

10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

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:

$$E = \frac{1000000}{3} \sqrt{30 P} \quad \mu\text{V/m, where P is the eirp (Watts).$$

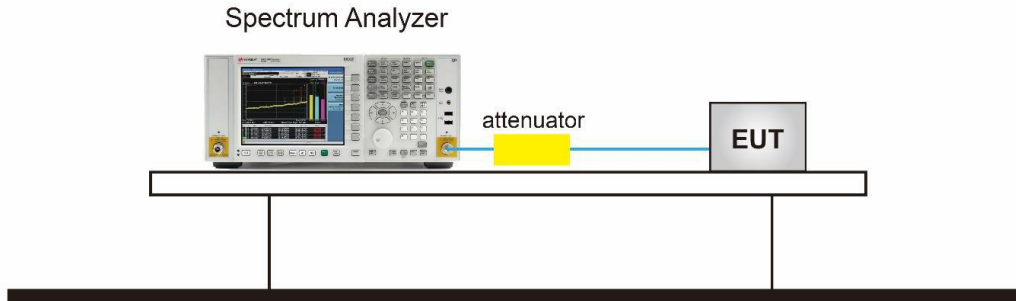
Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below 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 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.
3. RBW = 1MHz; VBW= 3MHz; Sweep = auto; Detector function = Peak. (Test frequency below 1GHz)
4. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = Peak. (Test frequency Above 1GHz)
5. Set SPA Trace 1 Max hold, then View.
6. Antenna gain and path loss have been compensated to the Correction factor.
7. Mark the maximum useless stray point and compare it with the limit value to record the result.

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10.3 Measurement Setup (Block Diagram of Configuration)

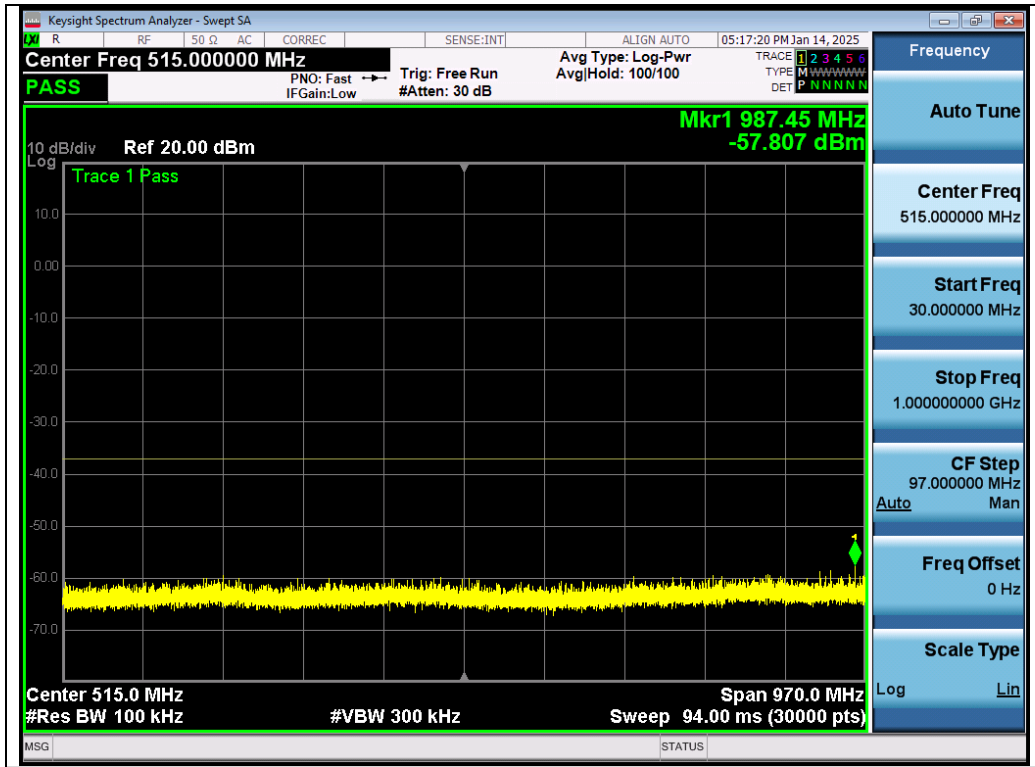


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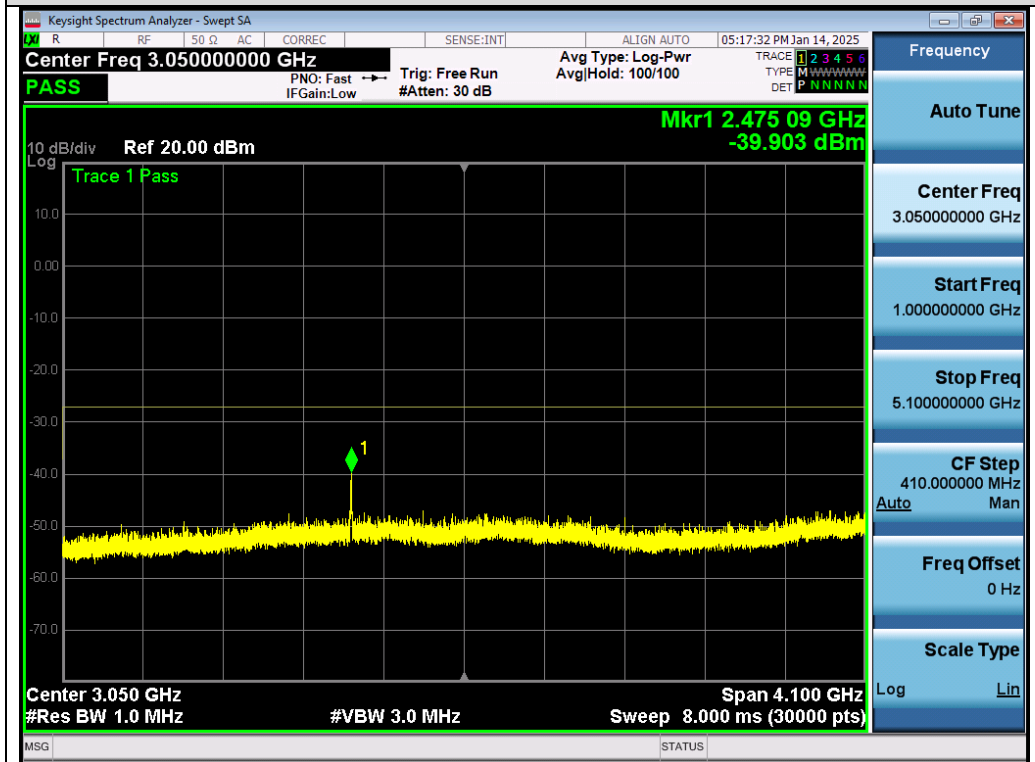
Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>

10.4 Measurement Results

Test Graphs of Spurious Emissions outside of the 5.15-5.25 GHz band

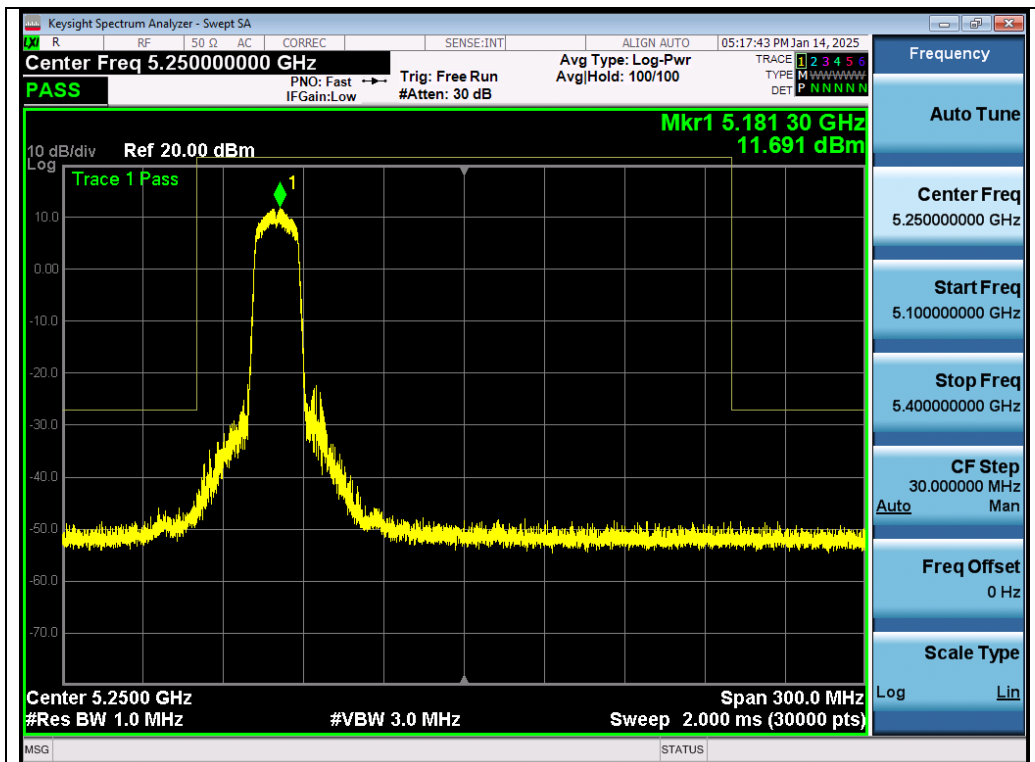


Test_Graph_802.11a_Chain A_5180_6Mbps_Frequency Band 1

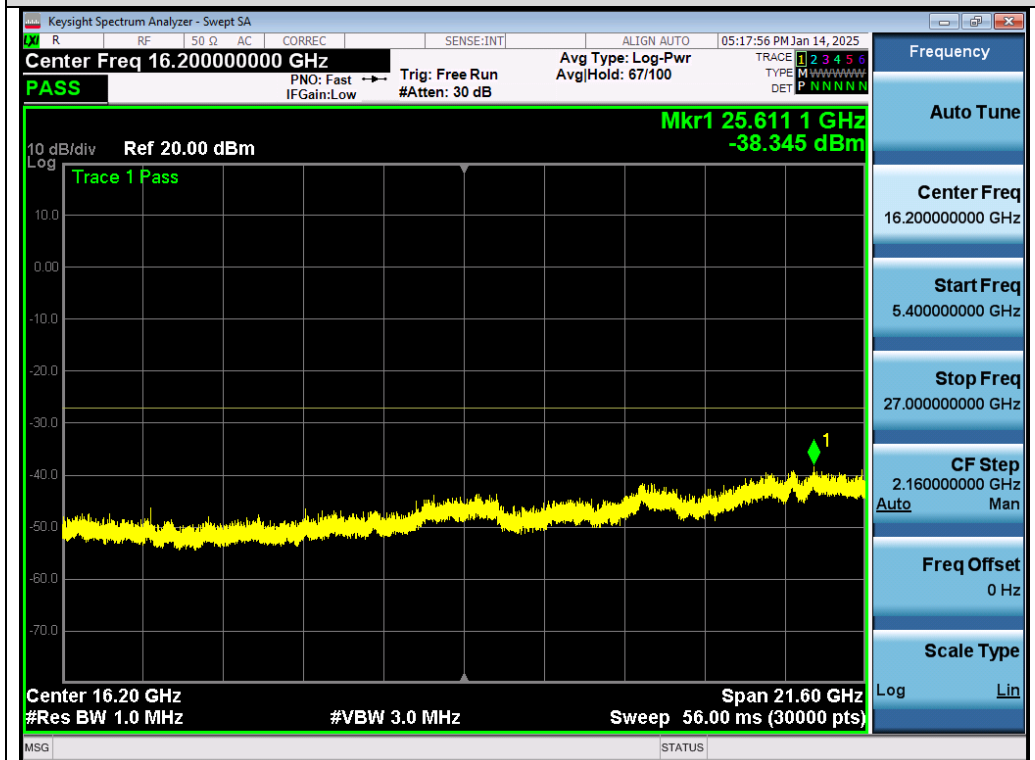


Test_Graph_802.11a_Chain A_5180_6Mbps_Frequency Band 2

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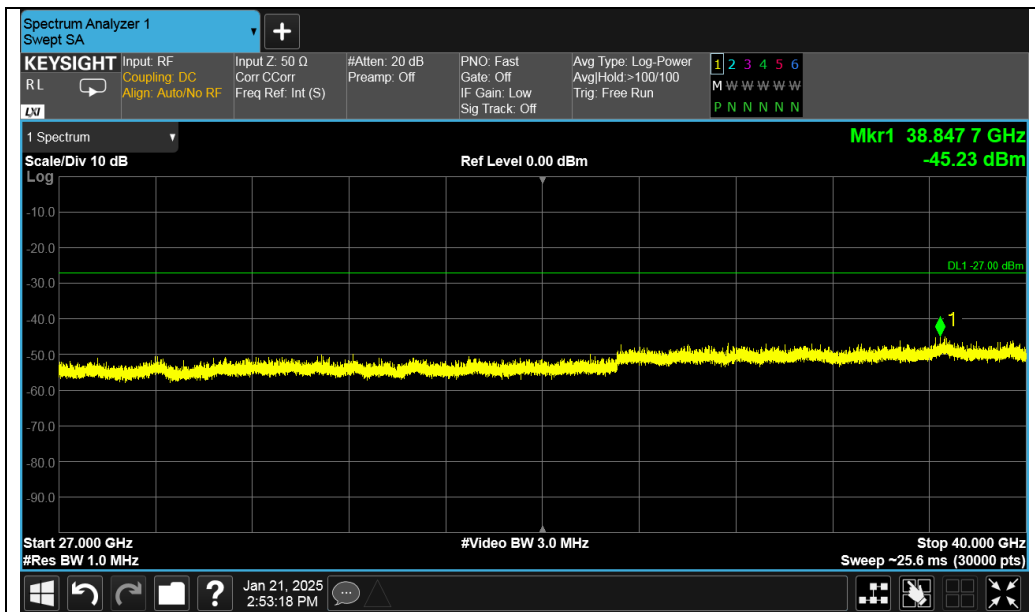


Test_Graph_802.11a_Chain A_5180_6Mbps_Frequency Band 3

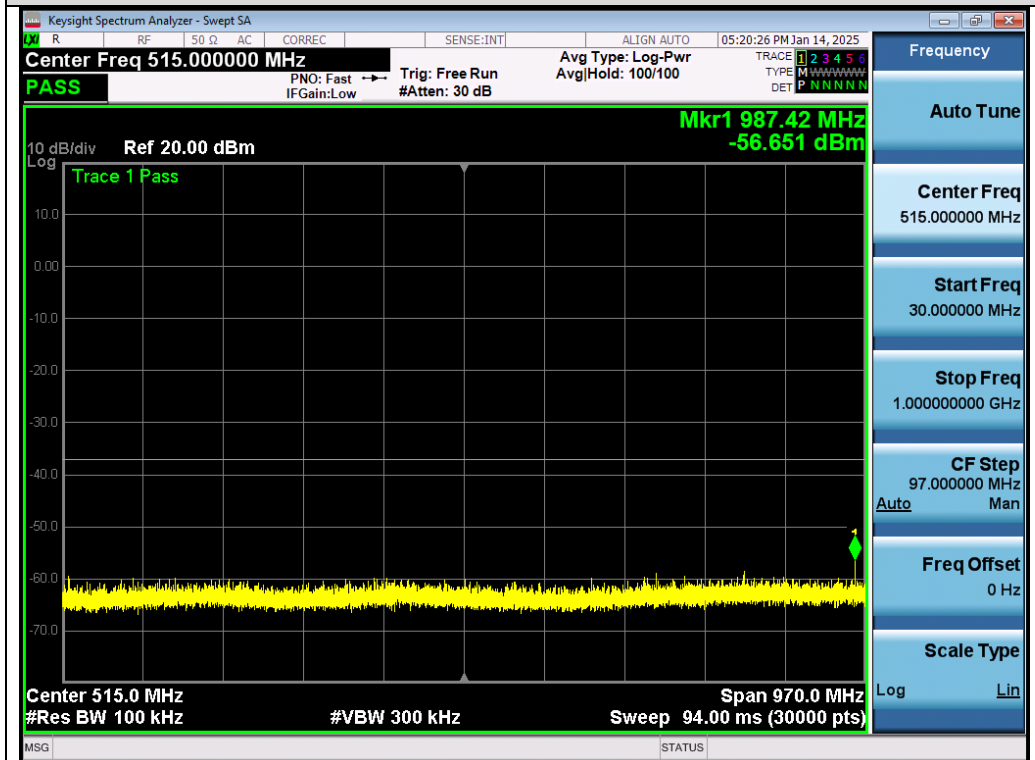


Test_Graph_802.11a_Chain A_5180_6Mbps_Frequency Band 4

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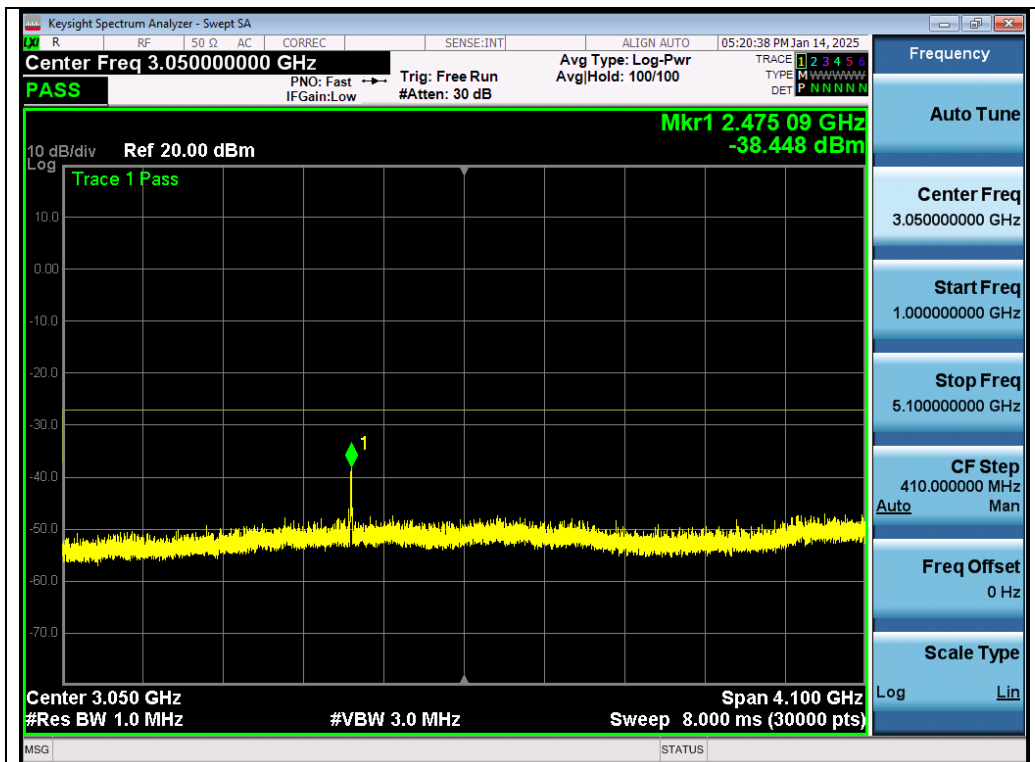


Test_Graph_802.11a_Chain A_5180_6Mbps_Frequency Band 5

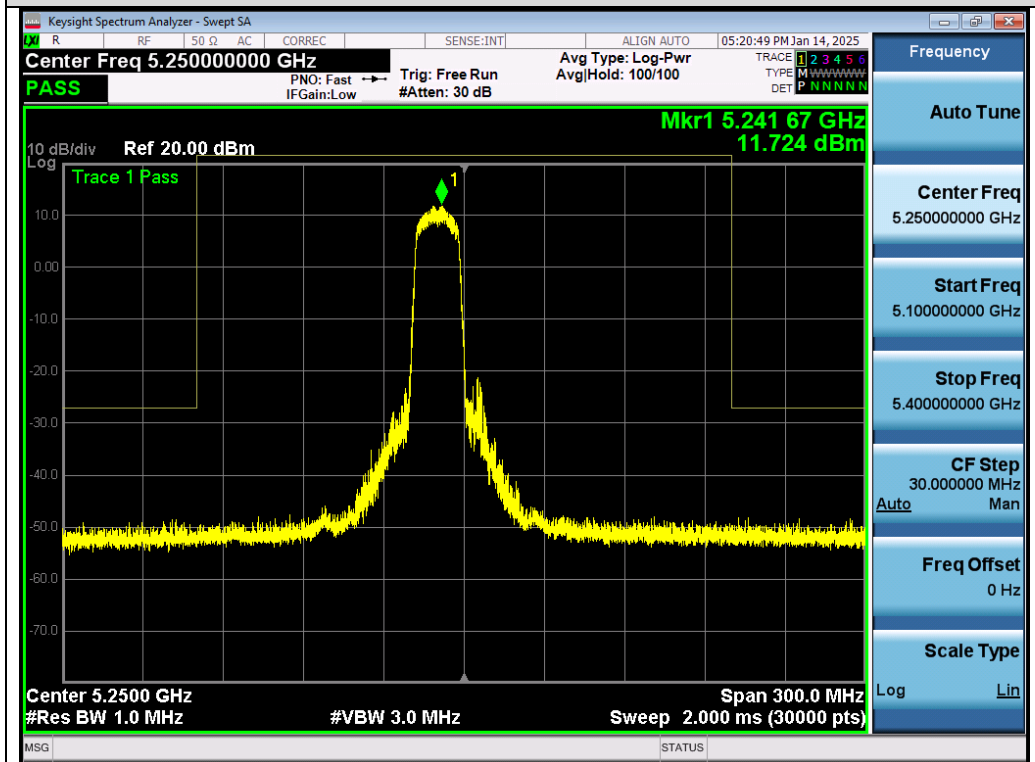


Test_Graph_802.11a_Chain A_5240_6Mbps_Frequency Band 1

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Test_Graph_802.11a_Chain A_5240_6Mbps_Frequency Band 2

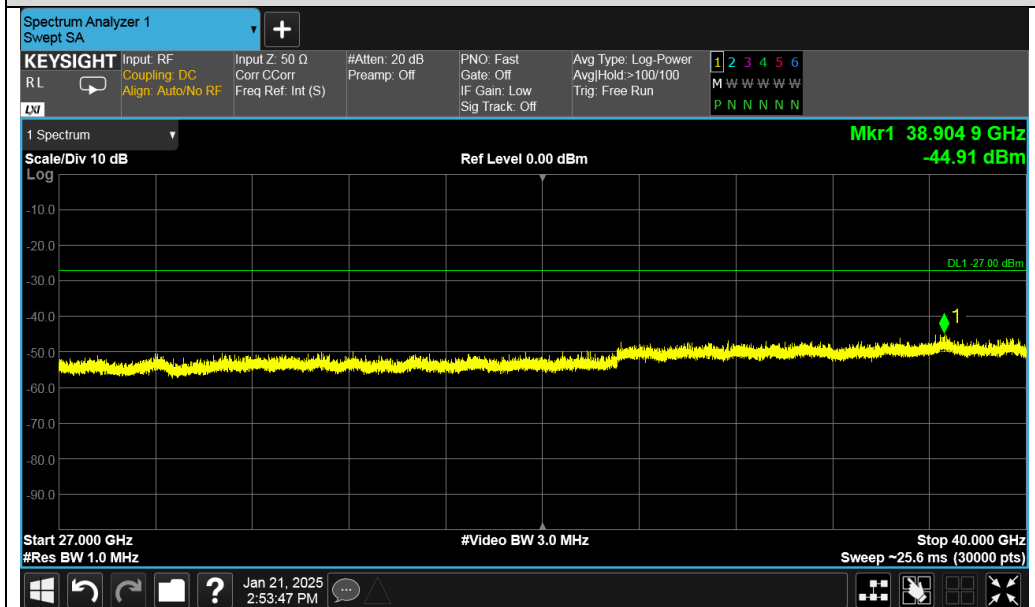


Test_Graph_802.11a_Chain A_5240_6Mbps_Frequency Band 3

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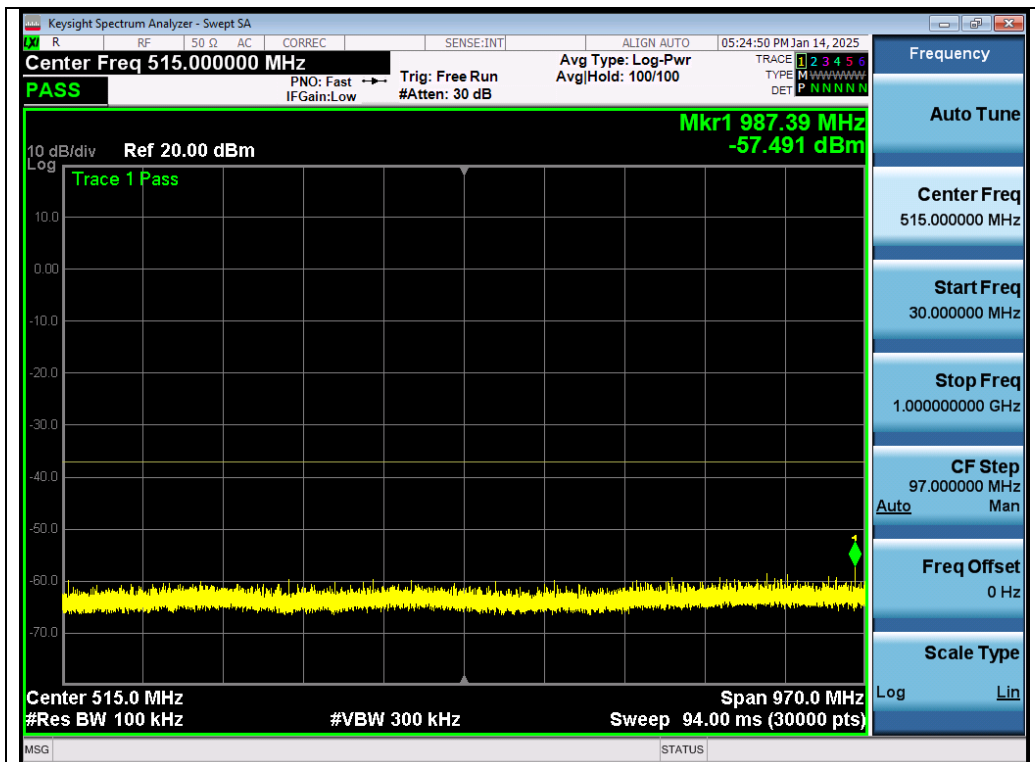


