

Appendix--5.2G

HT260106014-PD1317-FCC-5.2GWIFI

FCC_5.2G_WIFI (Part15.407) Test Data

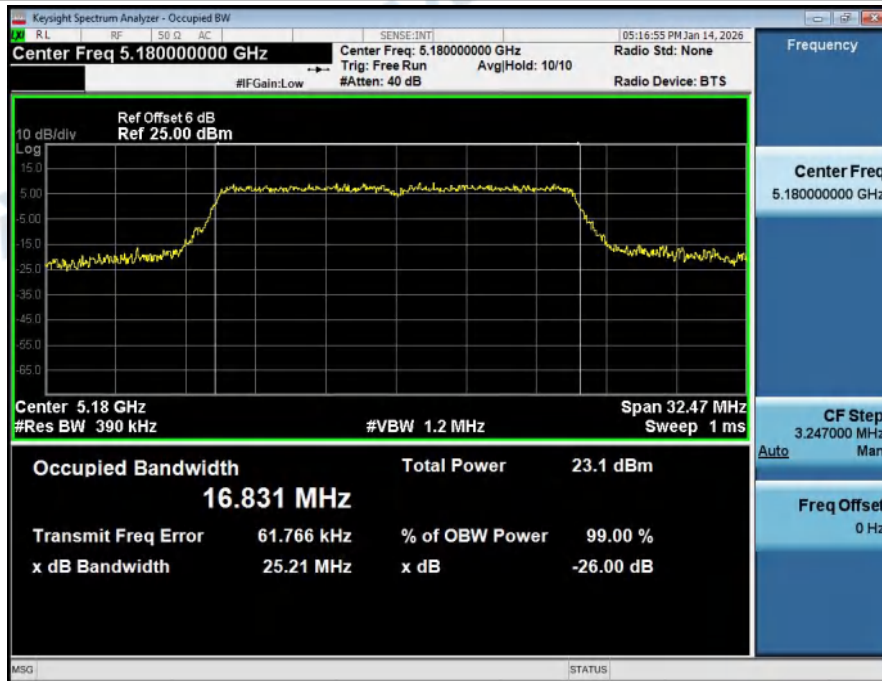
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	25.21	16.50
NVNT	ANT1	802.11a	5200.00	24.22	16.48
NVNT	ANT1	802.11a	5240.00	26.58	16.51
NVNT	ANT1	802.11n(HT20)	5180.00	19.17	17.51
NVNT	ANT1	802.11n(HT20)	5200.00	31.39	17.64
NVNT	ANT1	802.11n(HT20)	5240.00	29.63	17.64
NVNT	ANT1	802.11ac(VHT20)	5180.00	32.89	17.66
NVNT	ANT1	802.11ac(VHT20)	5200.00	31.73	17.65
NVNT	ANT1	802.11ac(VHT20)	5240.00	30.97	17.67
NVNT	ANT1	802.11n(HT40)	5190.00	57.90	36.27
NVNT	ANT1	802.11n(HT40)	5230.00	51.08	36.17
NVNT	ANT1	802.11ac(VHT40)	5190.00	70.37	36.23
NVNT	ANT1	802.11ac(VHT40)	5230.00	53.22	36.14
NVNT	ANT1	802.11ac(VHT80)	5210.00	94.92	75.53

99%_OCB_NVNT_ANT1_802_11a_5180



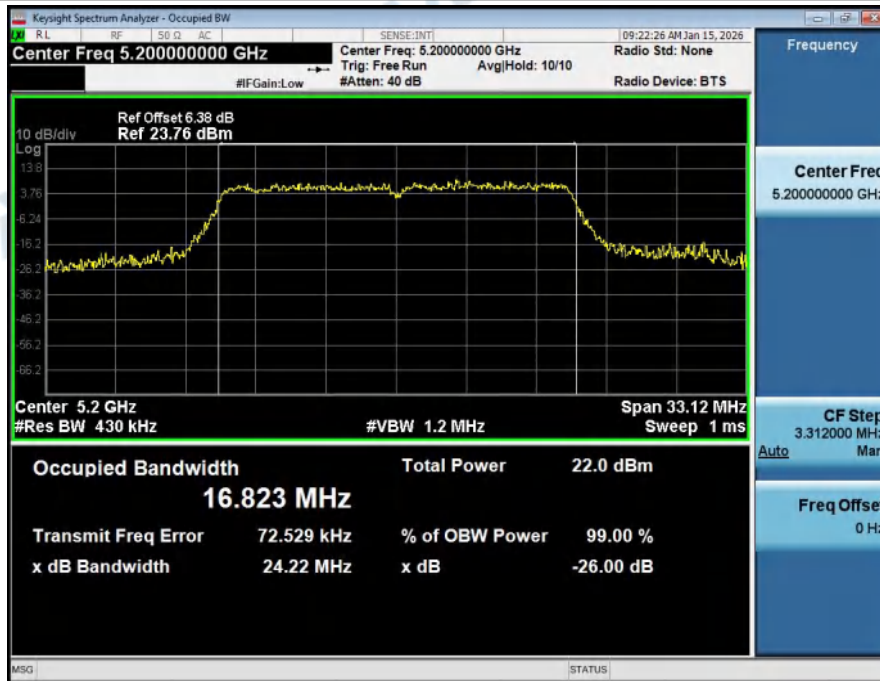
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99%_OCB_NVNT_ANT1_802_11a_5200



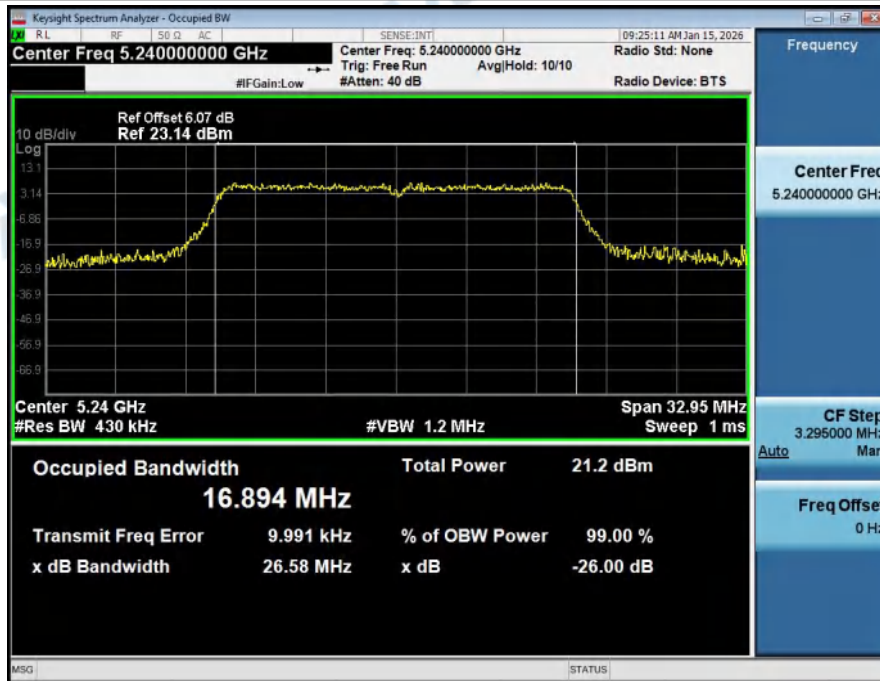
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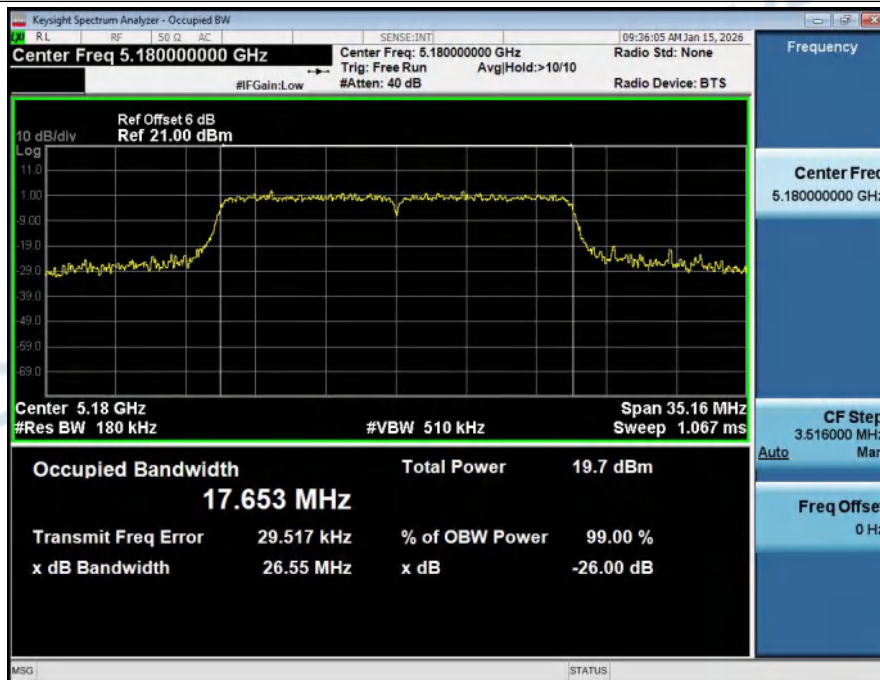
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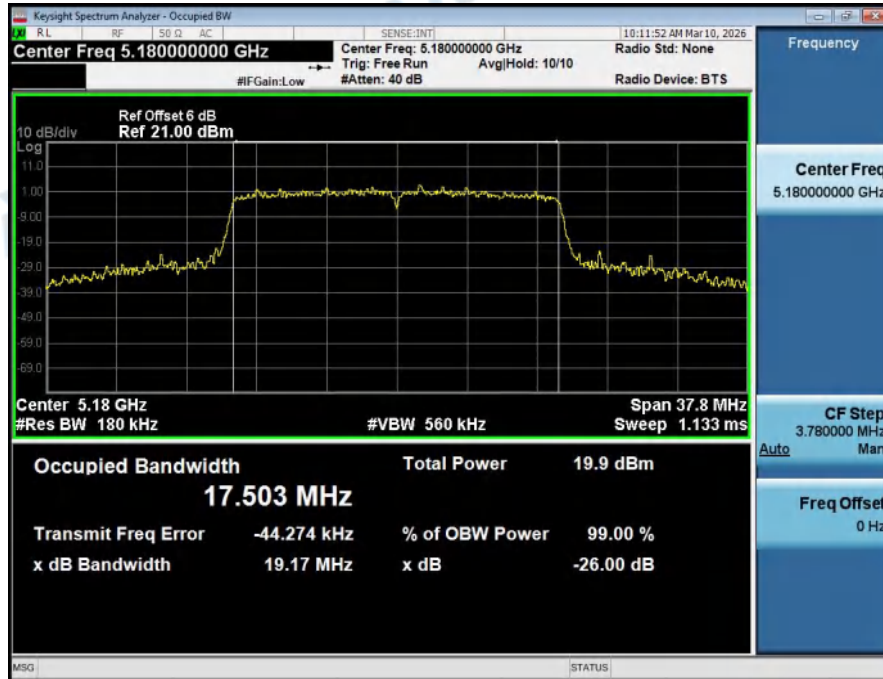
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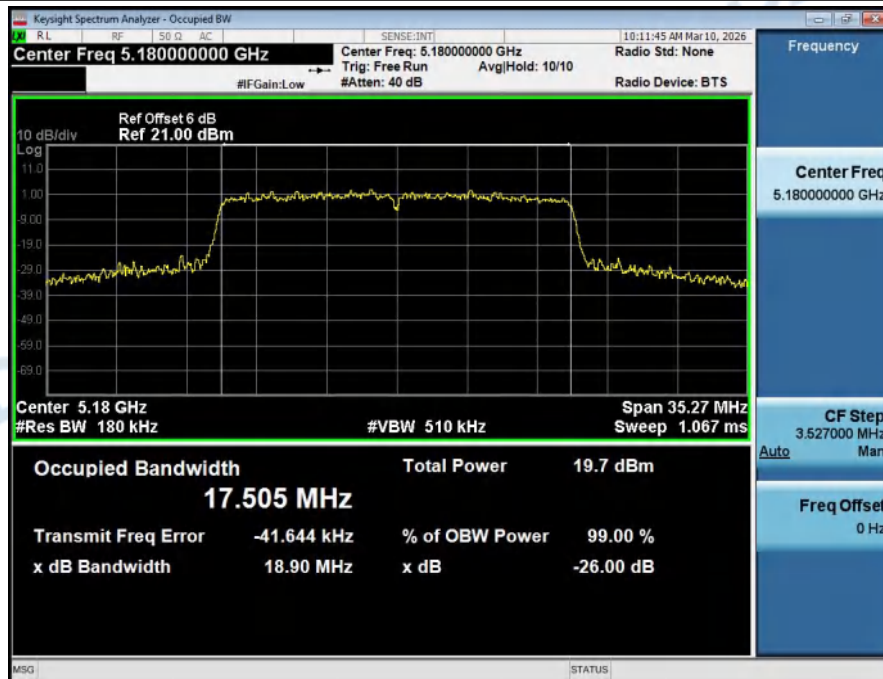
99%_OCB_NVNT_ANT1_802_11n(HT20)_5180



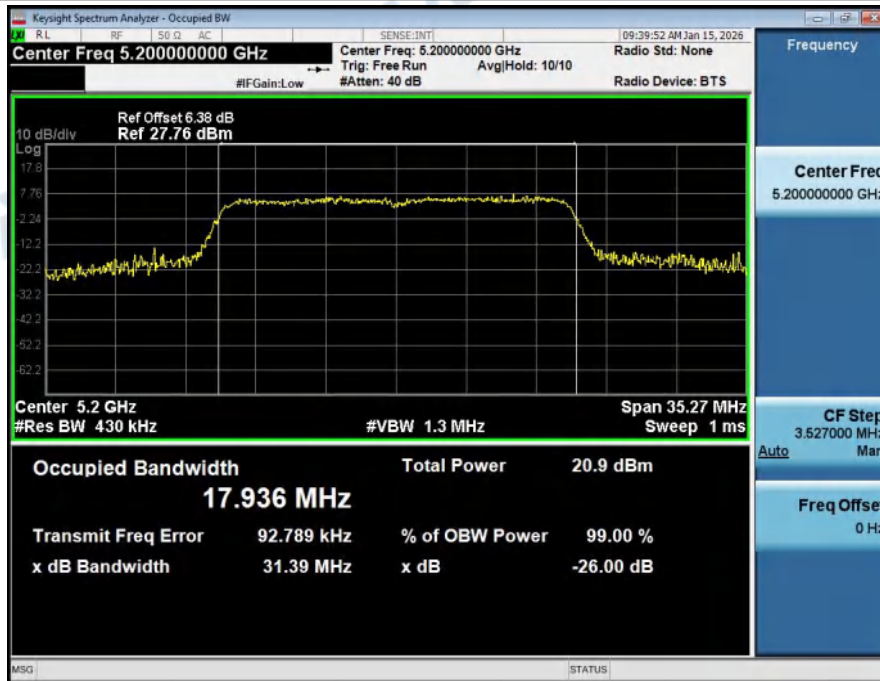
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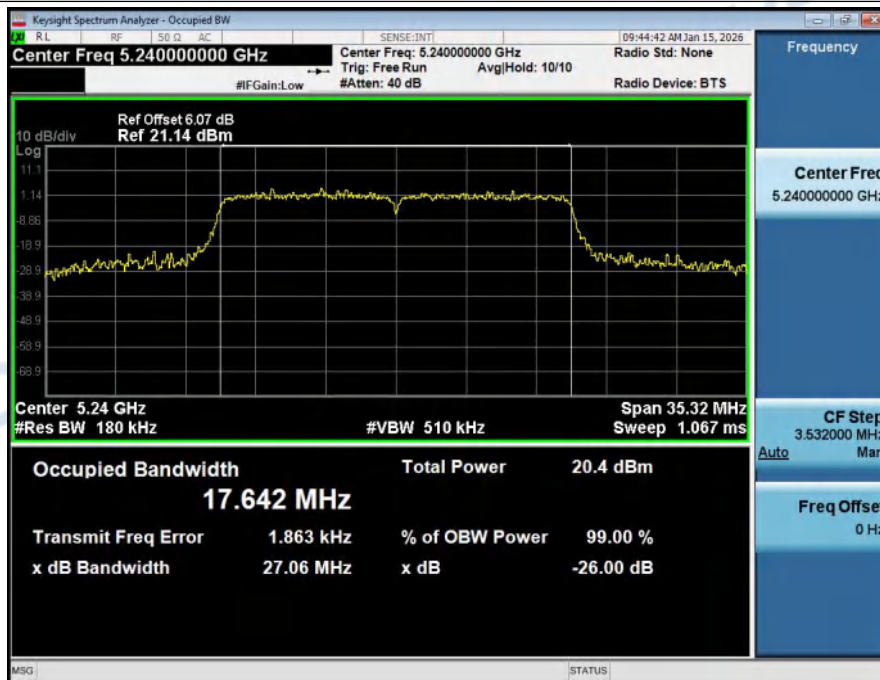
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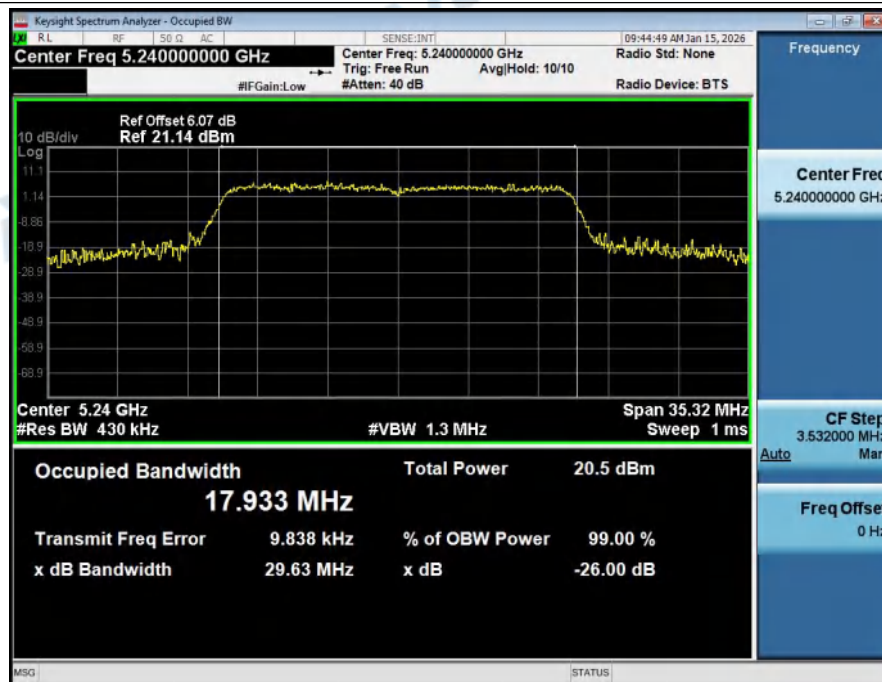
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99%_OCB_NVNT_ANT1_802_11n(HT20)_5240



