

Center Freq
13.741750000 GHz

Start Freq
2.483500000 GHz

CF Step
2.251650000 GHz

CF Step
2.251650000 GHz

Auto Man

Freq Offset
0 Hz

Start Z.48 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.152 s (30000 pts)

Test_Graph_802.11g_ANT1_2412_6Mbps_Higher Band Emissions

25 000000000 GHz

CF Step 2.251650000 GHz

> Freq Offset 0 Hz

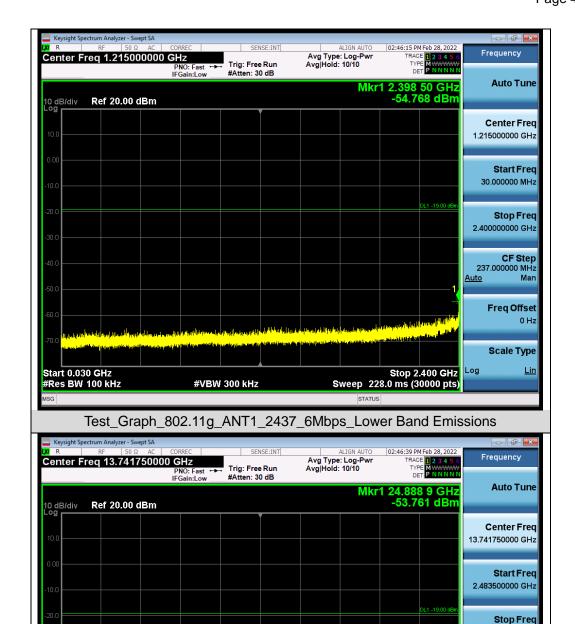
Scale Type

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts) Man

<u>Lin</u>





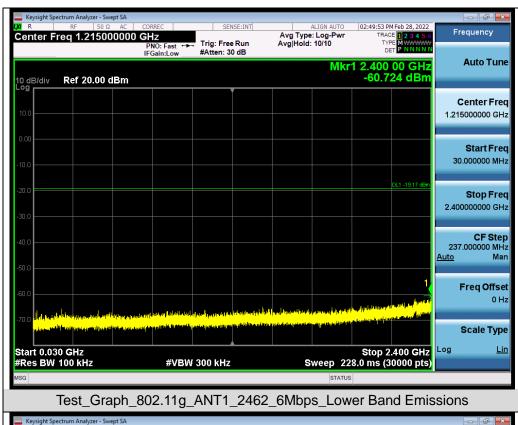
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Test_Graph_802.11g_ANT1_2437_6Mbps_Higher Band Emissions