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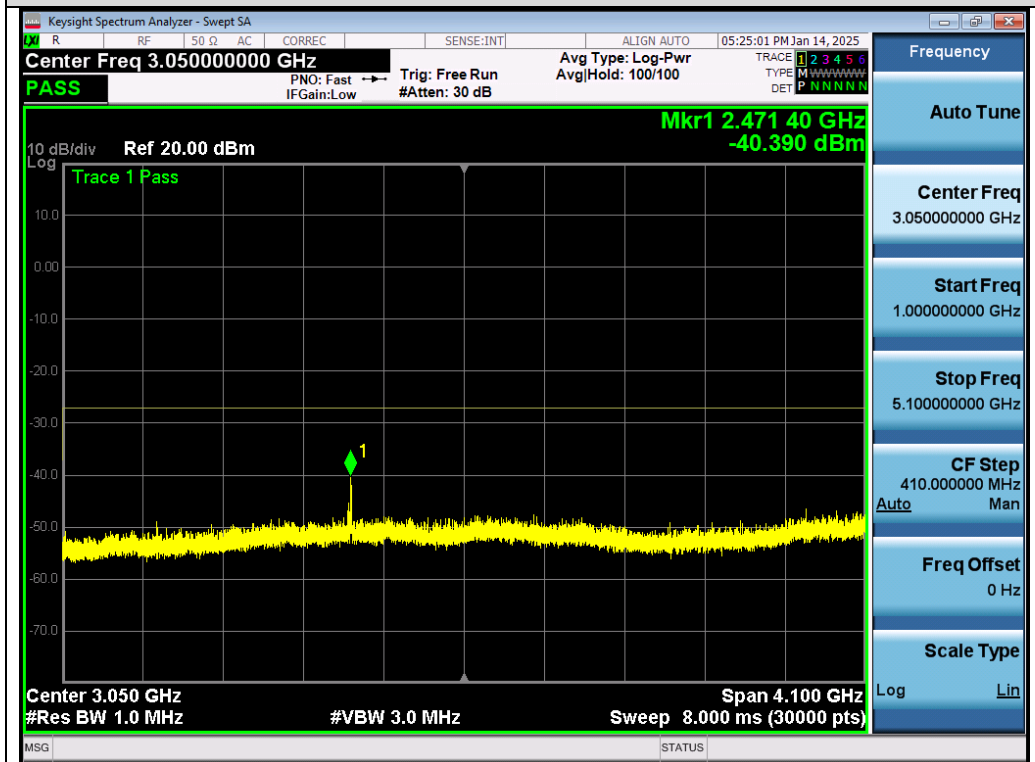


Test_Graph_802.11a_Chain A_5240_6Mbps_Frequency Band 5

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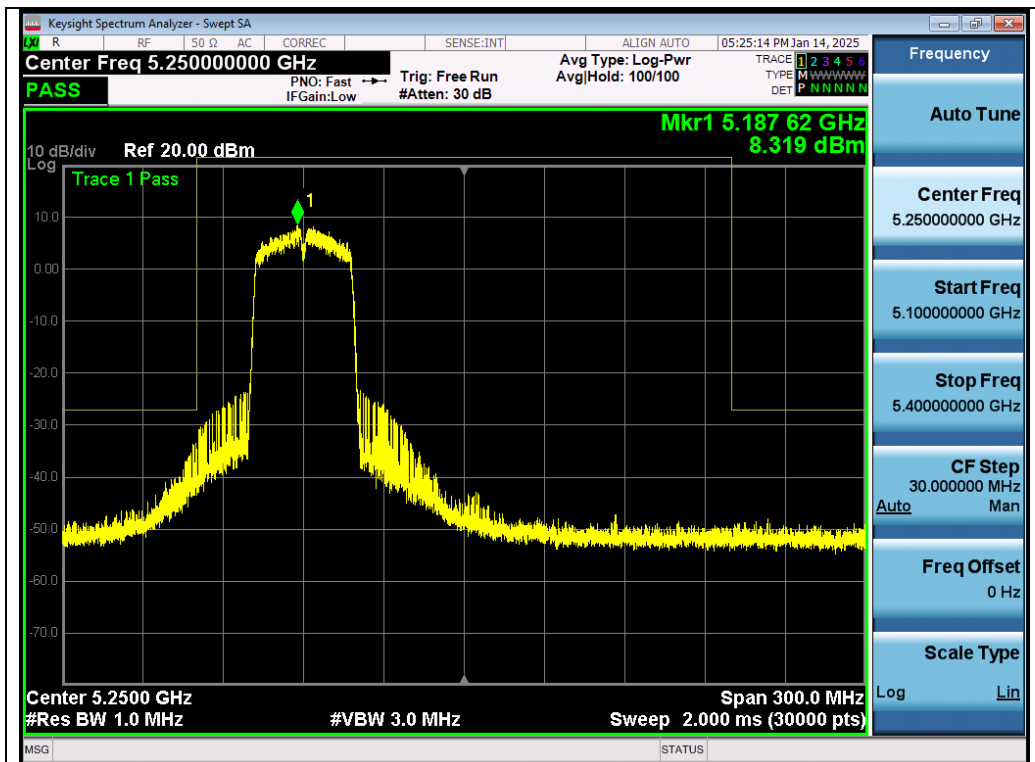


Test_Graph_802.11n40_Chain A_5190_MCS0_Frequency Band 1

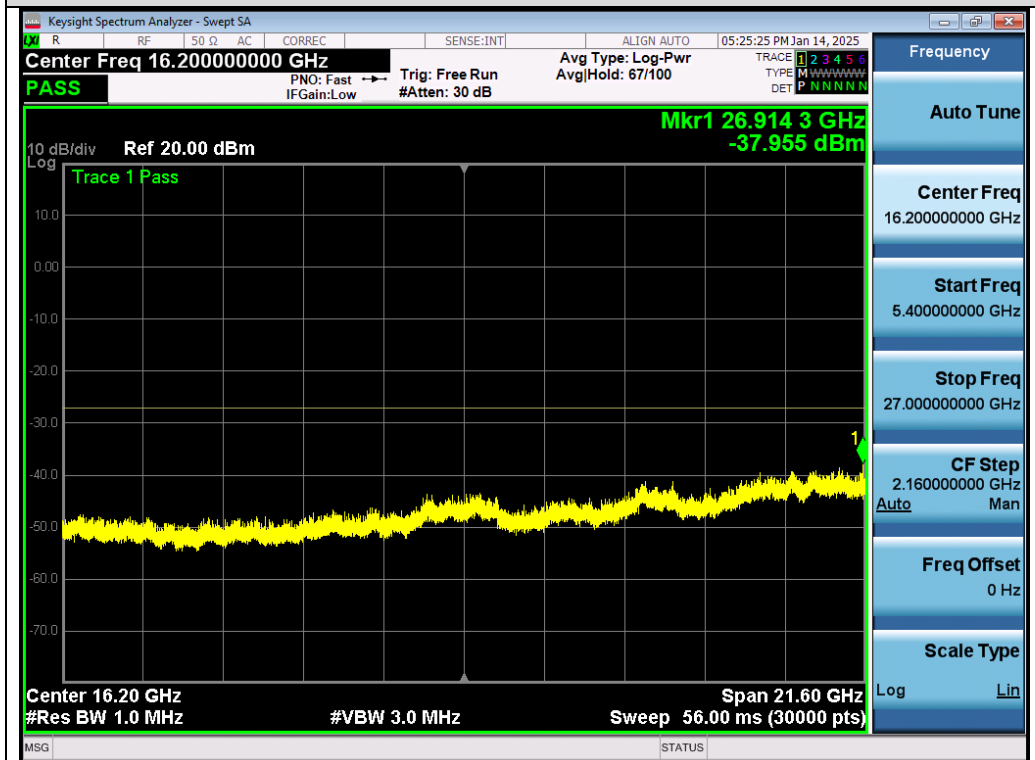


Test_Graph_802.11n40_Chain A_5190_MCS0_Frequency Band 2

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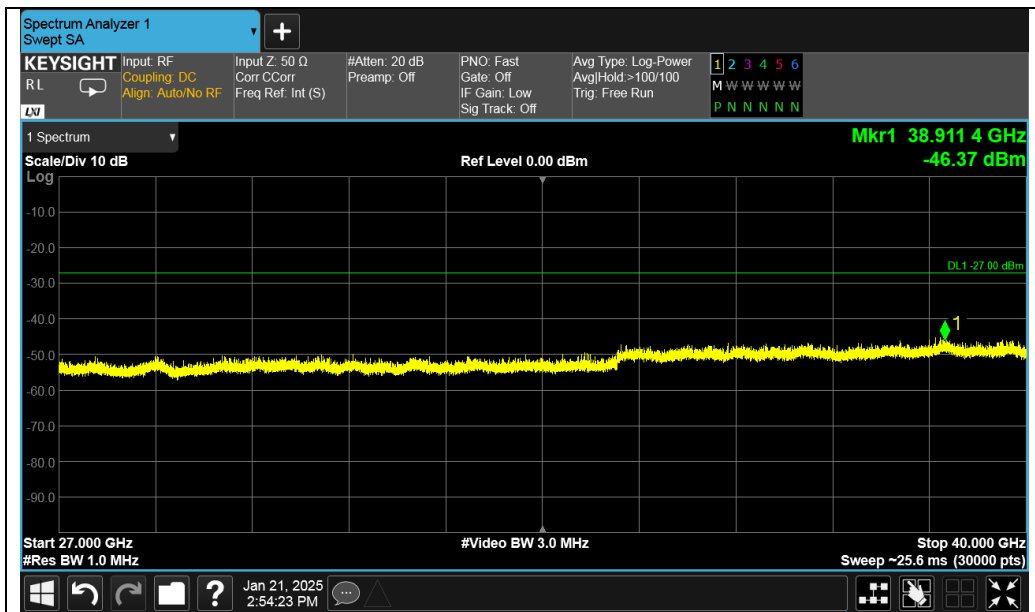


Test_Graph_802.11n40_Chain A_5190_MCS0_Frequency Band 3

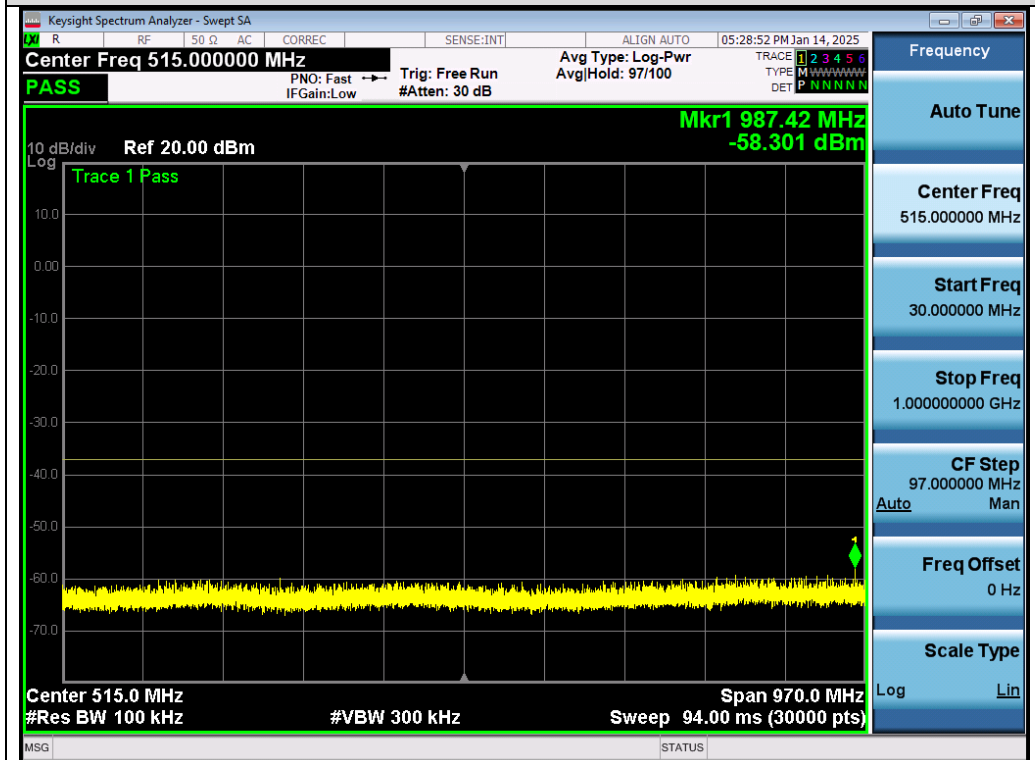


Test_Graph_802.11n40_Chain A_5190_MCS0_Frequency Band 4

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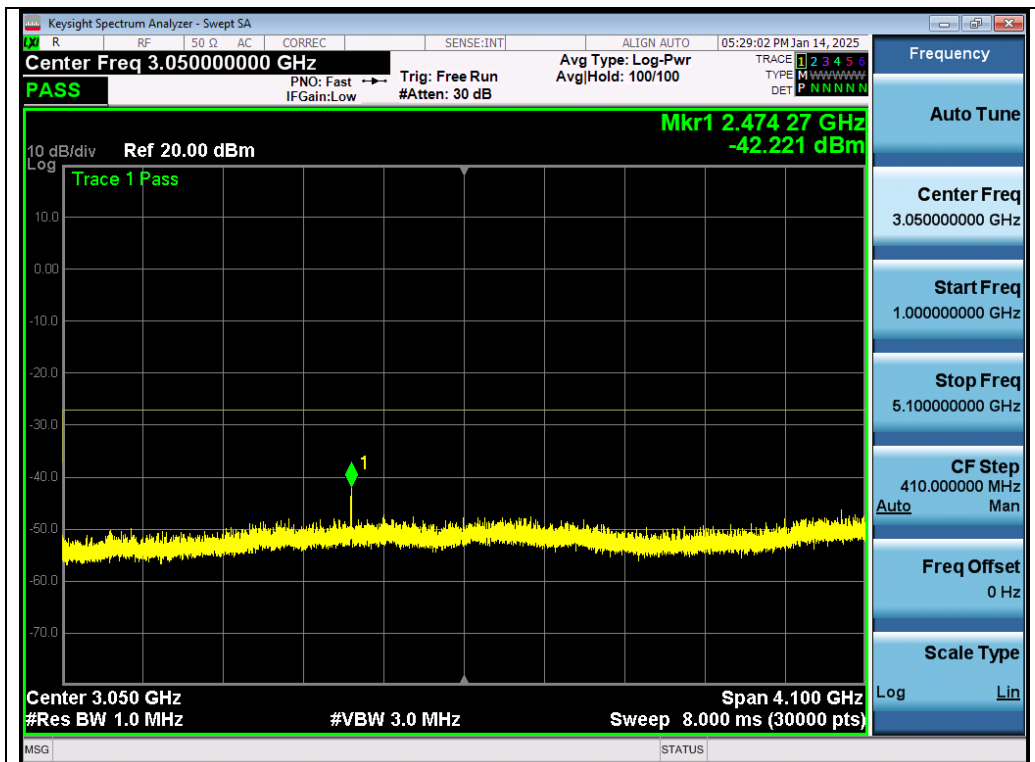


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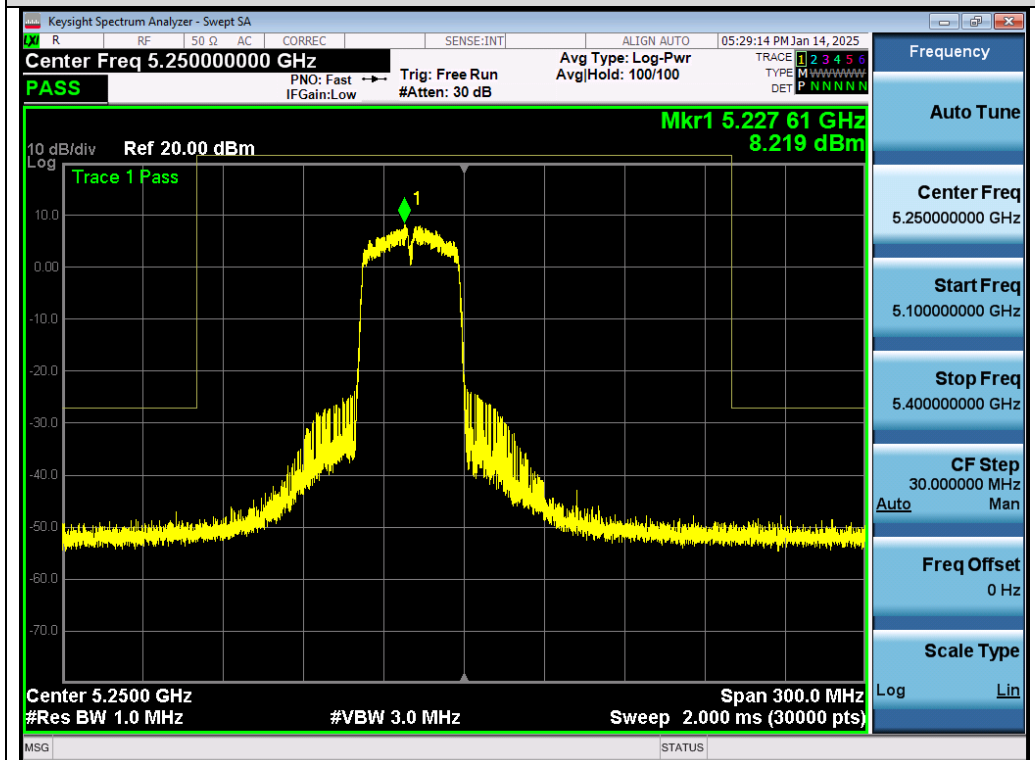


Test_Graph_802.11n40_Chain A_5230_MCS0_Frequency Band 1

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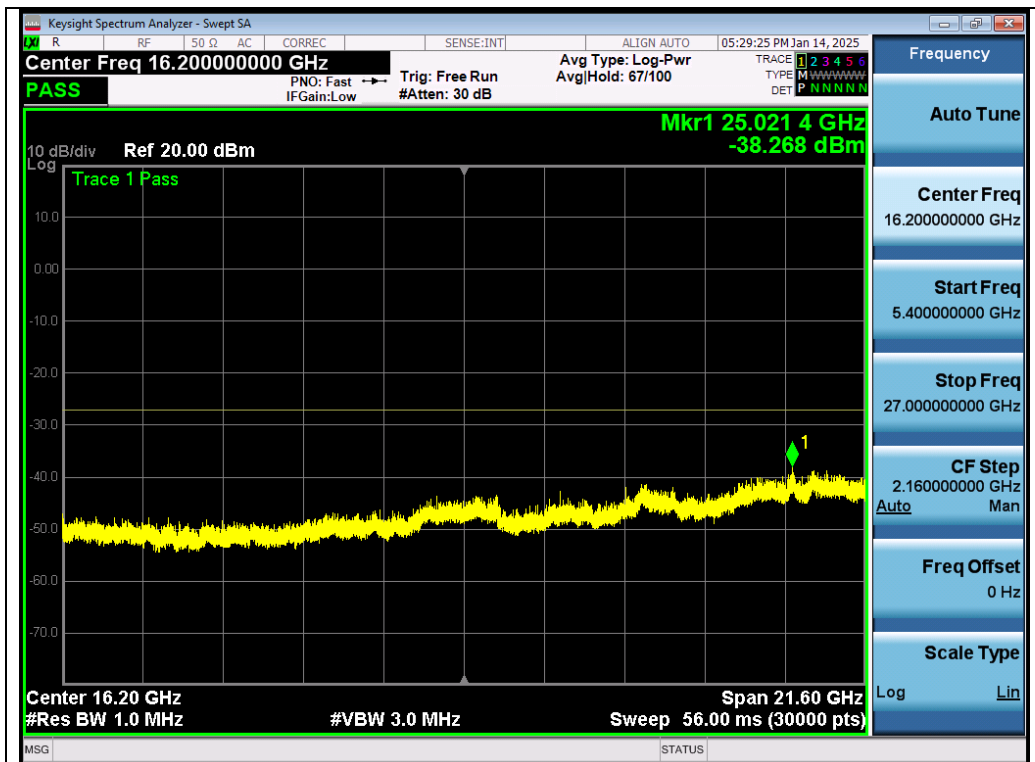


Test_Graph_802.11n40_Chain A_5230_MCS0_Frequency Band 2

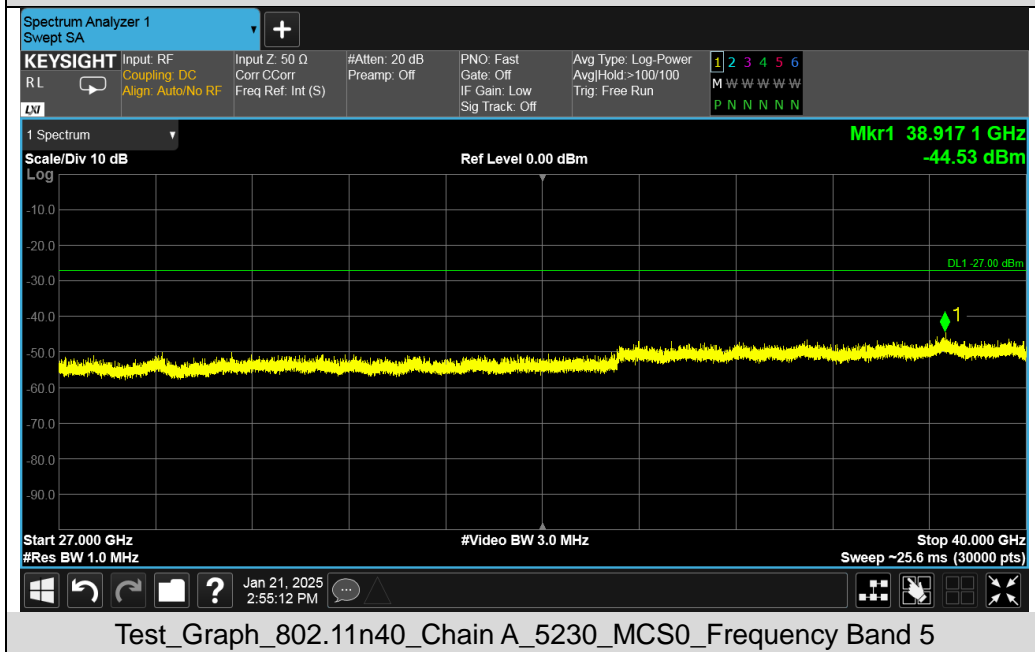


Test_Graph_802.11n40_Chain A_5230_MCS0_Frequency Band 3

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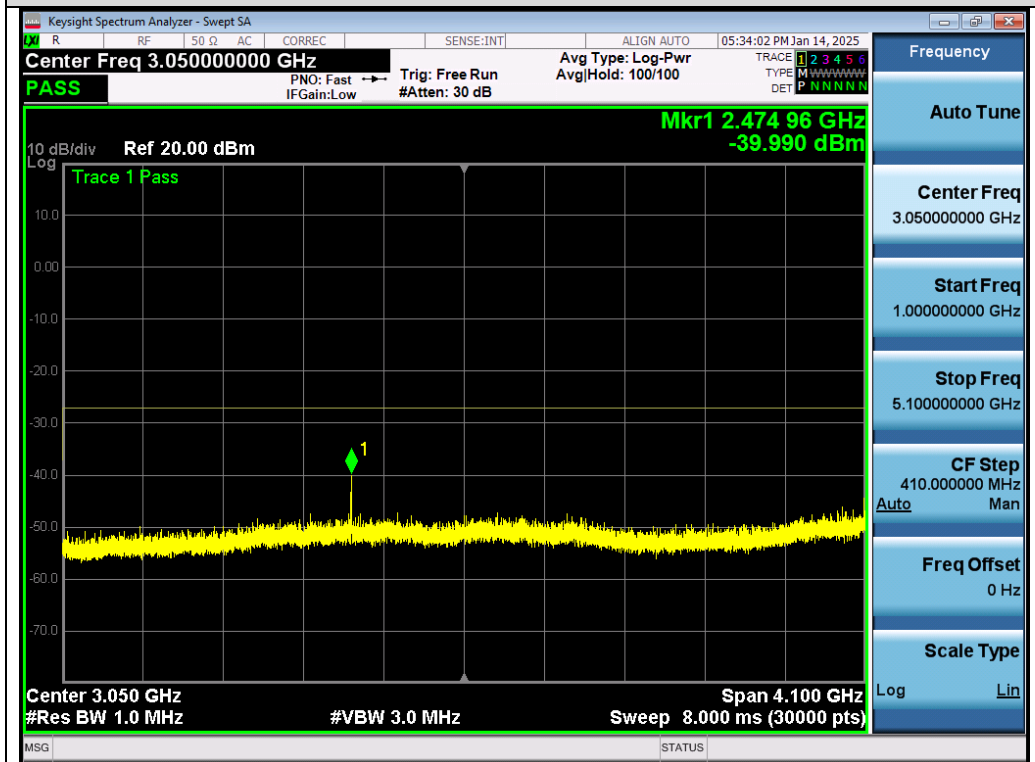
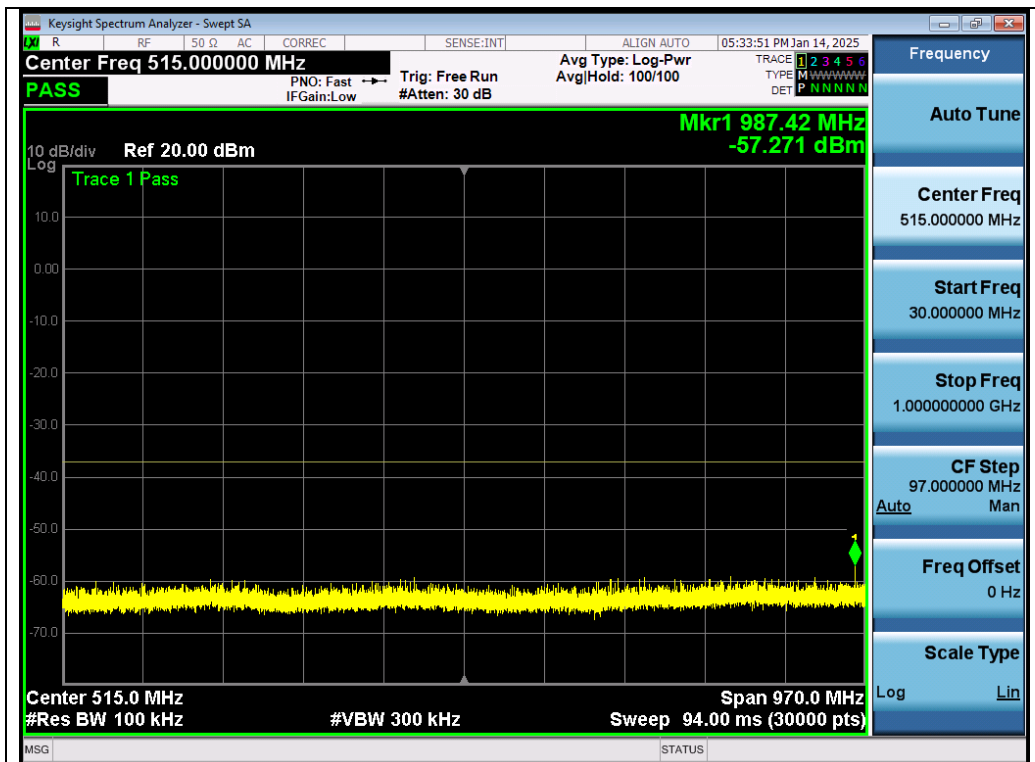


