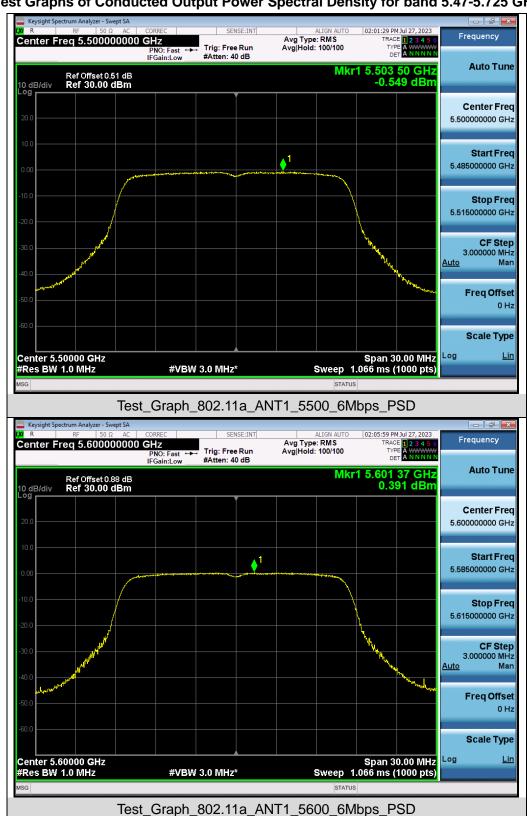
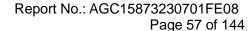


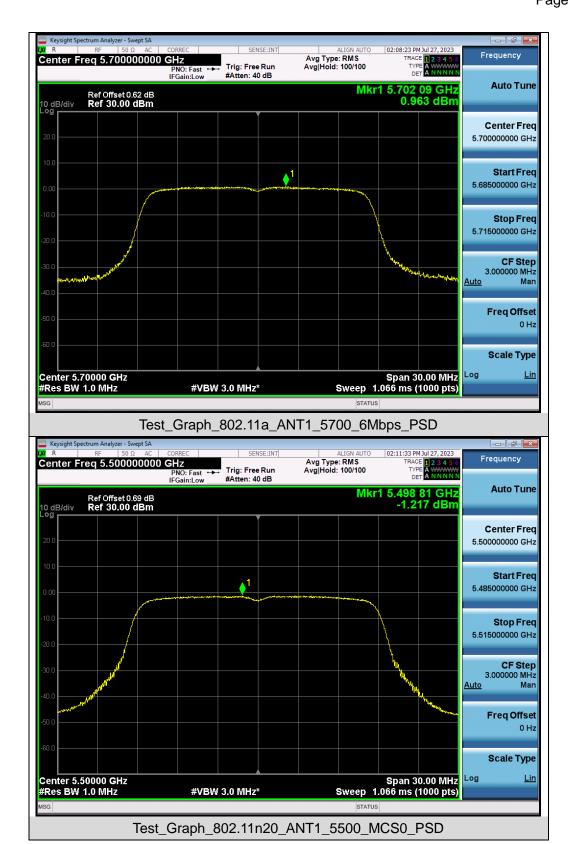


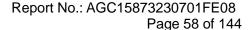
## Test Graphs of Conducted Output Power Spectral Density for band 5.47-5.725 GHz



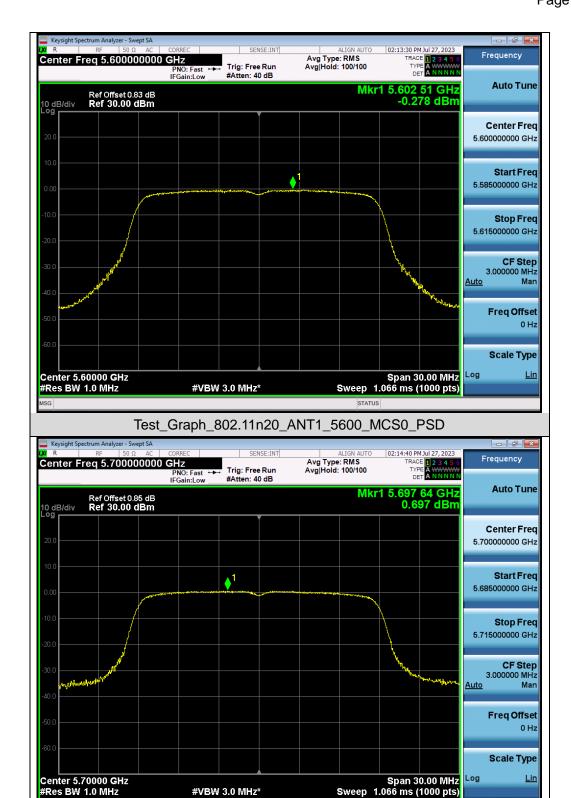




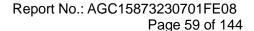






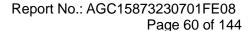


Test Graph 802.11n20 ANT1 5700 MCS0 PSD

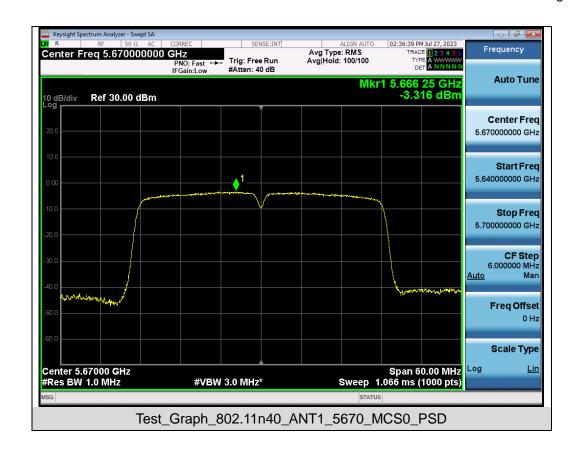


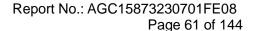






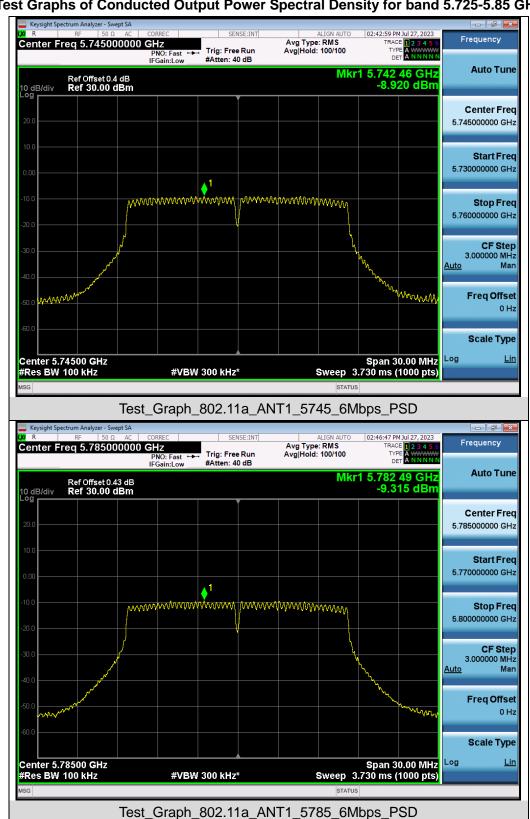


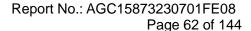




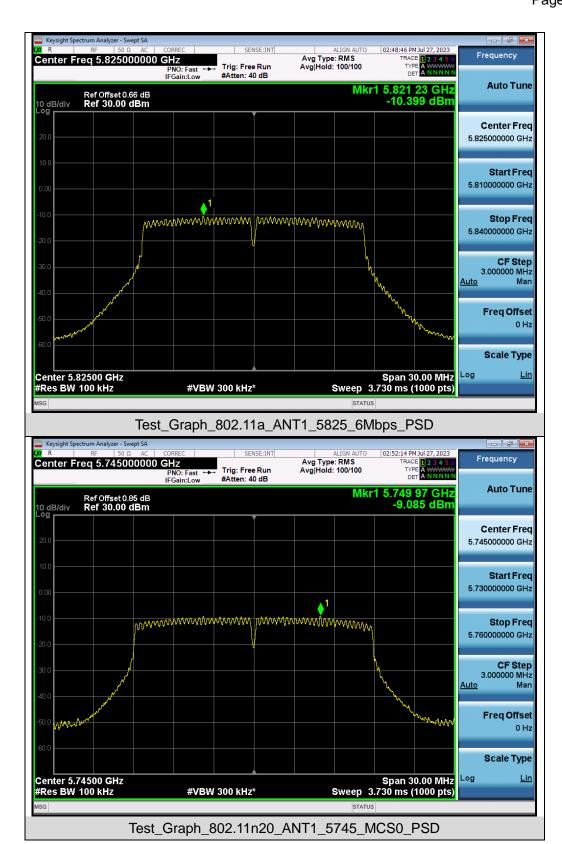


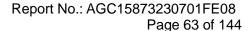
## Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



