

Freq Offset 0 Hz

Scale Type

Span 30.00 MHz Sweep 3.730 ms (1000 pts)



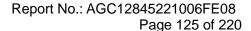


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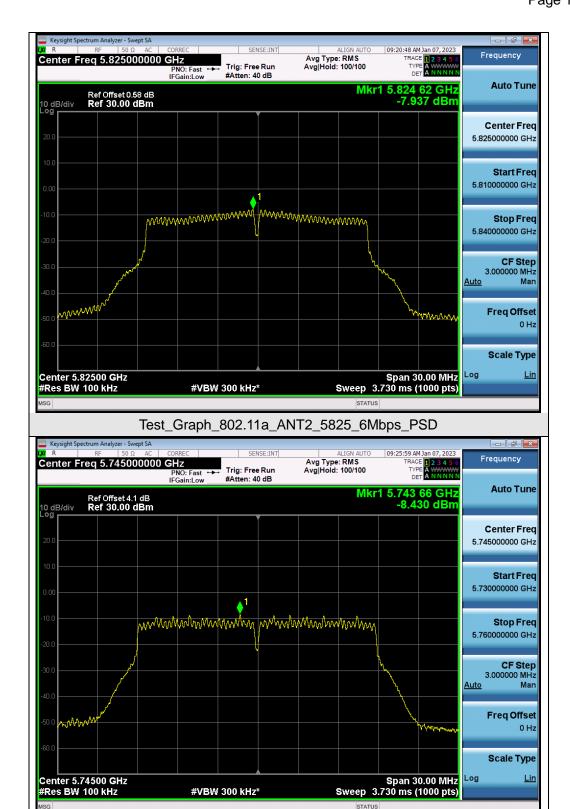
Test Graph 802.11a ANT2 5785 6Mbps PSD

#VBW 300 kHz*

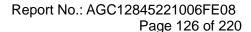
Center 5.78500 GHz #Res BW 100 kHz



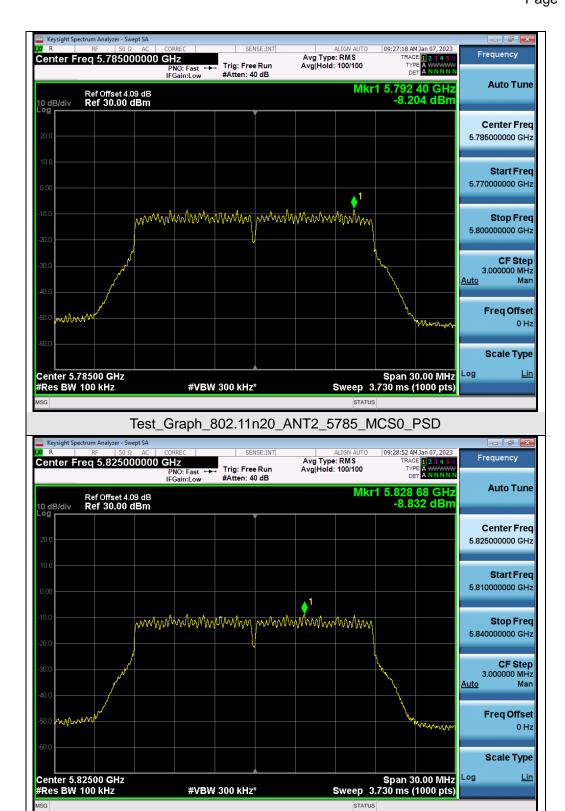




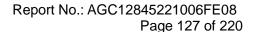
Test Graph 802.11n20 ANT2 5745 MCS0 PSD



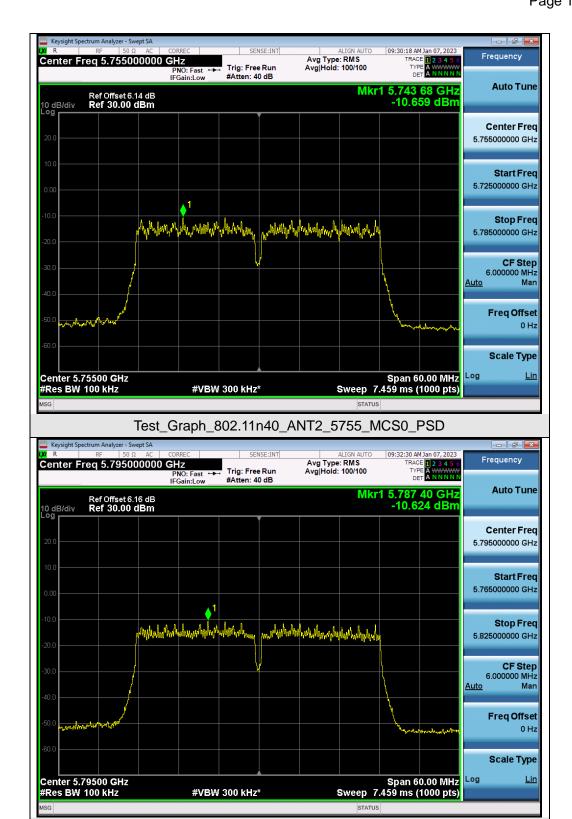




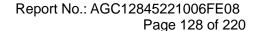
Test Graph 802.11n20 ANT2 5825 MCS0 PSD







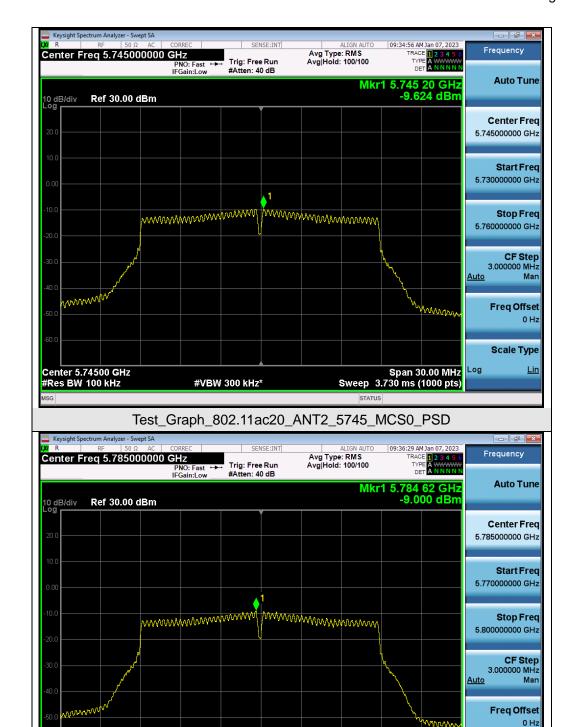
Test Graph 802.11n40 ANT2 5795 MCS0 PSD



Scale Type

Span 30.00 MHz Sweep 3.730 ms (1000 pts)



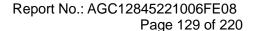


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Test Graph 802.11ac20 ANT2 5785 MCS0 PSD

