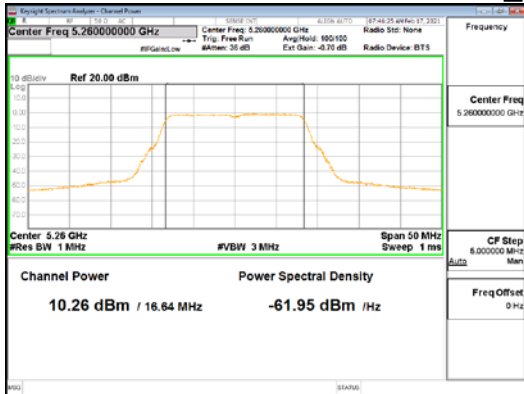


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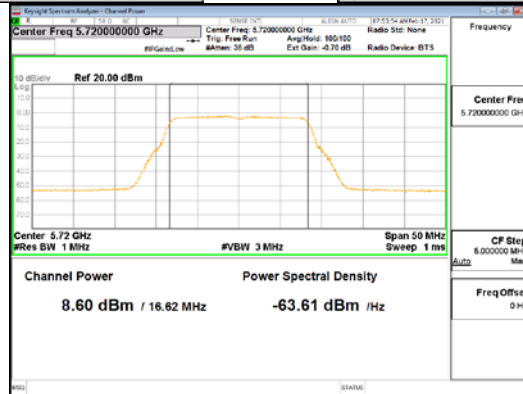
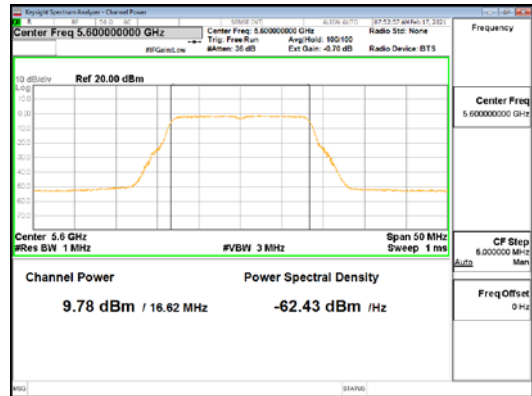
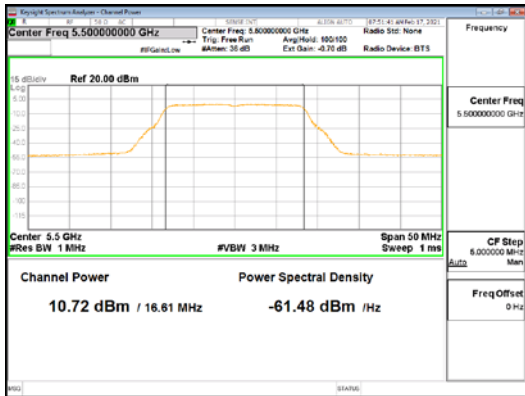


