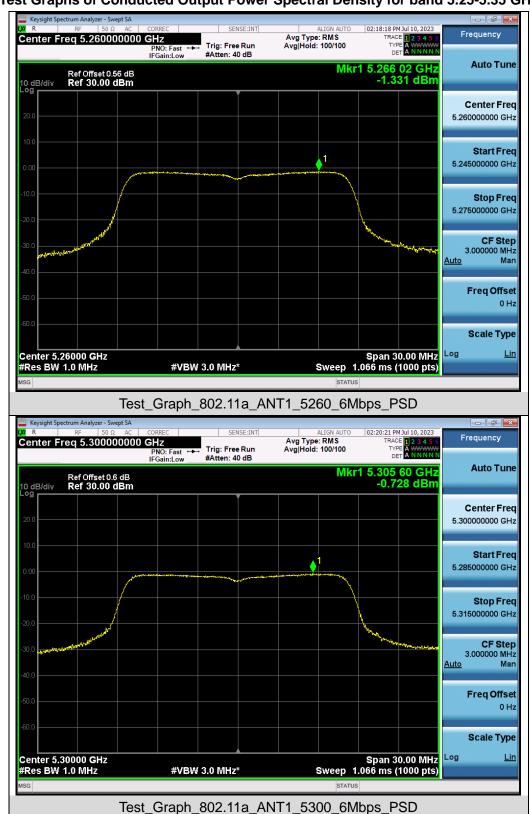
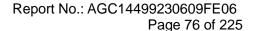




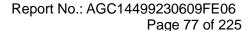
Test Graphs of Conducted Output Power Spectral Density for band 5.25-5.35 GHz



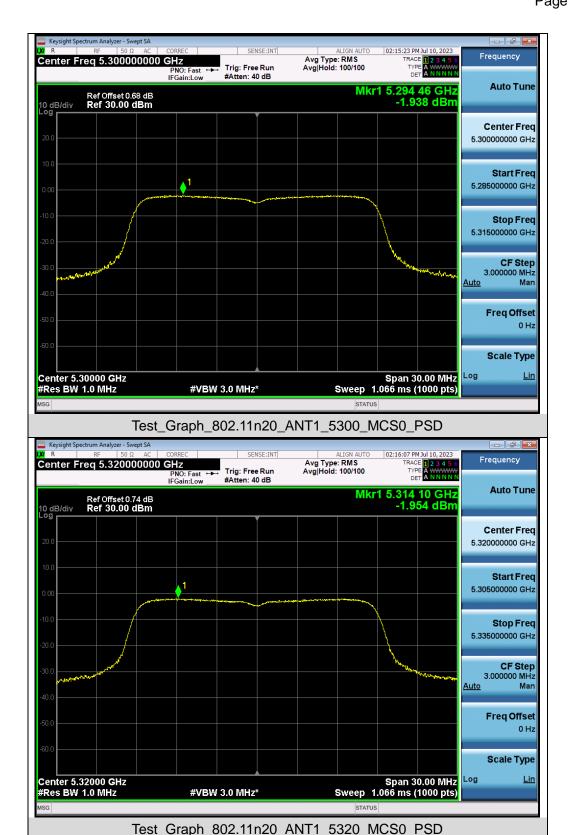


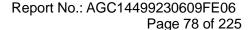








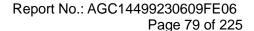






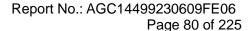


Test Graph 802.11n40 ANT1 5310 MCS0 PSD



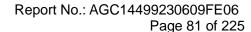






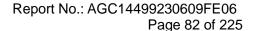












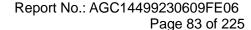


Test Graphs of Conducted Output Power Spectral Density for band 5.470-5.725 GHz

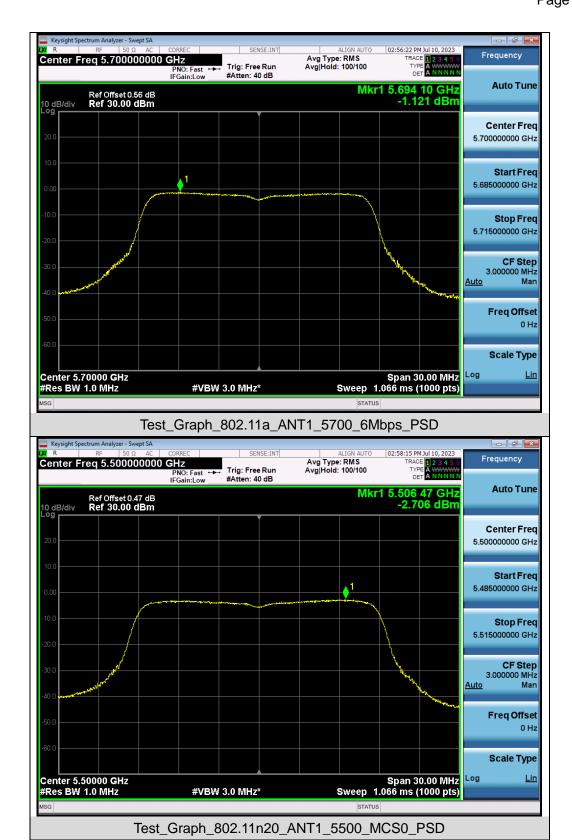


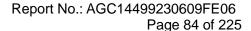
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Test_Graph_802.11a_ANT1_5600_6Mbps_PSD

