

Appendix-5.2GWIFI

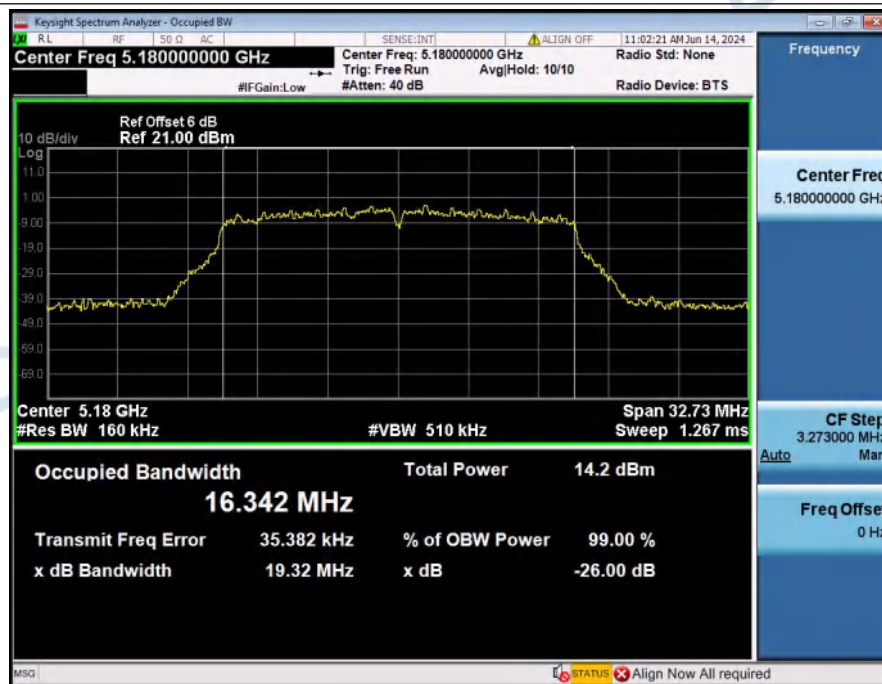
HT240527005--Q777--5.24G--FCC

FCC_5.2G_WIFI (Part15.407) Test Data

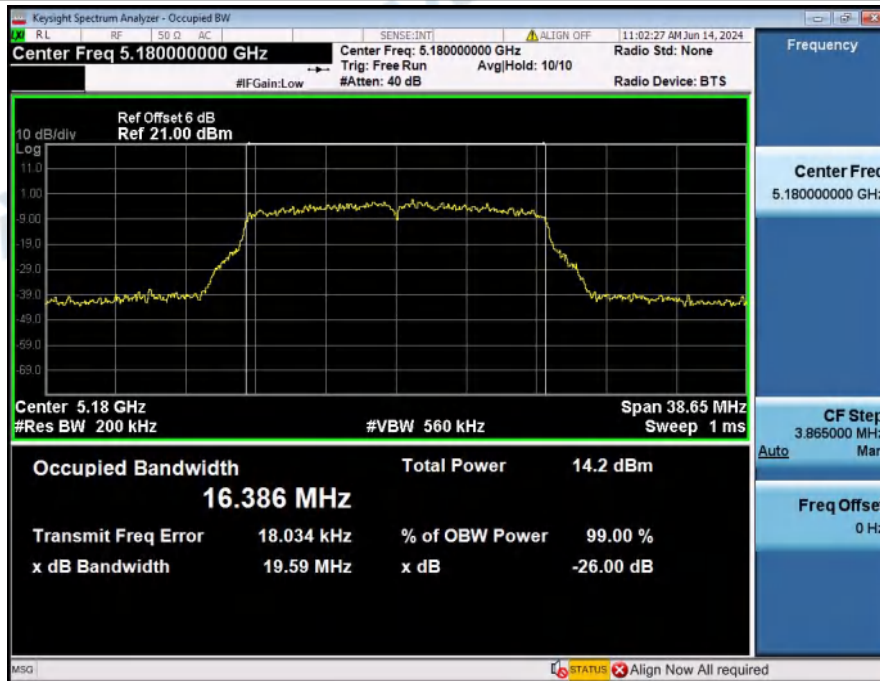
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	19.59	16.34
NVNT	ANT1	802.11a	5200.00	19.28	16.32
NVNT	ANT1	802.11a	5240.00	19.49	16.34
NVNT	ANT1	802.11n(HT20)	5180.00	19.95	17.58
NVNT	ANT1	802.11n(HT20)	5200.00	19.79	17.58
NVNT	ANT1	802.11n(HT20)	5240.00	19.80	17.56
NVNT	ANT1	802.11ac(VHT20)	5180.00	19.78	17.56
NVNT	ANT1	802.11ac(VHT20)	5200.00	19.96	17.55
NVNT	ANT1	802.11ac(VHT20)	5240.00	19.91	17.54
NVNT	ANT1	802.11n(HT40)	5190.00	40.13	36.09
NVNT	ANT1	802.11n(HT40)	5230.00	39.93	36.08
NVNT	ANT1	802.11ac(VHT40)	5190.00	39.65	36.00
NVNT	ANT1	802.11ac(VHT40)	5230.00	39.54	36.02
NVNT	ANT1	802.11ac(VHT80)	5210.00	80.21	75.51

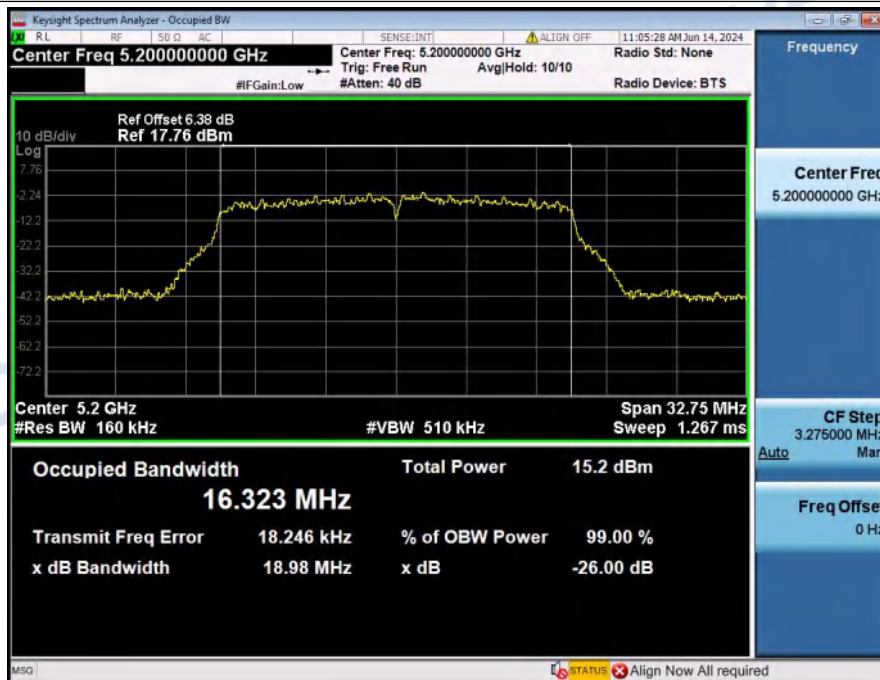
99%_OCB_NVNT_ANT1_802_11a_5180



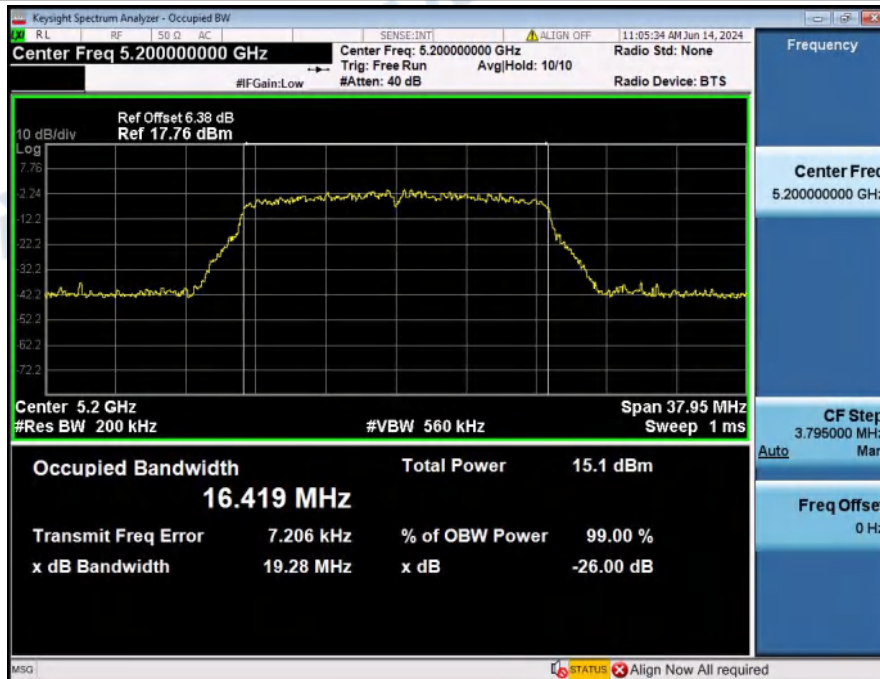
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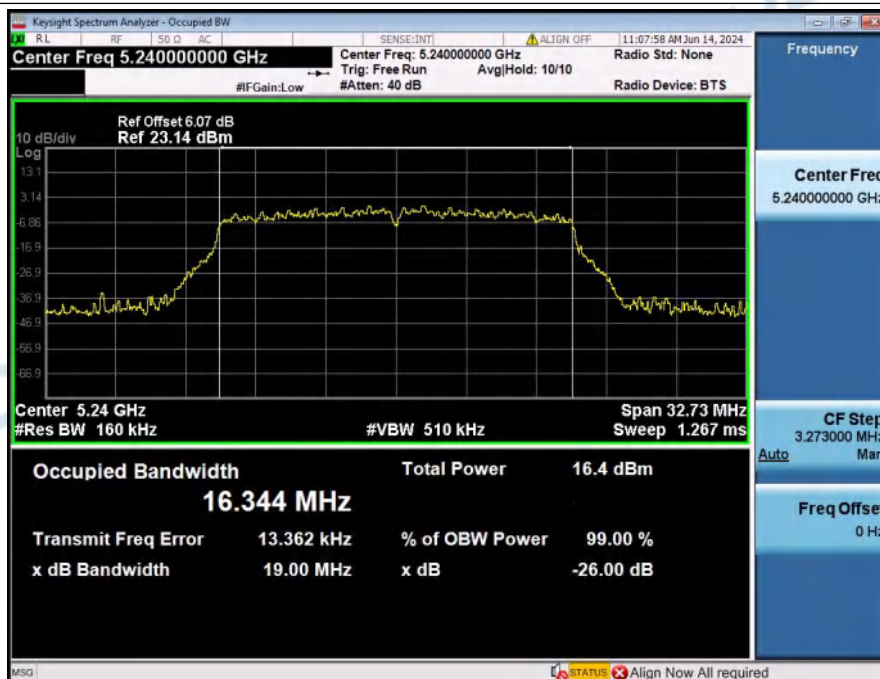
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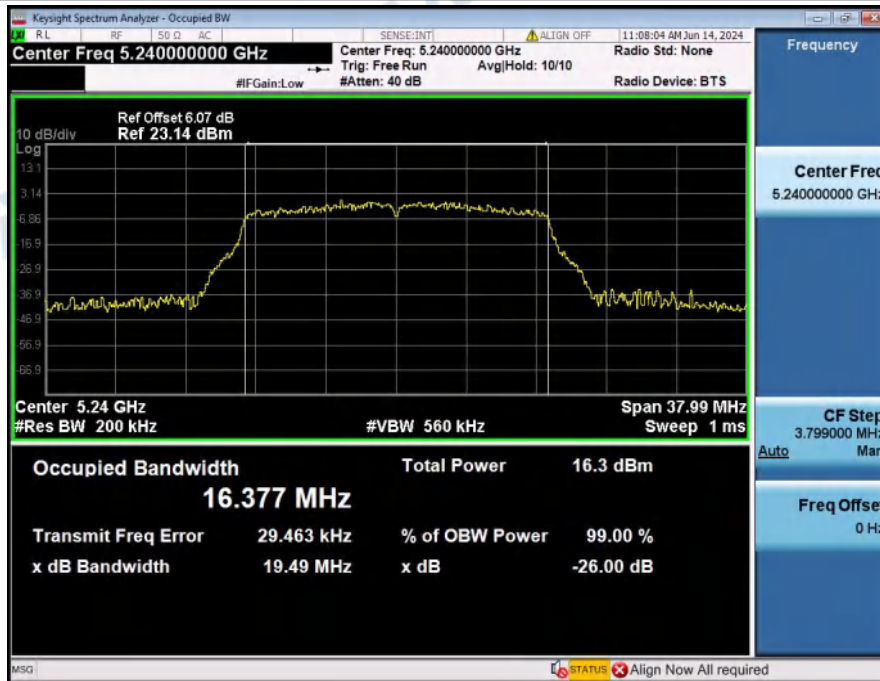
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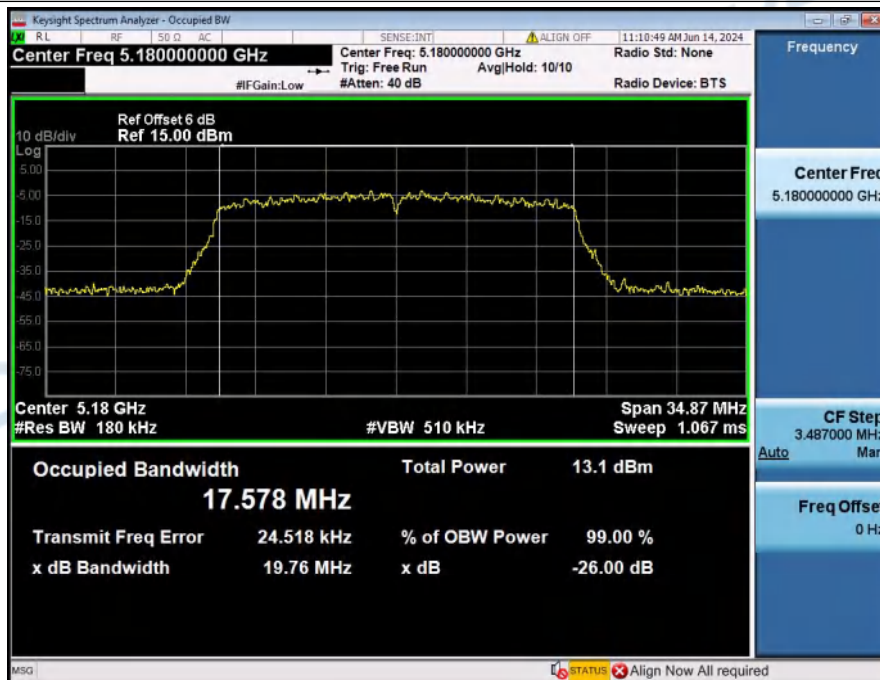
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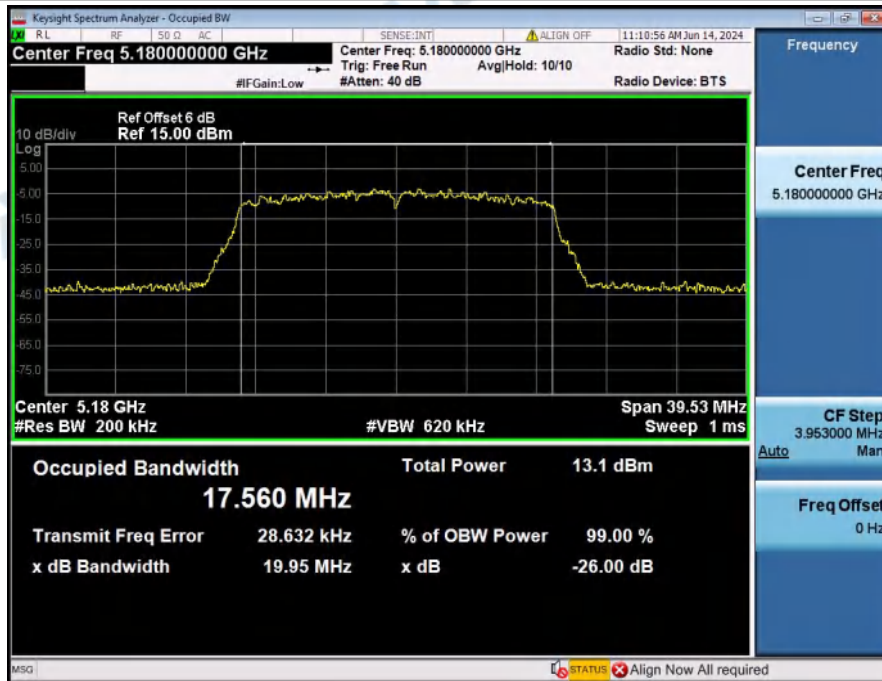
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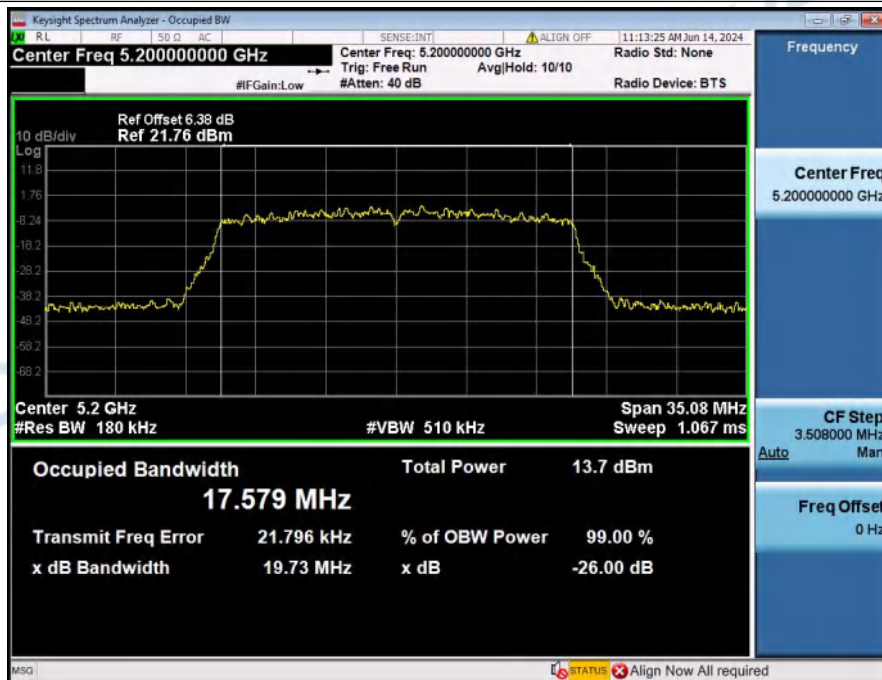
99%_OCB_NVNT_ANT1_802_11n(HT20)_5180