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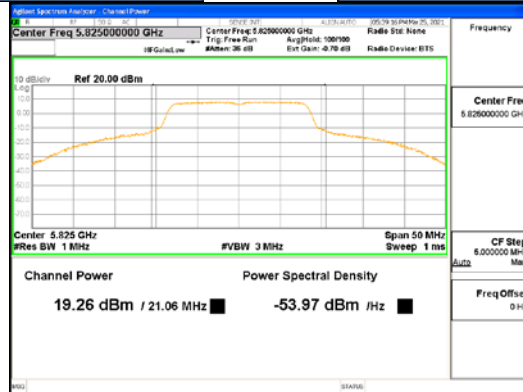
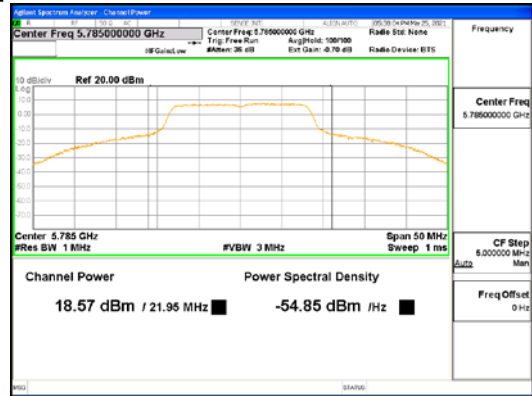
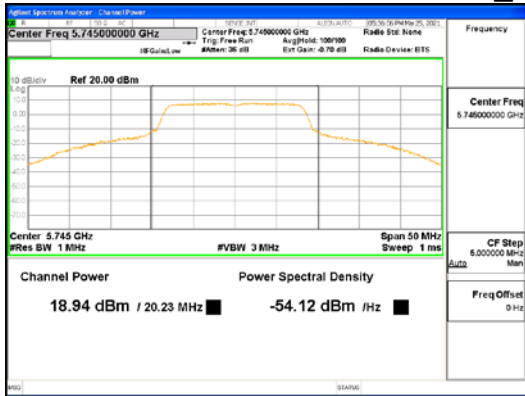


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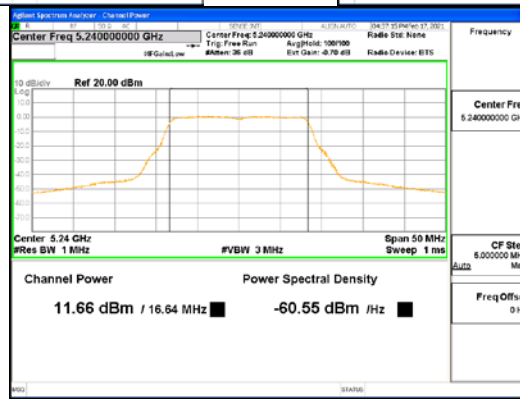
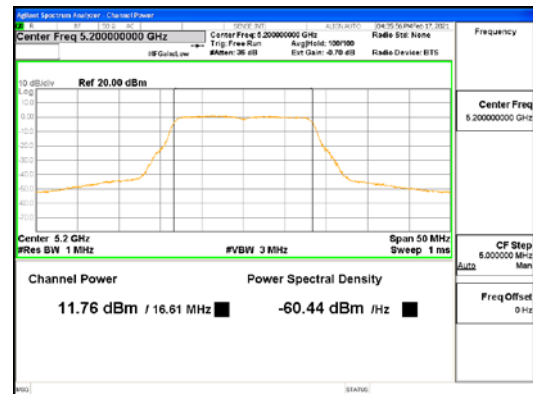
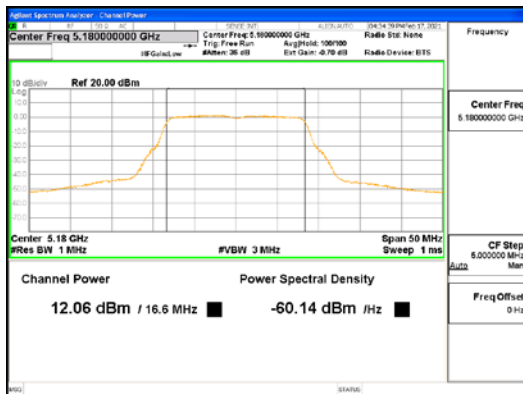


