

Appendix1--5.2GWIFI

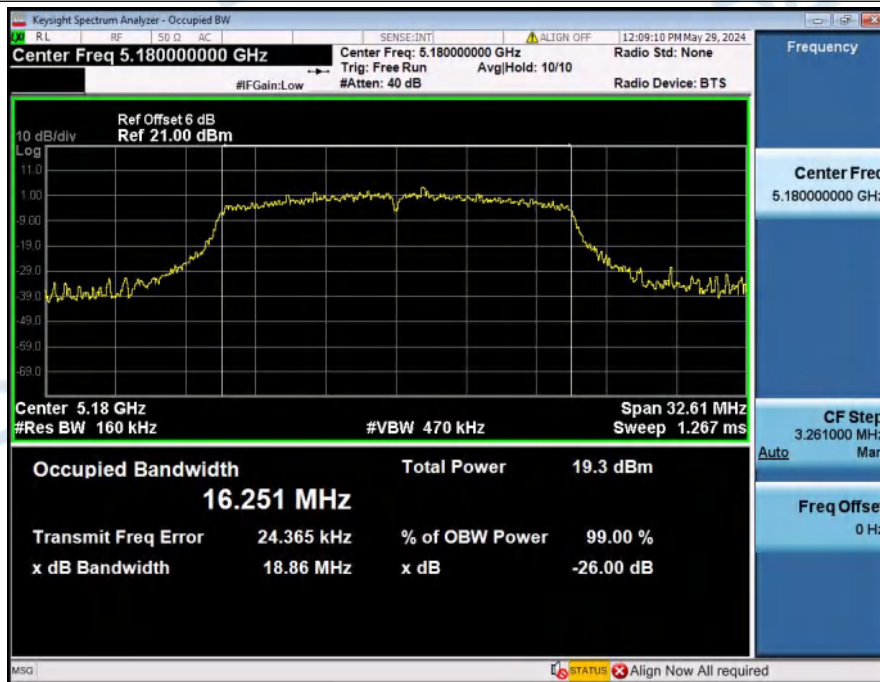
HT240523001-WL101--5.2G--FCC

FCC_5.2G_WIFI (Part15.407) Test Data

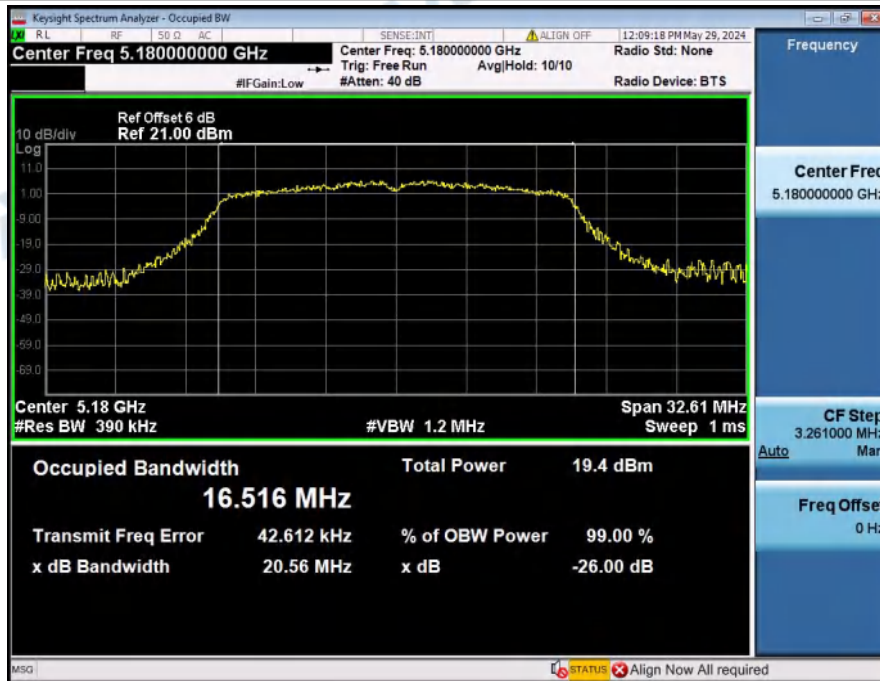
1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	20.56	16.25
NVNT	ANT1	802.11a	5200.00	20.35	16.22
NVNT	ANT1	802.11a	5240.00	20.34	16.26
NVNT	ANT1	802.11n(HT20)	5180.00	20.98	17.59
NVNT	ANT1	802.11n(HT20)	5200.00	21.18	17.58
NVNT	ANT1	802.11n(HT20)	5240.00	21.17	17.56
NVNT	ANT1	802.11ac(VHT20)	5180.00	25.50	16.27
NVNT	ANT1	802.11ac(VHT20)	5200.00	22.37	16.24
NVNT	ANT1	802.11ac(VHT20)	5240.00	26.04	16.26
NVNT	ANT1	802.11n(HT40)	5190.00	55.21	35.98
NVNT	ANT1	802.11n(HT40)	5230.00	62.73	35.97
NVNT	ANT1	802.11ac(VHT40)	5190.00	70.66	36.76
NVNT	ANT1	802.11ac(VHT40)	5230.00	71.05	36.17

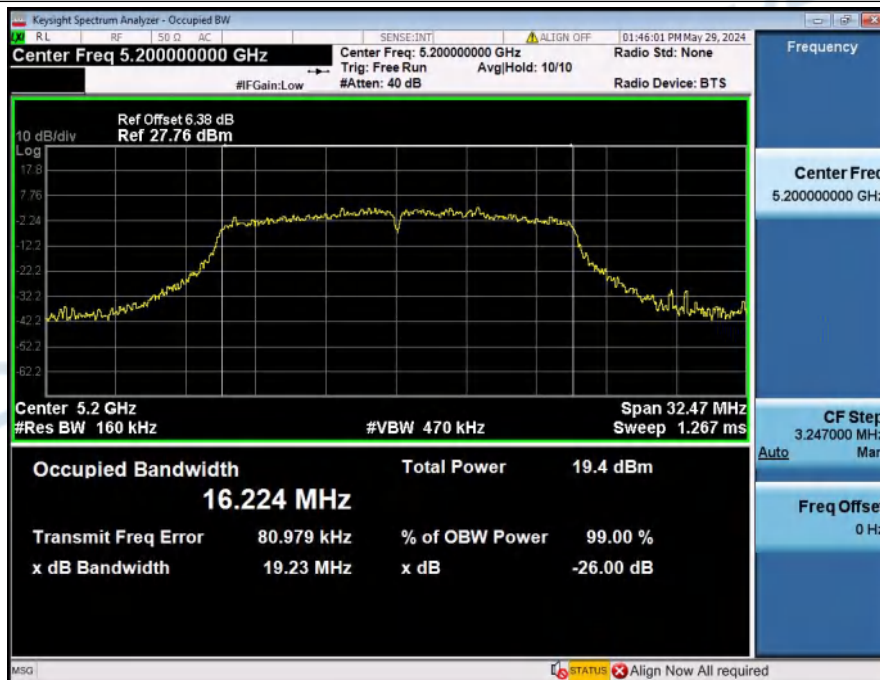
99%_OCB_NVNT_ANT1_802_11a_5180



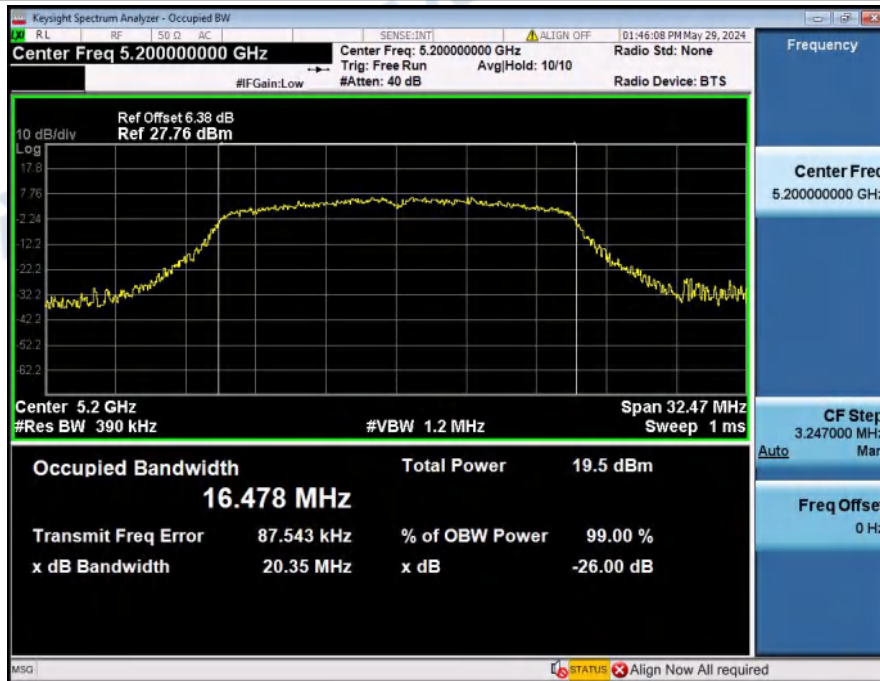
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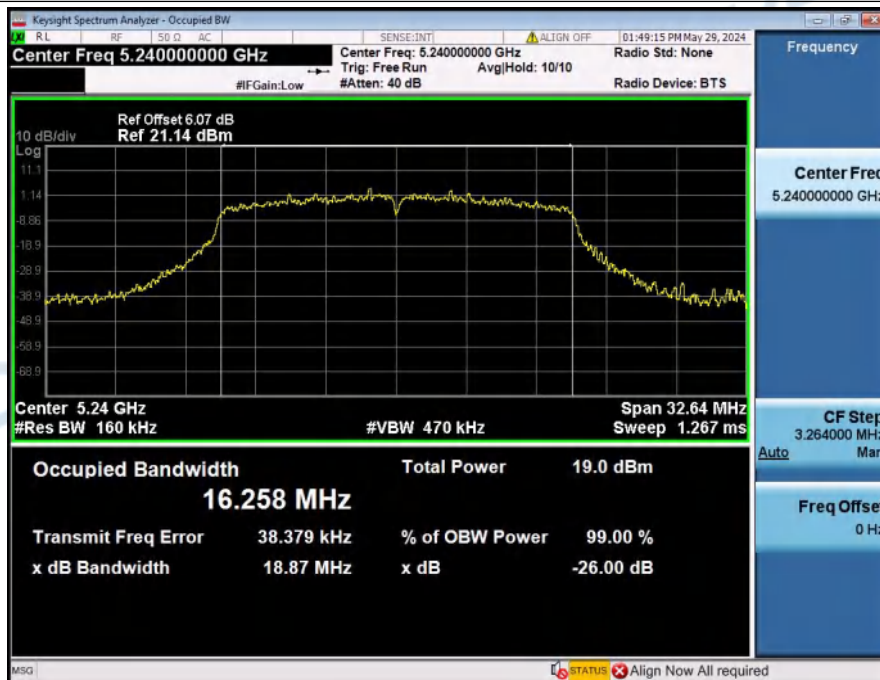
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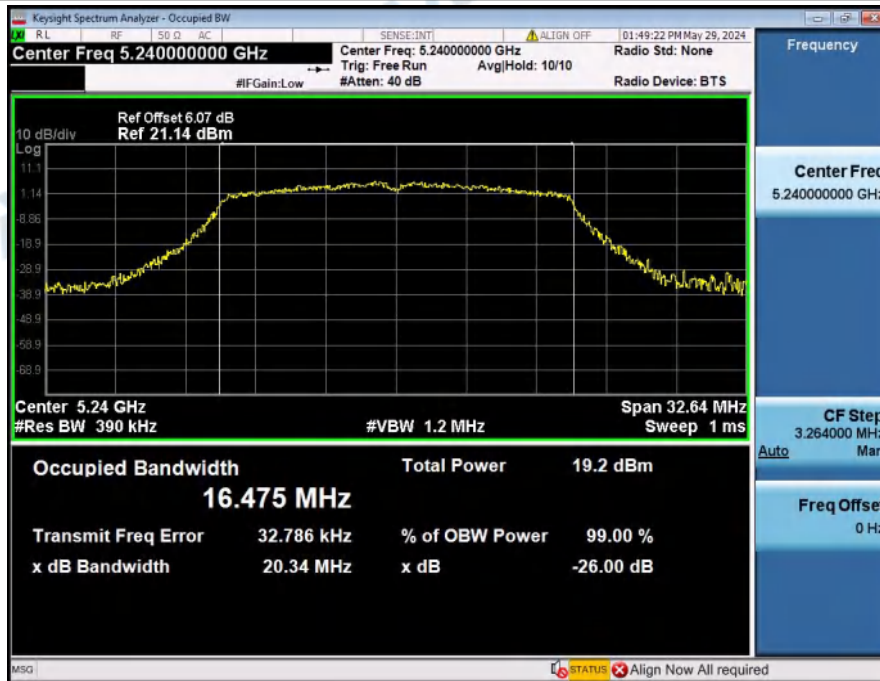
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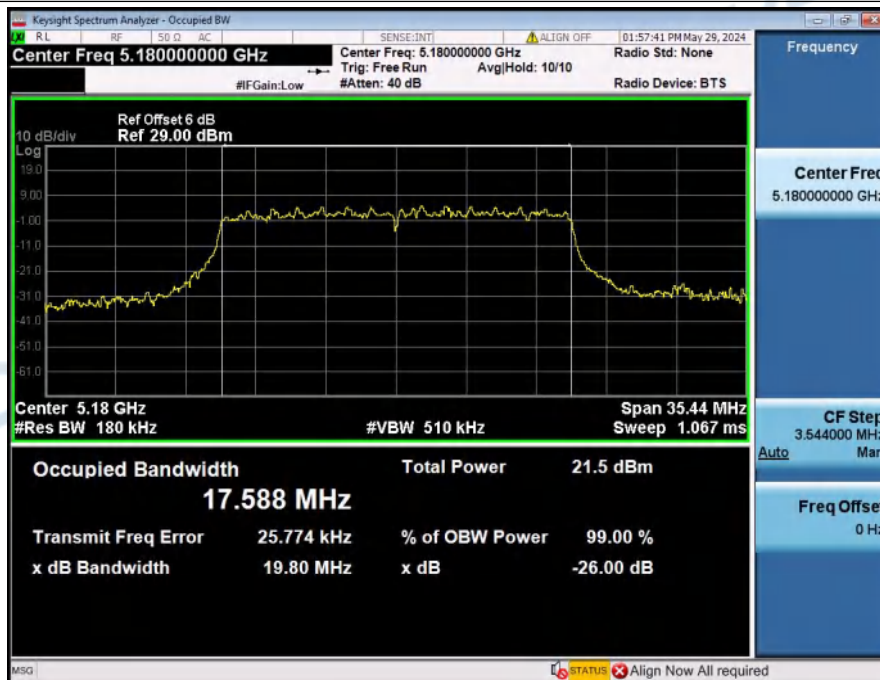
99%_OCB_NVNT_ANT1_802_11a_5240