#VBW 300 kHz*

Center 5.78500 GHz #Res BW 100 kHz

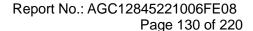




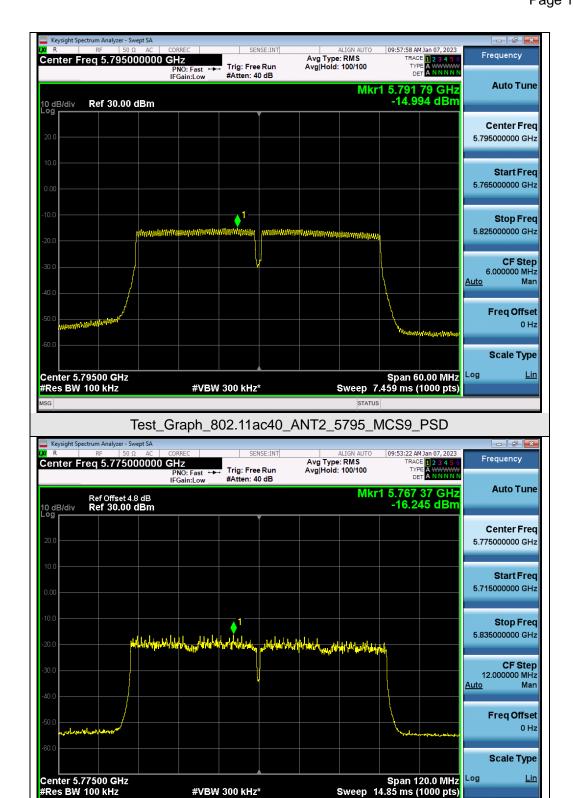


Test Graph 802.11ac40 ANT2 5755 MCS9 PSD

#VBW 300 kHz*

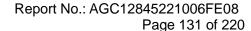






Test Graph 802.11ac80 ANT2 5775 MCS9 PSD

#VBW 300 kHz*



Scale Type

Log

Span 30.00 MHz Sweep 3.730 ms (1000 pts)



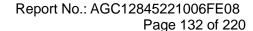


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Test Graph 802.11ax20 ANT2 5785 MCS0 PSD

#VBW 300 kHz*

Center 5.78500 GHz #Res BW 100 kHz



0 Hz

Scale Type

Span 60.00 MHz Sweep 7.459 ms (1000 pts)



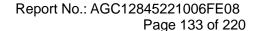


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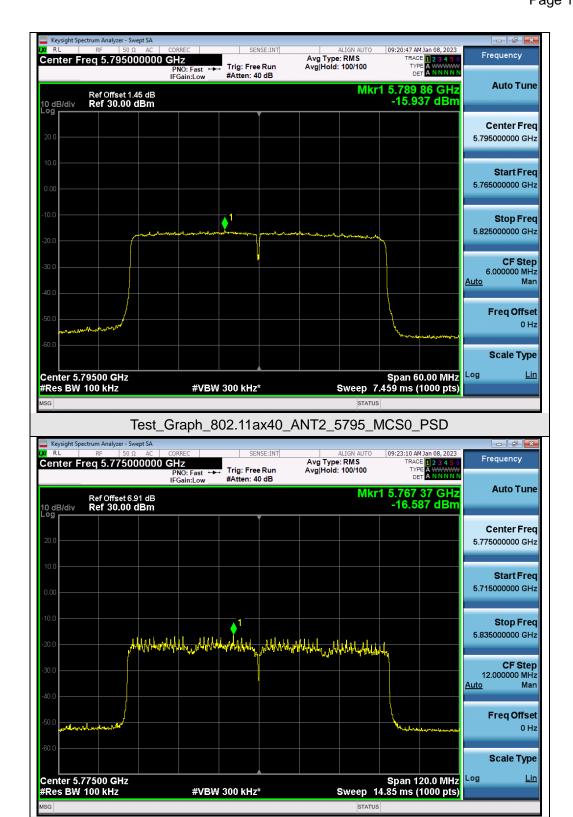
Test Graph 802.11ax40 ANT2 5755 MCS0 PSD

#VBW 300 kHz*

Center 5.75500 GHz #Res BW 100 kHz







Test Graph 802.11ax80 ANT2 5775 MCS0 PSD



Report No.: AGC12845221006FE08

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9. CONDUCTED SPURIOUS EMISSION

9.1 MEASUREMENT LIMIT

| | Applicable to | Limit | |
|-----------------------------|---|-------------------------------|--|
| Restricted bands | 789033 D02 General UNII Test Procedures New Rules v02r01 | Field strength at 3m (dBuV/m) | |
| | | PK: 74 | AV: 54 |
| Out of the restricted bands | Applicable to | EIRP Limit (dBm/MHz) | Equivalent field Strength at 3m (dBuV/m) |
| | FCC 15.407(b)(1) | PK: -27 | PK: 68.2 |
| | 15.407(b)(2) | | |
| | 15.407(b)(3) | | |
| | 15.407(b)(4) | See Note 2 | |

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

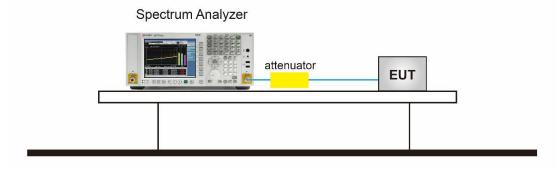
E =
$$\frac{1000000 - \sqrt{30 P}}{2}$$
 µV/m, where P is the eirp (Watts).

Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

9.2 MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
- 4. RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.(Test frequency below 1GHz)
- 5. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = peak.(Test frequency Above 1GHz)
- 6. Set SPA Trace 1 Max hold, then View.
- 7. Mark the maximum useless stray point and compare it with the limit value to record the result.

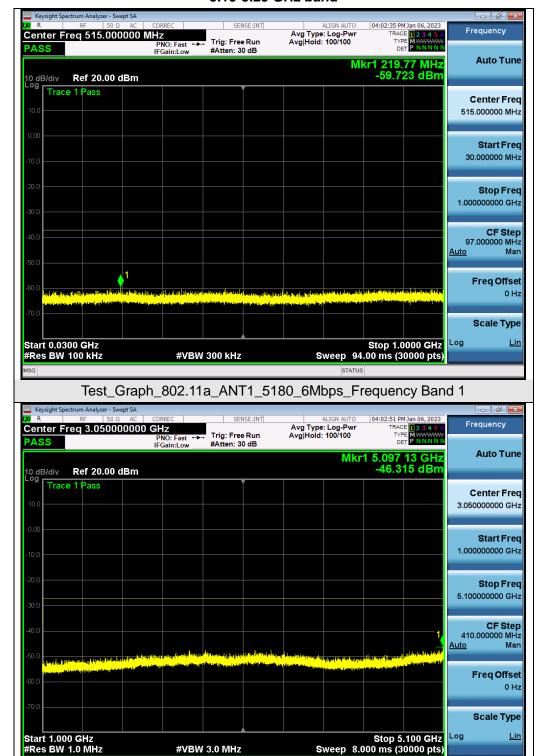
9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