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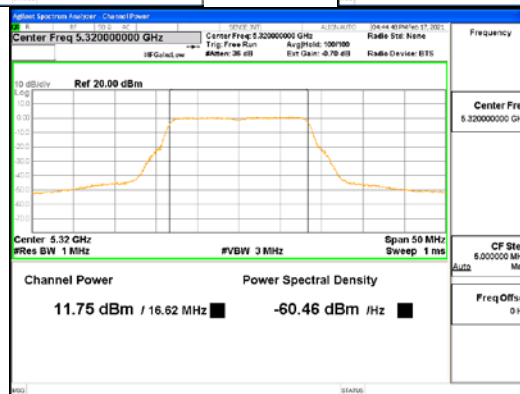
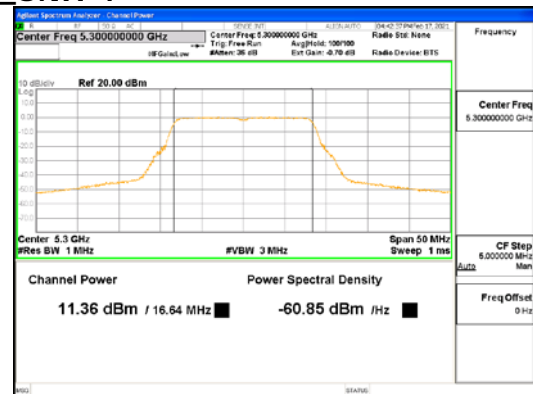
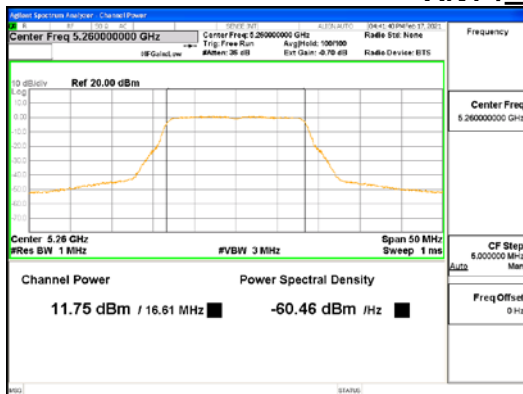


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ANT4_802.11a_UNII 1

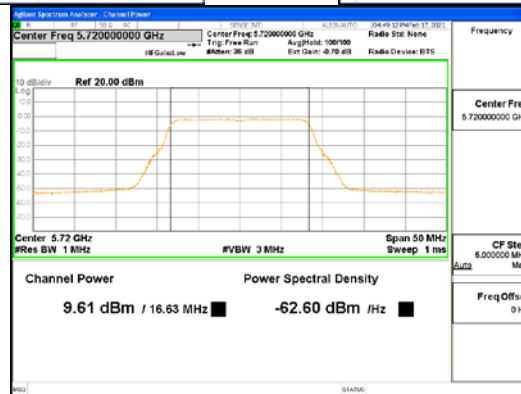
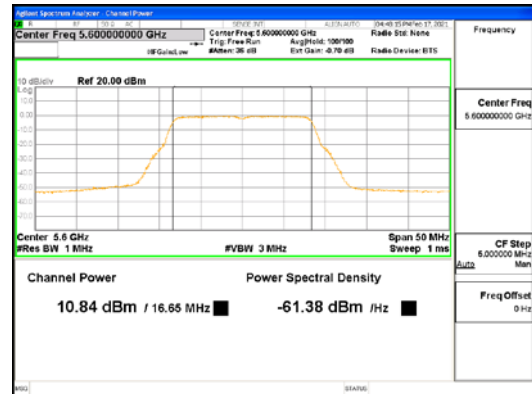
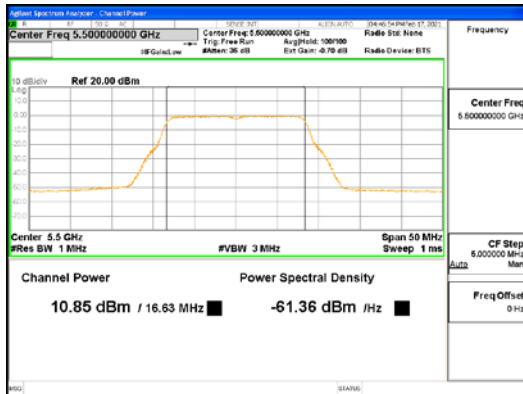