#VBW 300 kHz

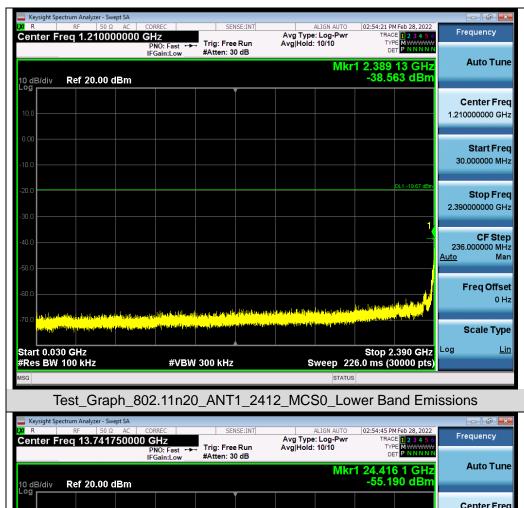
Start 2.48 GHz #Res BW 100 kHz

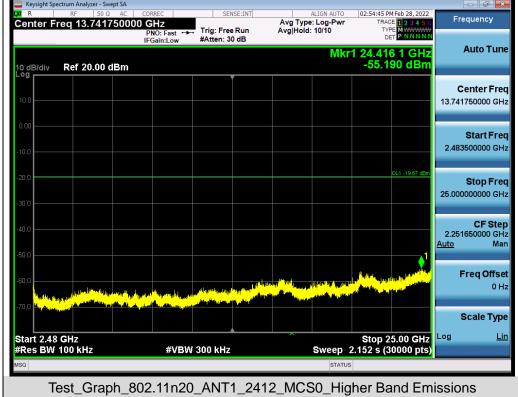










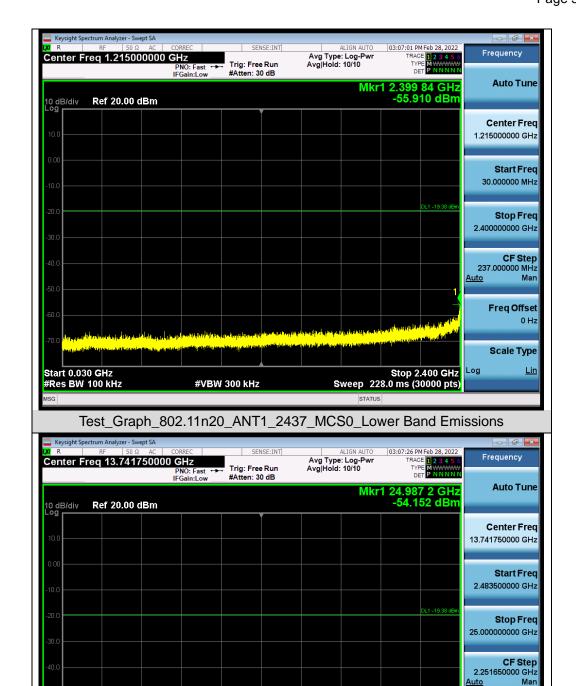


Freq Offset 0 Hz

Scale Type

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11n20_ANT1_2437_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz

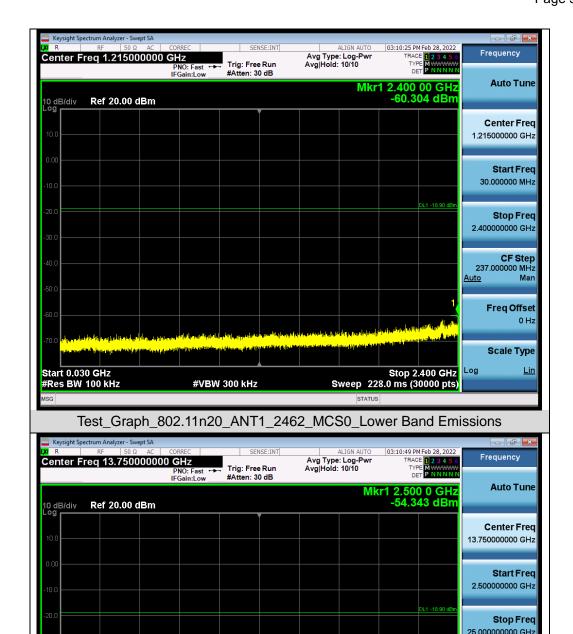
CF Step 2.250000000 GHz

> Freq Offset 0 Hz

Scale Type

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





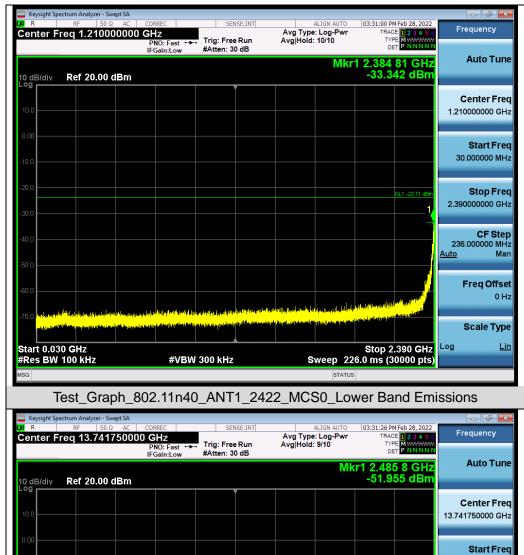
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Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz





Center Freq
13.741750000 GHz

Start Freq
2.483500000 GHz

Stop Freq
25.000000000 GHz

CF Step
2.251650000 GHz

Auto Man

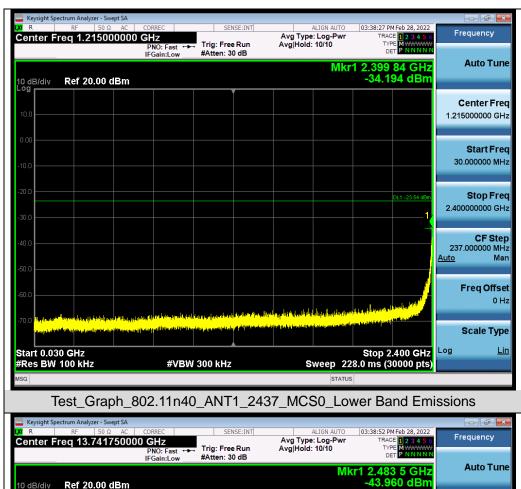
Freq Offset
0 Hz

Scale Type

Start 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.152 s (30000 pts)

Test_Graph_802.11n40_ANT1_2422_MCS0_Higher Band Emissions







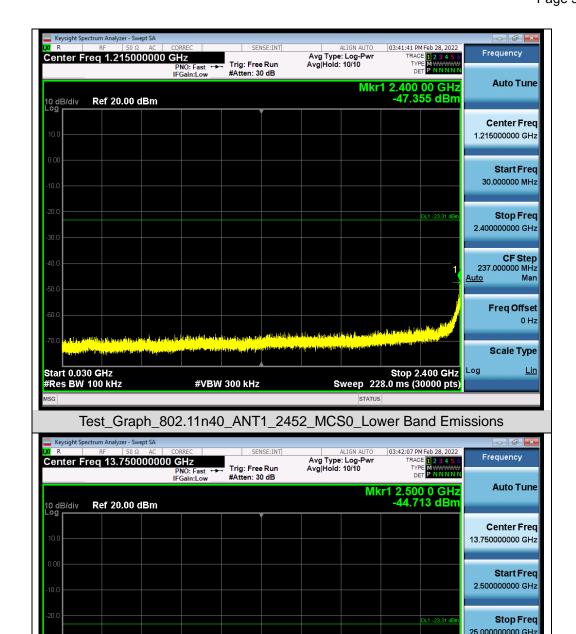
CF Step 2.250000000 GHz

> Freq Offset 0 Hz

Scale Type

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11n40_ANT1_2452_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz

CF Step 2.251650000 GHz

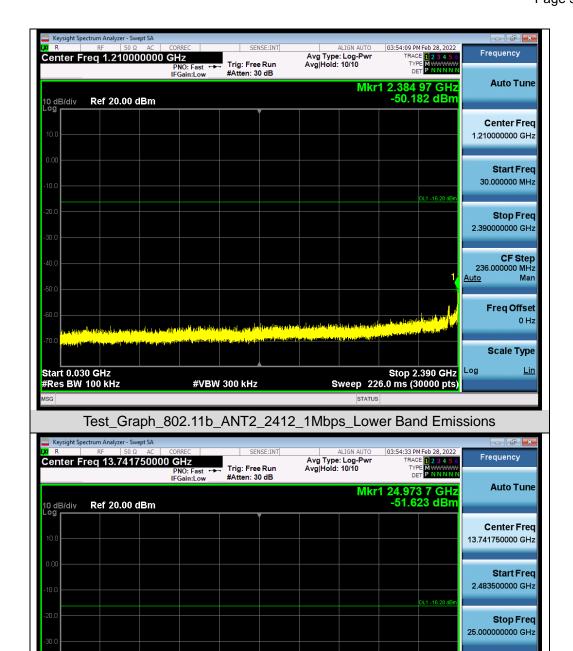
> Freq Offset 0 Hz

Scale Type

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11b_ANT2_2412_1Mbps_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz