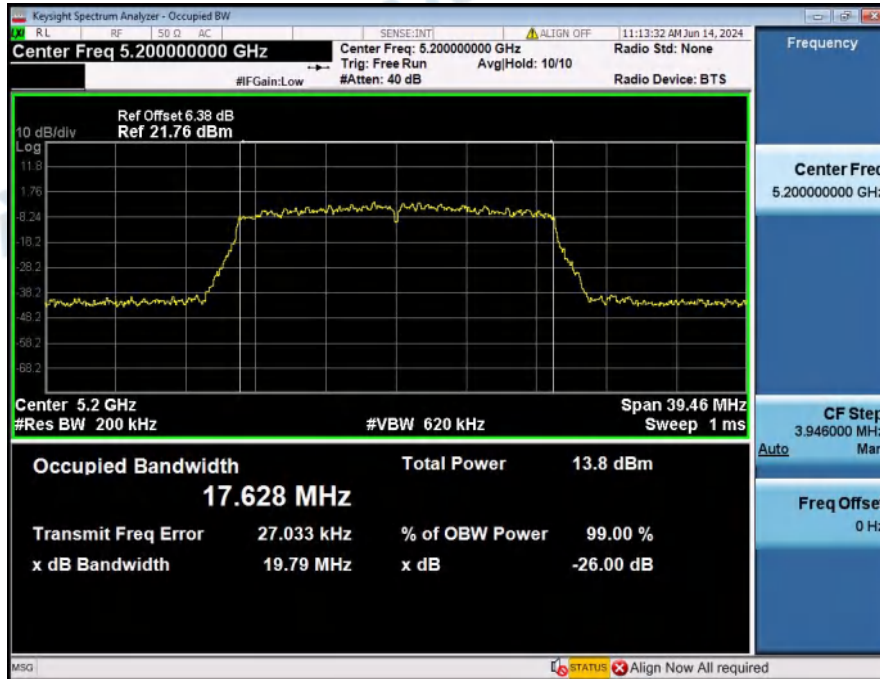
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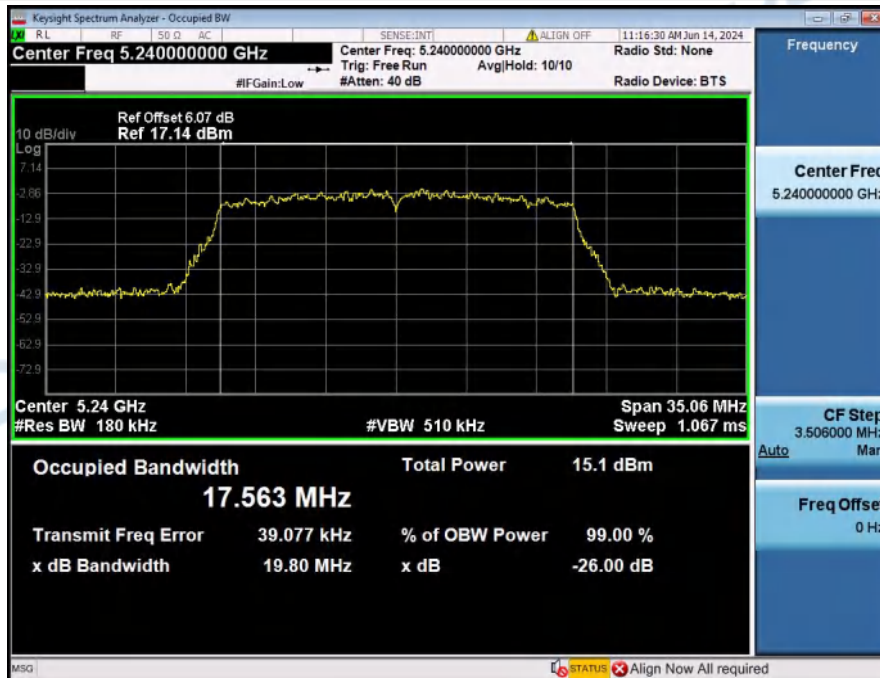
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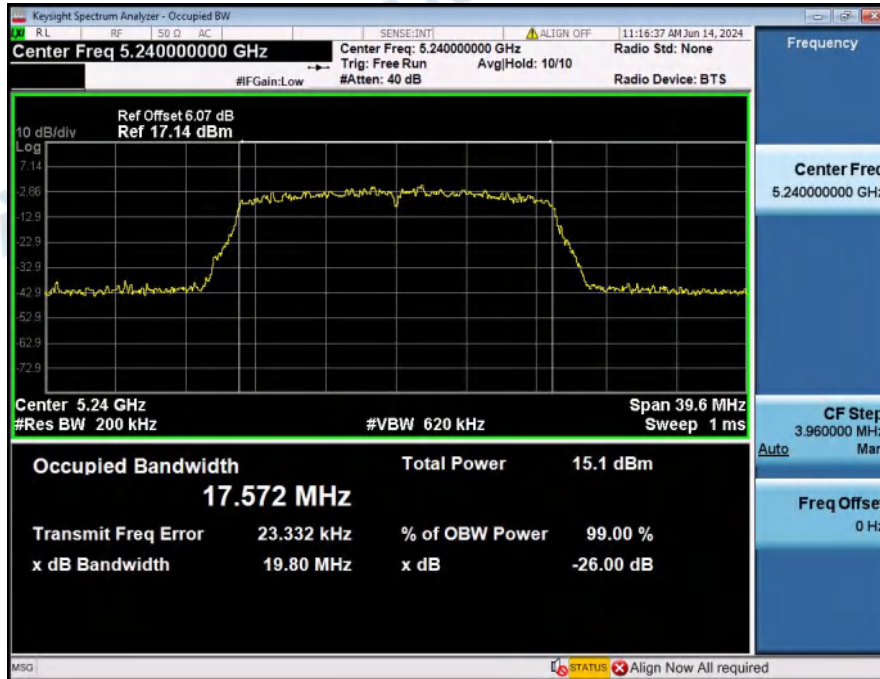
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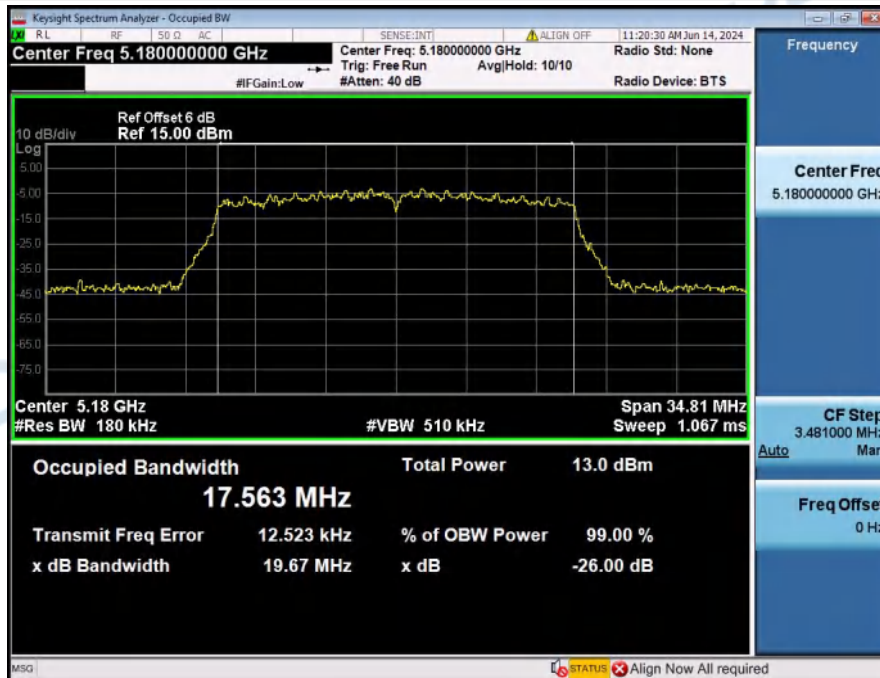
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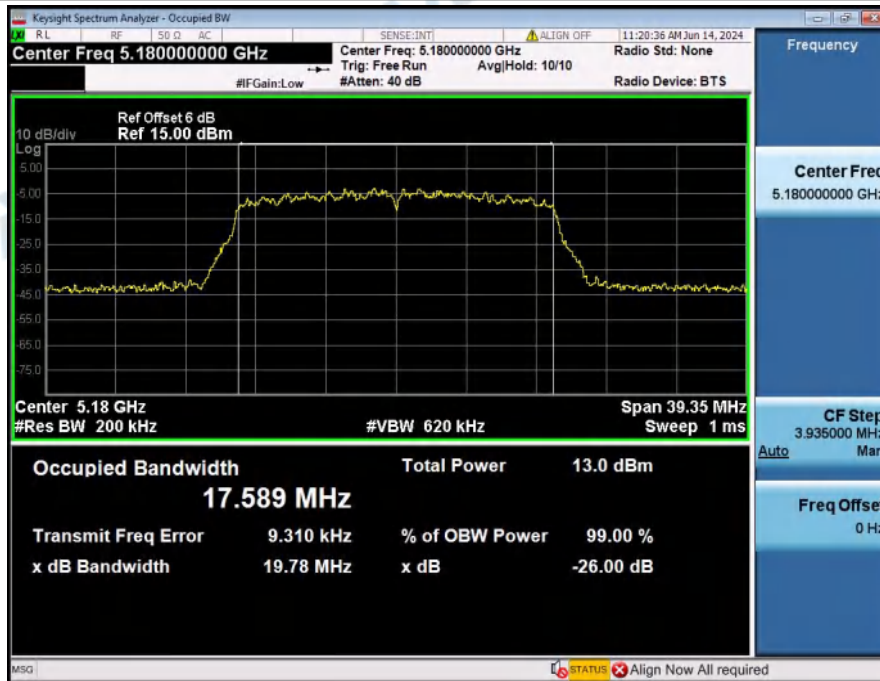
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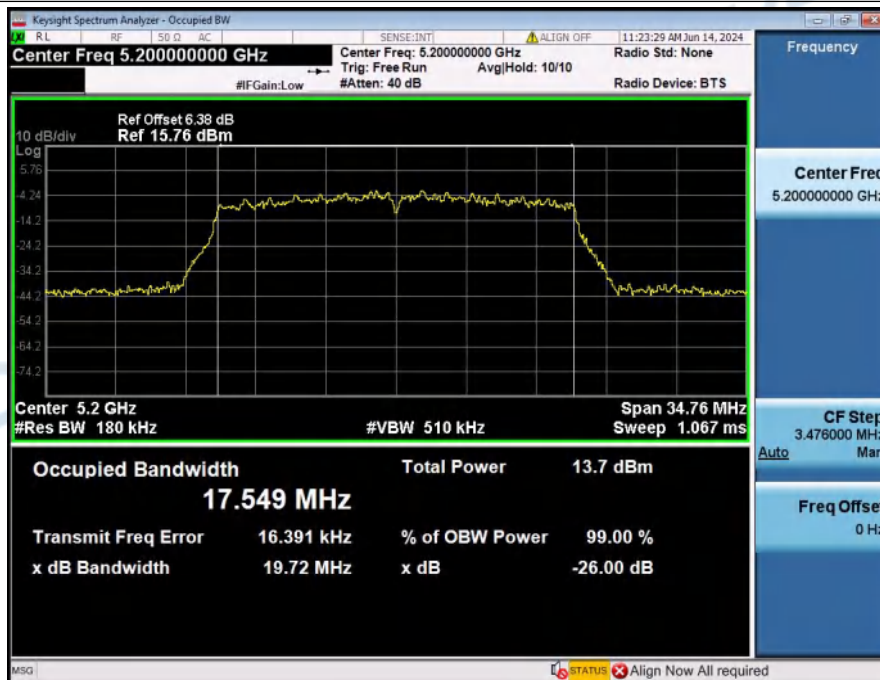
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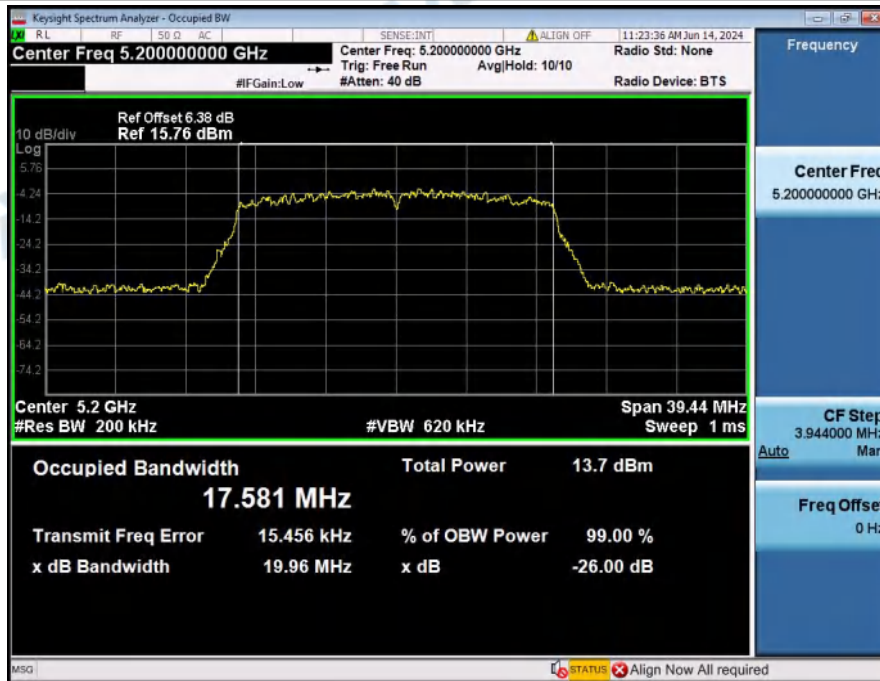
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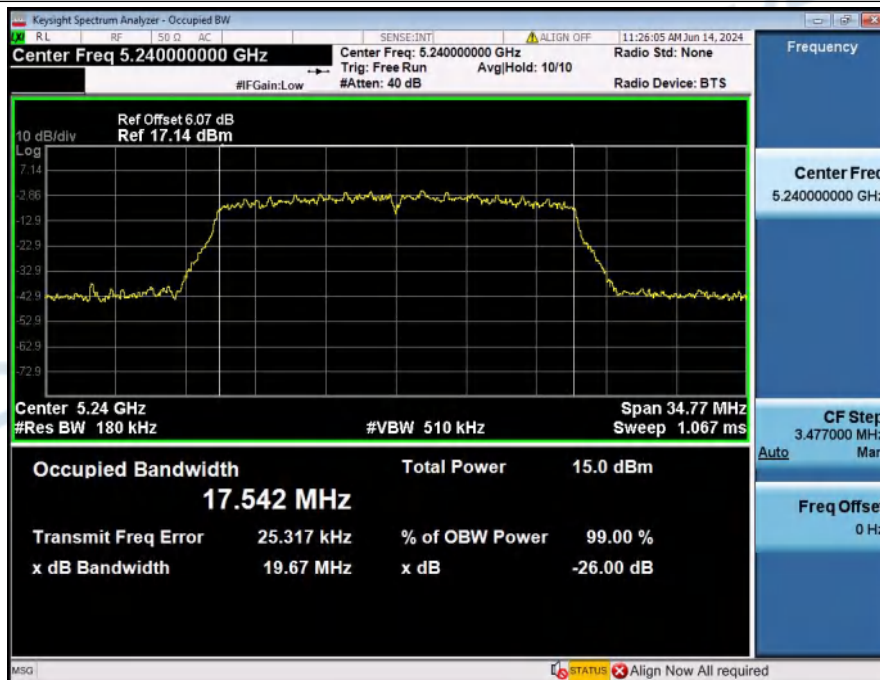
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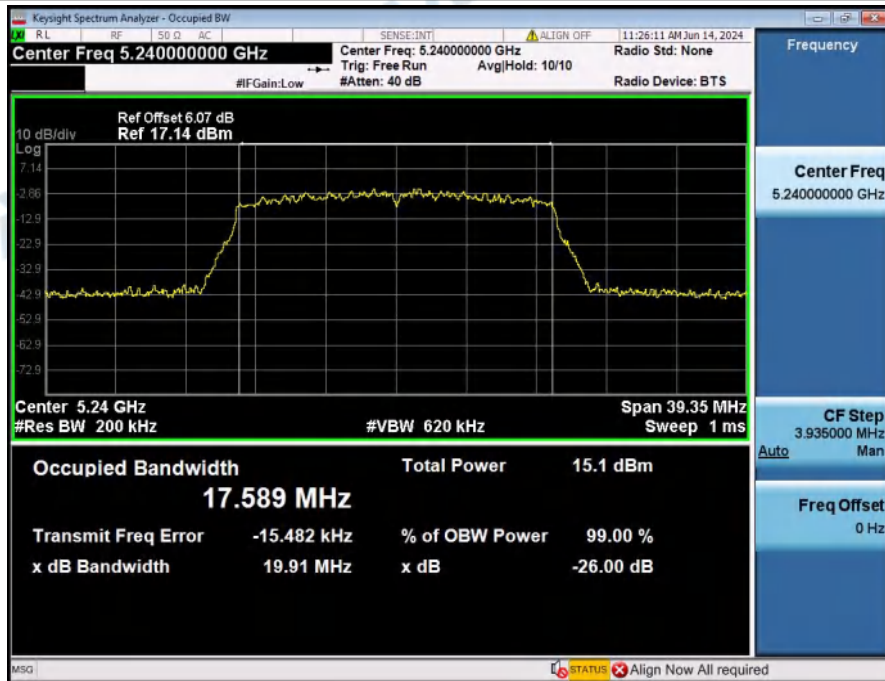
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99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5240



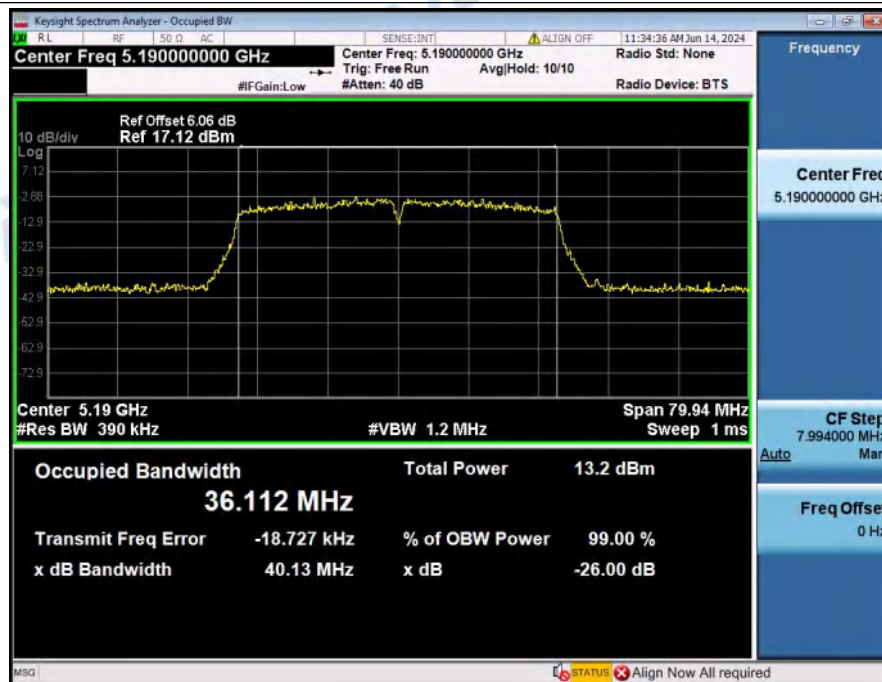
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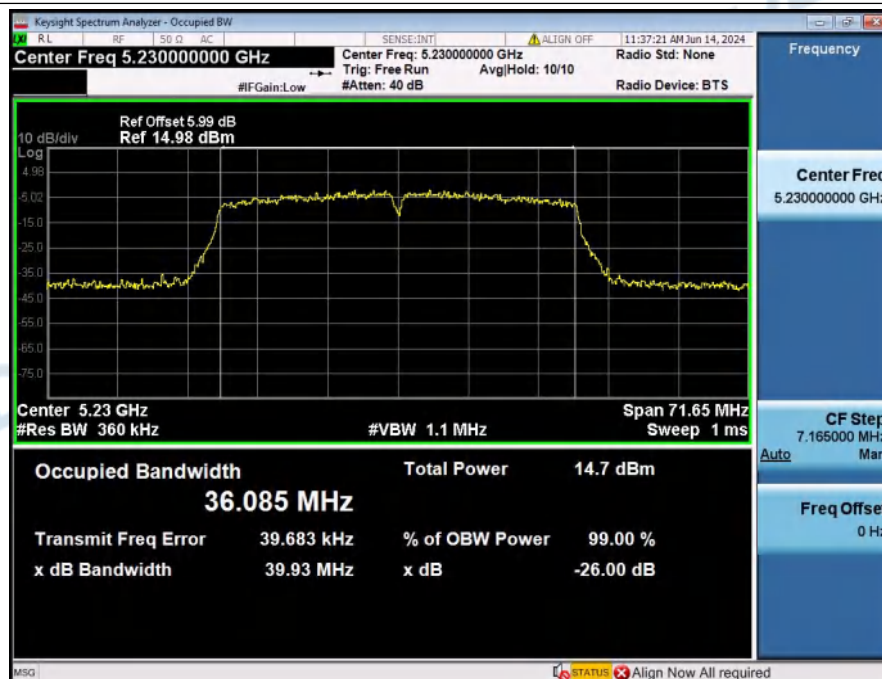
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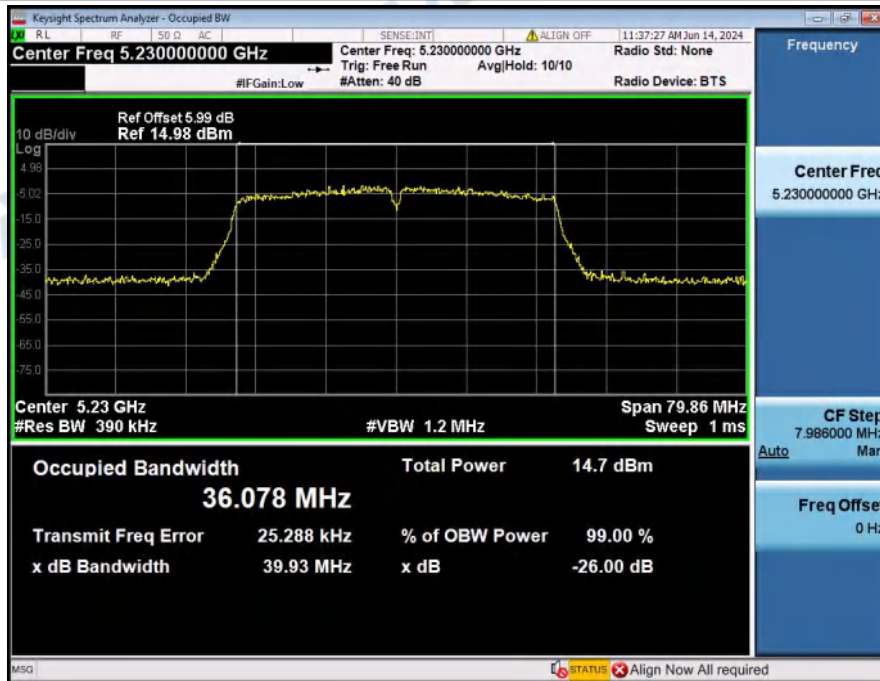
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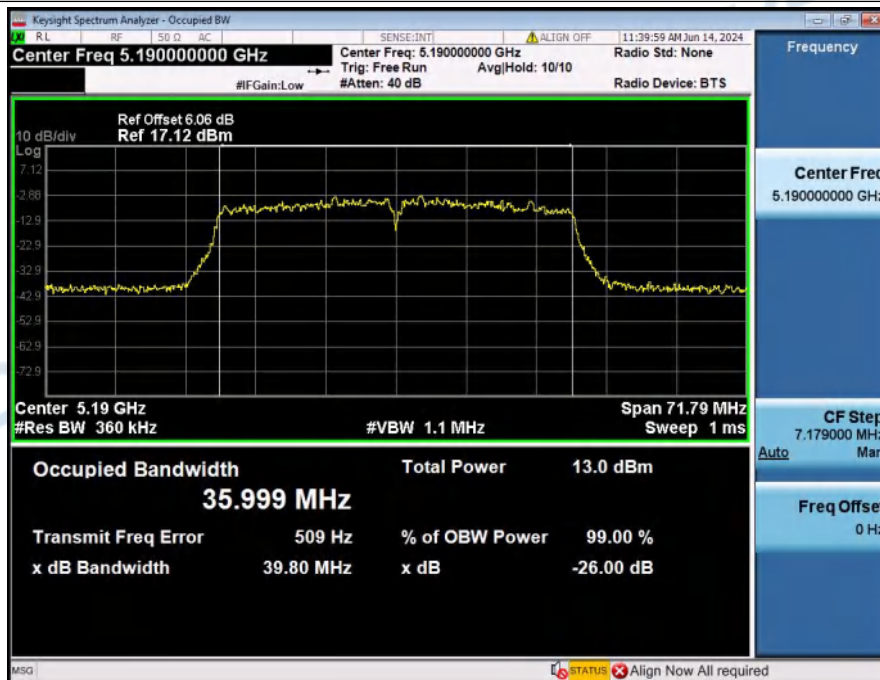
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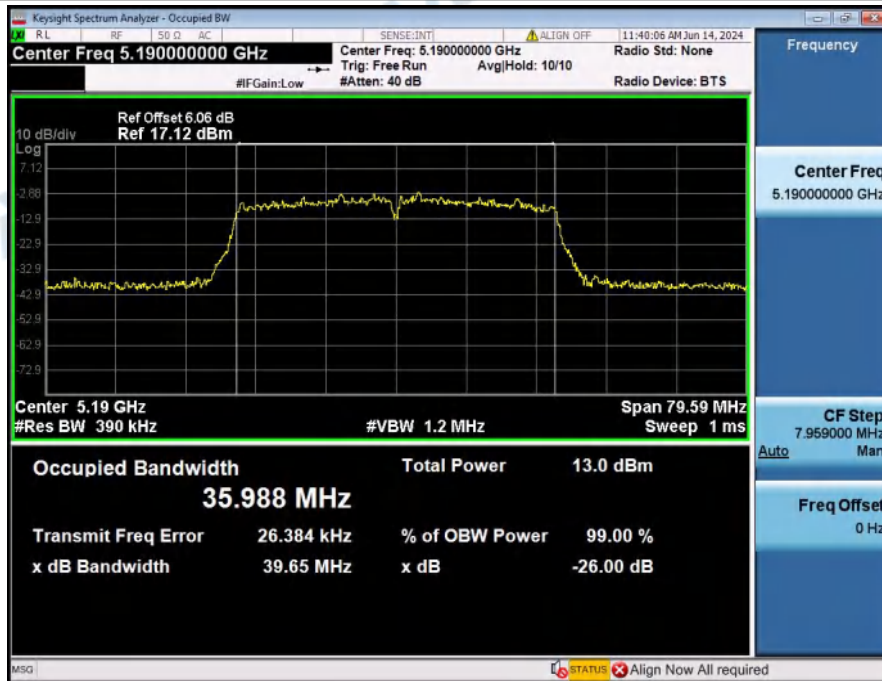
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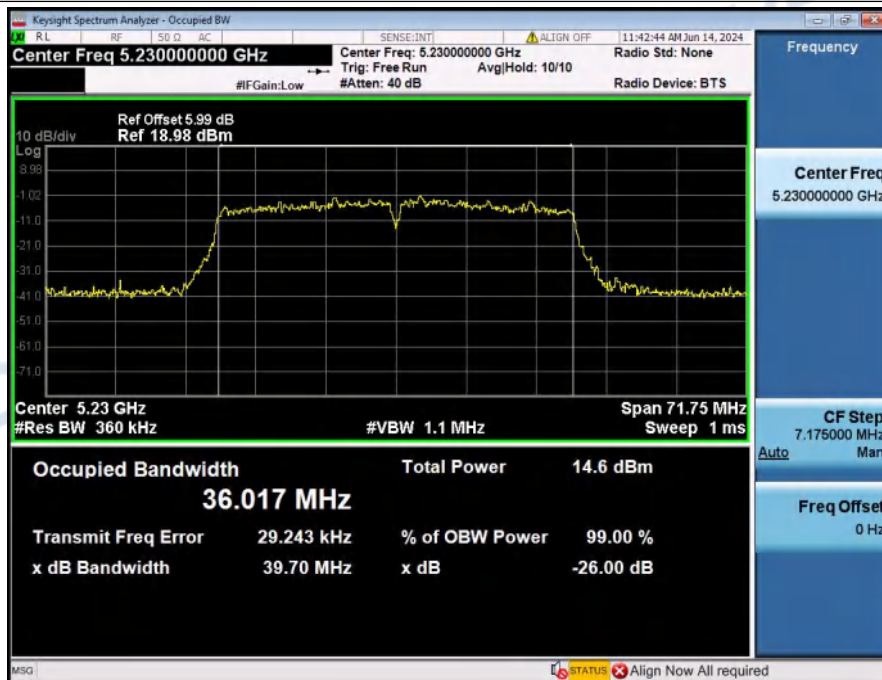
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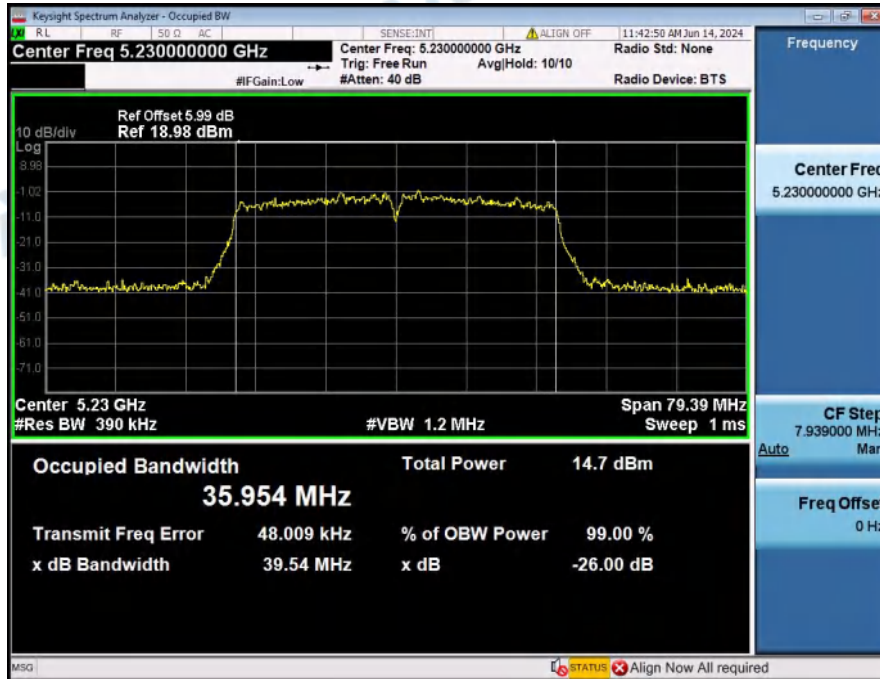
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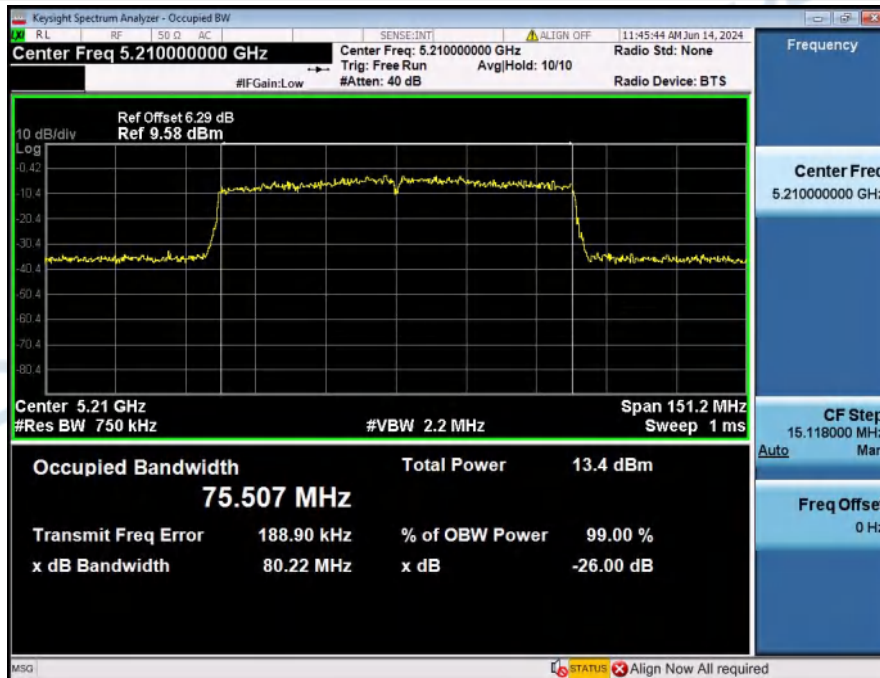
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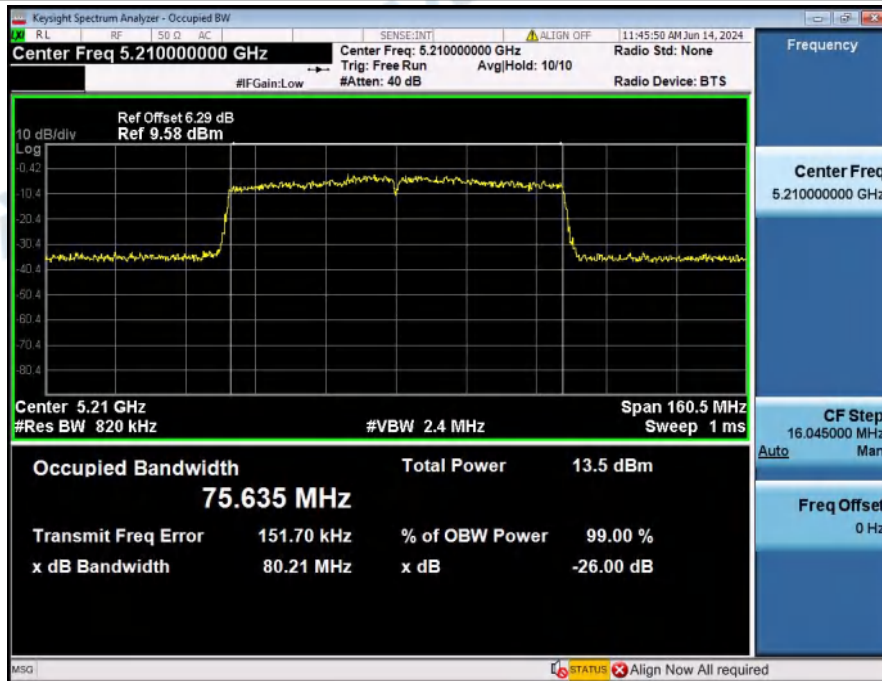
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99%_OCB_NVNT_ANT1_802_11ac(VHT80)_5210