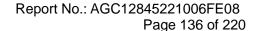
9.4 MEASUREMENT RESULTS

Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band

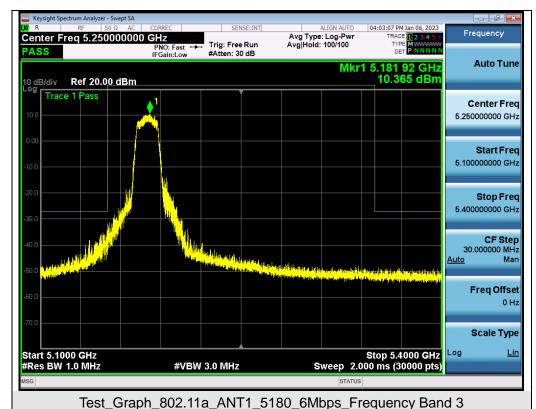


Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 2

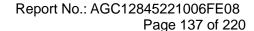
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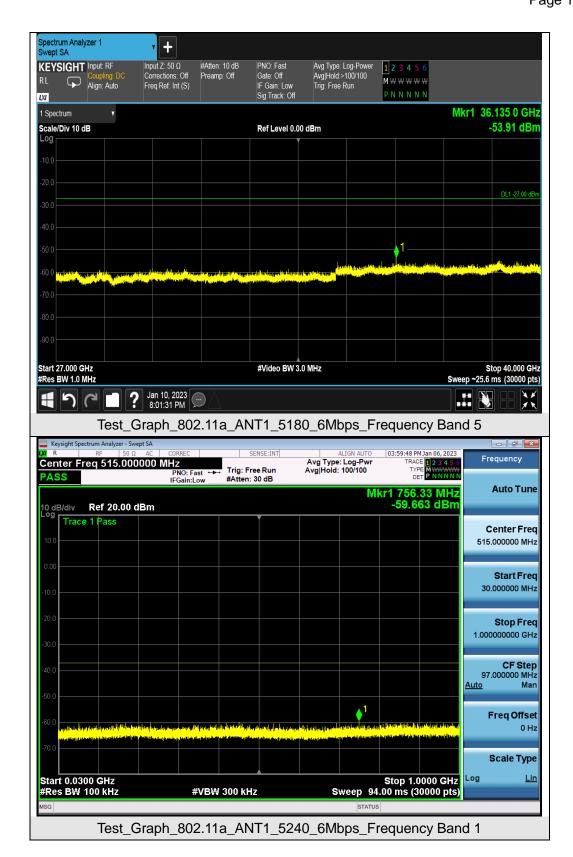