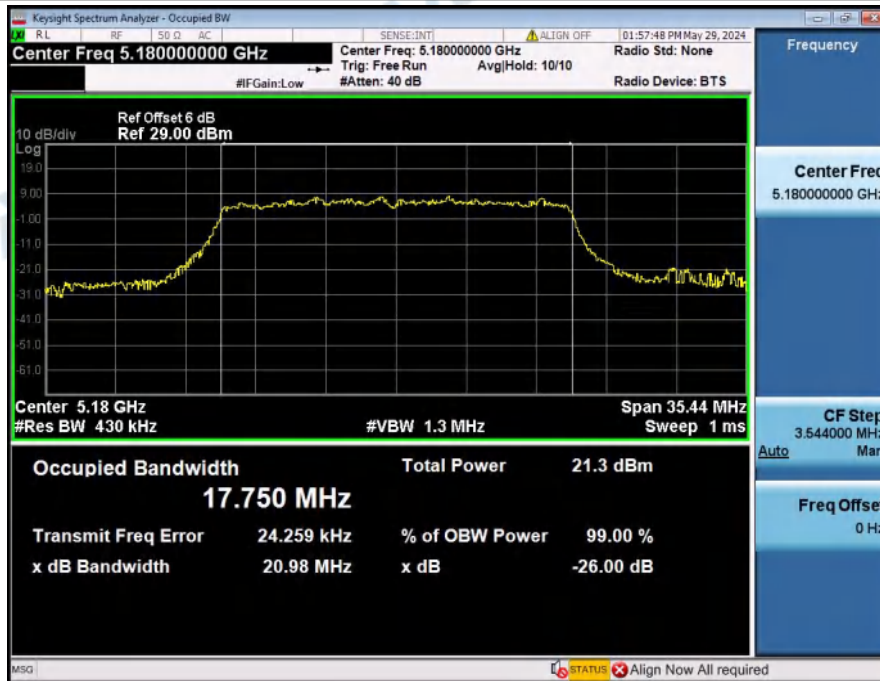
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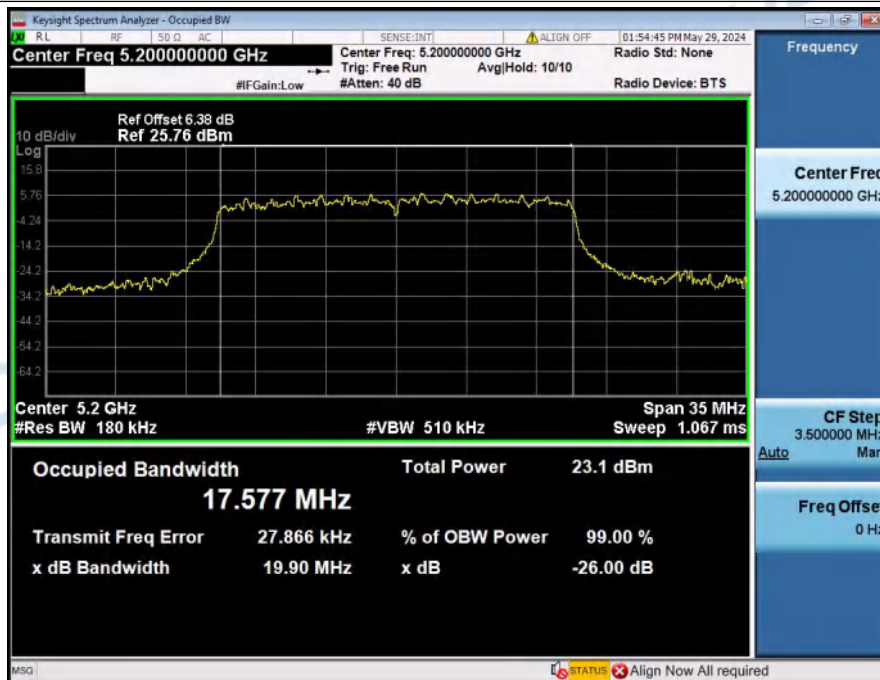
99%_OCB_NVNT_ANT1_802_11n(HT20)_5180



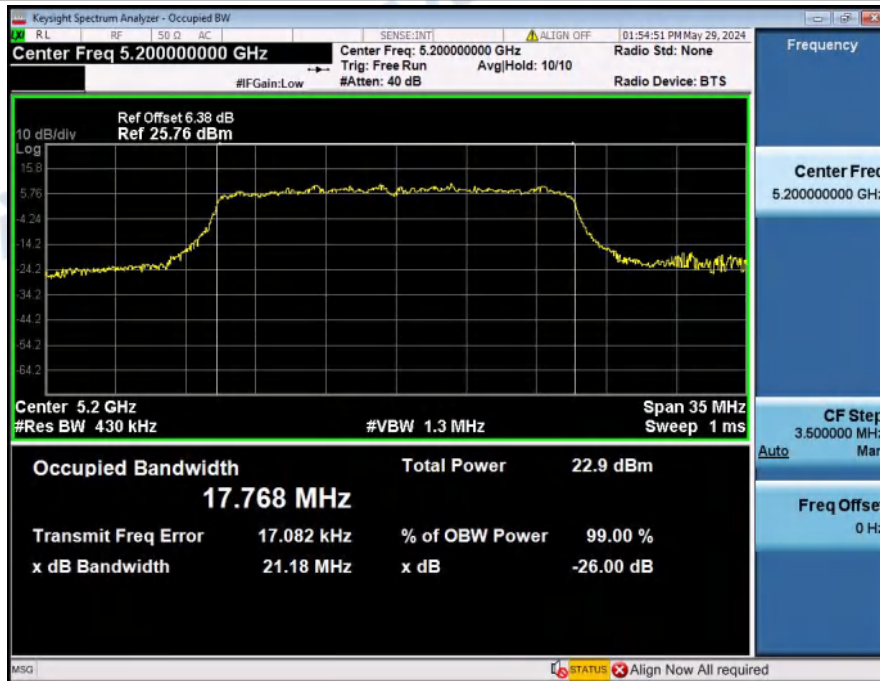
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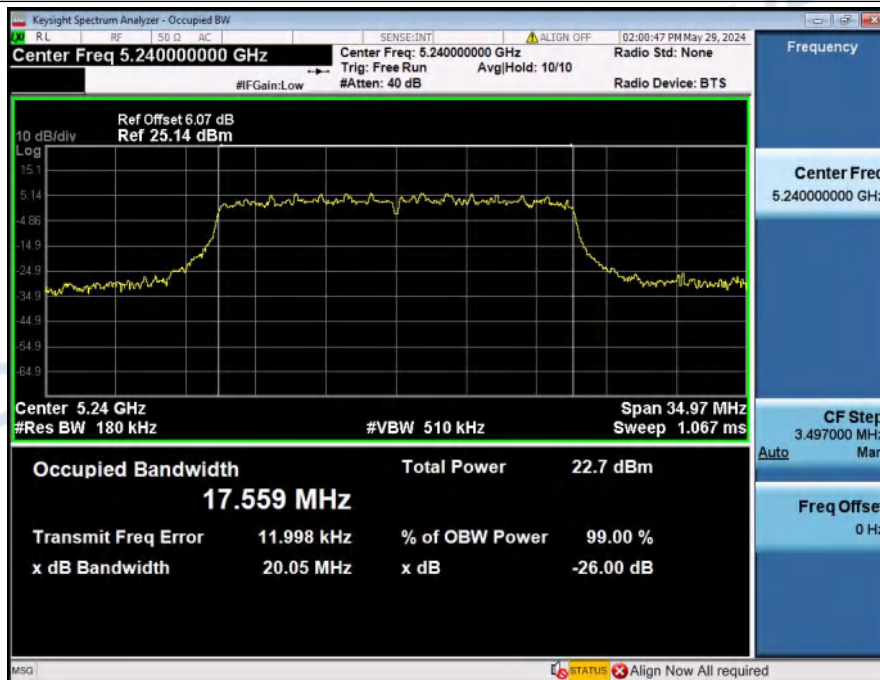
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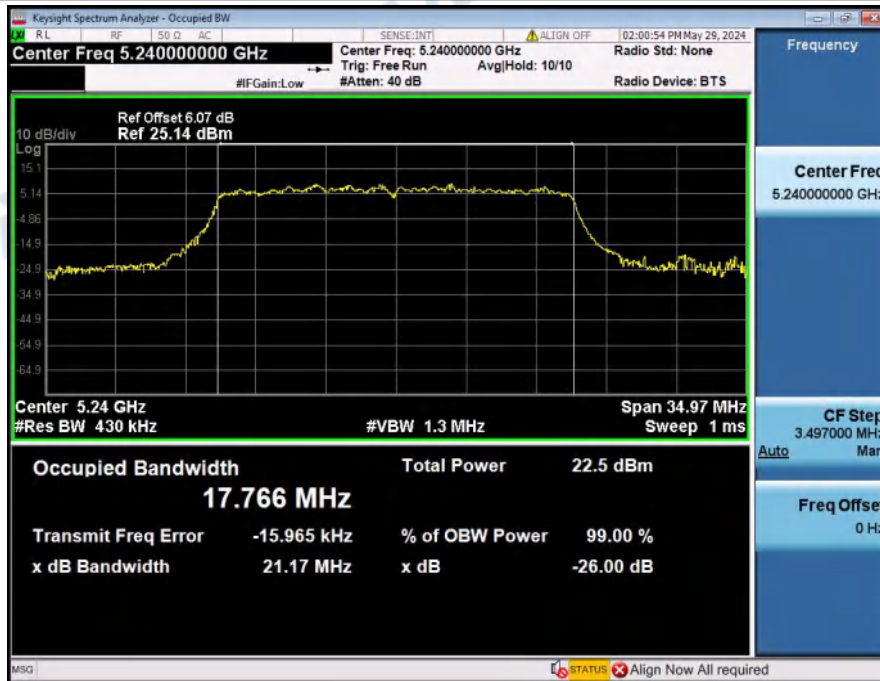
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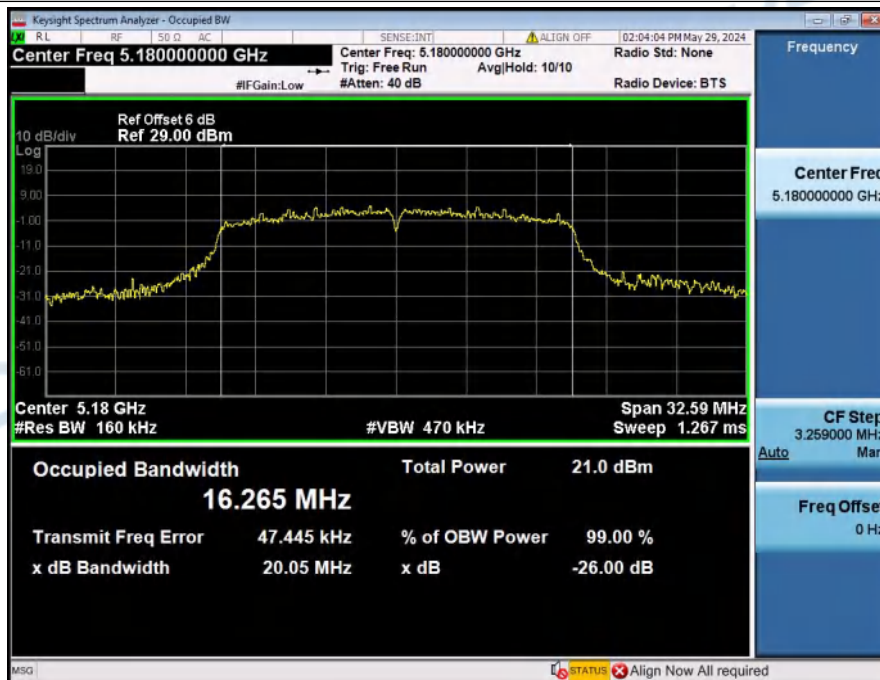
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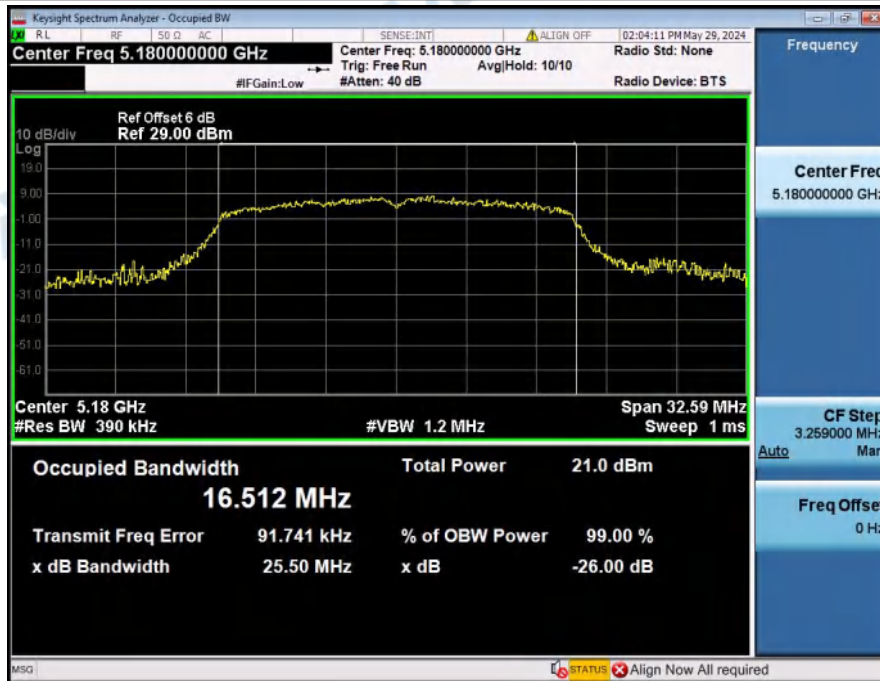
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99%_OCB_NVNT_ANT1_802_11ac(VHT20)_5180