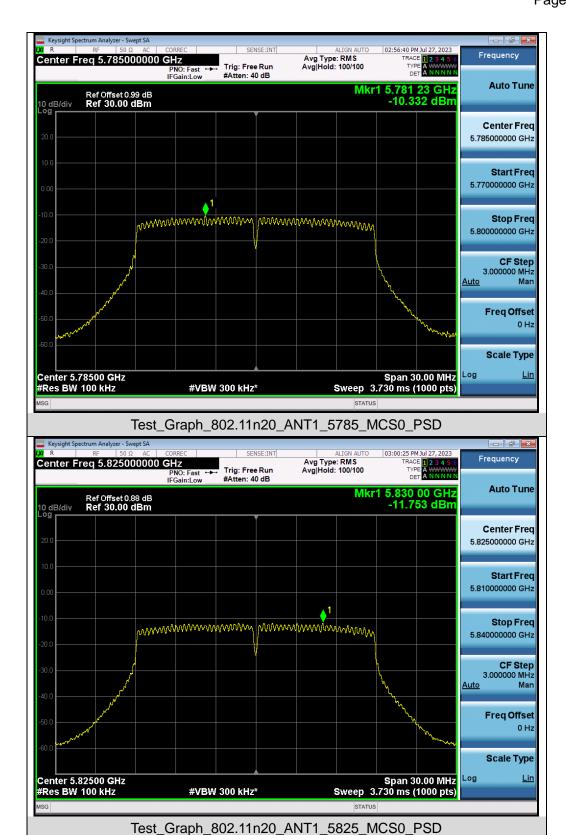


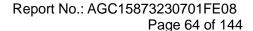




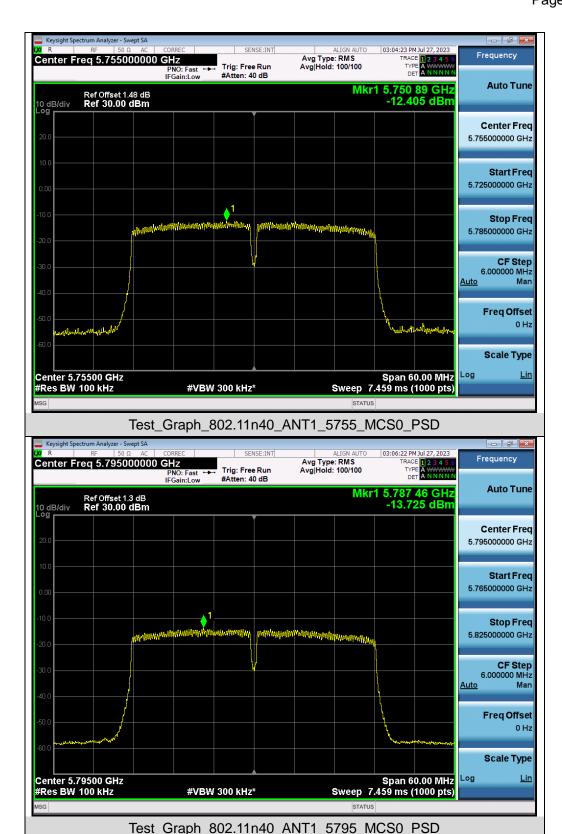














### 10. CONDUCTED SPURIOUS EMISSION

### **10.1 MEASUREMENT LIMIT**

Restricted bands	Applicable to	Limit	
	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:

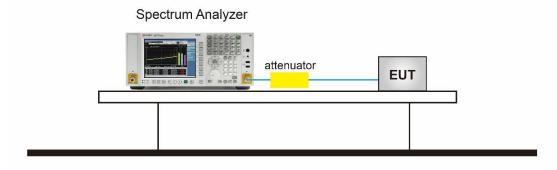
E = 
$$\frac{1000000 \sqrt{30 P}}{2}$$
 µV/m, where P is the eirp (Watts).

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.

#### **10.2 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.

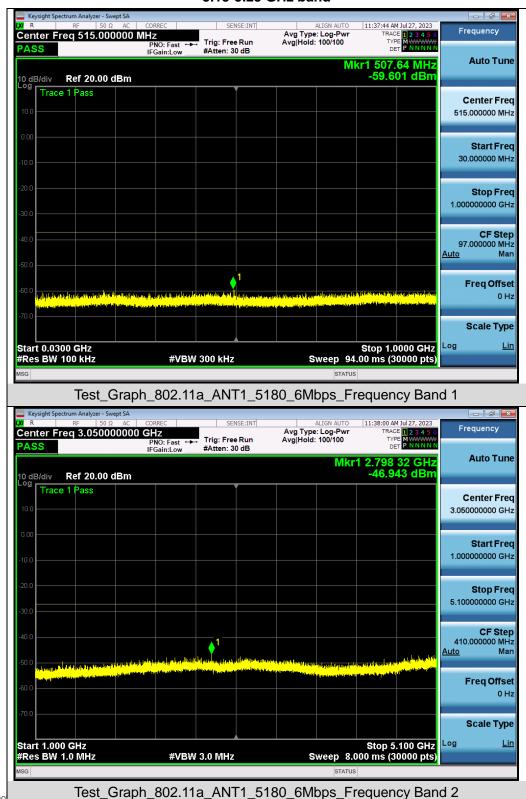
## 10.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





#### **10.4 MEASUREMENT RESULTS**

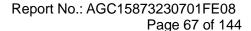
Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.15-5.25 GHz band



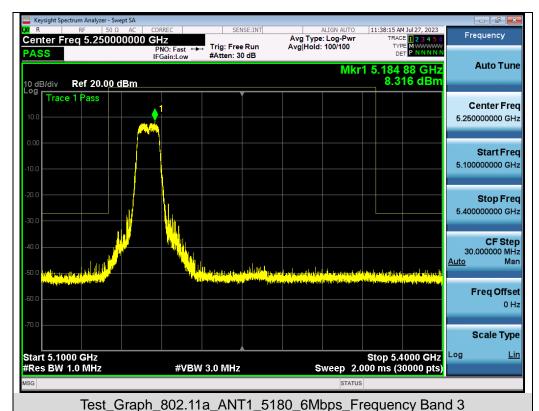
Any report having no esting/Inspection

Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

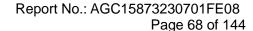
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