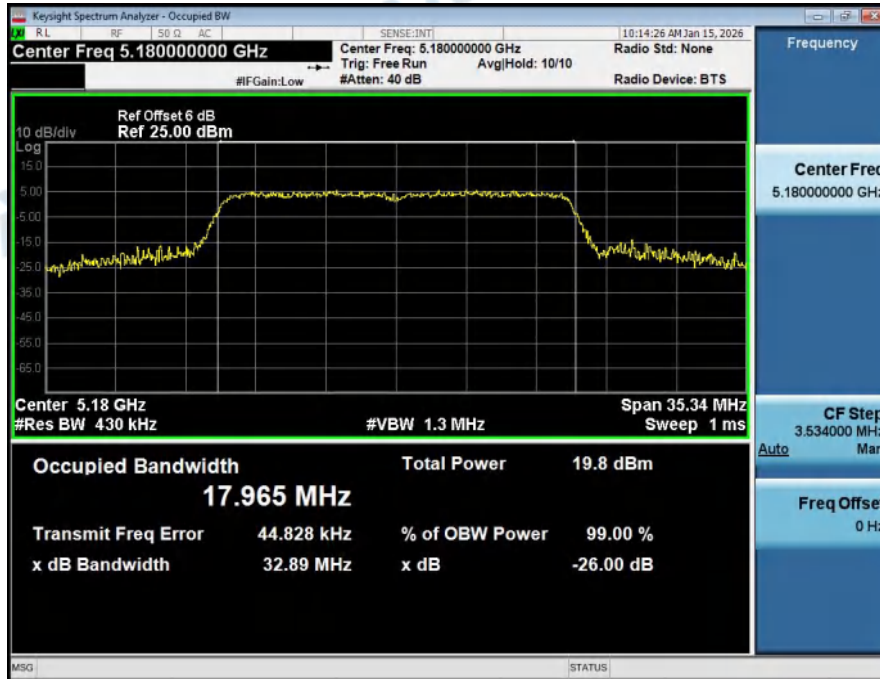
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99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5180



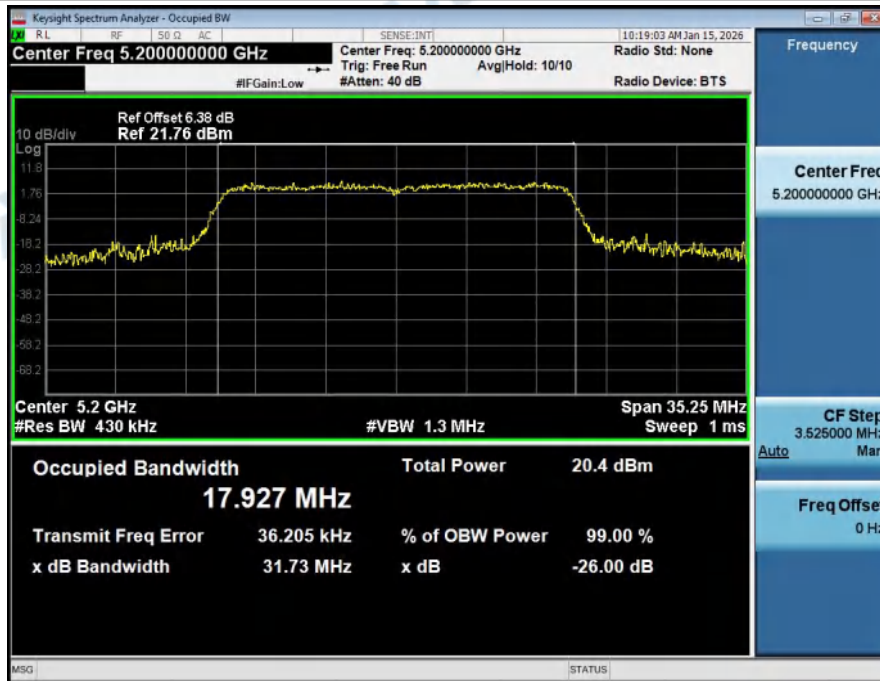
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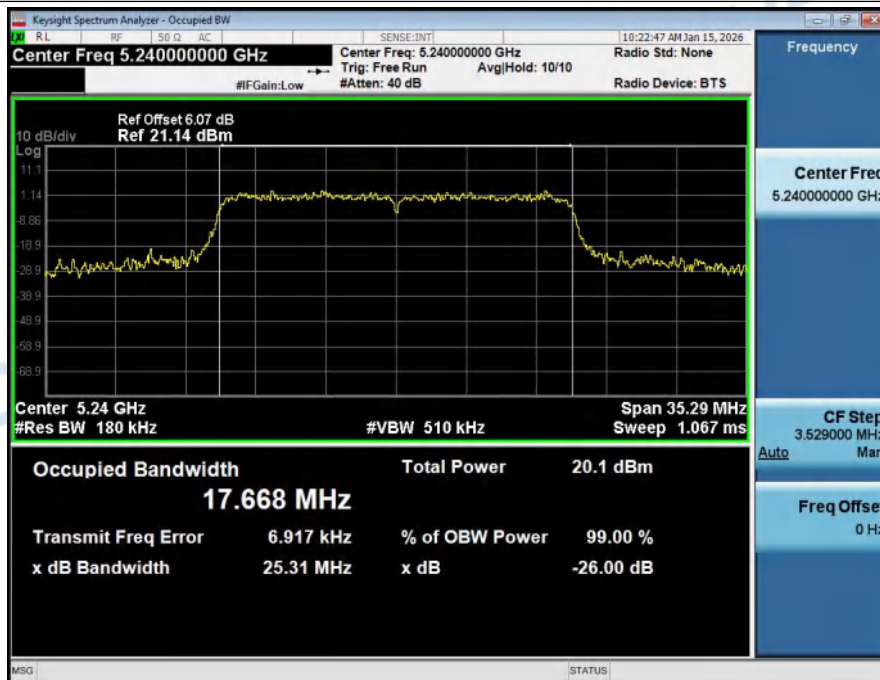
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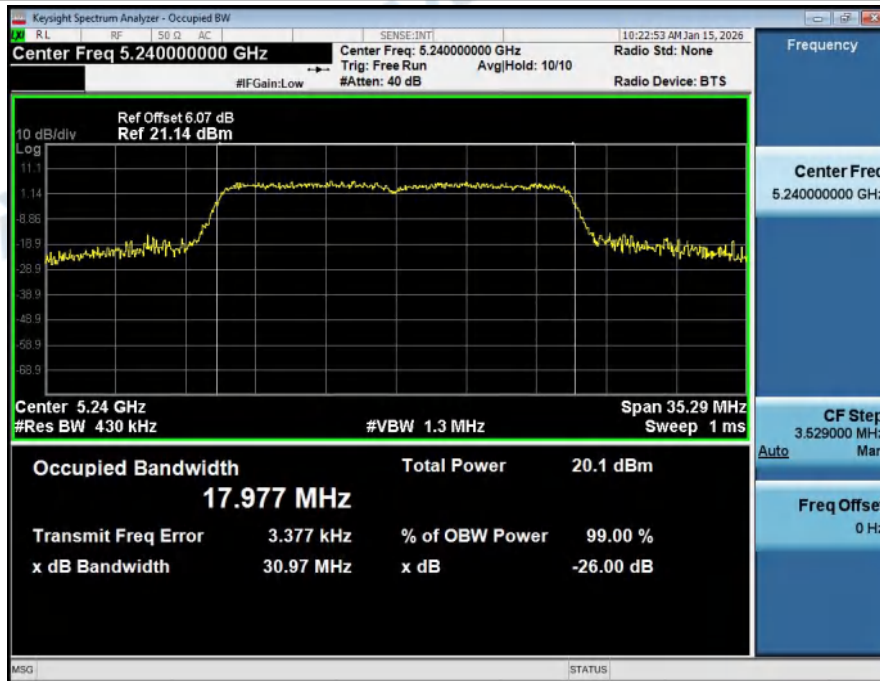
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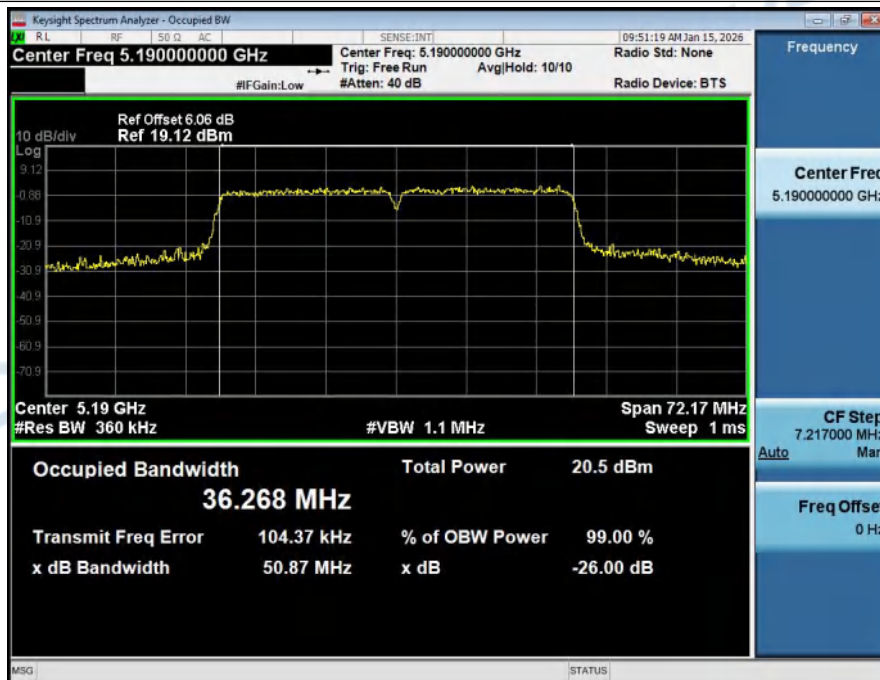
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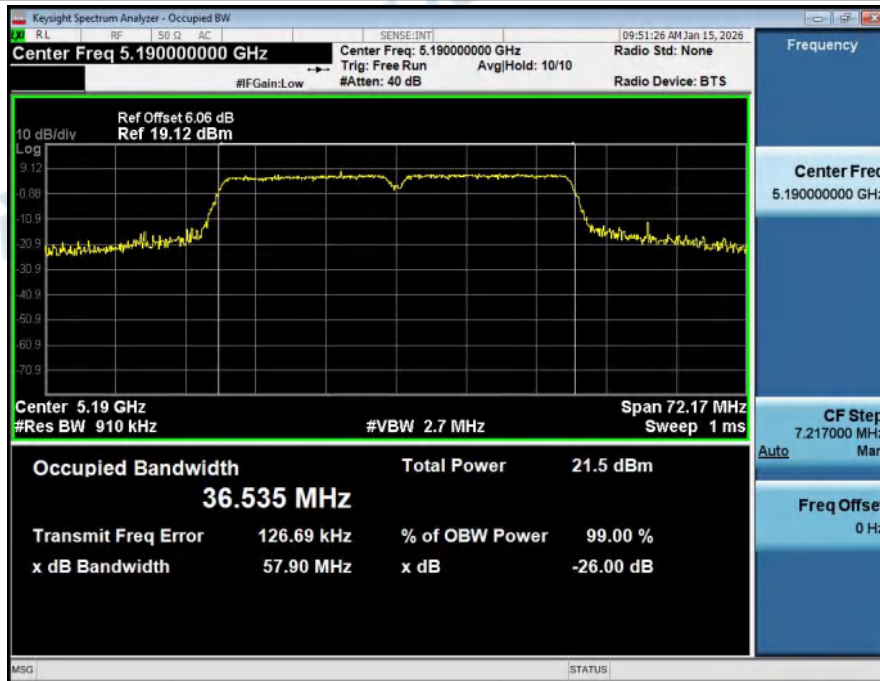
-26BW_NVNT_ANT1_802_11ac(VHT20)_5240



99%_OCB_NVNT_ANT1_802_11n(HT40)_5190



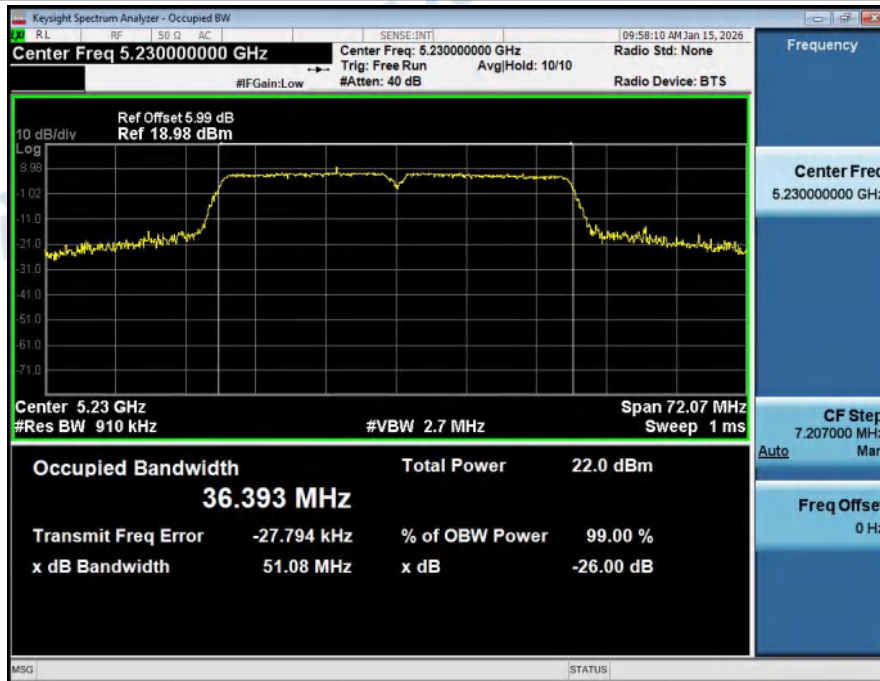
-26BW_NVNT_ANT1_802_11n(HT40)_5190



99%_OCB_NVNT_ANT1_802_11n(HT40)_5230



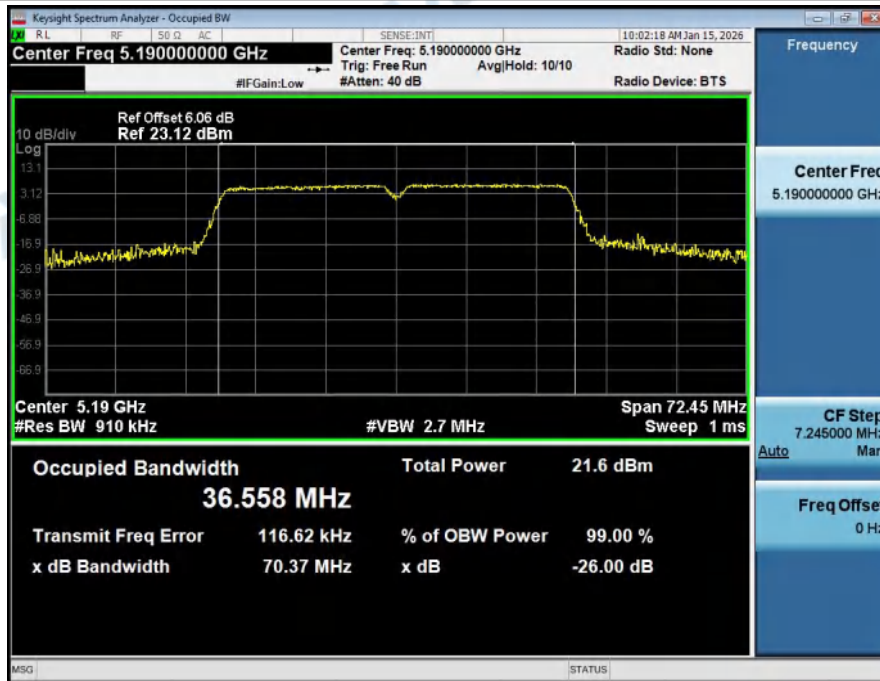
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99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5190