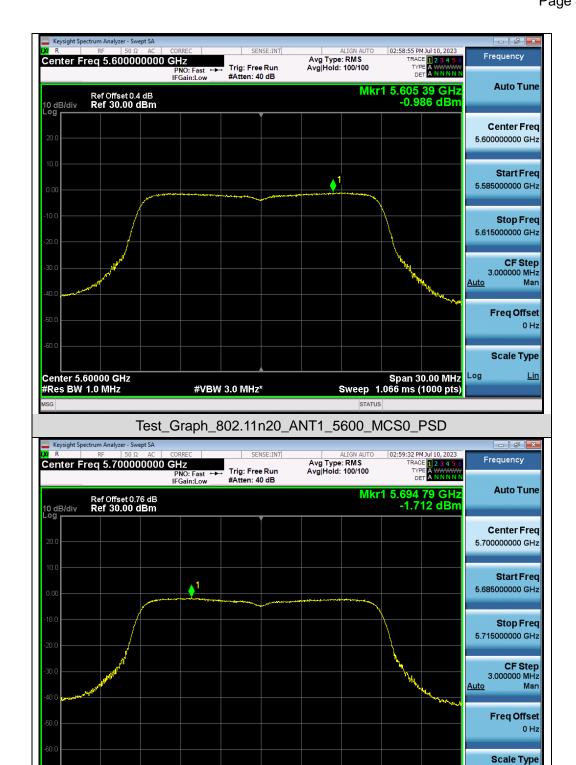










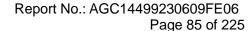


Test Graph 802.11n20 ANT1 5700 MCS0 PSD

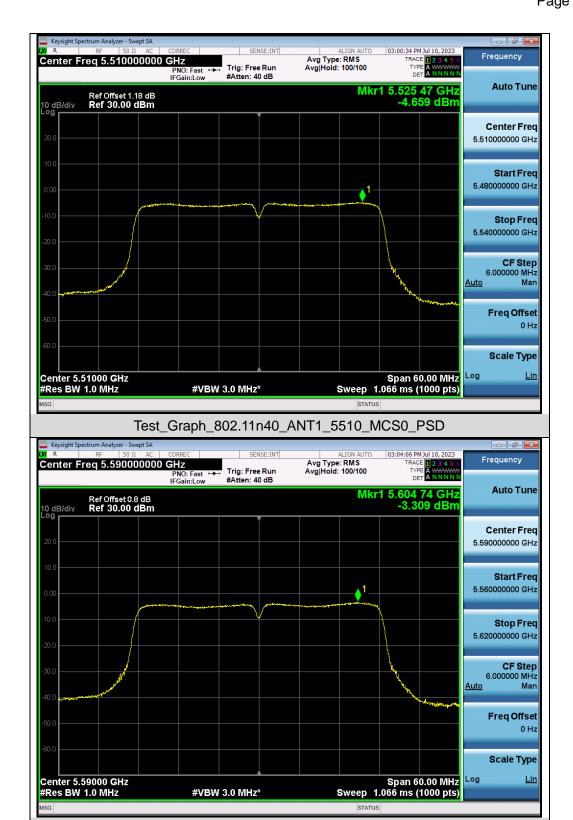
#VBW 3.0 MHz*

Span 30.00 MHz Sweep 1.066 ms (1000 pts)