Test_Graph_802.11n40_Chain A_5230_MCS0_Frequency Band 4



Test_Graph_802.11n40_Chain A_5230_MCS0_Frequency Band 5

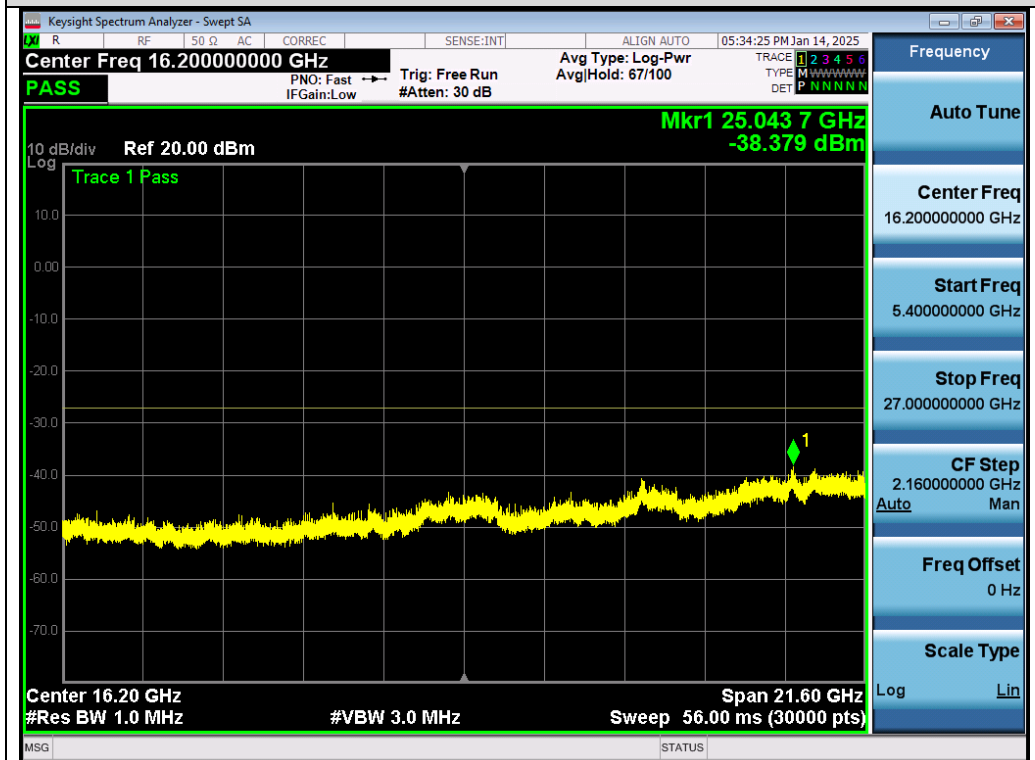
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Test_Graph_802.11ac80_Chain A_5210_MCS0_Frequency Band 3

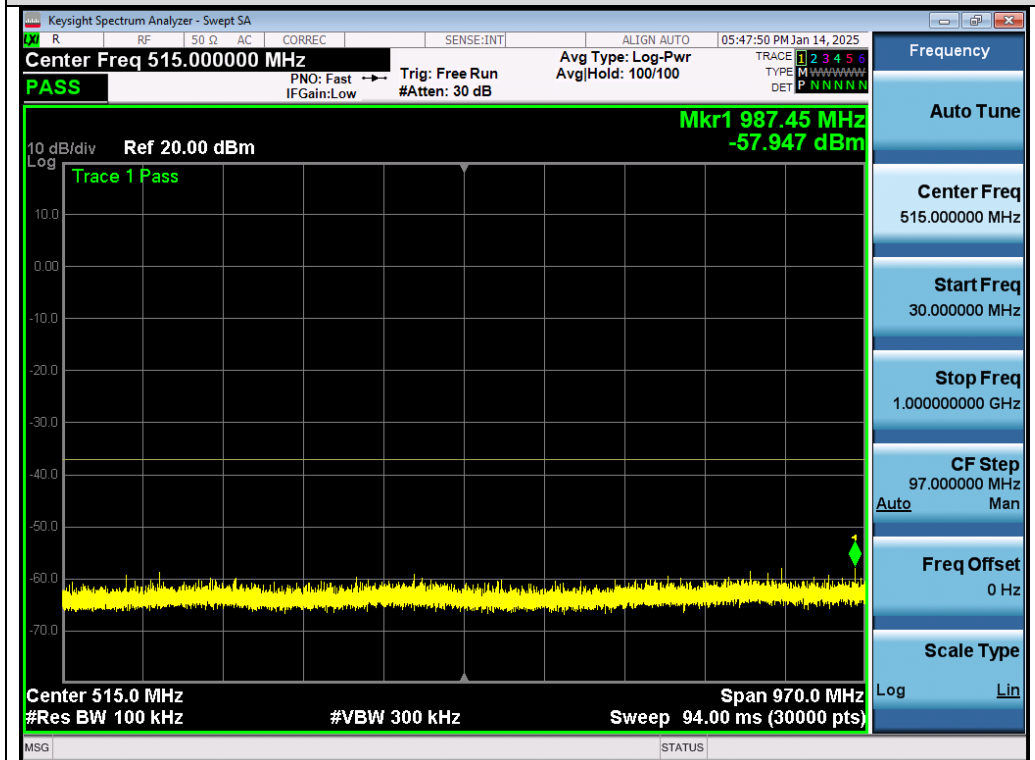


Test_Graph_802.11ac80_Chain A_5210_MCS0_Frequency Band 4

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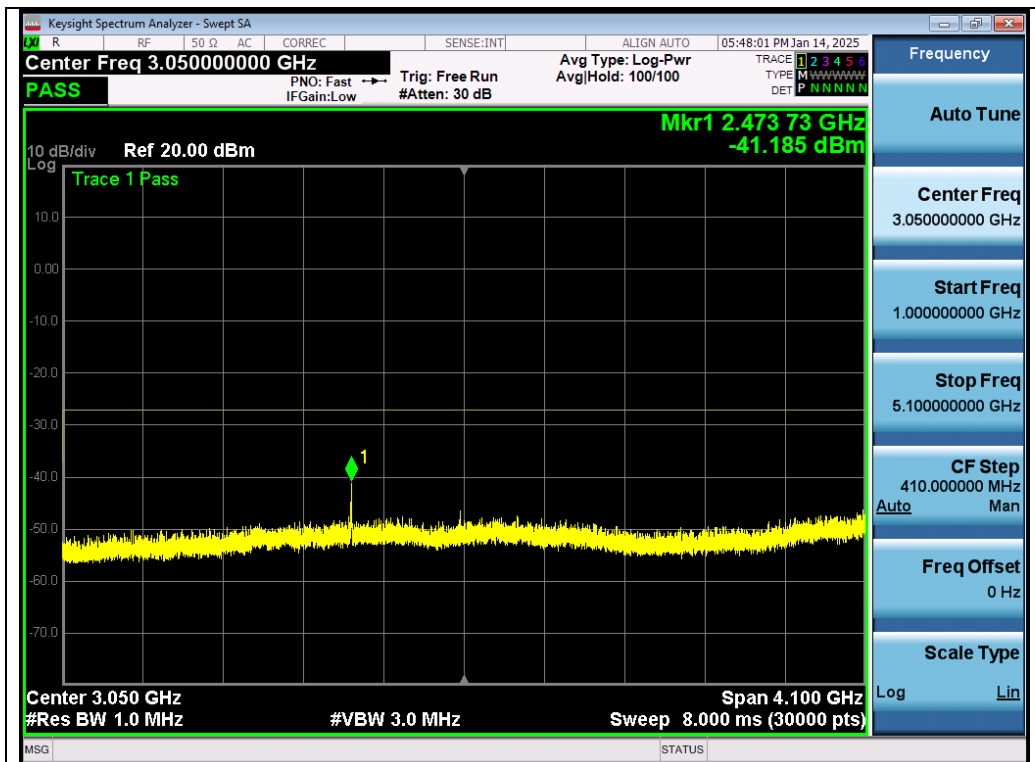


Test_Graph_802.11ac80_Chain A_5210_MCS0_Frequency Band 5



Test_Graph_802.11ax80_Chain A_5210_MCS0_Frequency Band 1

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Test_Graph_802.11ax80_Chain A_5210_MCS0_Frequency Band 2

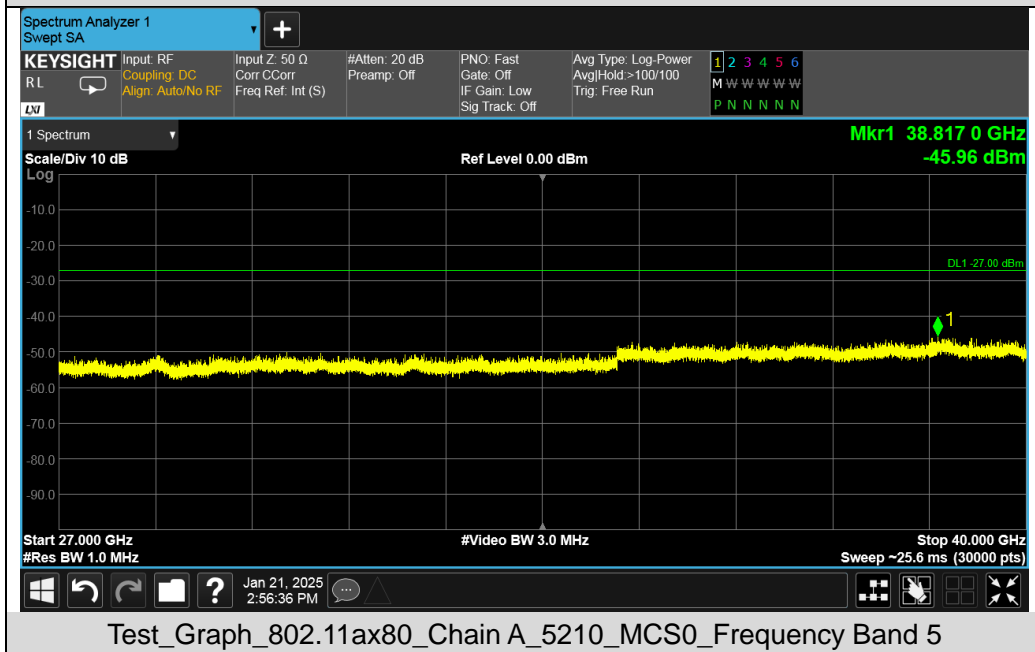


Test_Graph_802.11ax80_Chain A_5210_MCS0_Frequency Band 3

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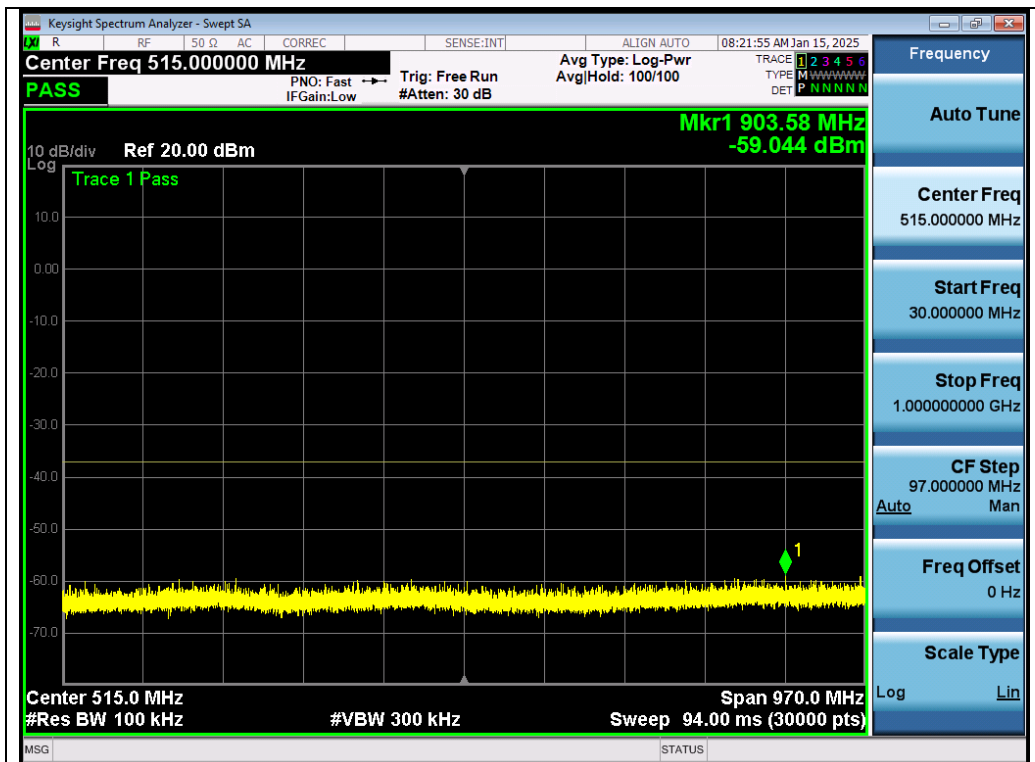
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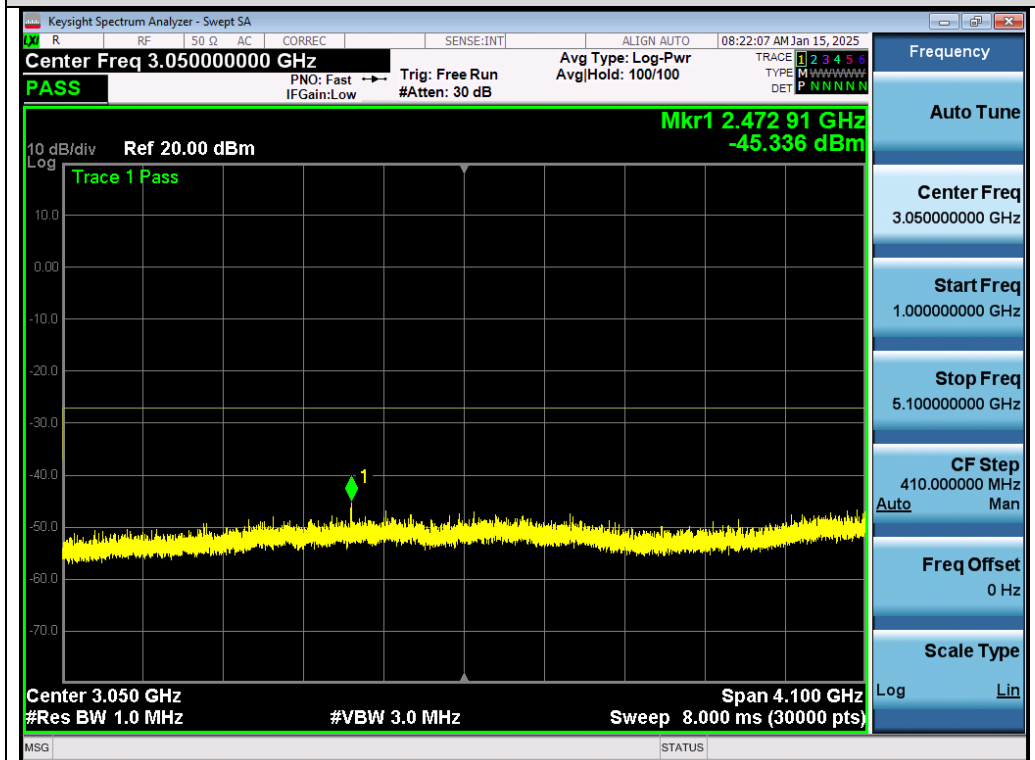
Test_Graph_802.11ax80_Chain A_5210_MCS0_Frequency Band 5

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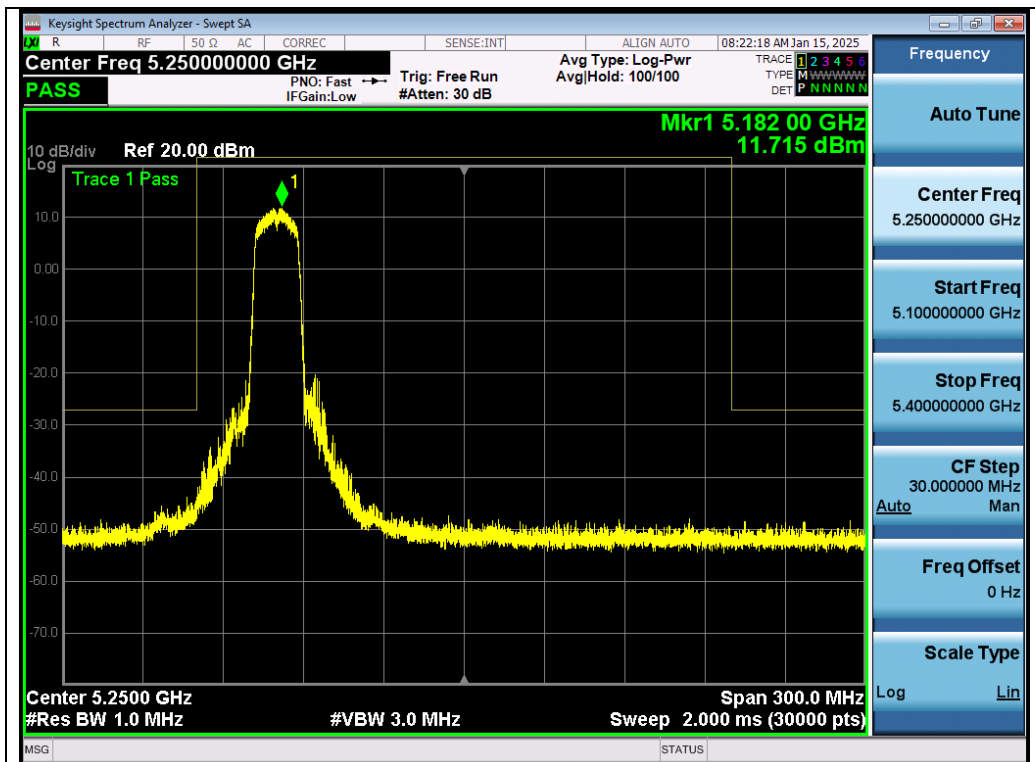


Test_Graph_802.11a_Chain B_5180_6Mbps_Frequency Band 1

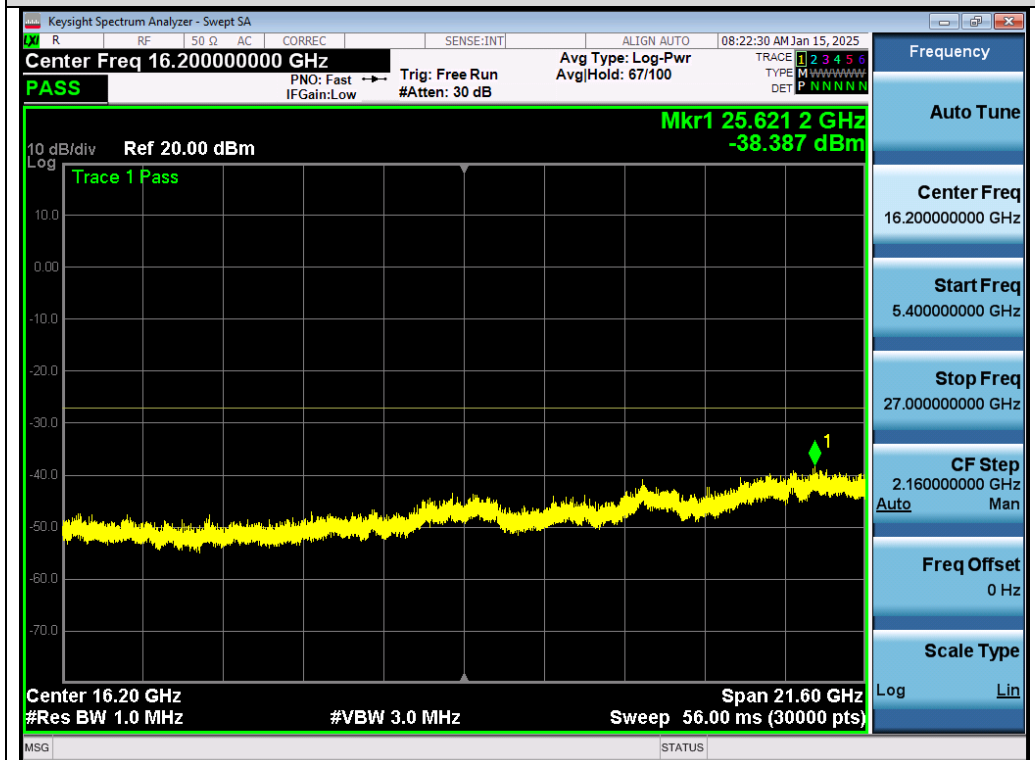


Test_Graph_802.11a_Chain B_5180_6Mbps_Frequency Band 2

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Test_Graph_802.11a_Chain B_5180_6Mbps_Frequency Band 3

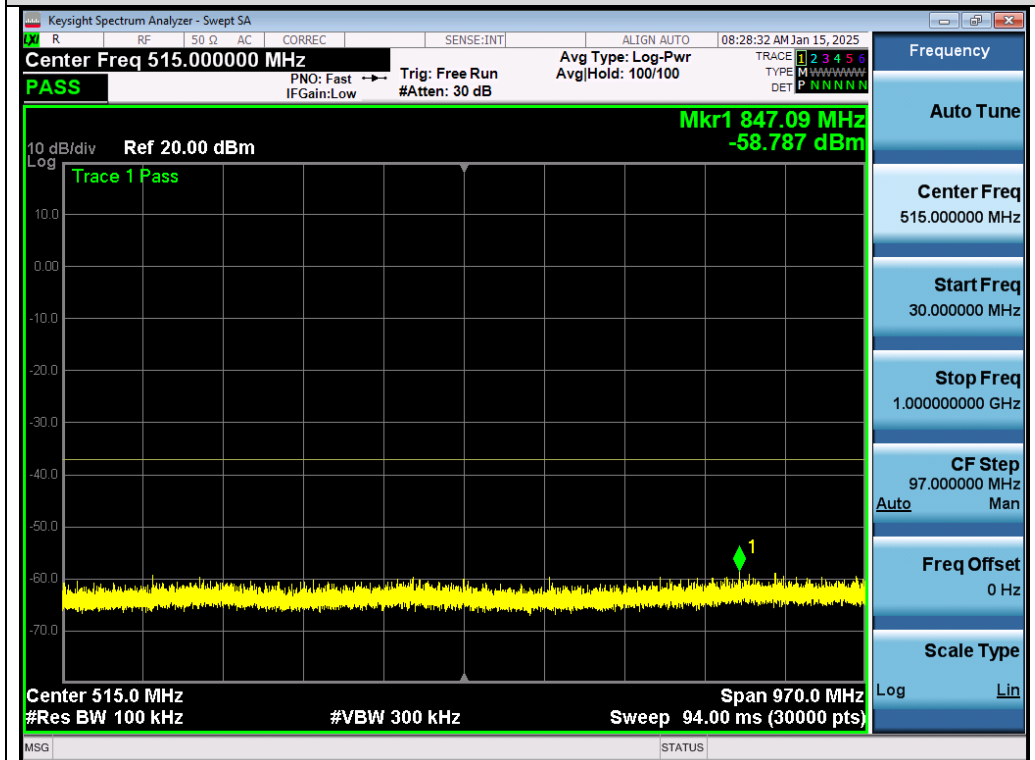


Test_Graph_802.11a_Chain B_5180_6Mbps_Frequency Band 4

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Test_Graph_802.11a_Chain B_5180_6Mbps_Frequency Band 5

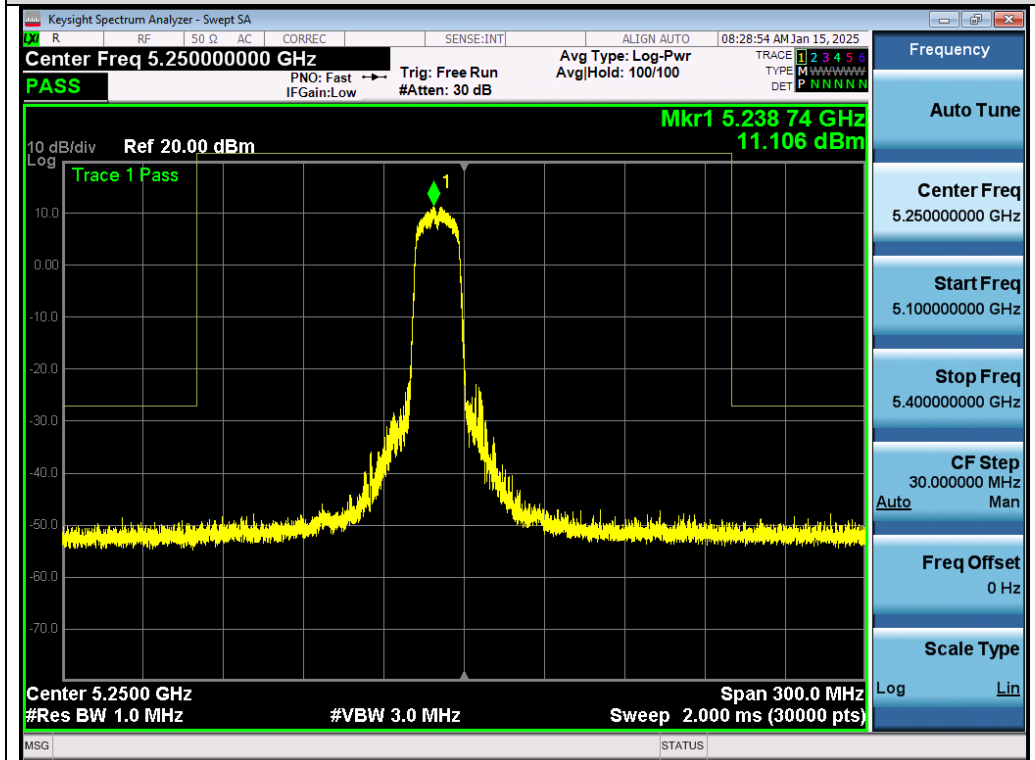


Test_Graph_802.11a_Chain B_5240_6Mbps_Frequency Band 1

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Test_Graph_802.11a_Chain B_5240_6Mbps_Frequency Band 2