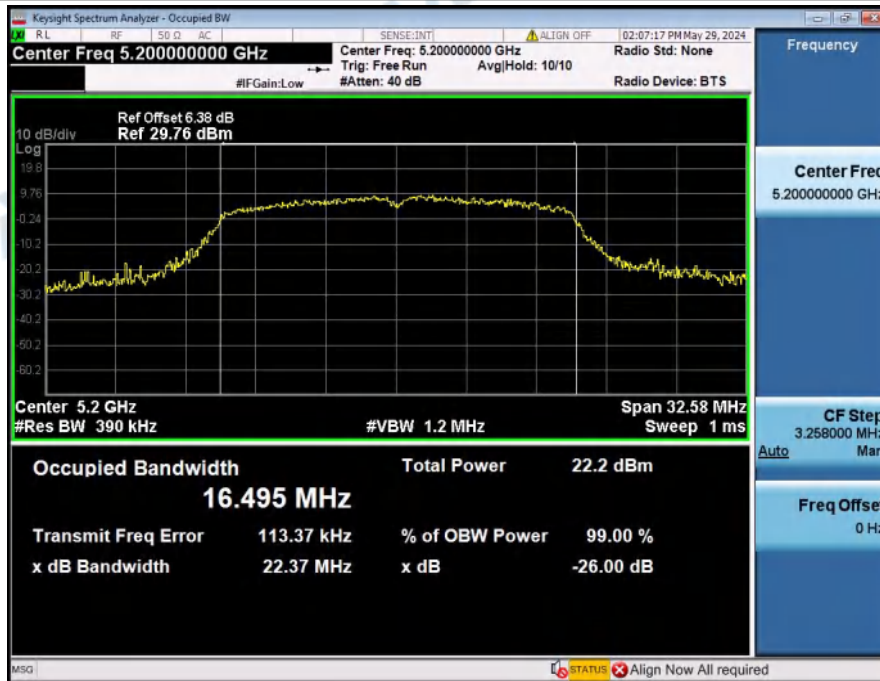
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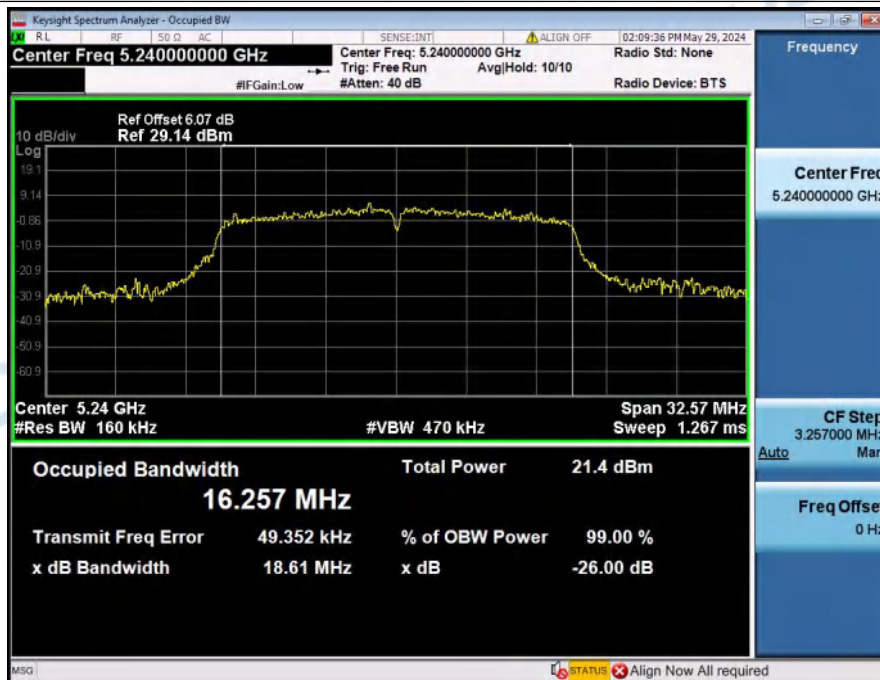
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-26BW_NVNT_ANT1_802_11ac(VHT20)_5200