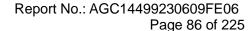
Center 5.70000 GHz #Res BW 1.0 MHz





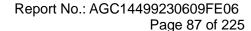


Test Graph 802.11n40 ANT1 5590 MCS0 PSD

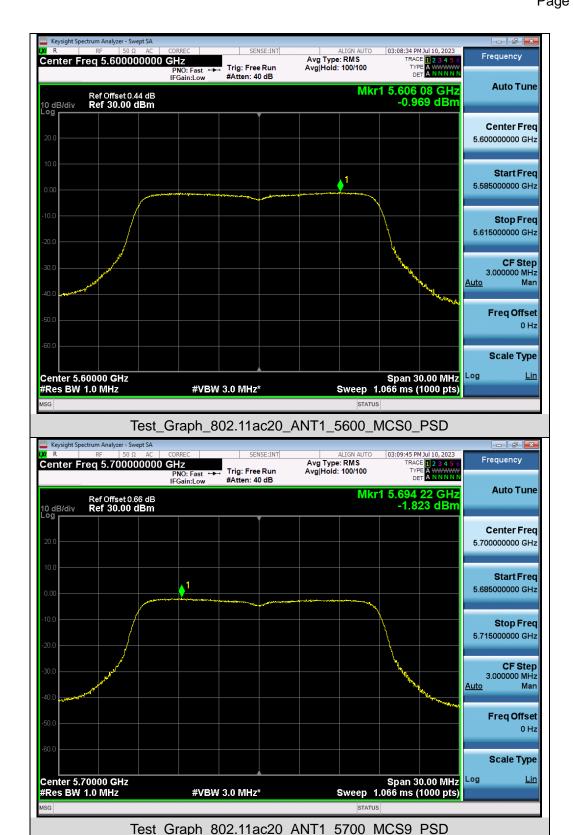


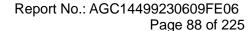




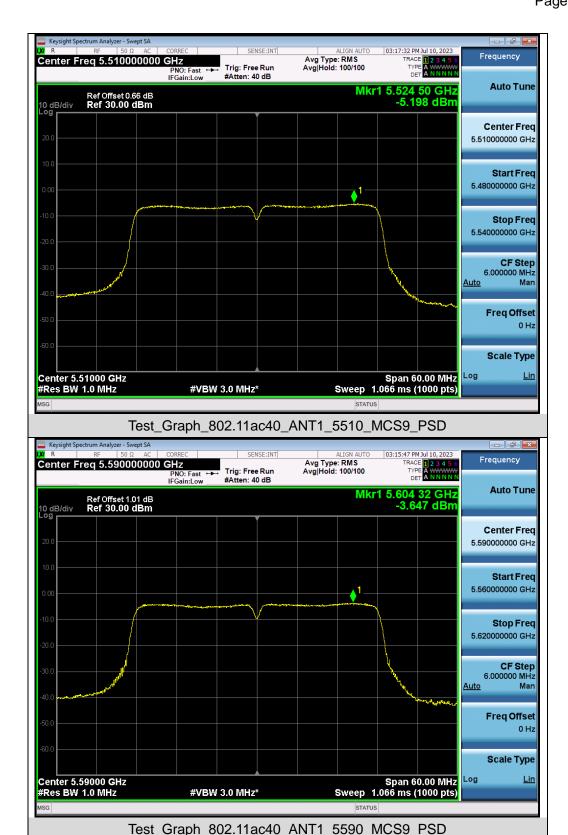


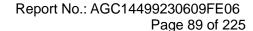




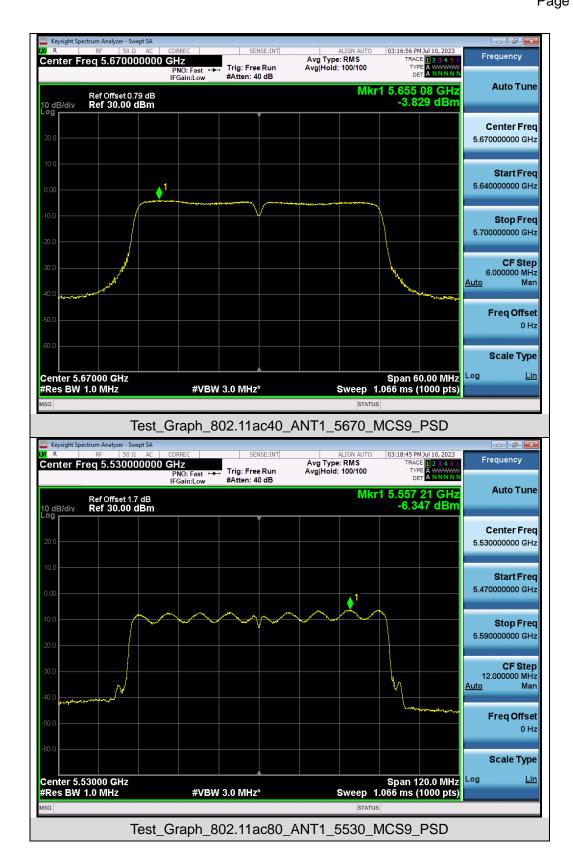


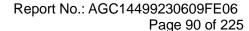




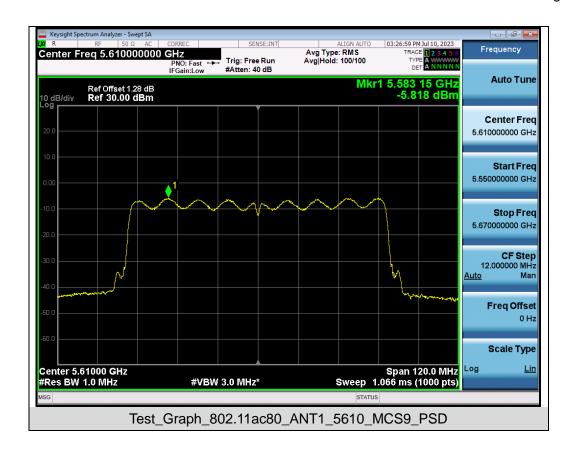


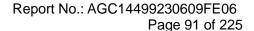






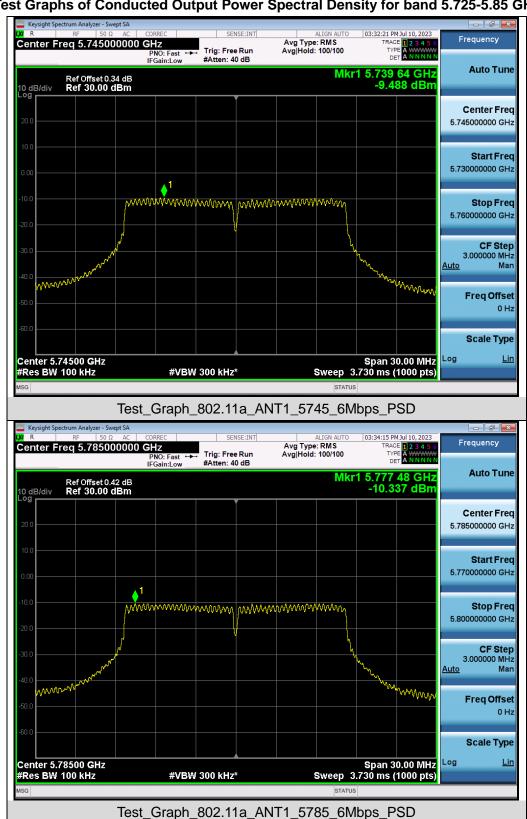


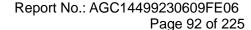




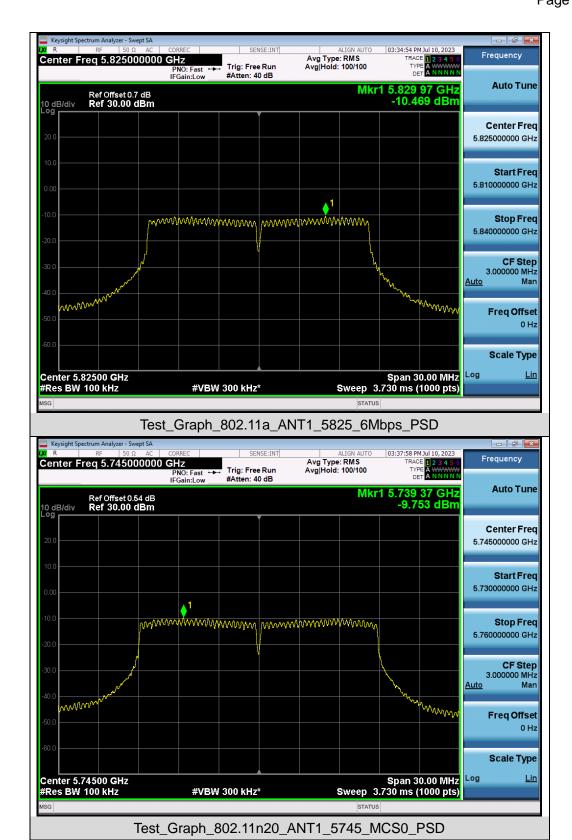


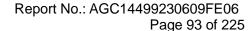
Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz











Scale Type

Span 30.00 MHz Sweep 3.730 ms (1000 pts)



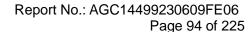


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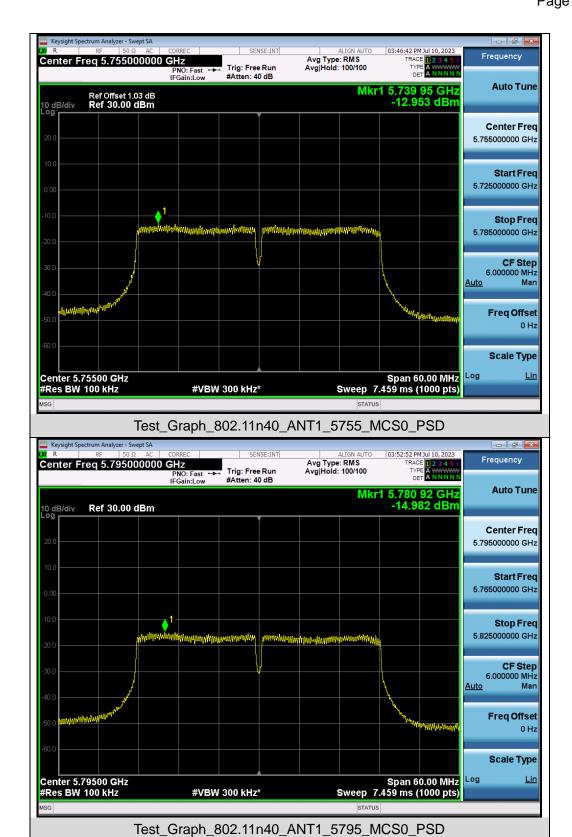
Test Graph 802.11n20 ANT1 5825 MCS0 PSD