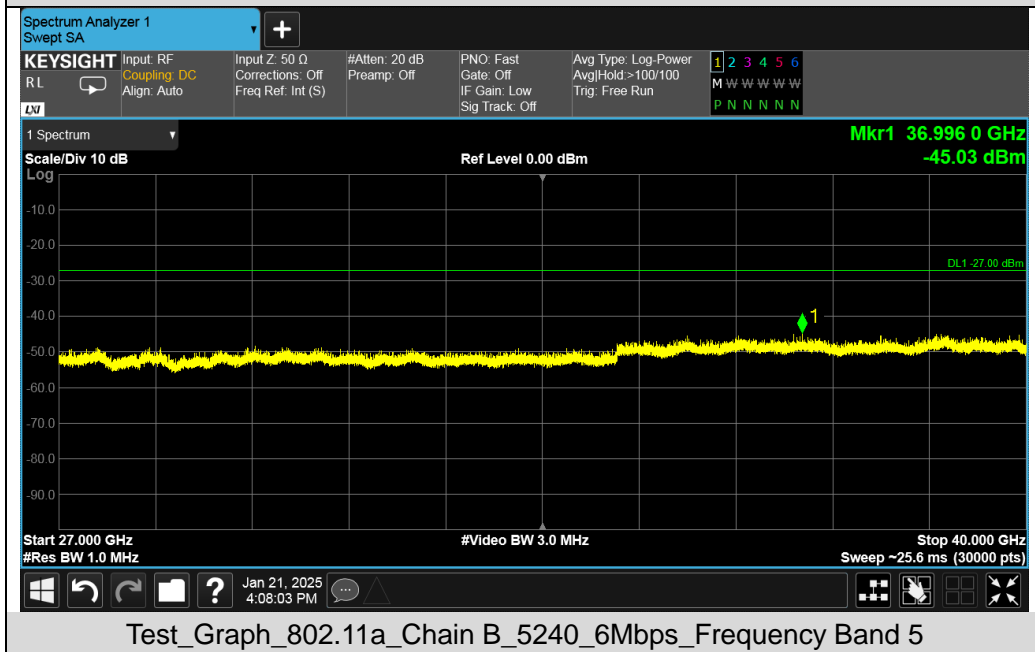


Test_Graph_802.11a_Chain B_5240_6Mbps_Frequency Band 3

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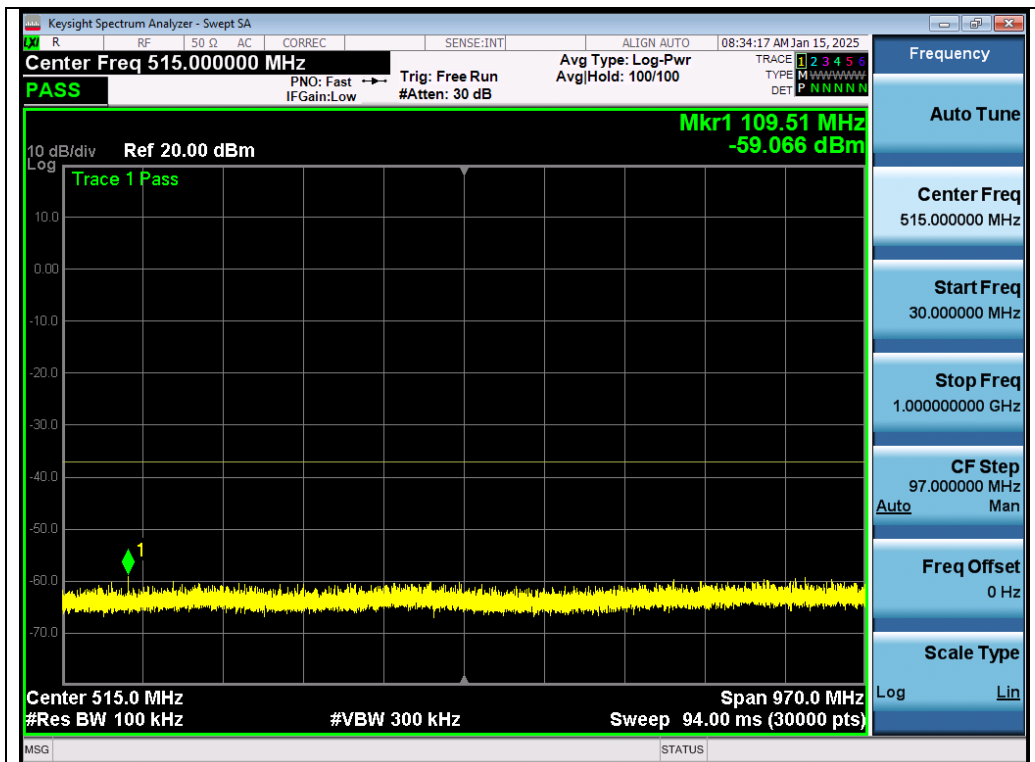


Test_Graph_802.11a_Chain B_5240_6Mbps_Frequency Band 4

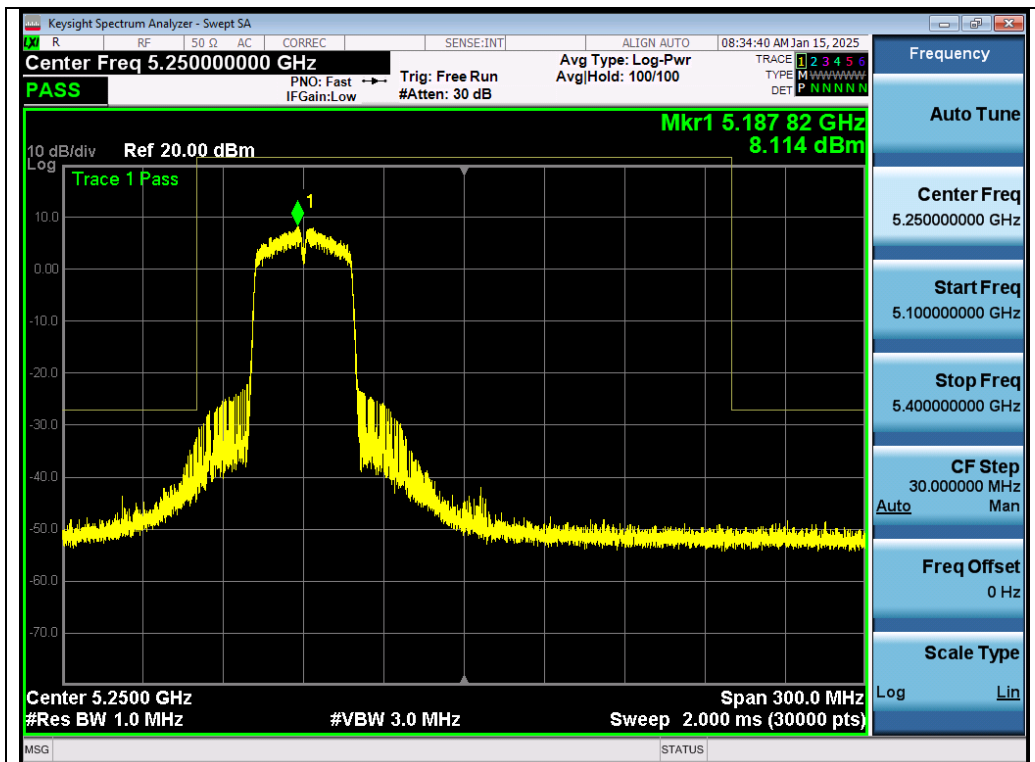


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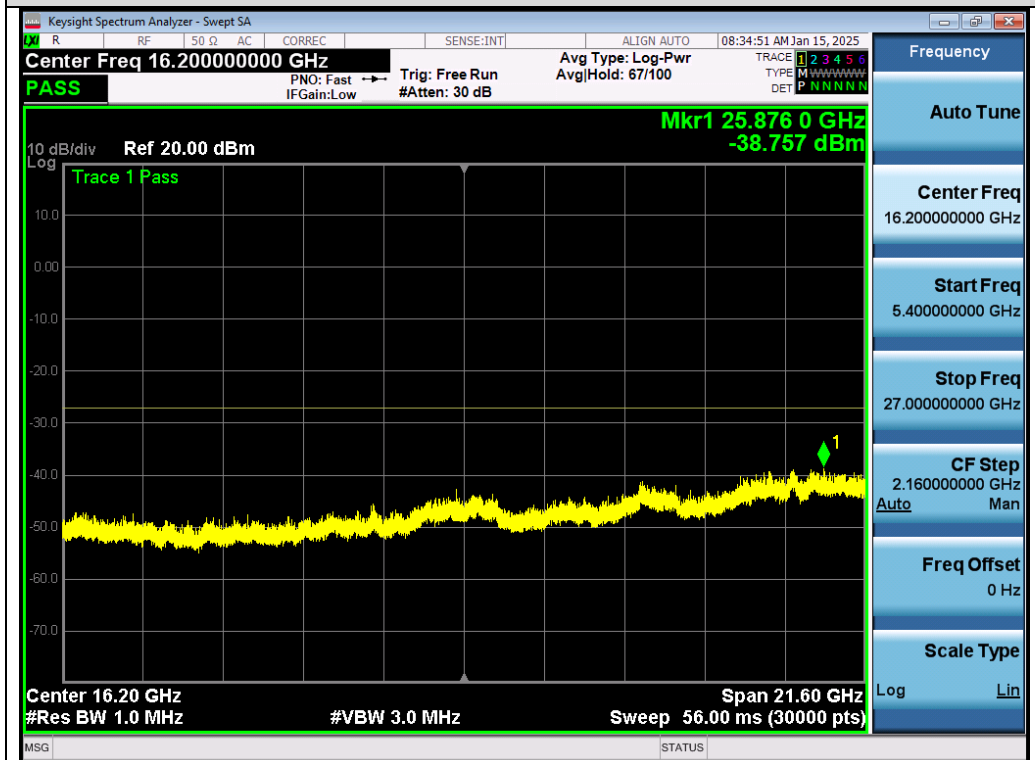
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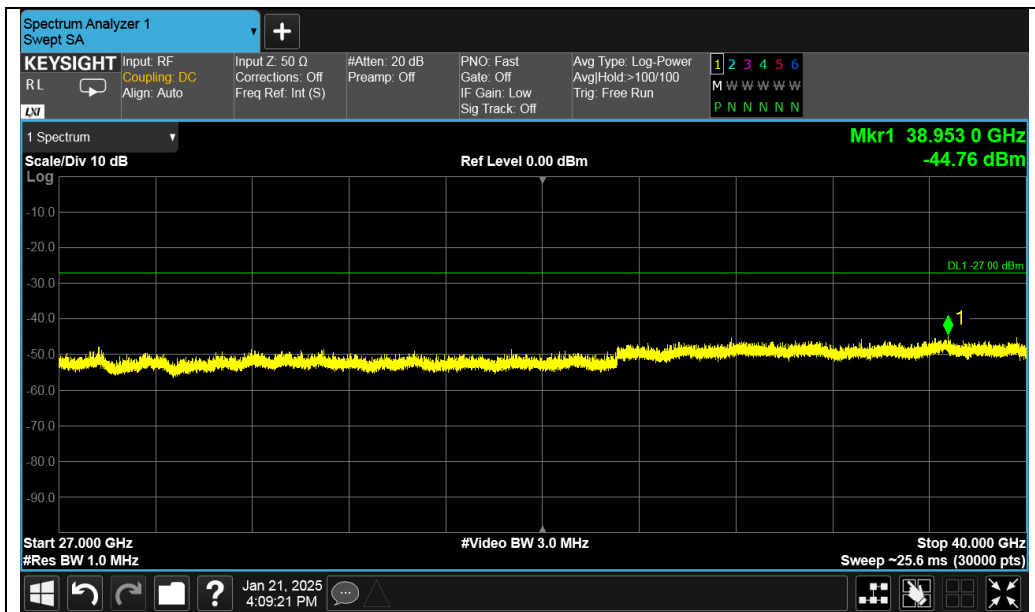


Test_Graph_802.11n40_Chain B_5190_MCS0_Frequency Band 3

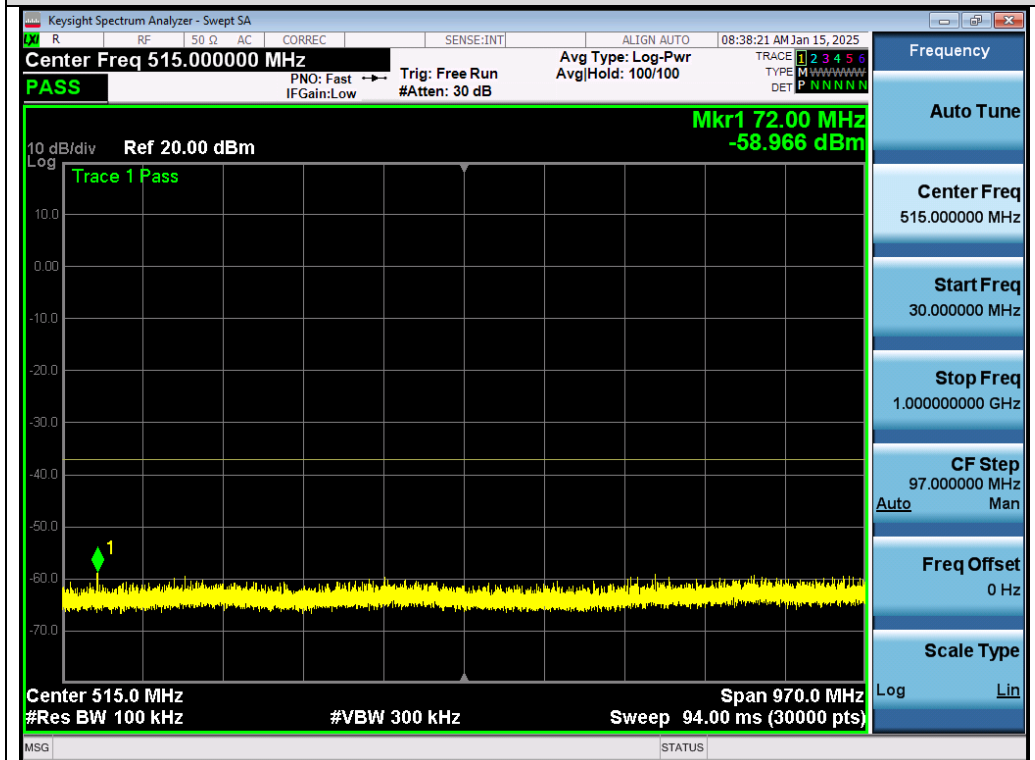


Test_Graph_802.11n40_Chain B_5190_MCS0_Frequency Band 4

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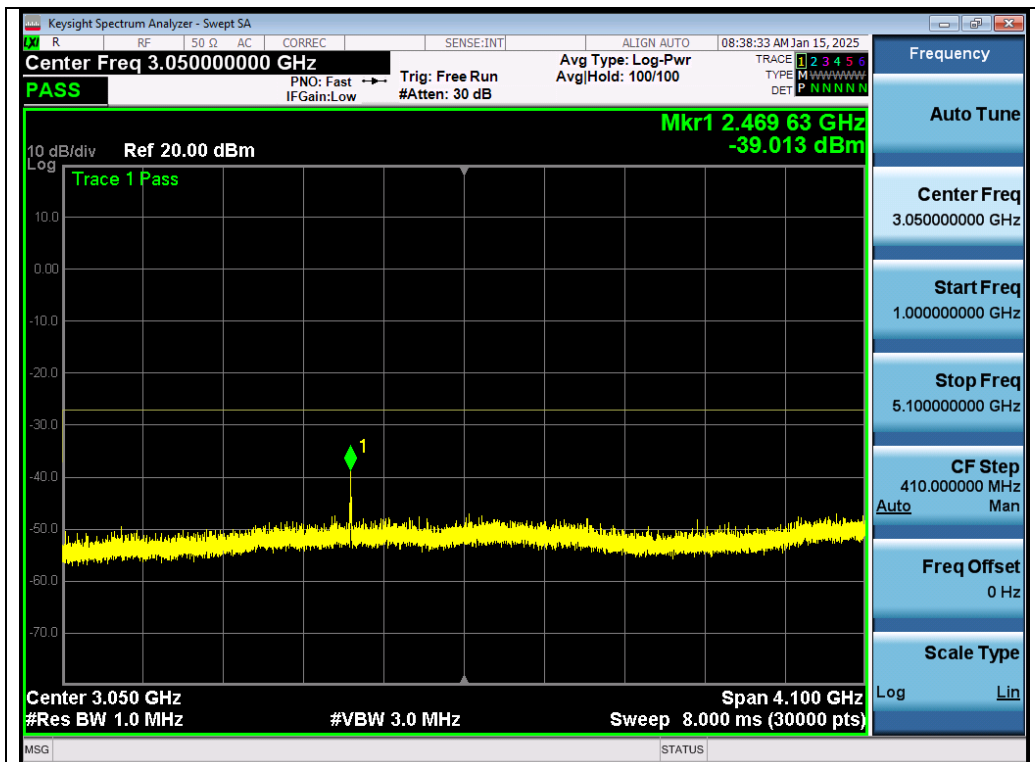
Test_Graph_802.11n40_Chain B_5190_MCS0_Frequency Band 5



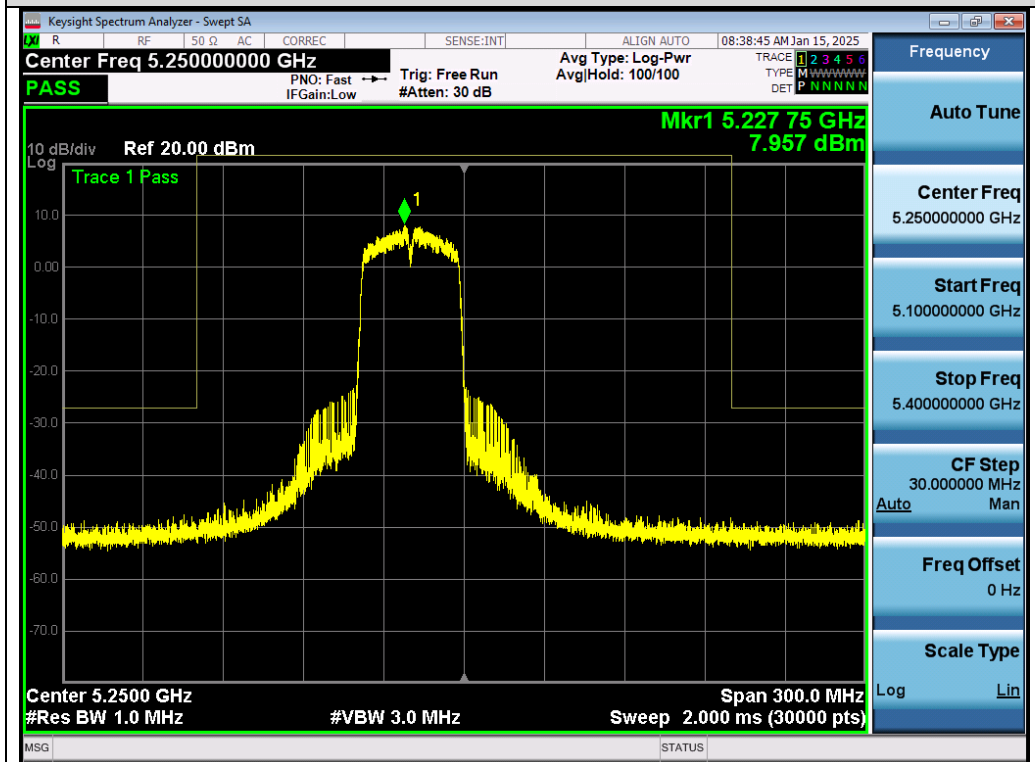
Test_Graph_802.11n40_Chain B_5230_MCS0_Frequency Band 1

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.

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Test_Graph_802.11n40_Chain B_5230_MCS0_Frequency Band 2

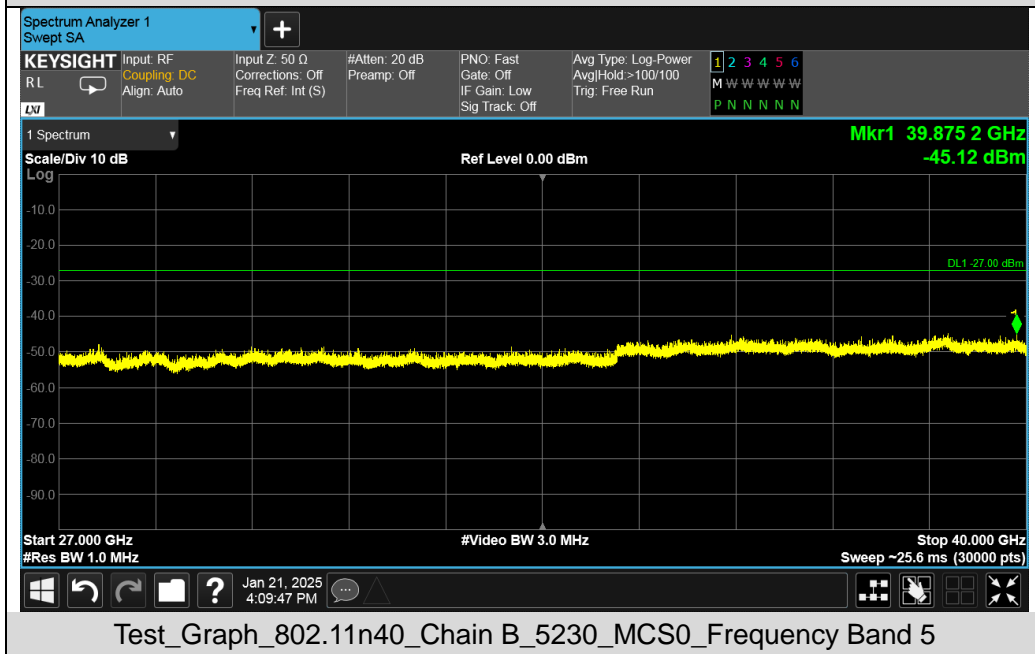


Test_Graph_802.11n40_Chain B_5230_MCS0_Frequency Band 3

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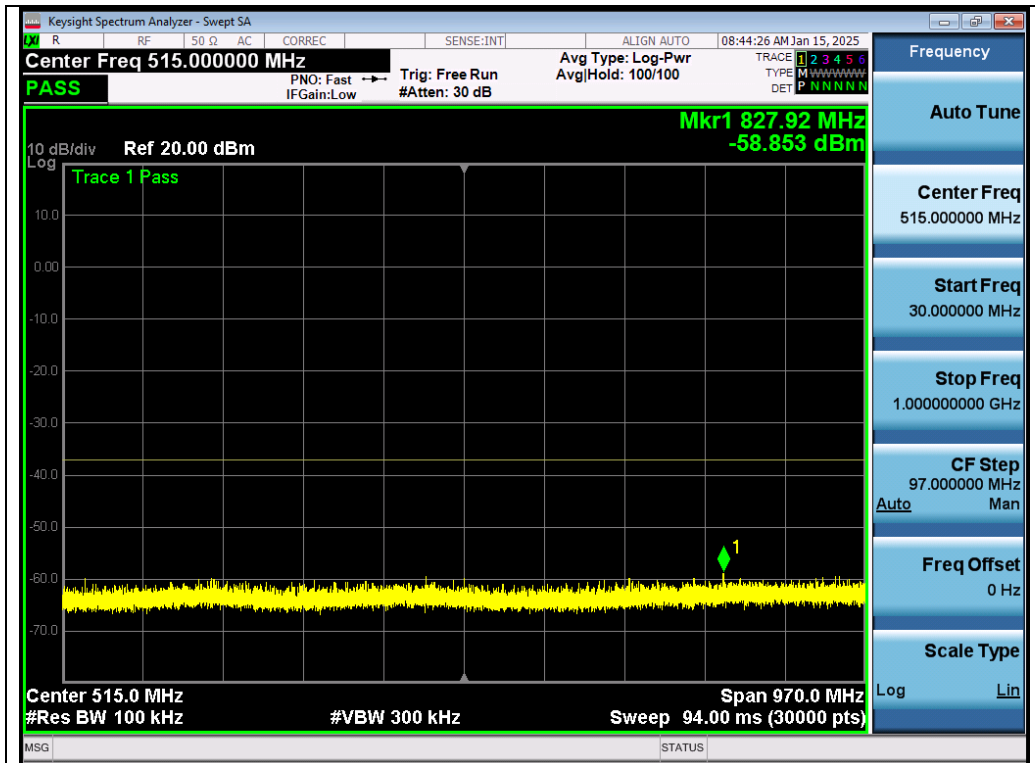