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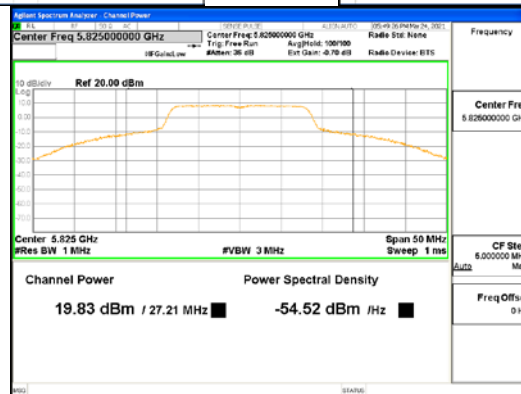
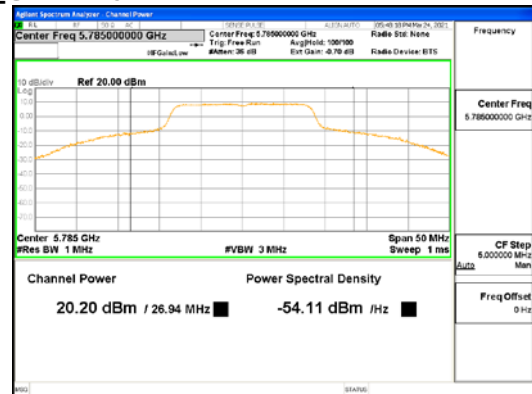
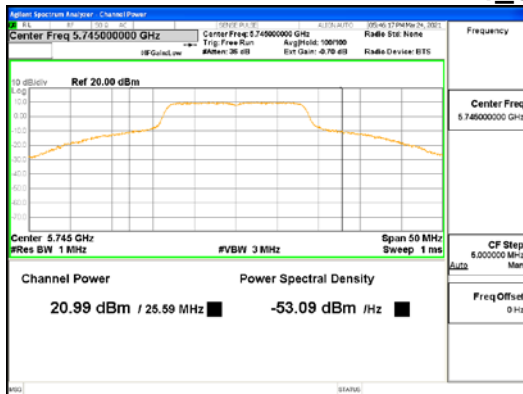


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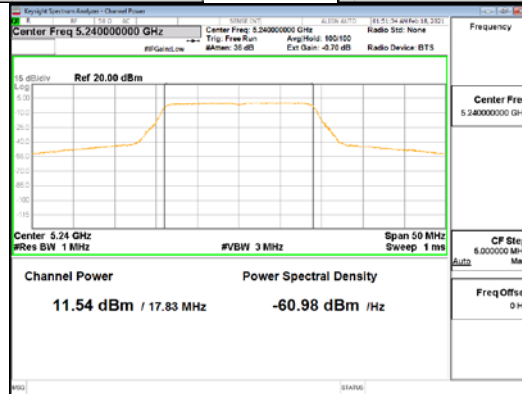
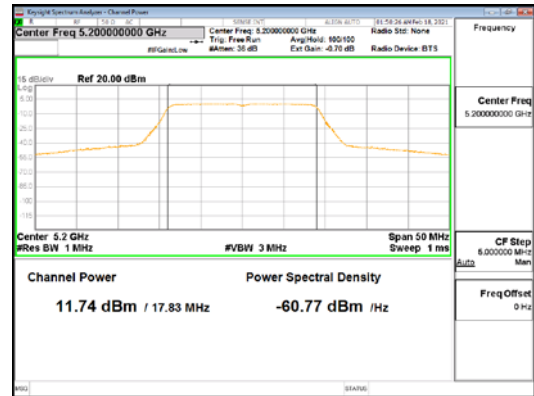
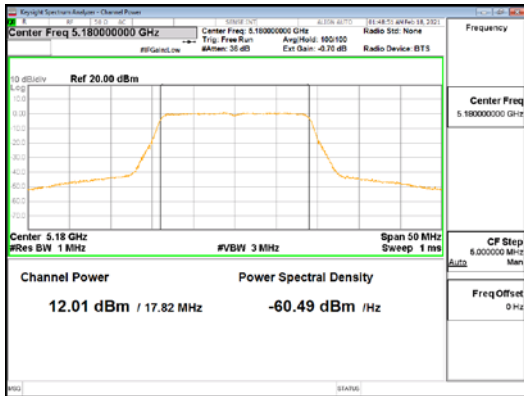