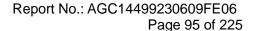
#VBW 300 kHz*

Center 5.82500 GHz #Res BW 100 kHz

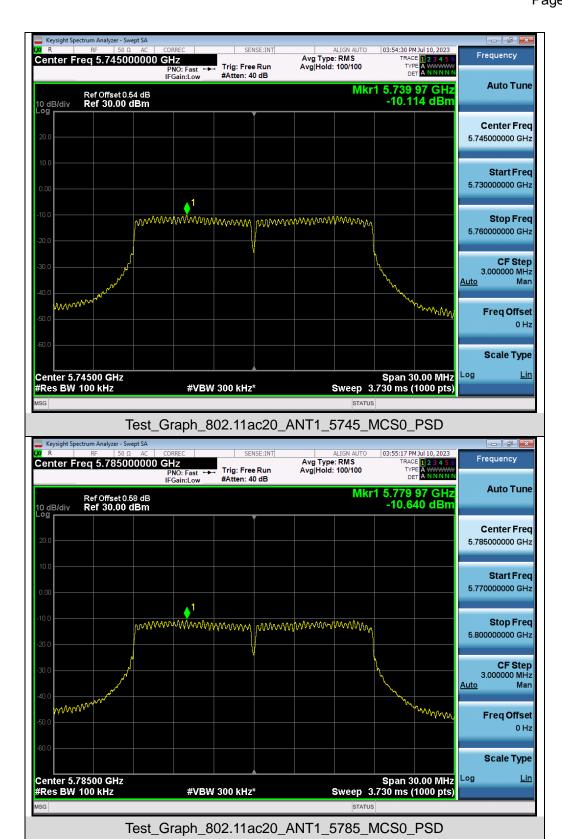


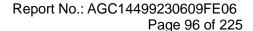




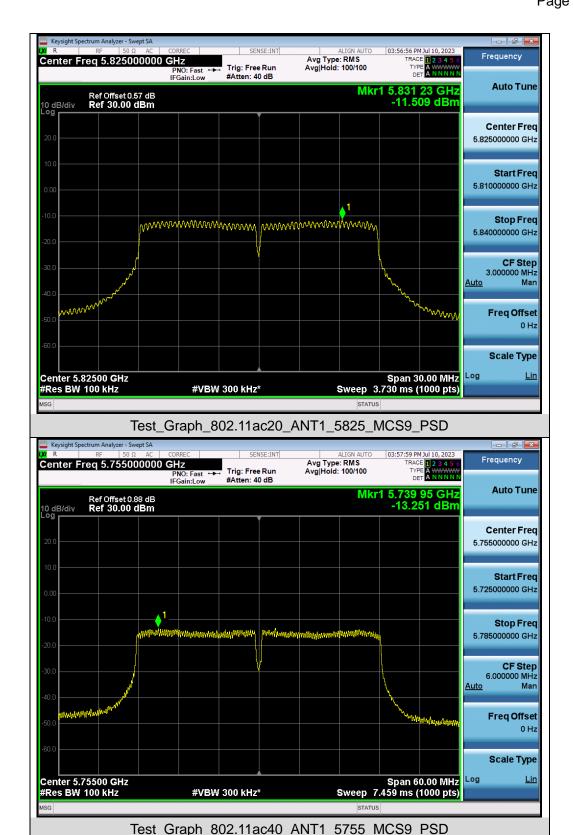


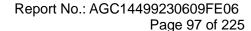




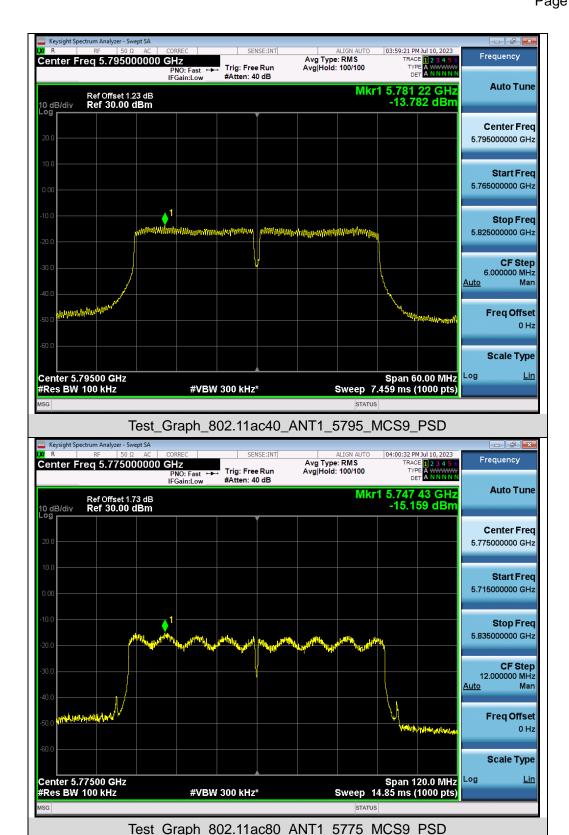














9. CONDUCTED SPURIOUS EMISSION

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:

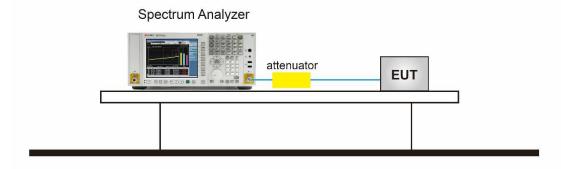
E =
$$\frac{1000000 - \sqrt{30 P}}{2}$$
 µV/m, where P is the eirp (Watts).

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.

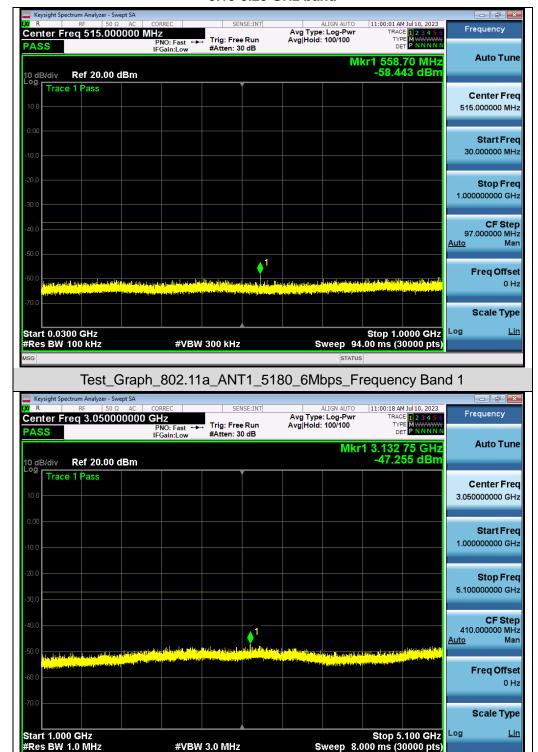
9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





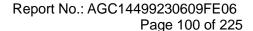
9.4 MEASUREMENT RESULTS

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

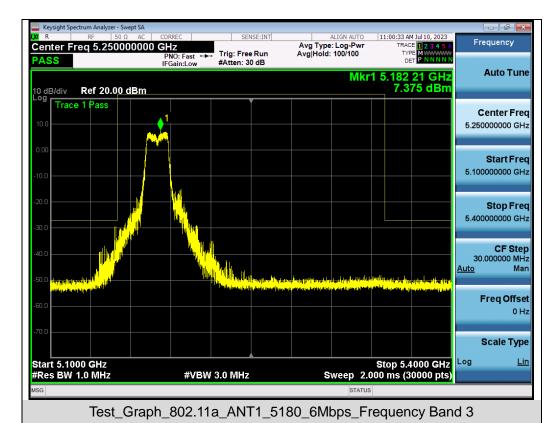


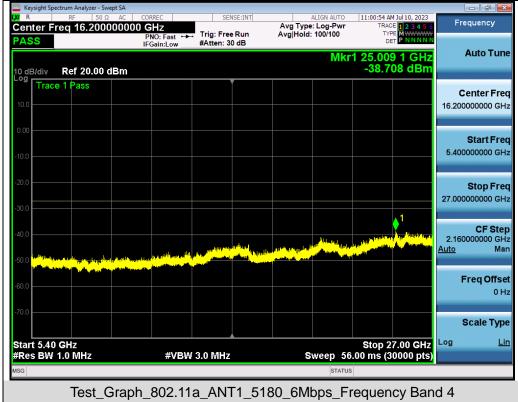
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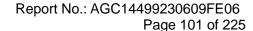
Test_Graph_802.11a_ANT1_5180_6Mbps_Frequency Band 2