Test_Graph_802.11n40_Chain B_5230_MCS0_Frequency Band 4

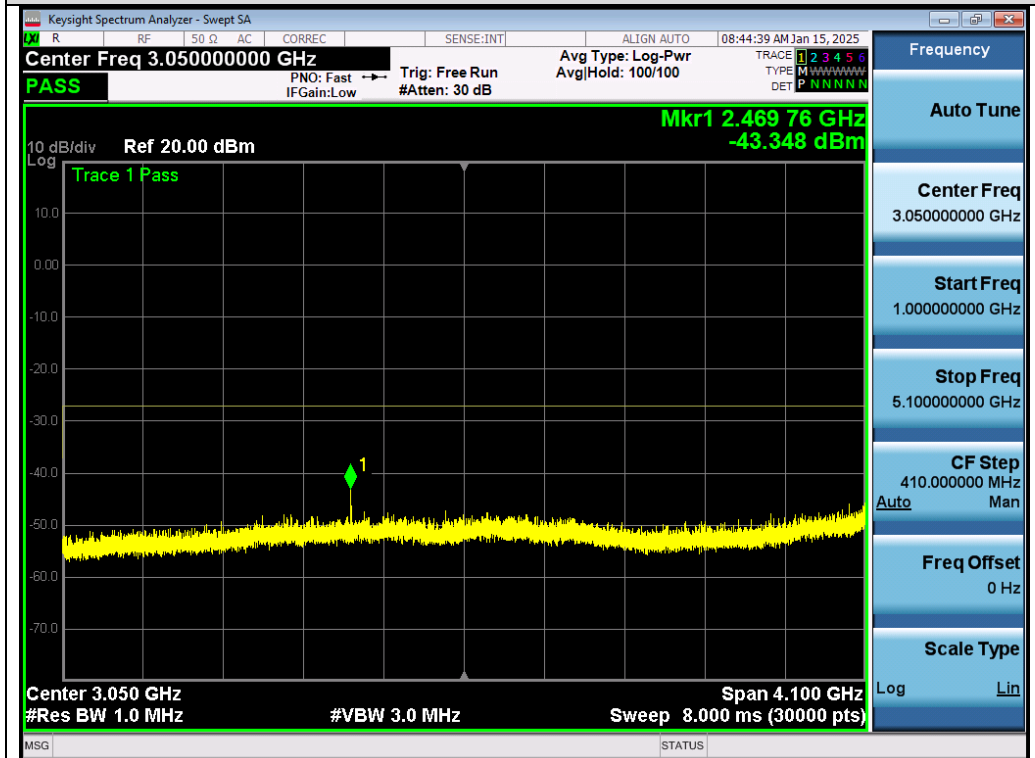


Test_Graph_802.11n40_Chain B_5230_MCS0_Frequency Band 5

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Test_Graph_802.11ac80_Chain B_5210_MCS0_Frequency Band 1

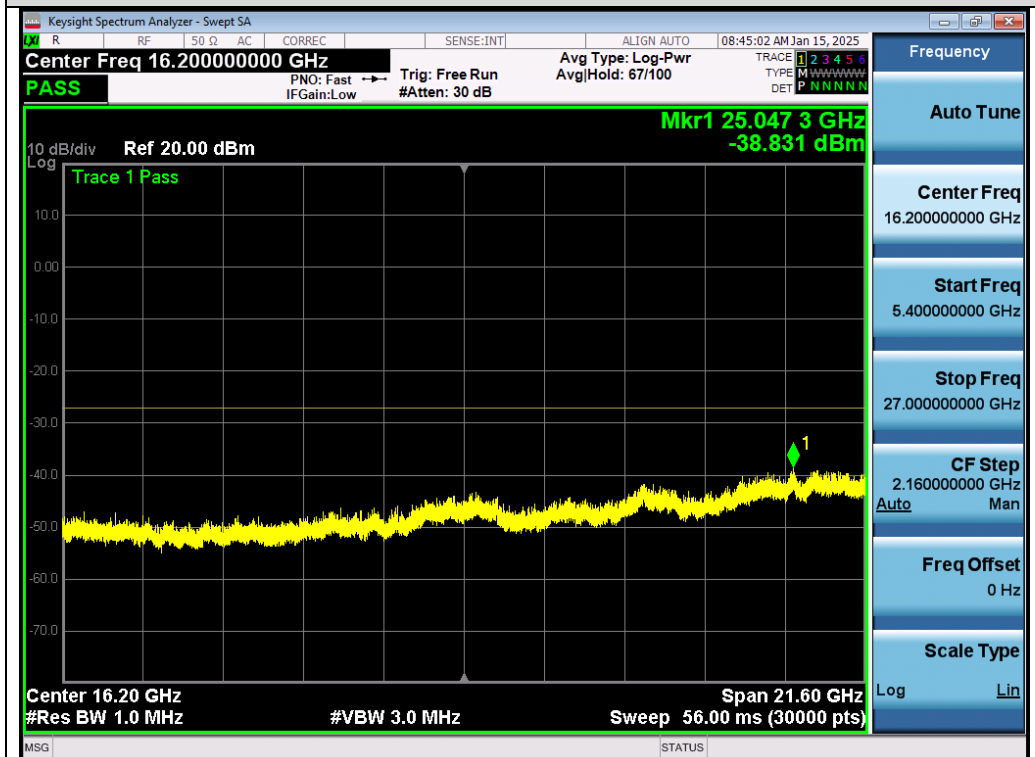


Test_Graph_802.11ac80_Chain B_5210_MCS0_Frequency Band 2

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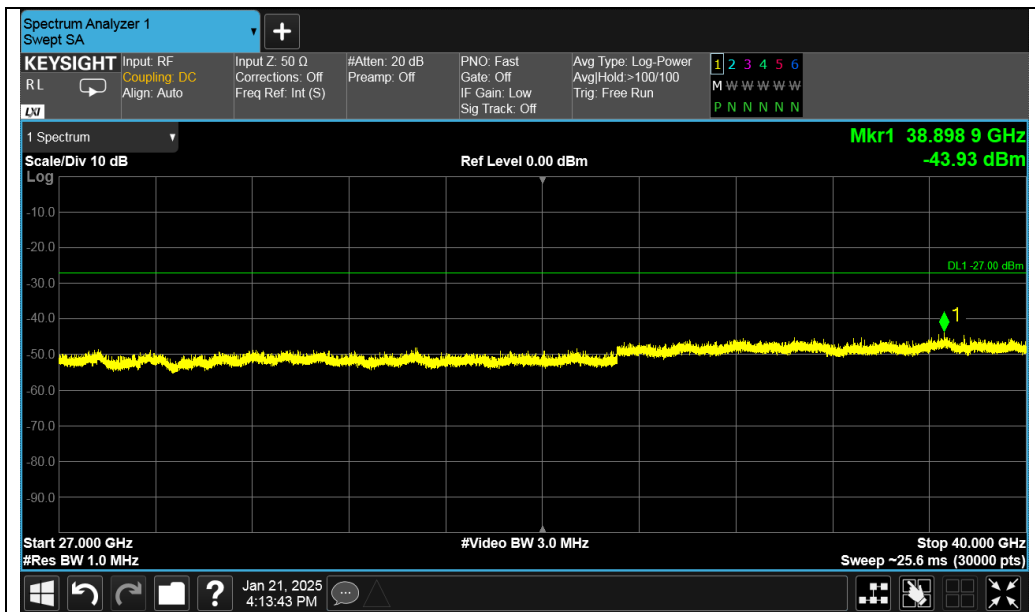


Test_Graph_802.11ac80_Chain B_5210_MCS0_Frequency Band 3

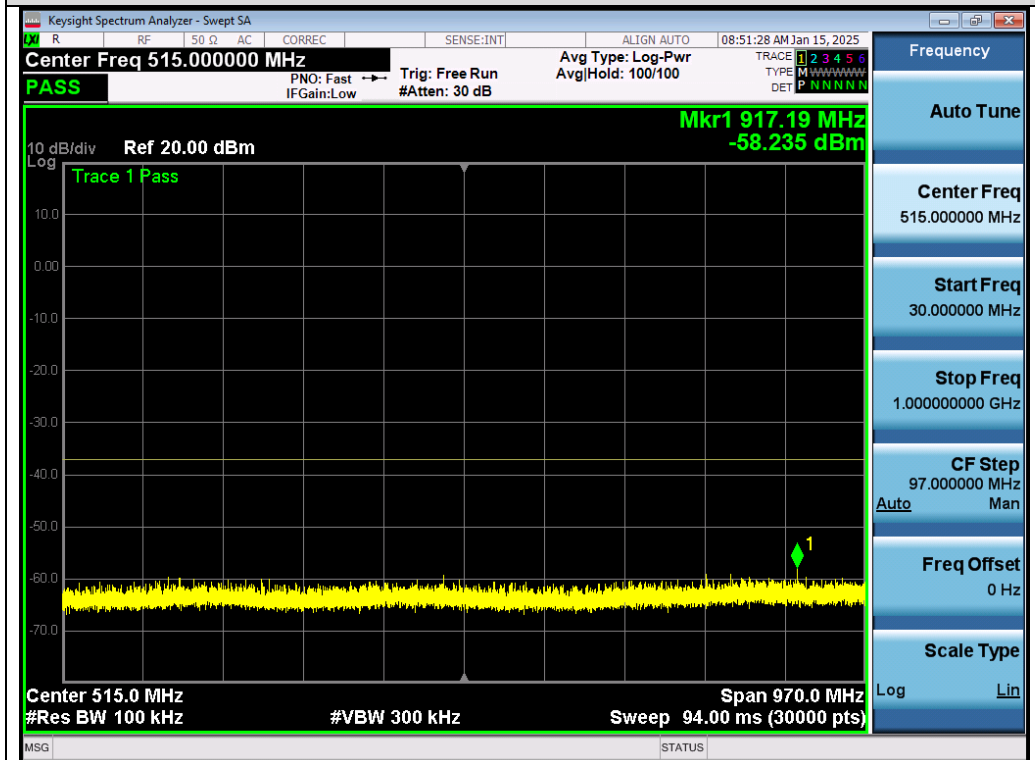


Test_Graph_802.11ac80_Chain B_5210_MCS0_Frequency Band 4

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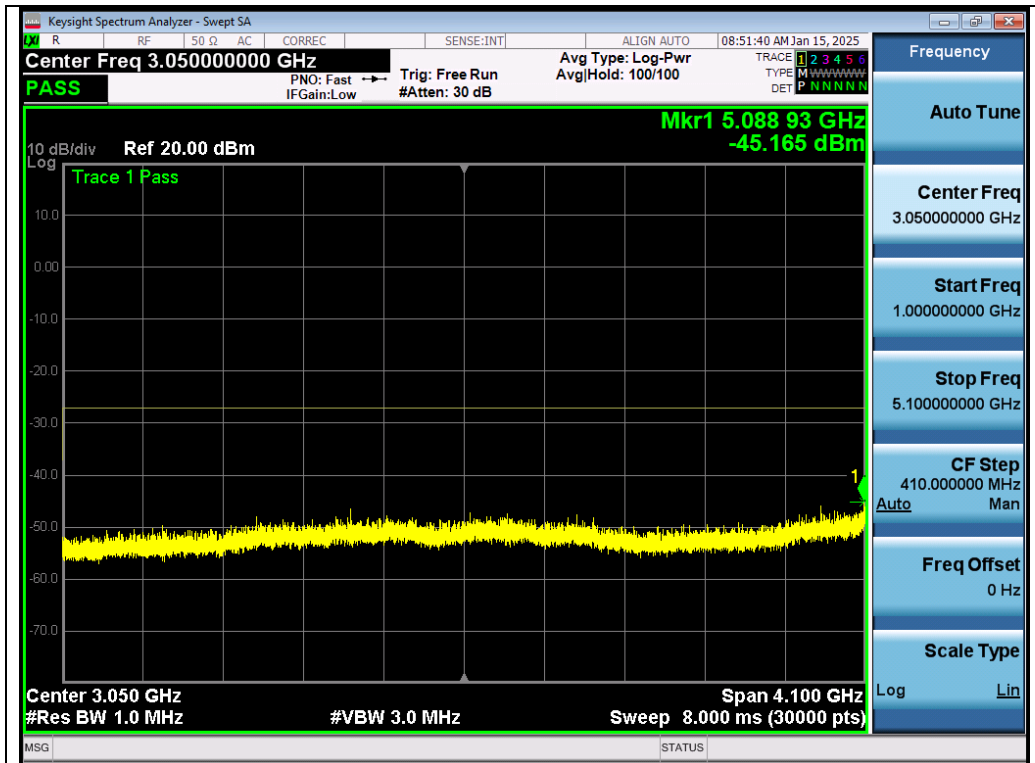


Test_Graph_802.11ac80_Chain B_5210_MCS0_Frequency Band 5



Test_Graph_802.11ax80_Chain B_5210_MCS0_Frequency Band 1

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Test_Graph_802.11ax80_Chain B_5210_MCS0_Frequency Band 2

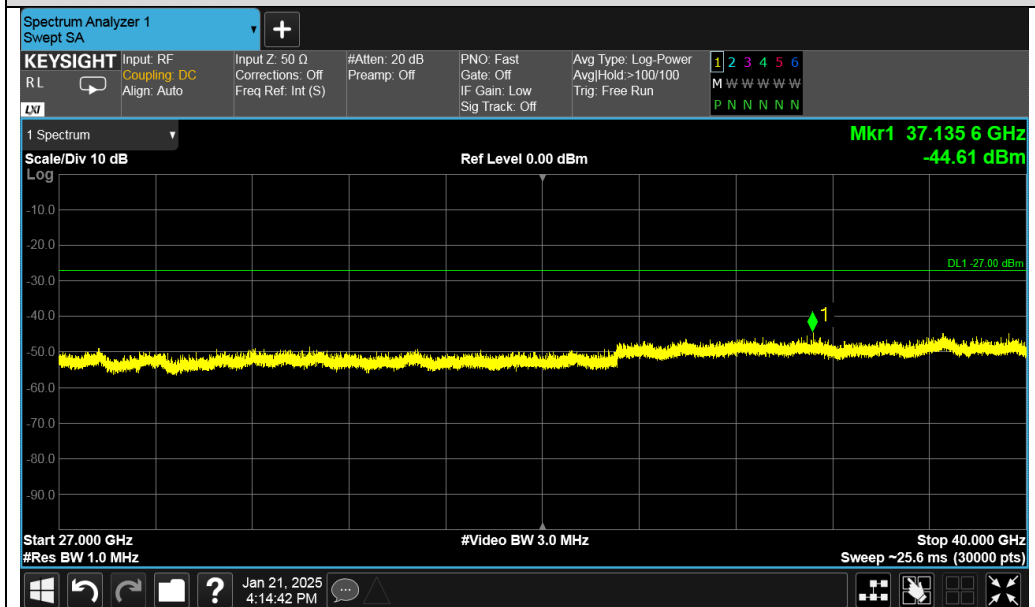


Test_Graph_802.11ax80_Chain B_5210_MCS0_Frequency Band 3

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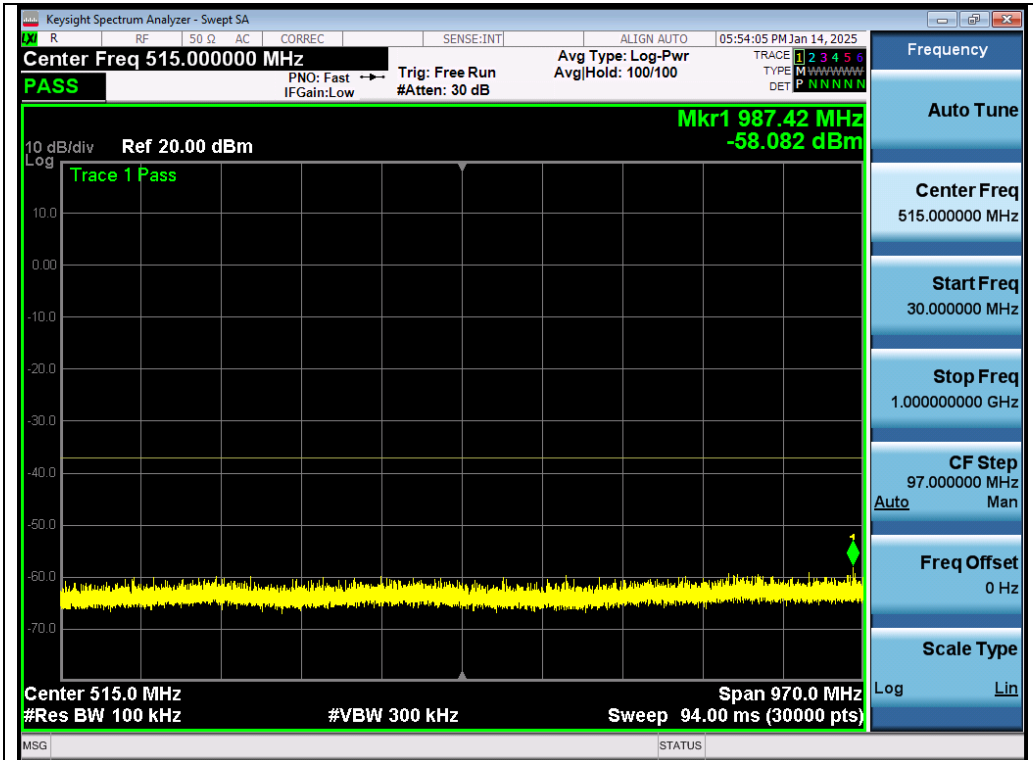
Test_Graph_802.11ax80_Chain B_5210_MCS0_Frequency Band 4



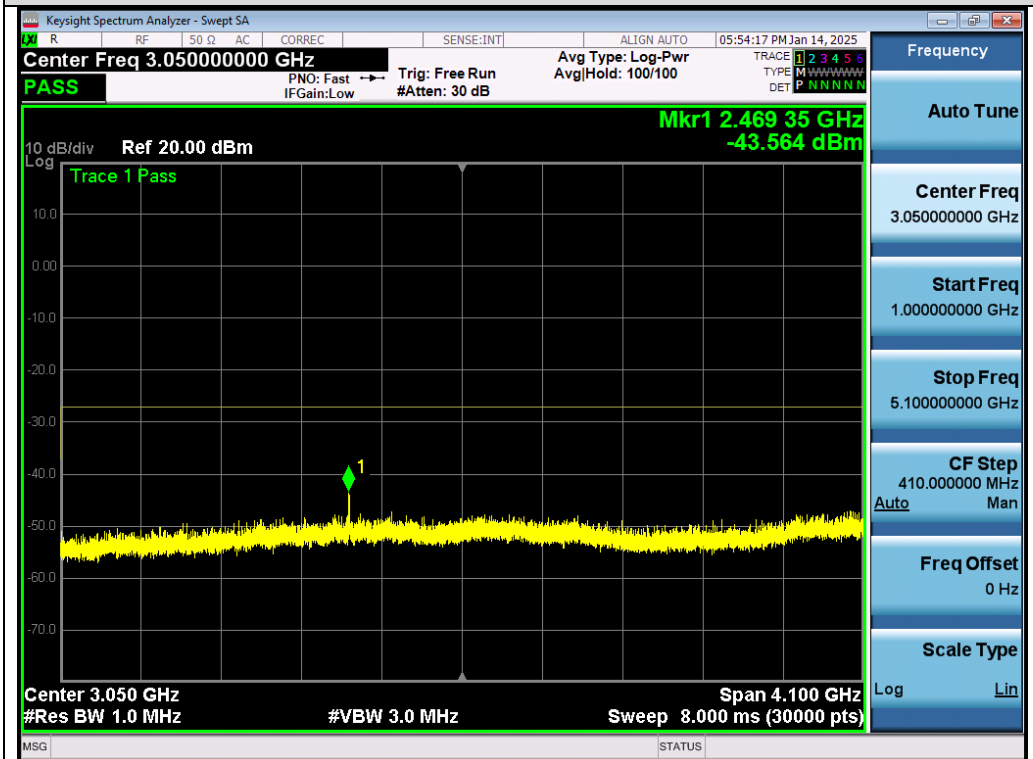
Test_Graph_802.11ax80_Chain B_5210_MCS0_Frequency Band 5

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Test Graphs of Spurious Emissions outside of the 5.25-5.35 GHz band

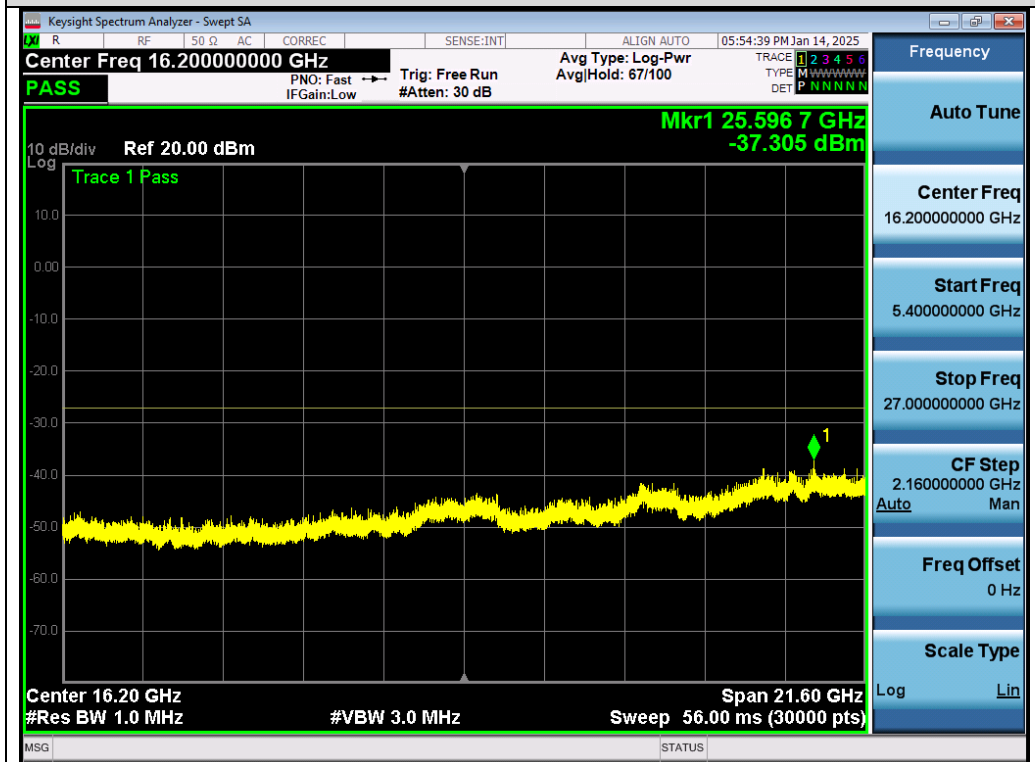
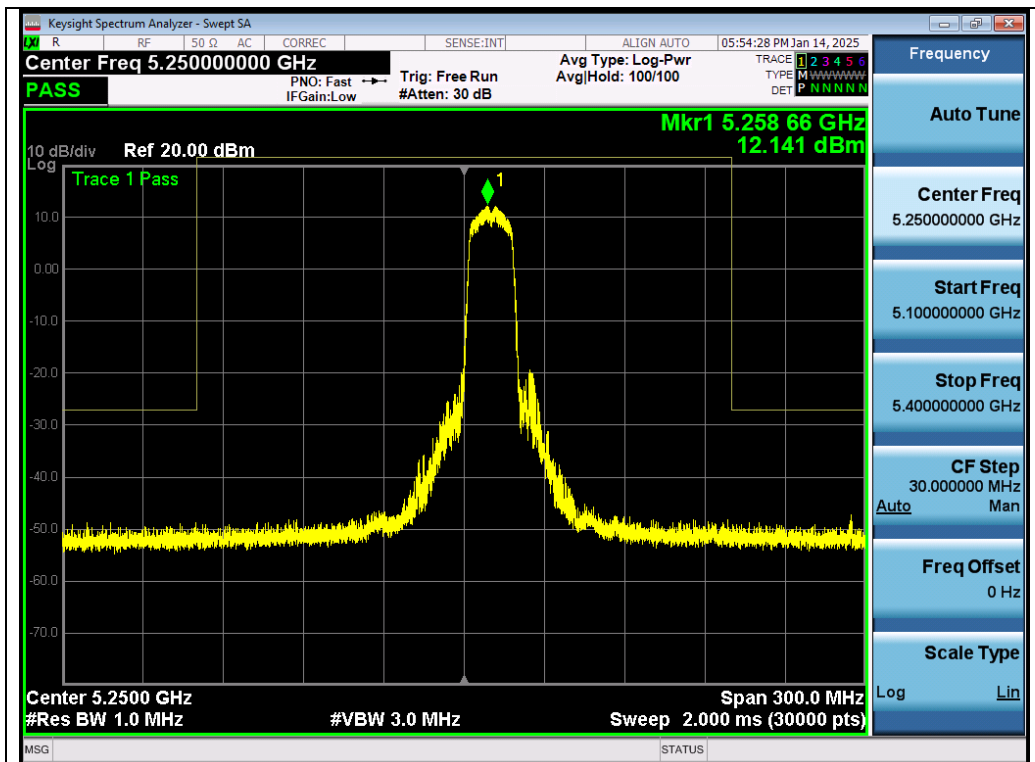


Test_Graph_802.11a_Chain A_5260_6Mbps_Frequency Band 1

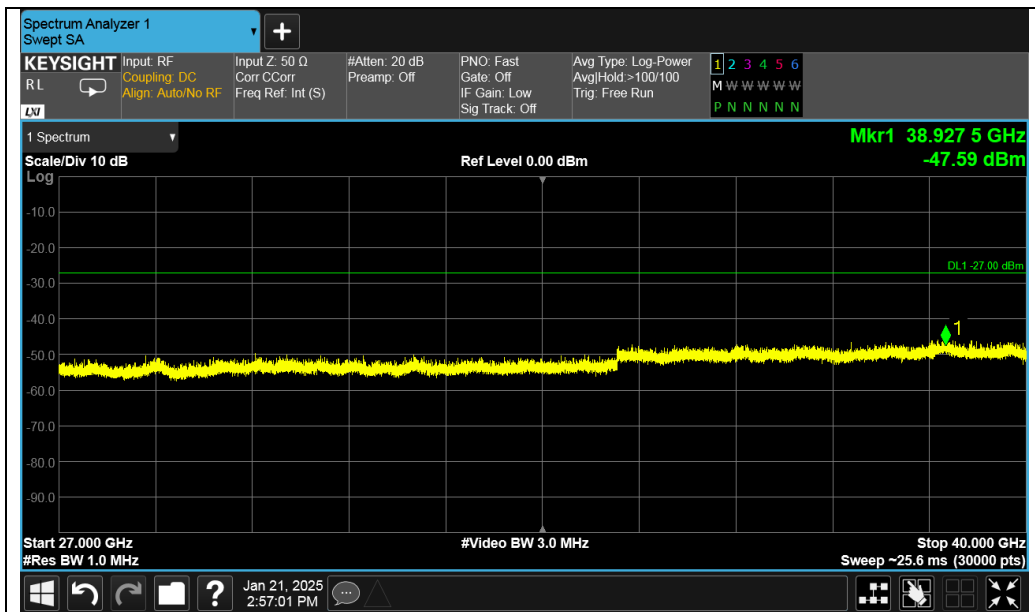


Test_Graph_802.11a_Chain A_5260_6Mbps_Frequency Band 2

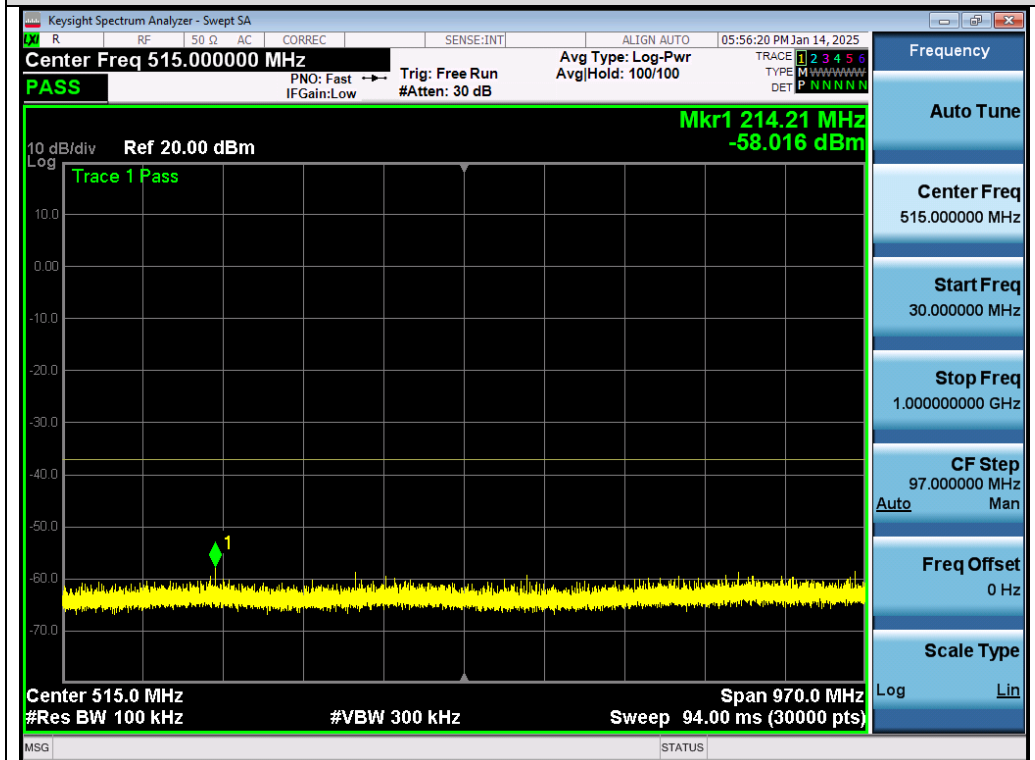
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.