CF Step 2.251650000 GHz

> Freq Offset 0 Hz

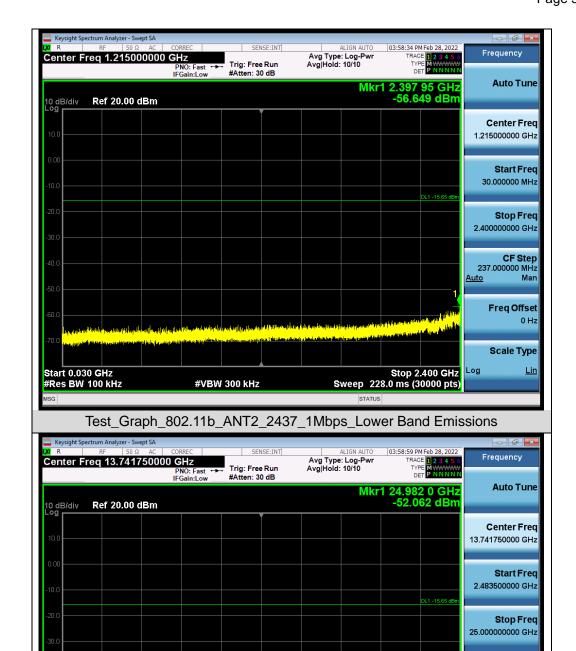
Scale Type

<u>Lin</u>

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11b_ANT2_2437_1Mbps_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz

25 000000000 GHz

CF Step 2.250000000 GHz

> Freq Offset 0 Hz

Scale Type

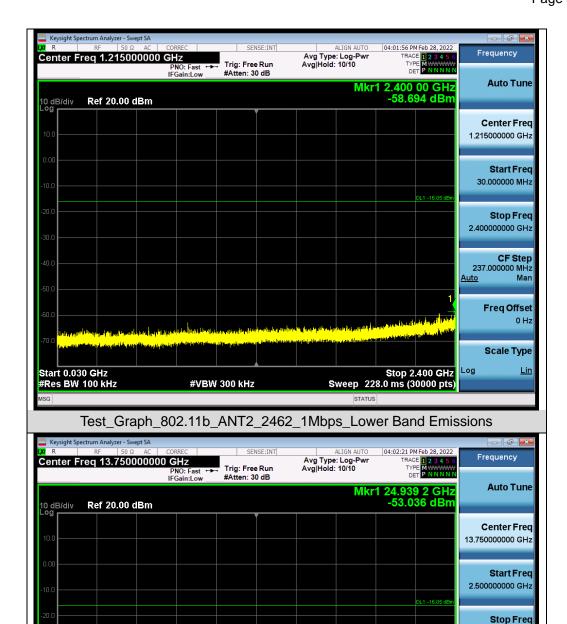
<u>Lin</u>

<u>Auto</u>

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





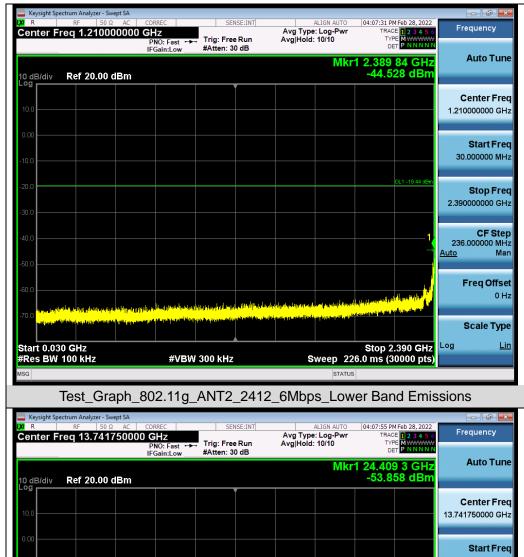
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Test_Graph_802.11b_ANT2_2462_1Mbps_Higher Band Emissions

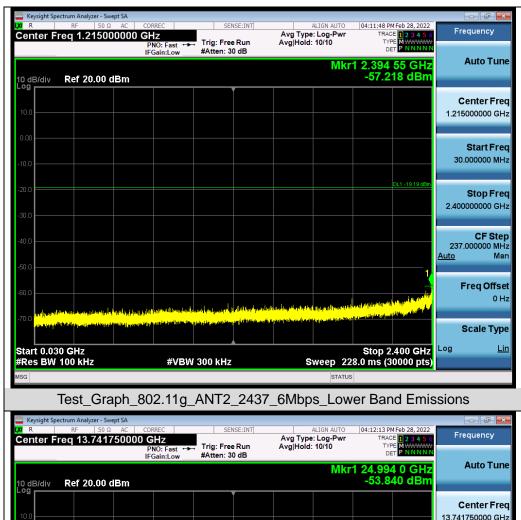
#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz