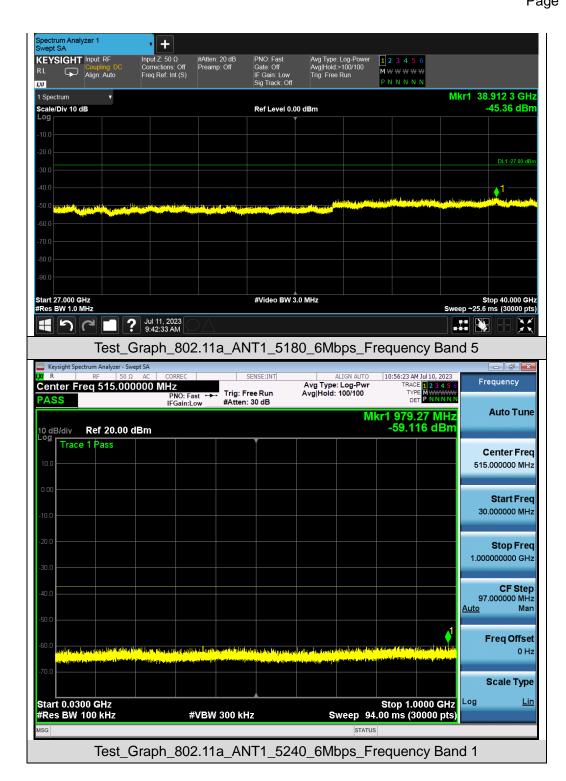


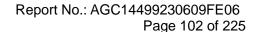












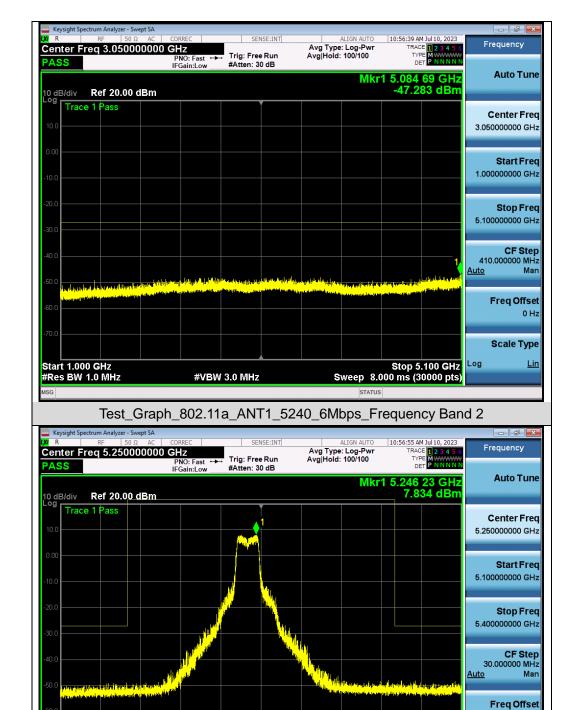
0 Hz

Scale Type

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



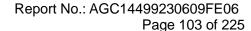


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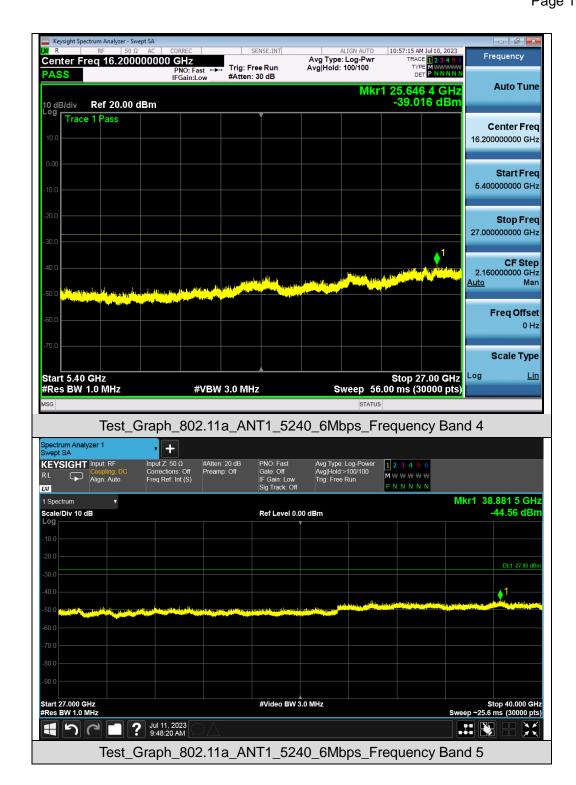
Test Graph 802.11a ANT1 5240 6Mbps Frequency Band 3

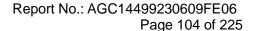
#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz





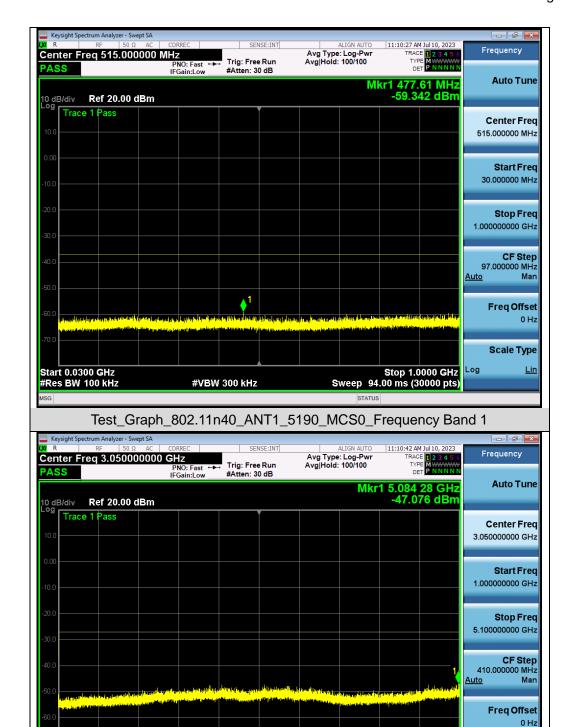




Scale Type

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)