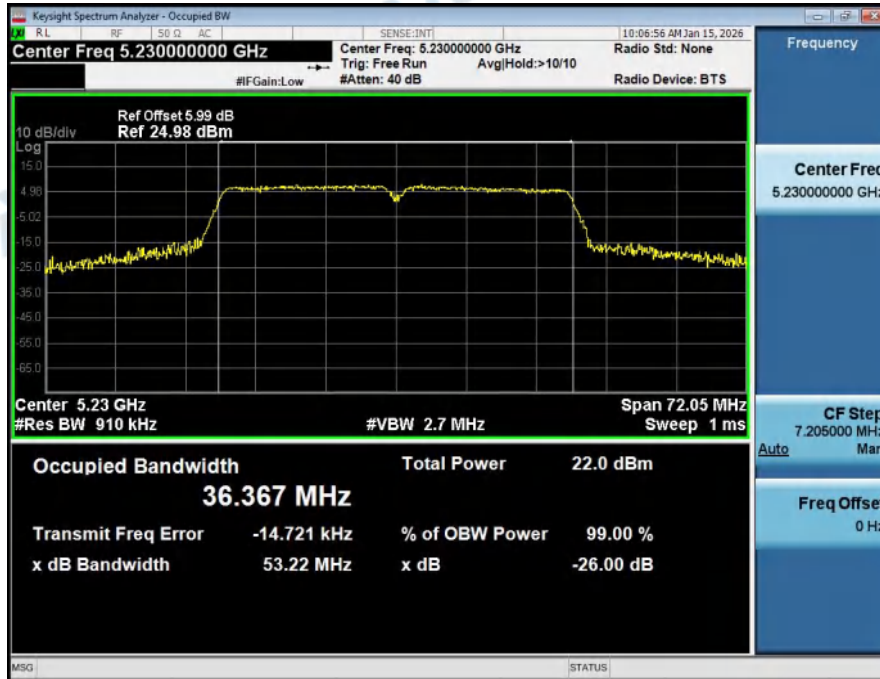
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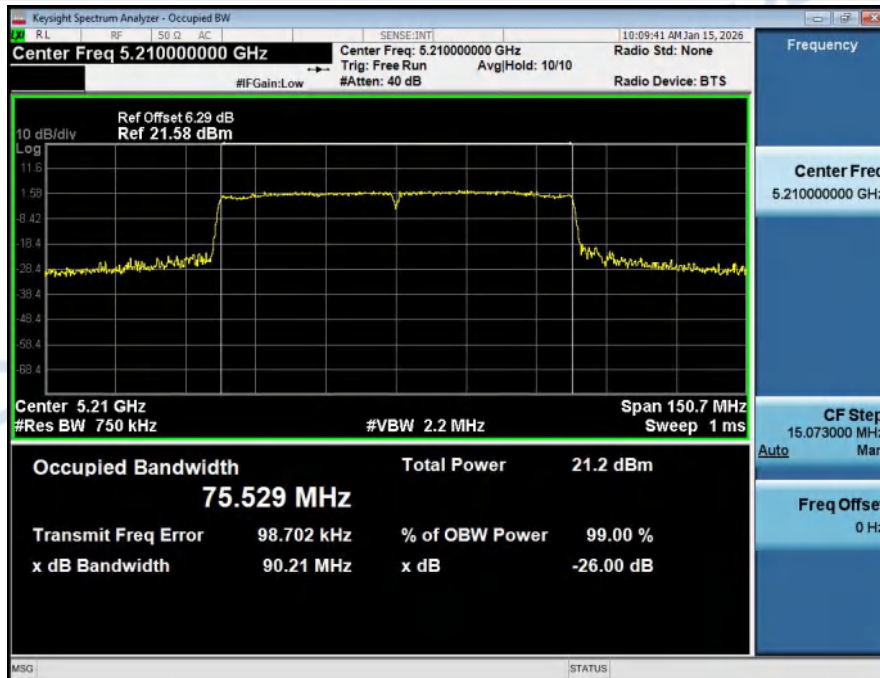
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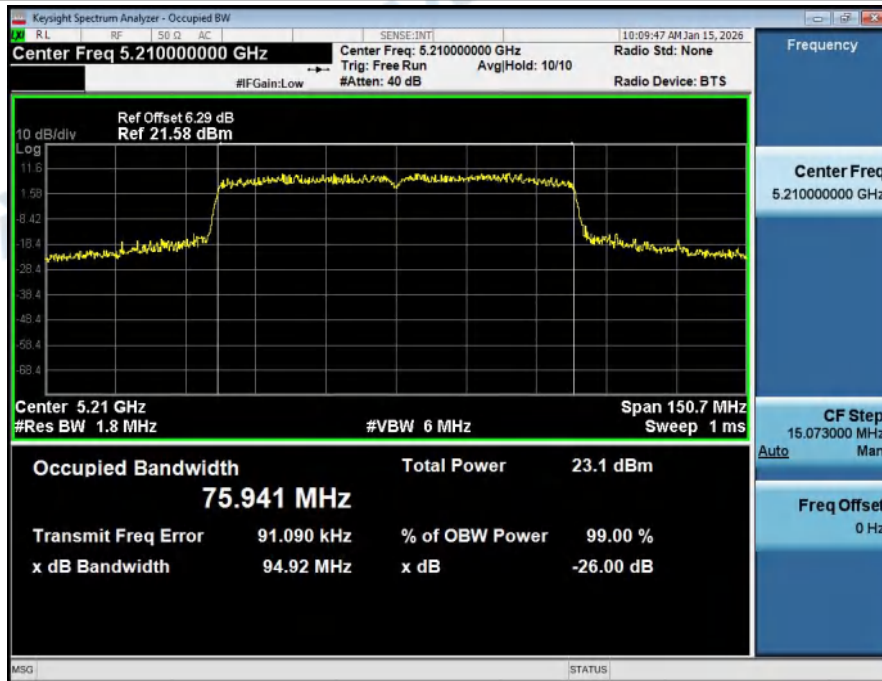
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99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5210



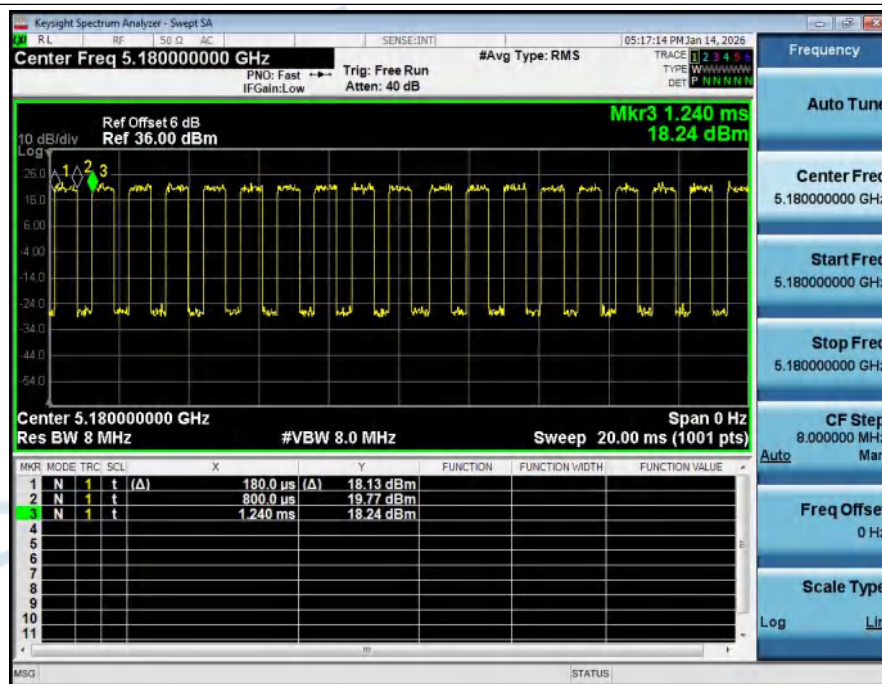
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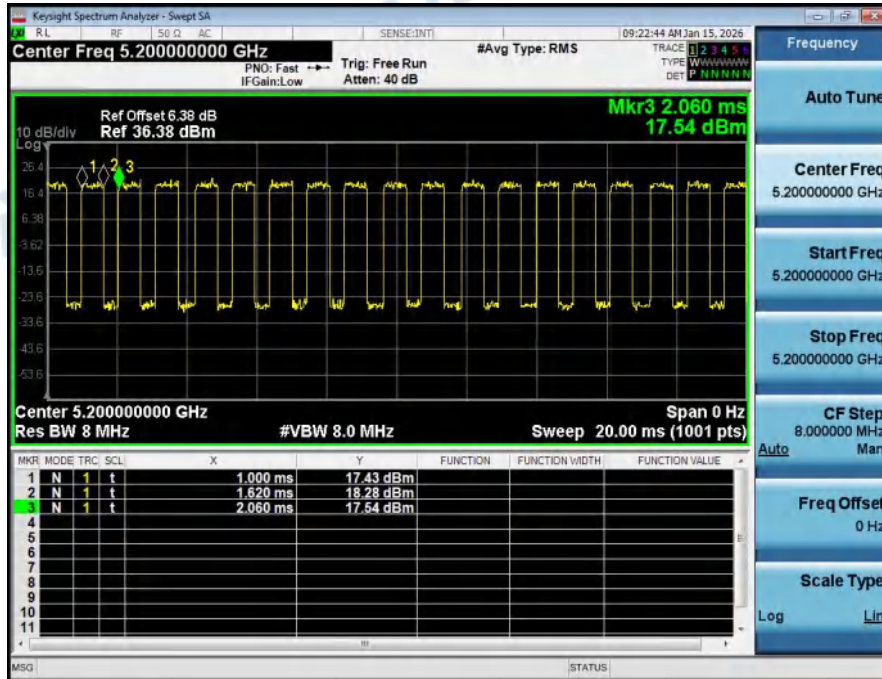
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	58.49	2.33
NVNT	ANT1	802.11a	5200.00	58.49	2.33
NVNT	ANT1	802.11a	5240.00	57.41	2.41
NVNT	ANT1	802.11n(HT20)	5180.00	92.03	0.36
NVNT	ANT1	802.11n(HT20)	5200.00	91.04	0.41
NVNT	ANT1	802.11n(HT20)	5240.00	91.70	0.38
NVNT	ANT1	802.11ac(VHT20)	5180.00	92.06	0.36
NVNT	ANT1	802.11ac(VHT20)	5200.00	91.37	0.39
NVNT	ANT1	802.11ac(VHT20)	5240.00	92.03	0.36
NVNT	ANT1	802.11n(HT40)	5190.00	85.52	0.68
NVNT	ANT1	802.11n(HT40)	5230.00	85.52	0.68
NVNT	ANT1	802.11ac(VHT40)	5190.00	84.83	0.71
NVNT	ANT1	802.11ac(VHT40)	5230.00	84.93	0.71
NVNT	ANT1	802.11ac(VHT80)	5210.00	72.50	1.40