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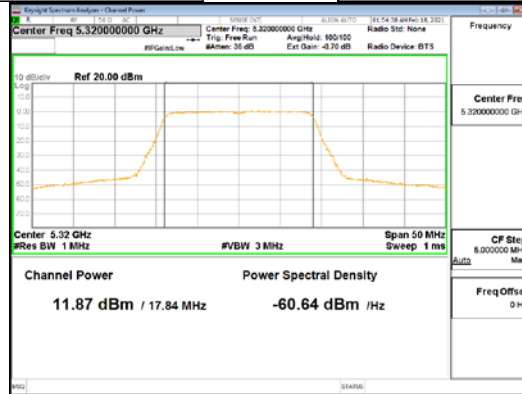
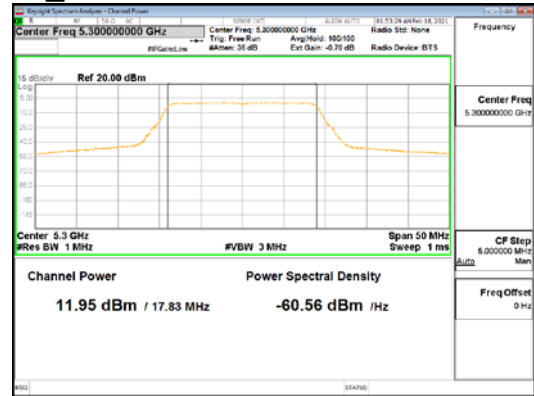
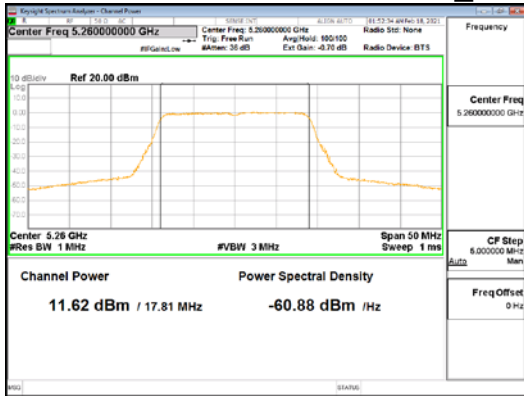


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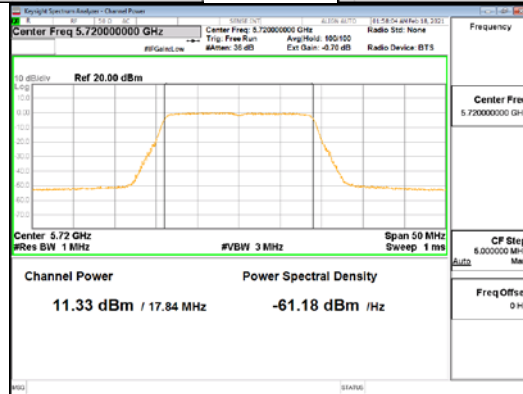
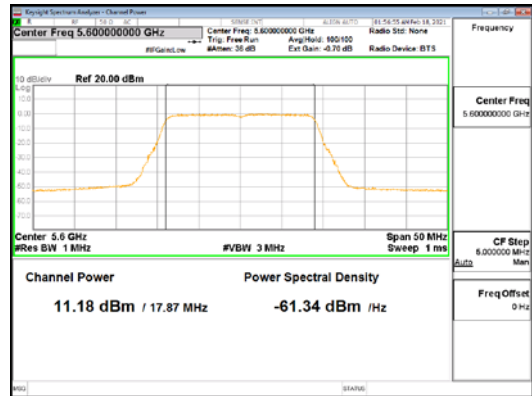
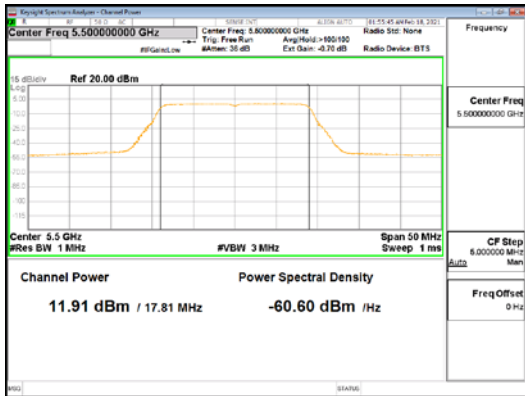