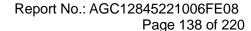






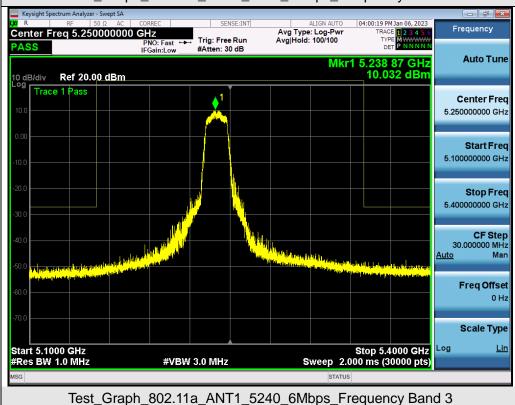


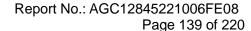




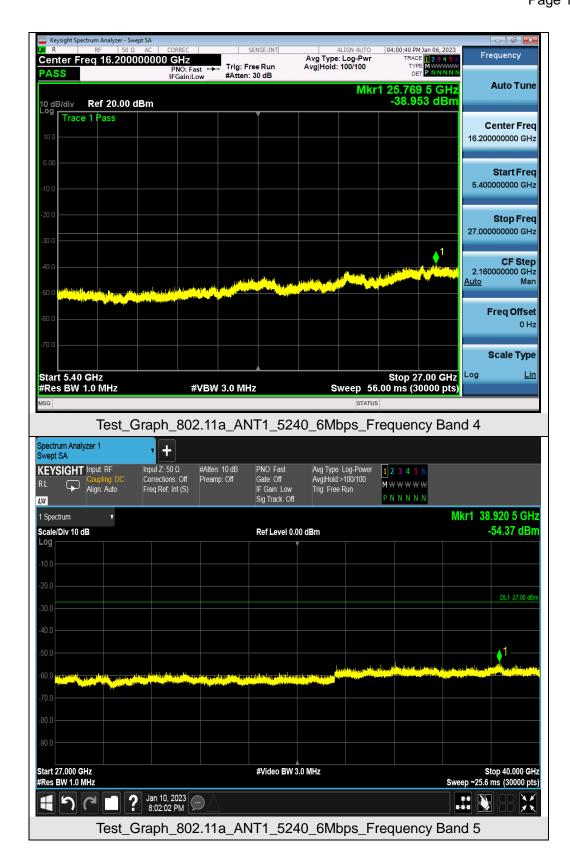


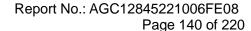




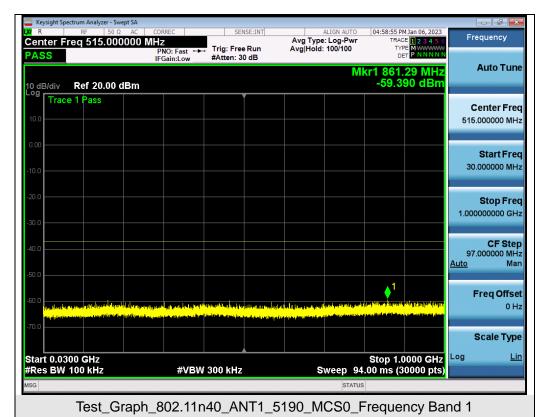


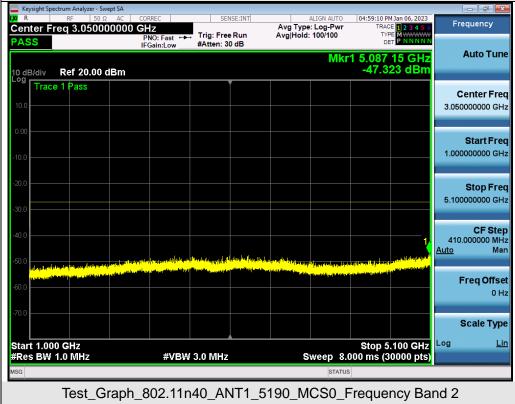


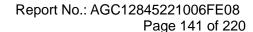




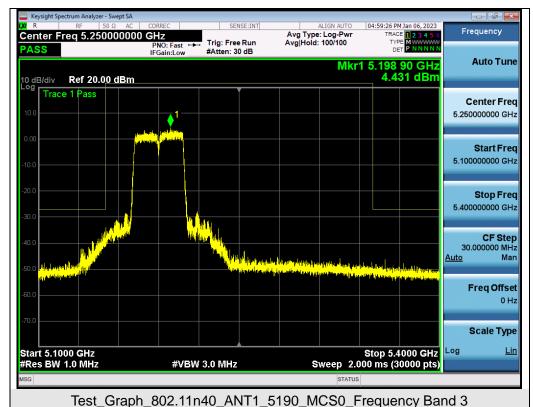




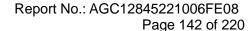




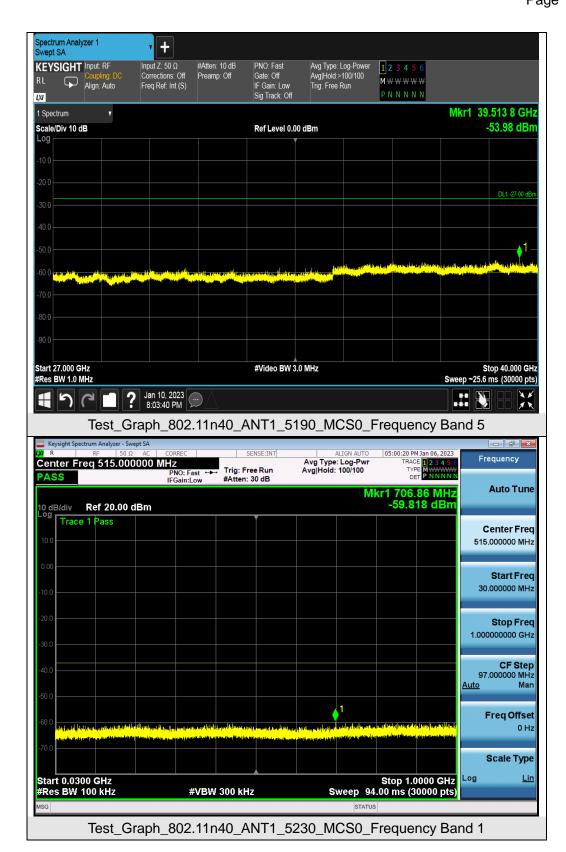


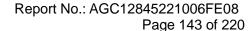




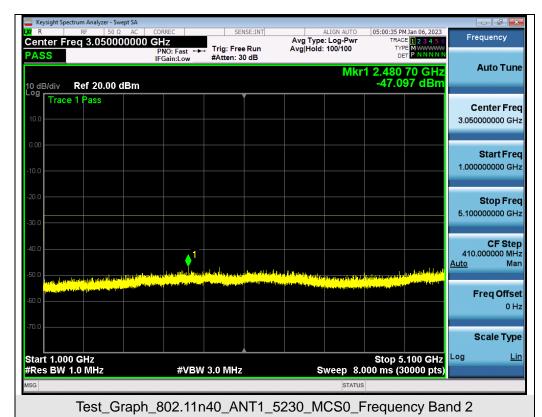


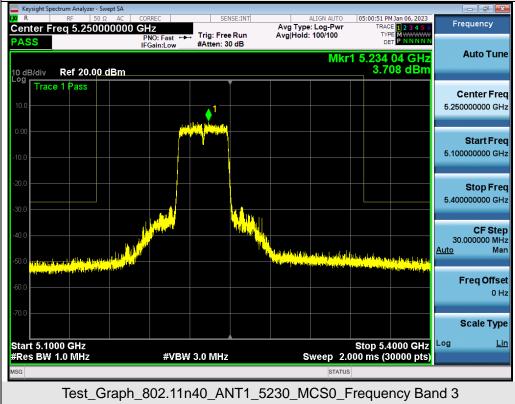




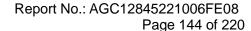




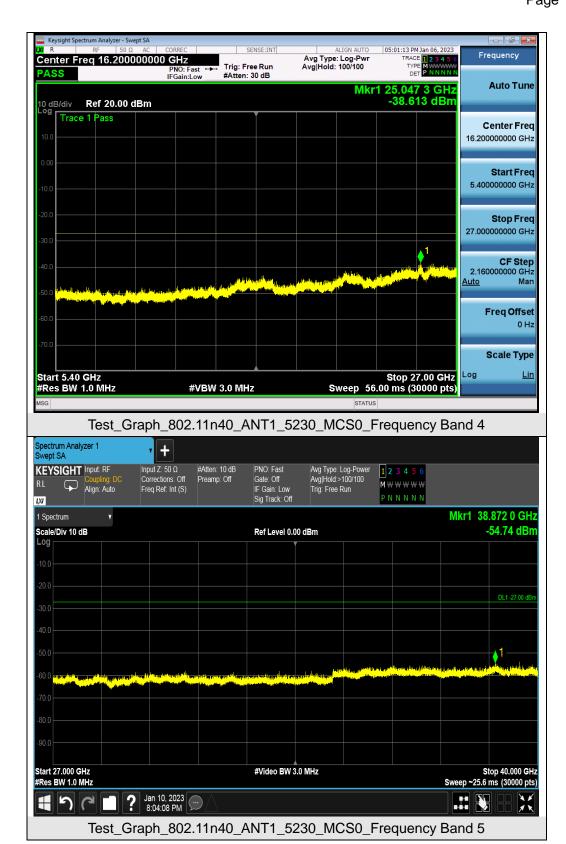


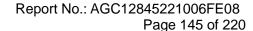