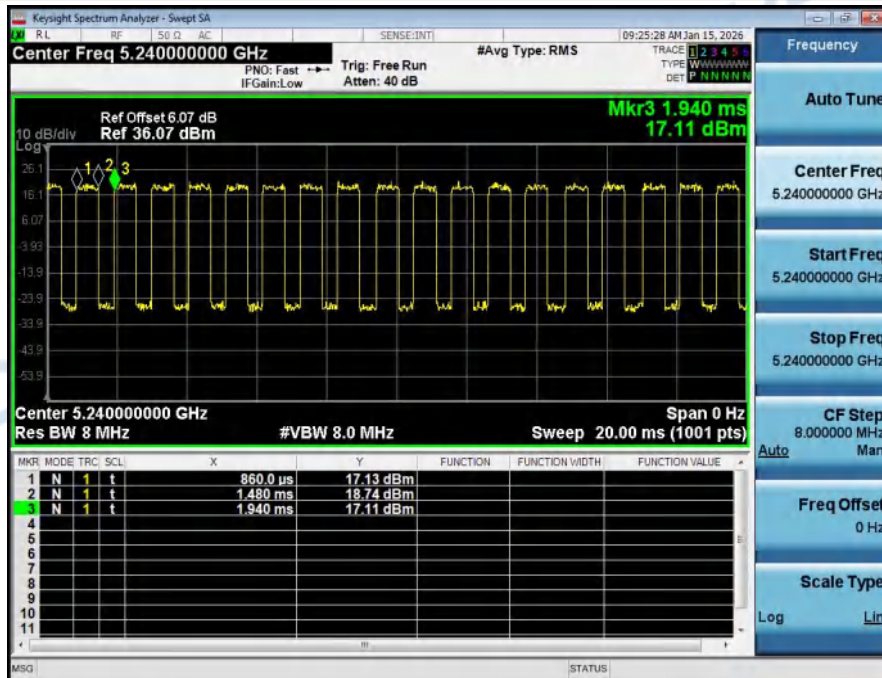
Duty_Cycle_NVNT_ANT1_802_11a_5180



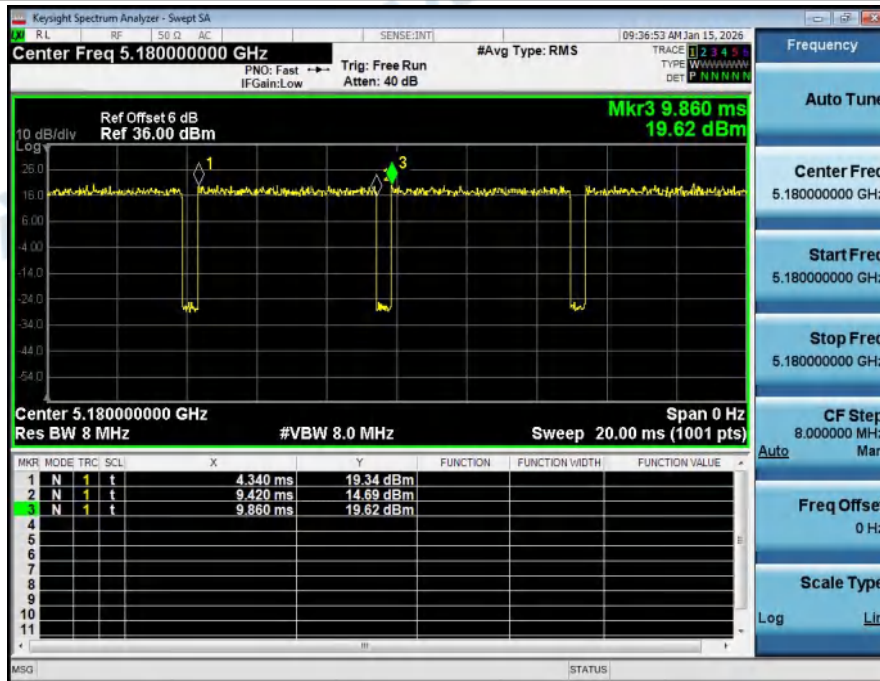
Duty_Cycle_NVNT_ANT1_802_11a_5200



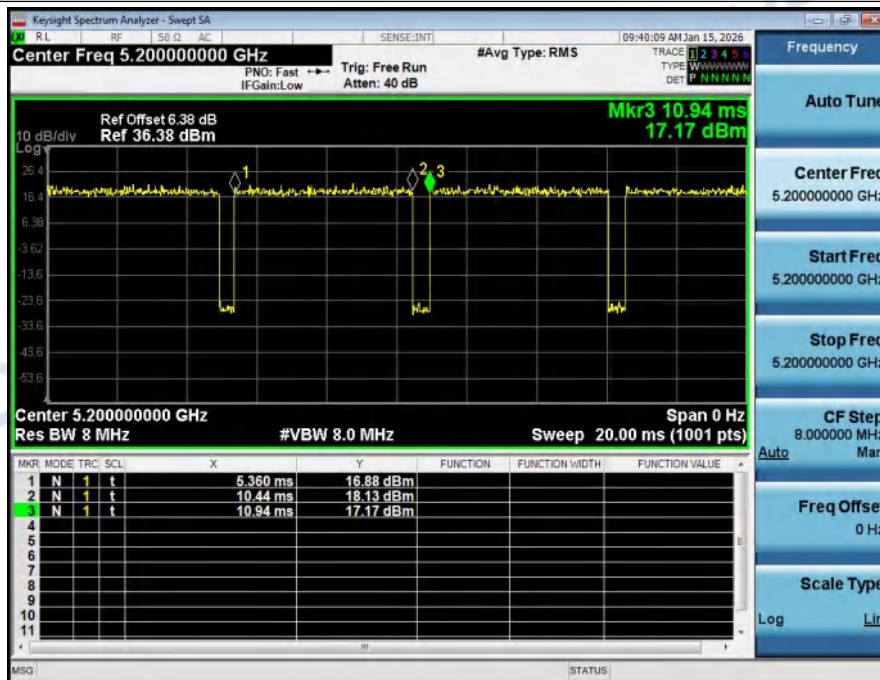
Duty_Cycle_NVNT_ANT1_802_11a_5240



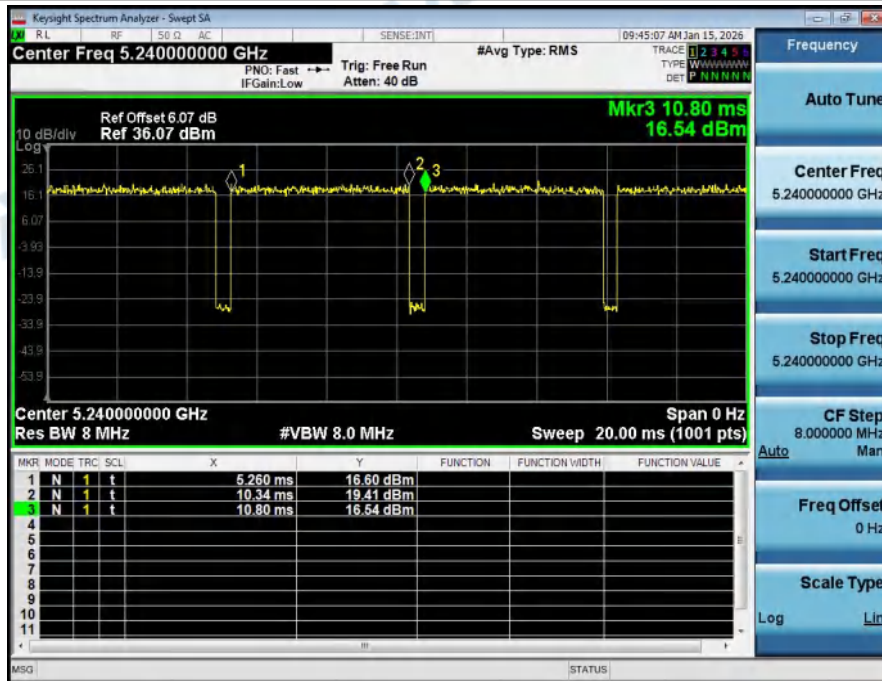
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



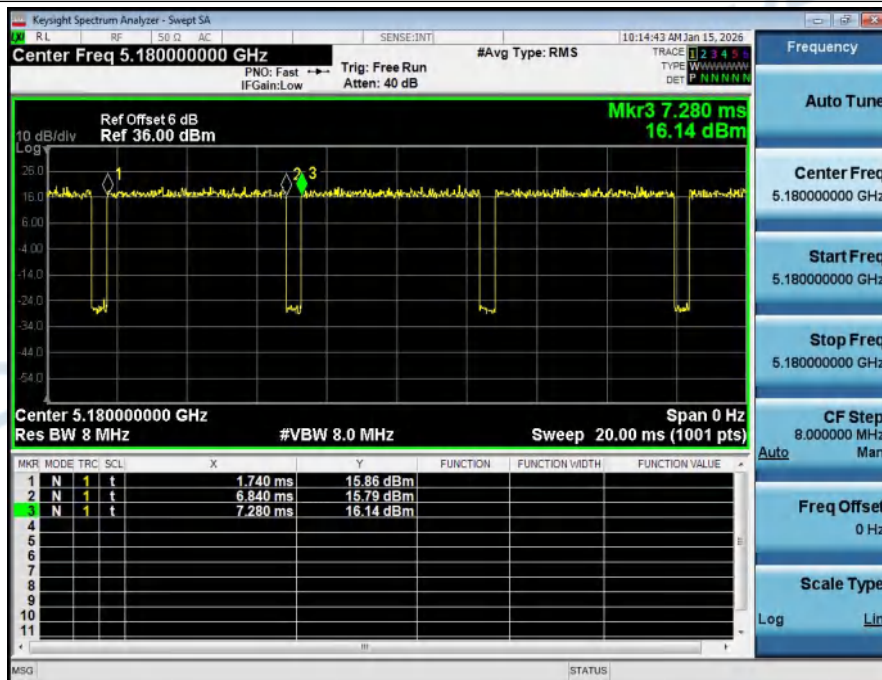
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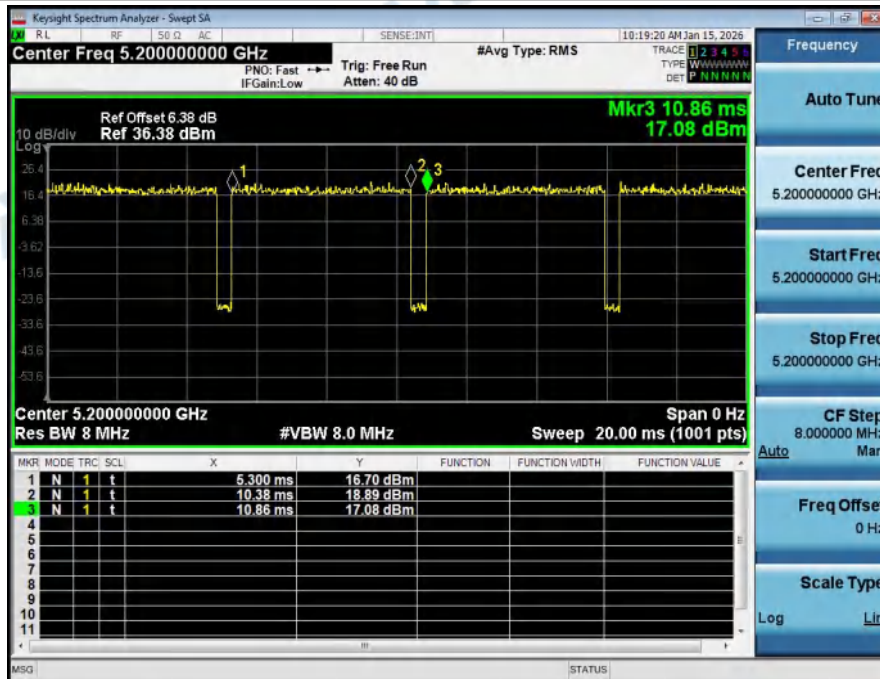
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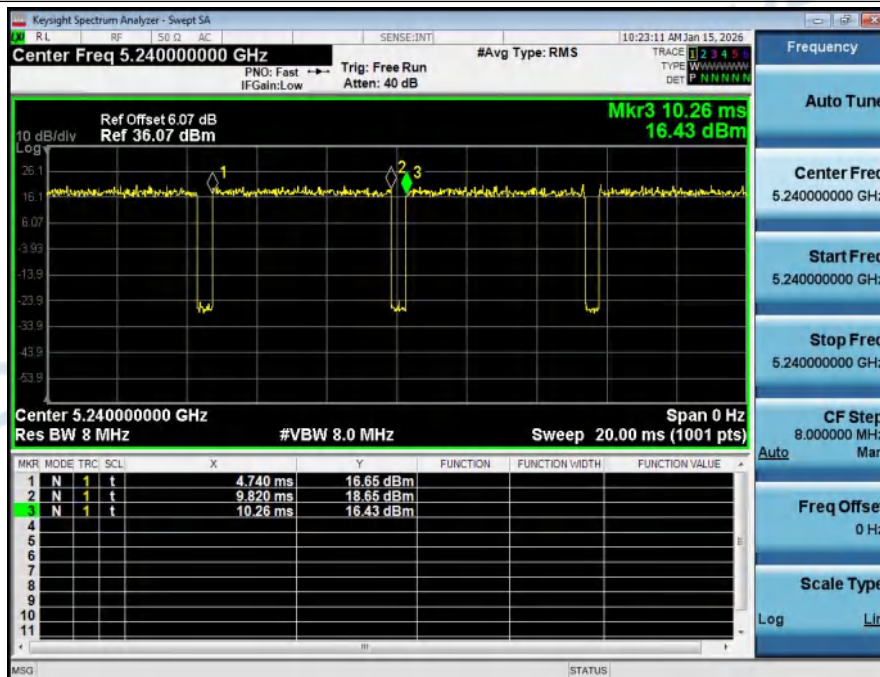
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5180



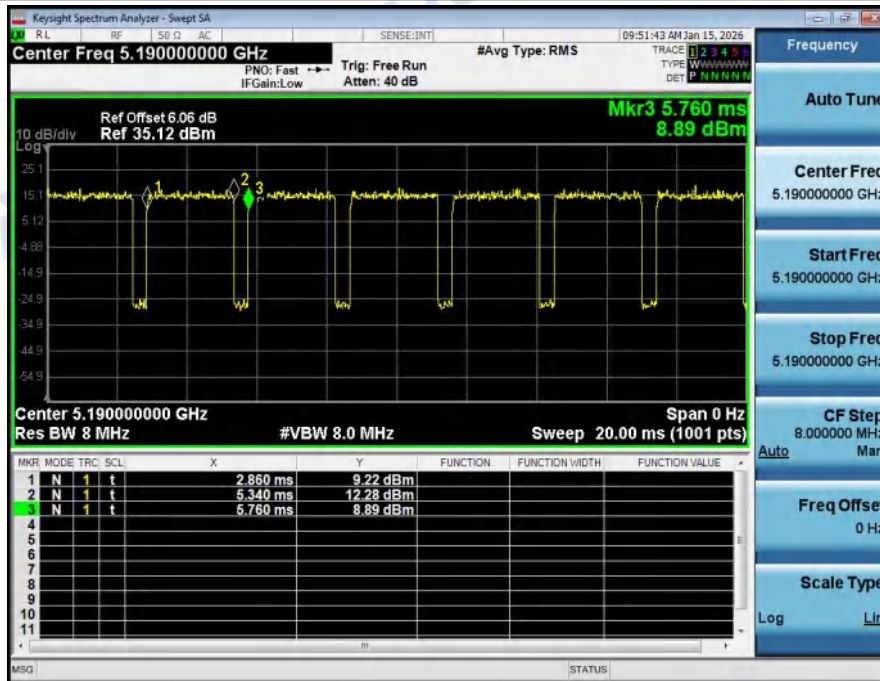
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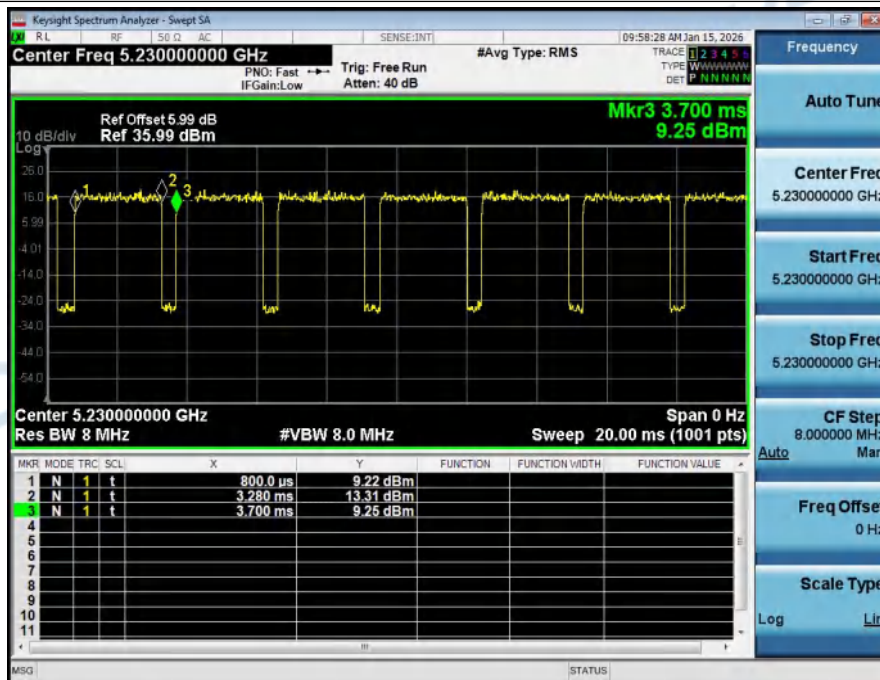
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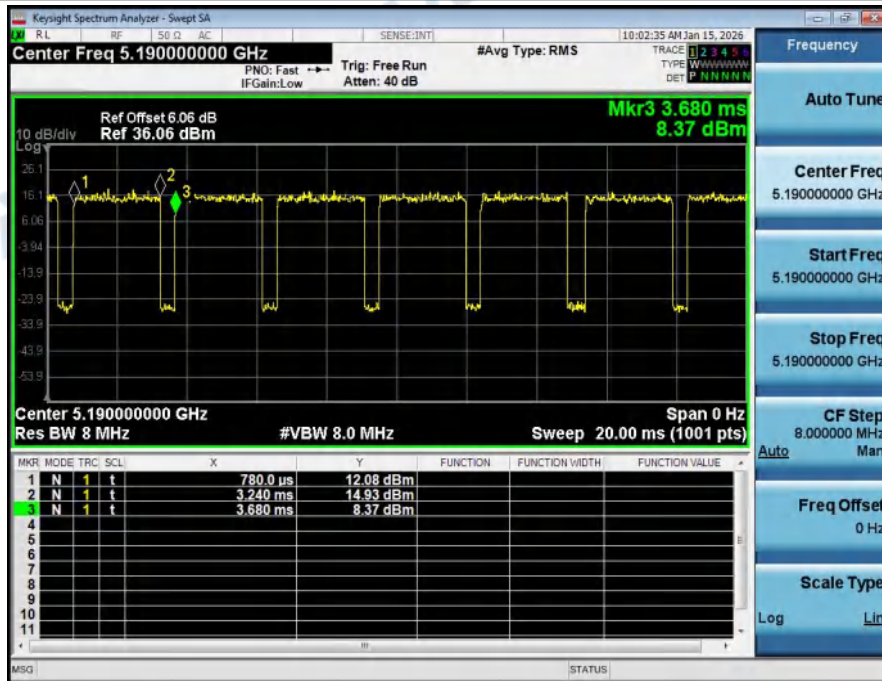
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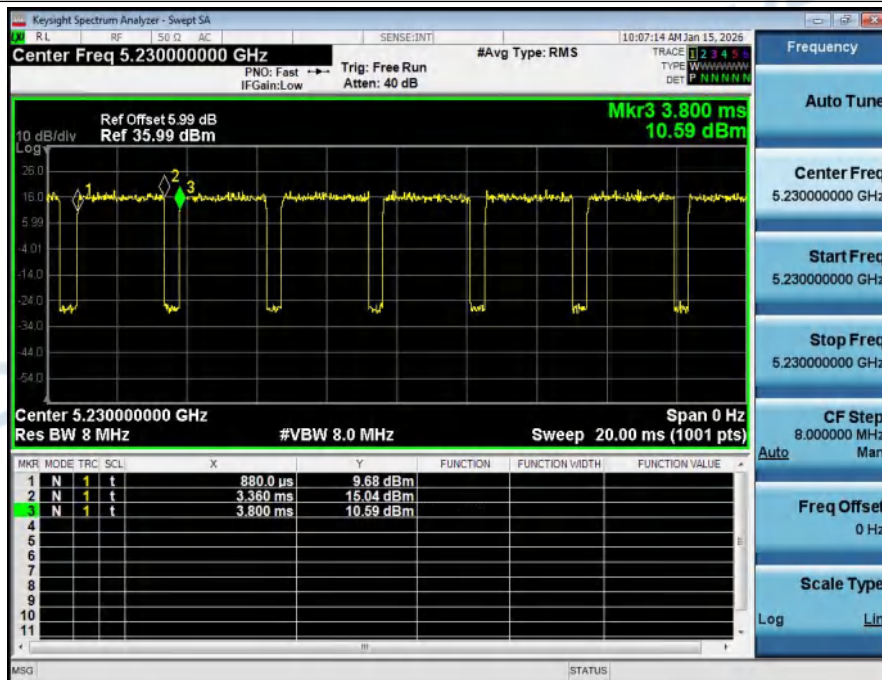
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5230