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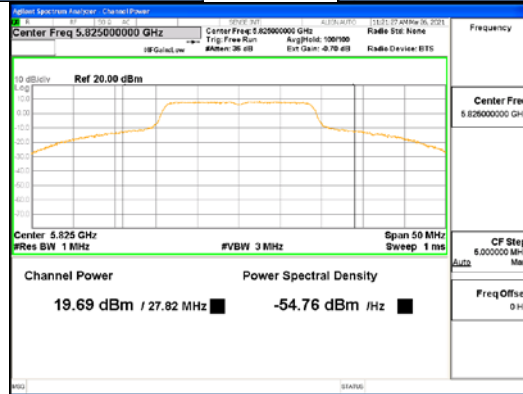
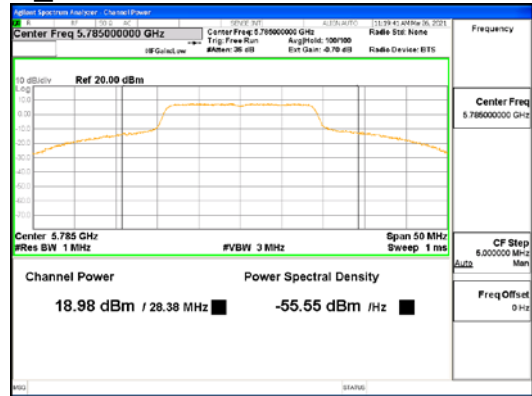
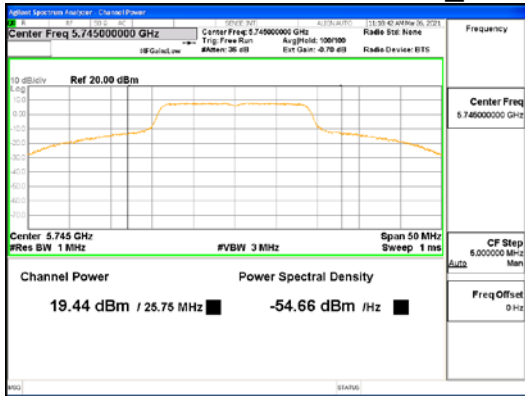