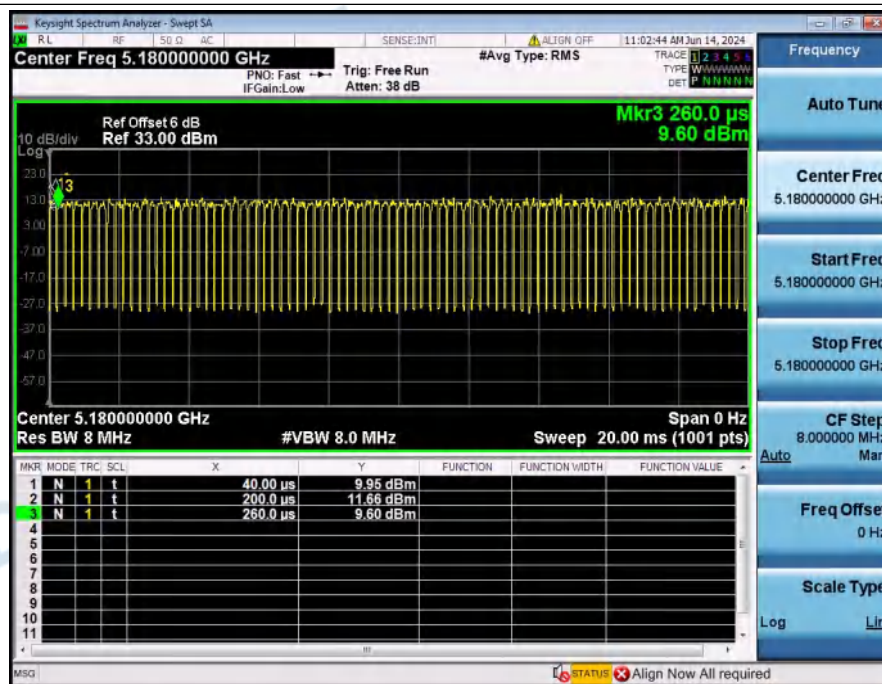
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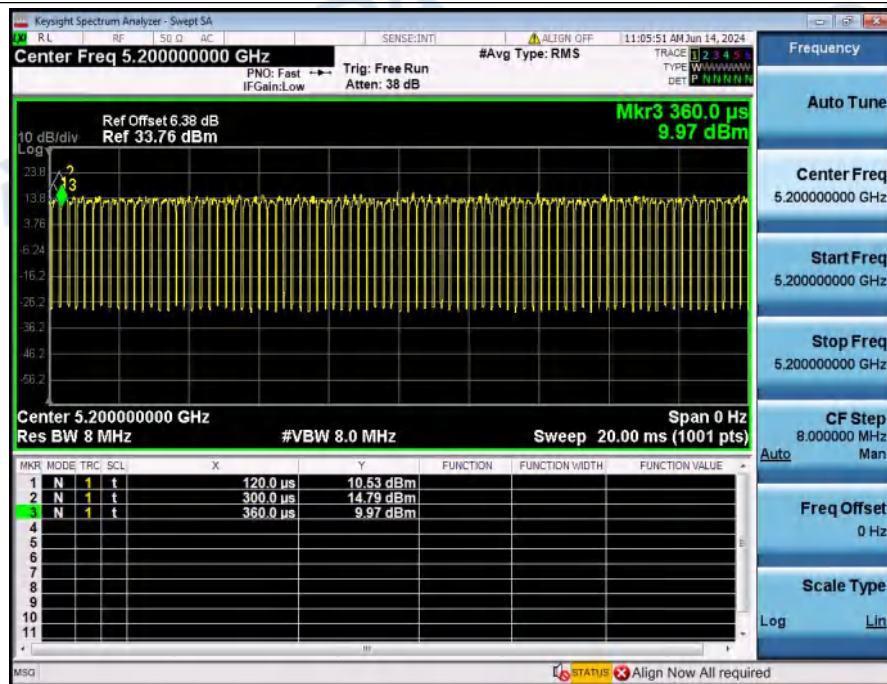
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	72.73	1.38
NVNT	ANT1	802.11a	5200.00	75.00	1.25
NVNT	ANT1	802.11a	5240.00	75.00	1.25
NVNT	ANT1	802.11n(HT20)	5180.00	72.73	1.38
NVNT	ANT1	802.11n(HT20)	5200.00	72.73	1.38
NVNT	ANT1	802.11n(HT20)	5240.00	75.00	1.25
NVNT	ANT1	802.11ac(VHT20)	5180.00	62.50	2.04
NVNT	ANT1	802.11ac(VHT20)	5200.00	62.50	2.04
NVNT	ANT1	802.11ac(VHT20)	5240.00	62.50	2.04
NVNT	ANT1	802.11n(HT40)	5190.00	62.50	2.04
NVNT	ANT1	802.11n(HT40)	5230.00	62.50	2.04
NVNT	ANT1	802.11ac(VHT40)	5190.00	57.14	2.43
NVNT	ANT1	802.11ac(VHT40)	5230.00	57.14	2.43
NVNT	ANT1	802.11ac(VHT80)	5210.00	50.00	3.01

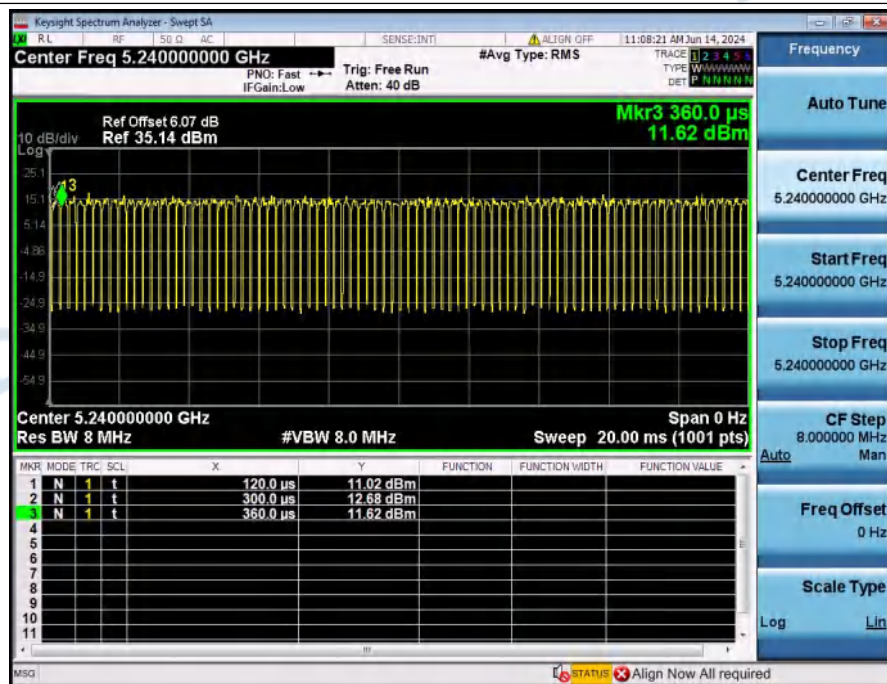
Duty_Cycle_NVNT_ANT1_802_11a_5180



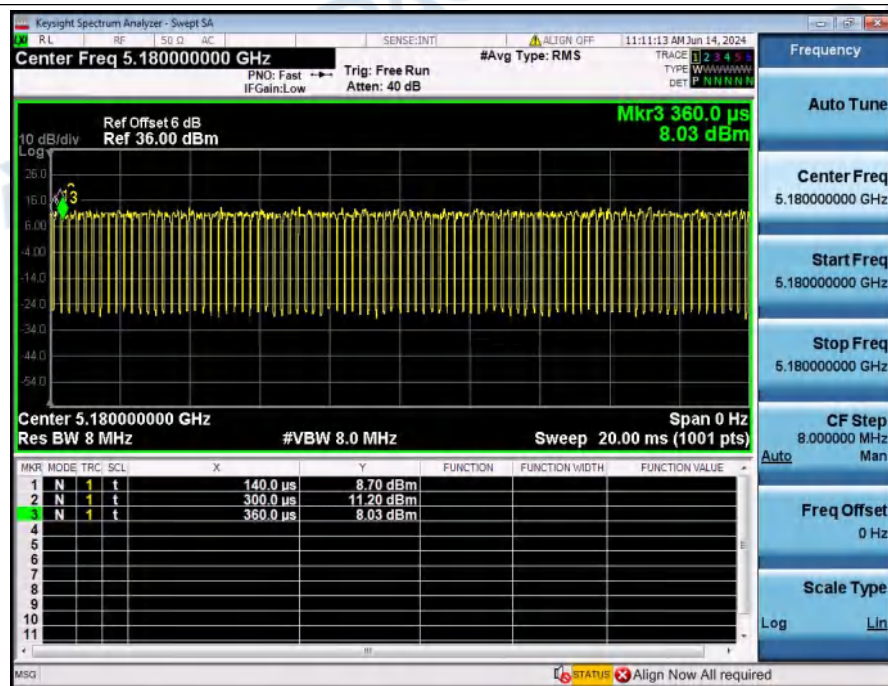
Duty_Cycle_NVNT_ANT1_802_11a_5200



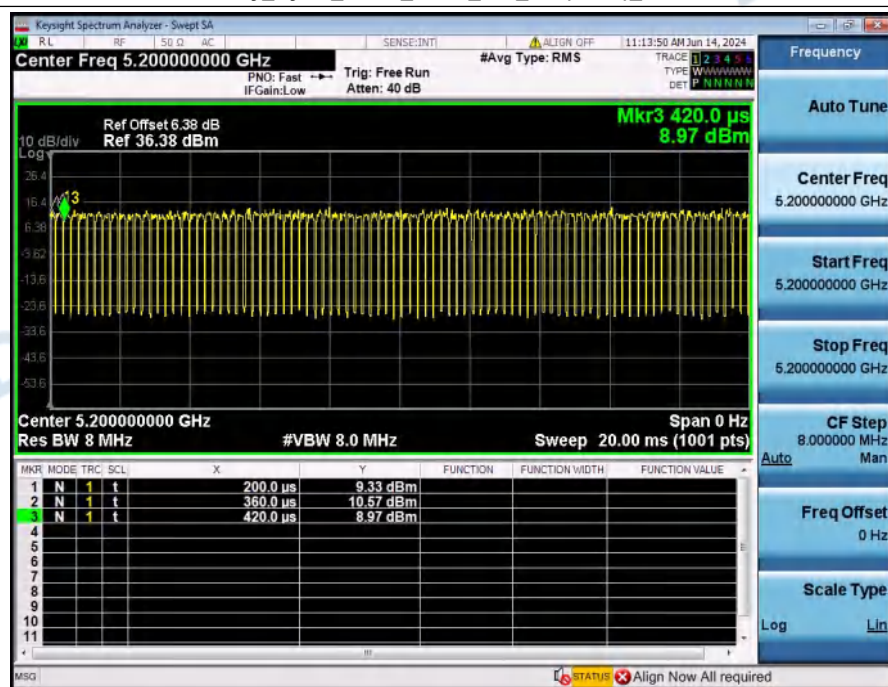
Duty_Cycle_NVNT_ANT1_802_11a_5240



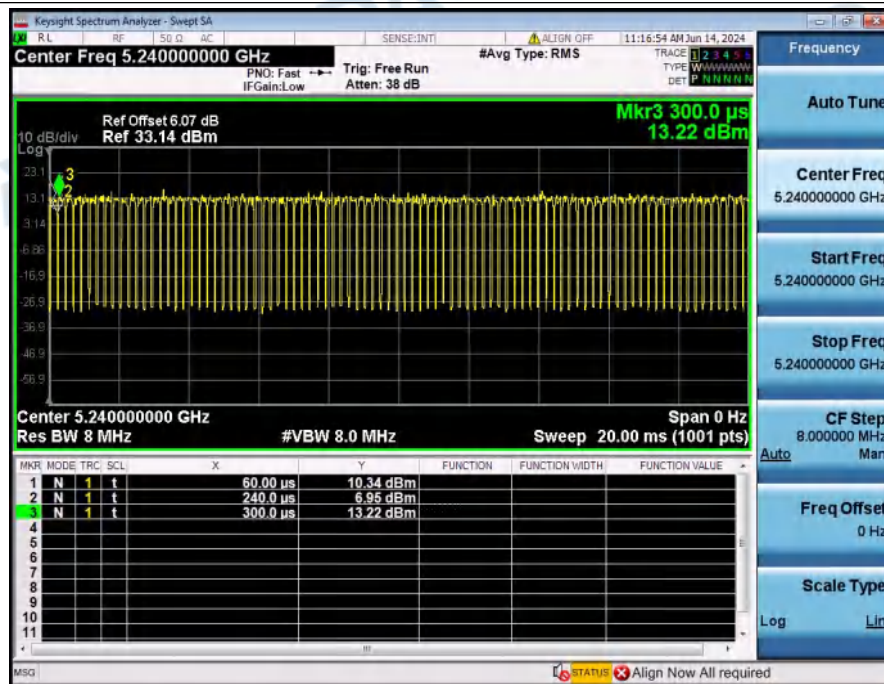
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



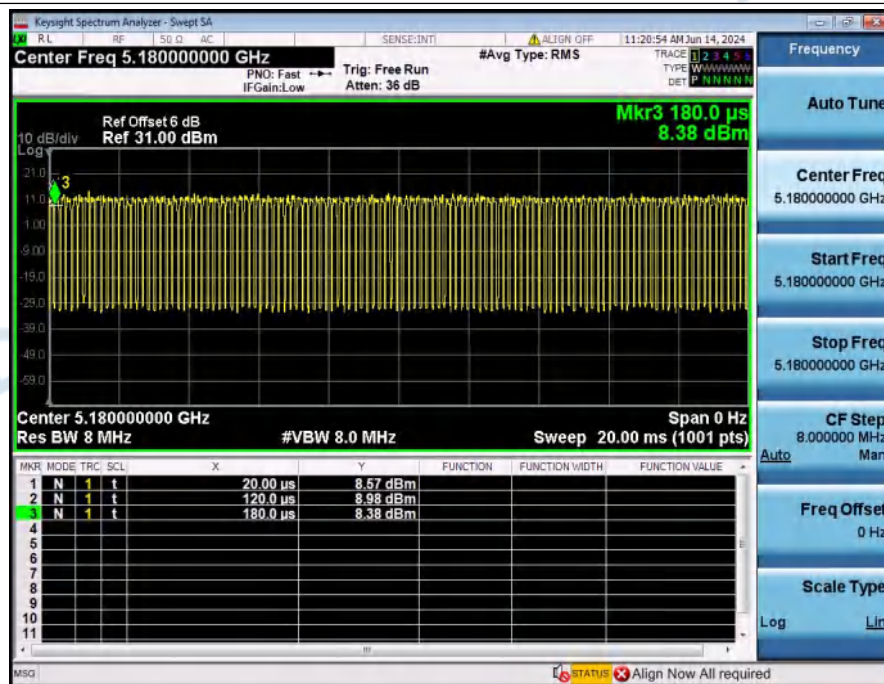
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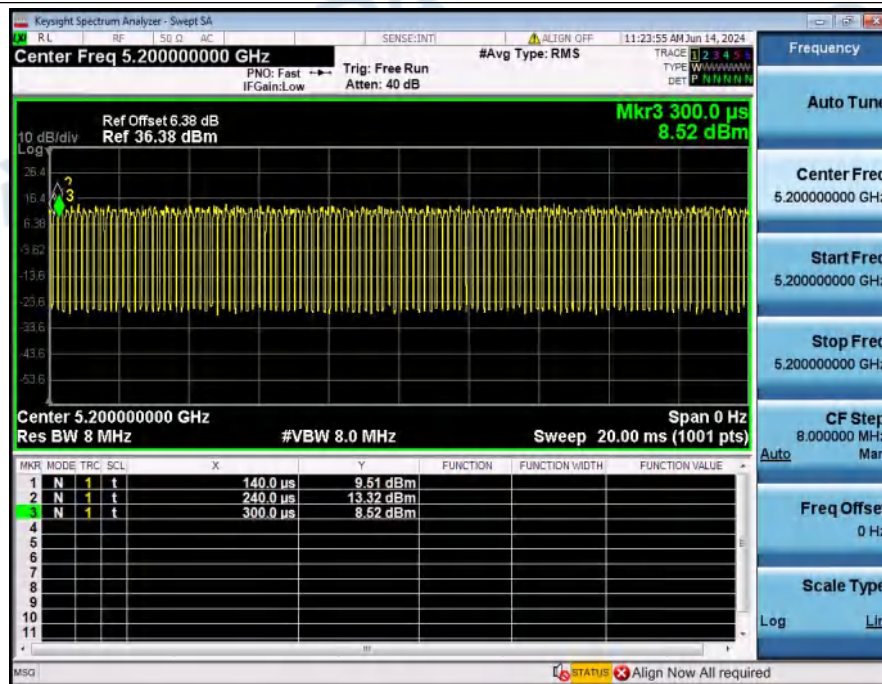
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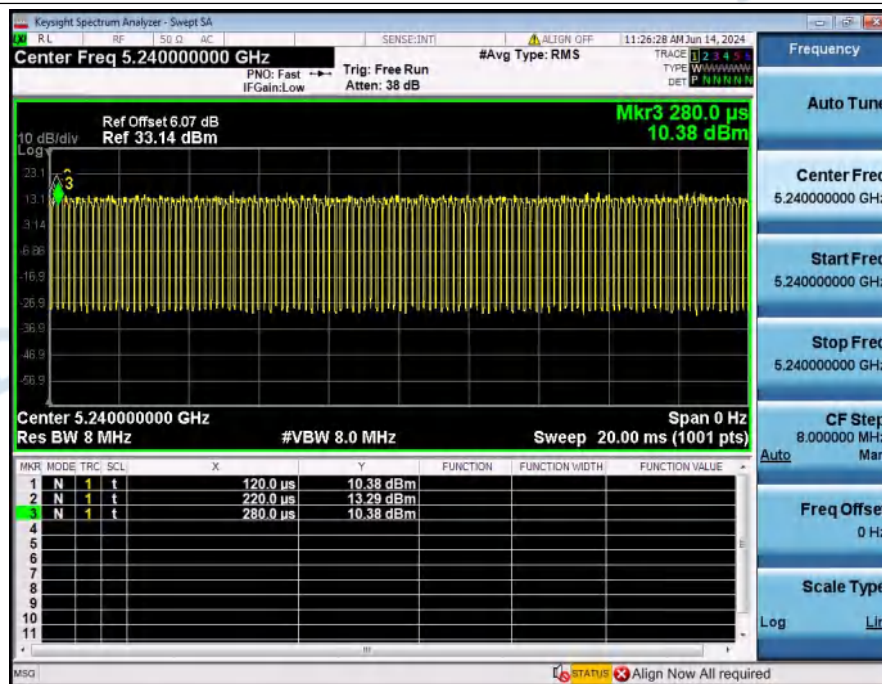
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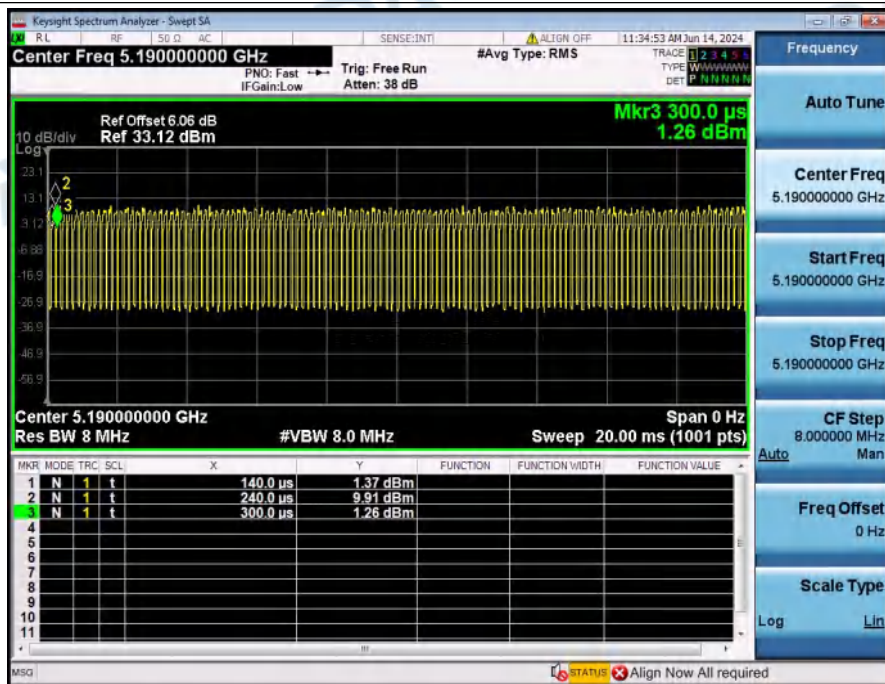
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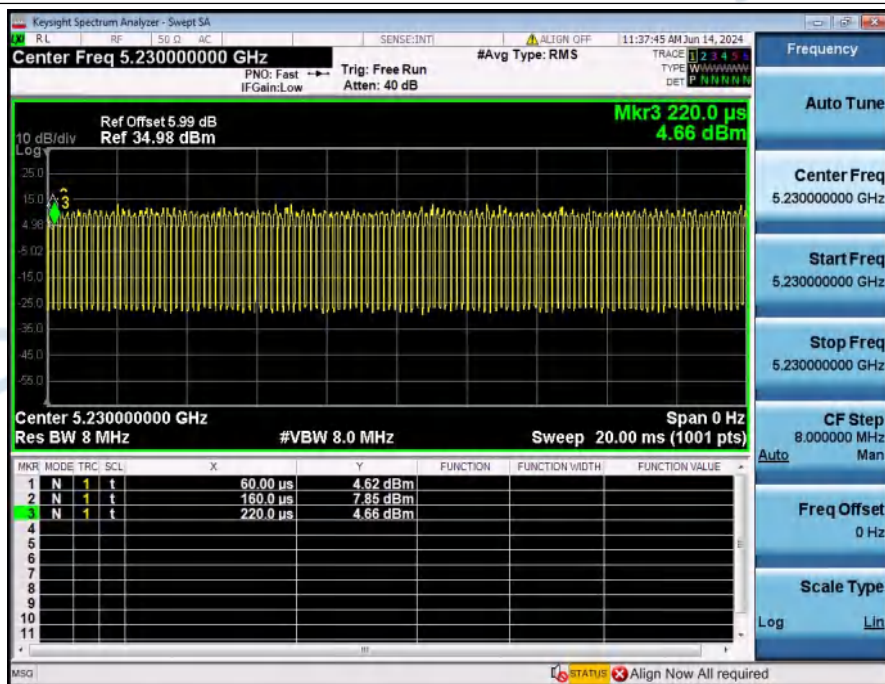
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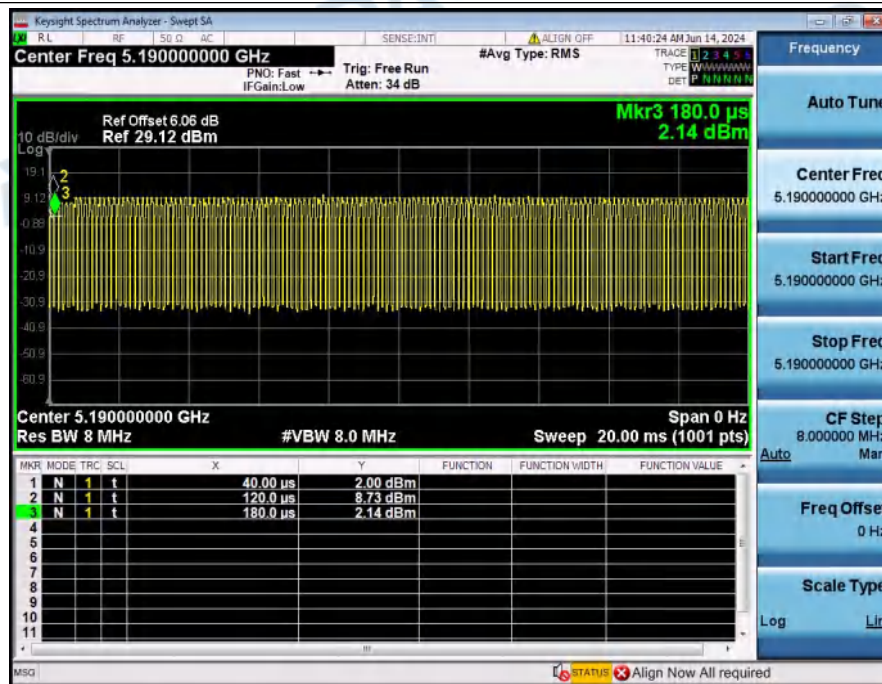
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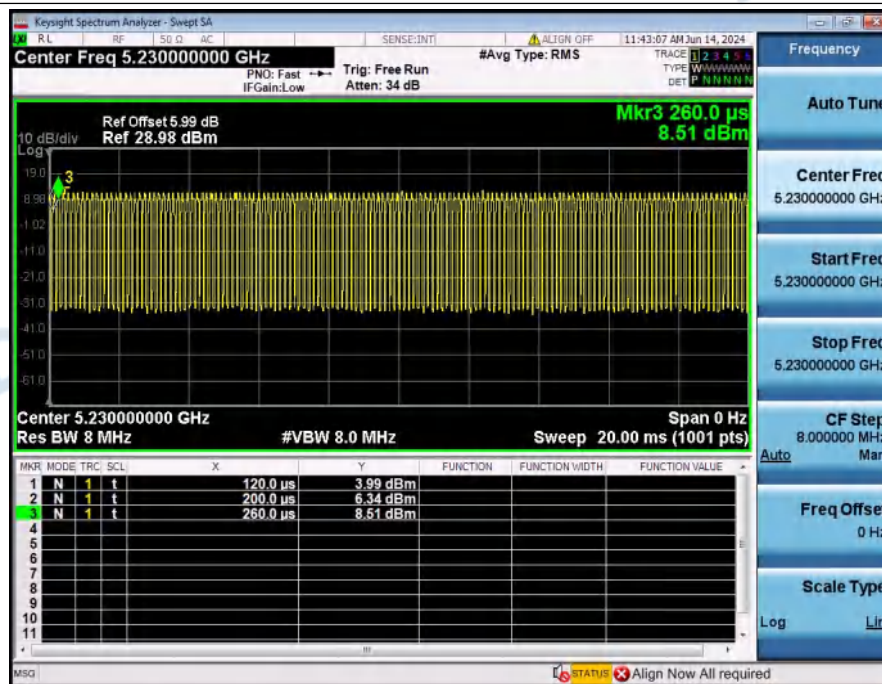
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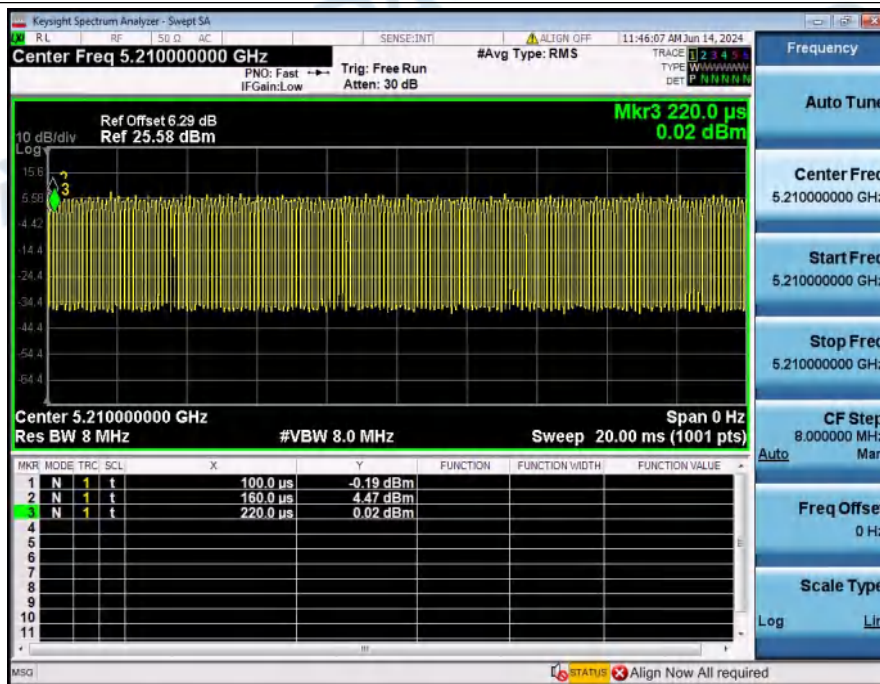
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Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5230