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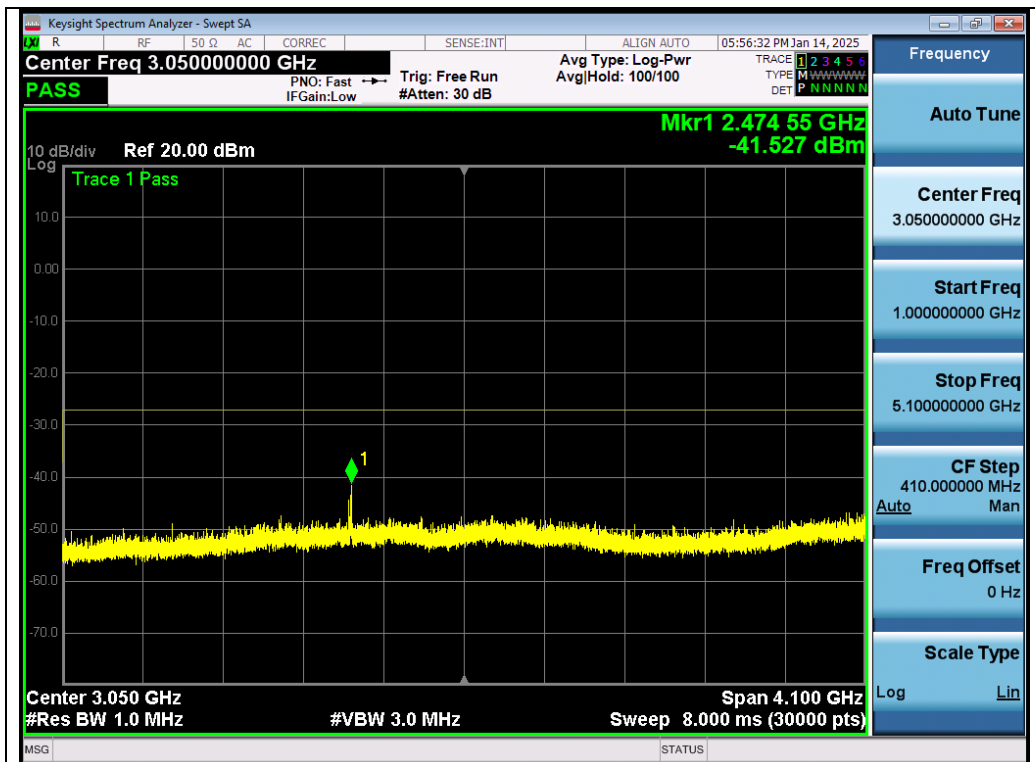
Test_Graph_802.11a_Chain A_5260_6Mbps_Frequency Band 5



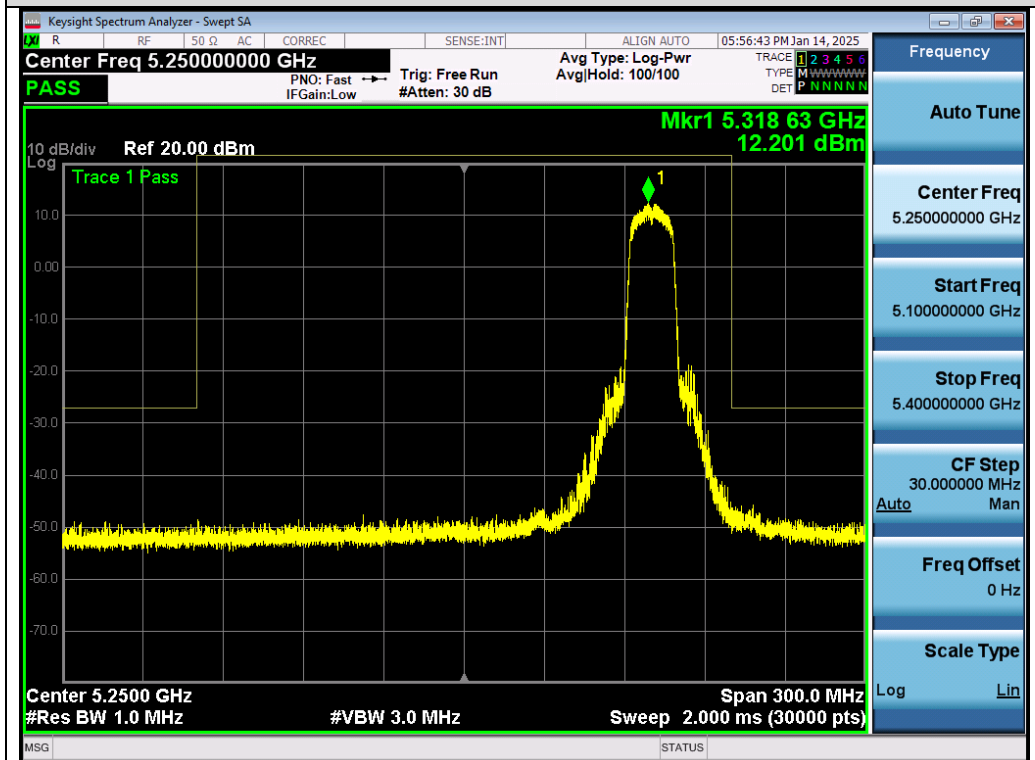
Test_Graph_802.11a_Chain A_5320_6Mbps_Frequency Band 1

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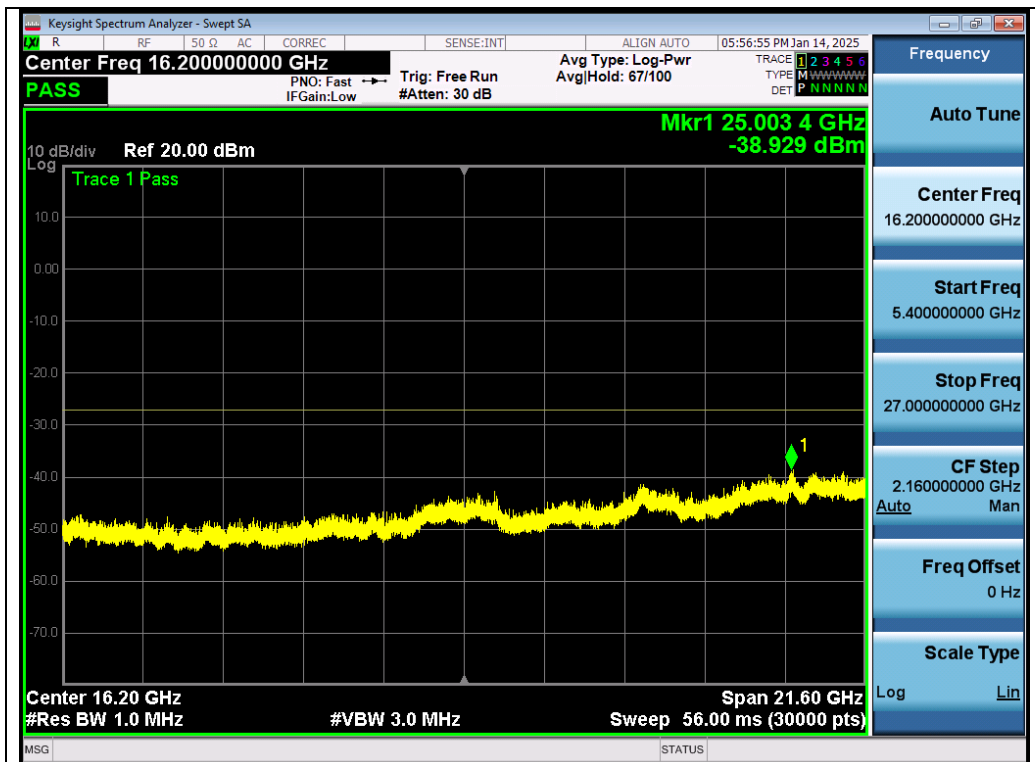


Test_Graph_802.11a_Chain A_5320_6Mbps_Frequency Band 2

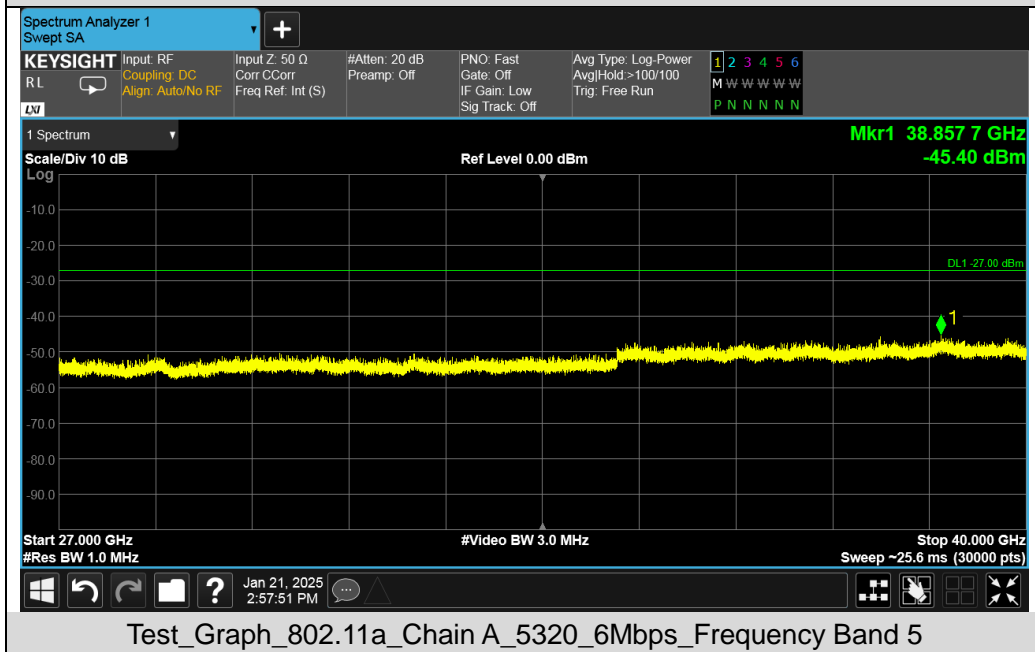


Test_Graph_802.11a_Chain A_5320_6Mbps_Frequency Band 3

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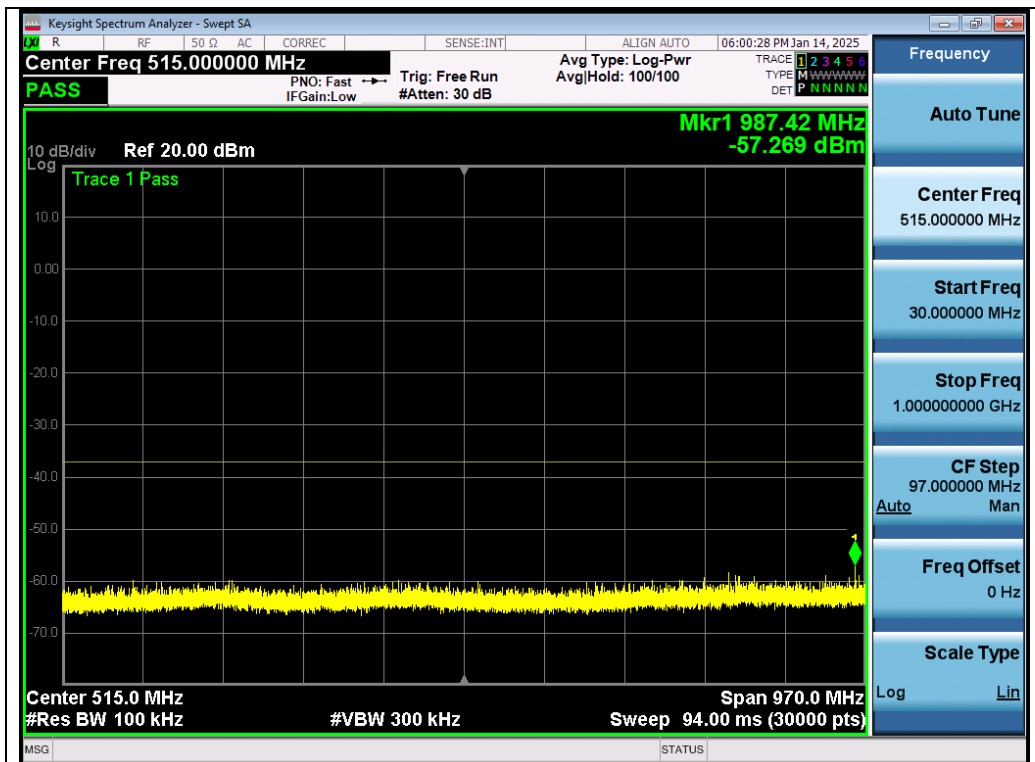


Test_Graph_802.11a_Chain A_5320_6Mbps_Frequency Band 4

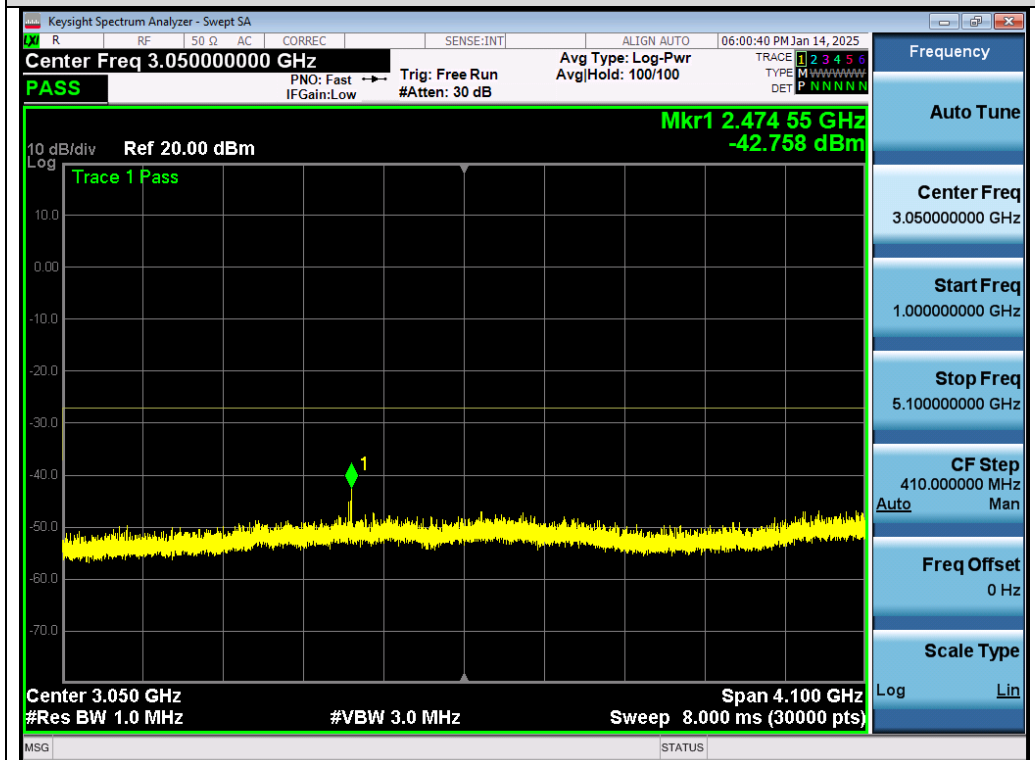


Test_Graph_802.11a_Chain A_5320_6Mbps_Frequency Band 5

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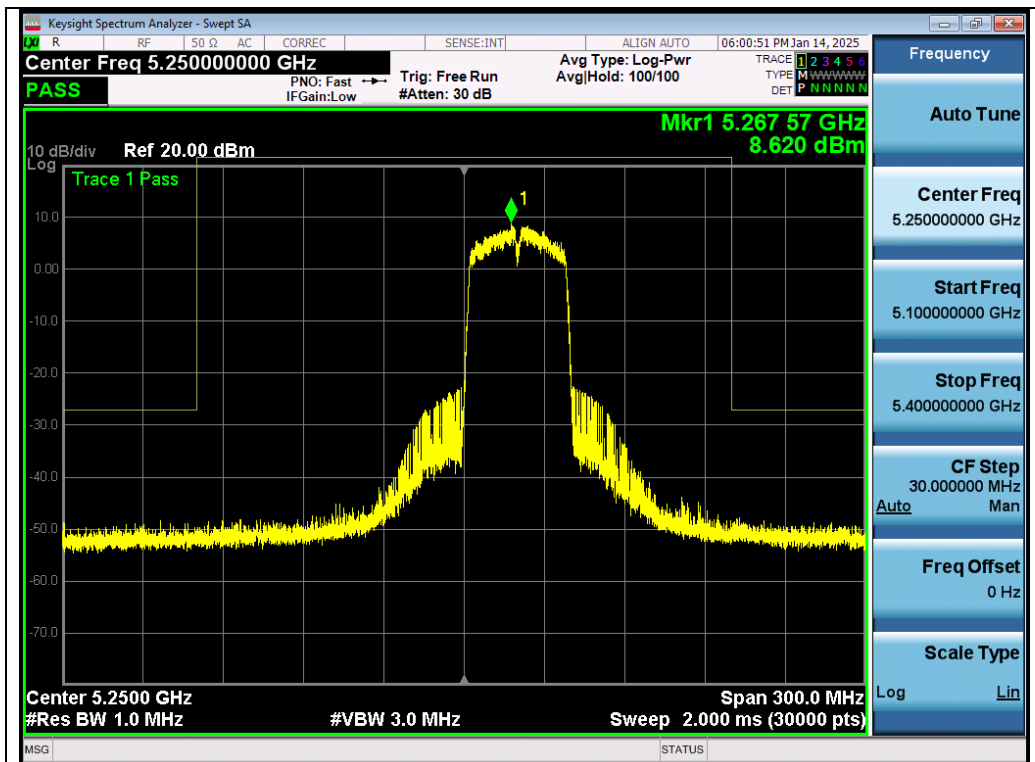


Test_Graph_802.11n40_Chain A_5270_MCS0_Frequency Band 1



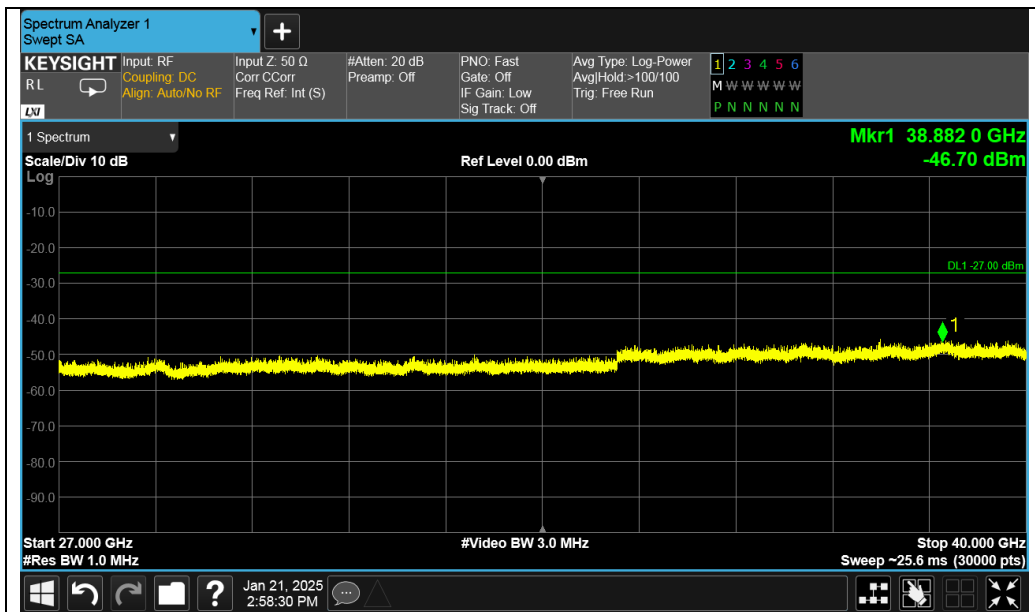
Test_Graph_802.11n40_Chain A_5270_MCS0_Frequency Band 2

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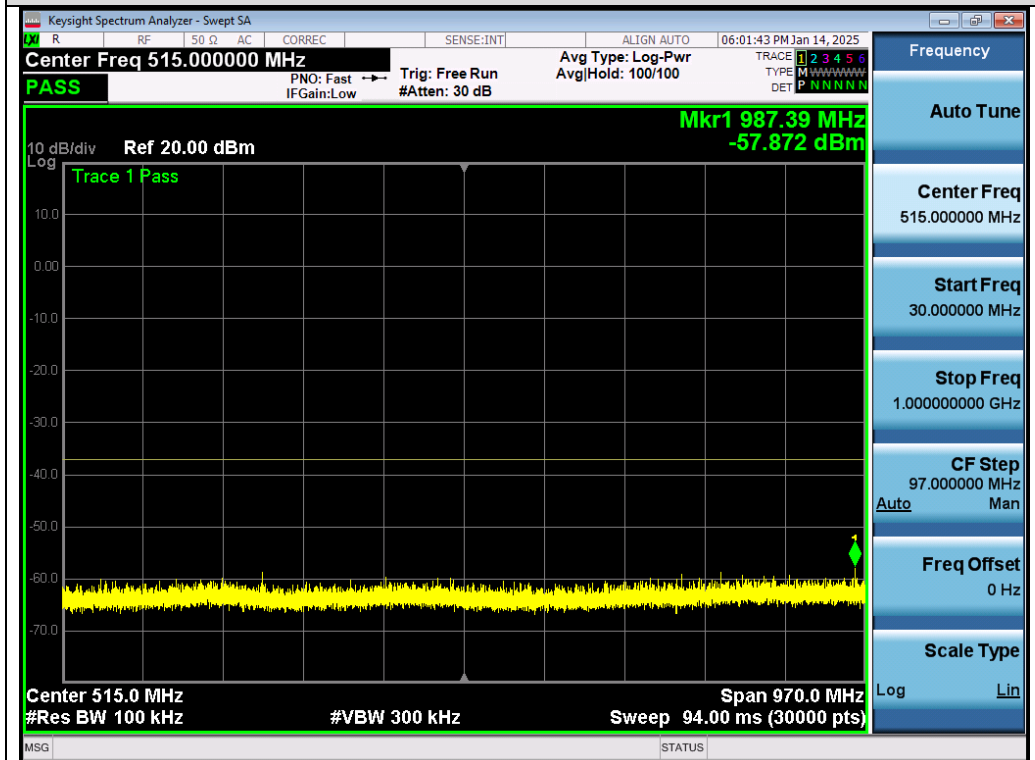