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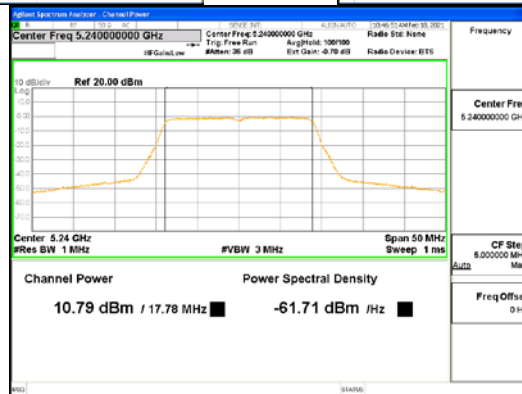
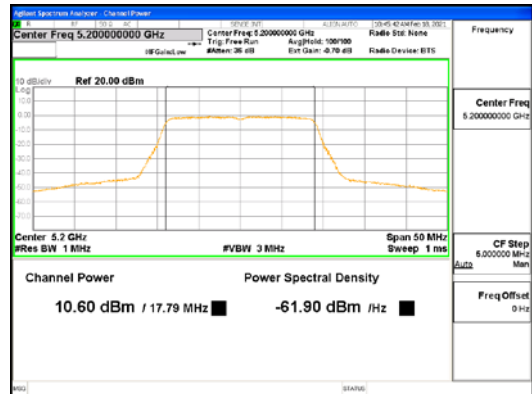
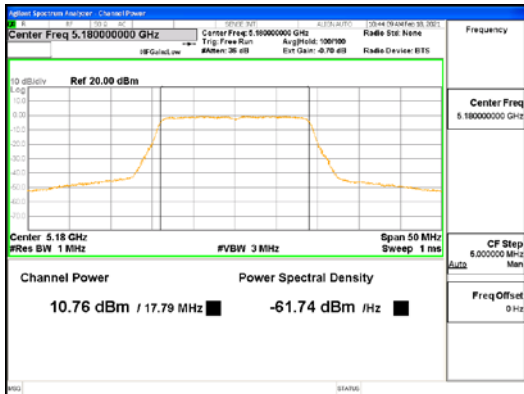


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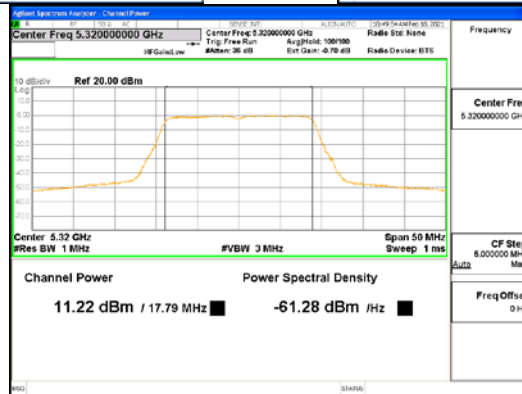
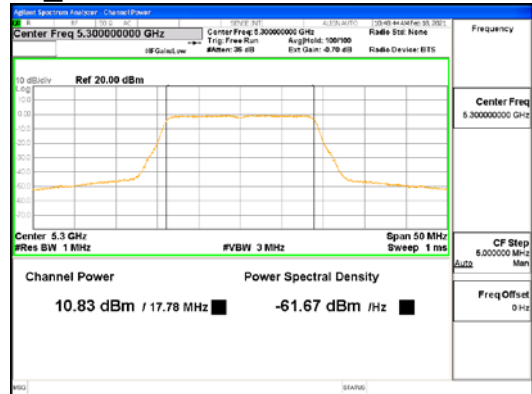
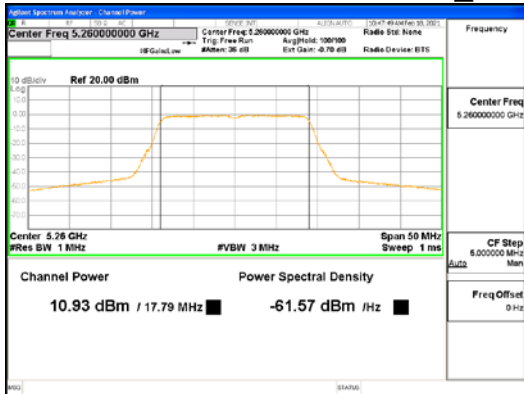