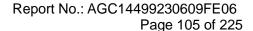


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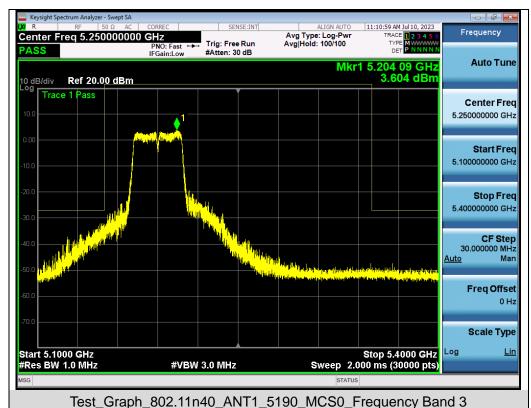
Test Graph 802.11n40 ANT1 5190 MCS0 Frequency Band 2

#VBW 3.0 MHz

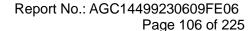
Start 1.000 GHz #Res BW 1.0 MHz



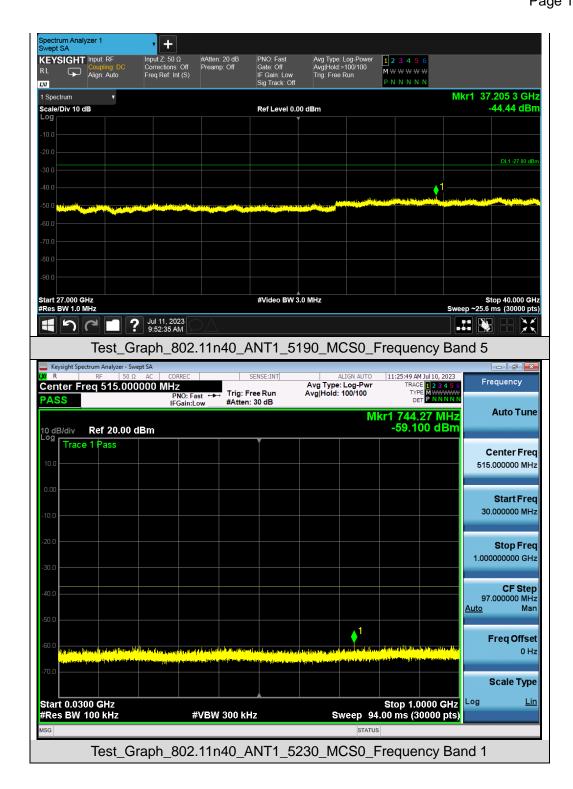


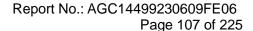




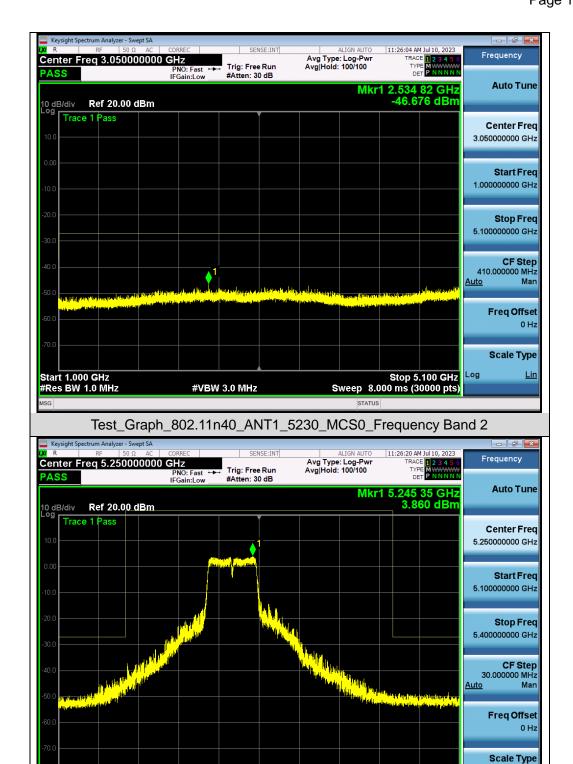










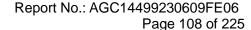


Test Graph 802.11n40 ANT1 5230 MCS0 Frequency Band 3

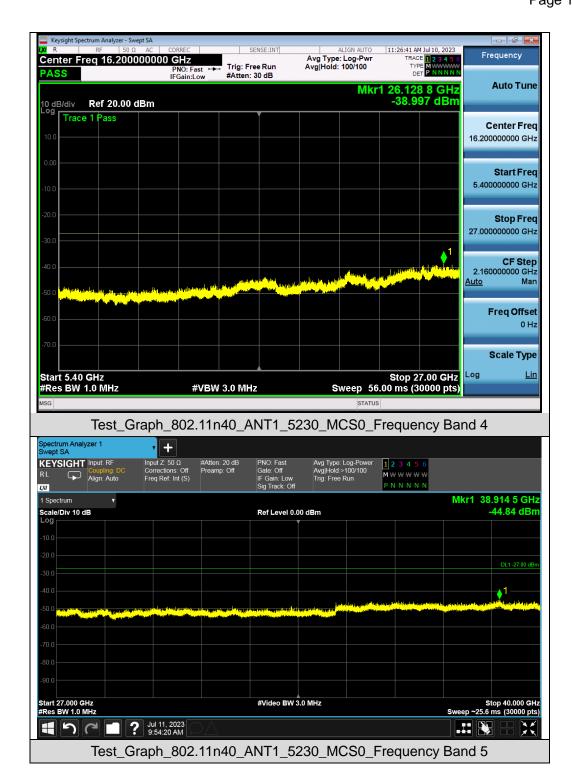
#VBW 3.0 MHz

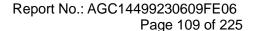
Stop 5.4000 GHz Sweep 2.000 ms (30000 pts) Log