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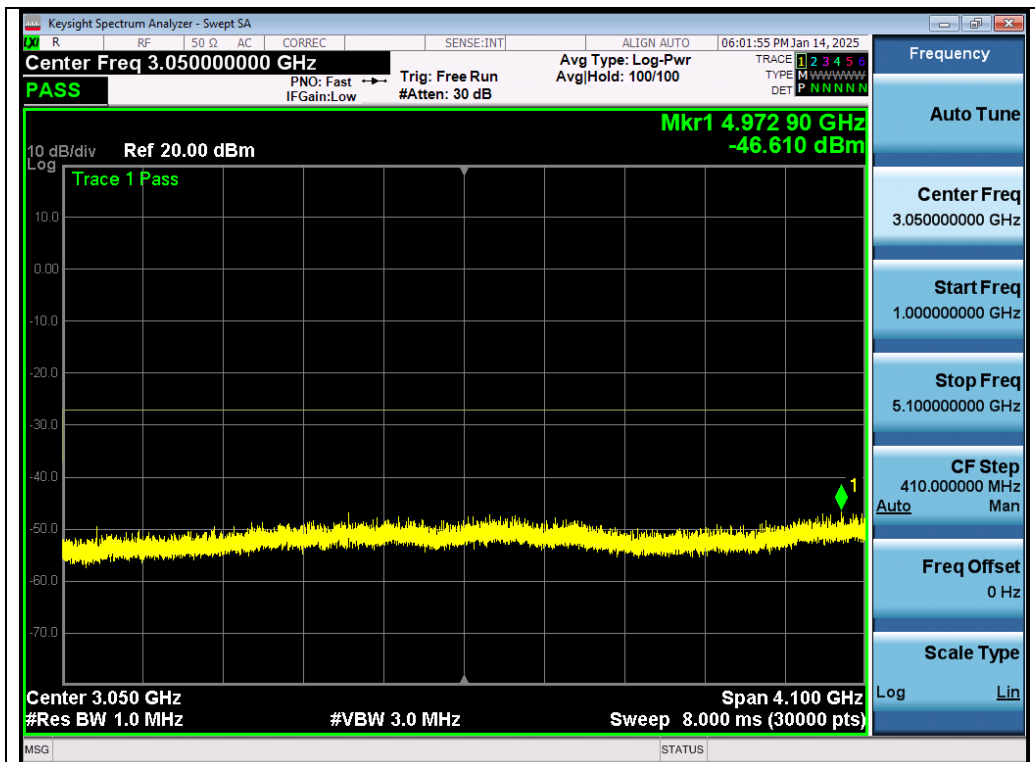
Test_Graph_802.11n40_Chain A_5270_MCS0_Frequency Band 5



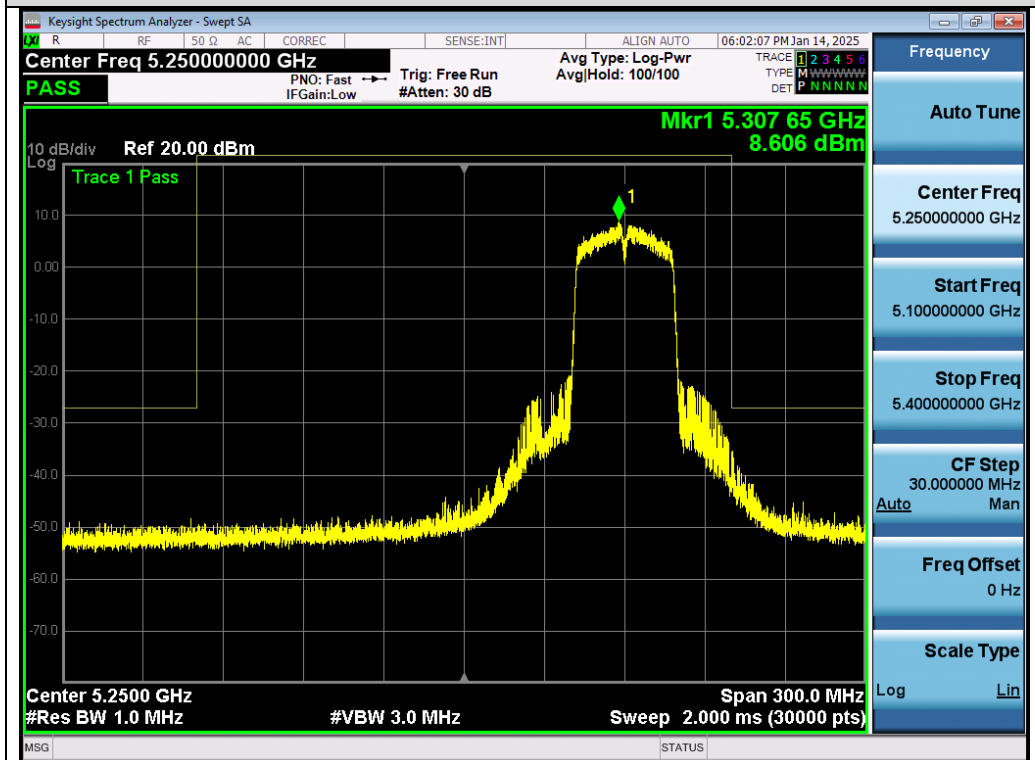
Test_Graph_802.11n40_Chain A_5310_MCS0_Frequency Band 1

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Test_Graph_802.11n40_Chain A_5310_MCS0_Frequency Band 2

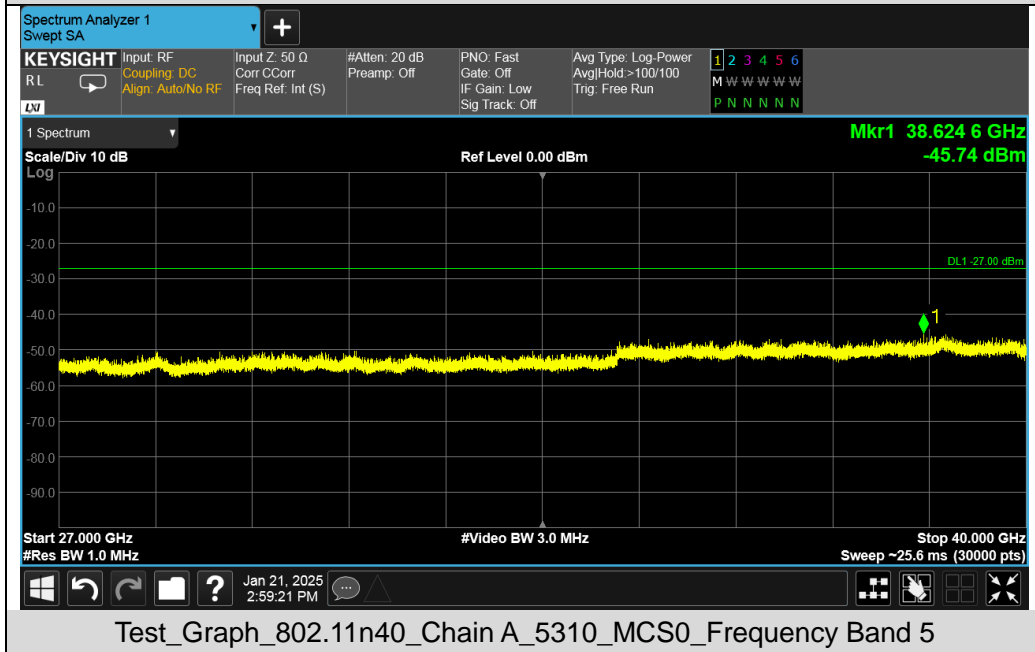


Test_Graph_802.11n40_Chain A_5310_MCS0_Frequency Band 3

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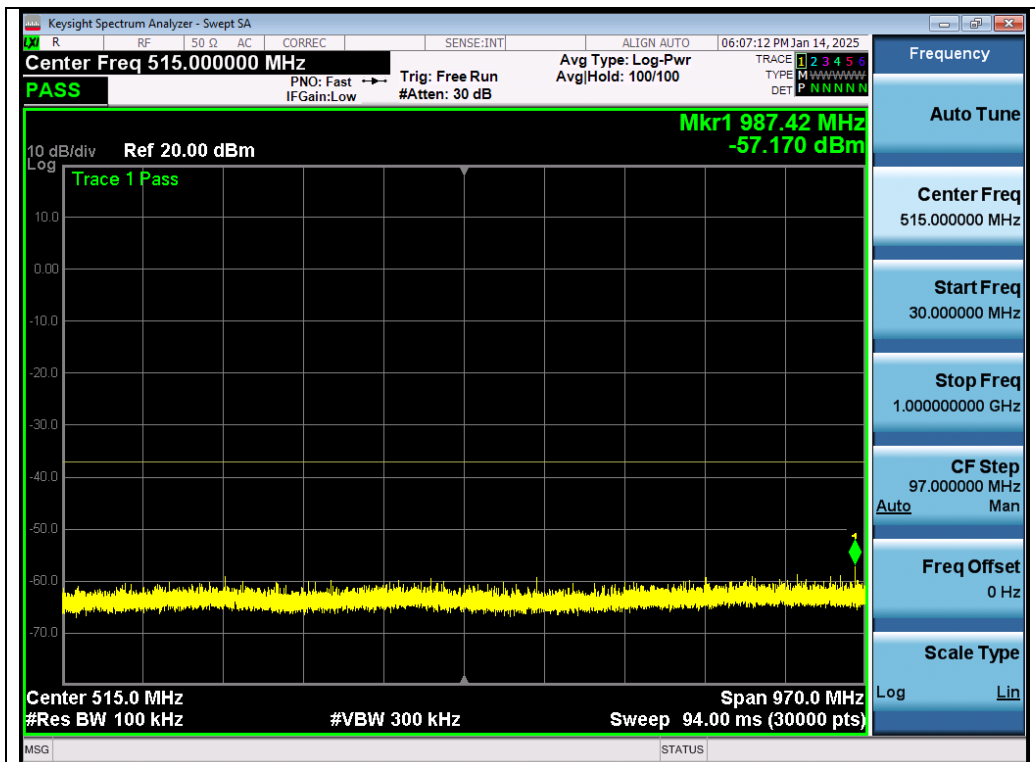
Test_Graph_802.11n40_Chain A_5310_MCS0_Frequency Band 4



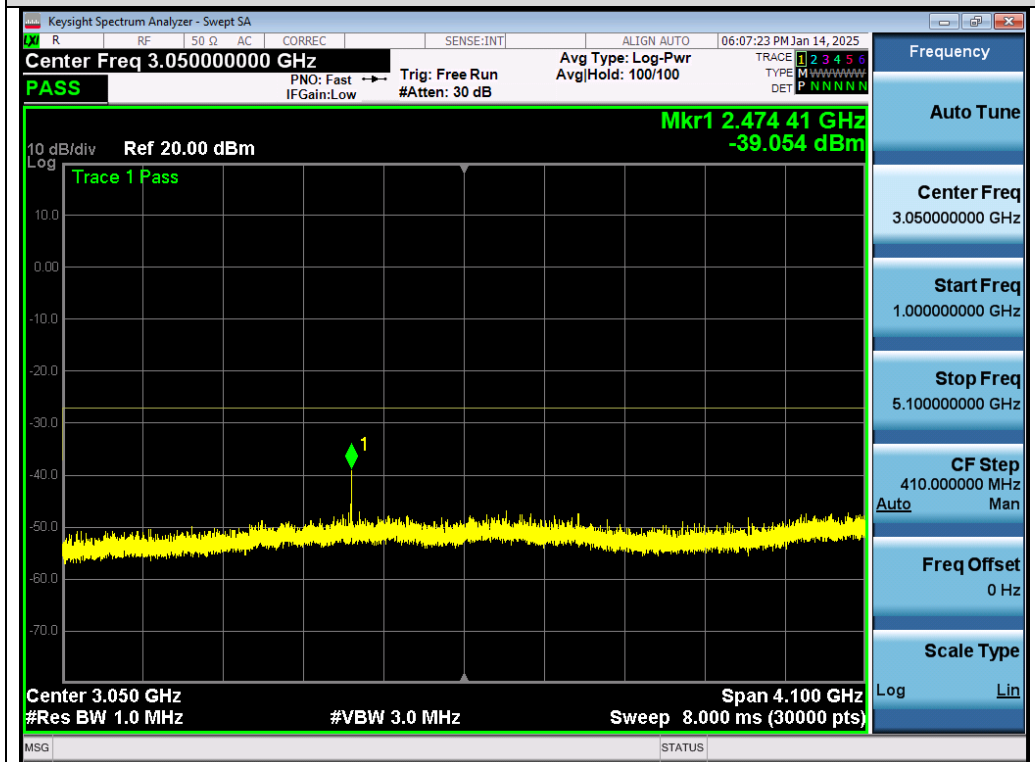
Test_Graph_802.11n40_Chain A_5310_MCS0_Frequency Band 5

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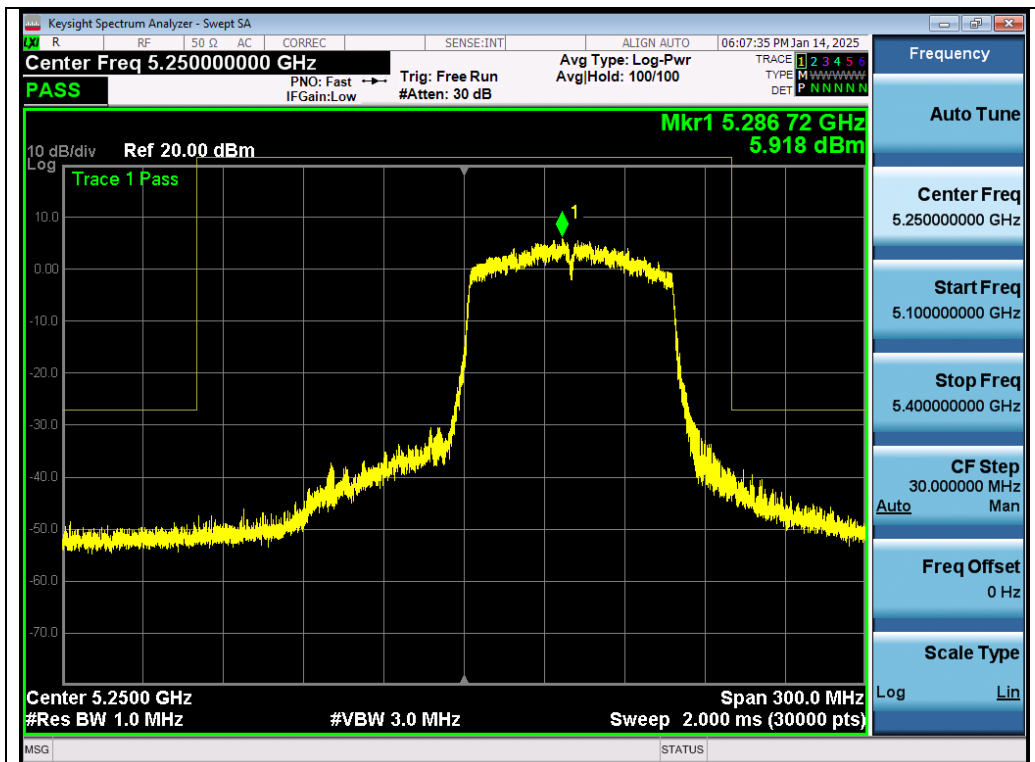


Test_Graph_802.11ac80_Chain A_5290_MCS0_Frequency Band 1

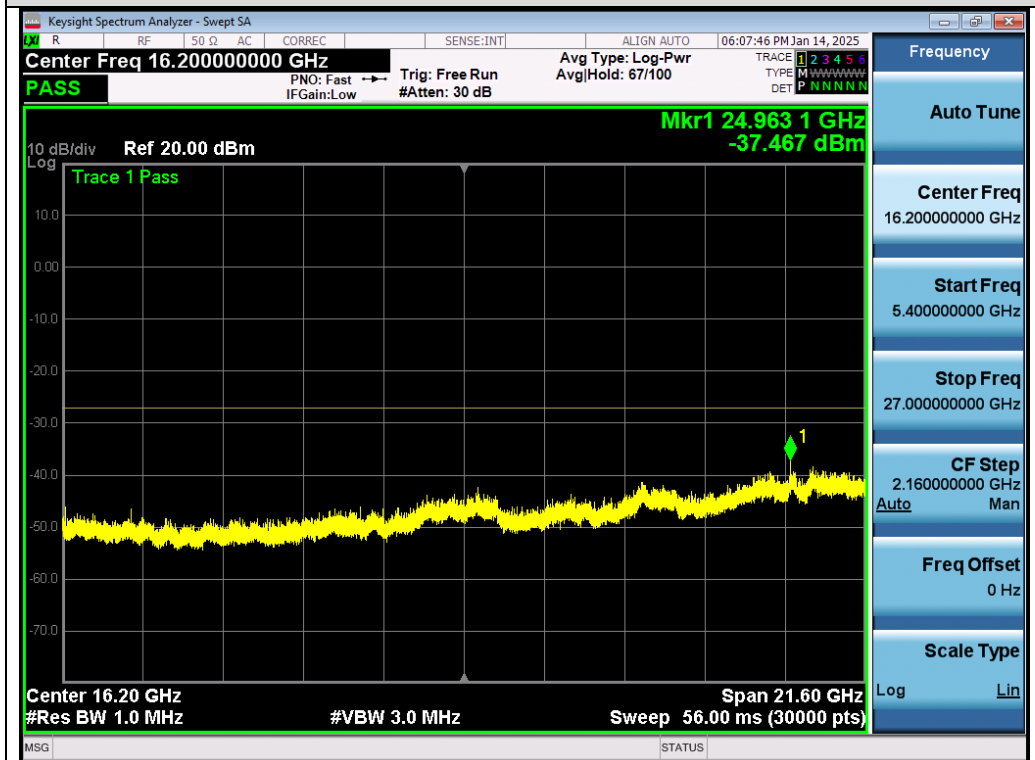


Test_Graph_802.11ac80_Chain A_5290_MCS0_Frequency Band 2

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Test_Graph_802.11ac80_Chain A_5290_MCS0_Frequency Band 3

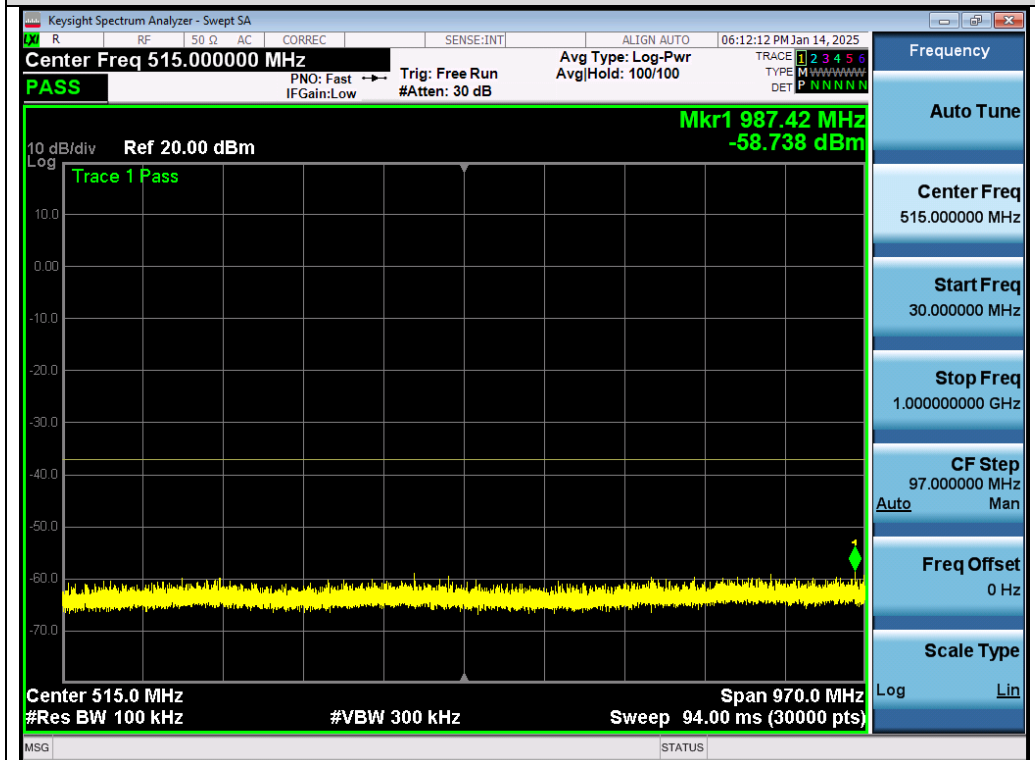


Test_Graph_802.11ac80_Chain A_5290_MCS0_Frequency Band 4

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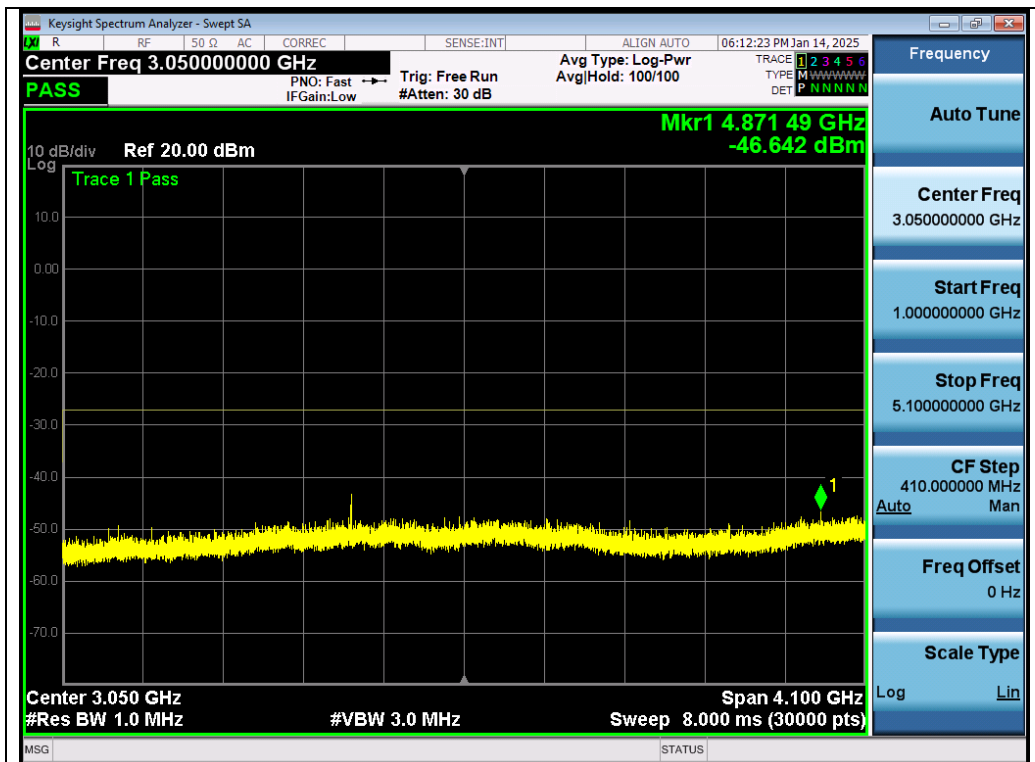
Test_Graph_802.11ac80_Chain A_5290_MCS0_Frequency Band 5



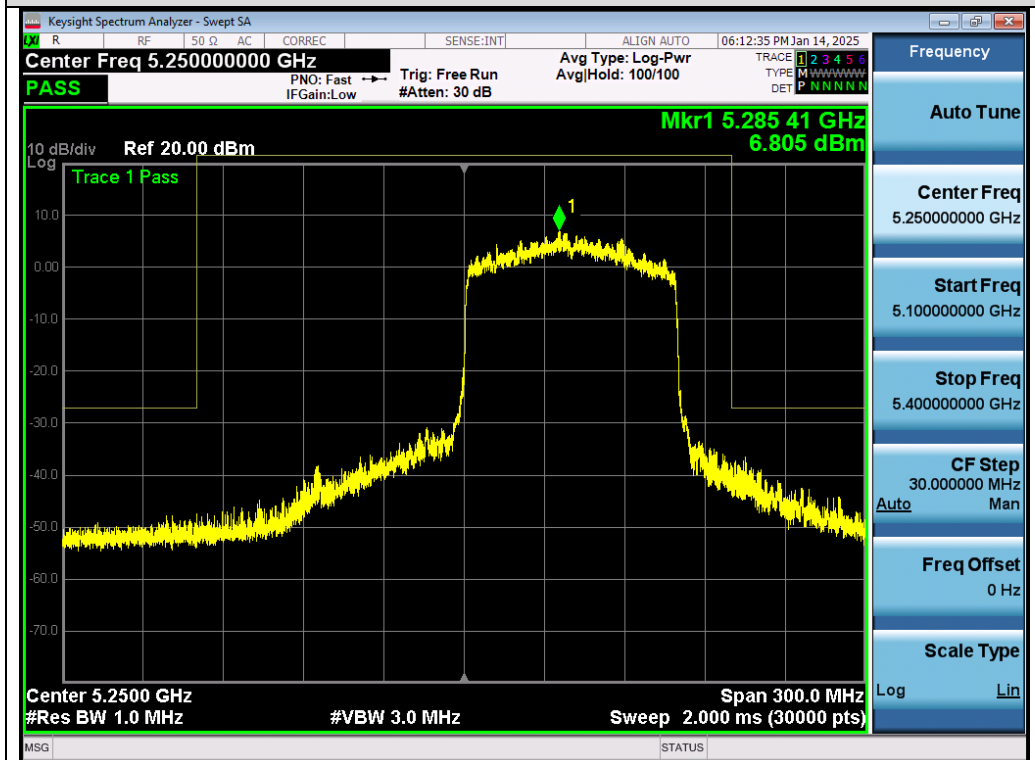
Test_Graph_802.11ax80_Chain A_5290_MCS0_Frequency Band 1