Web: http://www.agccert.com/

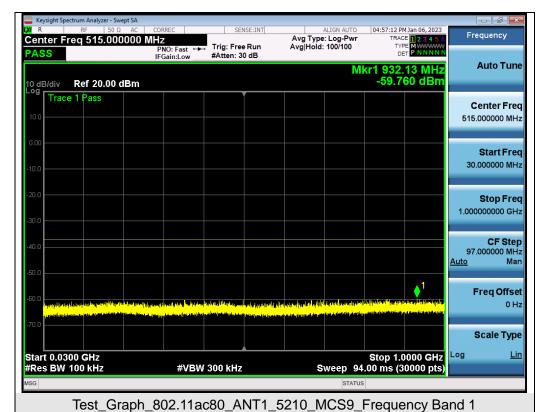




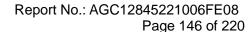




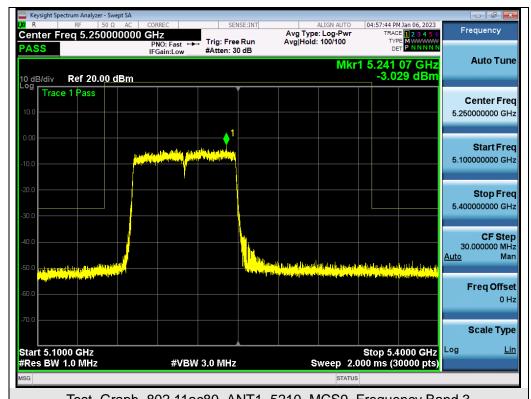


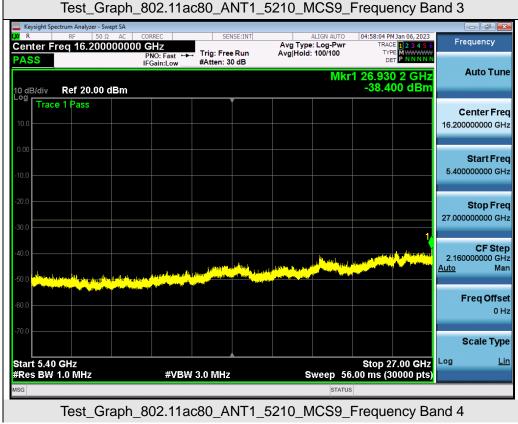


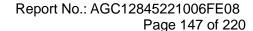




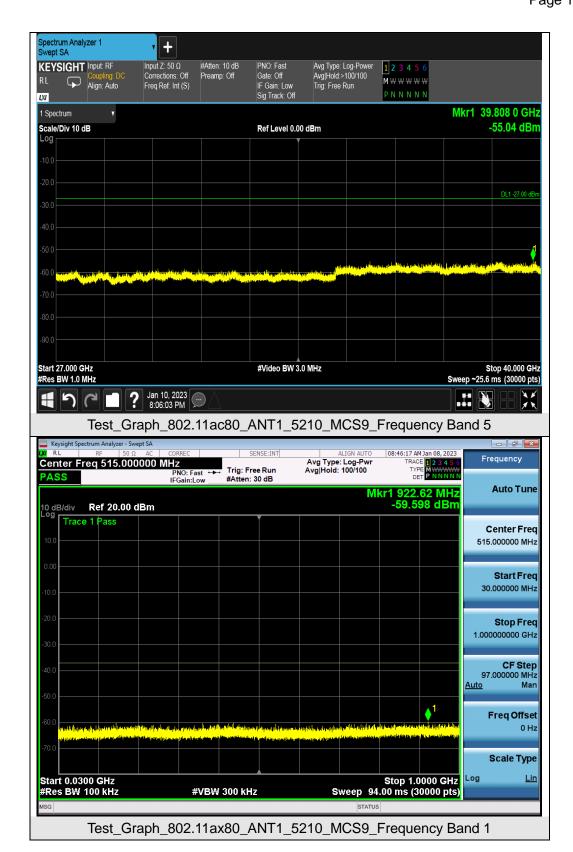


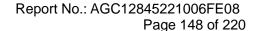






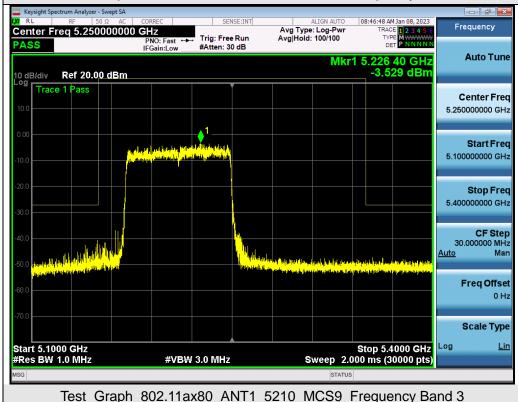


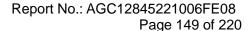




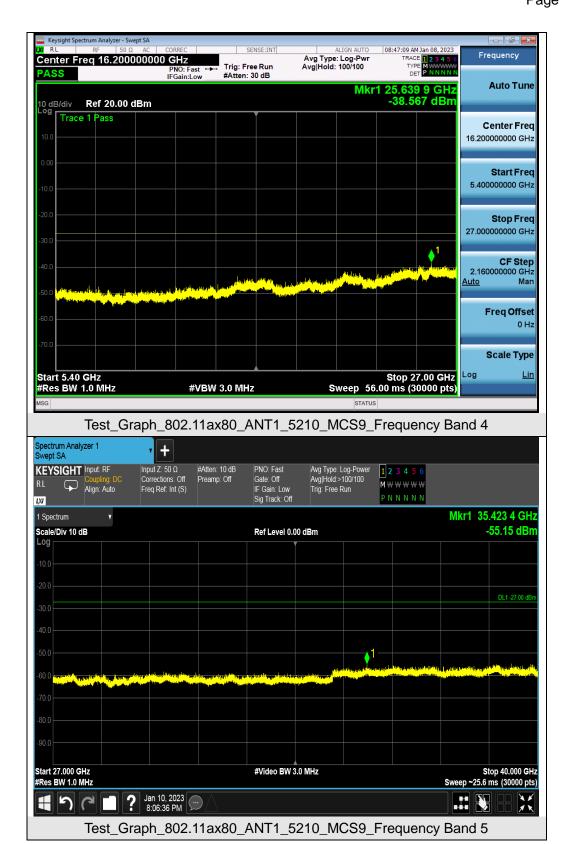


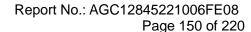




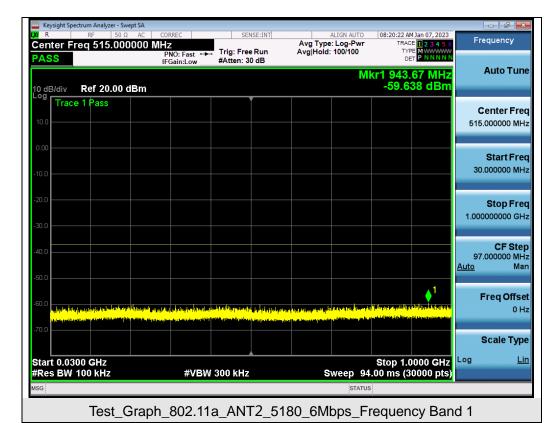


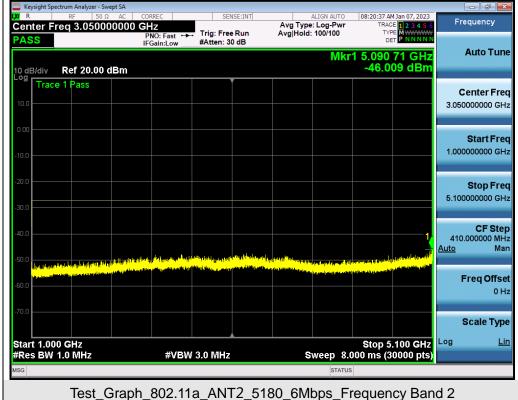


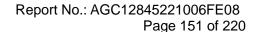




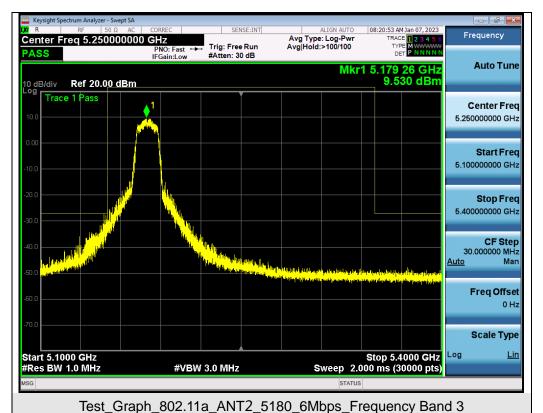




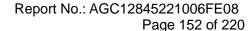