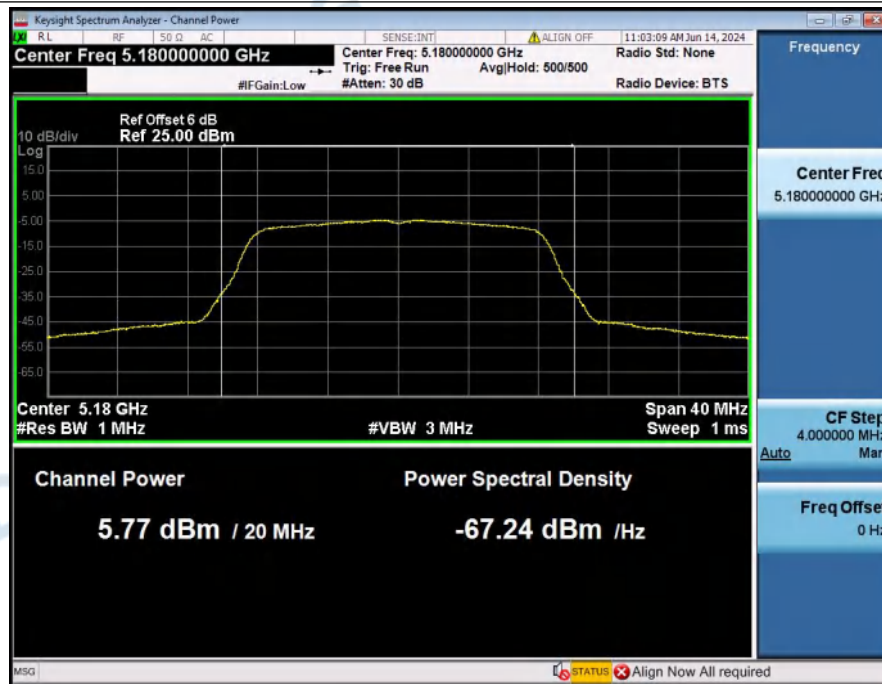
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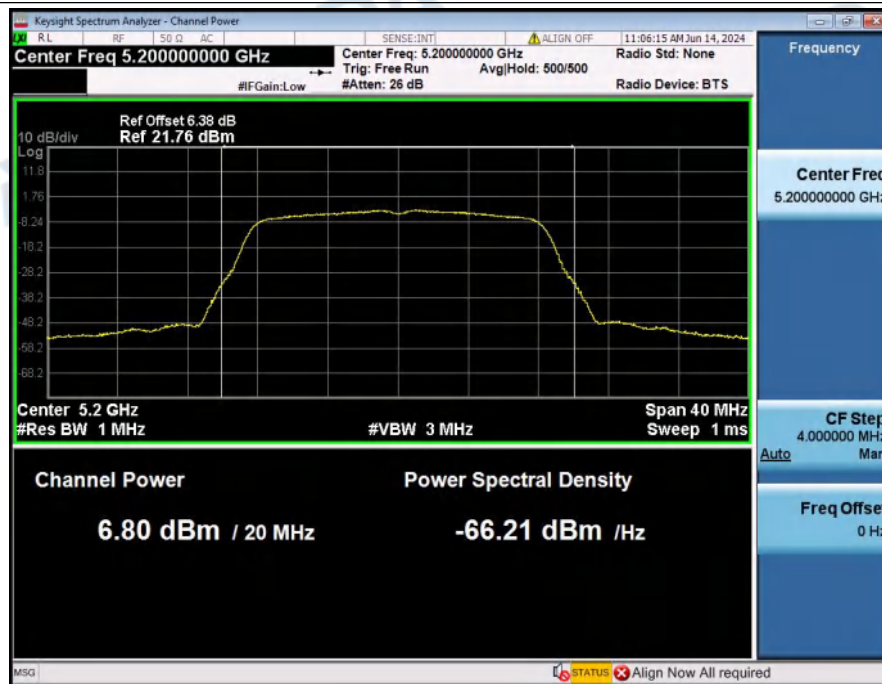
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5.77	1.38	7.15	24	Pass
NVNT	ANT1	802.11a	5200.00	6.80	1.25	8.05	24	Pass
NVNT	ANT1	802.11a	5240.00	7.95	1.25	9.20	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	4.70	1.38	6.08	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5.35	1.38	6.73	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	6.74	1.25	7.99	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	4.20	2.04	6.24	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	4.96	2.04	7.00	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	6.28	2.04	8.32	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	4.26	2.04	6.30	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5.84	2.04	7.88	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	3.70	2.43	6.13	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5.36	2.43	7.79	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	3.69	3.01	6.70	24	Pass

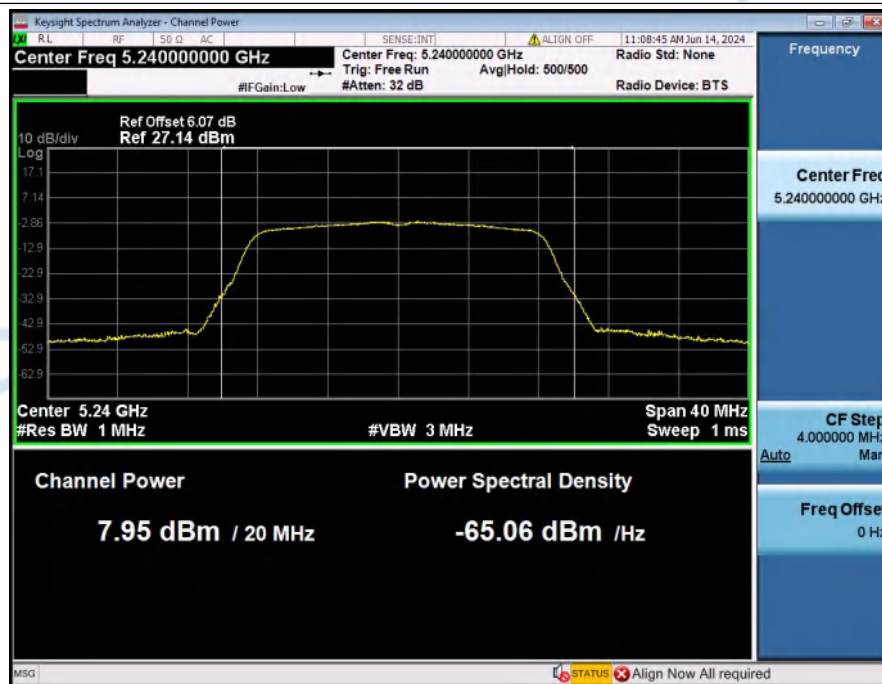
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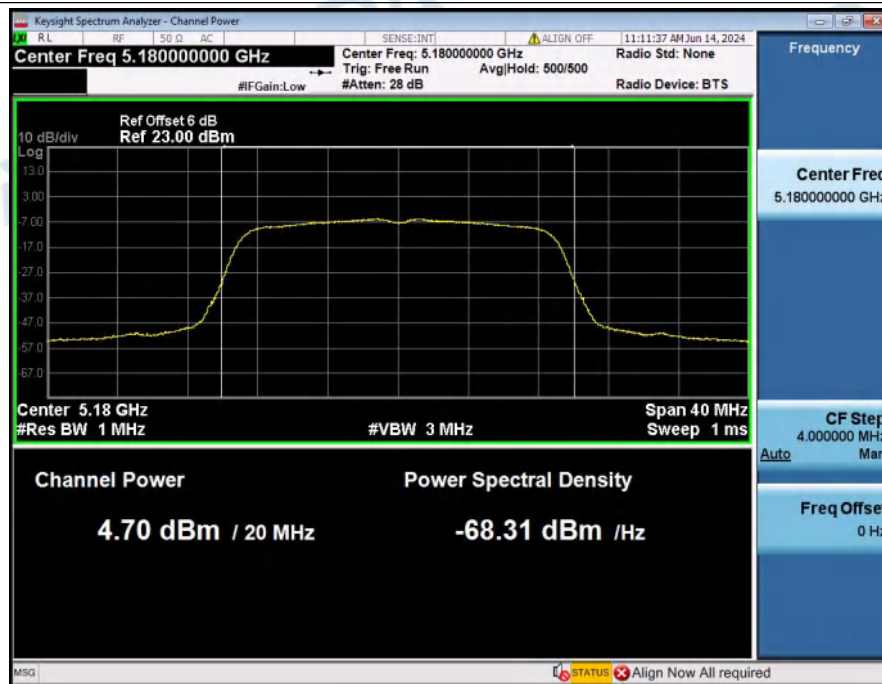
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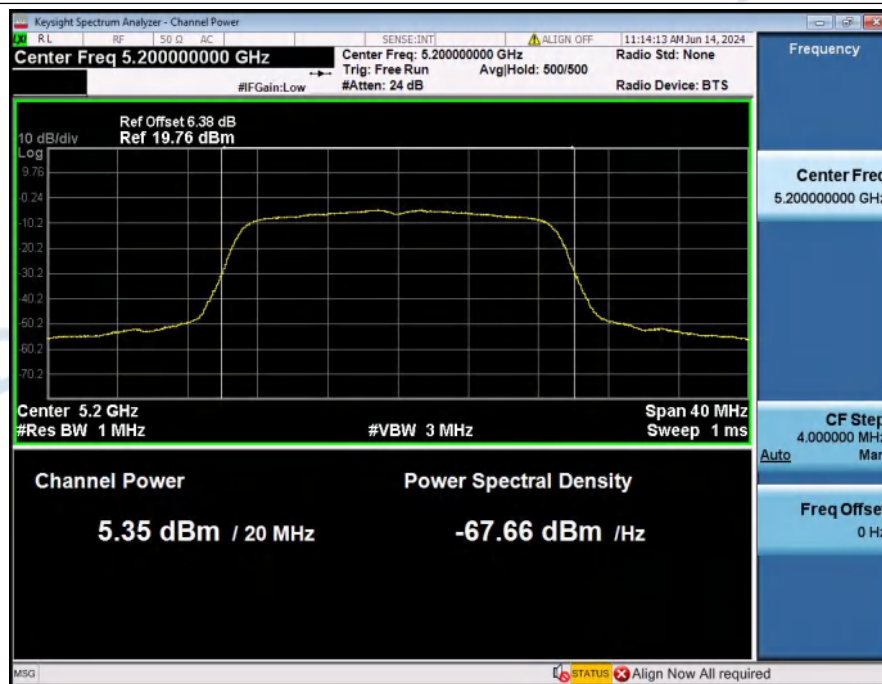
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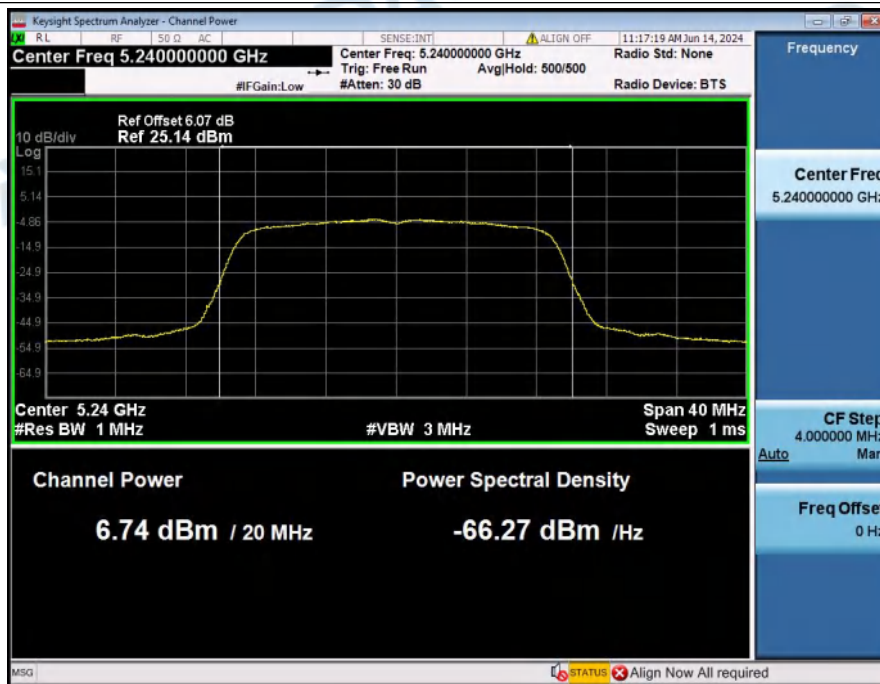
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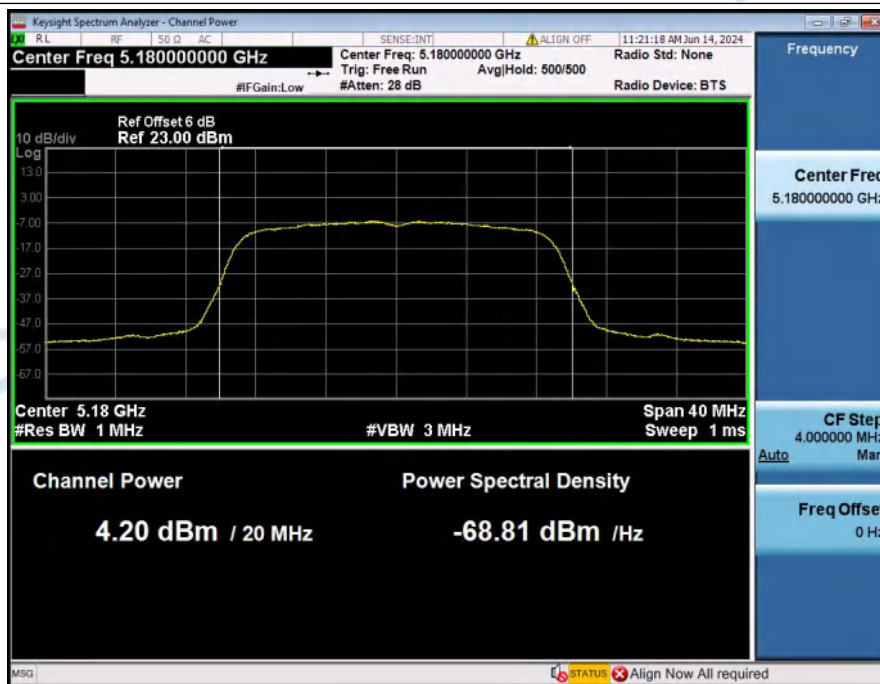
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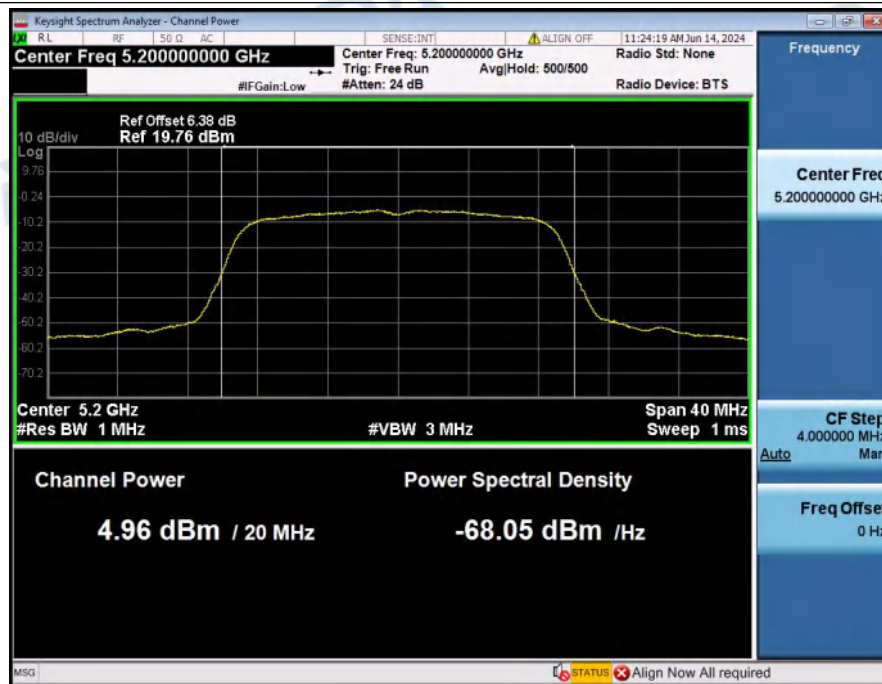
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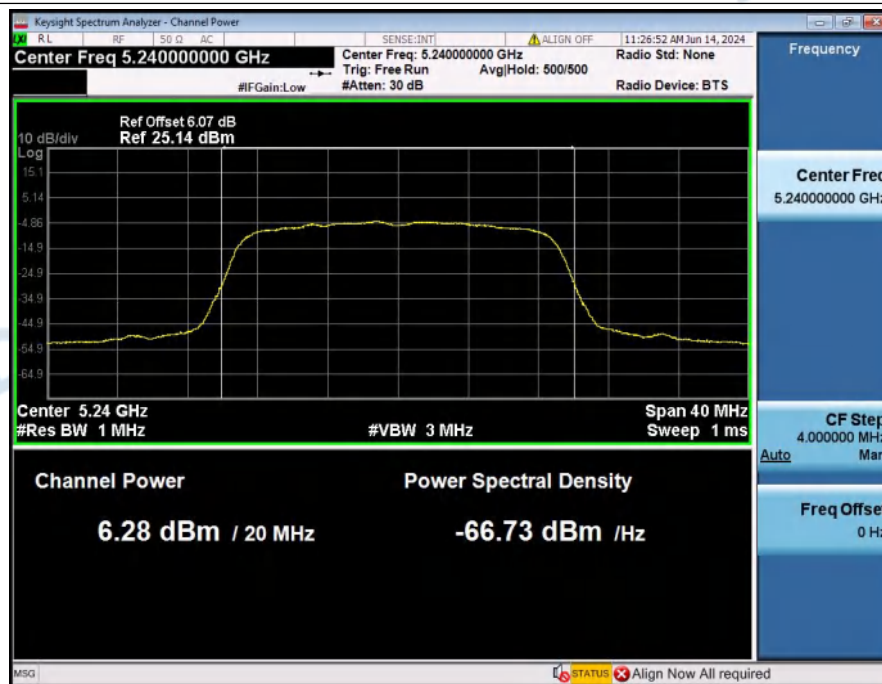
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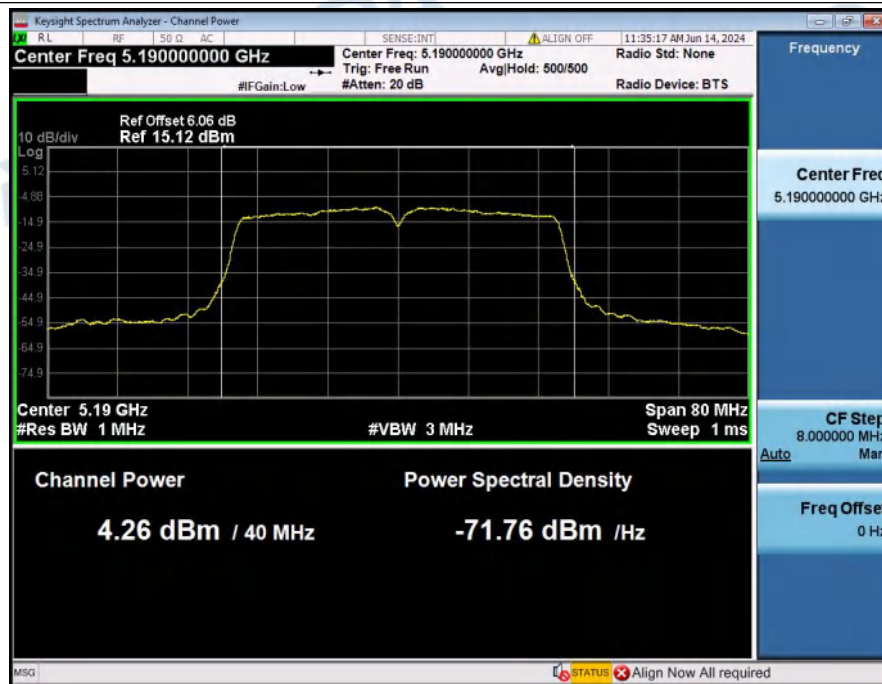
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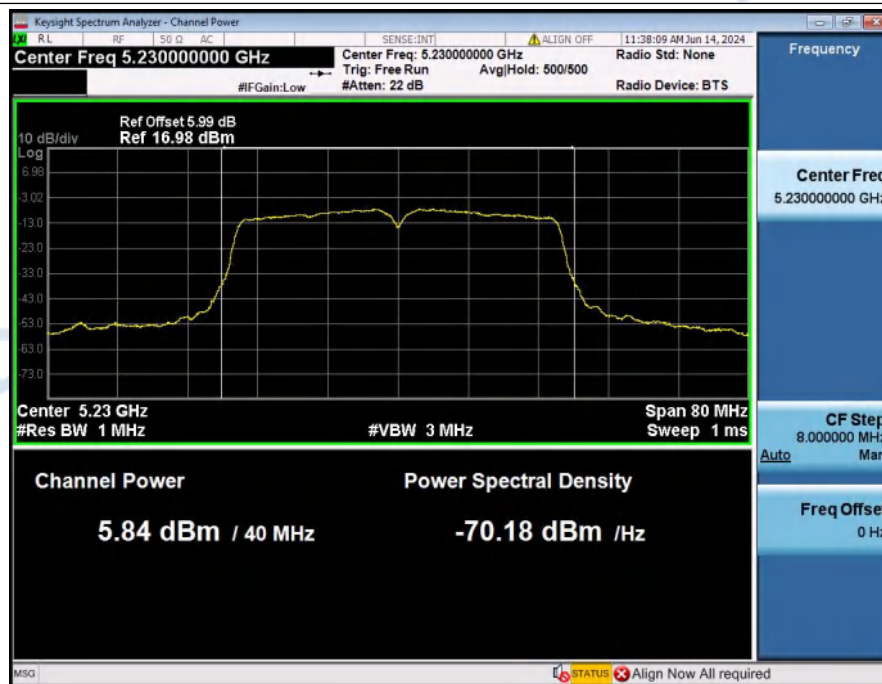
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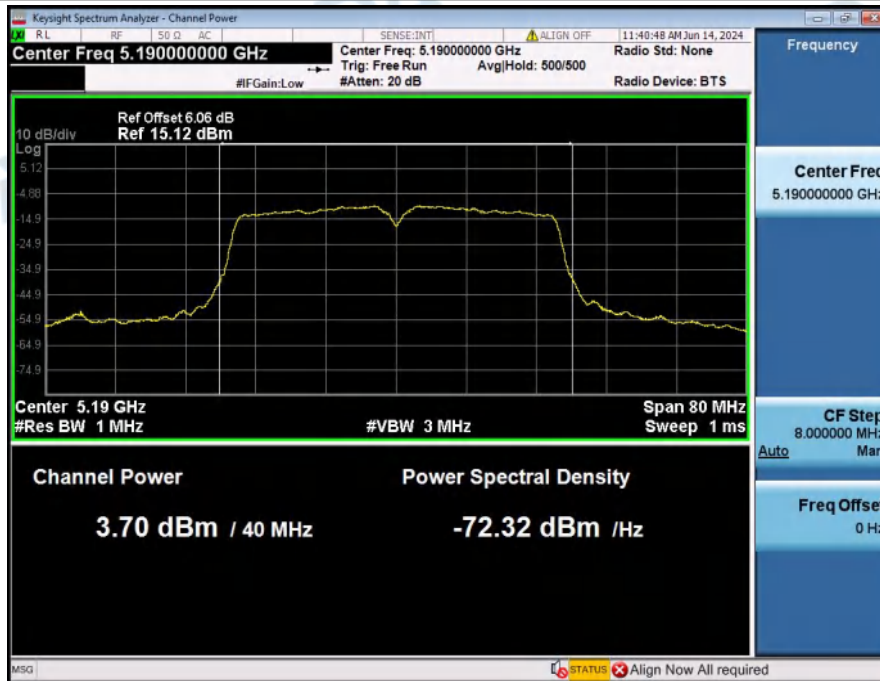
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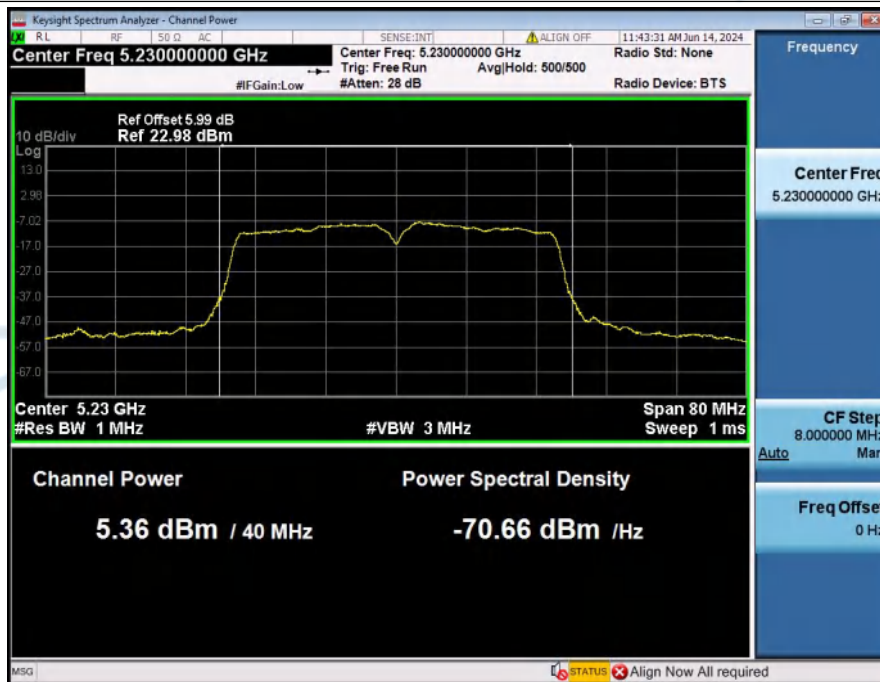
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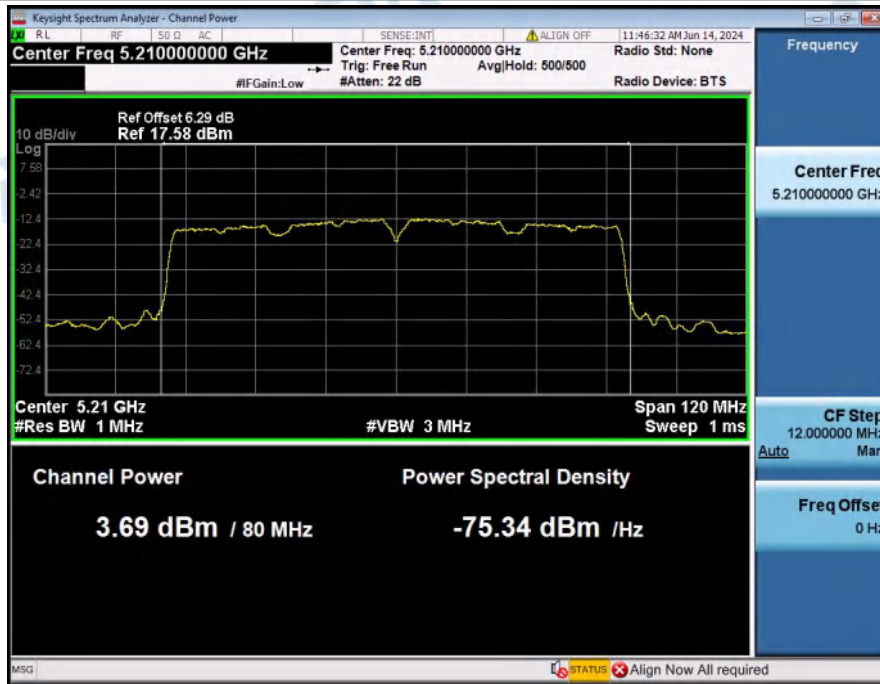
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Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT40)_5230_40M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT80)_5210_80M