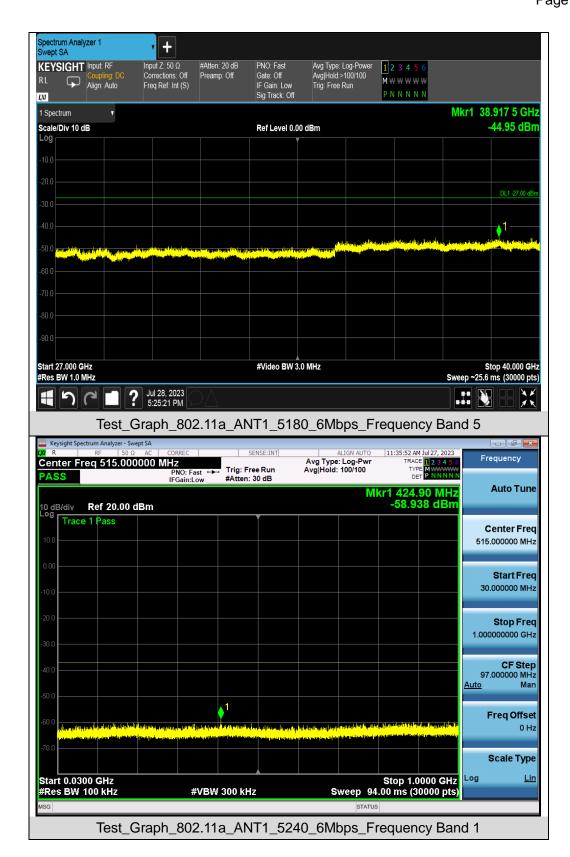


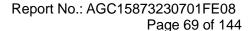












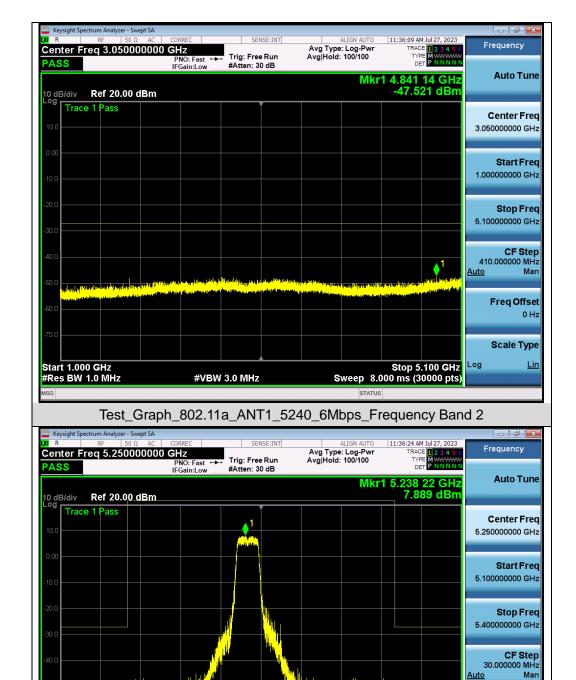
Freq Offset 0 Hz

Scale Type

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



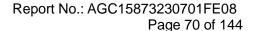


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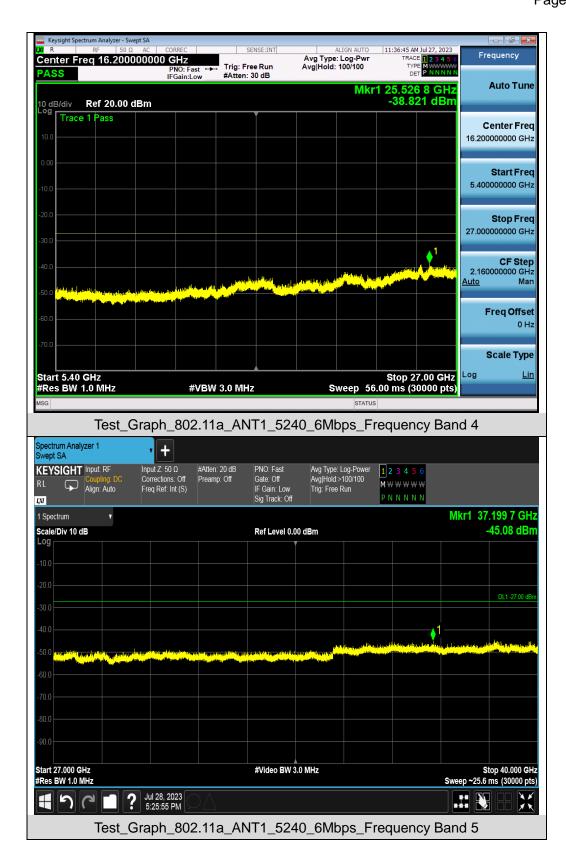
Test Graph 802.11a ANT1 5240 6Mbps Frequency Band 3

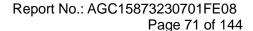
#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz





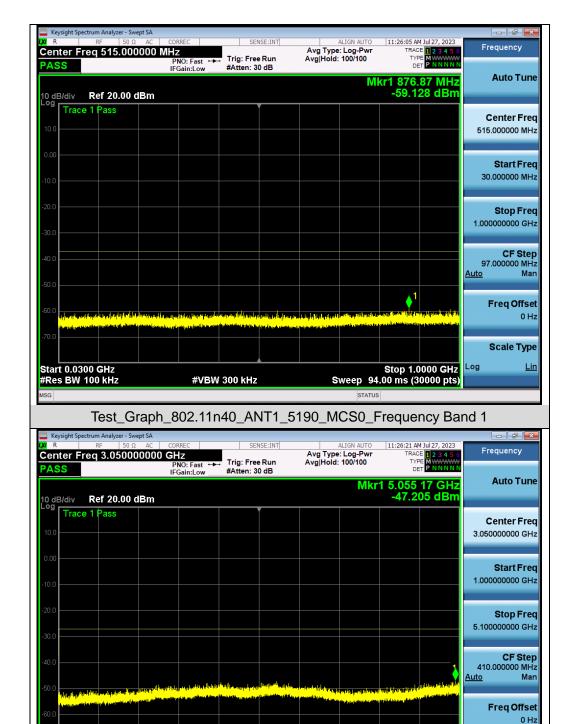




Scale Type

Stop 5.100 GHz Sweep 8.000 ms (30000 pts)



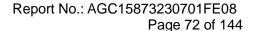


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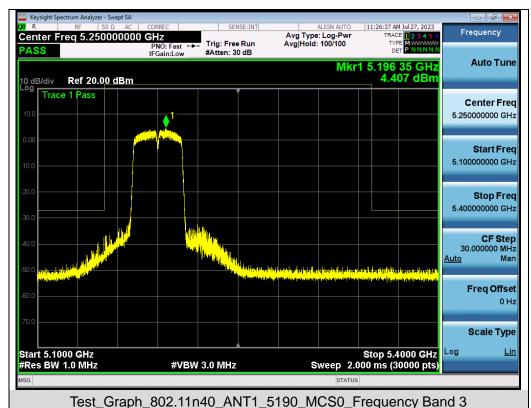
Test Graph 802.11n40 ANT1 5190 MCS0 Frequency Band 2