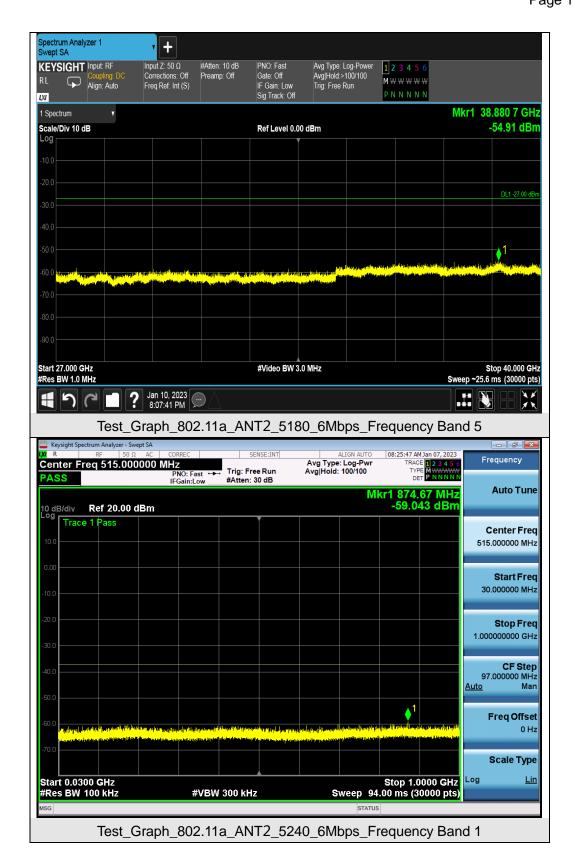


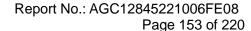




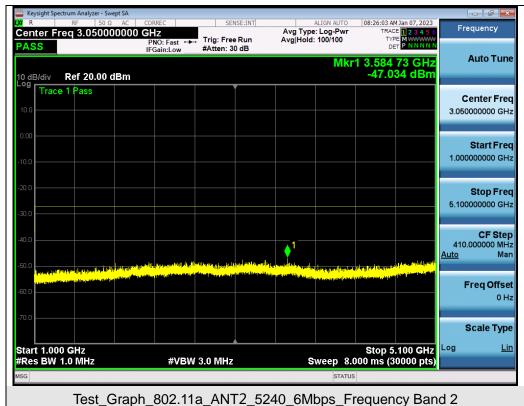


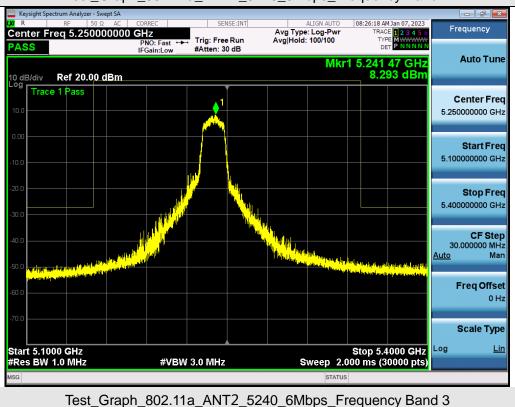


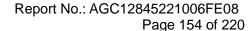




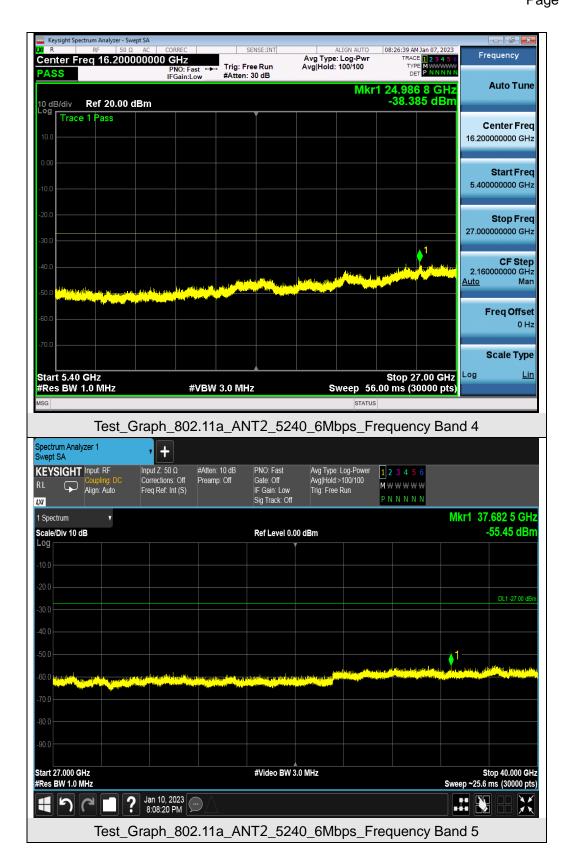


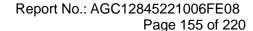








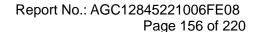




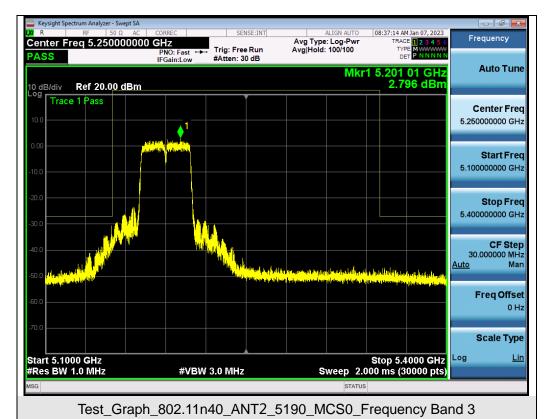




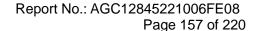




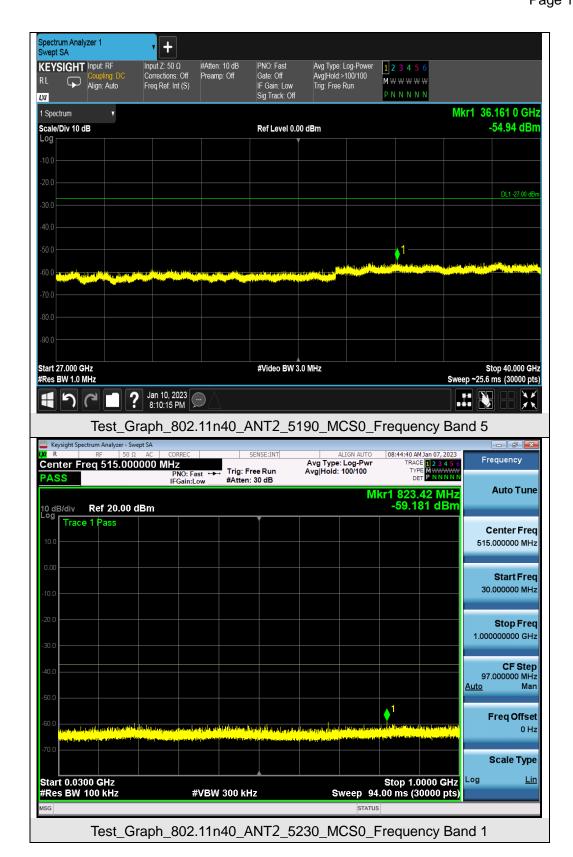


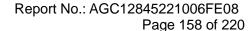












CF Step 30.000000 MHz

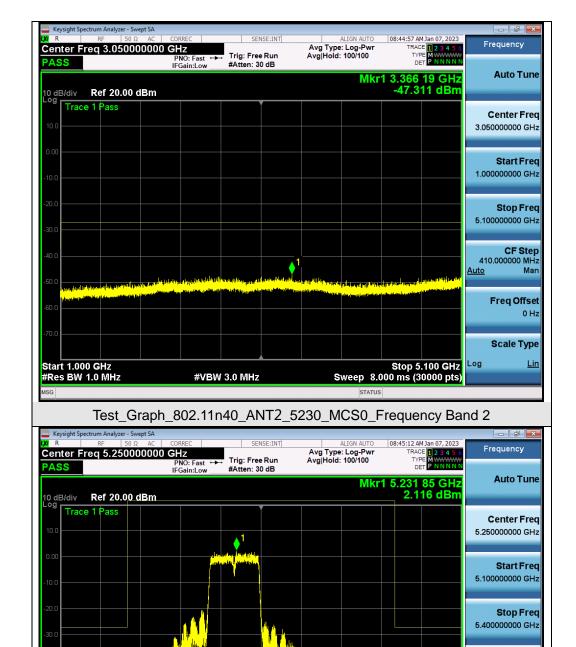
> Freq Offset 0 Hz

Scale Type

<u>Auto</u>

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)