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	-4.29	1.38	-2.91	11	Pass
NVNT	ANT1	802.11a	5200.00	-3.30	1.25	-2.05	11	Pass
NVNT	ANT1	802.11a	5240.00	-2.16	1.25	-0.91	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-5.35	1.38	-3.97	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-4.87	1.38	-3.49	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-3.63	1.25	-2.38	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-5.90	2.04	-3.86	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-5.17	2.04	-3.13	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-3.88	2.04	-1.84	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-8.57	2.04	-6.53	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-7.19	2.04	-5.15	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-8.80	2.43	-6.37	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-7.30	2.43	-4.87	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-11.77	3.01	-8.76	11	Pass

Power_Spectral_Density_NVNT_ANT1_802_11a_5180



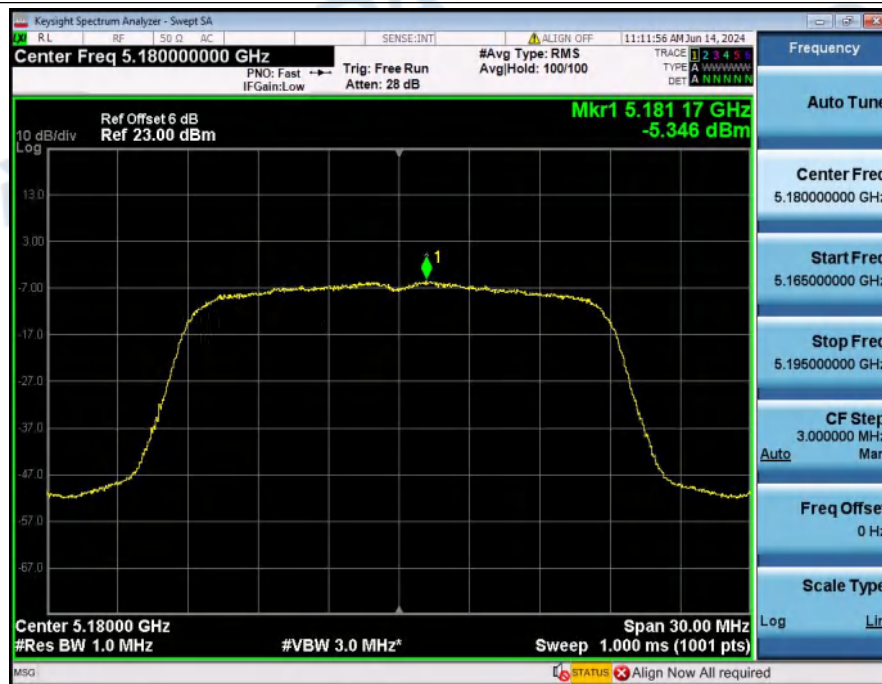
Power_Spectral_Density_NVNT_ANT1_802_11a_5200



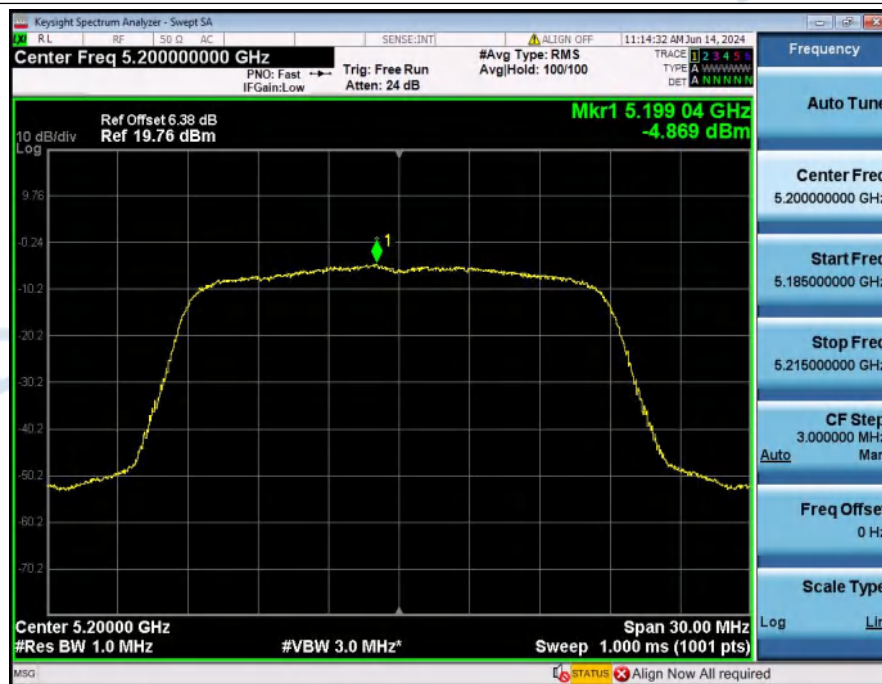
Power_Spectral_Density_NVNT_ANT1_802_11a_5240



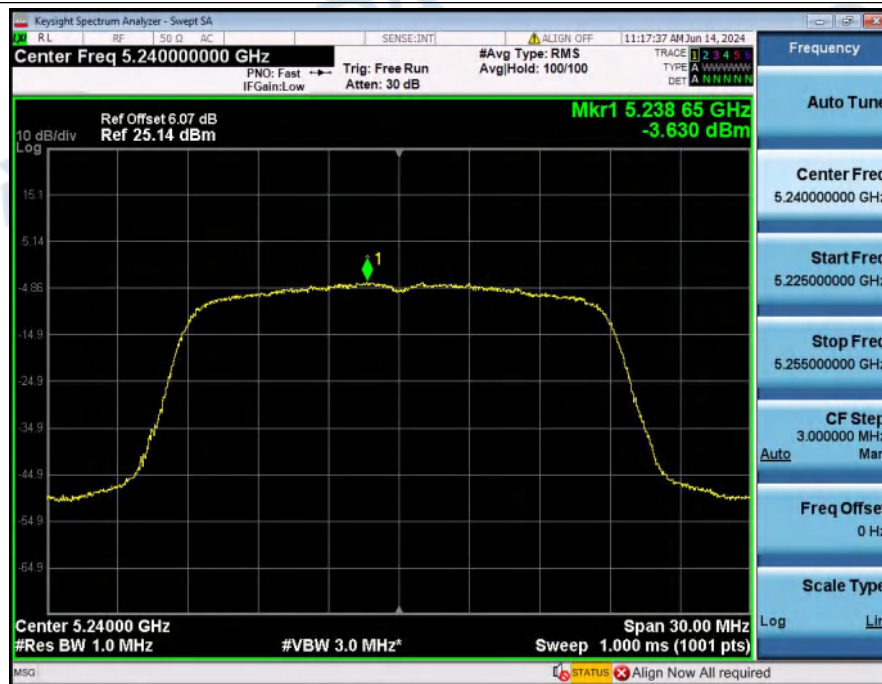
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180



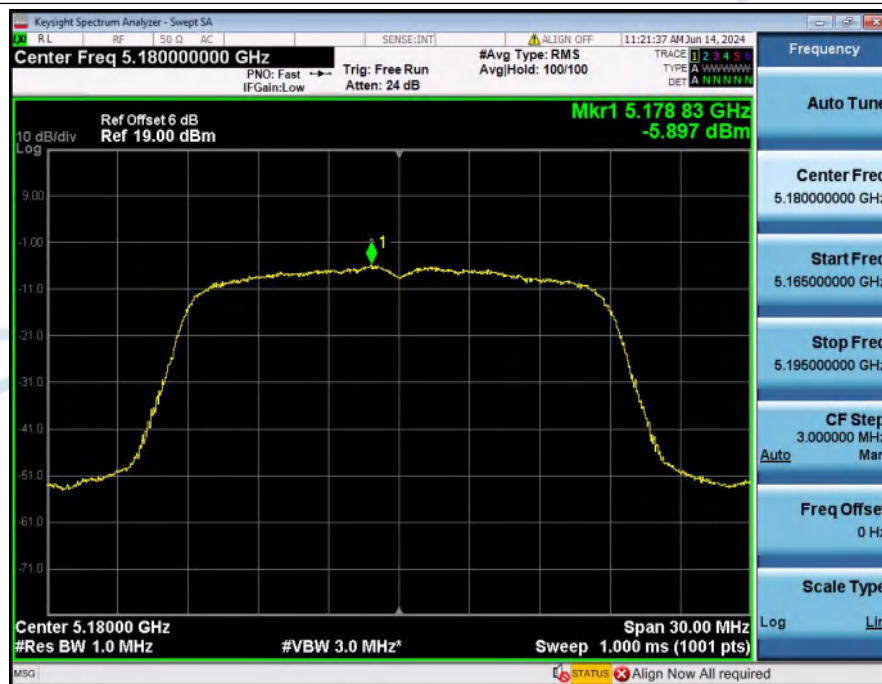
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



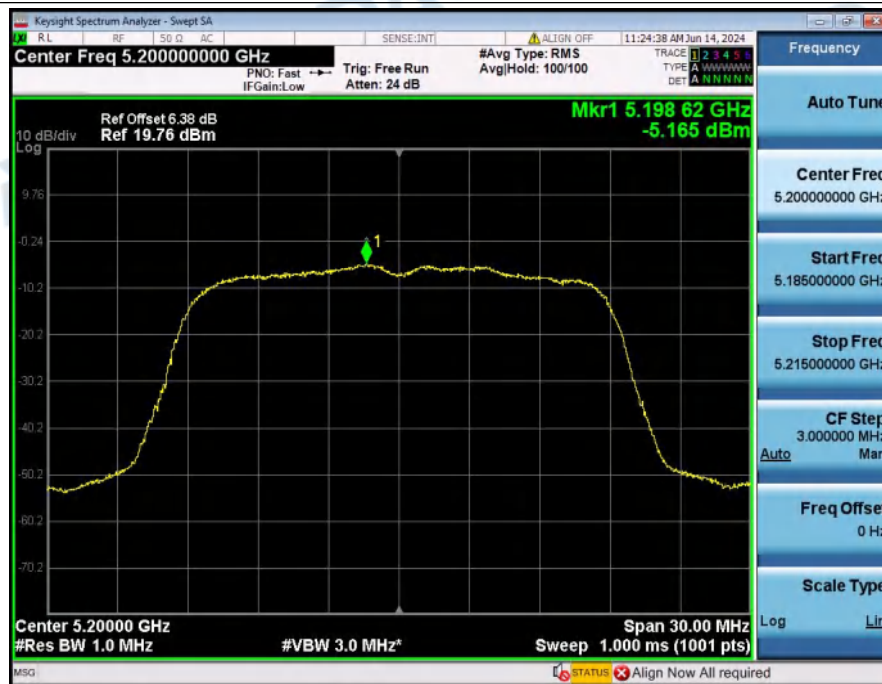
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240



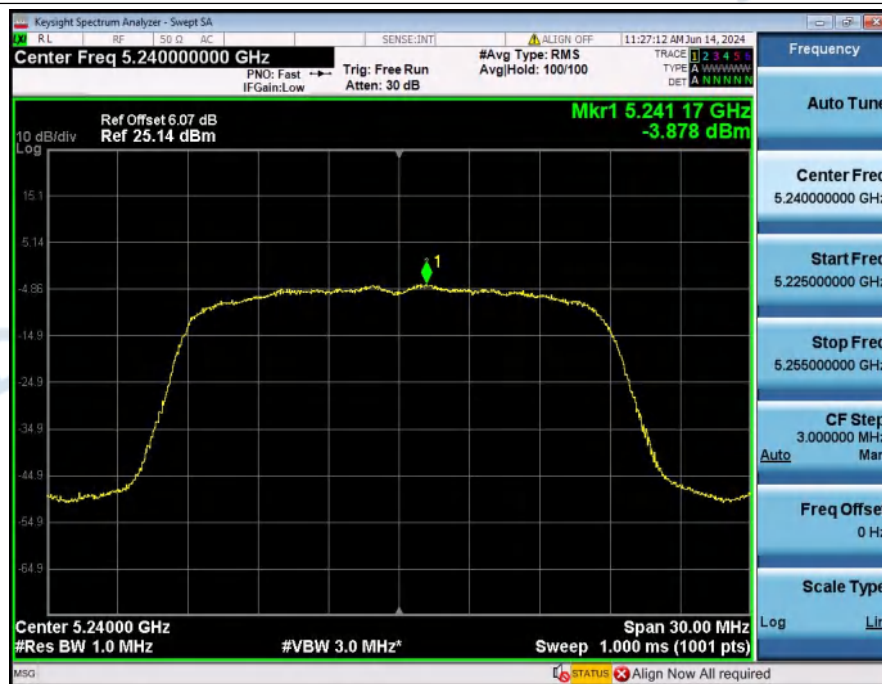
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180



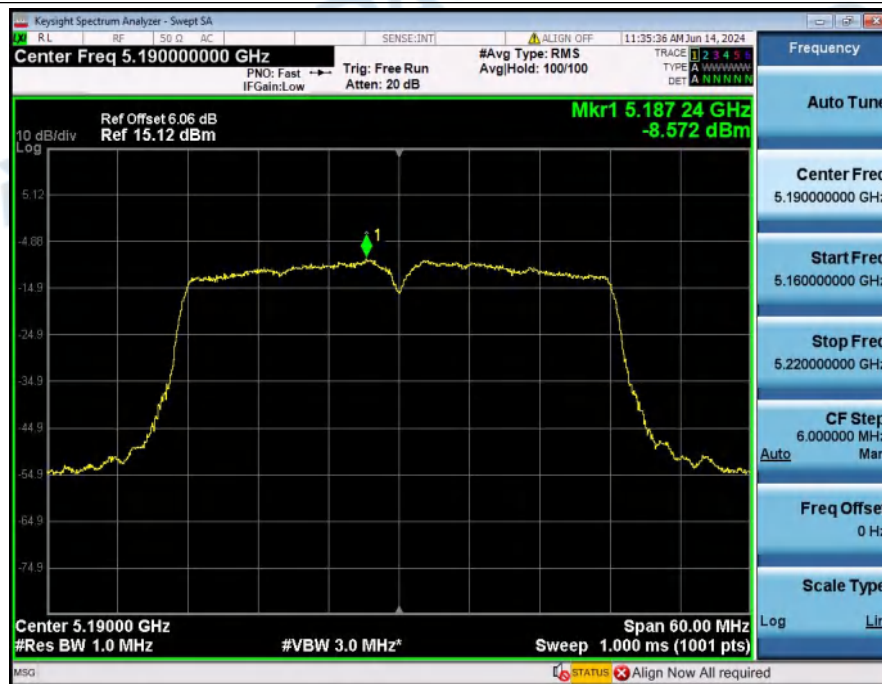
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190