Start 5.1000 GHz #Res BW 1.0 MHz

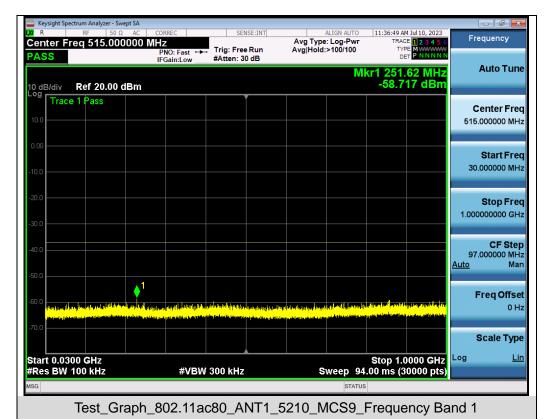




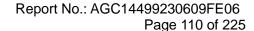








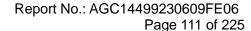




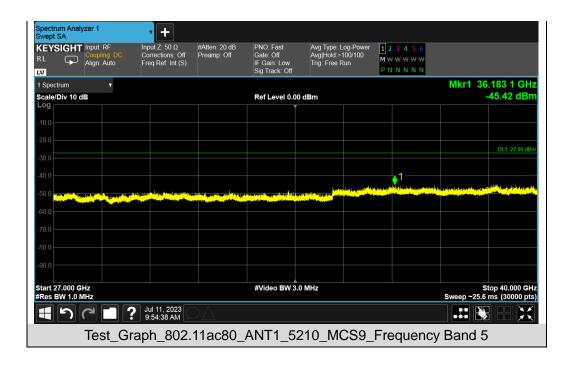


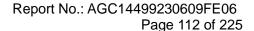






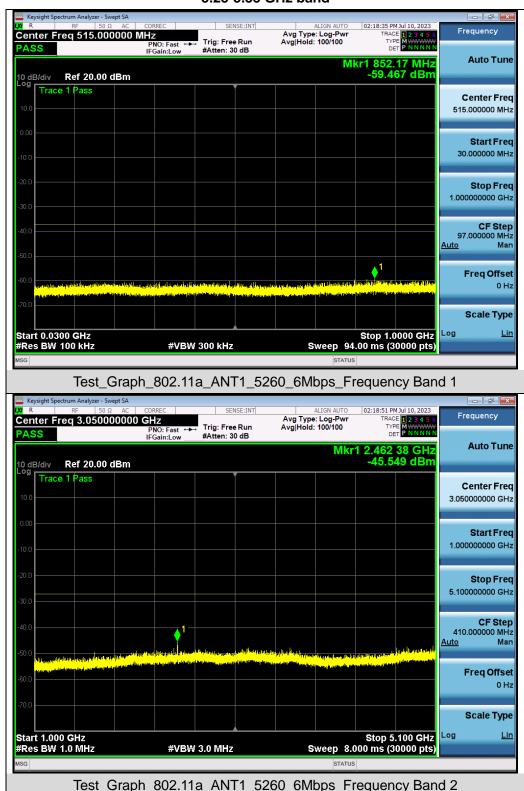


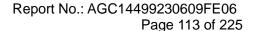




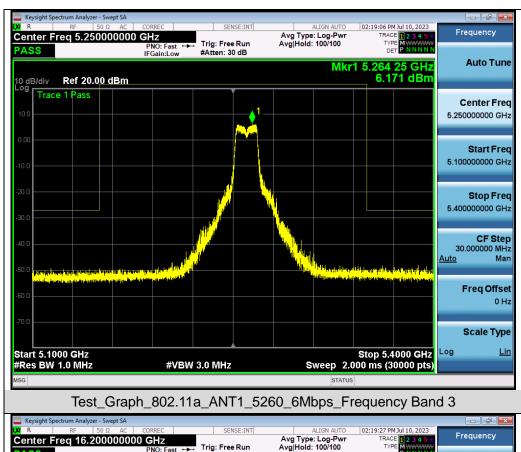


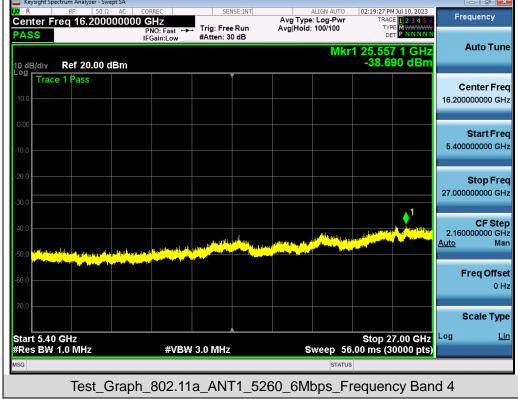
Test Graphs of Spurious Emissions outside of the 5.25-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band