13.741750000 GHz Start Freq 2.483500000 GHz Stop Freq 25 000000000 GHz CF Step 2.251650000 GHz Man Freq Offset 0 Hz Scale Type Start 2.48 GHz #Res BW 100 kHz Stop 25.00 GHz Sweep 2.152 s (30000 pts) Log <u>Lin</u> **#VBW** 300 kHz Test_Graph_802.11g_ANT2_2437_6Mbps_Higher Band Emissions

Stop Freq

CF Step 2.250000000 GHz

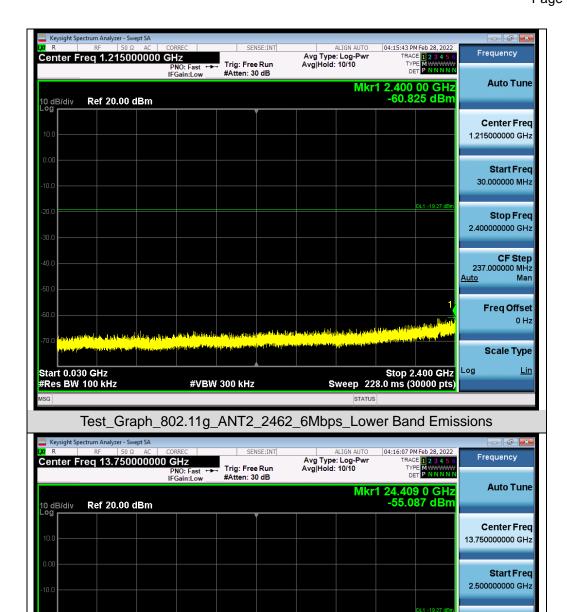
> Freq Offset 0 Hz

Scale Type

<u>Auto</u>

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11g_ANT2_2462_6Mbps_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz

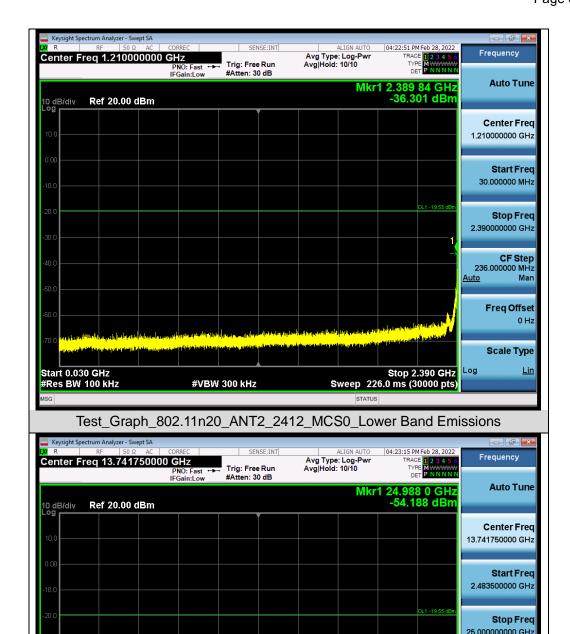
CF Step 2.251650000 GHz

> Freq Offset 0 Hz

Scale Type

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





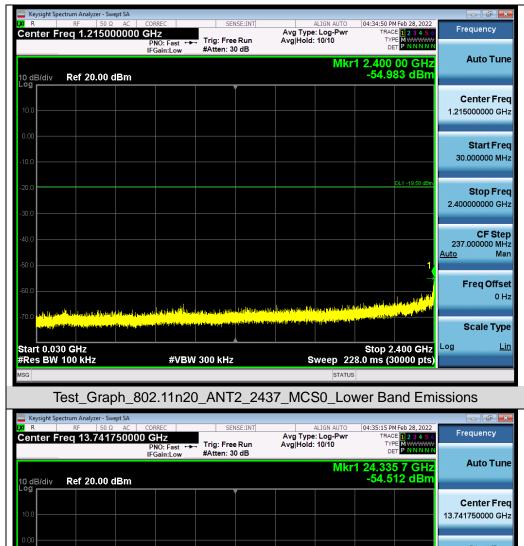
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Test_Graph_802.11n20_ANT2_2412_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz





Center Freq
13.741750000 GHz

Start Freq
2.483500000 GHz

Stop Freq
25.000000000 GHz

CF Step
2.251650000 GHz

Auto Man

Freq Offset
0 Hz

Start 2.48 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.152 s (30000 pts)