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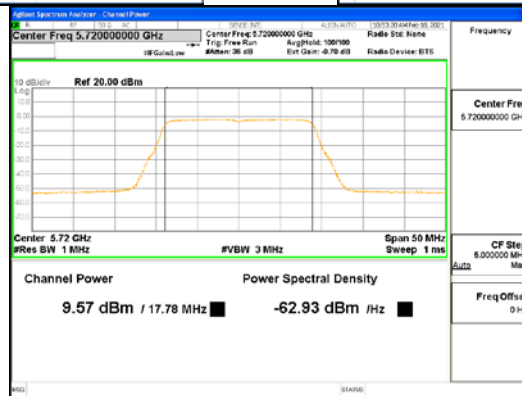
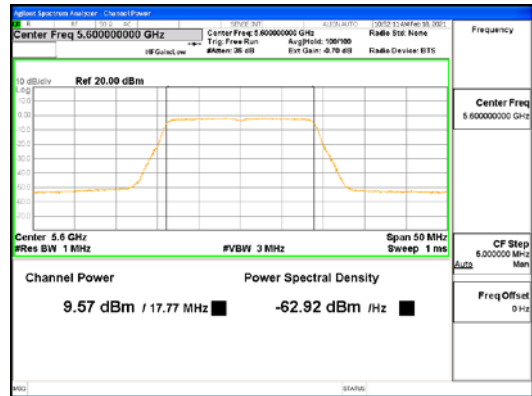
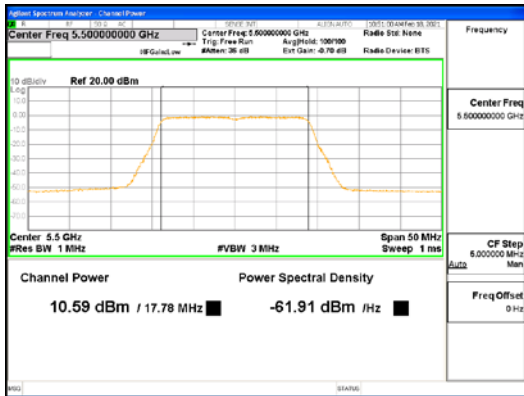


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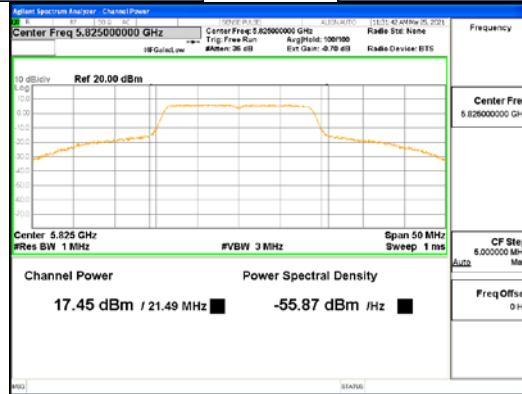
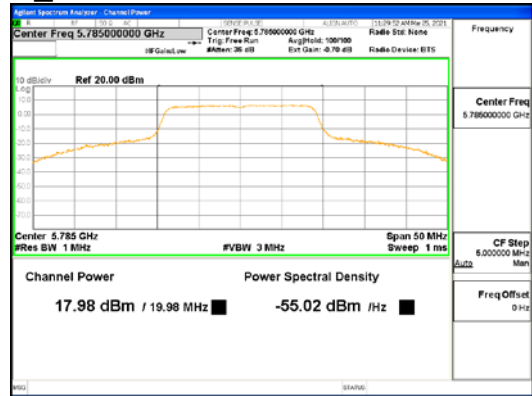
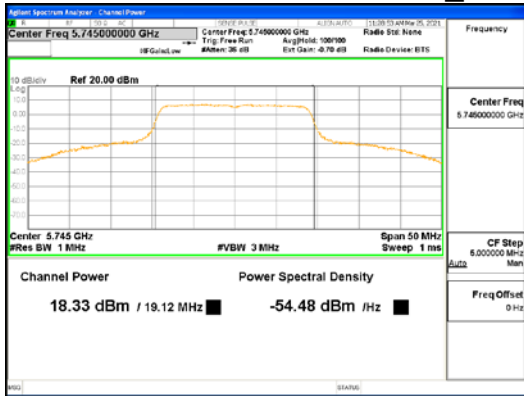


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