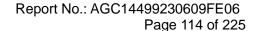




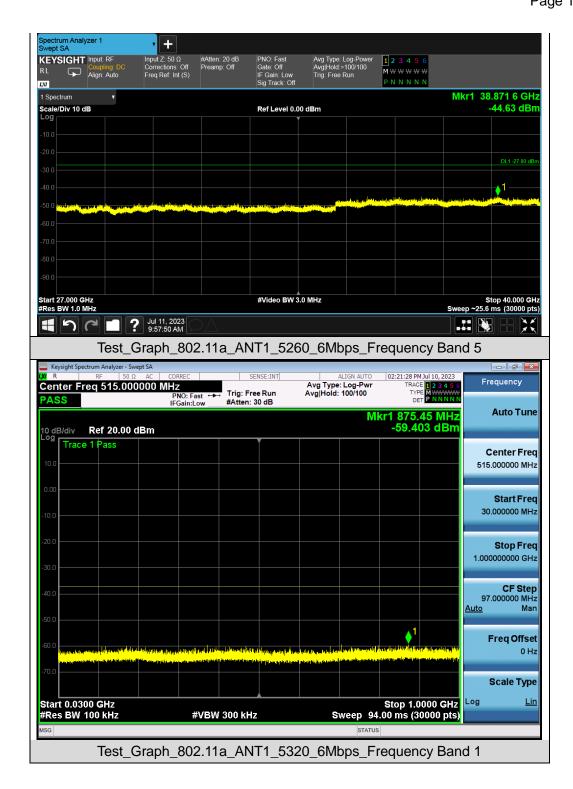


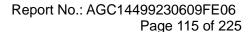












CF Step 30.000000 MHz

Freq Offset 0 Hz

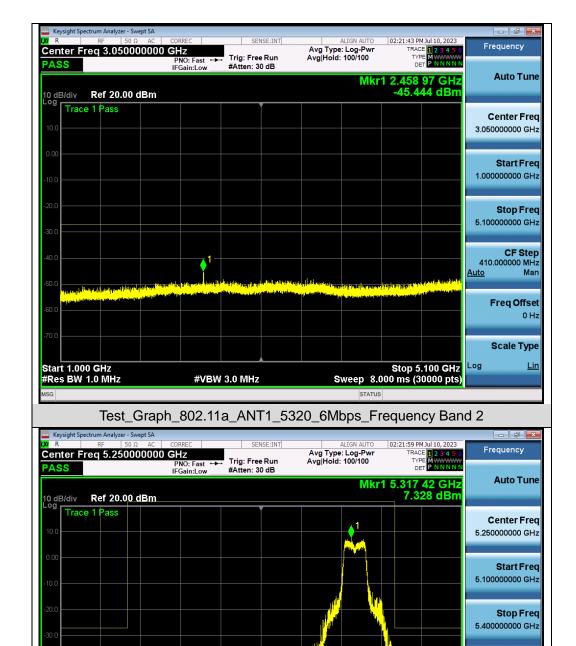
Scale Type

Man

<u>Auto</u>

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



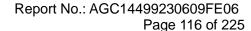


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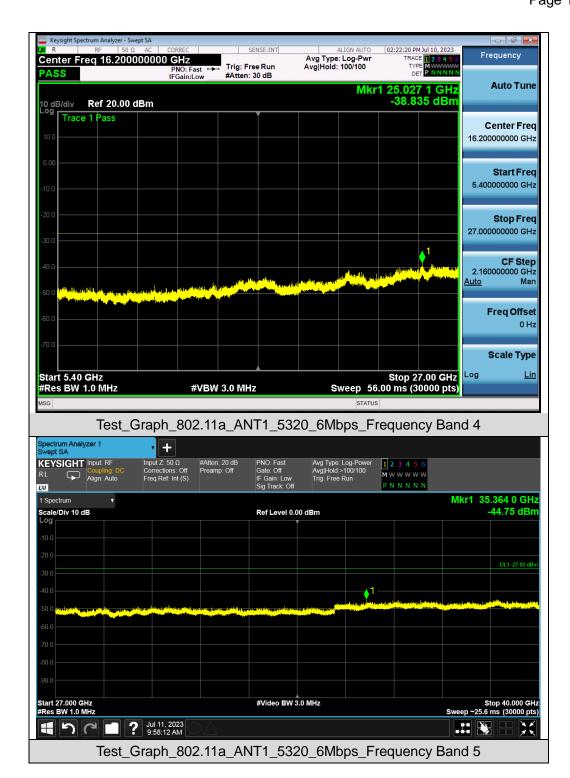
Test Graph 802.11a ANT1 5320 6Mbps Frequency Band 3

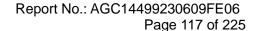
#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz









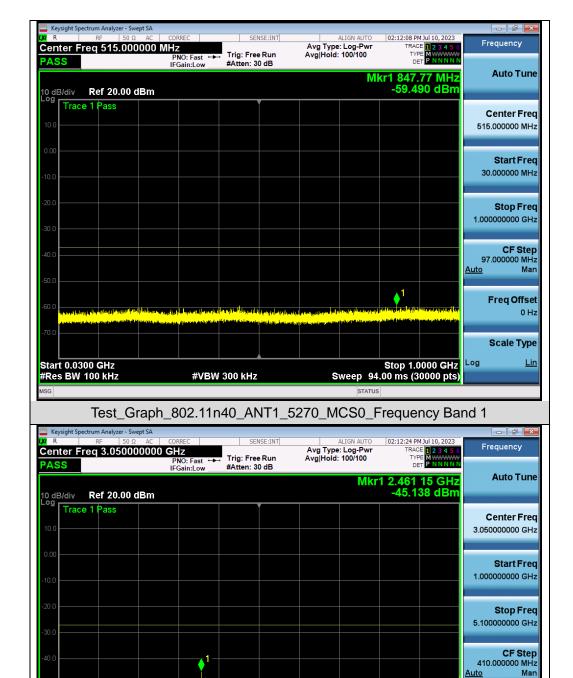
Freq Offset 0 Hz

Scale Type

Log

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)



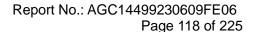


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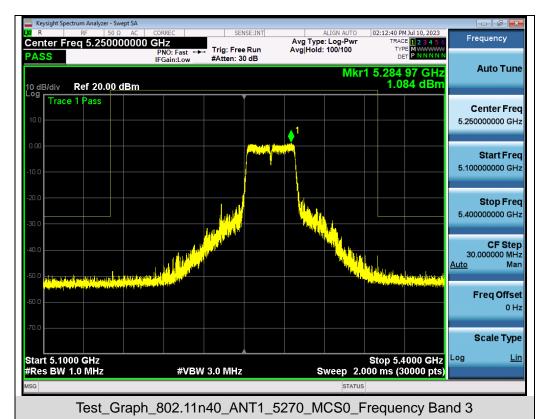
Test Graph 802.11n40 ANT1 5270 MCS0 Frequency Band 2

#VBW 3.0 MHz

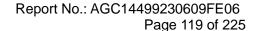
Start 1.000 GHz #Res BW 1.0 MHz



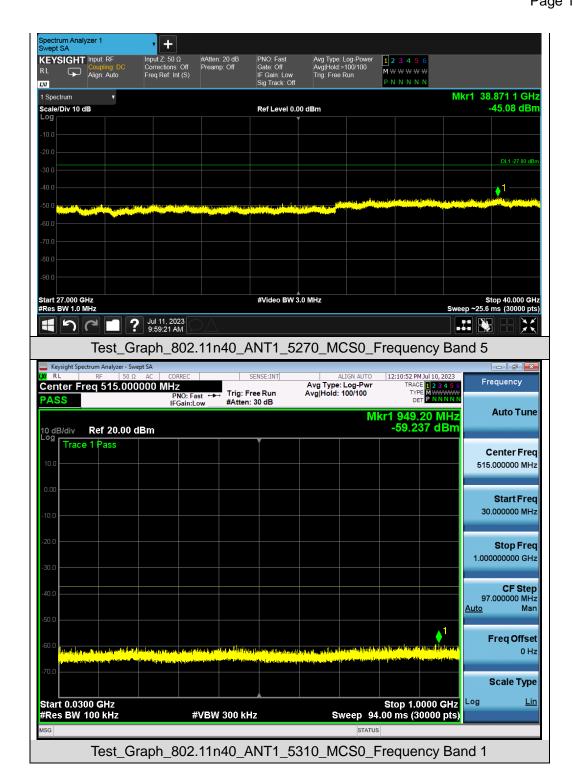


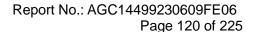












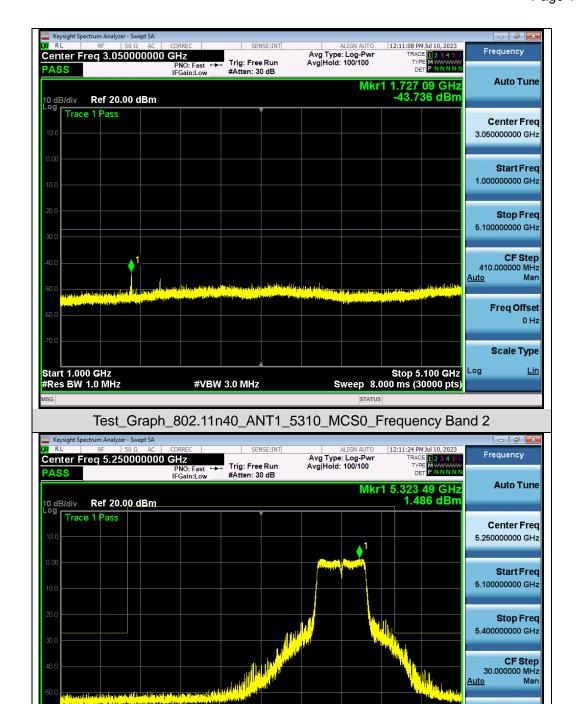
Freq Offset 0 Hz

Scale Type

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)





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Test Graph 802.11n40 ANT1 5310 MCS0 Frequency Band 3

#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz