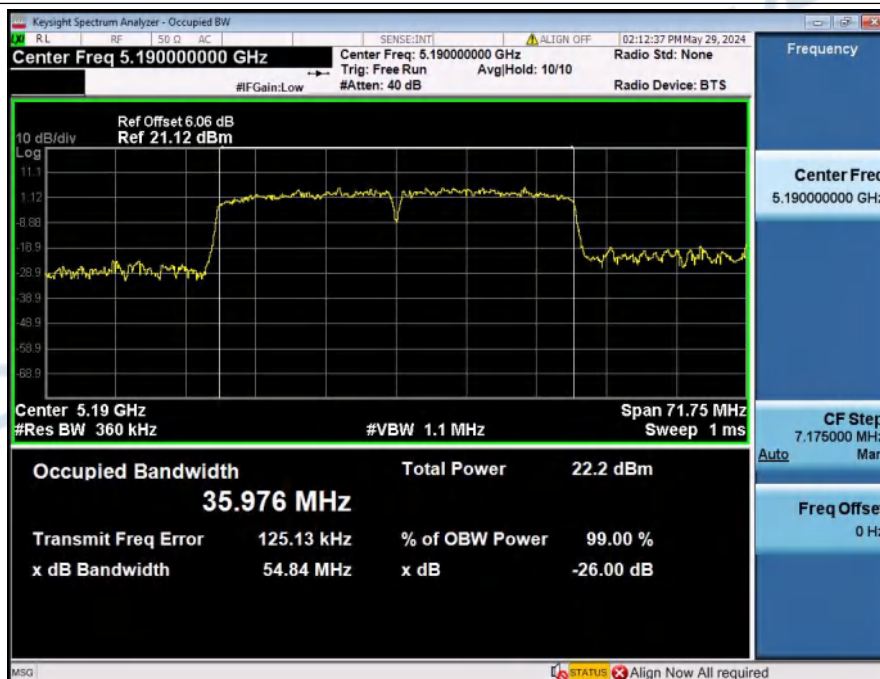
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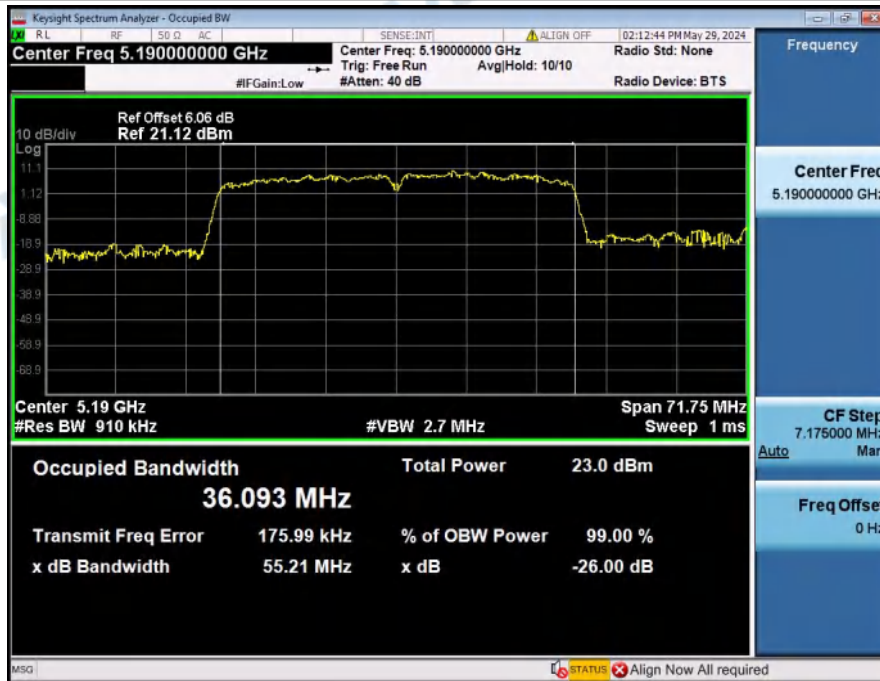
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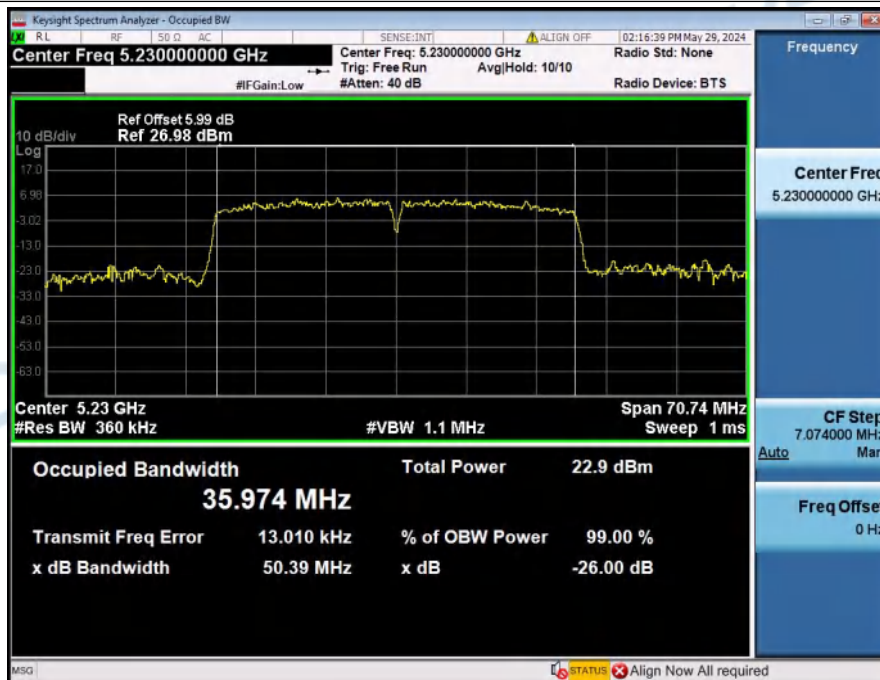
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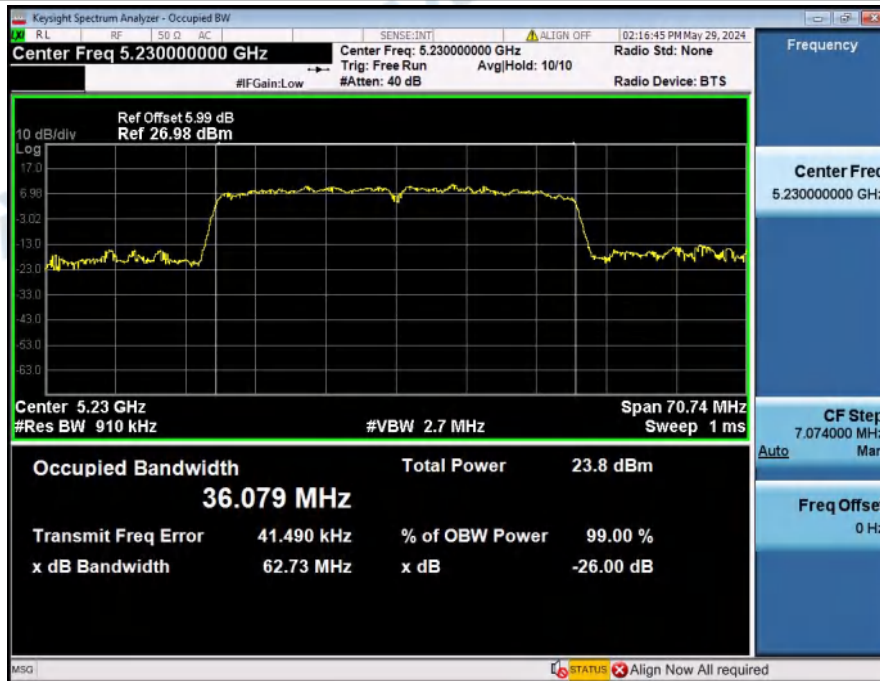
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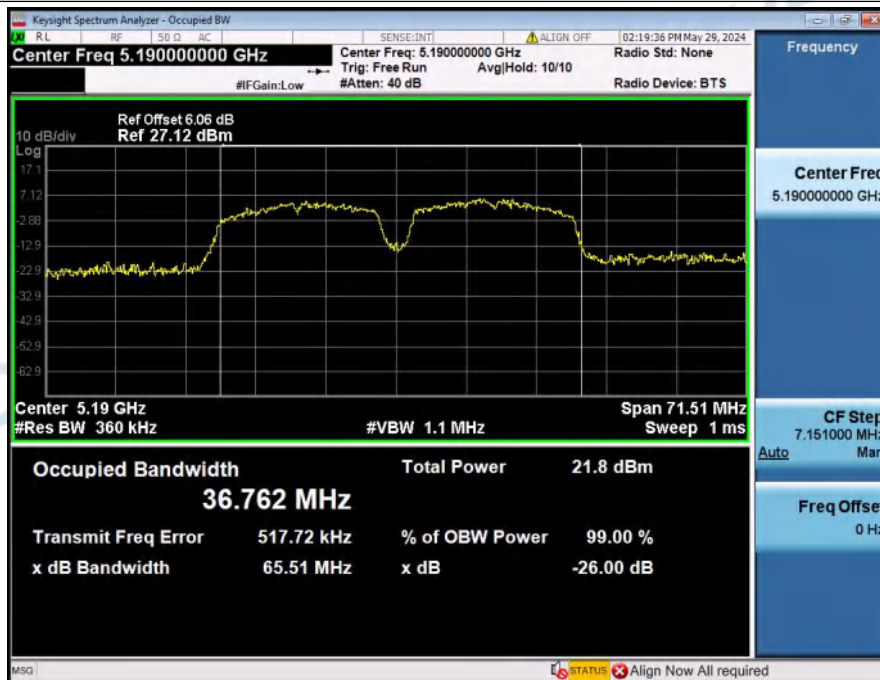
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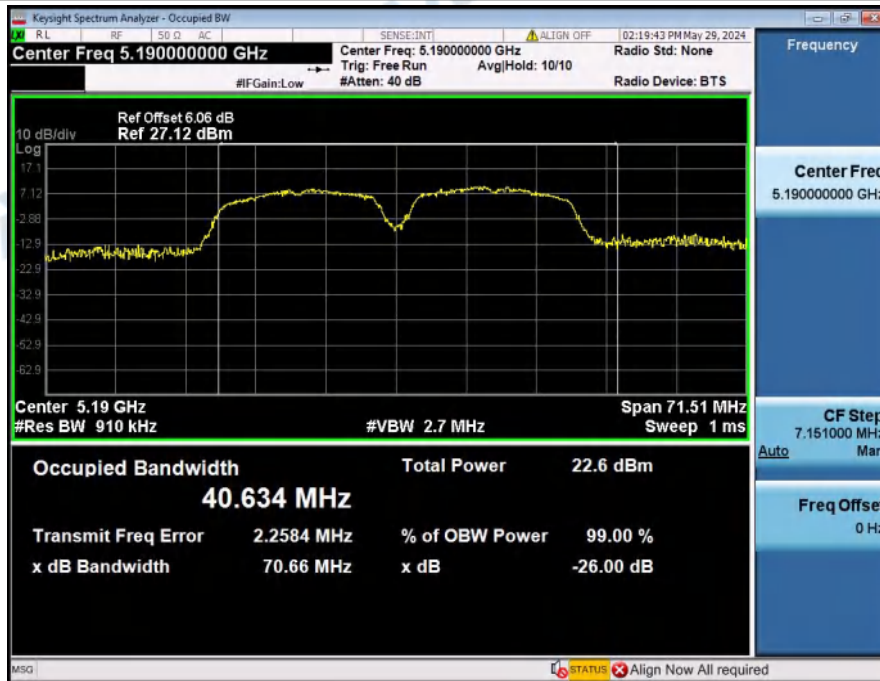
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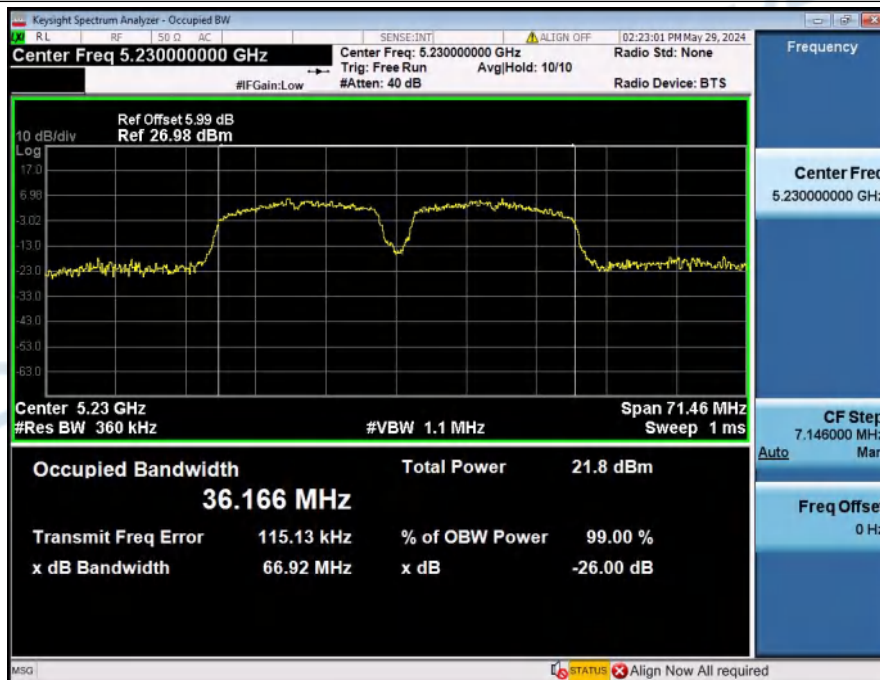
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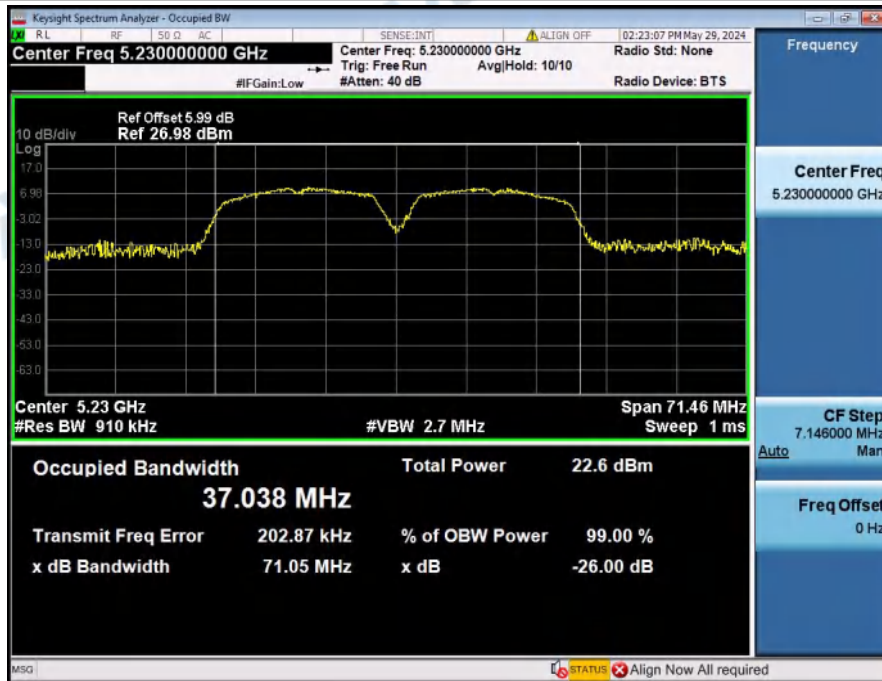
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99%_OCB_NVNT_ANT1_802_11ac(VHT40)_5230