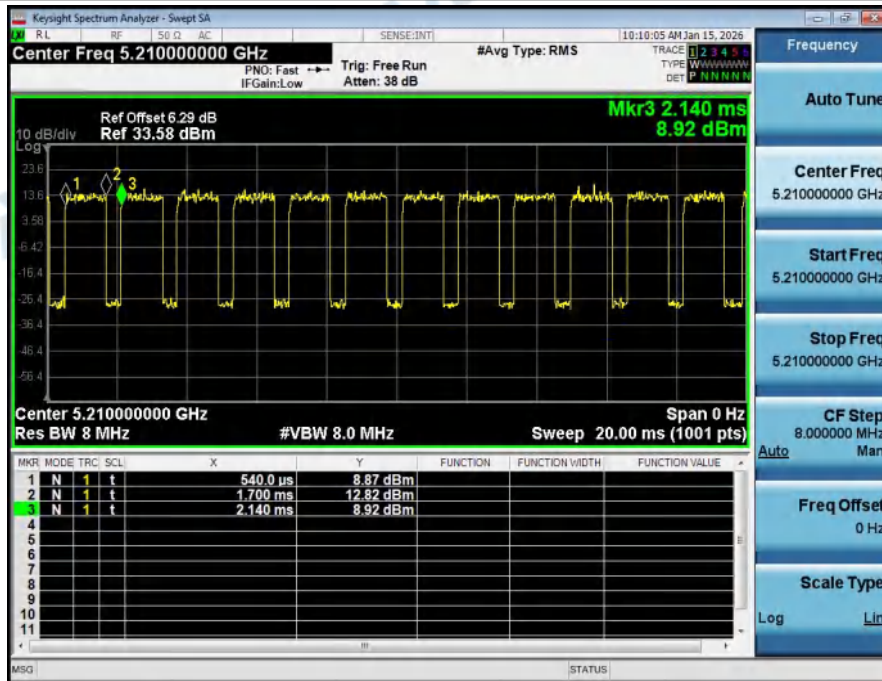
Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5190



Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5230



Duty_Cycle_NVNT_ANT1_802_11ac(VHT80)_5210



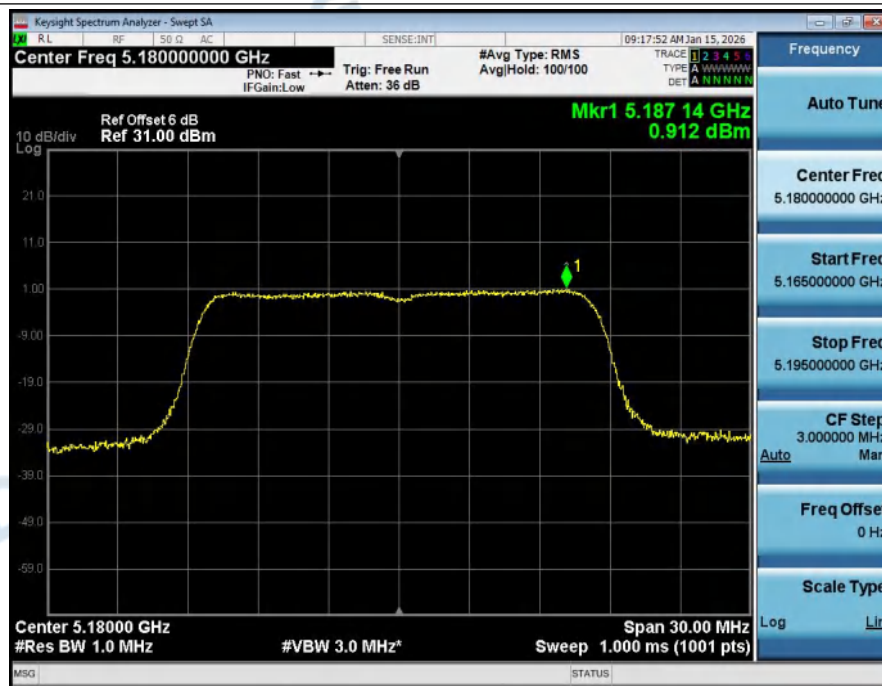
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	11.93	2.33	14.26	24	Pass
NVNT	ANT1	802.11a	5200.00	12.47	2.33	14.80	24	Pass
NVNT	ANT1	802.11a	5240.00	12.18	2.41	14.59	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	13.18	0.36	13.54	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	14.19	0.41	14.60	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	13.84	0.38	14.22	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	13.95	0.36	14.31	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	14.09	0.39	14.48	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	13.36	0.36	13.72	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	13.45	0.68	14.13	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	13.66	0.68	14.34	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	13.43	0.71	14.14	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	13.79	0.71	14.50	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	13.01	1.40	14.41	24	Pass

4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	0.91	2.33	3.24	11	Pass
NVNT	ANT1	802.11a	5200.00	2.04	2.33	4.38	11	Pass
NVNT	ANT1	802.11a	5240.00	1.37	2.41	3.78	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	1.68	0.36	2.04	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	2.77	0.41	3.18	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	2.09	0.38	2.47	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	1.55	0.36	1.91	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	2.69	0.39	3.08	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	2.21	0.36	2.57	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-0.32	0.68	0.36	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-0.14	0.68	0.55	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-0.71	0.71	0.00	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-0.02	0.71	0.69	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-4.04	1.40	-2.64	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5180



Power_Spectral_Density_NVNT_ANT1_802_11a_5200



Power_Spectral_Density_NVNT_ANT1_802_11a_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230



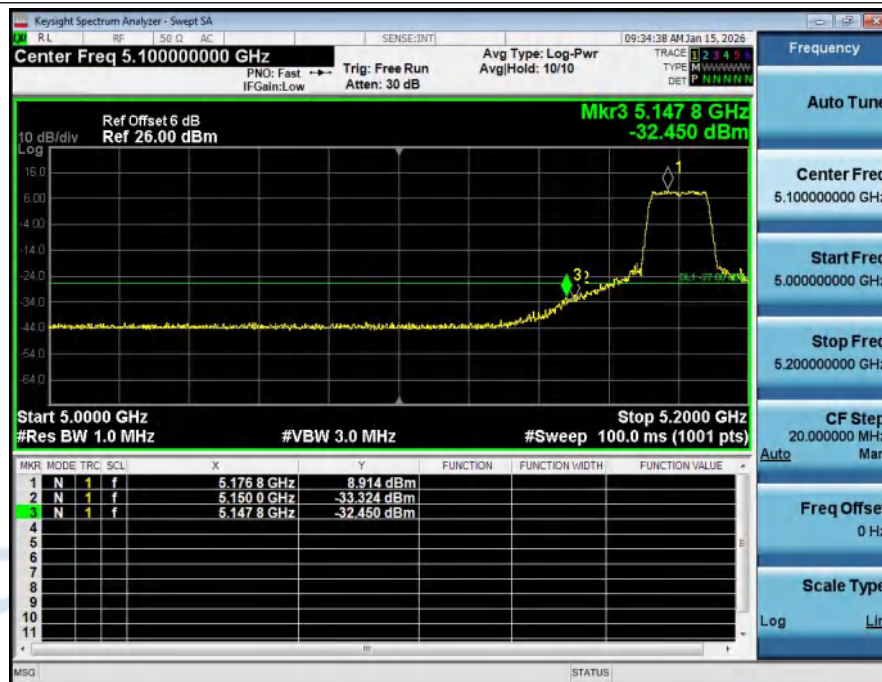
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210



5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5147.80	-32.45	-27	Pass
NVNT	ANT1	802.11a	5240.00	5362.40	-41.56	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5148.80	-27.23	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5368.00	-41.20	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5148.60	-28.98	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5387.80	-41.07	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5147.84	-28.14	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5362.67	-41.17	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5149.73	-28.23	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5351.75	-40.77	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5145.32	-29.11	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5352.80	-39.25	-27	Pass

Bandedge_NVNT_ANT1_802_11a_5180



Bandedge_NVNT_ANT1_802_11a_5240



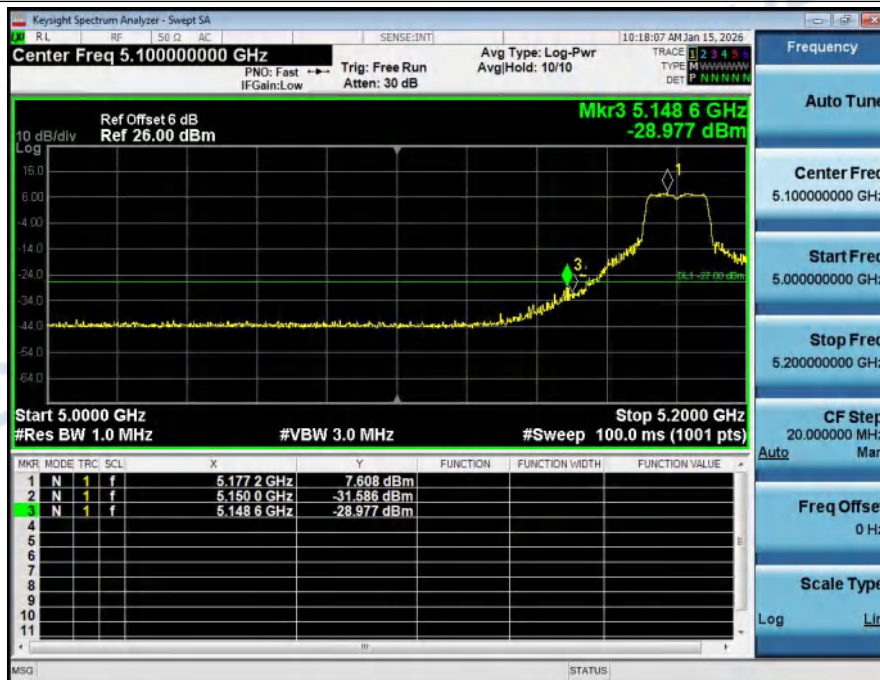
Bandedge_NVNT_ANT1_802_11n(HT20)_5180



Bandedge_NVNT_ANT1_802_11n(HT20)_5240



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5180



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



Bandedge_NVNT_ANT1_802_11n(HT40)_5190

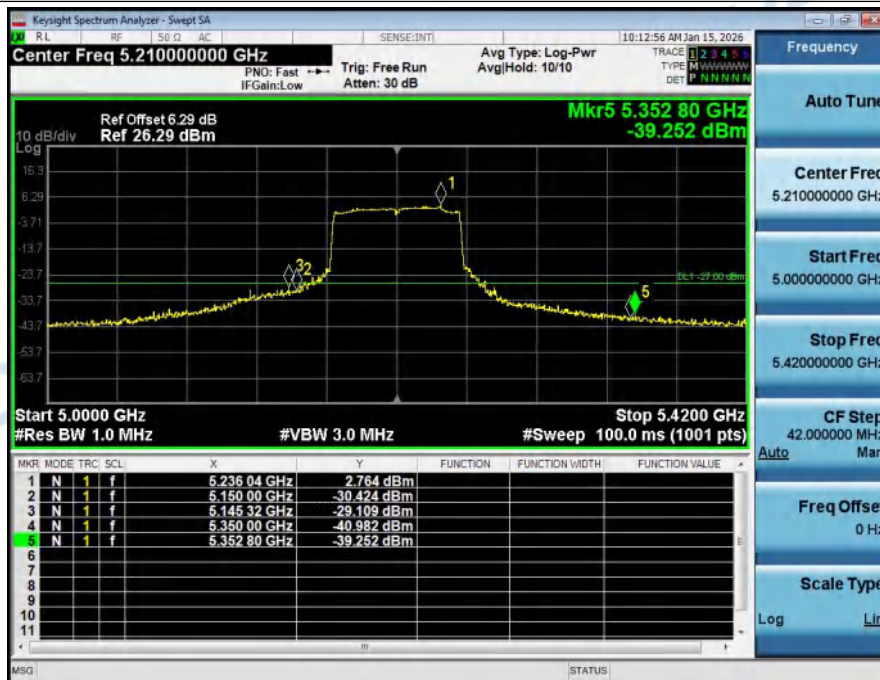




Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



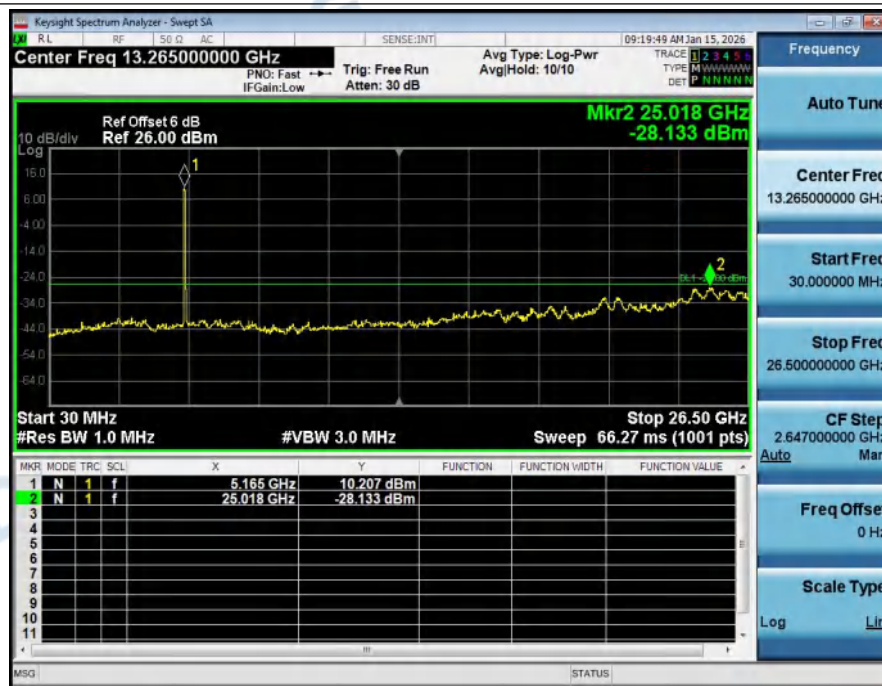
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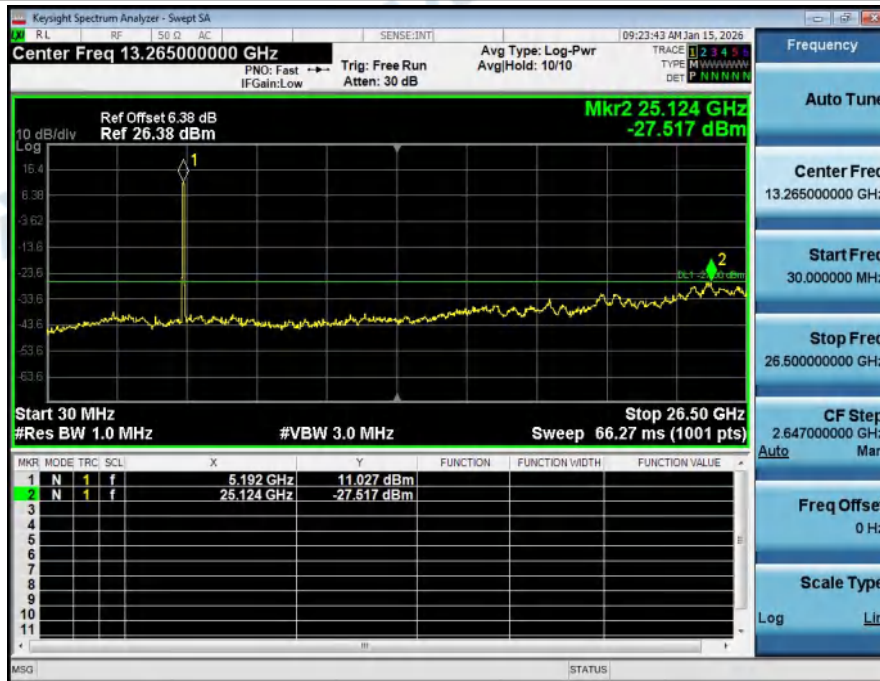
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	25017.68	-28.13	-27	Pass
NVNT	ANT1	802.11a	5200.00	25123.56	-27.52	-27	Pass
NVNT	ANT1	802.11a	5240.00	24964.74	-27.89	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	24461.81	-27.70	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	24991.21	-27.49	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	25070.62	-28.06	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25070.62	-28.04	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	25044.15	-27.71	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	24461.81	-28.60	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	25123.56	-27.54	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	25044.15	-28.03	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	25070.62	-27.98	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	25123.56	-28.41	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	25097.09	-27.77	-27	Pass