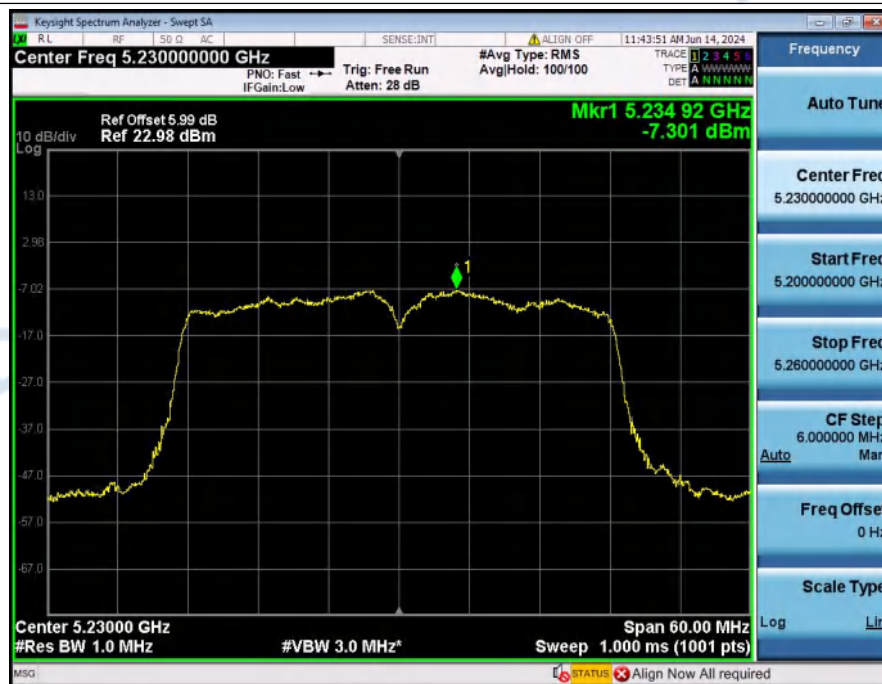
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230



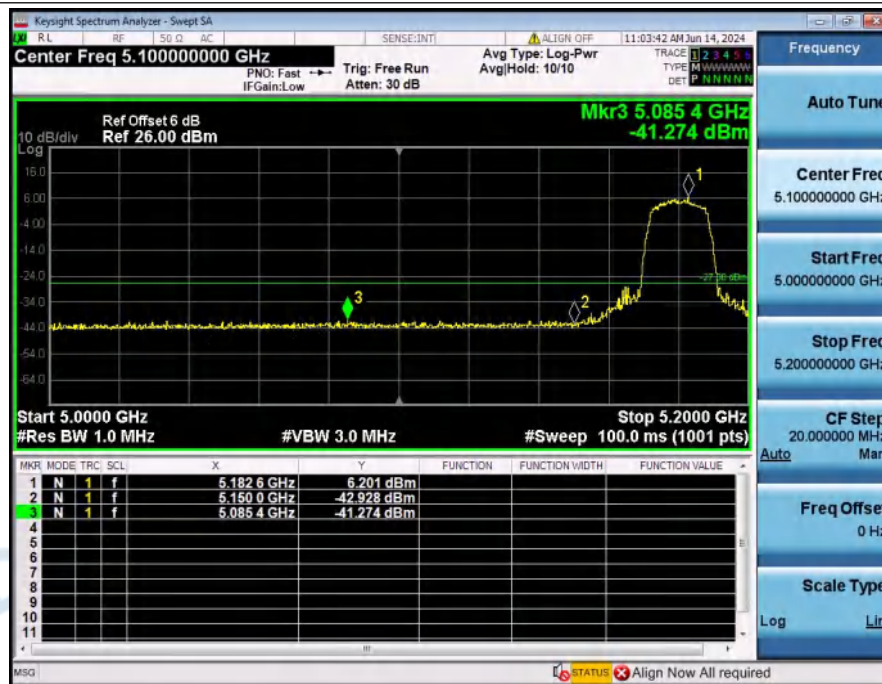
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210



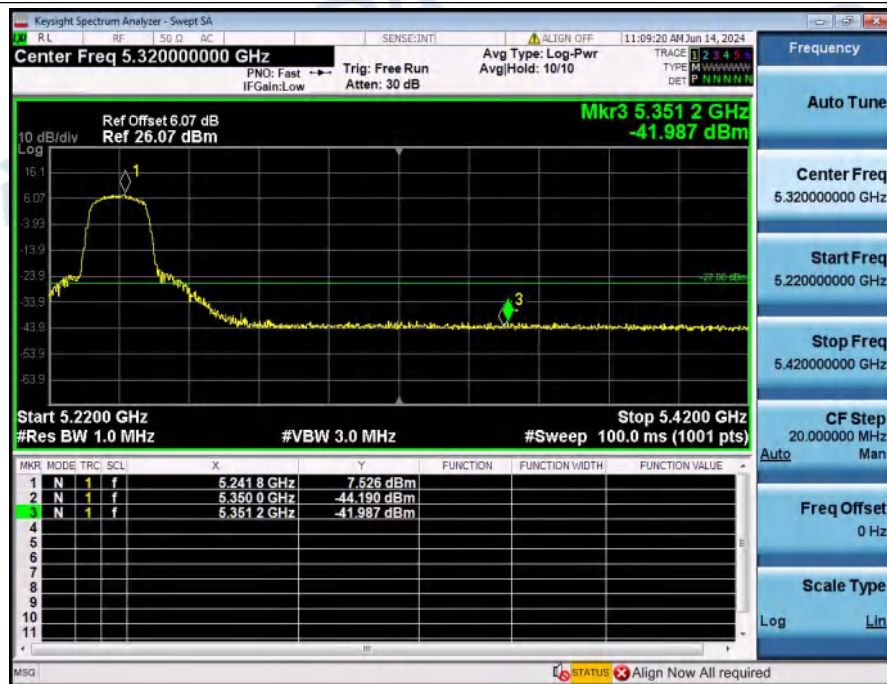
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5085.40	-41.27	-27	Pass
NVNT	ANT1	802.11a	5240.00	5351.20	-41.99	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5114.20	-41.35	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5392.80	-41.28	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5132.00	-40.94	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5363.20	-41.61	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5145.74	-40.86	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5360.57	-41.95	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5136.92	-40.39	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5379.47	-41.49	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5136.50	-38.97	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5361.62	-41.76	-27	Pass

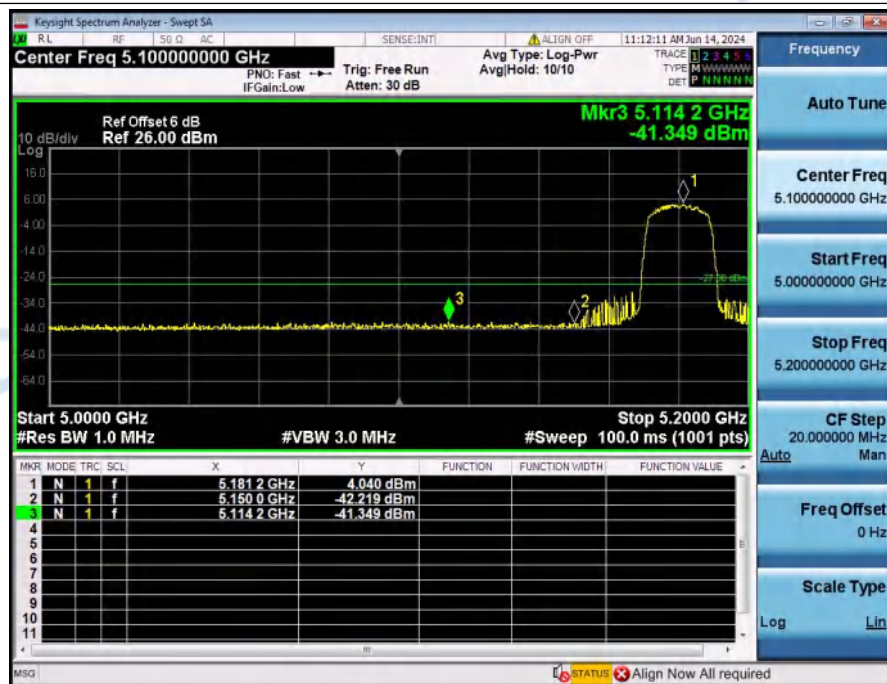
Bandedge_NVNT_ANT1_802_11a_5180



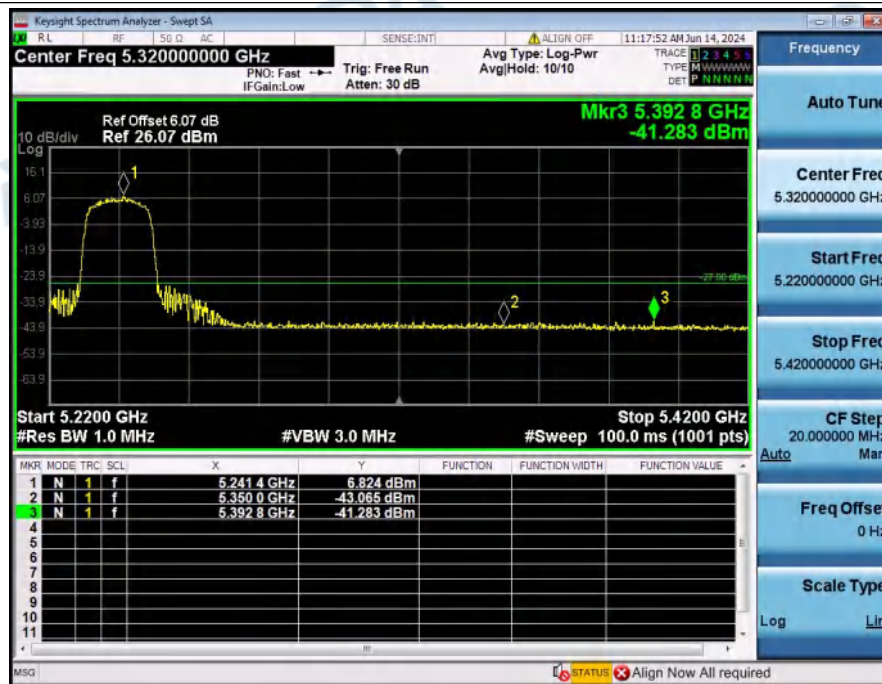
Bandedge_NVNT_ANT1_802_11a_5240



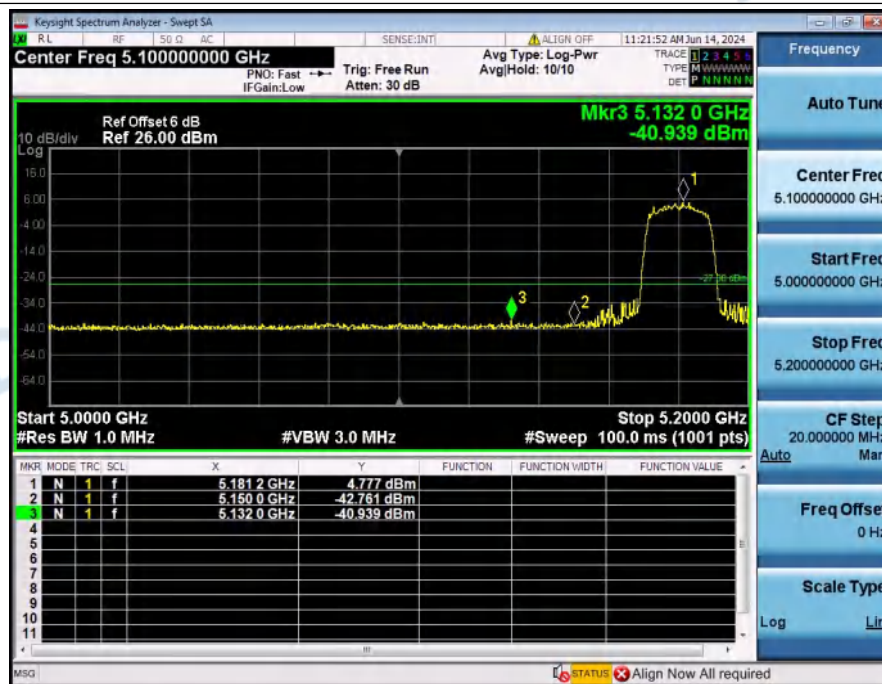
Bandedge_NVNT_ANT1_802_11n(HT20)_5180



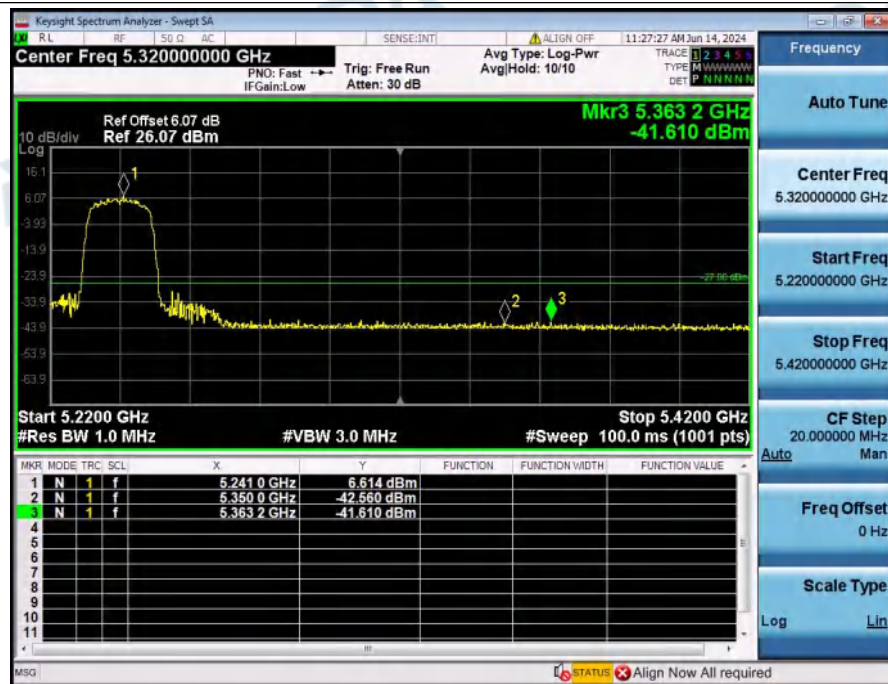
Bandedge_NVNT_ANT1_802_11n(HT20)_5240



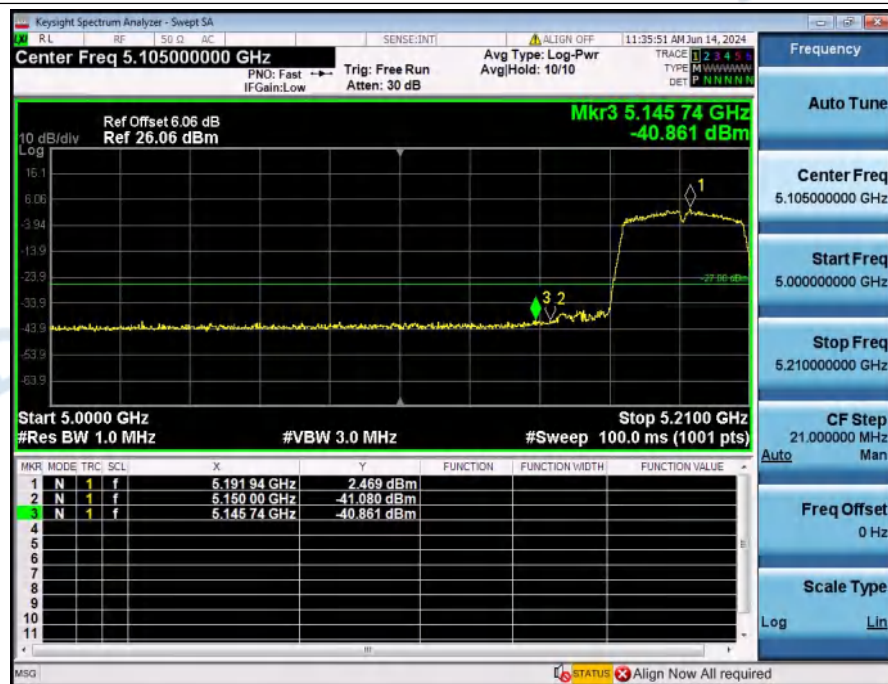
Bandedge_NVNT_ANT1_802_11ac(VHT20)_5180



Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



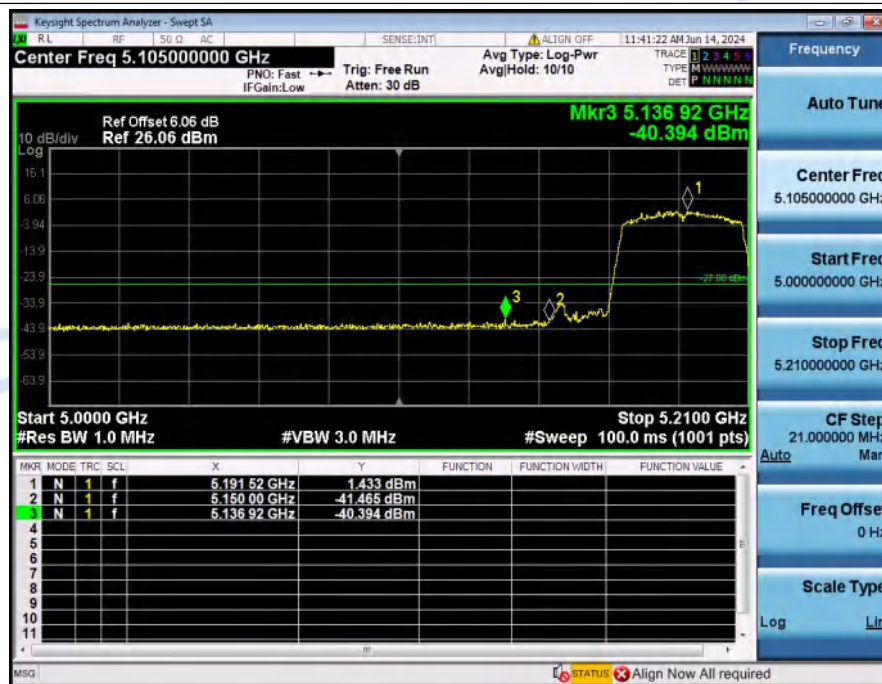
Bandedge_NVNT_ANT1_802_11n(HT40)_5190



Bandedge_NVNT_ANT1_802_11n(HT40)_5230



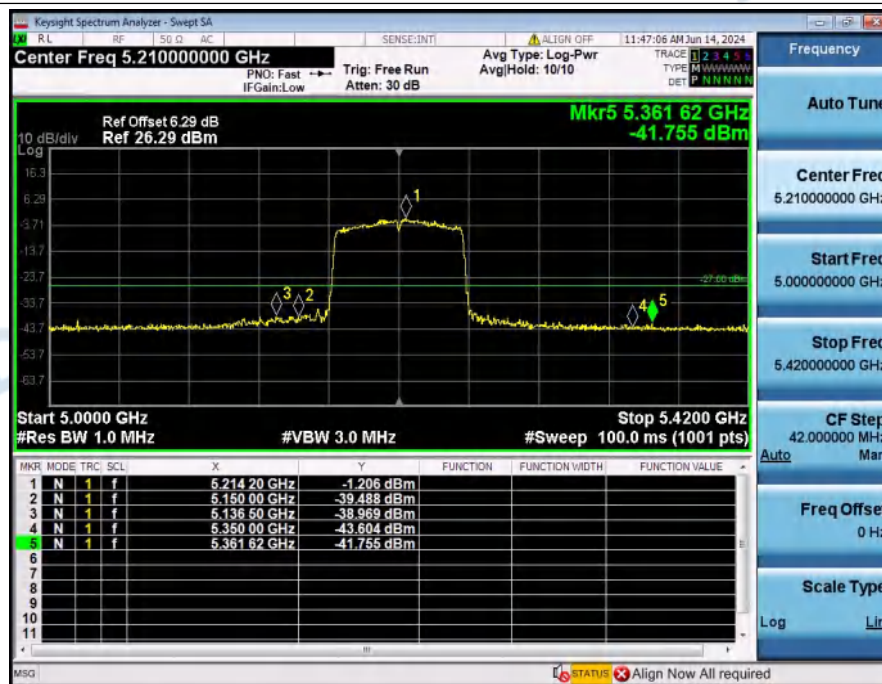
Bandedge_NVNT_ANT1_802_11ac(VHT40)_5190



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



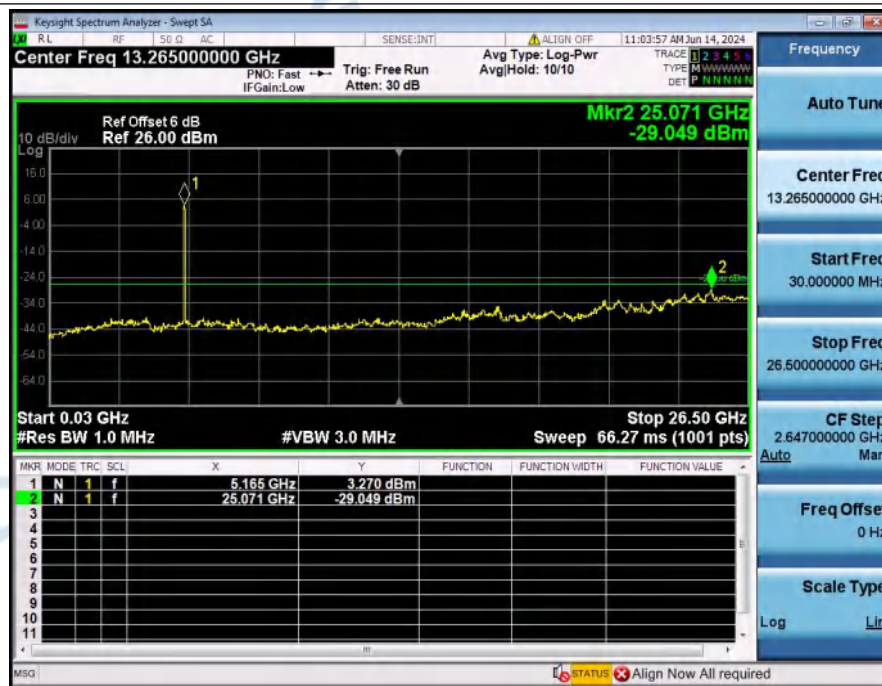
Bandedge_NVNT_ANT1_802_11ac(VHT80)_5210



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	25070.62	-29.05	-27	Pass
NVNT	ANT1	802.11a	5200.00	24938.27	-29.54	-27	Pass
NVNT	ANT1	802.11a	5240.00	24991.21	-29.66	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	24541.22	-29.21	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	24567.69	-29.27	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	25044.15	-28.97	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25017.68	-28.18	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	24594.16	-28.83	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	24938.27	-29.40	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	24991.21	-29.34	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	25070.62	-29.72	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	24964.74	-29.87	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	24514.75	-29.72	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	25017.68	-29.21	-27	Pass

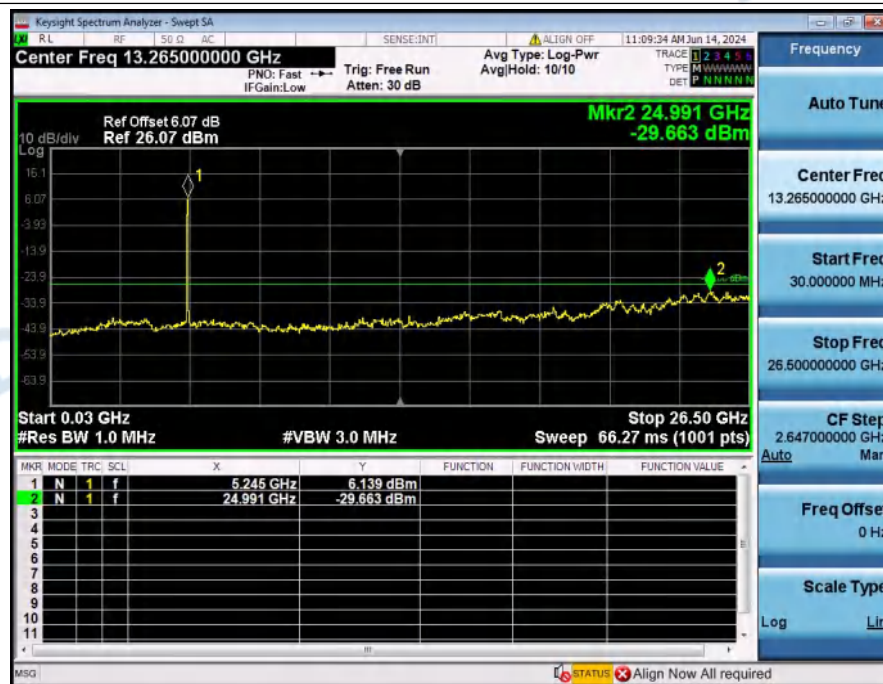
Spurious_Emission_NVNT_ANT1_802_11a_5180_20M