Test_Graph_802.11n20_ANT2_2437_MCS0_Higher Band Emissions

25 000000000 GHz

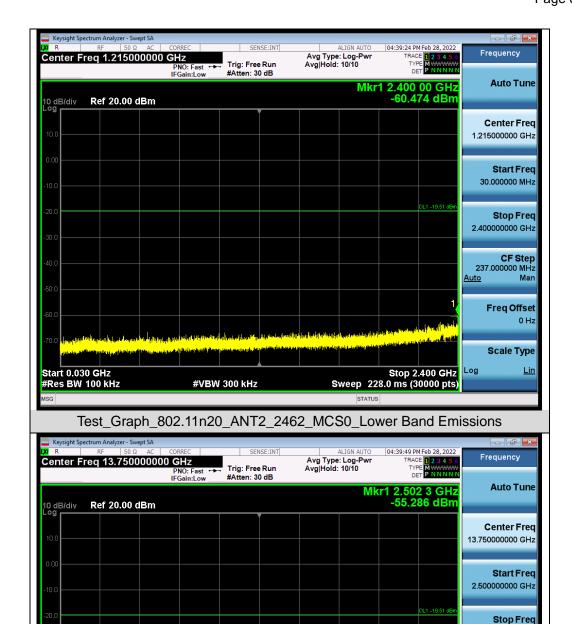
CF Step 2.250000000 GHz

> Freq Offset 0 Hz

Scale Type

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11n20_ANT2_2462_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz

Stop Freq

25 000000000 GHz

CF Step 2.251650000 GHz

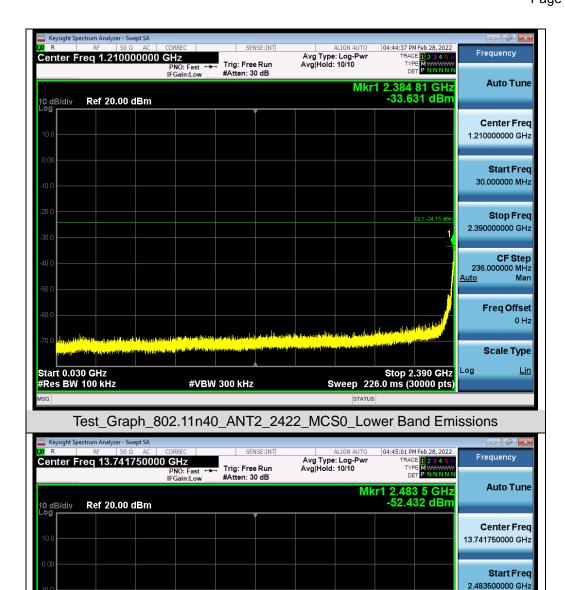
> Freq Offset 0 Hz

Scale Type

L1 -24.15 dl

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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Test_Graph_802.11n40_ANT2_2422_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz