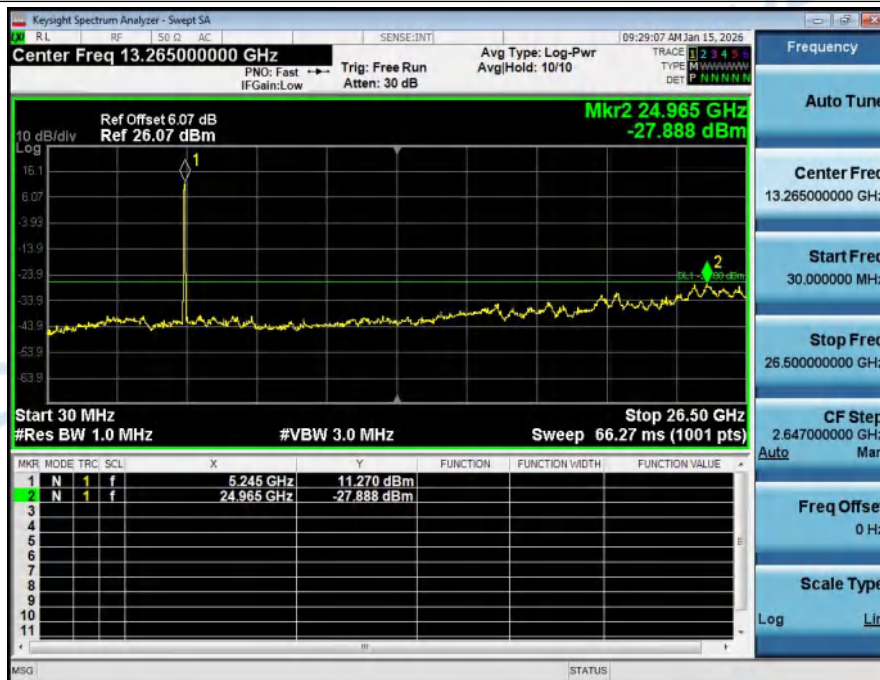
Spurious_Emission_NVNT_ANT1_802_11a_5180_20M



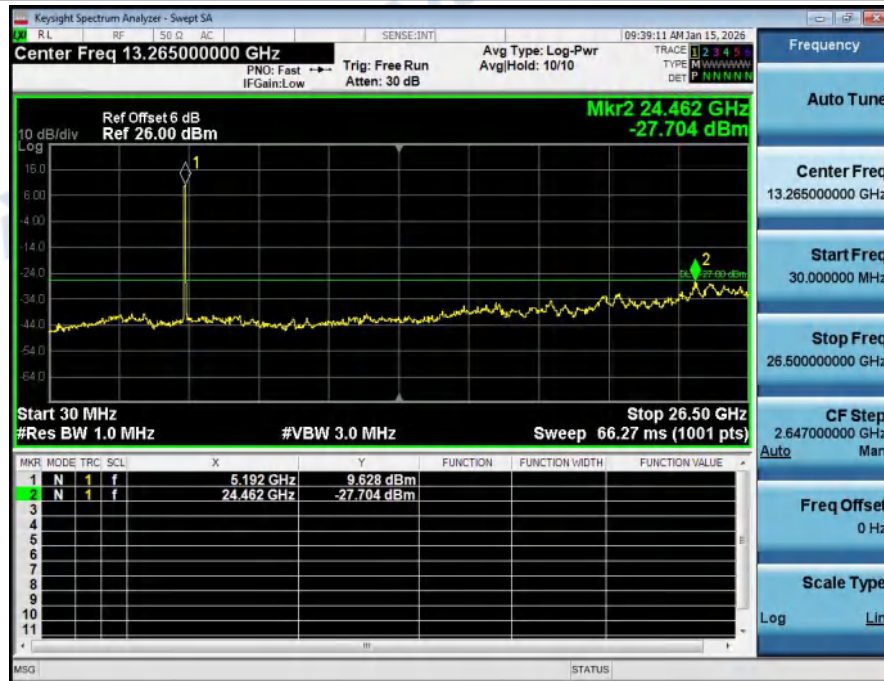
Spurious_Emission_NVNT_ANT1_802_11a_5200_20M



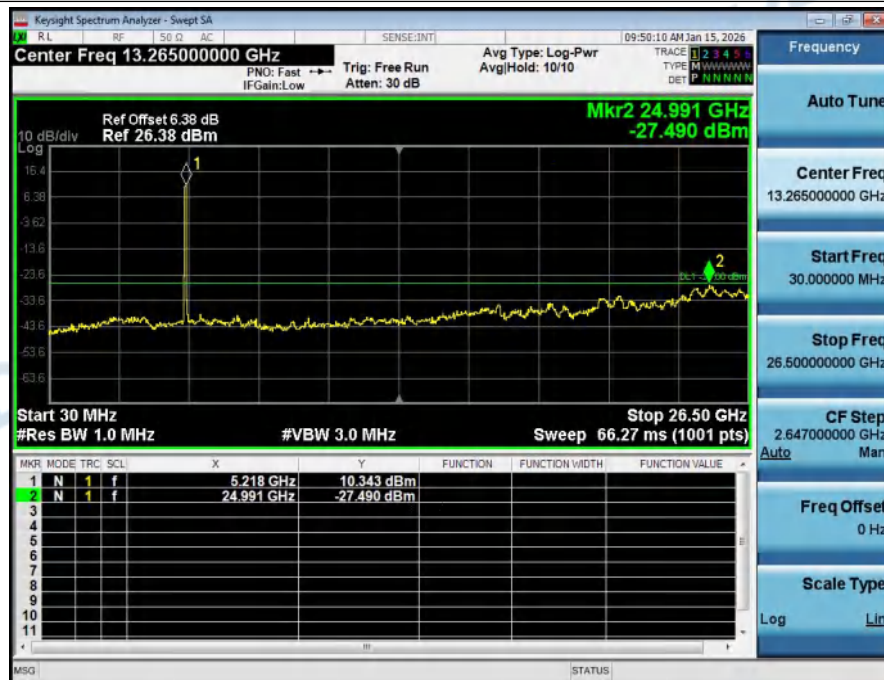
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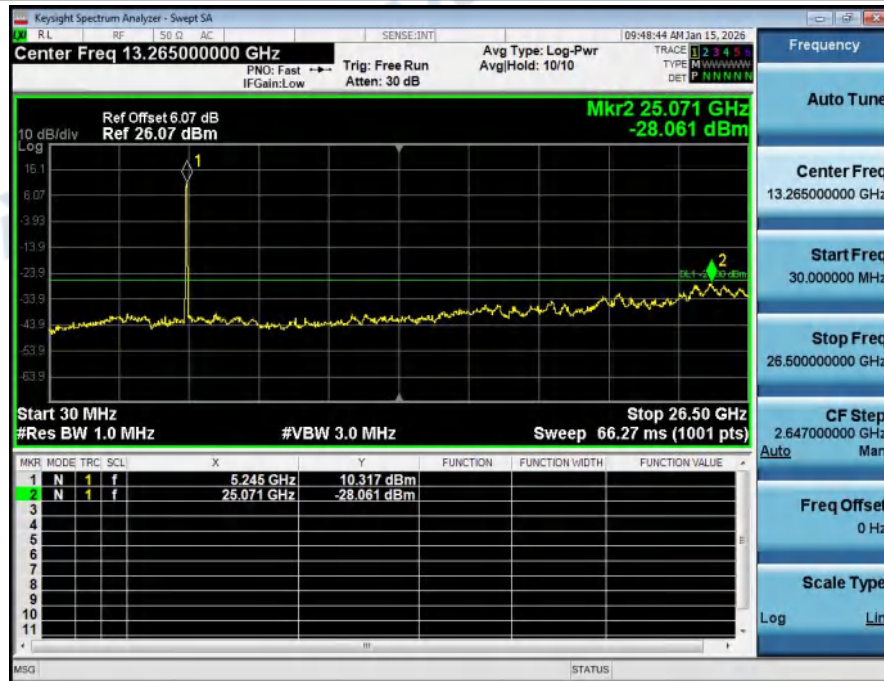
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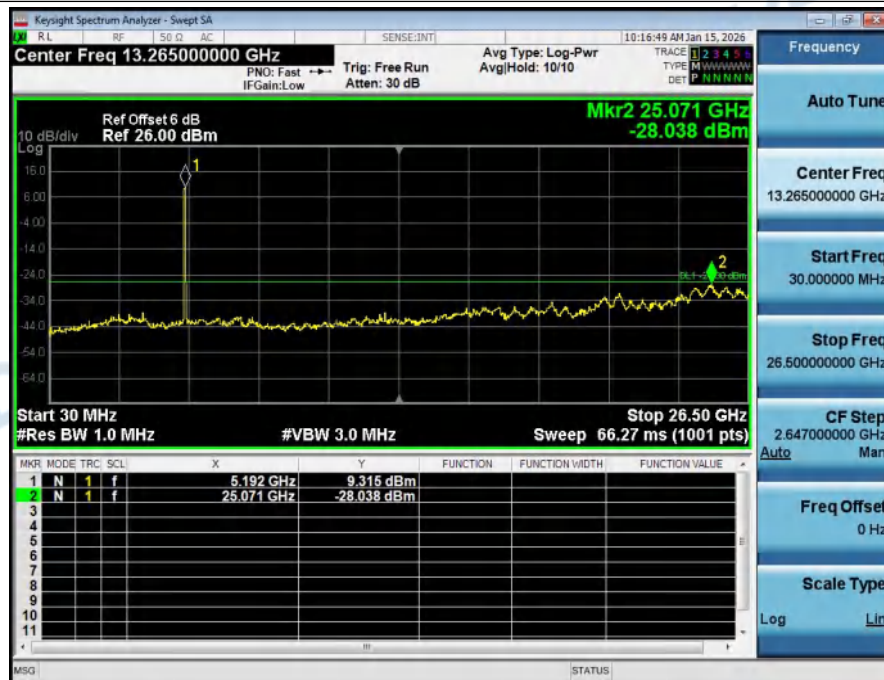
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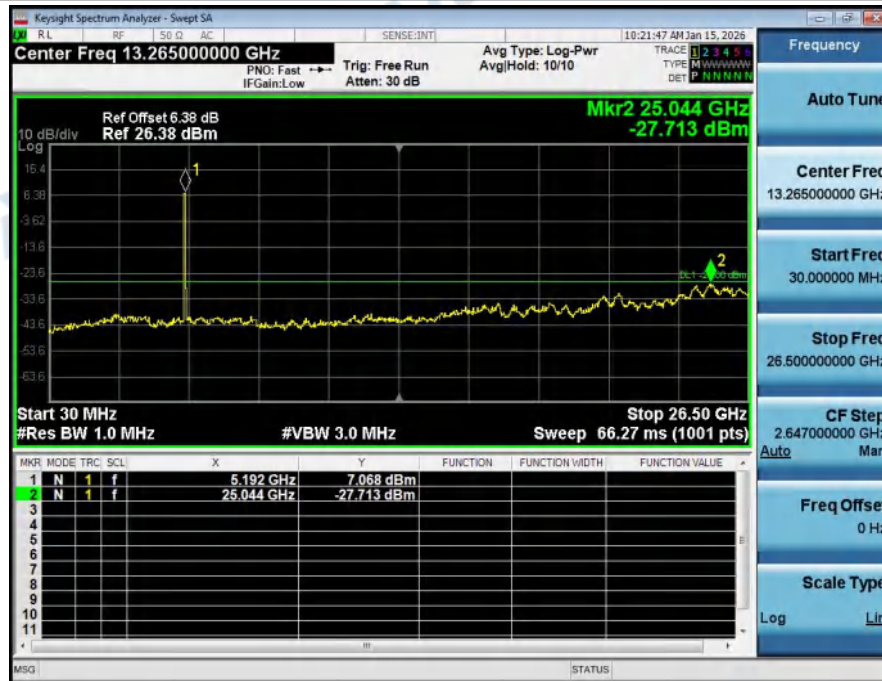
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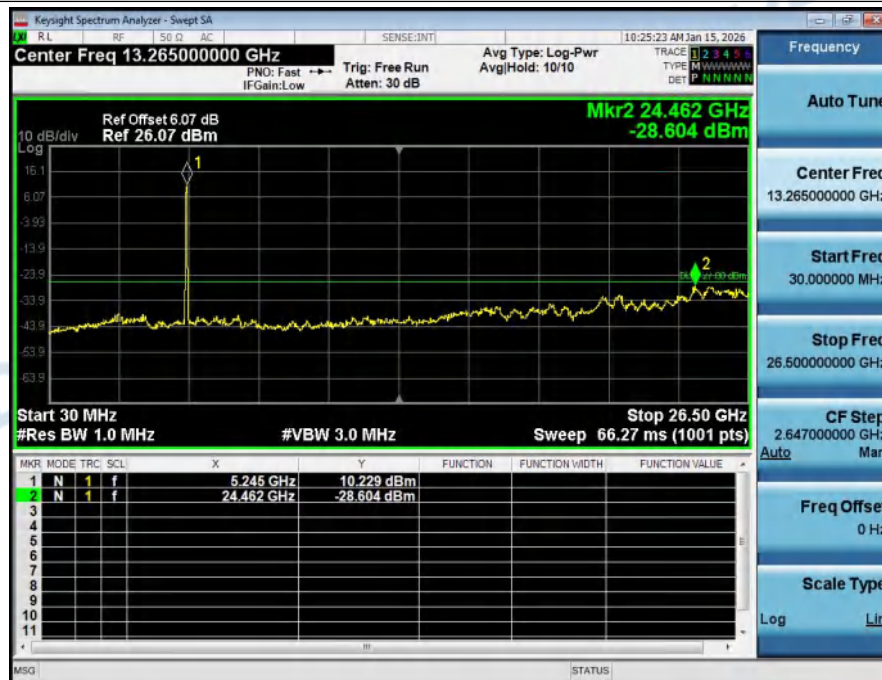
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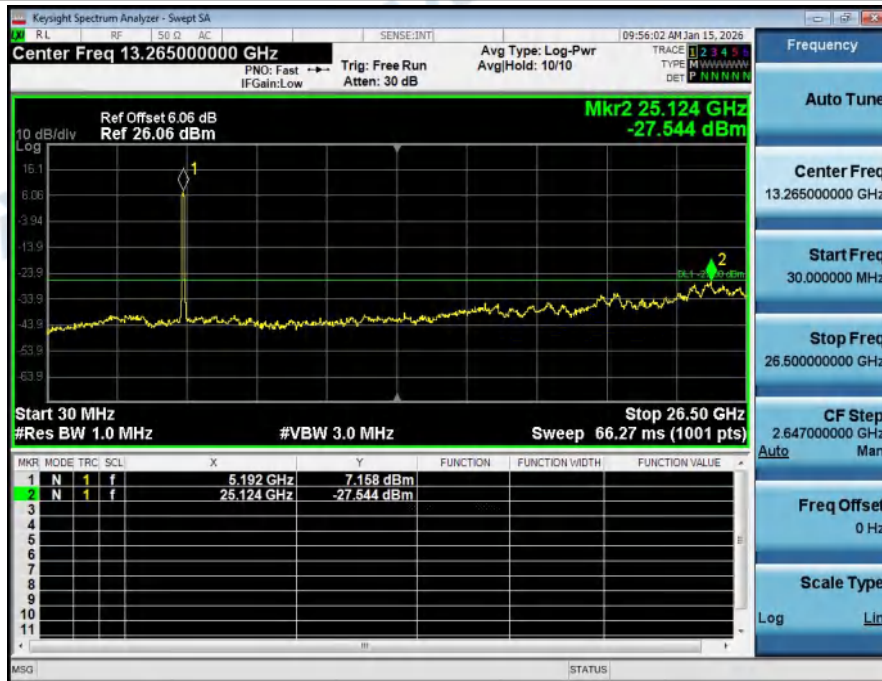
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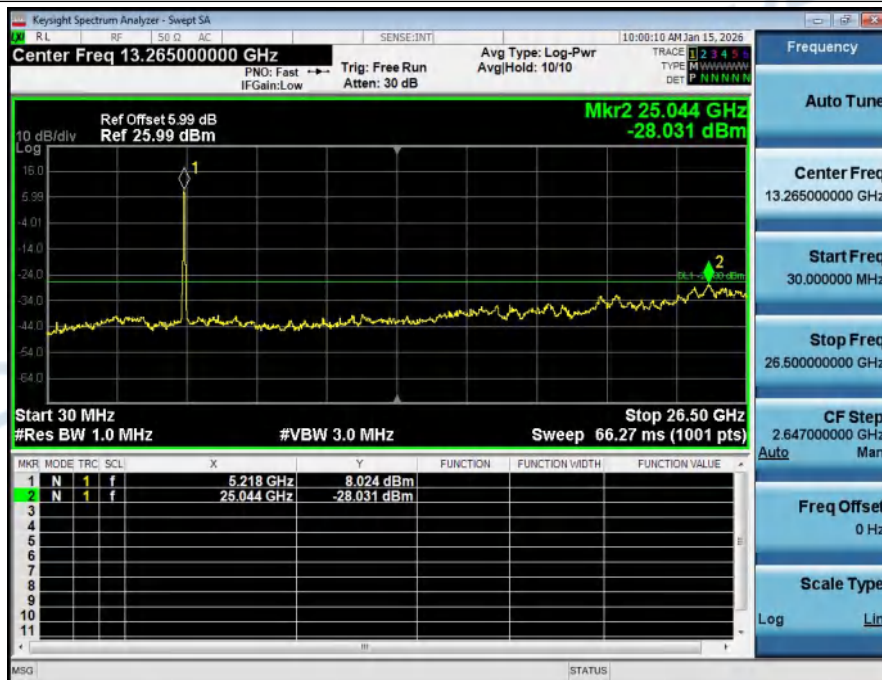
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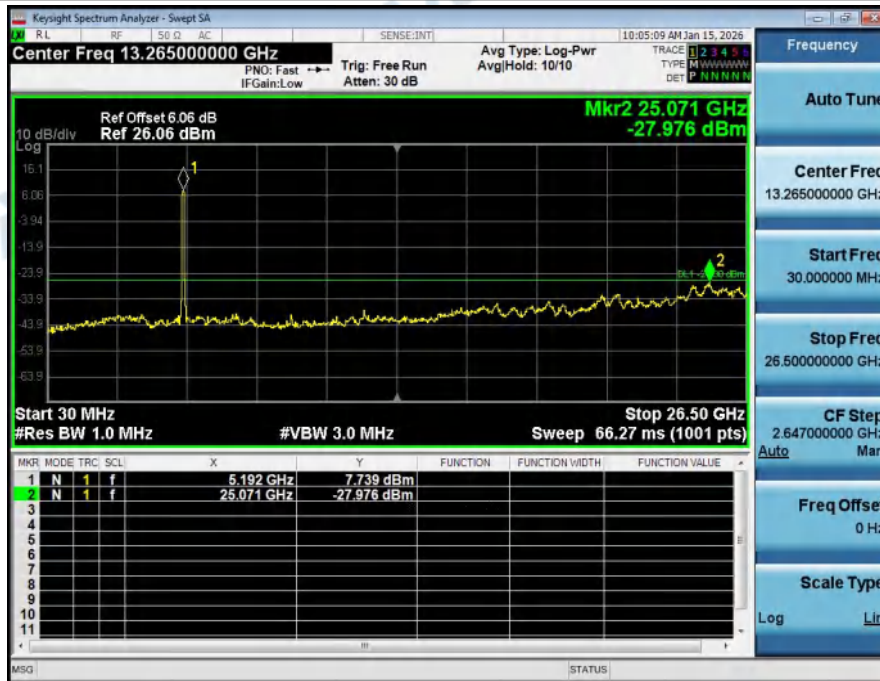
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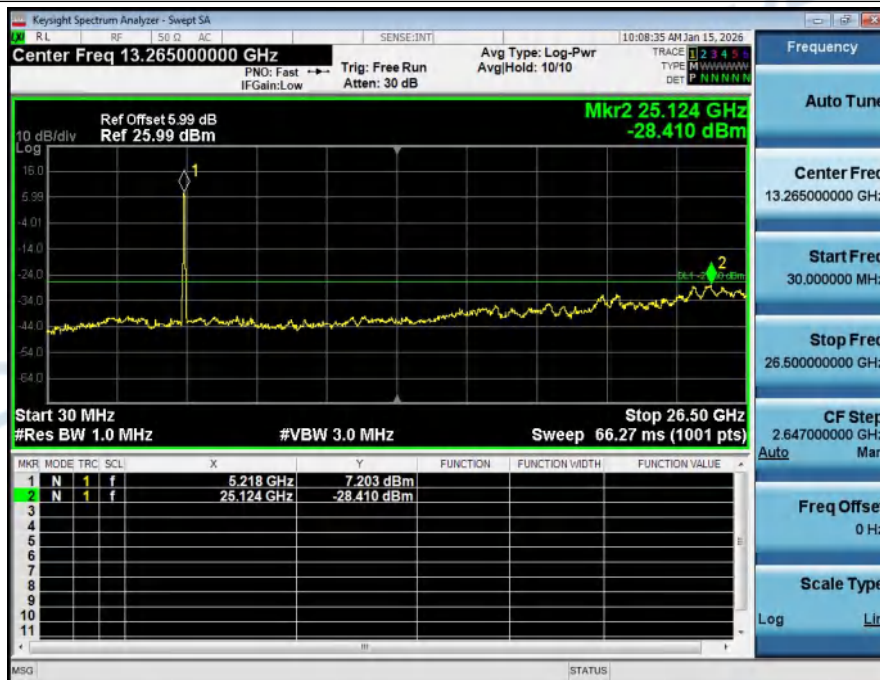
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5230_40M