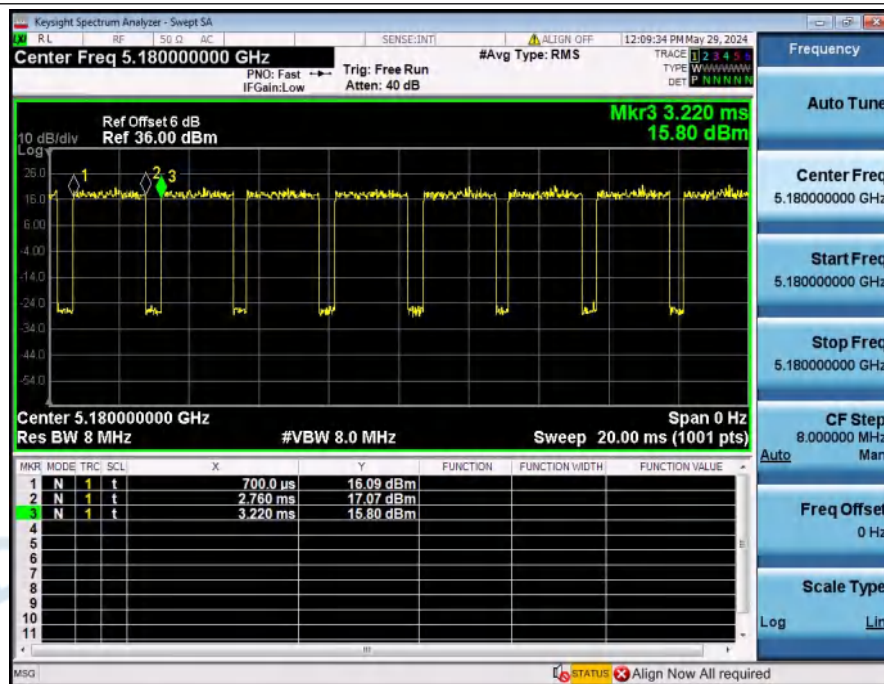
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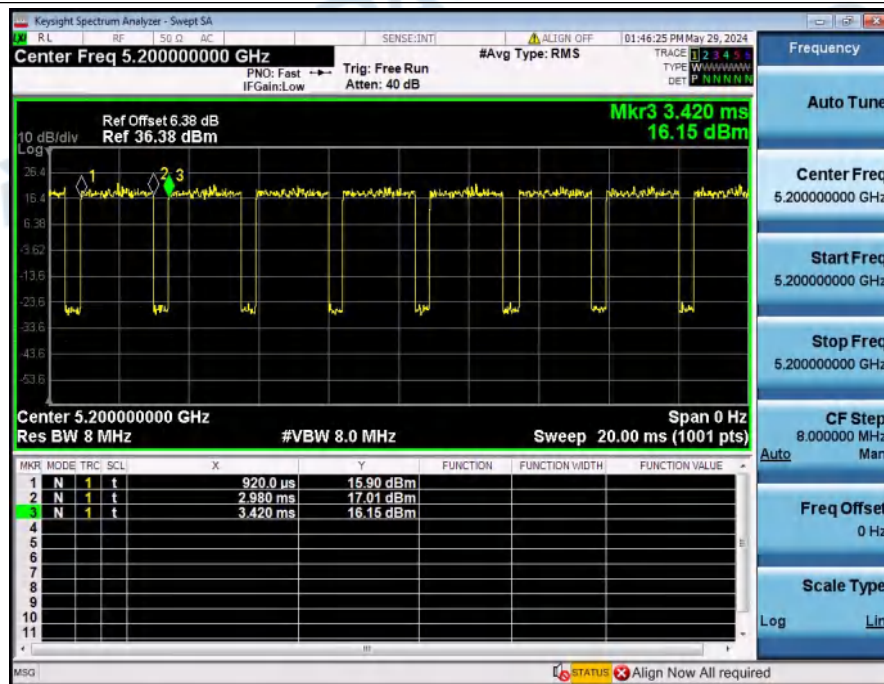
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	81.75	0.88
NVNT	ANT1	802.11a	5200.00	82.40	0.84
NVNT	ANT1	802.11a	5240.00	82.40	0.84
NVNT	ANT1	802.11n(HT20)	5180.00	52.38	2.81
NVNT	ANT1	802.11n(HT20)	5200.00	55.00	2.60
NVNT	ANT1	802.11n(HT20)	5240.00	60.00	2.22
NVNT	ANT1	802.11ac(VHT20)	5180.00	83.06	0.81
NVNT	ANT1	802.11ac(VHT20)	5200.00	85.12	0.70
NVNT	ANT1	802.11ac(VHT20)	5240.00	81.75	0.88
NVNT	ANT1	802.11n(HT40)	5190.00	50.00	3.01
NVNT	ANT1	802.11n(HT40)	5230.00	46.15	3.36
NVNT	ANT1	802.11ac(VHT40)	5190.00	84.43	0.74
NVNT	ANT1	802.11ac(VHT40)	5230.00	81.75	0.88

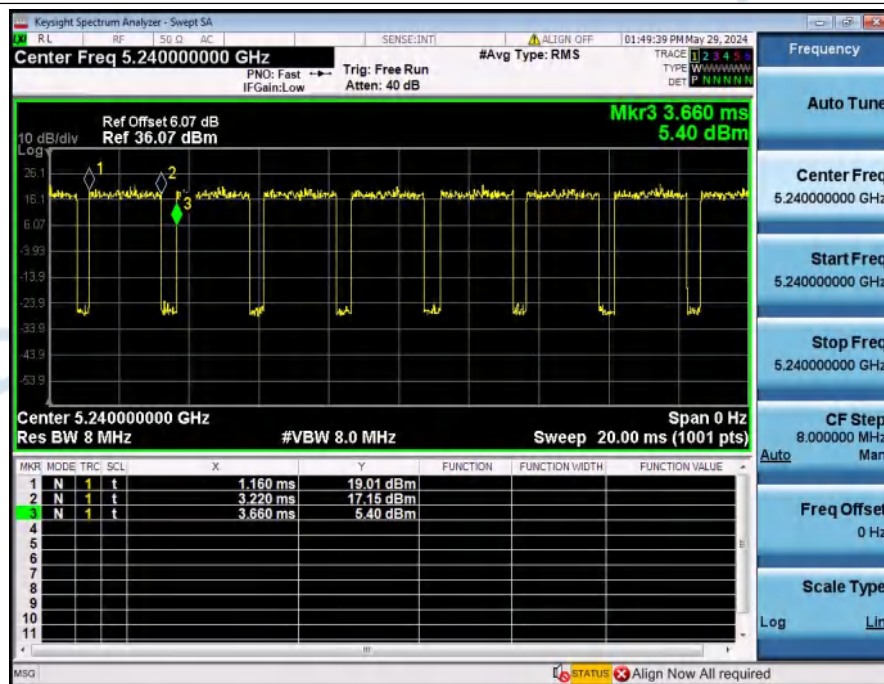
Duty_Cycle_NVNT_ANT1_802_11a_5180



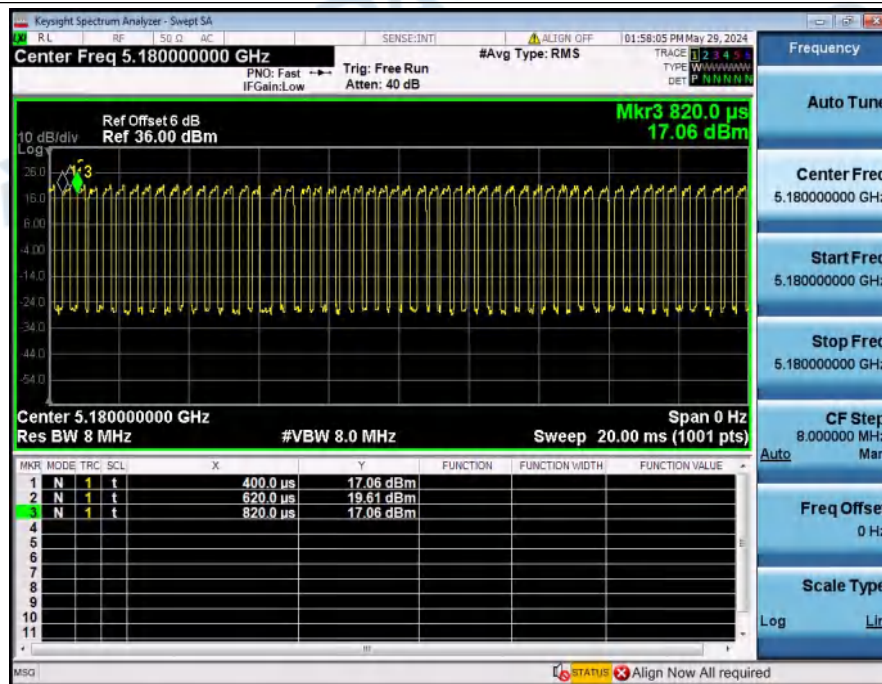
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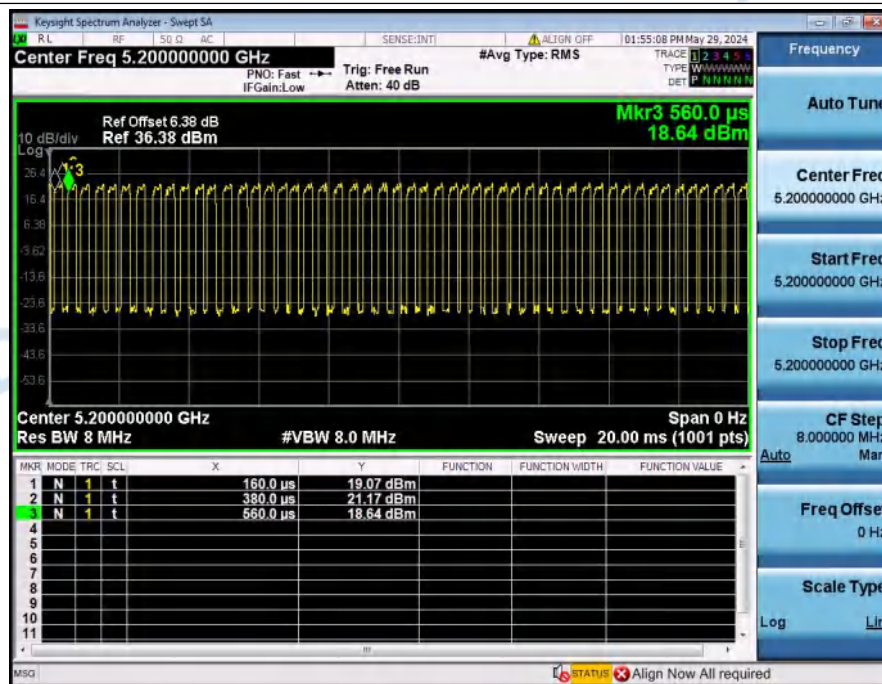
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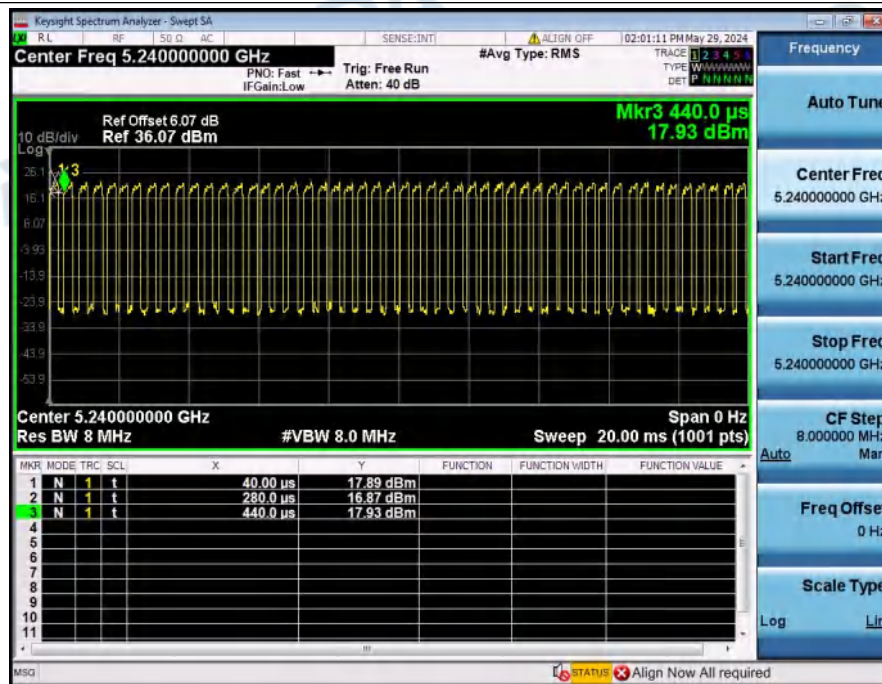
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