#VBW 3.0 MHz

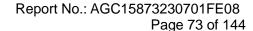
Start 1.000 GHz #Res BW 1.0 MHz



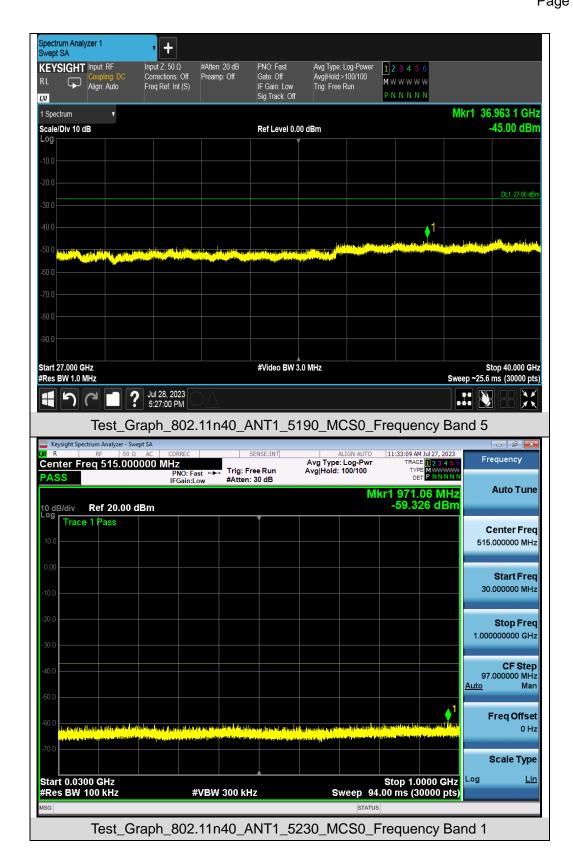


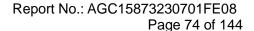




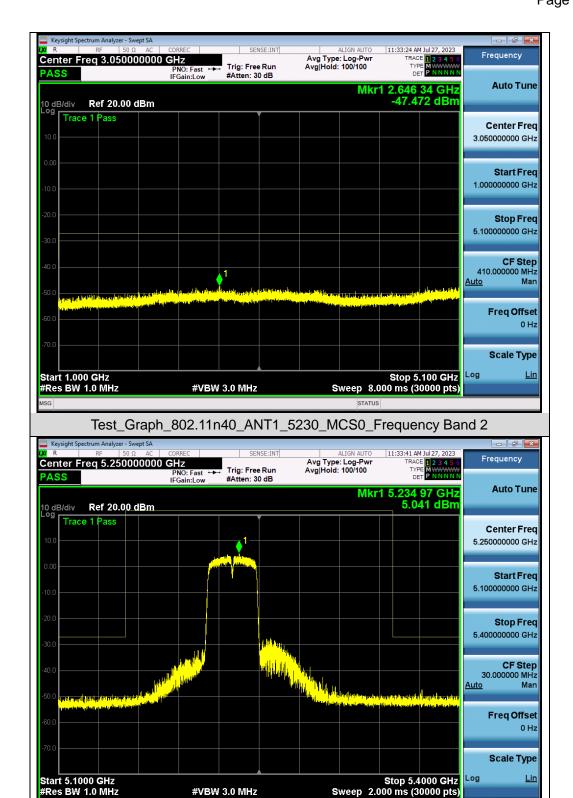




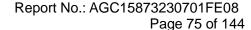




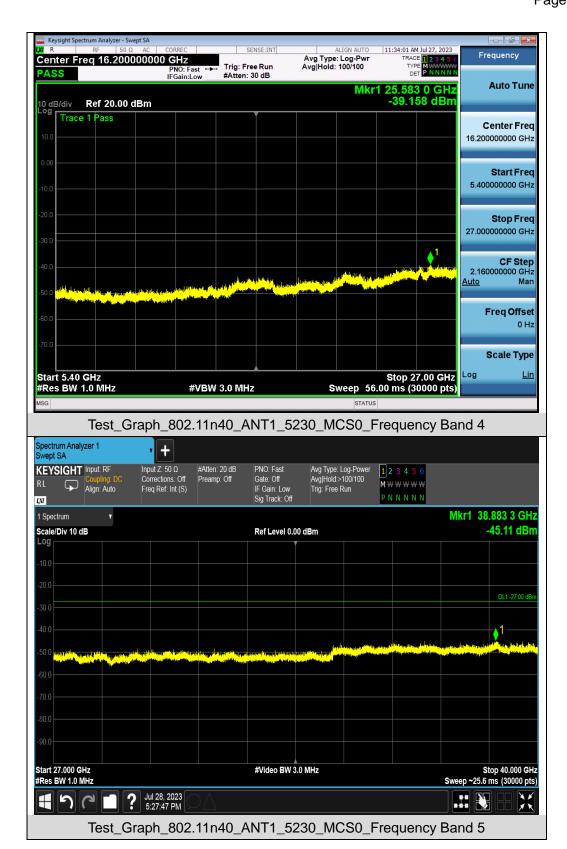


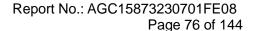


Test Graph 802.11n40 ANT1 5230 MCS0 Frequency Band 3



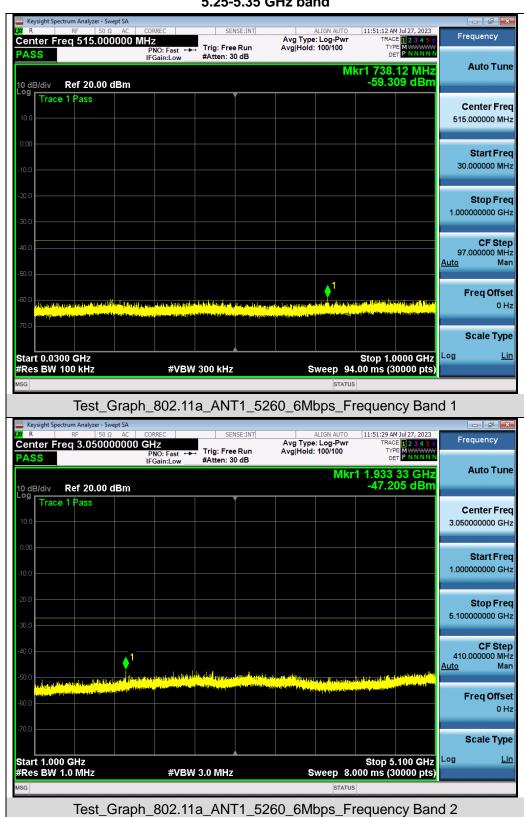


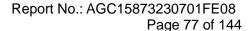




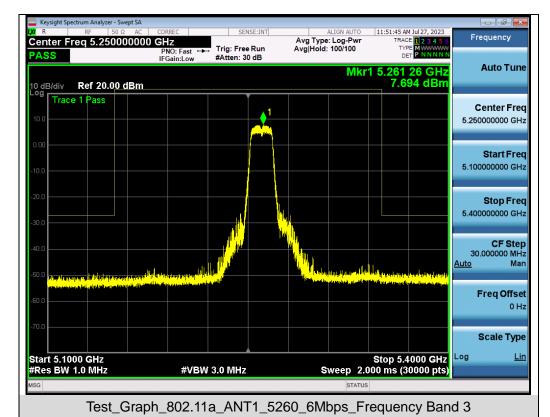


# Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band

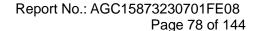




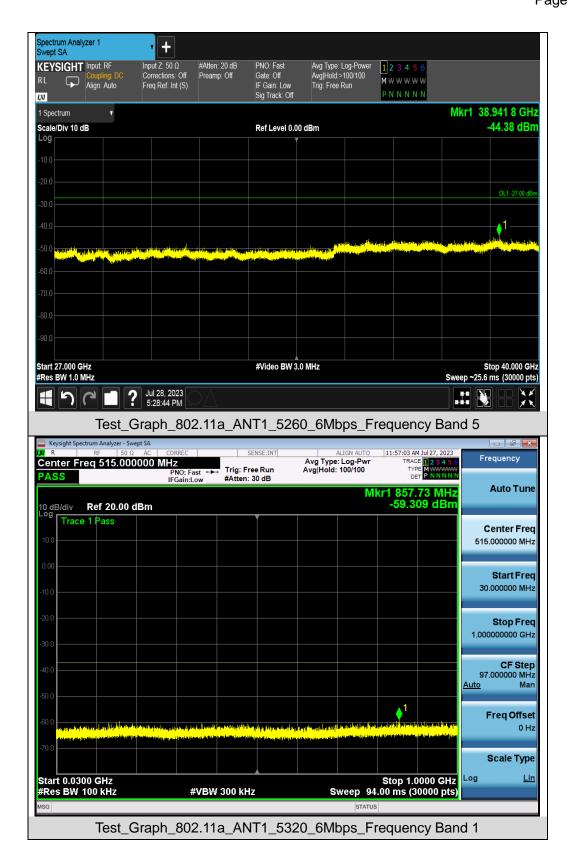


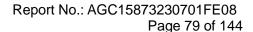








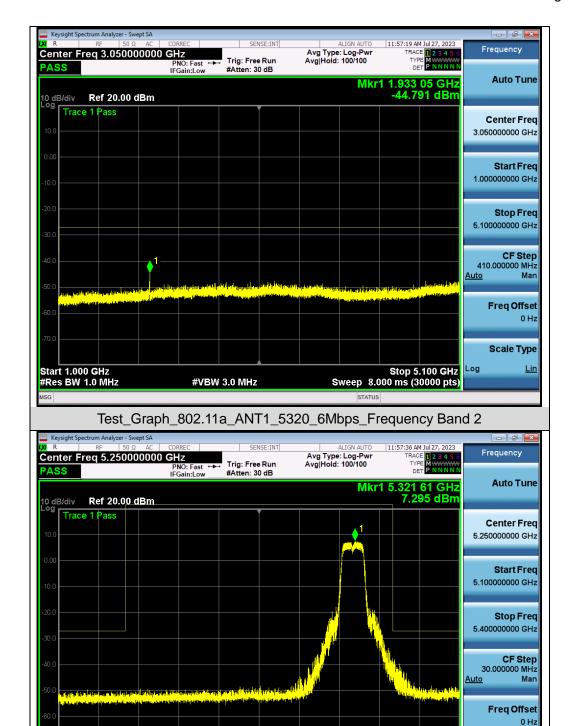




Scale Type

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



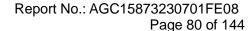


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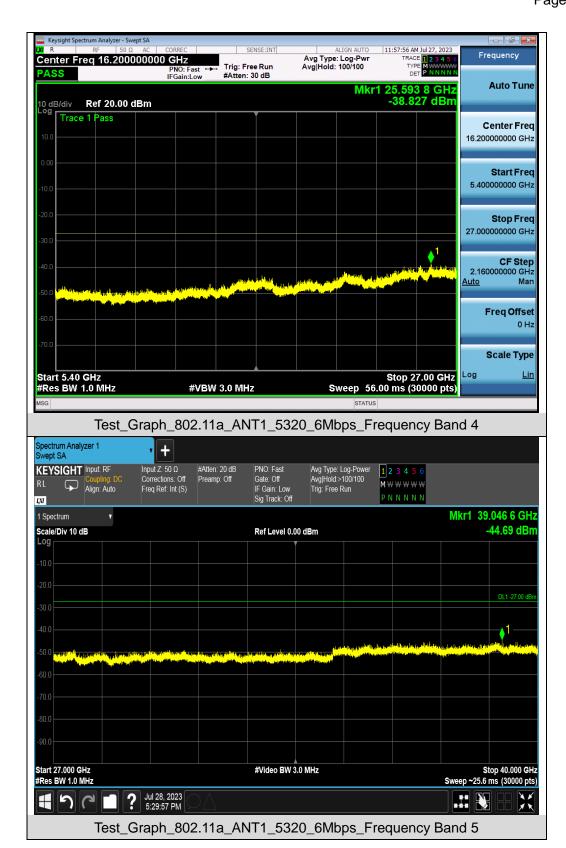
Test Graph 802.11a ANT1 5320 6Mbps Frequency Band 3

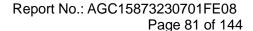
#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz

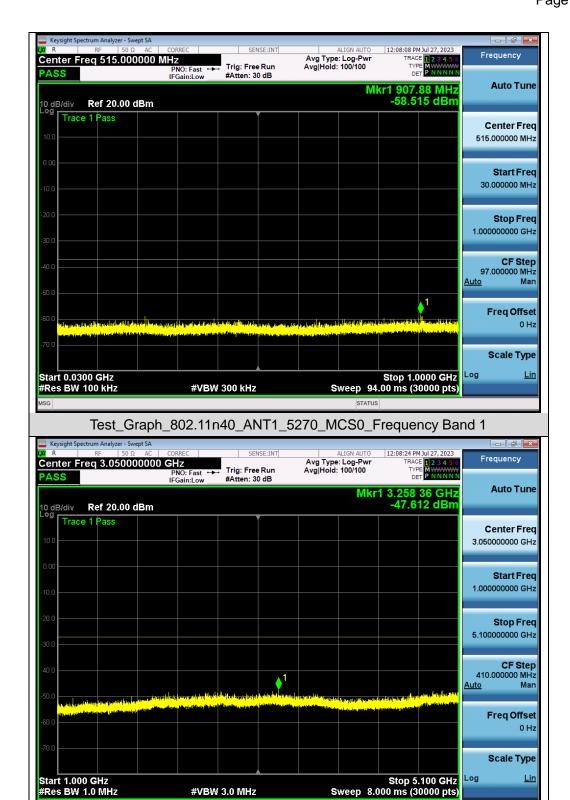




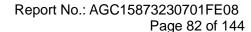




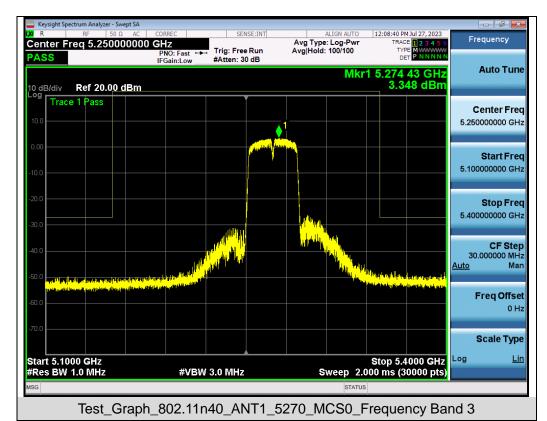




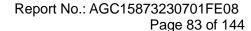
Test Graph 802.11n40 ANT1 5270 MCS0 Frequency Band 2



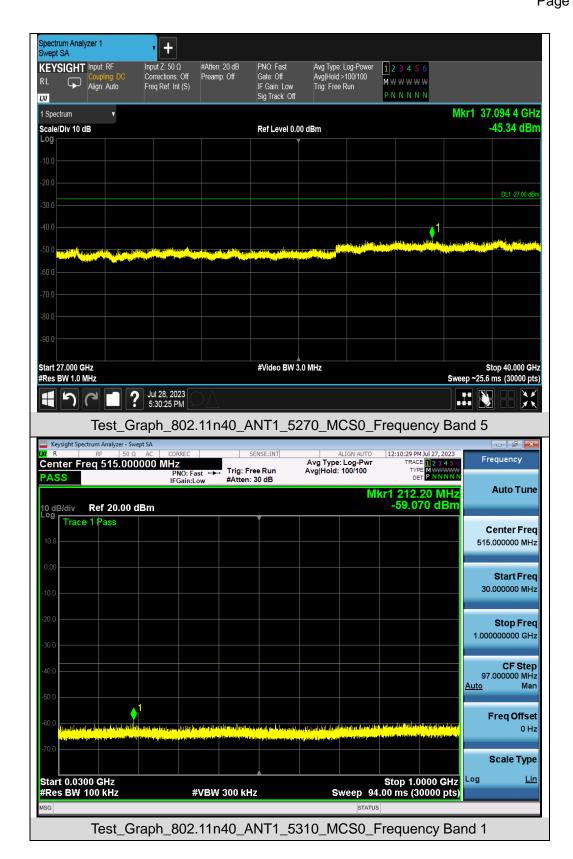


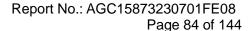




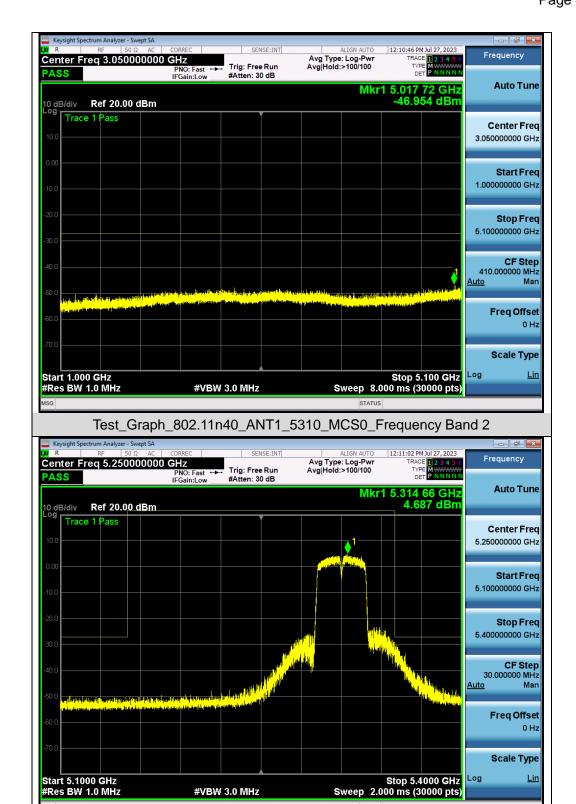




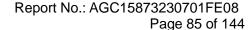




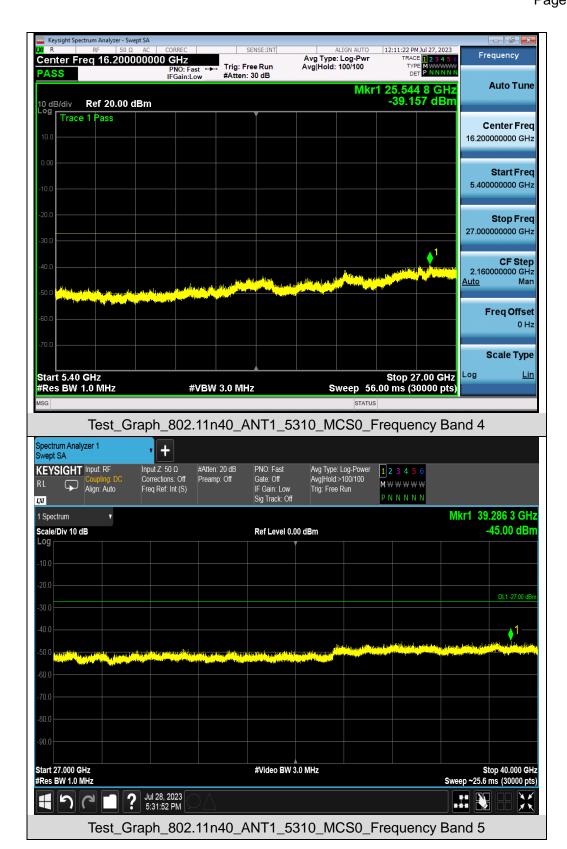


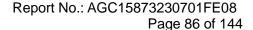


Test Graph 802.11n40 ANT1 5310 MCS0 Frequency Band 3



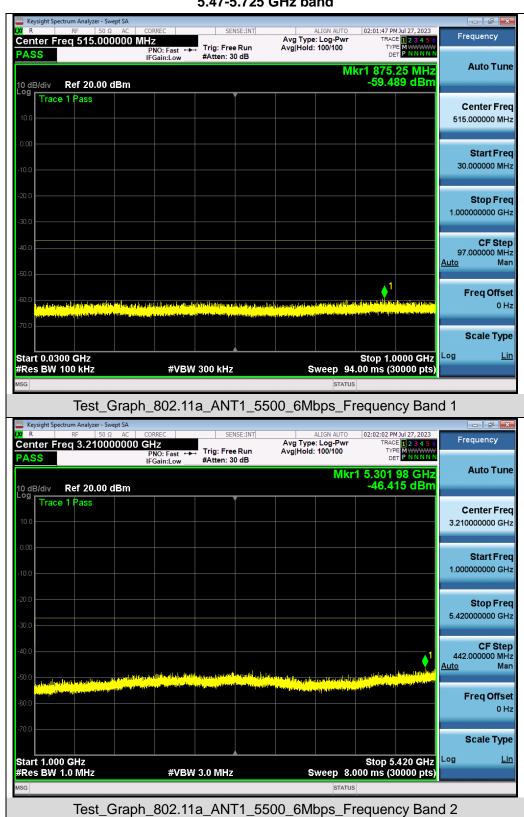


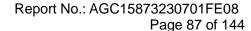




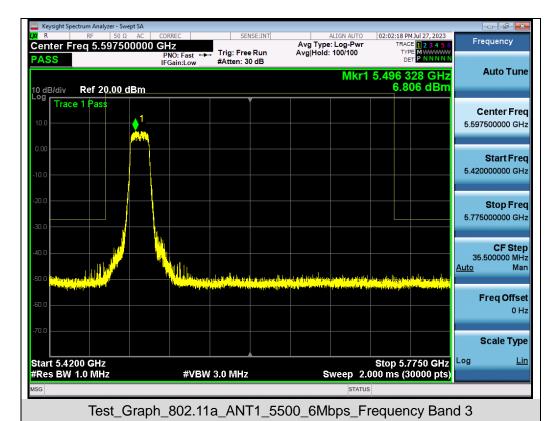


# Test Graphs of Spurious Emissions outside of the 5.47-5.725 GHz band for transmitters operating in the 5.47-5.725 GHz band