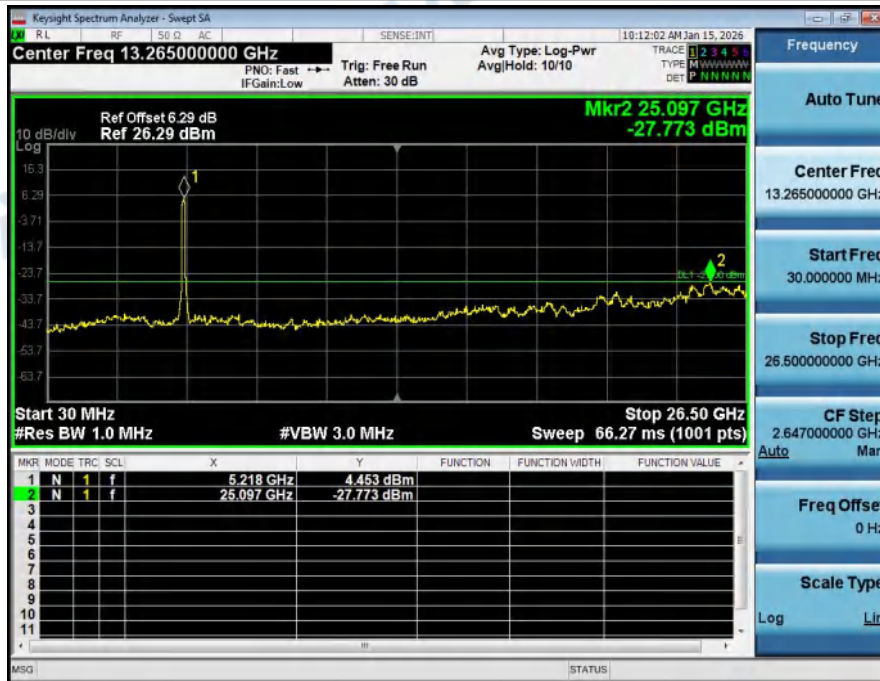
Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5190_40M



Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5230_40M



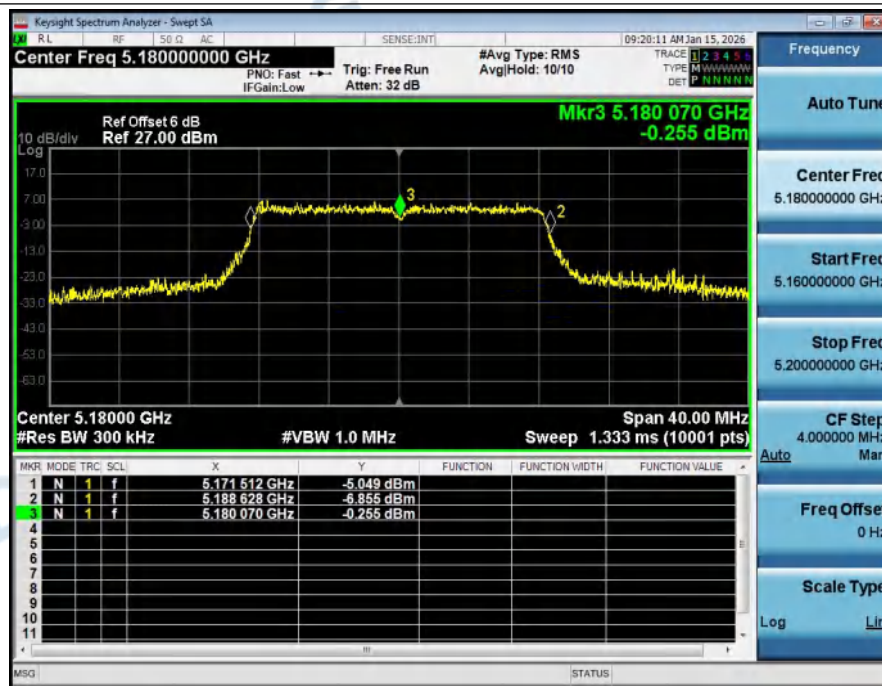
Spurious_Emission_NVNT_ANT1_802_11ac(VHT80)_5210_80M



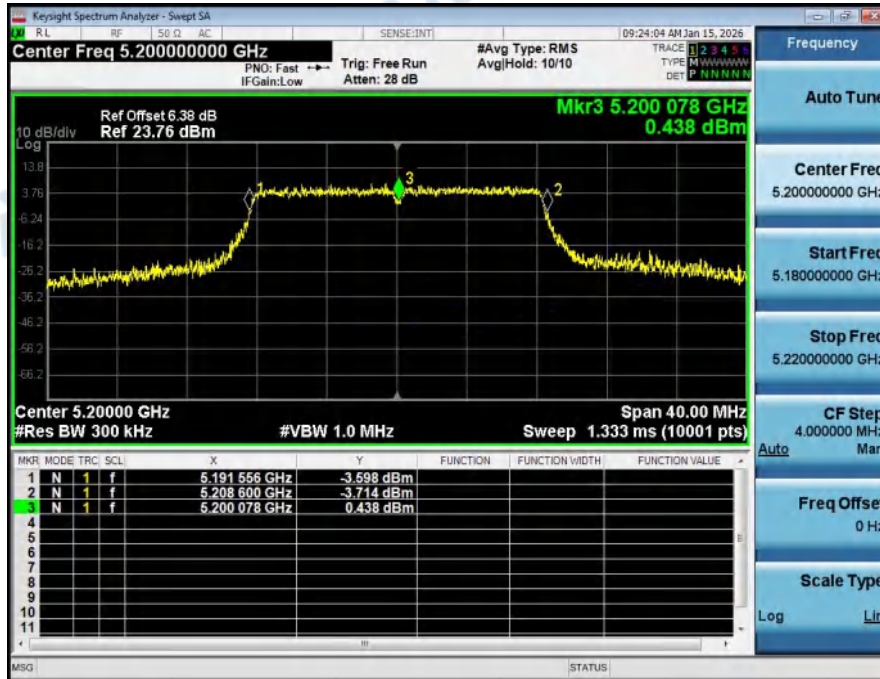
7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fi(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.070	5171.512	5188.628	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5200.078	5191.556	5208.600	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.024	5231.496	5248.552	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5180.034	5170.884	5189.184	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5200.096	5190.944	5209.248	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5240.042	5230.912	5249.172	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5180.042	5170.888	5189.196	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5200.082	5190.956	5209.208	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5240.044	5230.920	5249.168	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5190.088	5171.744	5208.432	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5230.044	5211.728	5248.360	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5190.064	5171.704	5208.424	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5230.064	5211.760	5248.368	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5210.042	5172.056	5248.028	5150~5250	Pass

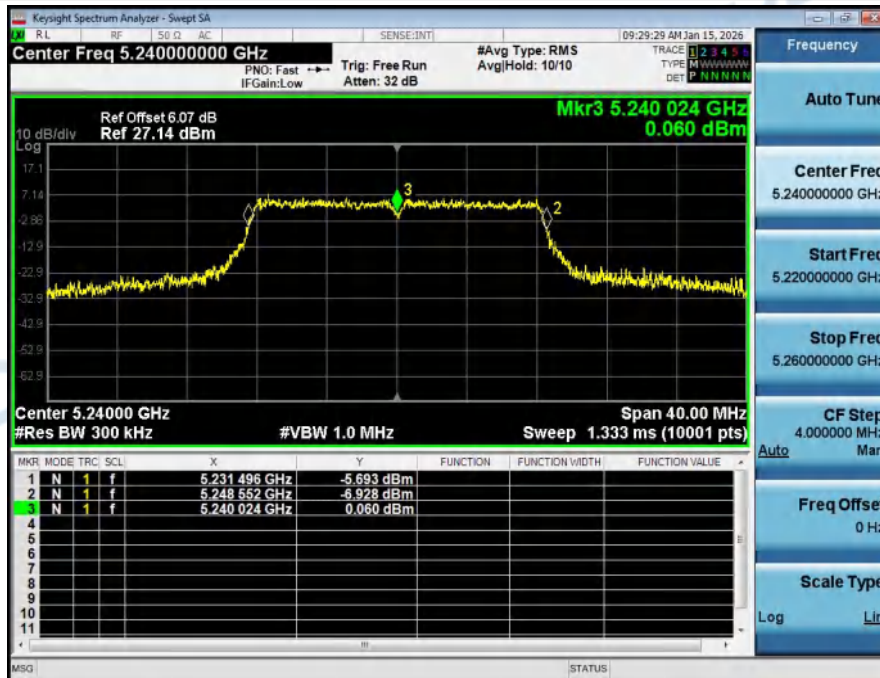
Frequency_Stability_NVNT_ANT1_802_11a_5180



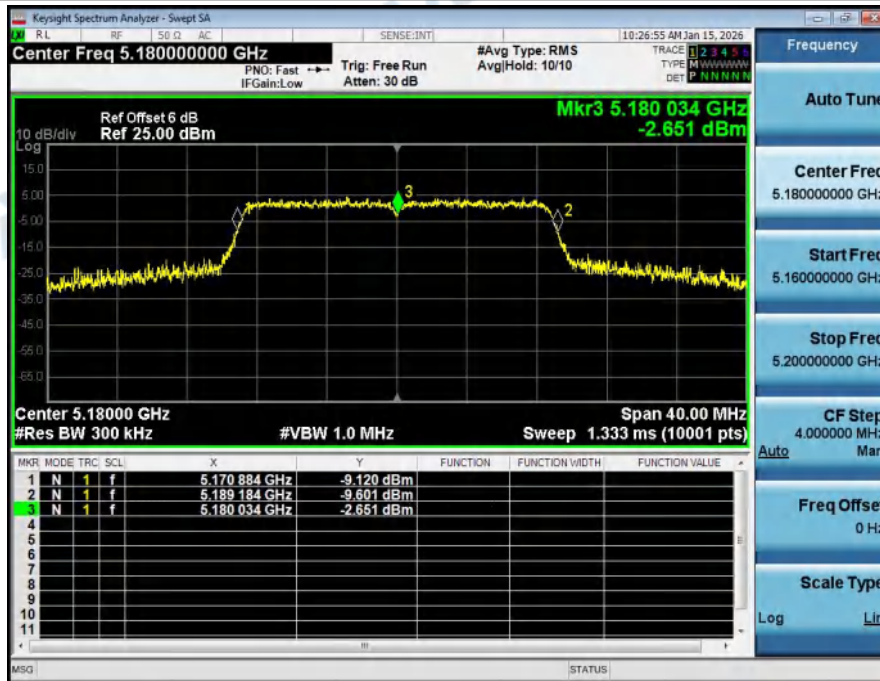
Frequency_Stability_NVNT_ANT1_802_11a_5200



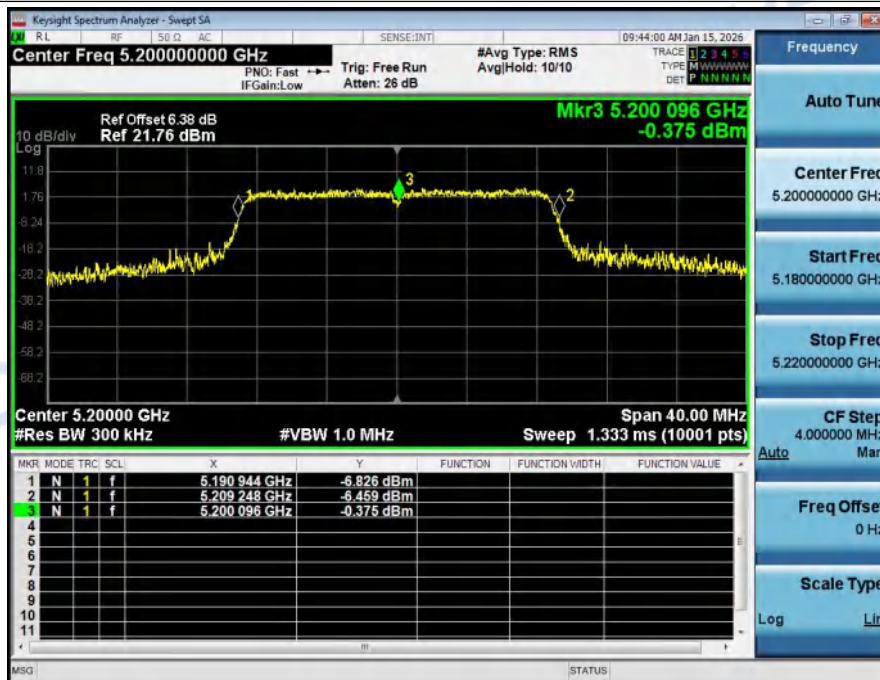
Frequency_Stability_NVNT_ANT1_802_11a_5240