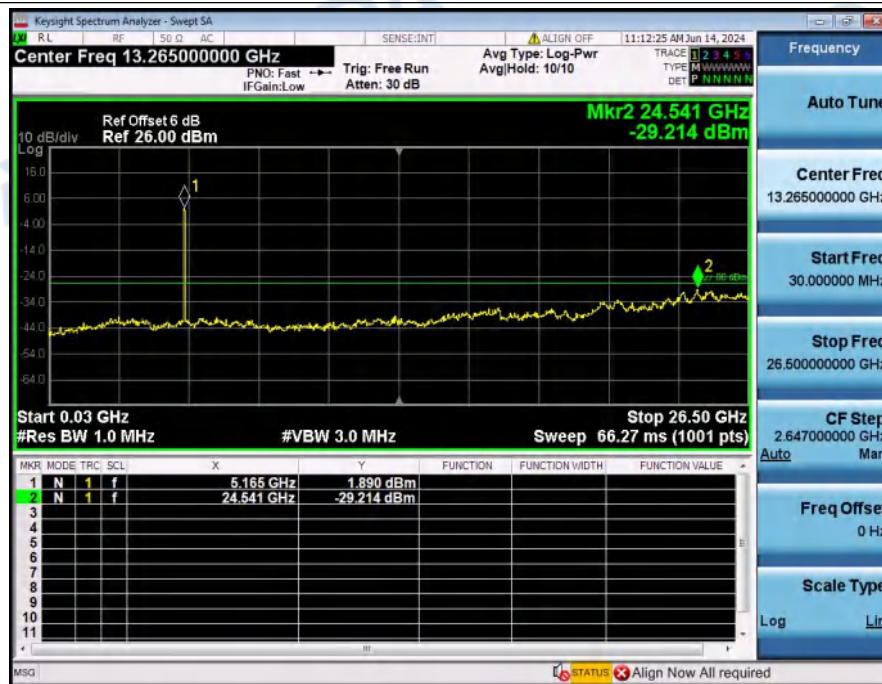
Spurious_Emission_NVNT_ANT1_802_11a_5200_20M



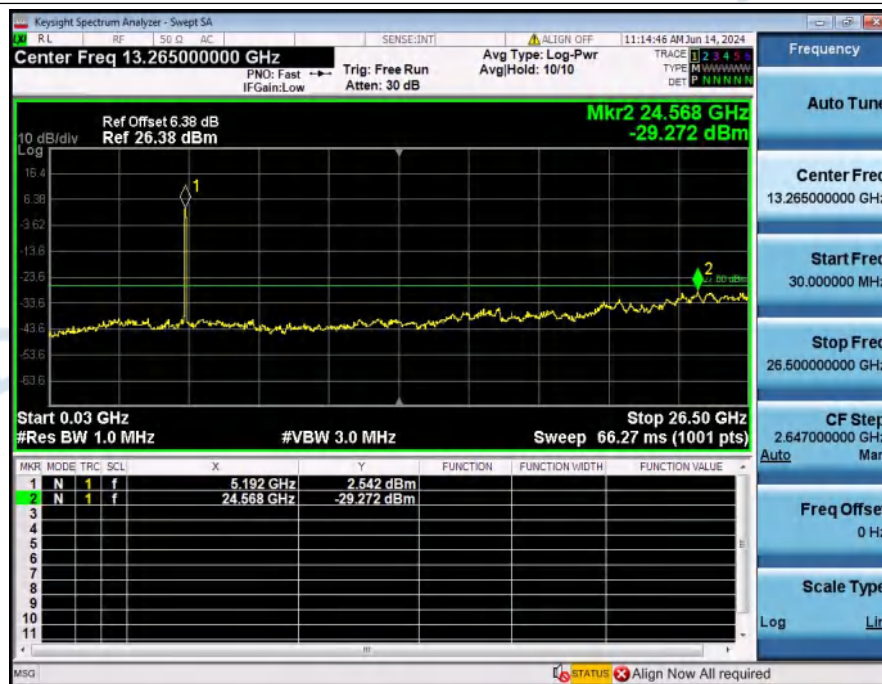
Spurious_Emission_NVNT_ANT1_802_11a_5240_20M



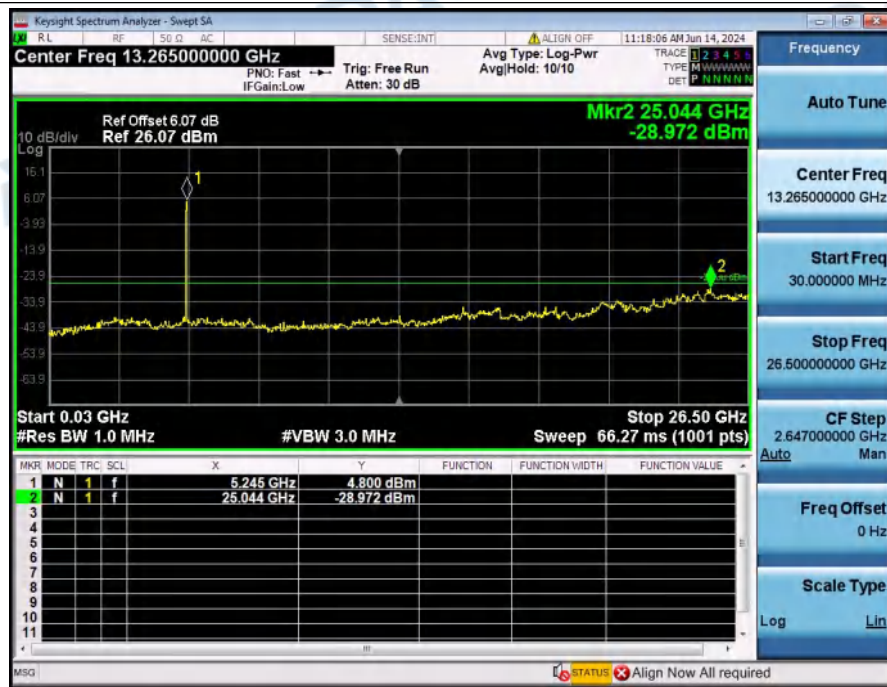
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5180_20M



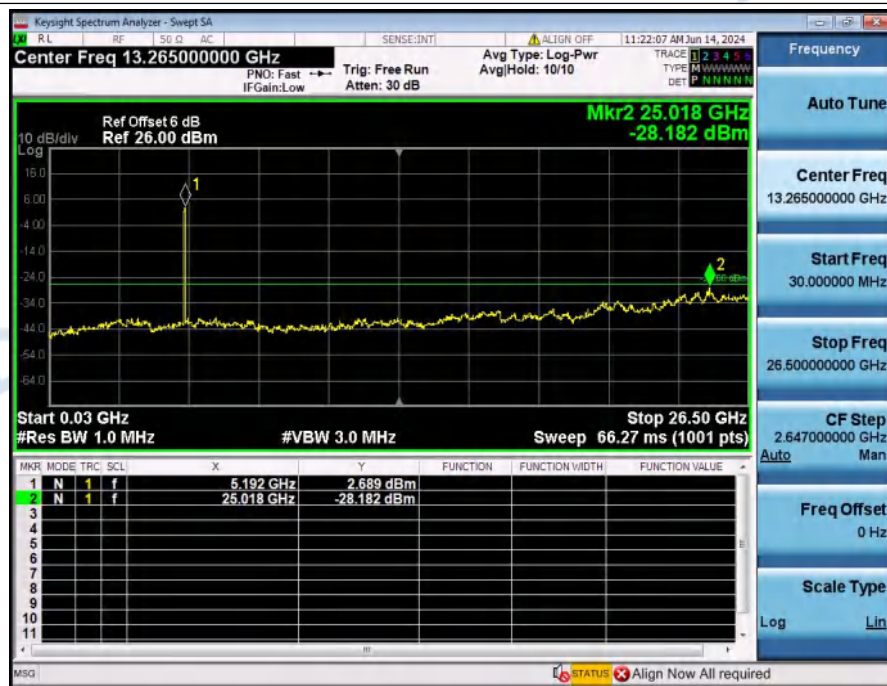
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5200_20M



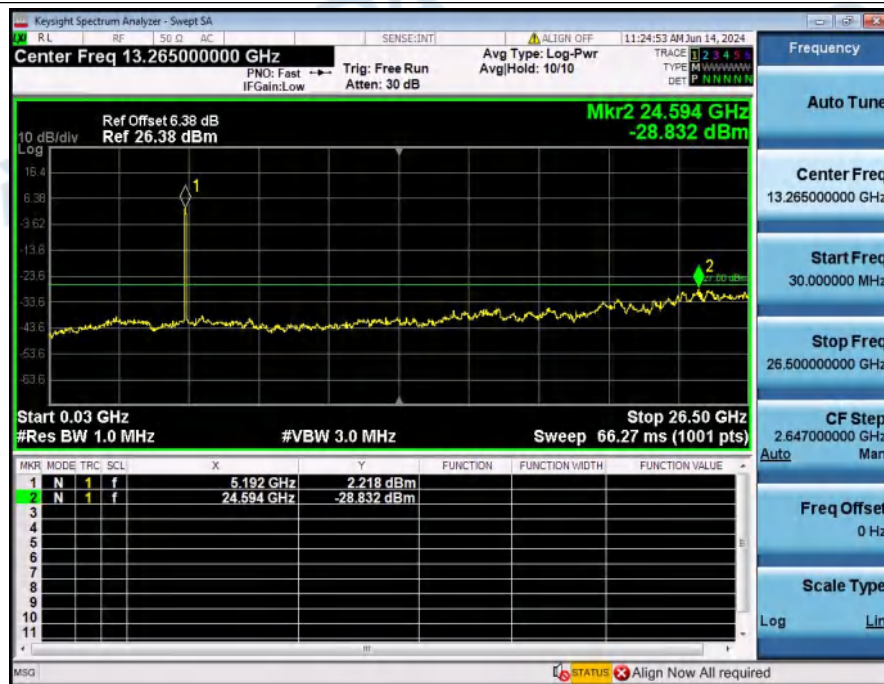
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5240_20M



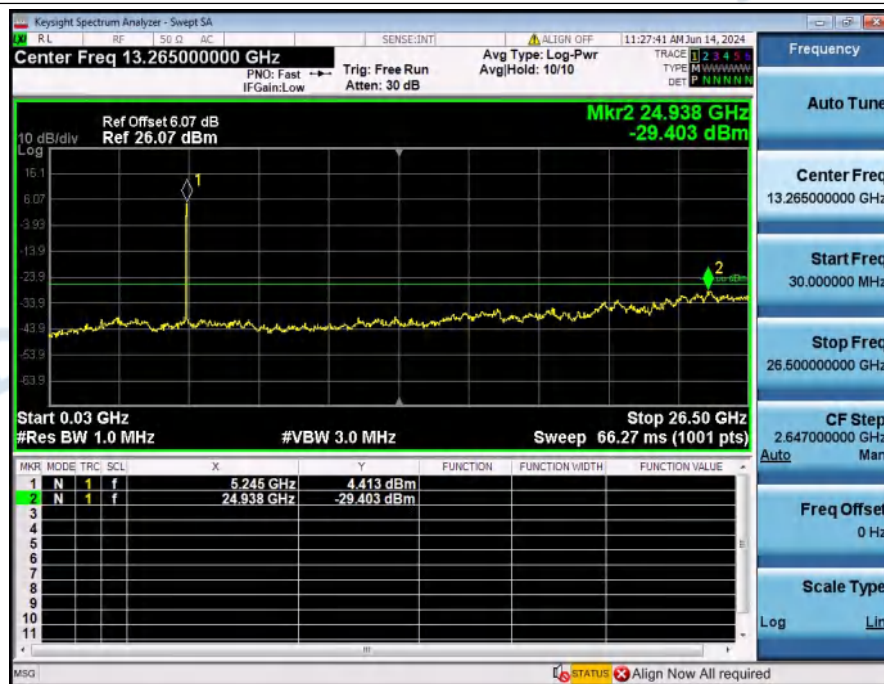
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5180_20M



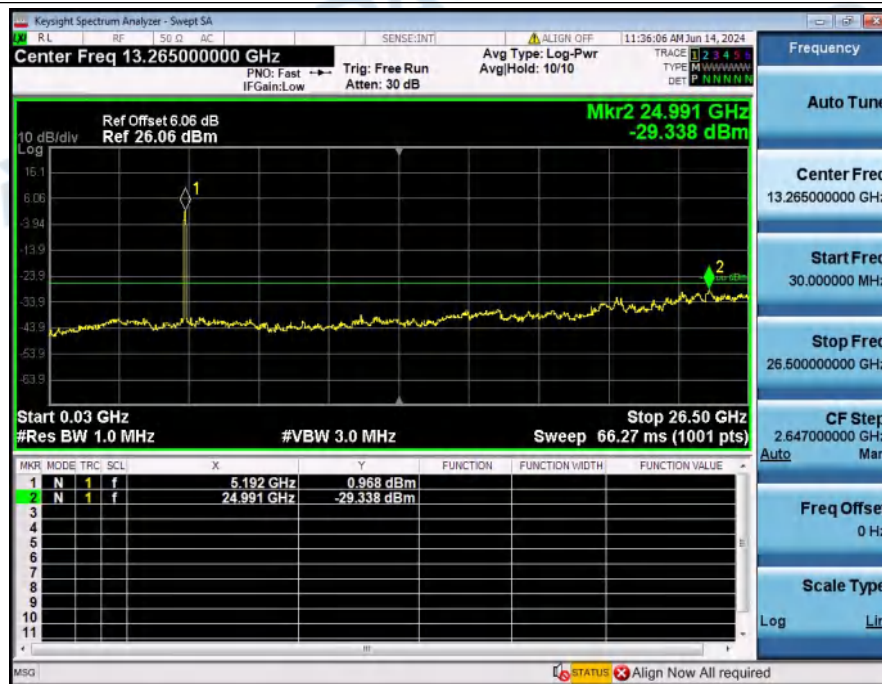
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5200_20M



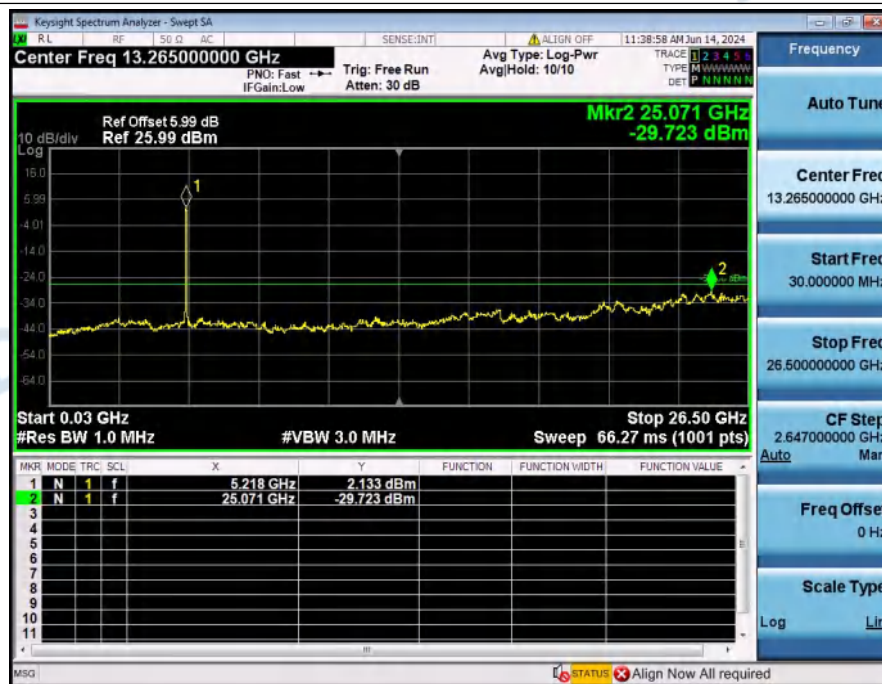
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5240_20M



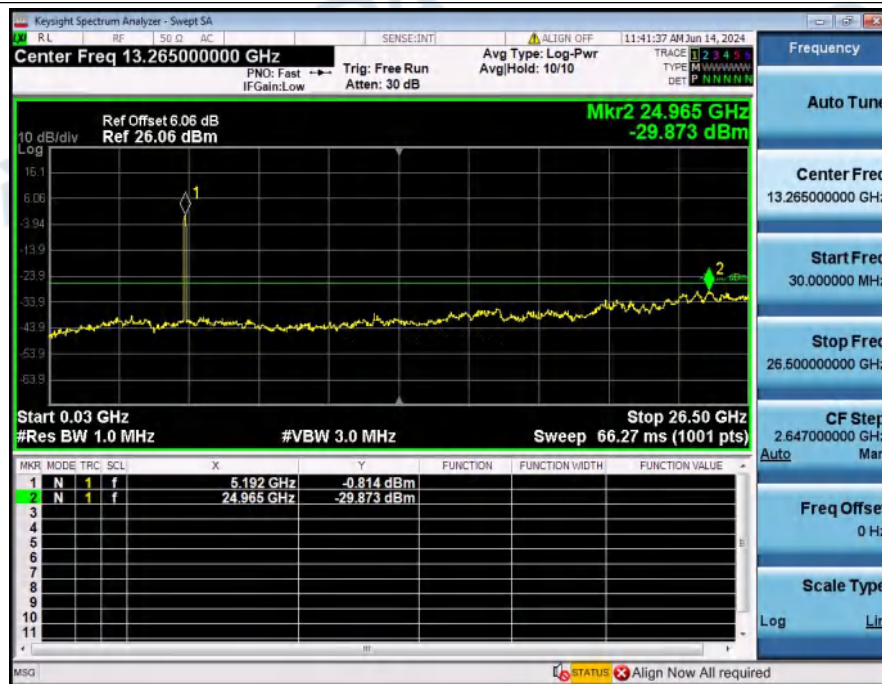
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5190_40M



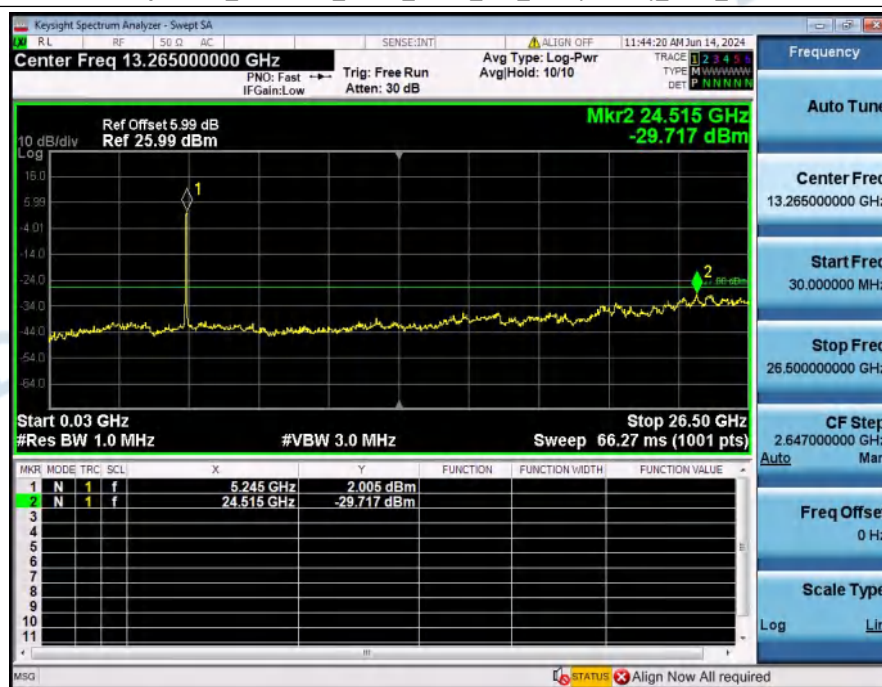
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5230_40M



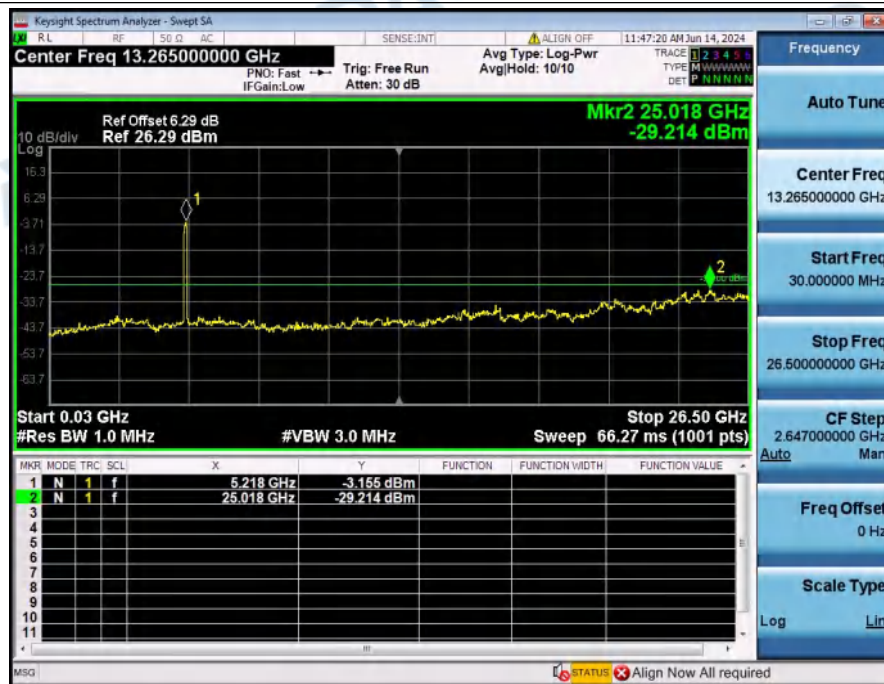
Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5190_40M



Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5230_40M



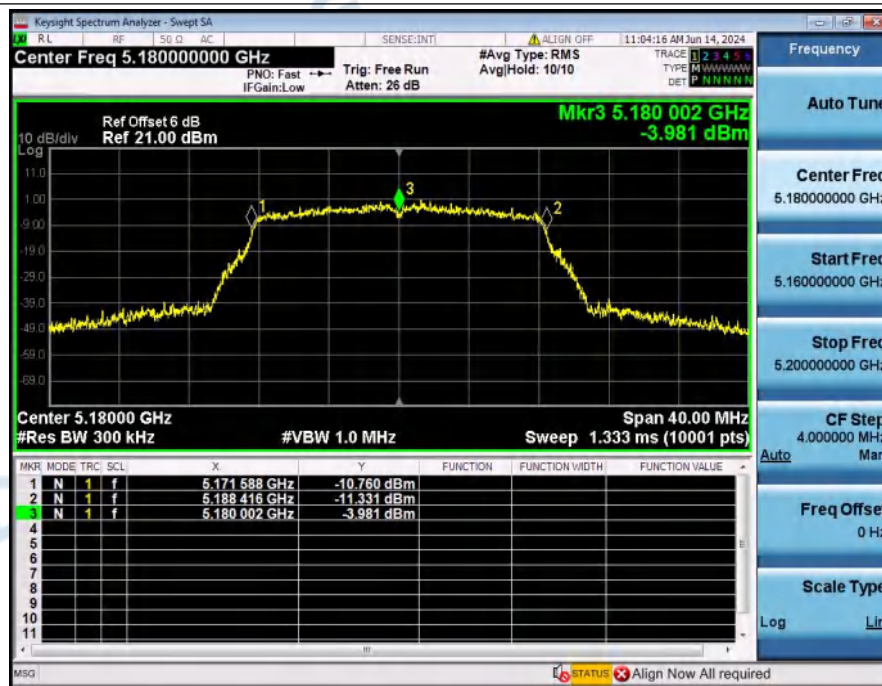
Spurious_Emission_NVNT_ANT1_802_11ac(VHT80)_5210_80M