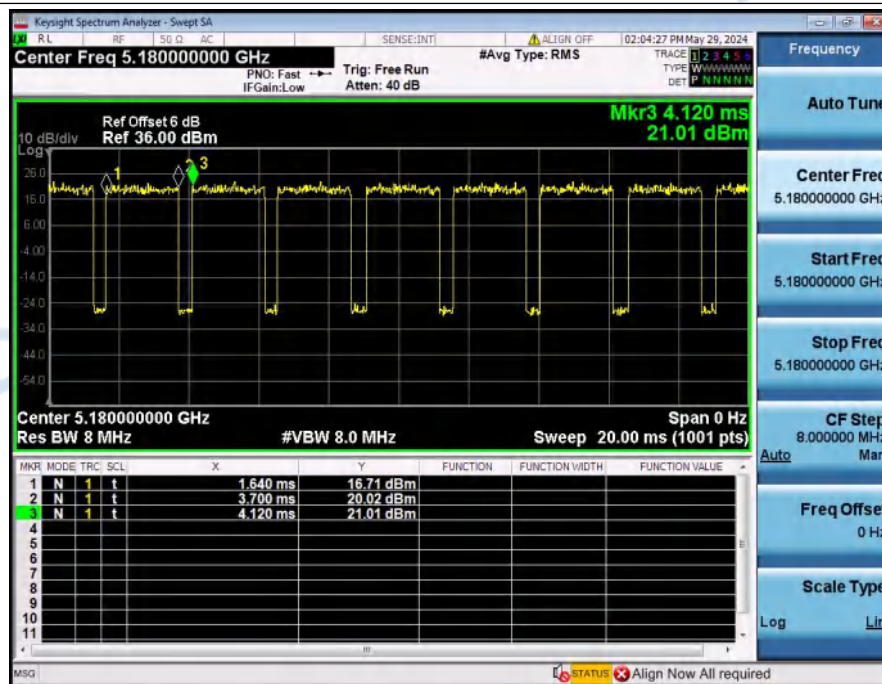
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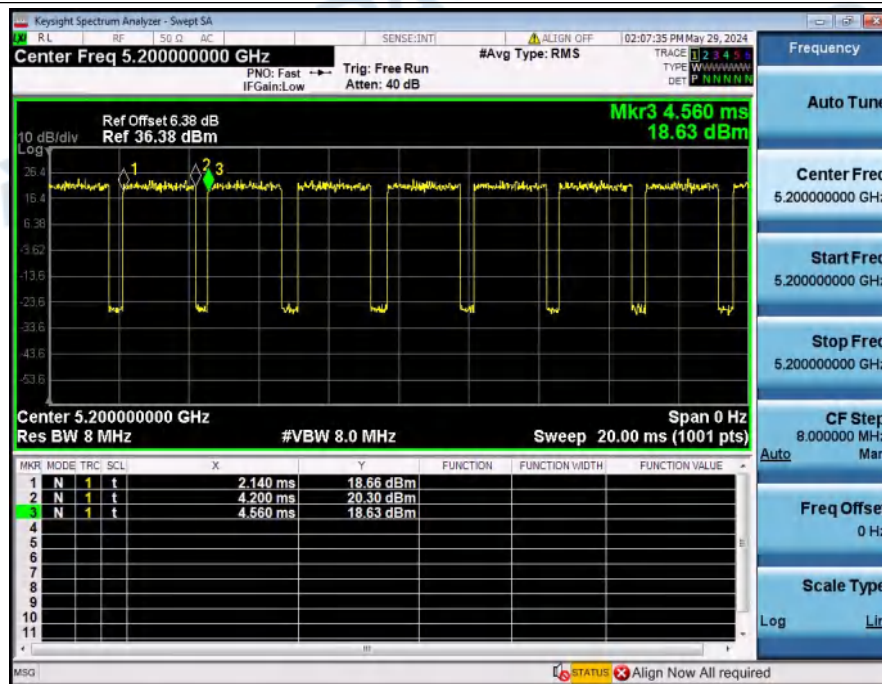
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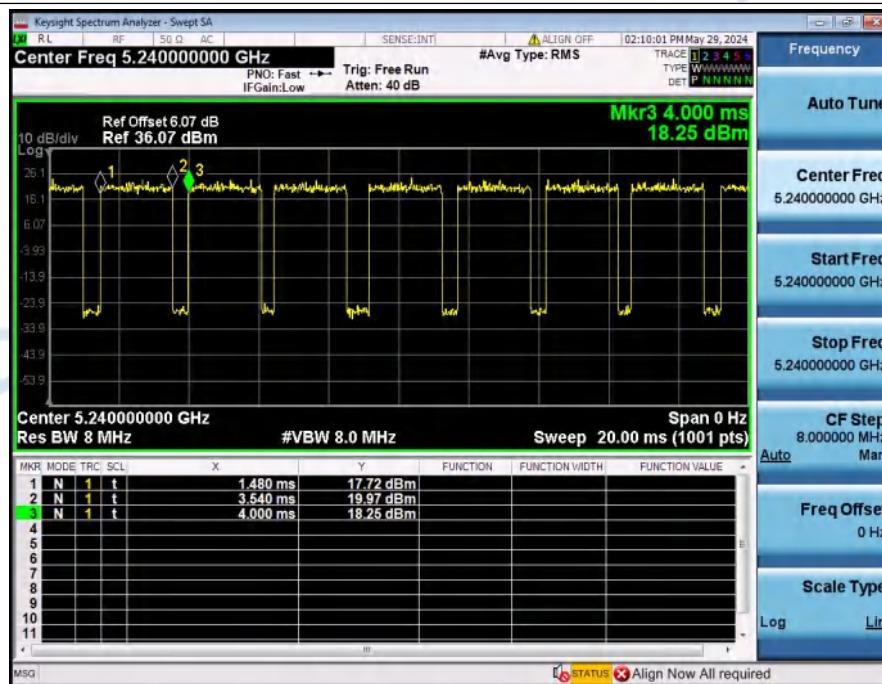
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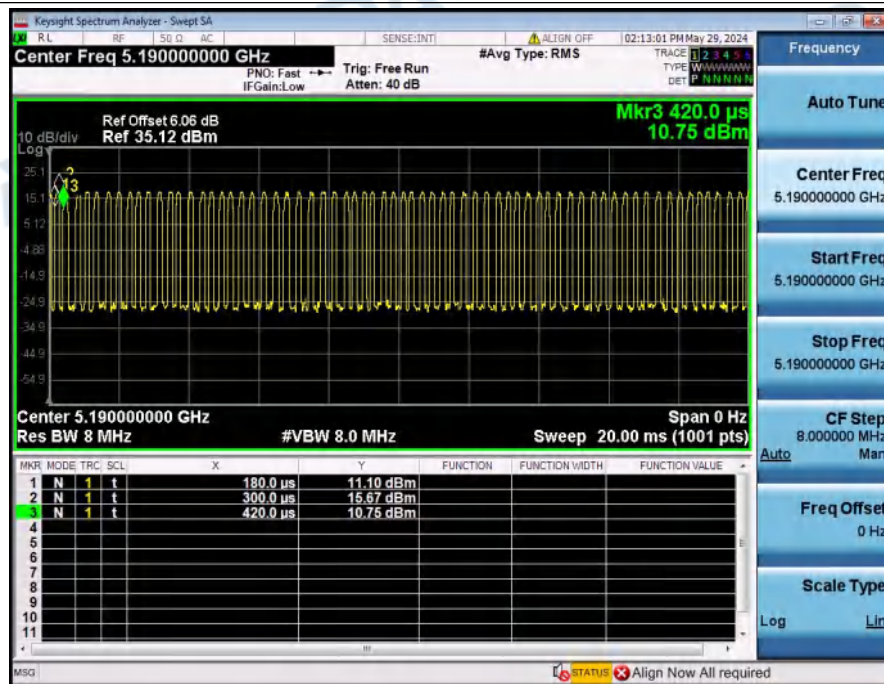
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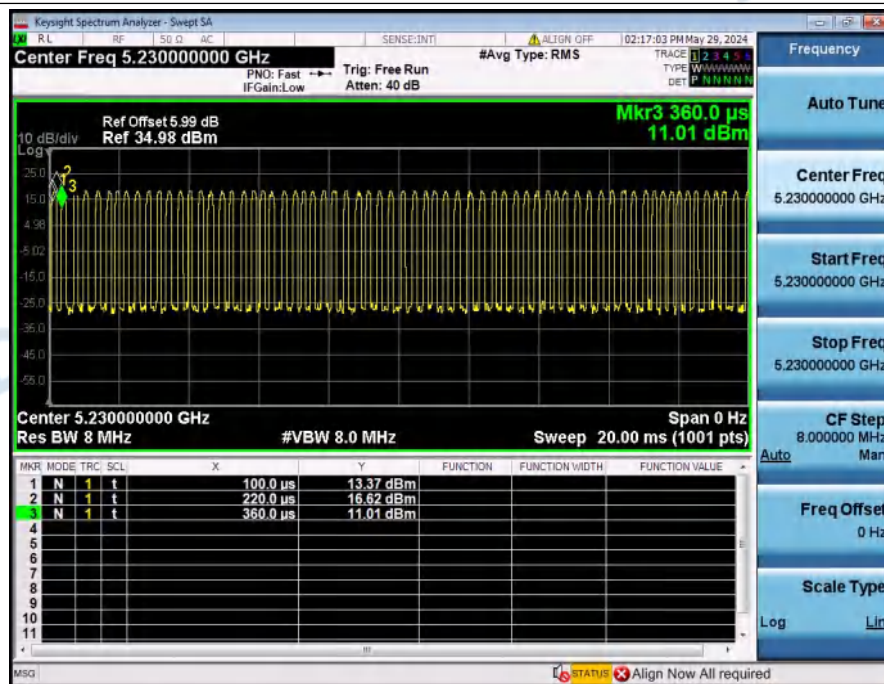
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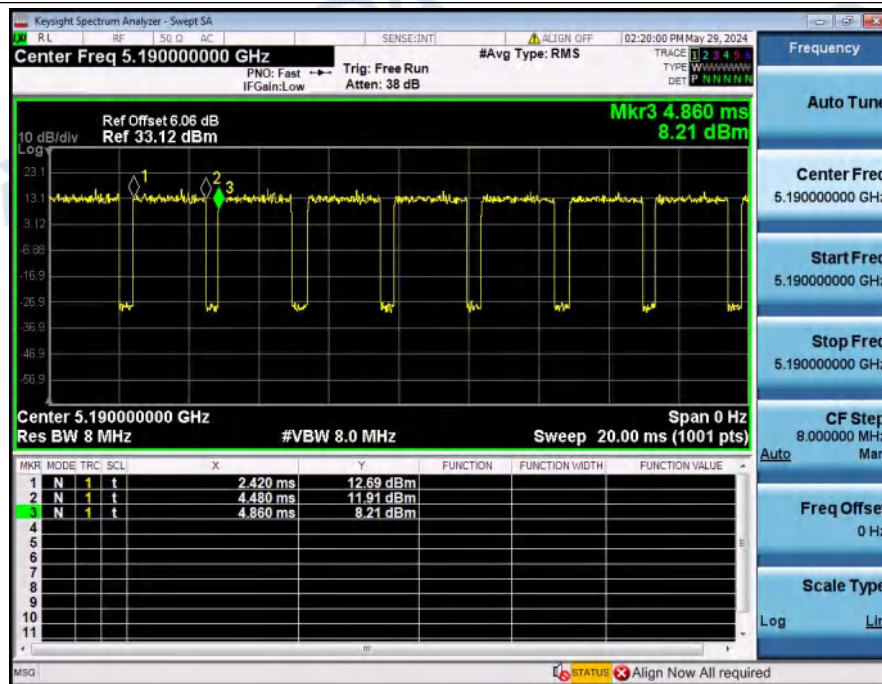
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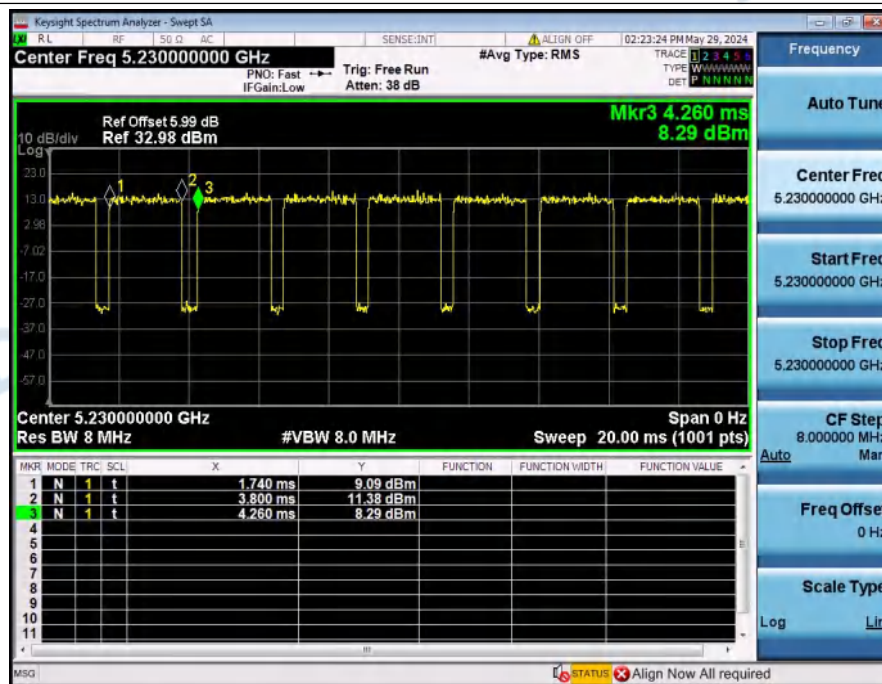
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5230



Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5190



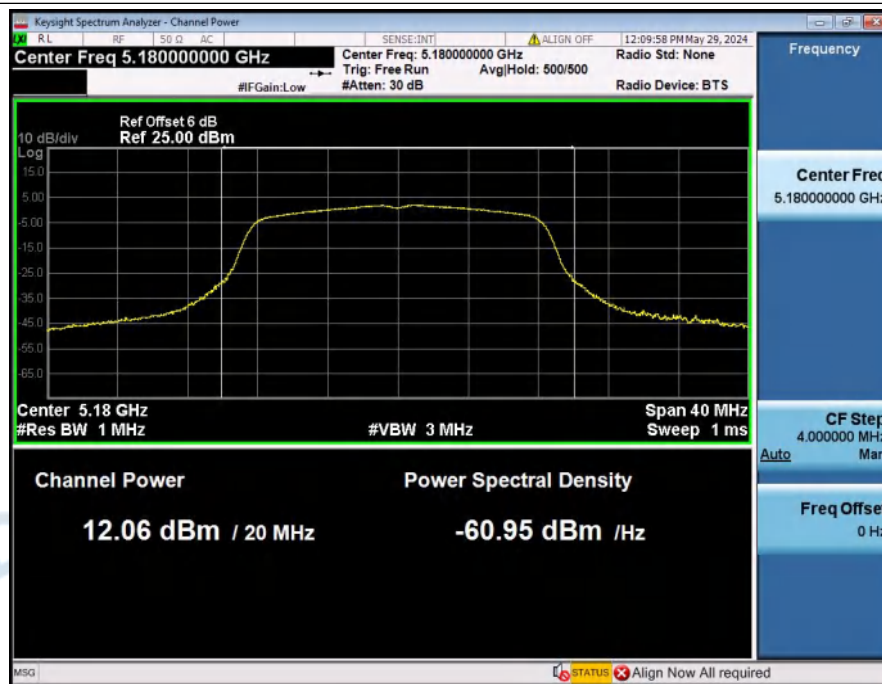
Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5230



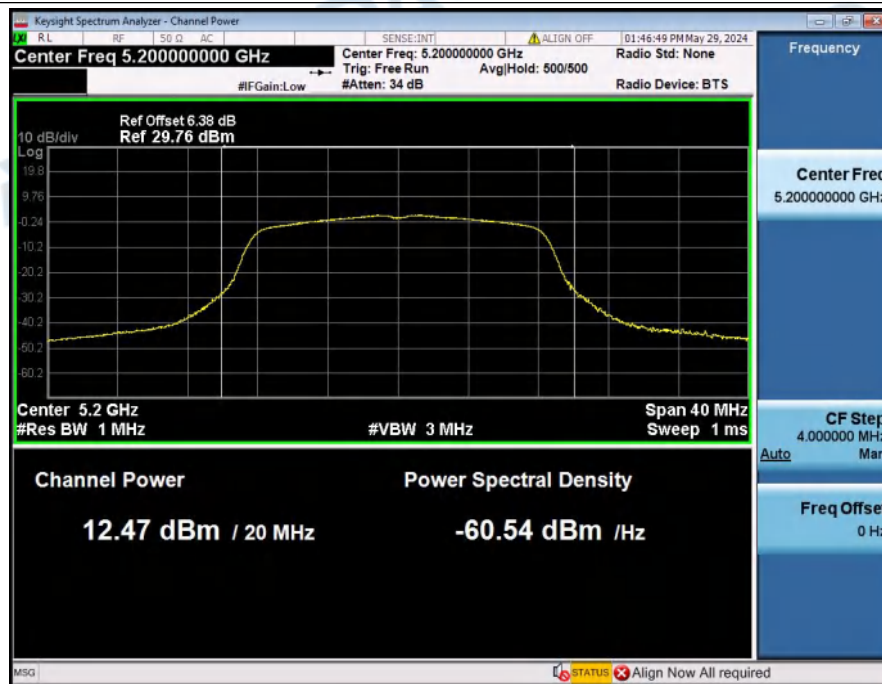
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	12.06	0.88	12.94	24	Pass
NVNT	ANT1	802.11a	5200.00	12.47	0.84	13.31	24	Pass
NVNT	ANT1	802.11a	5240.00	12.09	0.84	12.93	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	12.47	2.81	15.28	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	14.01	2.60	16.61	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	13.62	2.22	15.84	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	13.69	0.81	14.50	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	15.01	0.70	15.71	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	14.65	0.88	15.53	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	12.26	3.01	15.27	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	12.87	3.36	16.23	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	14.08	0.74	14.82	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	14.38	0.88	15.26	24	Pass

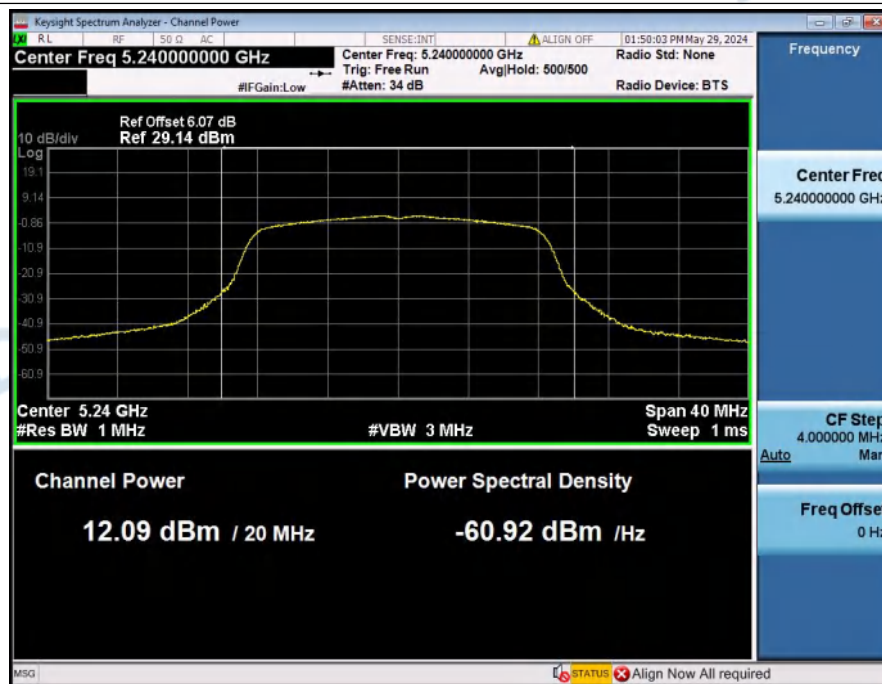
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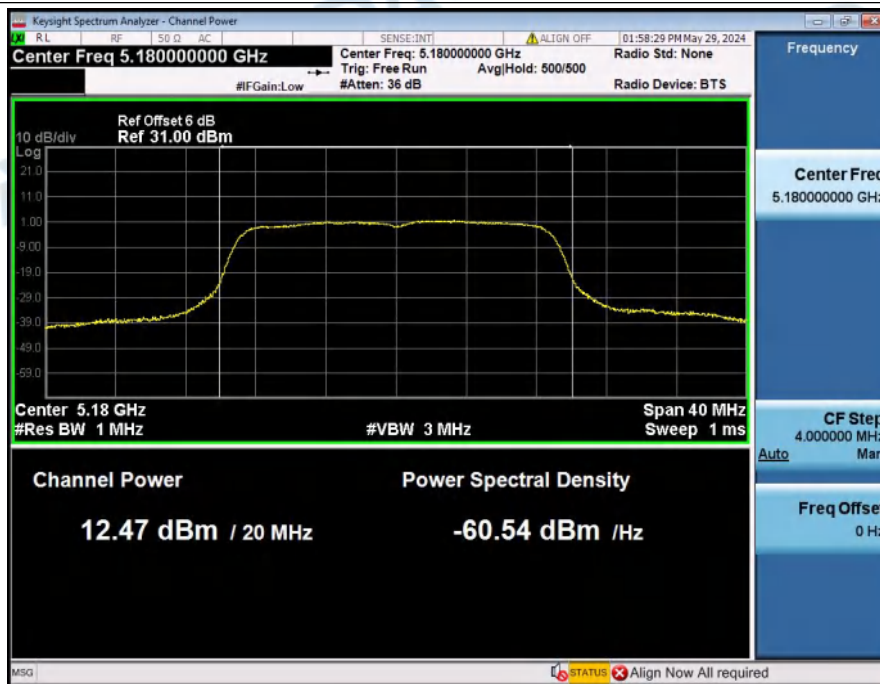
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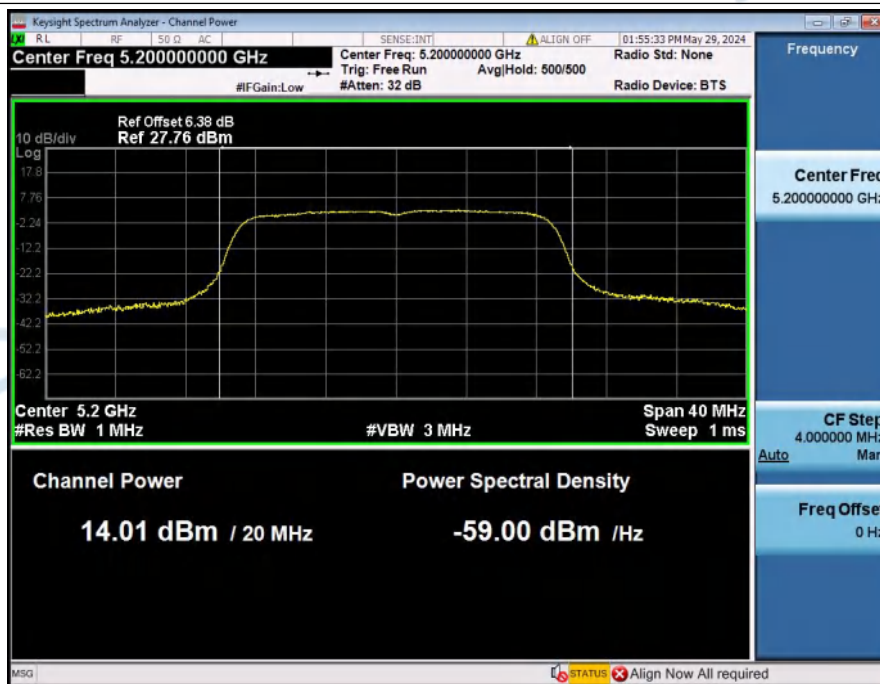
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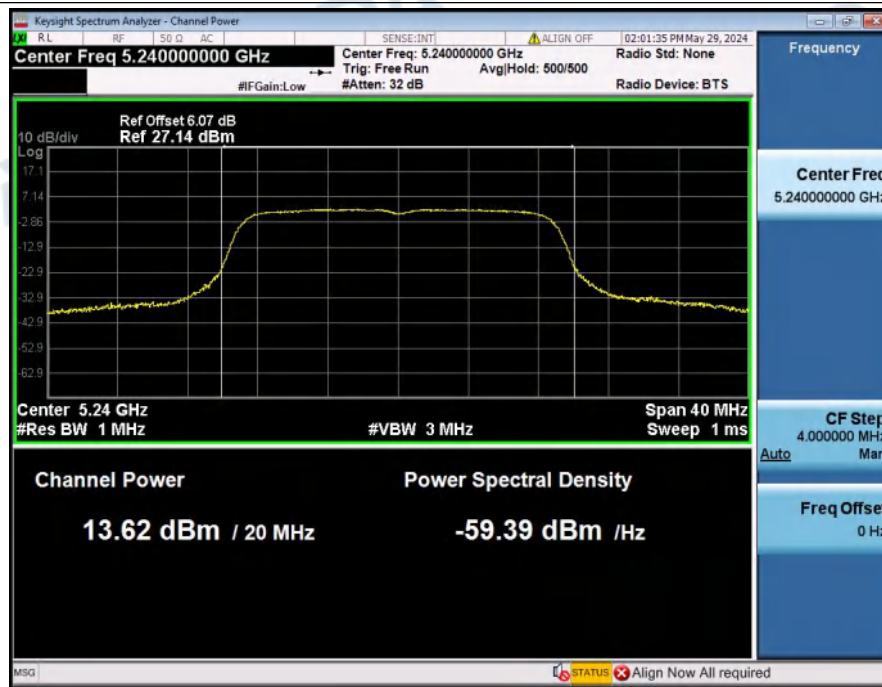
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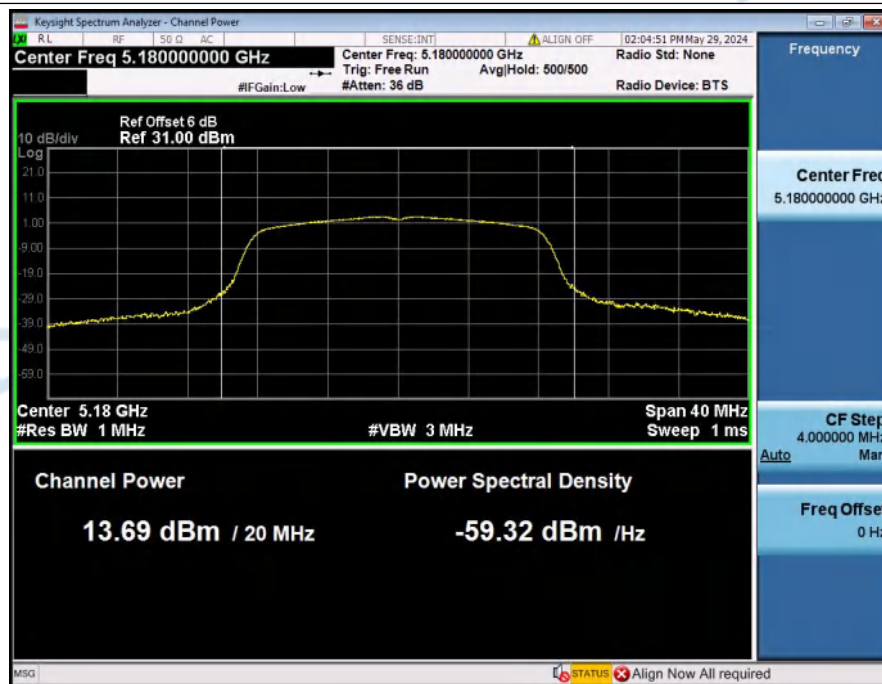
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Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5240_20M