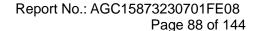




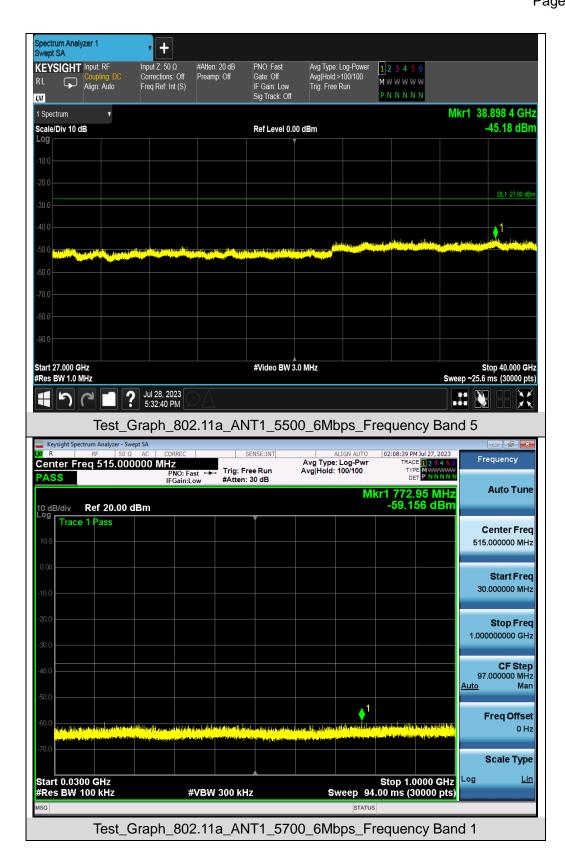


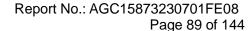












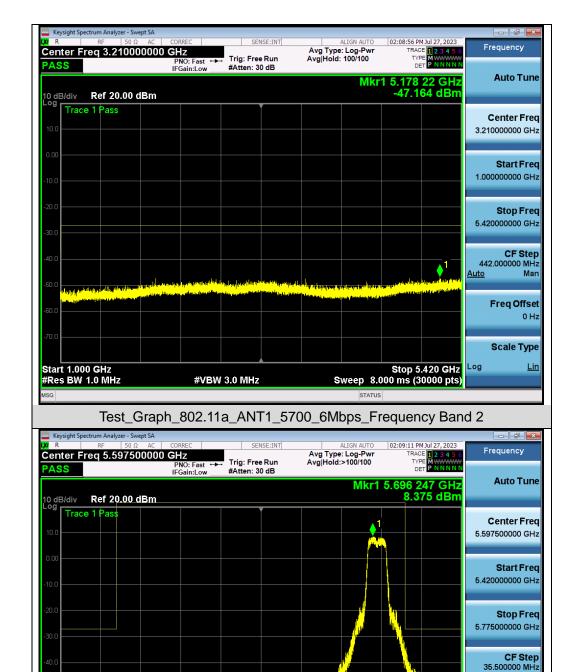
<u>Auto</u>

Stop 5.7750 GHz Sweep 2.000 ms (30000 pts) Man

Freq Offset 0 Hz

Scale Type



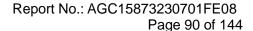


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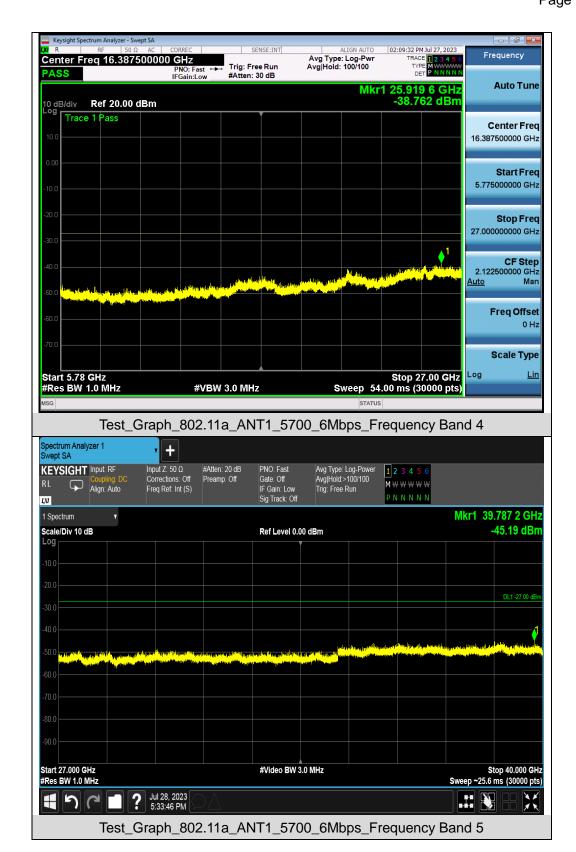
Test Graph 802.11a ANT1 5700 6Mbps Frequency Band 3

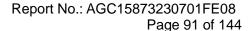
#VBW 3.0 MHz

Start 5.4200 GHz #Res BW 1.0 MHz







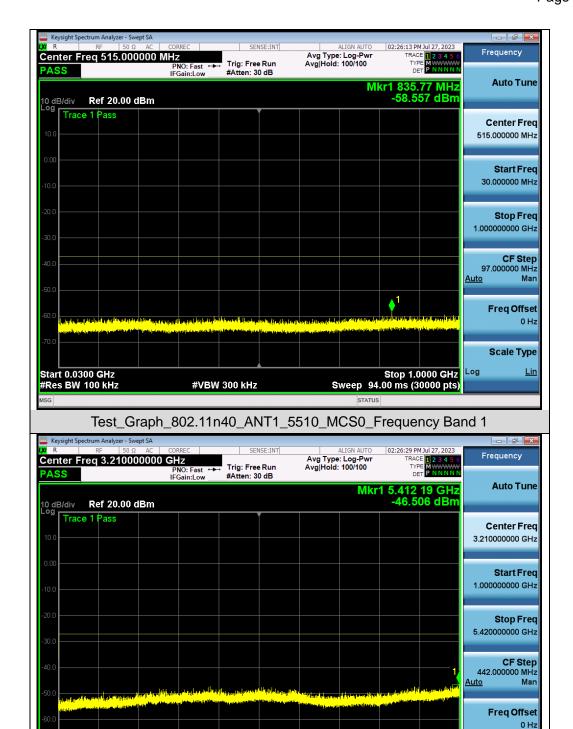


Scale Type

Log

Stop 5.420 GHz Sweep 8.000 ms (30000 pts)



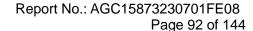


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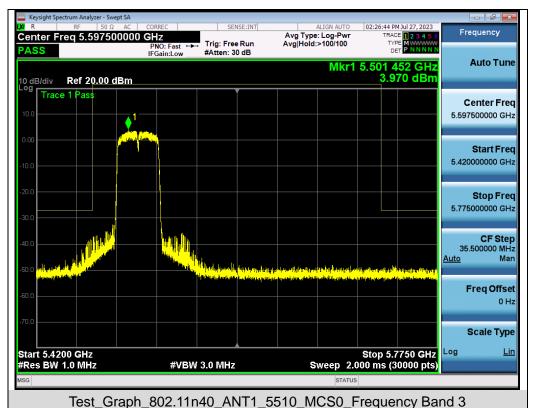
Test Graph 802.11n40 ANT1 5510 MCS0 Frequency Band 2

#VBW 3.0 MHz

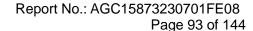
Start 1.000 GHz #Res BW 1.0 MHz



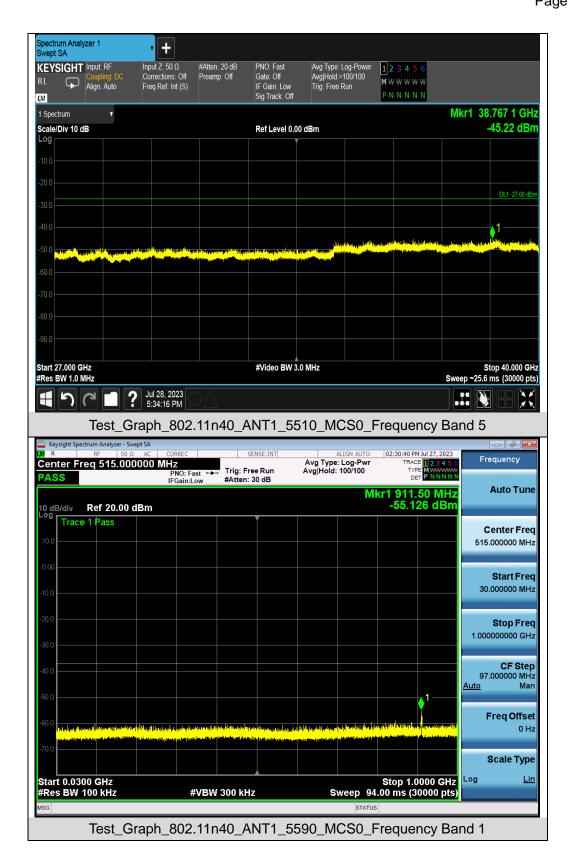


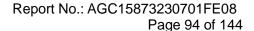




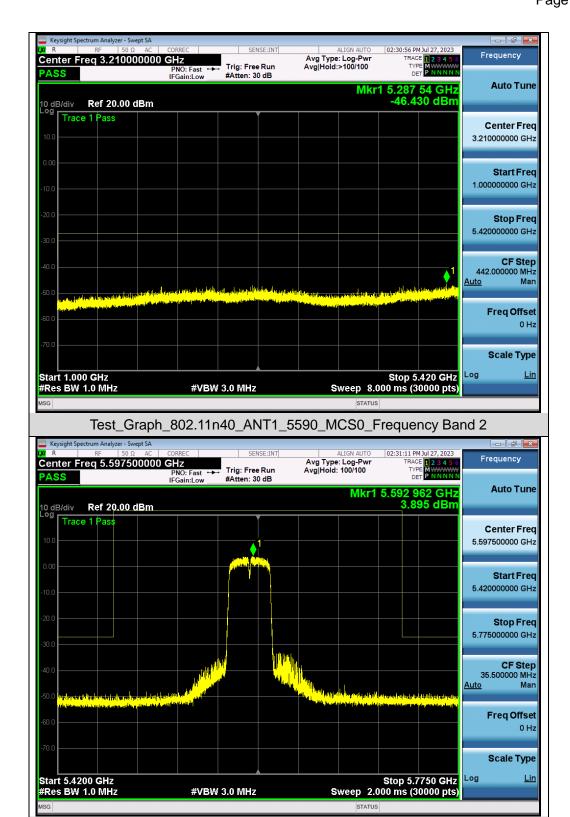




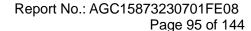




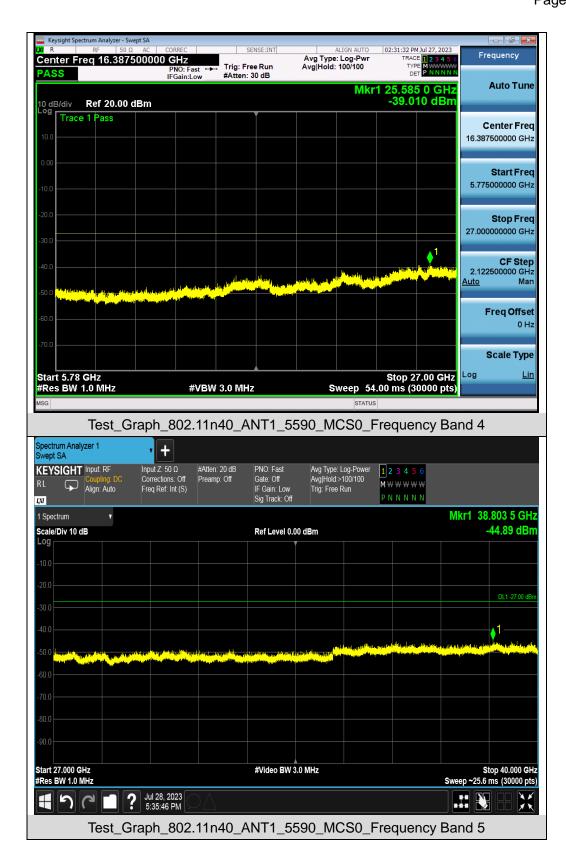




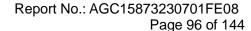
Test Graph 802.11n40 ANT1 5590 MCS0 Frequency Band 3







Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



**CF Step** 442.000000 MHz

Freq Offset 0 Hz

Scale Type

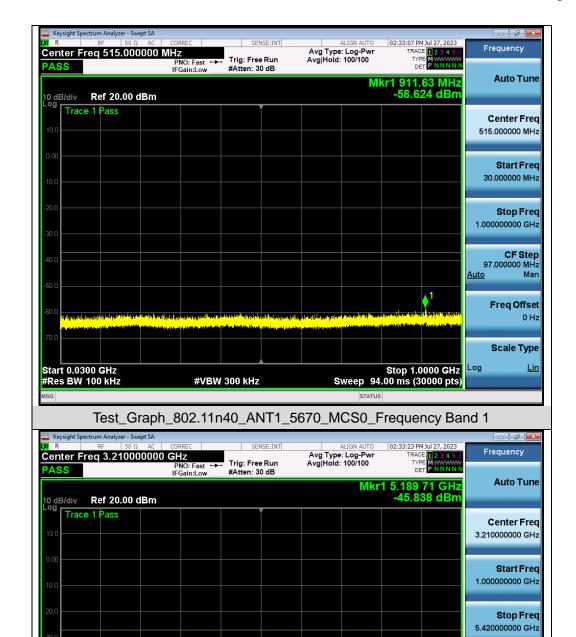
Man

<u>Auto</u>

Log

Stop 5.420 GHz Sweep 8.000 ms (30000 pts)



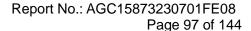


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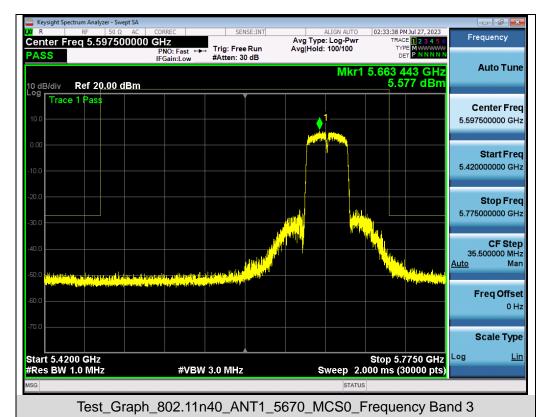
Test Graph 802.11n40 ANT1 5670 MCS0 Frequency Band 2