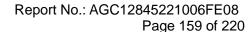
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Test_Graph_802.11n40_ANT2_5230_MCS0_Frequency Band 3

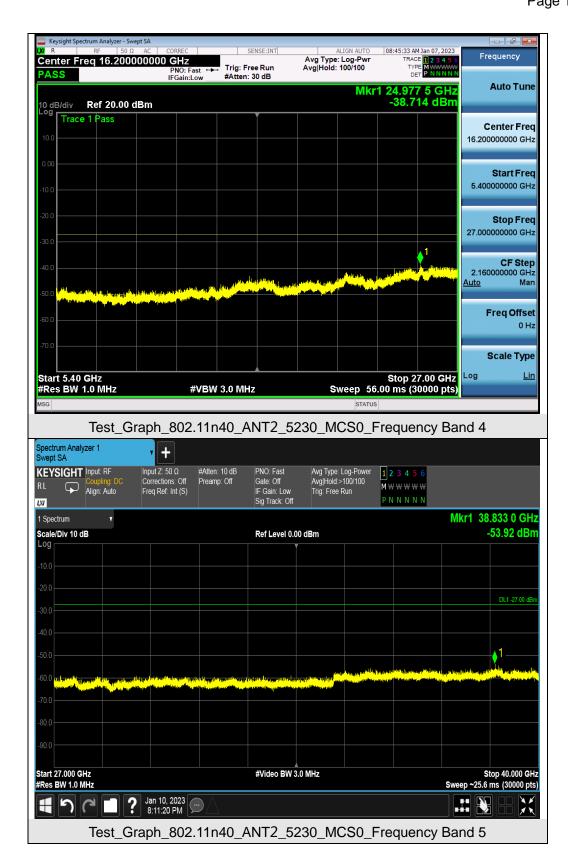
#VBW 3.0 MHz

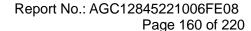
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Start 5.1000 GHz #Res BW 1.0 MHz

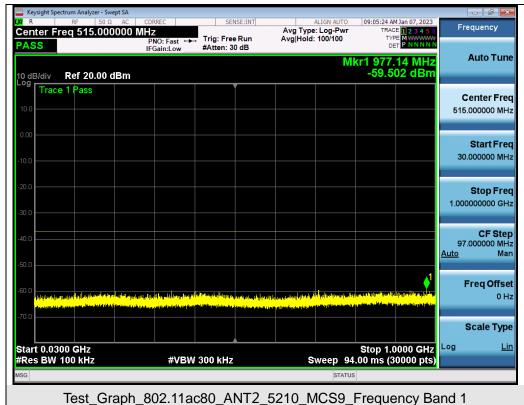




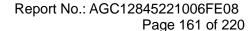








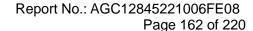




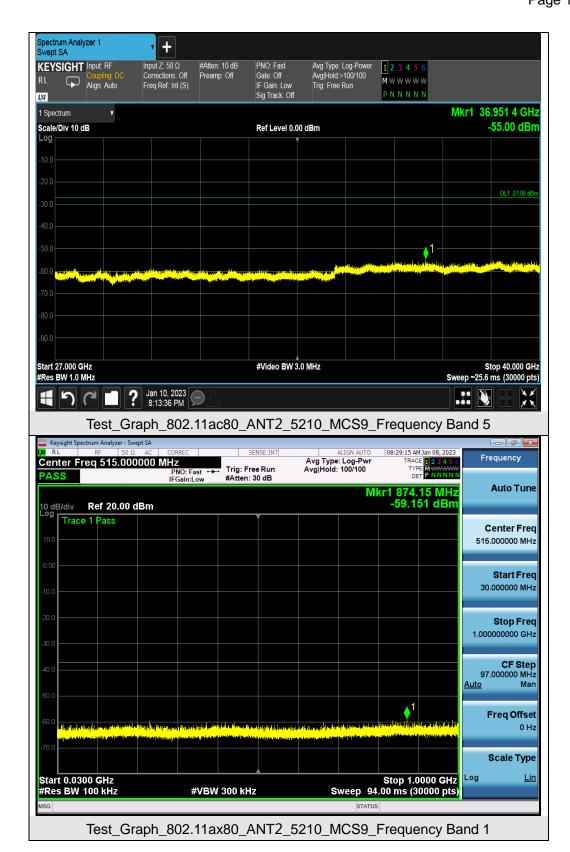


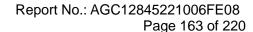










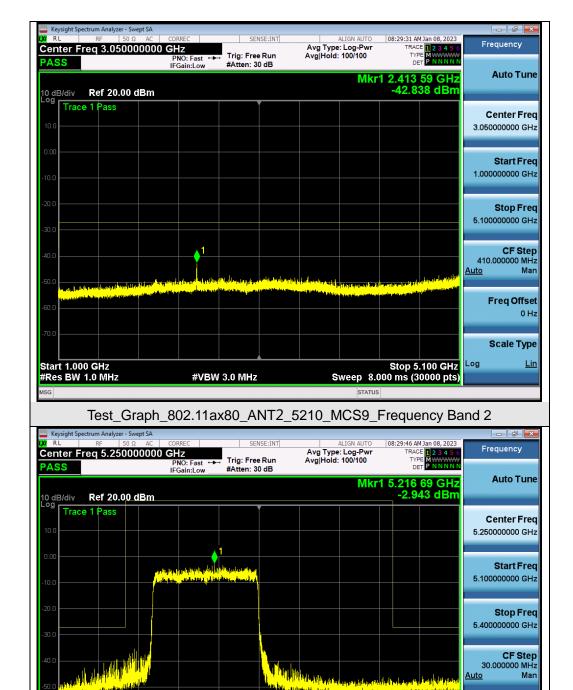


Freq Offset 0 Hz

Scale Type

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



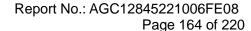


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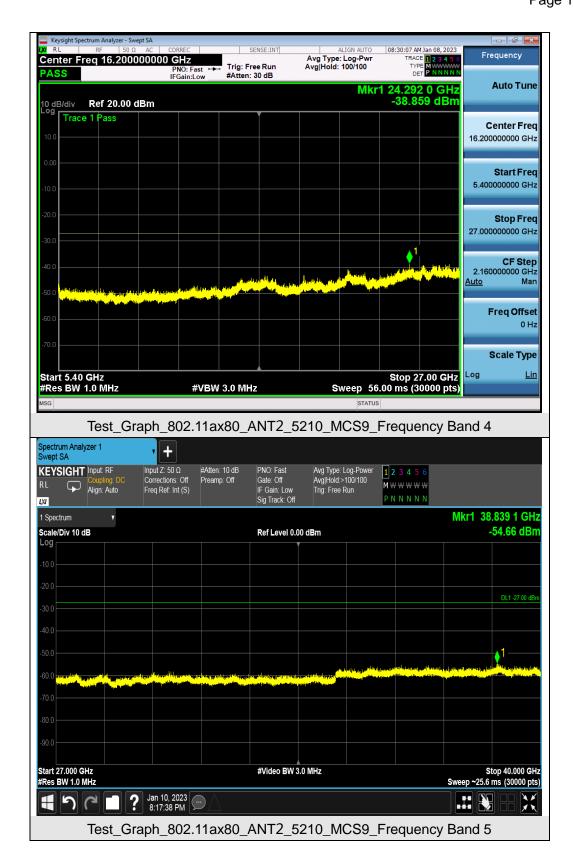
Test_Graph_802.11ax80_ANT2_5210_MCS9_Frequency Band 3