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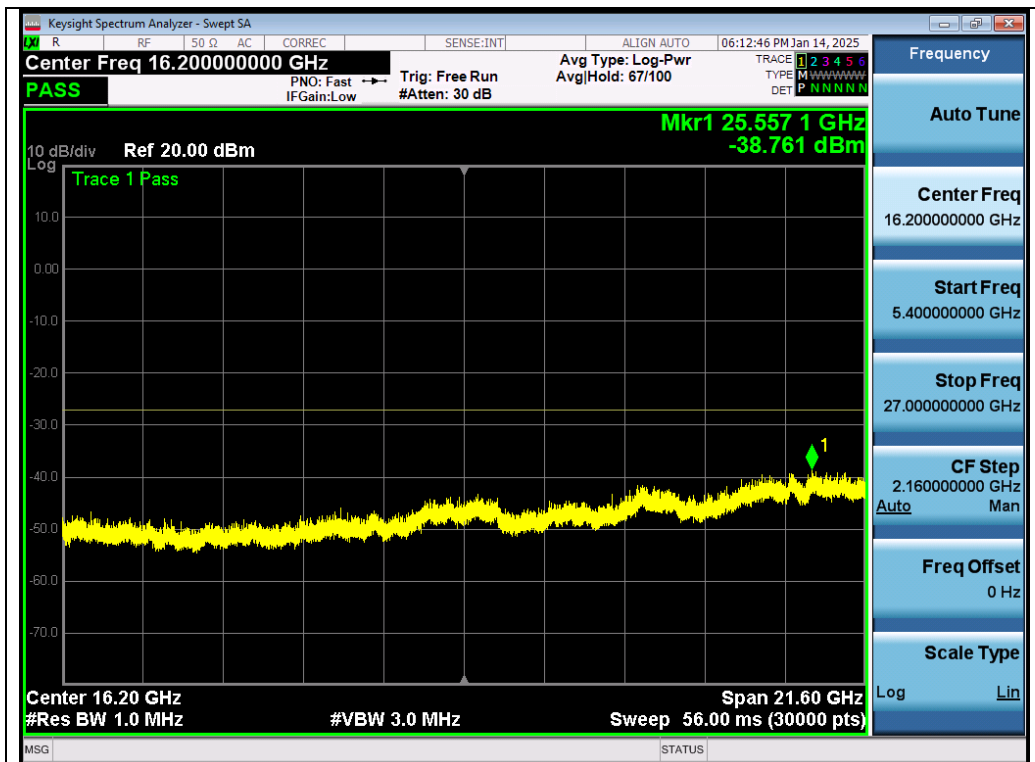


Test_Graph_802.11ax80_Chain A_5290_MCS0_Frequency Band 2

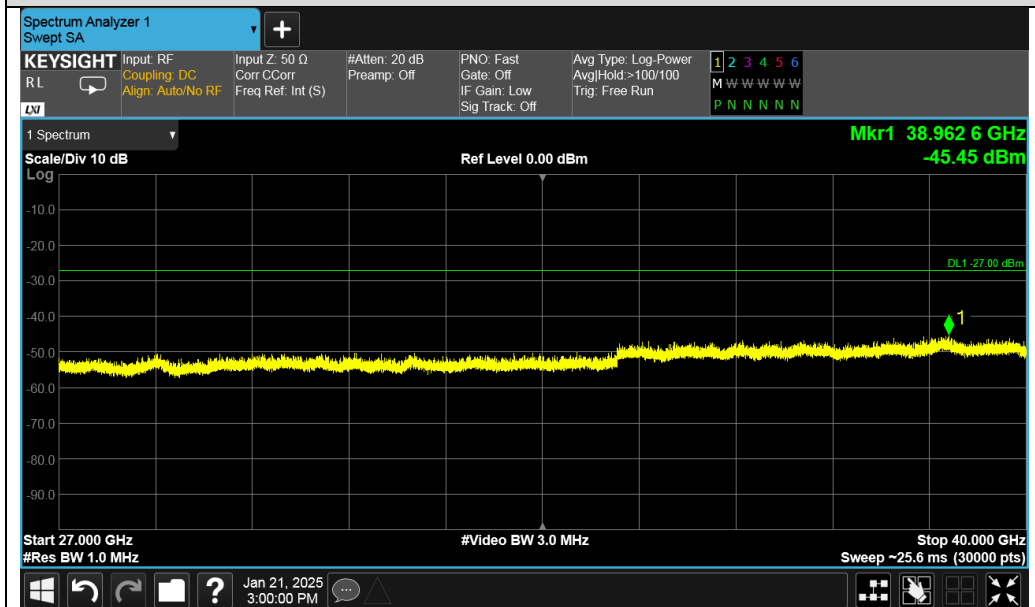


Test_Graph_802.11ax80_Chain A_5290_MCS0_Frequency Band 3

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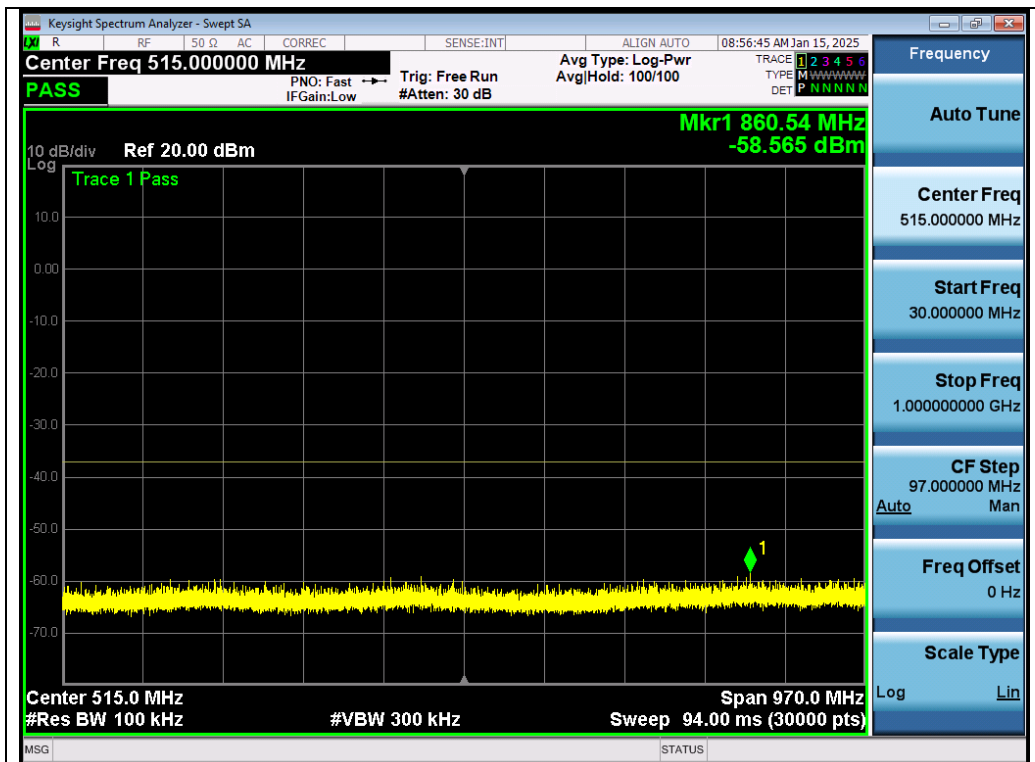


Test_Graph_802.11ax80_Chain A_5290_MCS0_Frequency Band 4

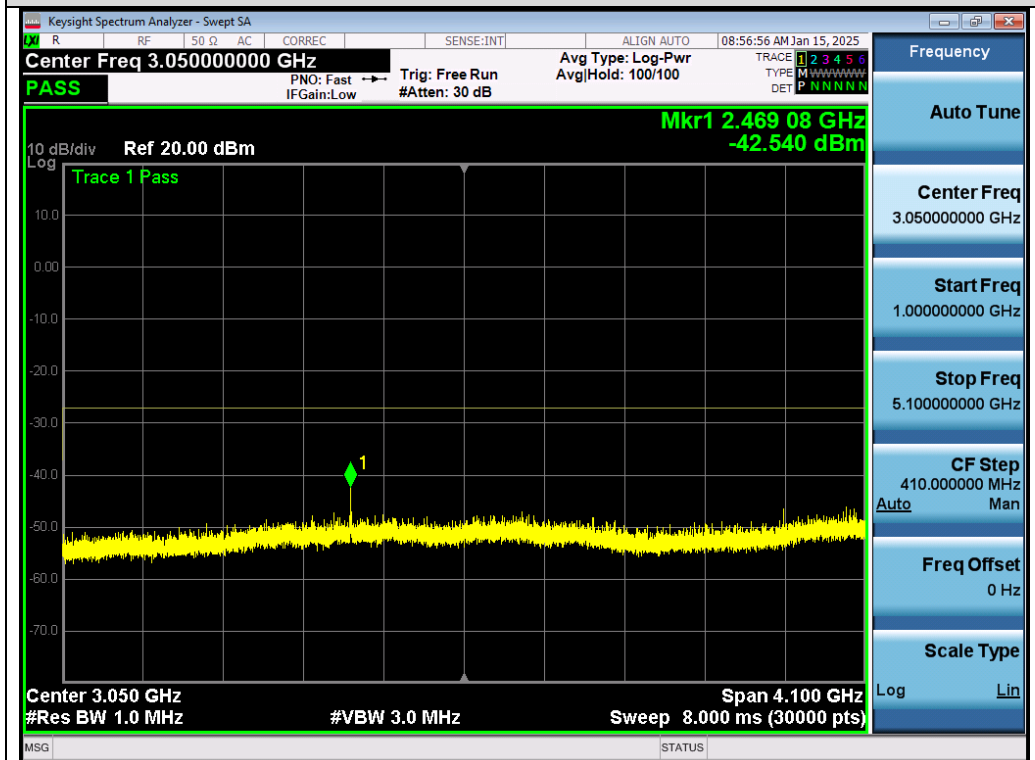


Test_Graph_802.11ax80_Chain A_5290_MCS0_Frequency Band 5

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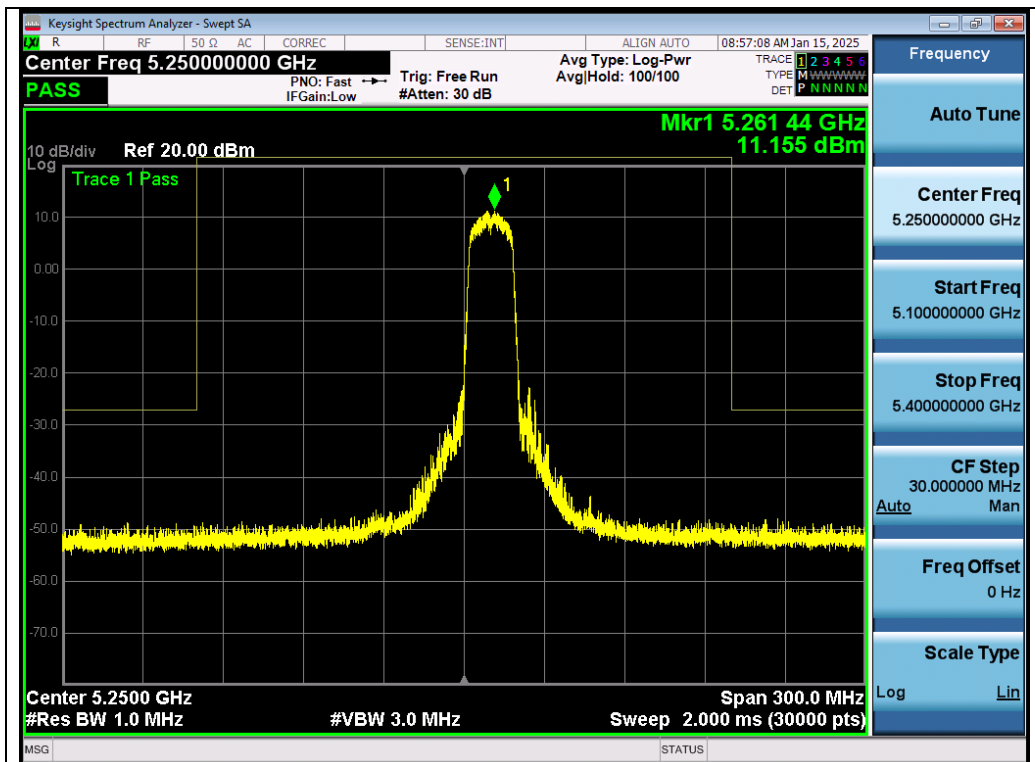


Test_Graph_802.11a_Chain B_5260_6Mbps_Frequency Band 1



Test_Graph_802.11a_Chain B_5260_6Mbps_Frequency Band 2

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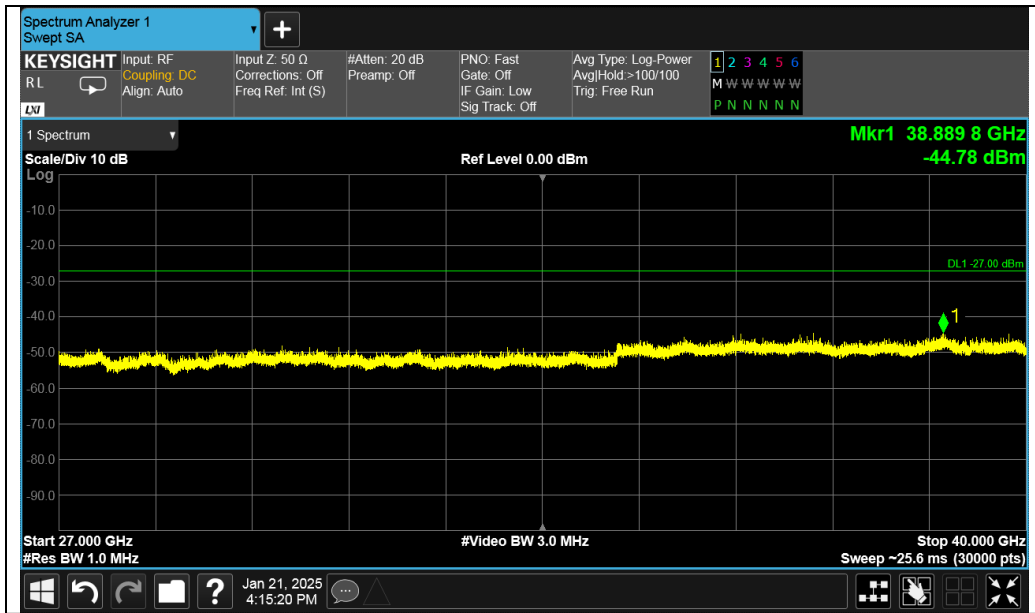


Test_Graph_802.11a_Chain B_5260_6Mbps_Frequency Band 3

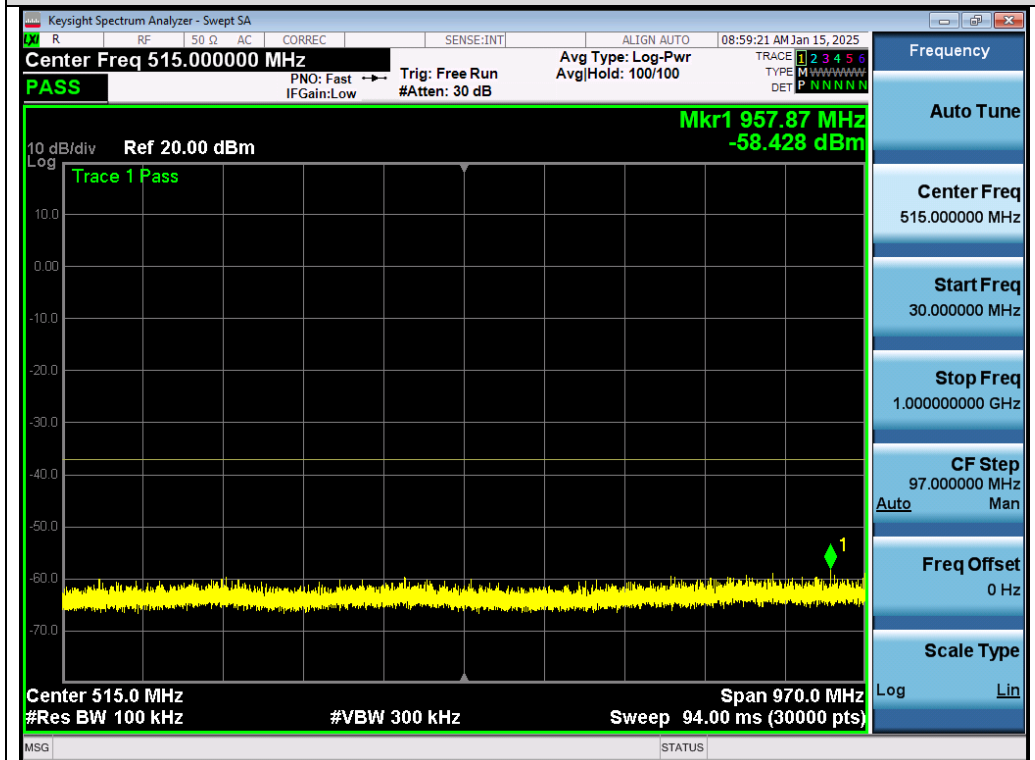


Test_Graph_802.11a_Chain B_5260_6Mbps_Frequency Band 4

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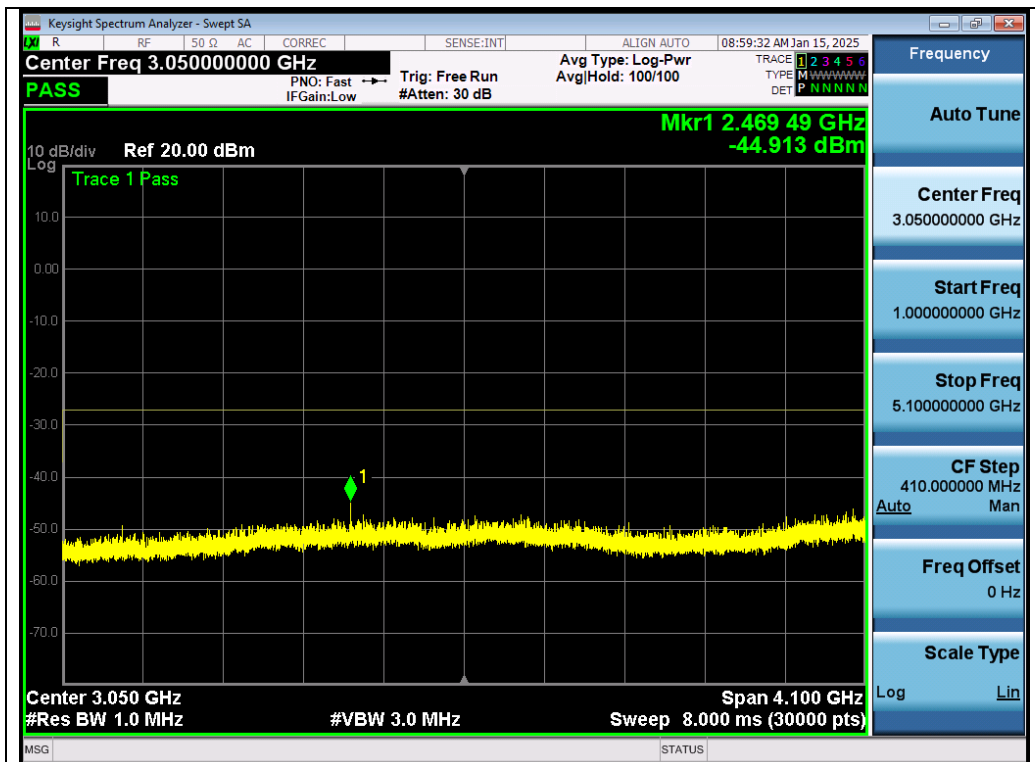


Test_Graph_802.11a_Chain B_5260_6Mbps_Frequency Band 5

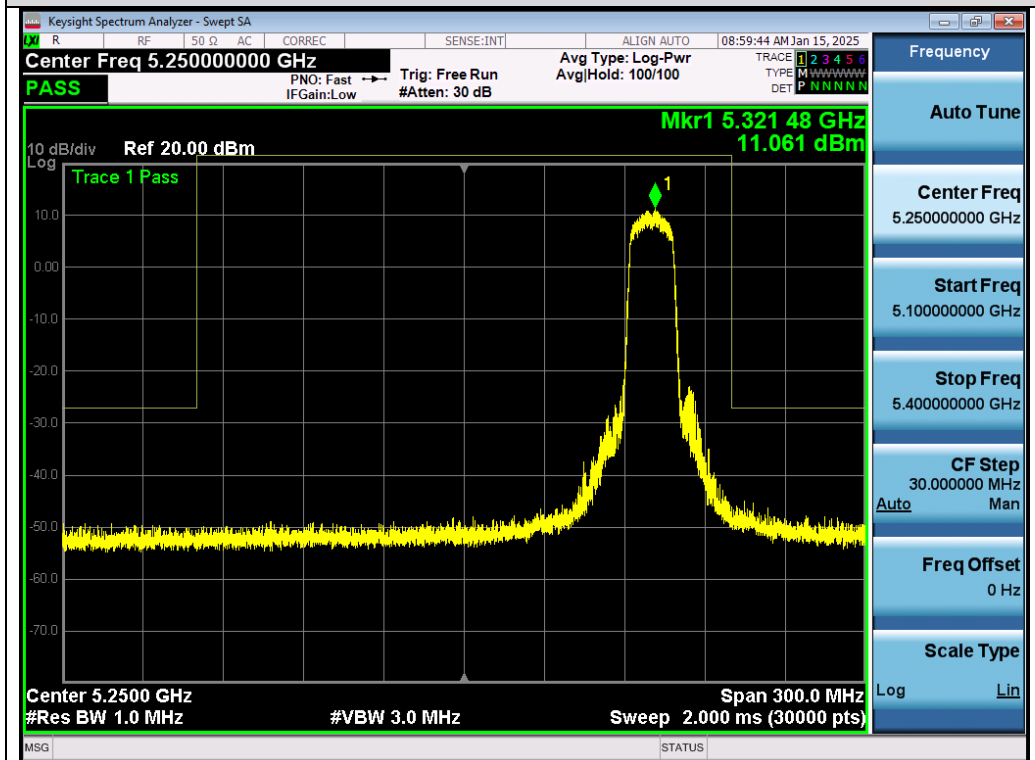


Test_Graph_802.11a_Chain B_5320_6Mbps_Frequency Band 1

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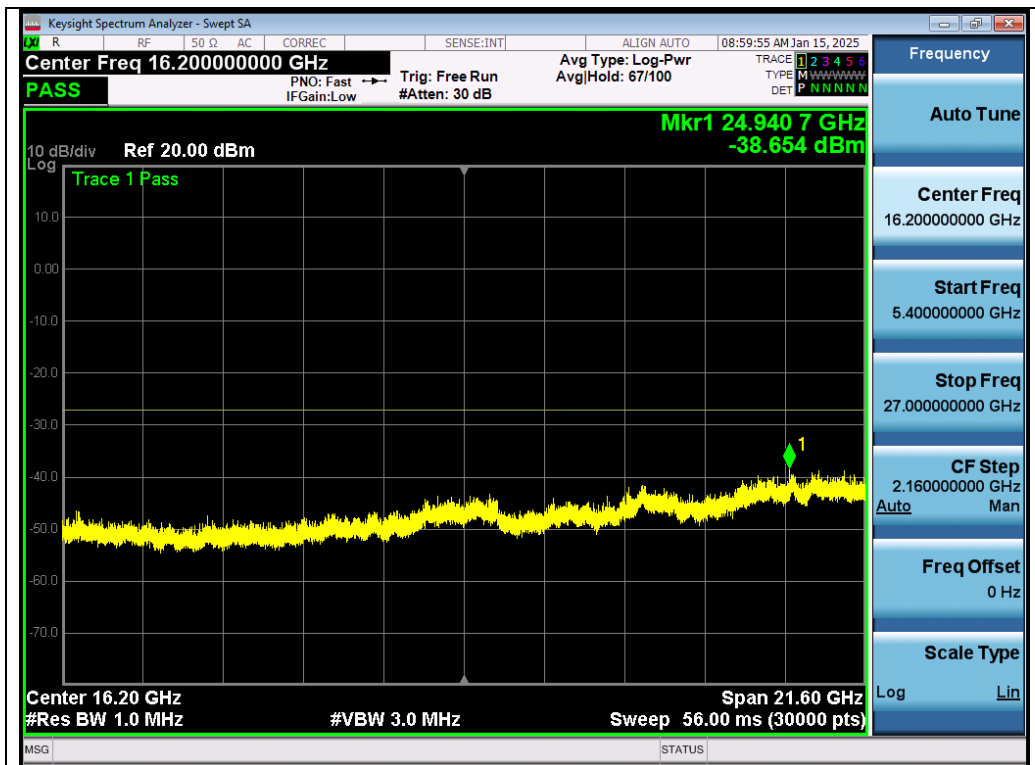


Test_Graph_802.11a_Chain B_5320_6Mbps_Frequency Band 2

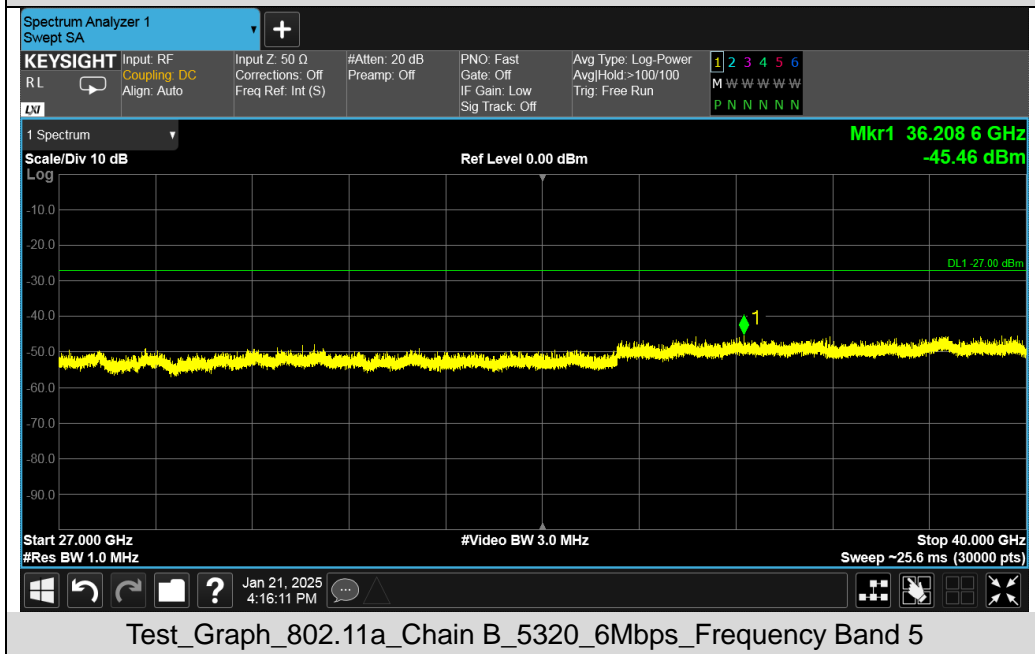


Test_Graph_802.11a_Chain B_5320_6Mbps_Frequency Band 3

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Test_Graph_802.11a_Chain B_5320_6Mbps_Frequency Band 4



Test_Graph_802.11a_Chain B_5320_6Mbps_Frequency Band 5

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