25 000000000 GHz

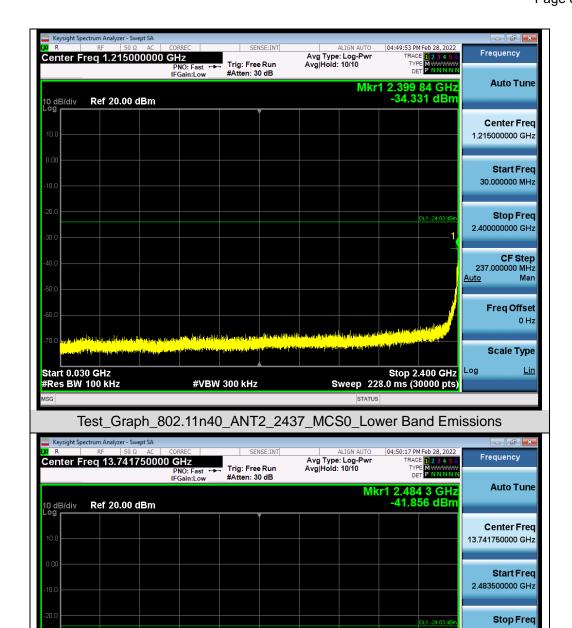
CF Step 2.251650000 GHz

> Freq Offset 0 Hz

Scale Type

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





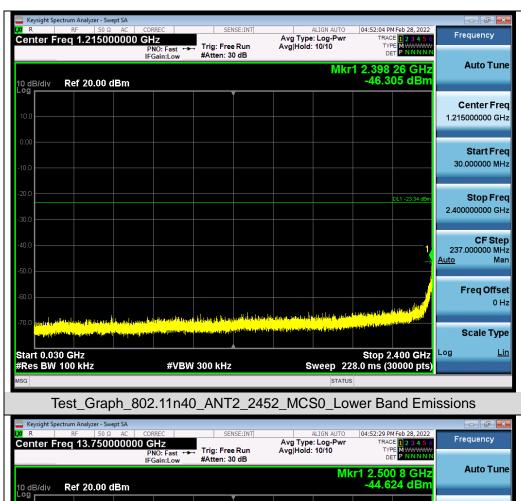
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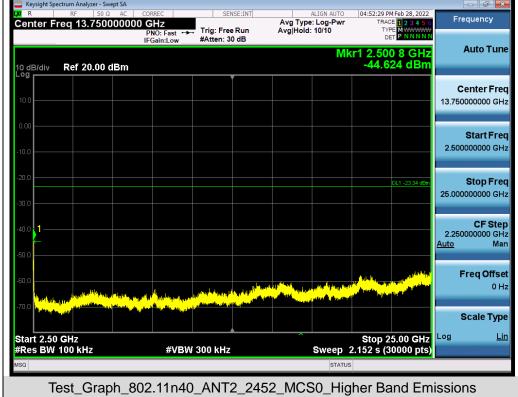
Test_Graph_802.11n40_ANT2_2437_MCS0_Higher Band Emissions

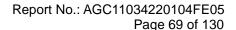
#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz









<u>Lin</u>



Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

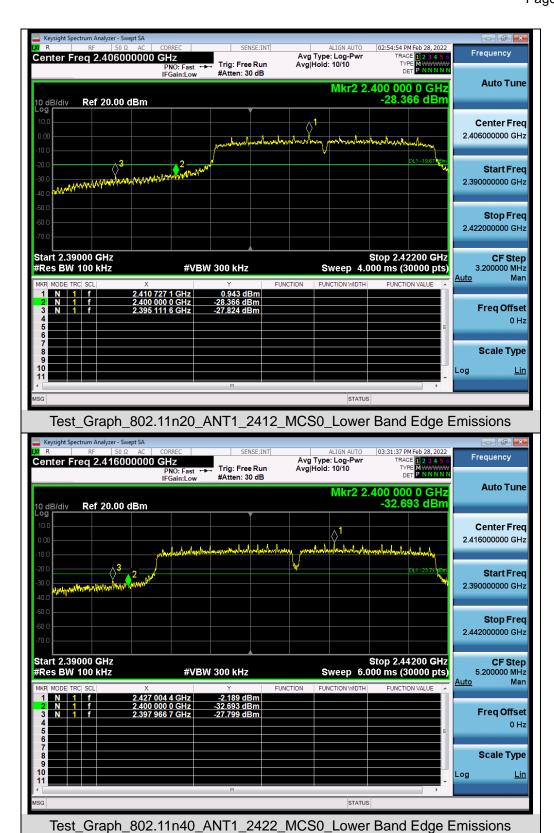


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Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions

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

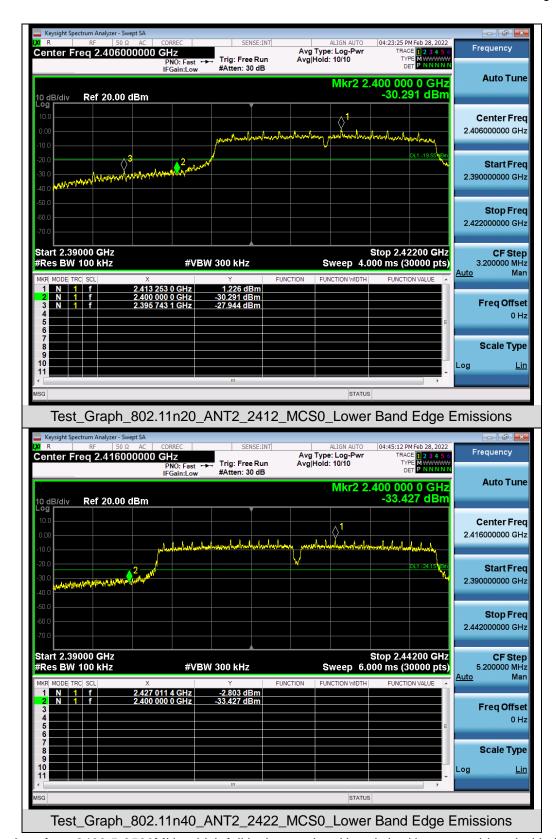












Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

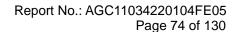
Refer to Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

10.4 LIMITS AND MEASUREMENT RESULT							
Test Data of Conducted Output Power Spectral Density-antenna 1							
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
802.11b	2412	0.105	-8.134	≪8	Pass		
	2437	0.321	-7.918	≤8	Pass		
	2462	-0.445	-8.684	≤8	Pass		
802.11g	2412	-3.966	-12.205	≪8	Pass		
	2437	-4.060	-12.299	≤8	Pass		
	2462	-5.101	-13.34	≪8	Pass		
802.11n20	2412	-5.463	-13.702	≤8	Pass		
	2437	-5.124	-13.363	≤8	Pass		
	2462	-4.875	-13.114	≪8	Pass		
802.11n40	2422	-8.320	-16.559	≪8	Pass		
	2437	-8.594	-16.833	≤8	Pass		
	2452	-7.681	-15.92	≤8	Pass		

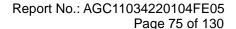




Test Data of Conducted Output Power Spectral Density-antenna 2							
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
802.11b	2412	-1.322	-9.561	≪8	Pass		
	2437	0.386	-7.853	≤8	Pass		
	2462	-1.022	-9.261	≪8	Pass		
802.11g	2412	-4.233	-12.472	≤8	Pass		
	2437	-4.382	-12.621	≤8	Pass		
	2462	-4.972	-13.211	≤8	Pass		
802.11n20	2412	-5.500	-13.739	≪8	Pass		
	2437	-5.478	-13.717	≪8	Pass		
	2462	-5.517	-13.756	≪8	Pass		
802.11n40	2422	-9.302	-17.541	≤8	Pass		
	2437	-9.775	-18.014	≪8	Pass		
	2452	-8.579	-16.818	≤8	Pass		

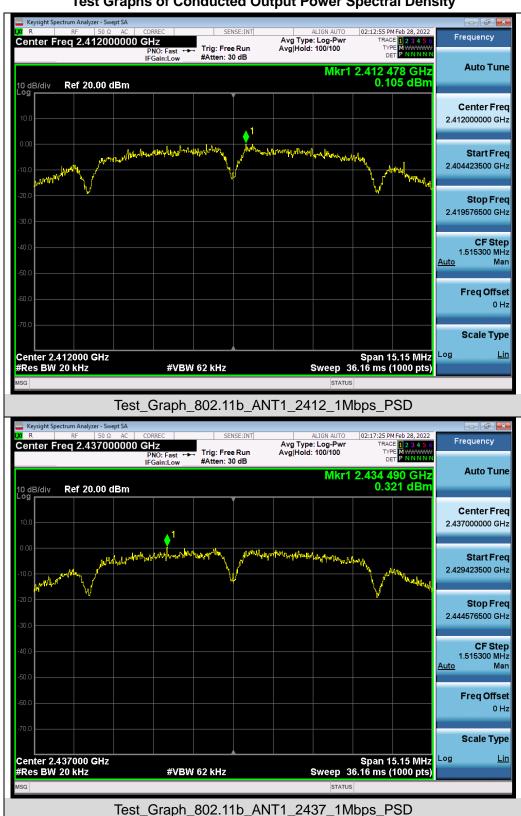
Test Data of Conducted Output Power Spectral Density-antenna 1+2							
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
802.11n20	2412	-2.47	-10.71	≪8	Pass		
	2437	-2.29	-10.53	≪8	Pass		
	2462	-2.17	-10.41	≪8	Pass		
802.11n40	2422	-5.77	-14.01	≪8	Pass		
	2437	-6.13	-14.37	≪8	Pass		
	2452	-5.10	-13.34	≤8	Pass		

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10*log(20/3).





Test Graphs of Conducted Output Power Spectral Density



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