#VBW 3.0 MHz

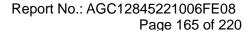
Start 5.1000 GHz #Res BW 1.0 MHz





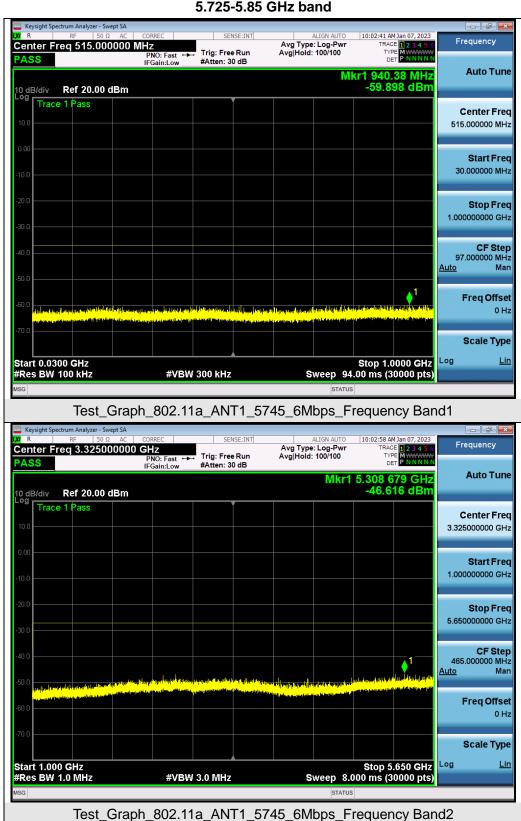


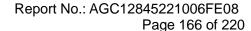
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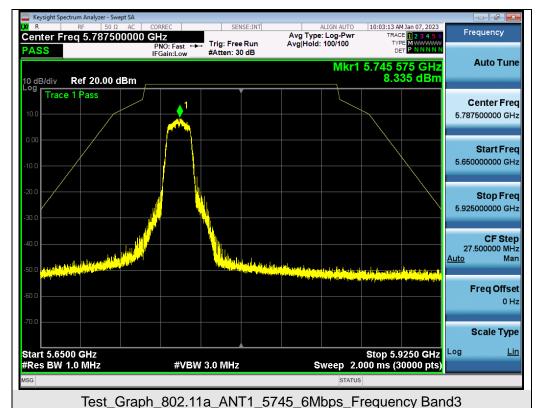


Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band

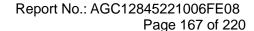




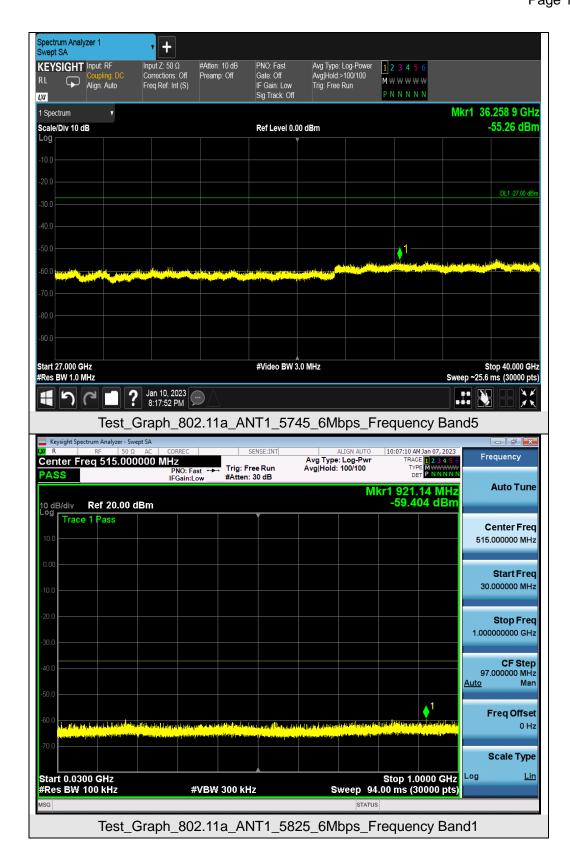


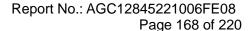






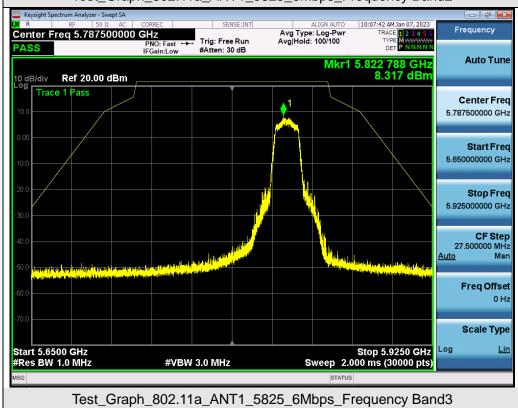


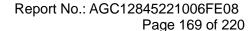




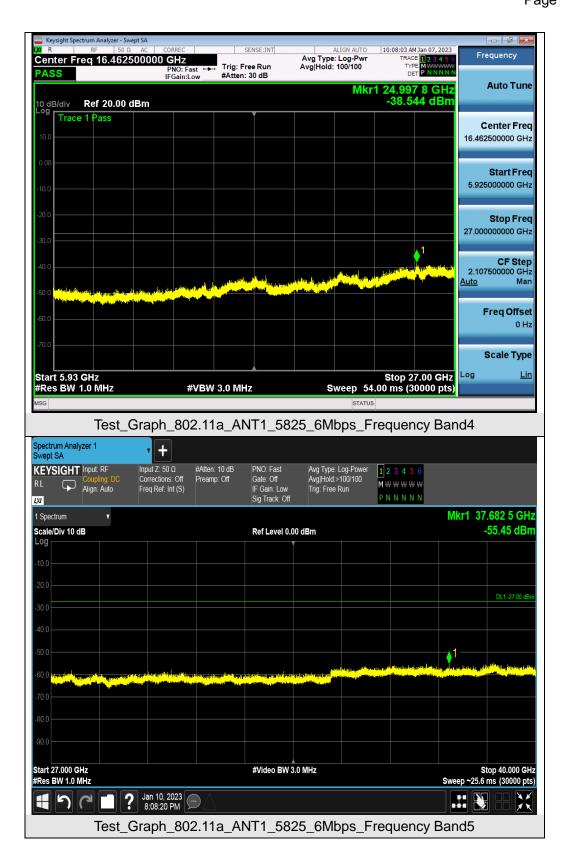












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