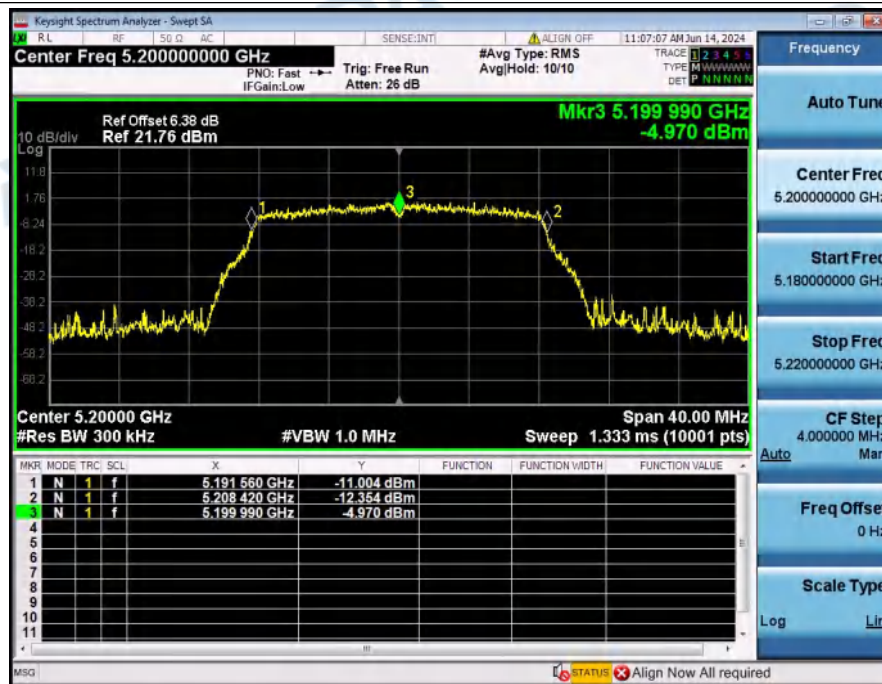
7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fi(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.002	5171.588	5188.416	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5199.990	5191.560	5208.420	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.036	5231.608	5248.464	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5180.006	5171.040	5188.972	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5199.998	5191.024	5208.972	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5240.024	5231.068	5248.980	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5179.998	5171.044	5188.952	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5200.012	5191.052	5208.972	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5240.024	5231.060	5248.988	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5190.000	5171.776	5208.224	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5230.012	5211.800	5248.224	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5190.012	5171.824	5208.200	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5230.020	5211.872	5248.168	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5210.060	5172.068	5248.052	5150~5250	Pass

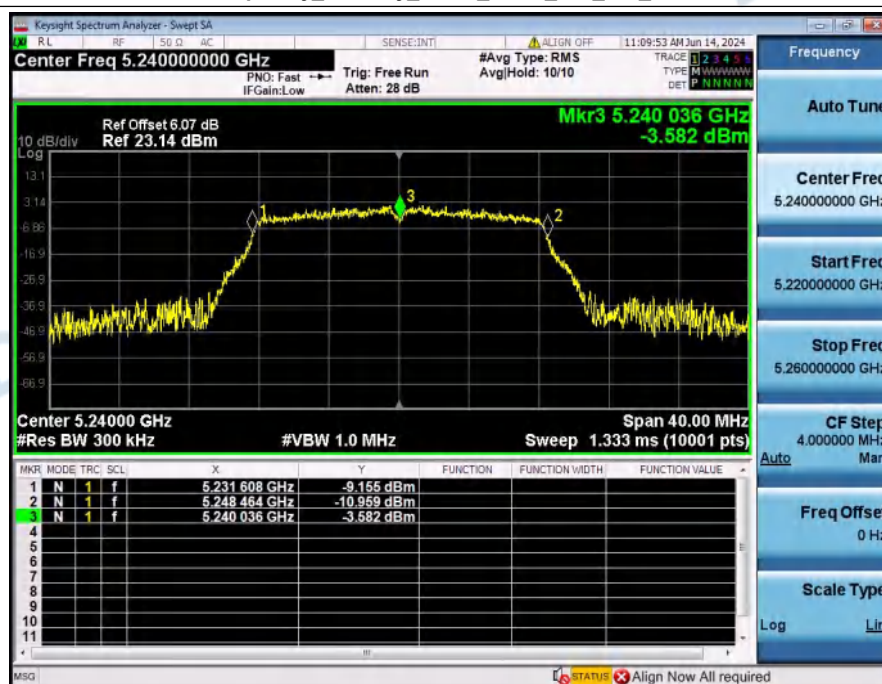
Frequency_Stability_NVNT_ANT1_802_11a_5180



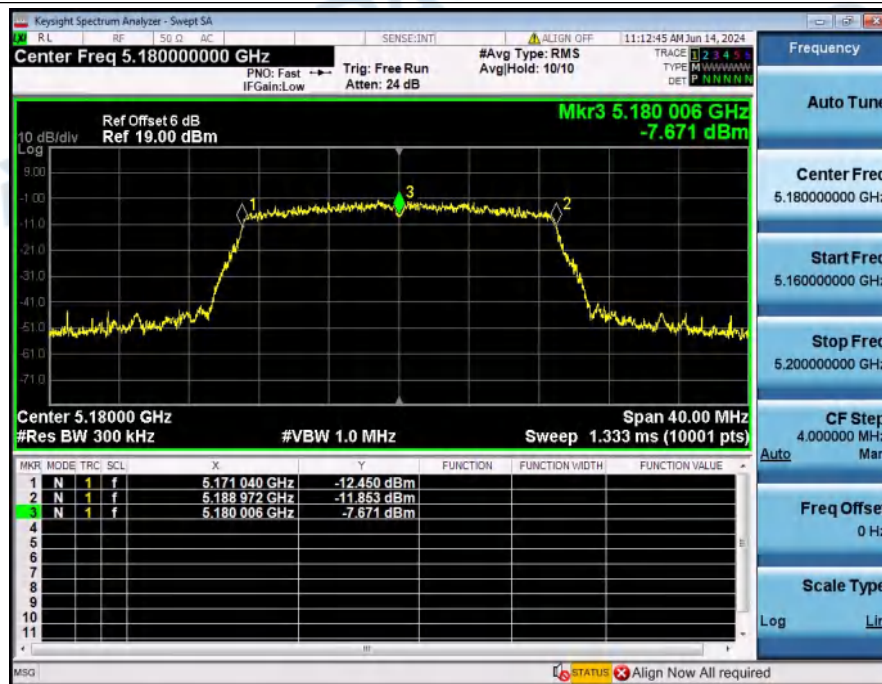
Frequency_Stability_NVNT_ANT1_802_11a_5200



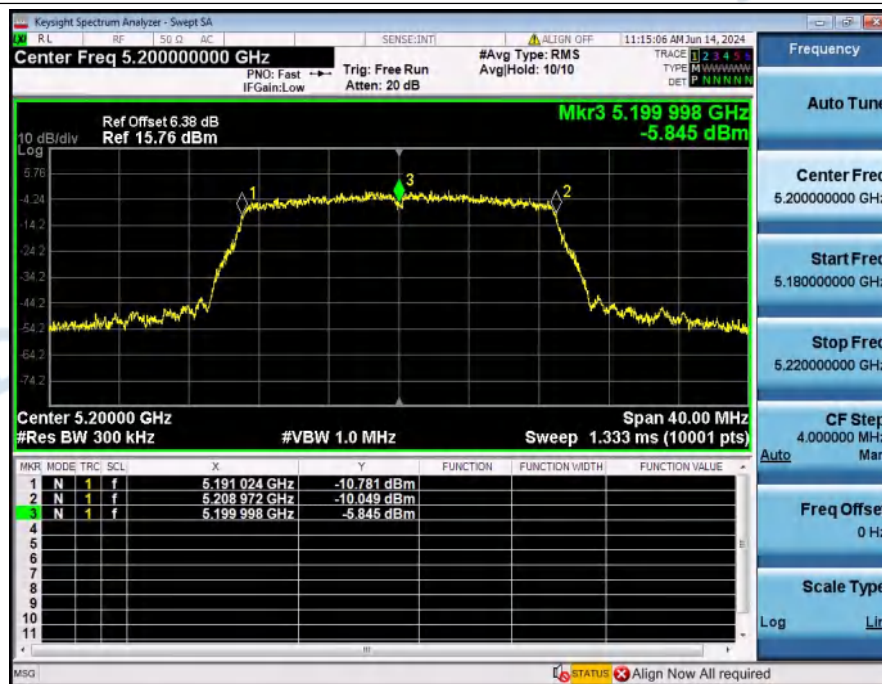
Frequency_Stability_NVNT_ANT1_802_11a_5240



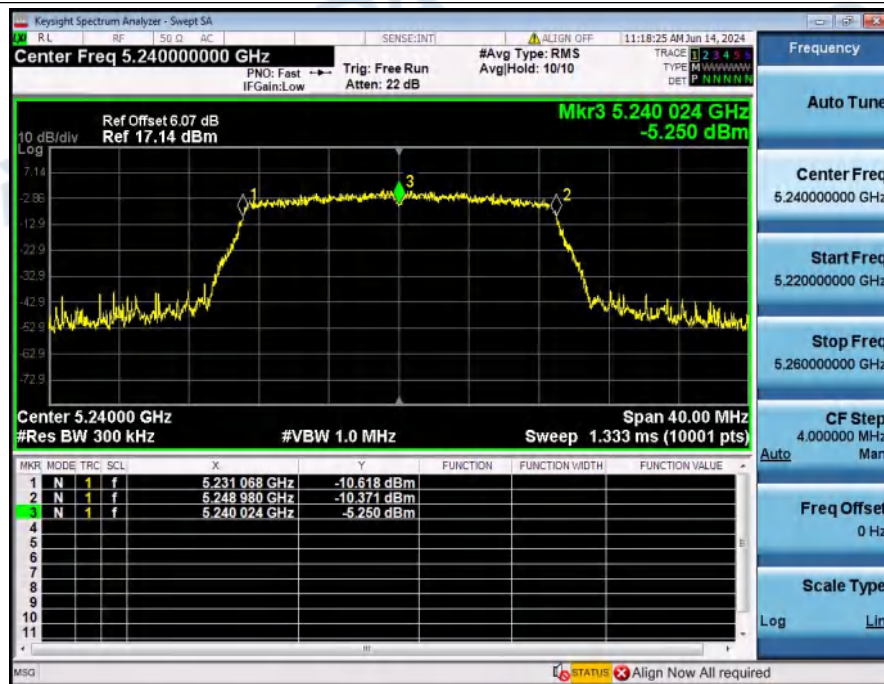
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5180



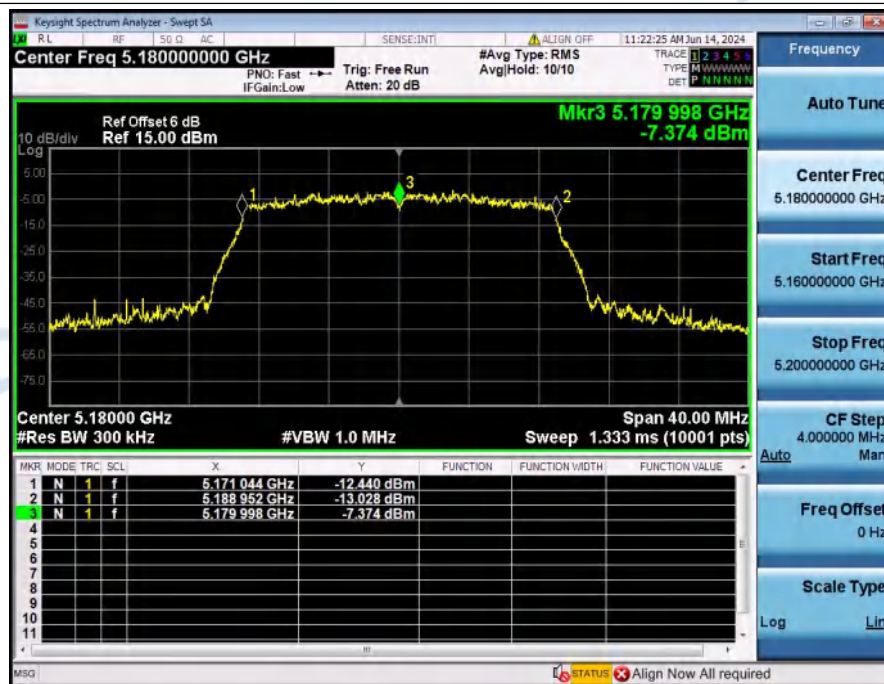
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5200



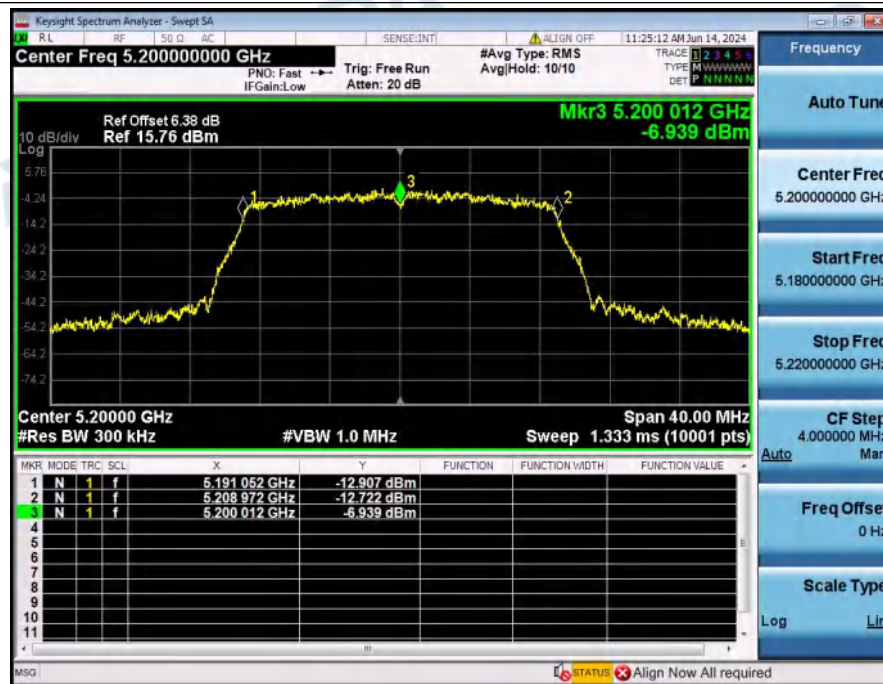
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5240



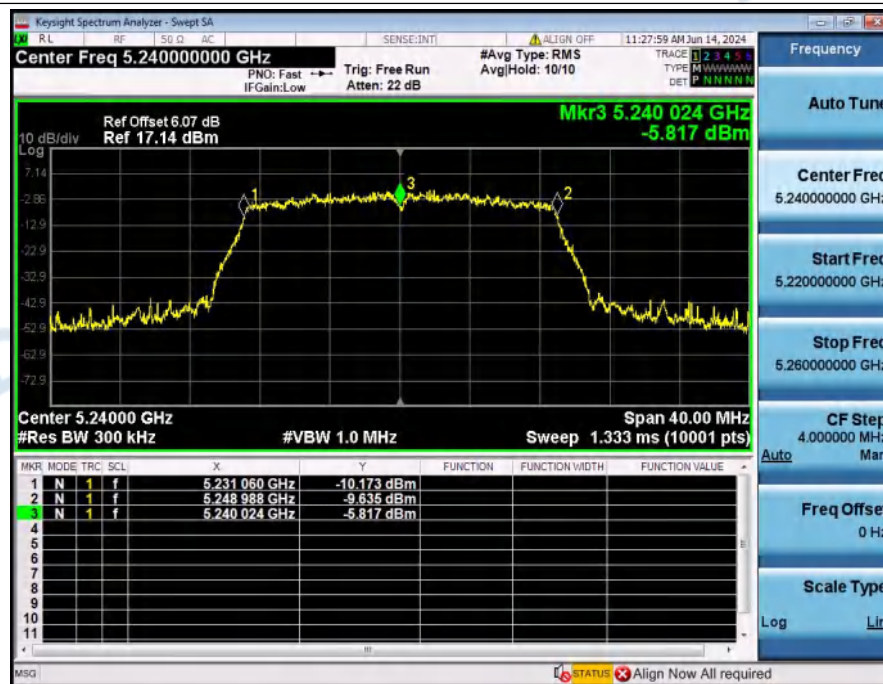
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5180



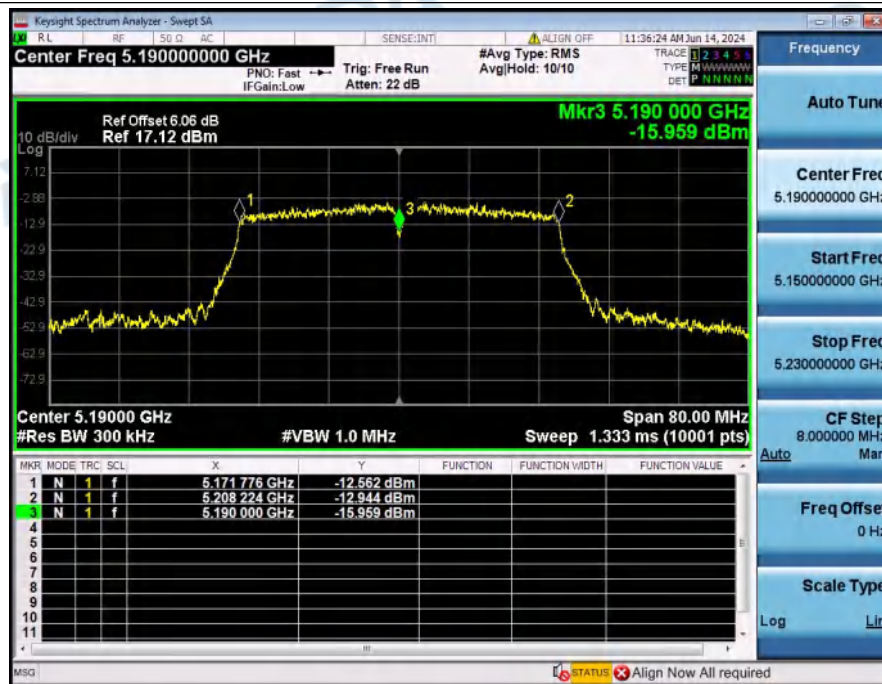
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5200



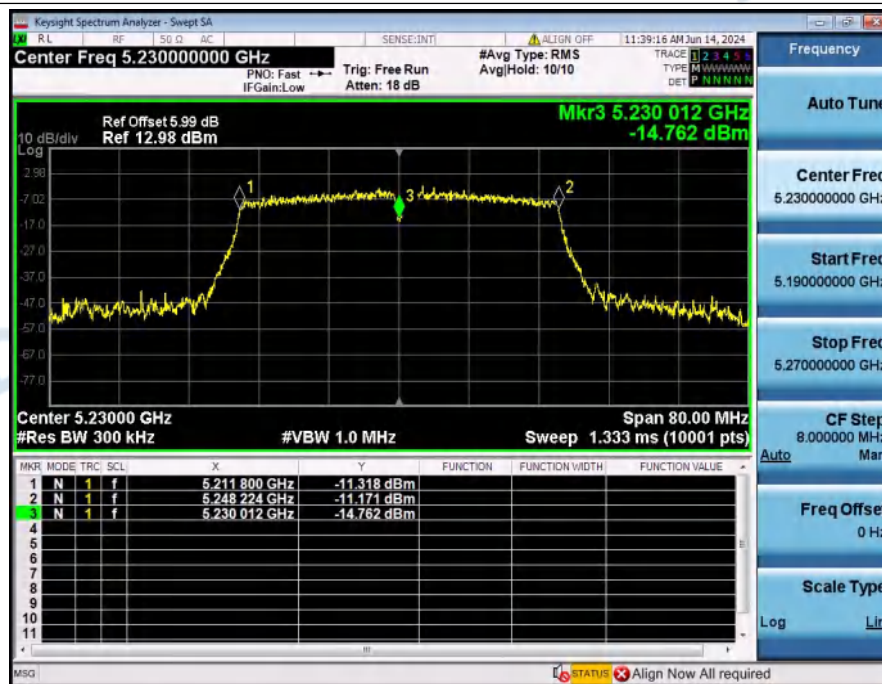
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5240



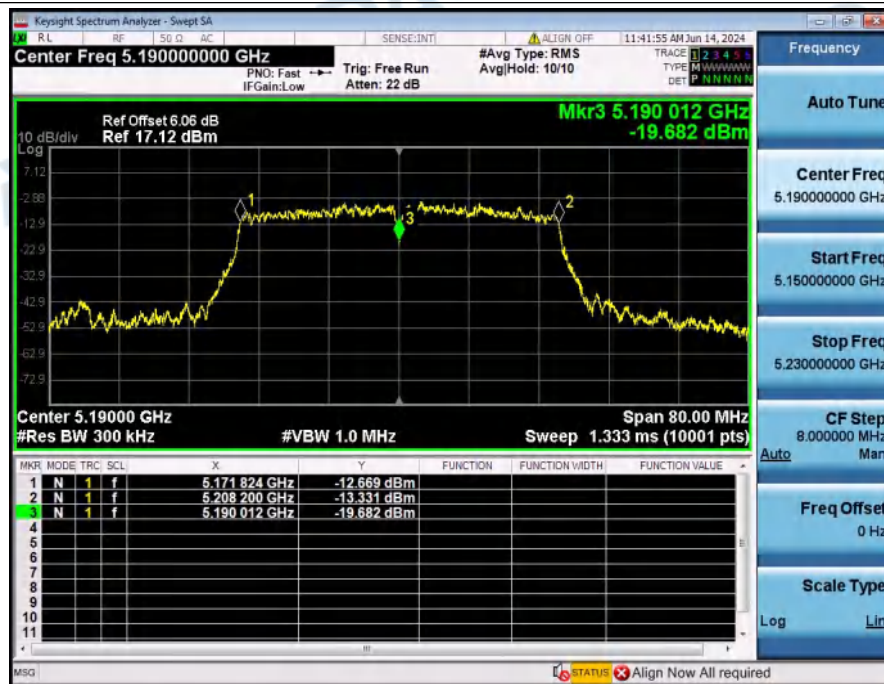
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5190



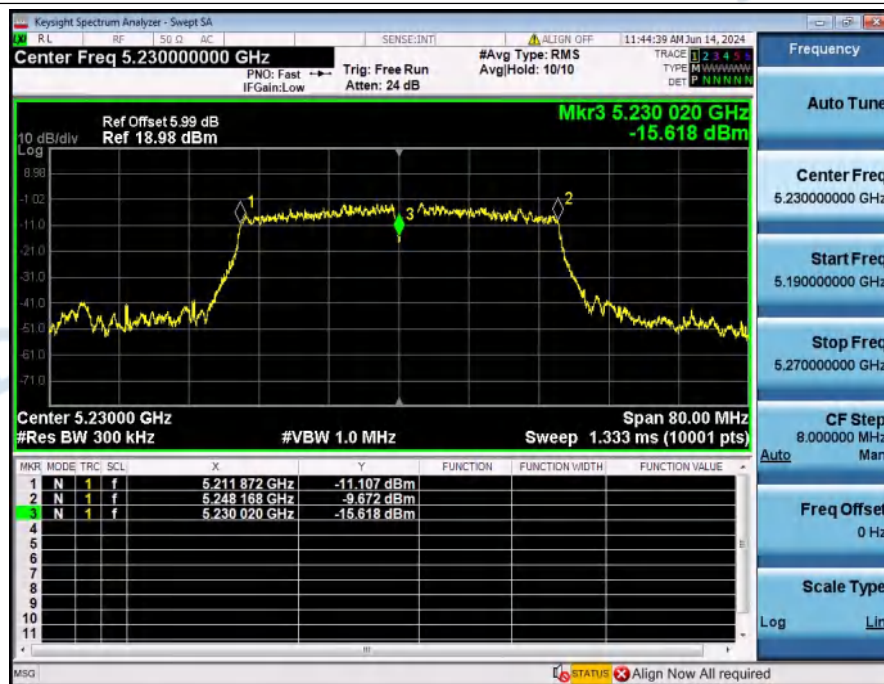
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5230



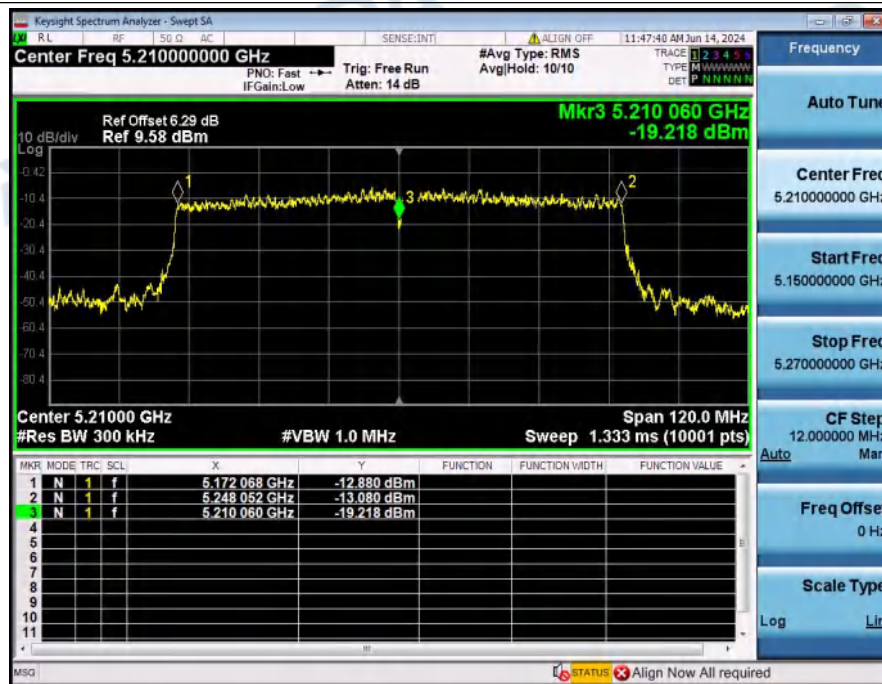
Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5190



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5230



Frequency_Stability_NVNT_ANT1_802_11ac(VHT80)_5210



***** End of Report *****