#VBW 3.0 MHz

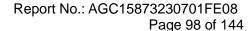
Start 1.000 GHz #Res BW 1.0 MHz



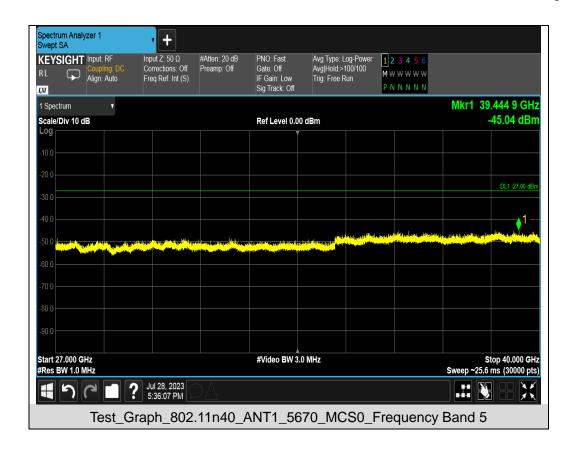


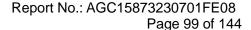






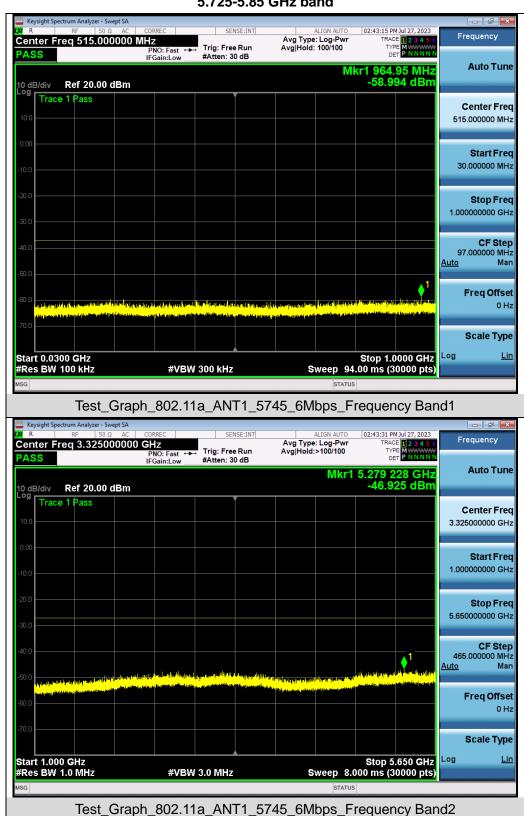


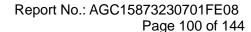




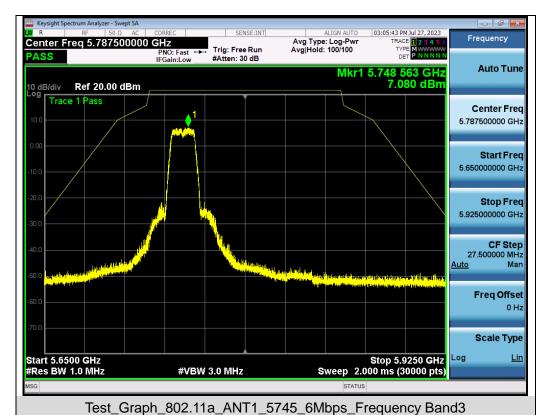


## Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band

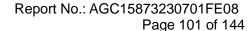




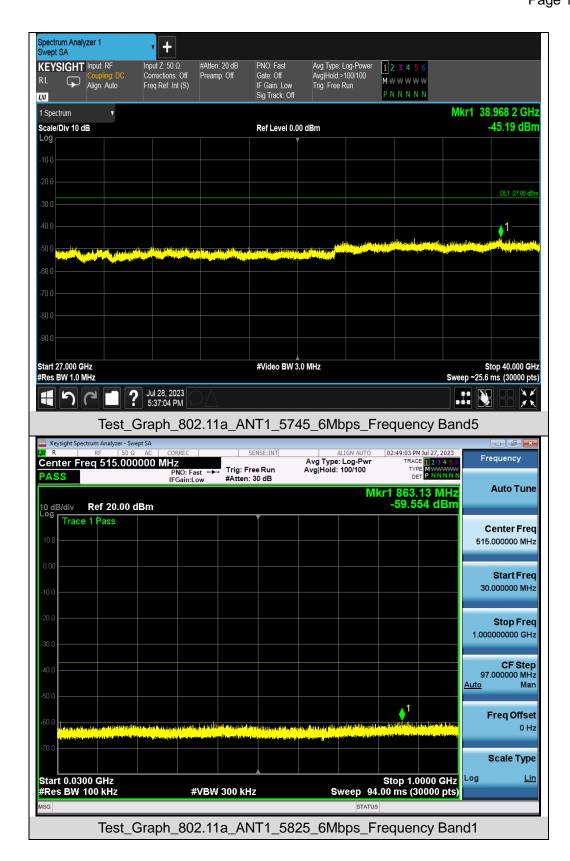


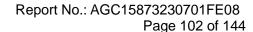










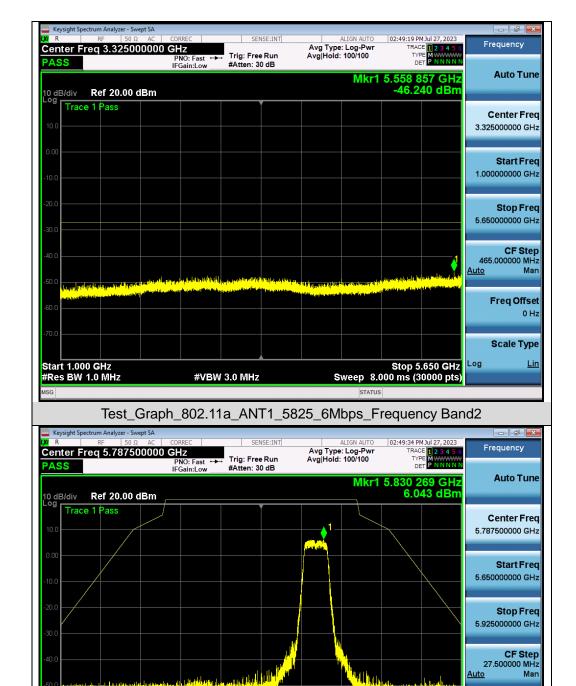


Freq Offset 0 Hz

Scale Type

Stop 5.9250 GHz Sweep 2.000 ms (30000 pts)



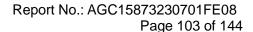


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

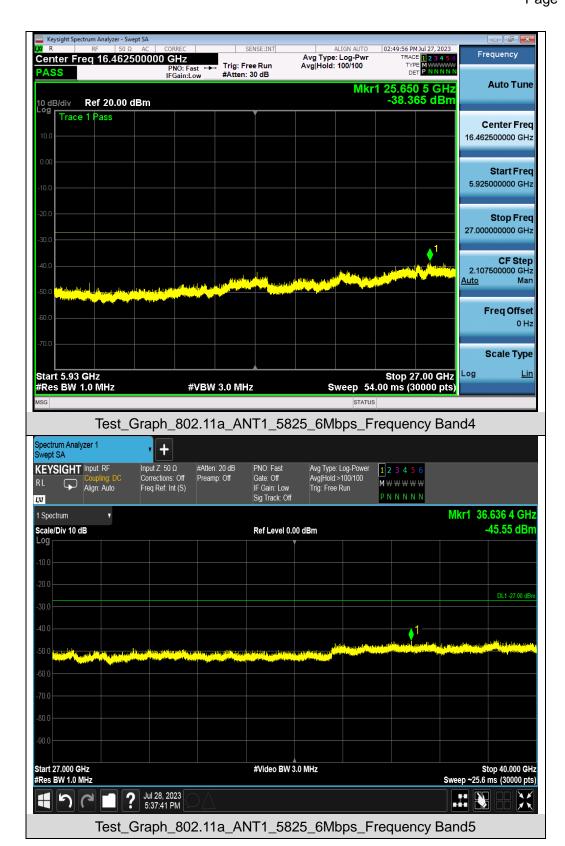
Test Graph 802.11a ANT1 5825 6Mbps Frequency Band3

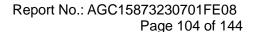
#VBW 3.0 MHz

Start 5.6500 GHz #Res BW 1.0 MHz









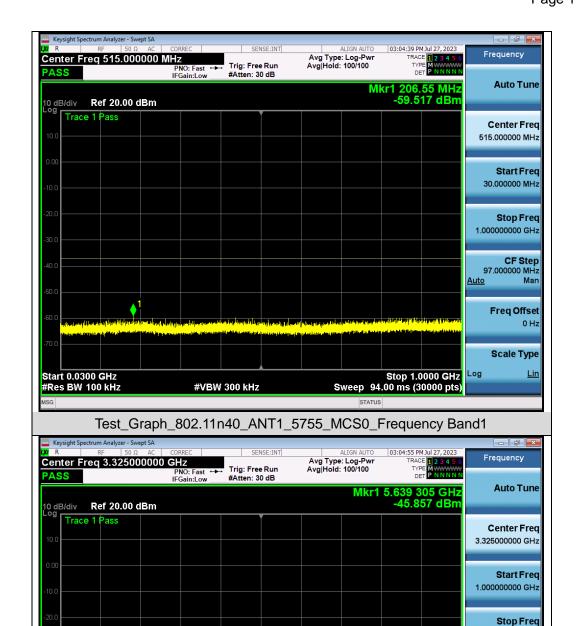
5.650000000 GHz

**CF Step** 465.000000 MHz

Man

<u>Auto</u>





Freq Offset
0 Hz

Start 1.000 GHz
#Res BW 1.0 MHz

Test\_Graph\_802.11n40\_ANT1\_5755\_MCS0\_Frequency Band2