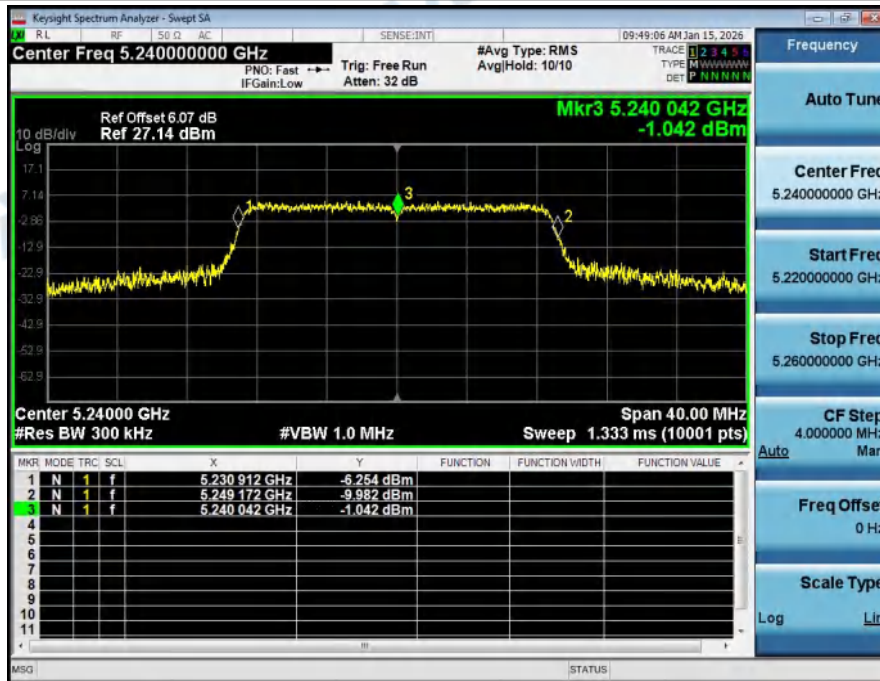
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5180



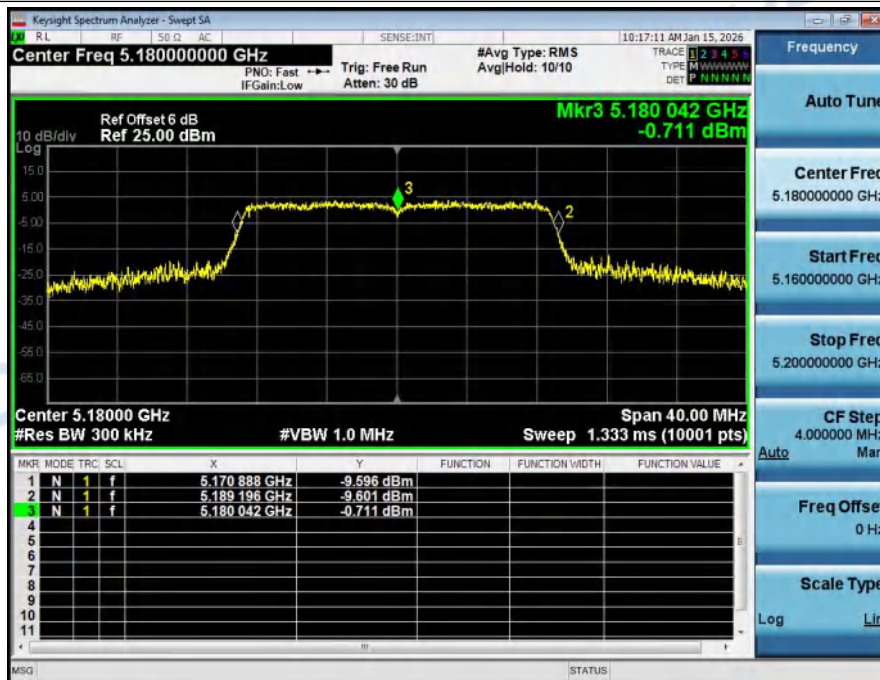
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5200



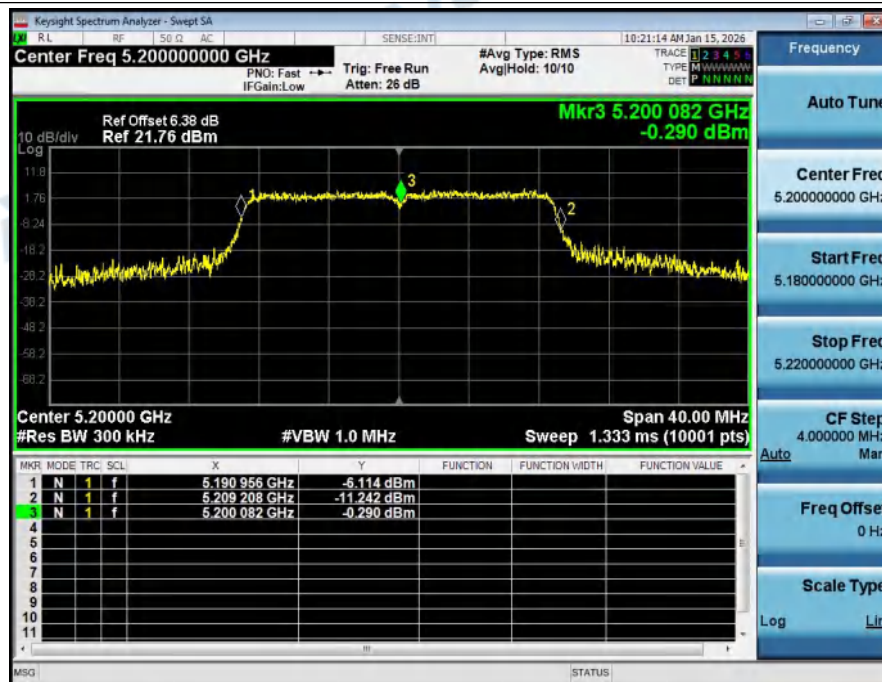
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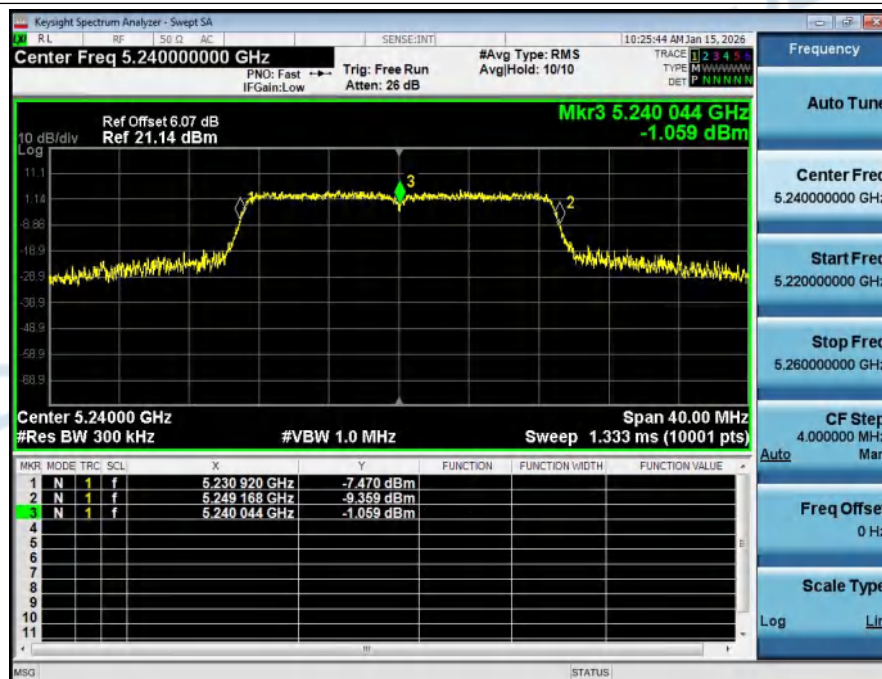
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5180



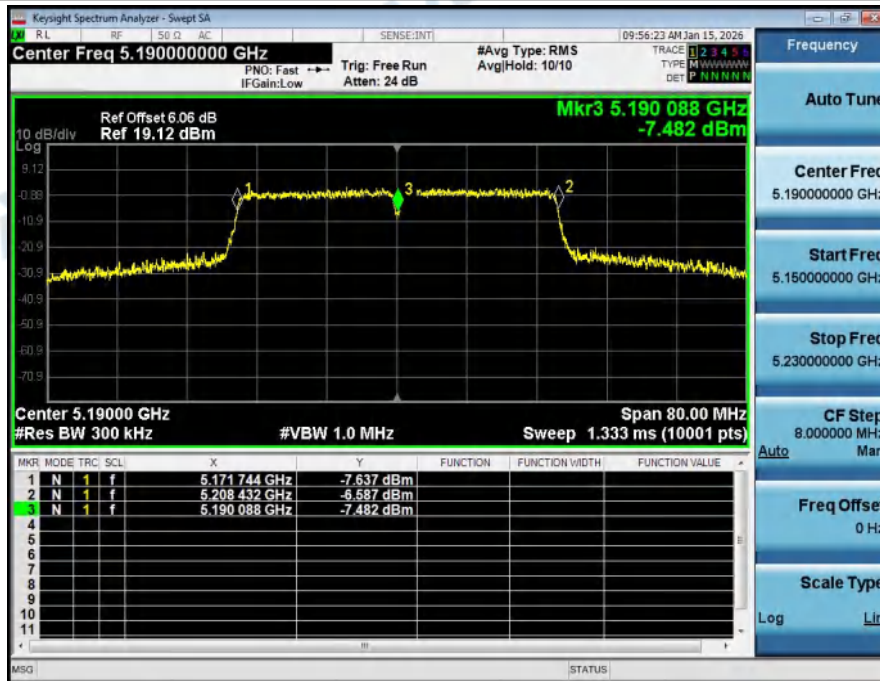
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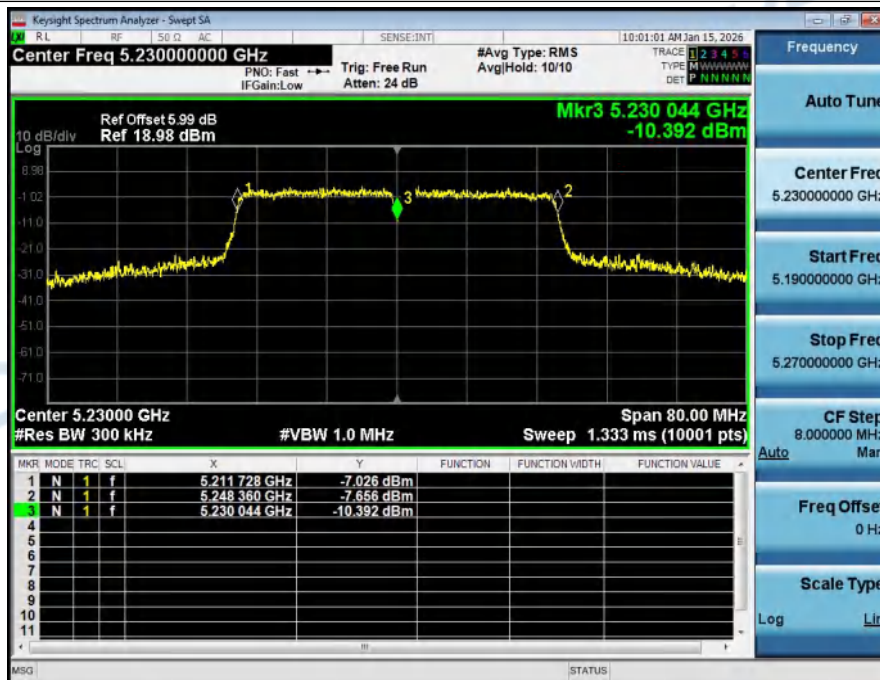
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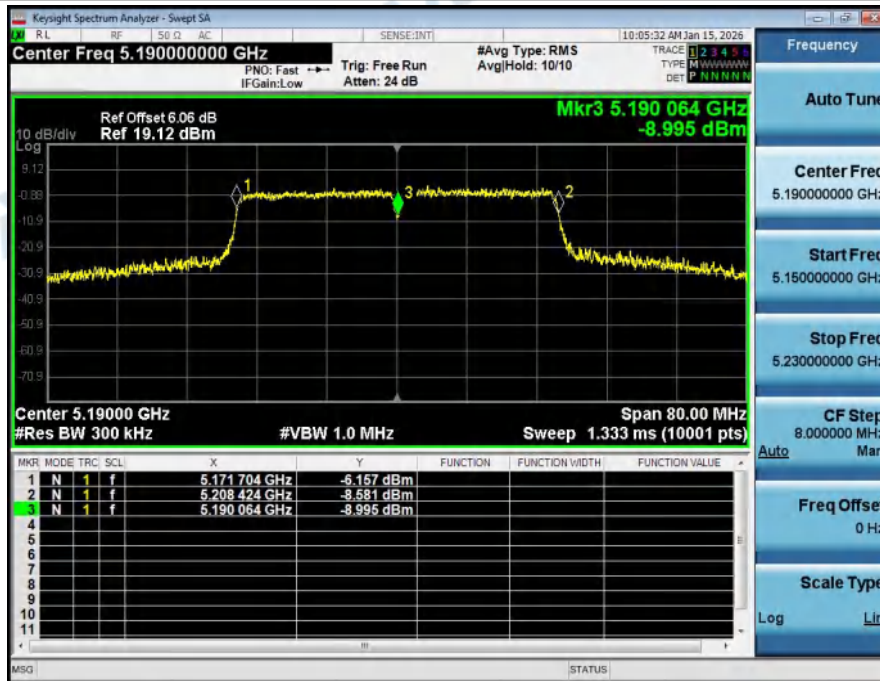
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5190



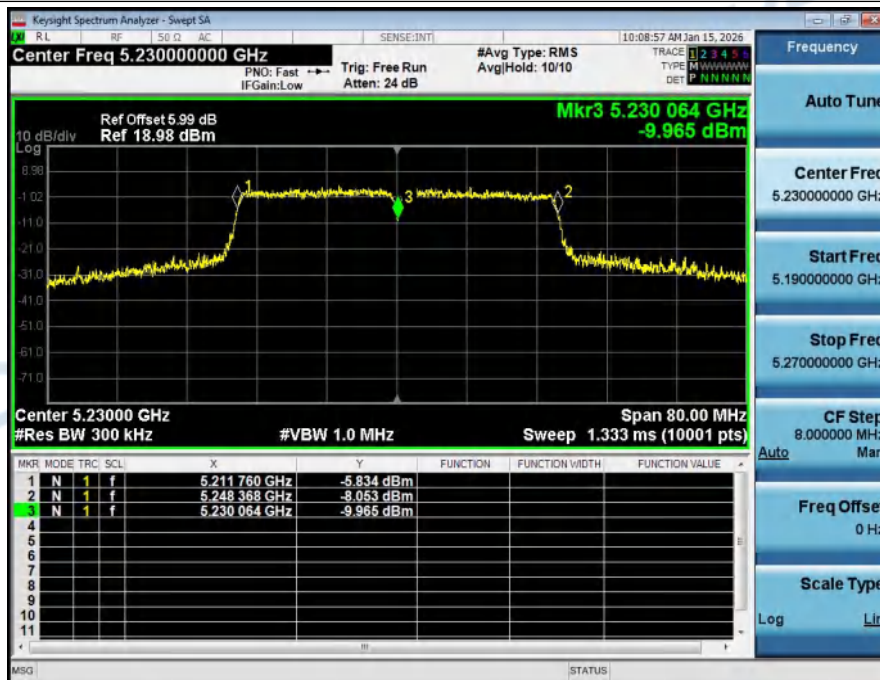
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5230



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5190



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5230



Frequency_Stability_NVNT_ANT1_802_11ac(VHT80)_5210