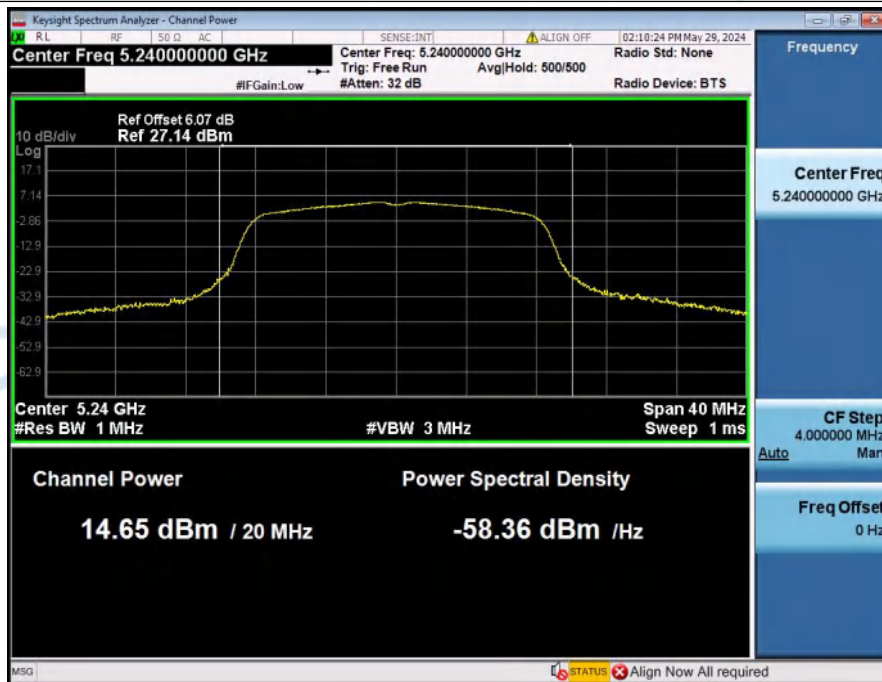
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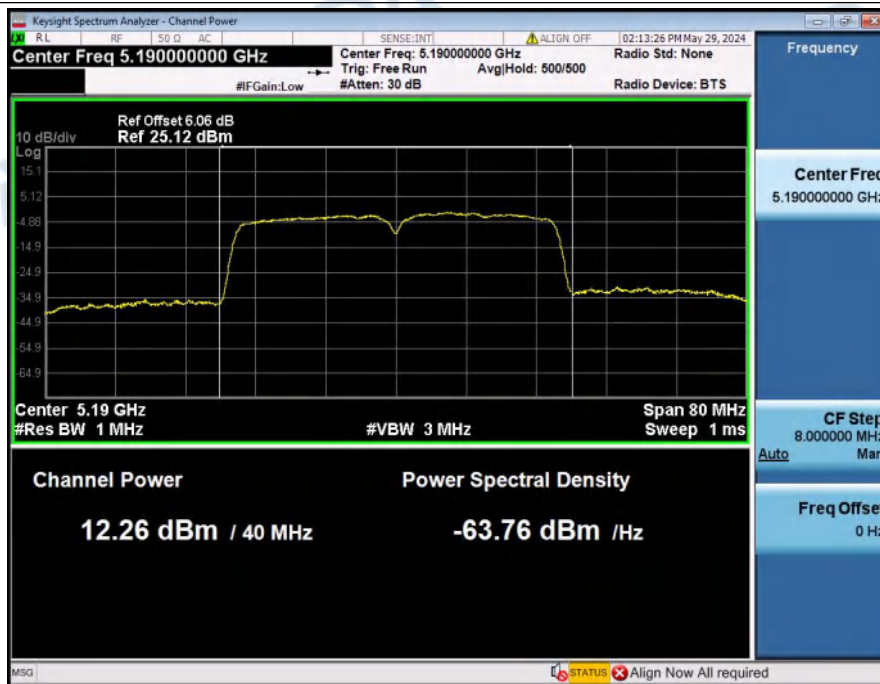
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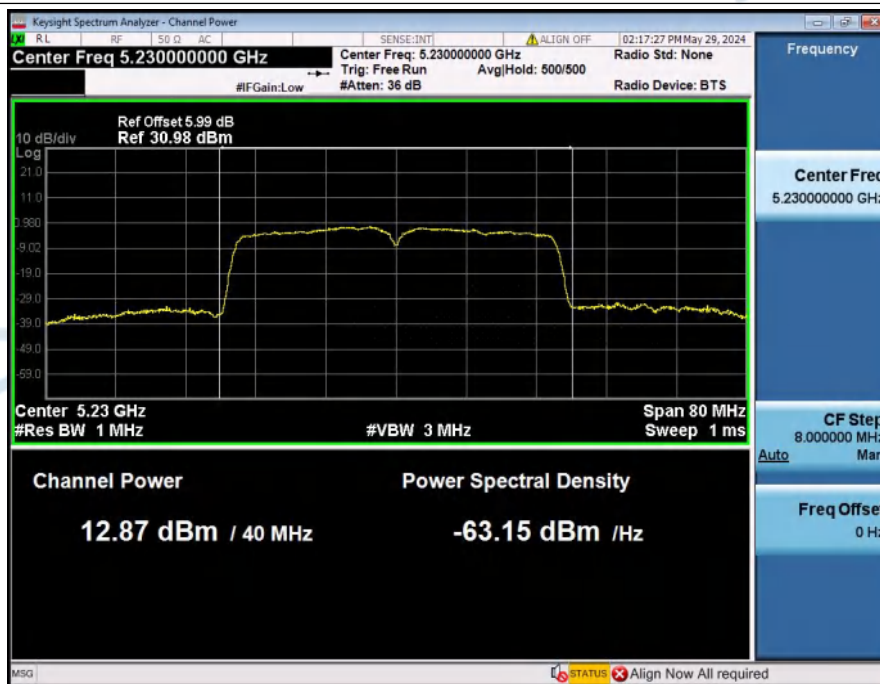
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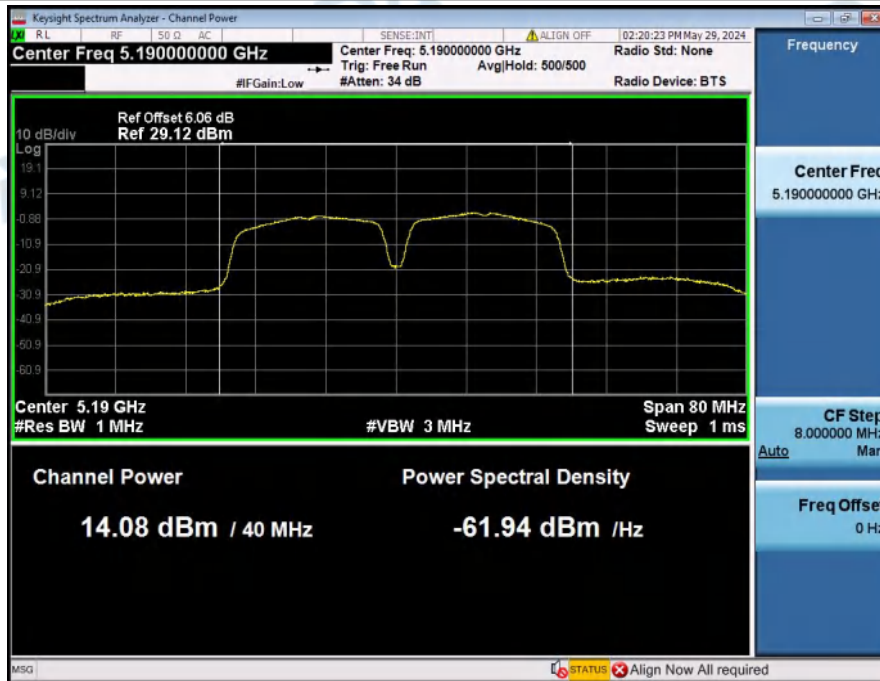
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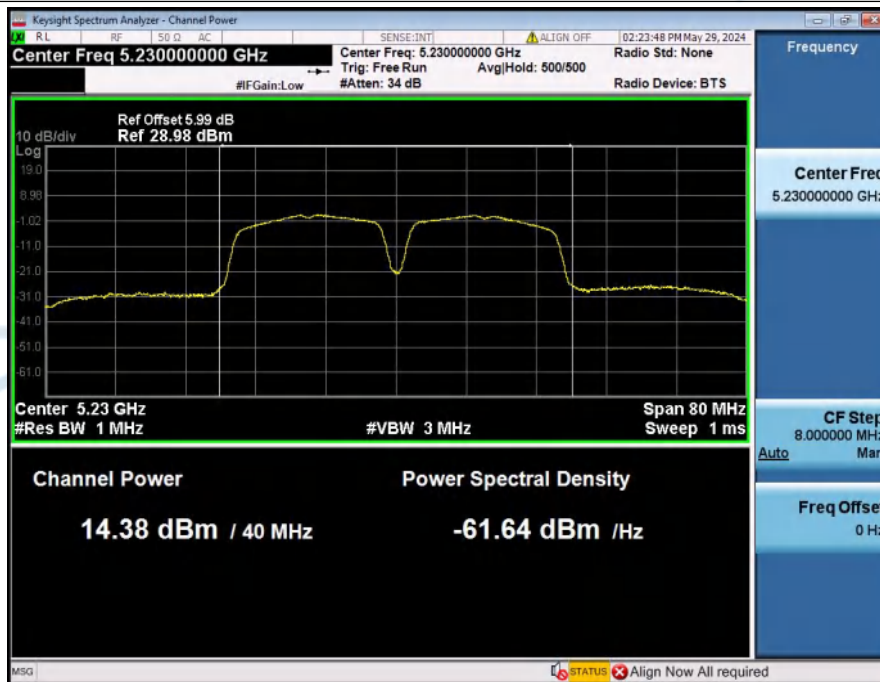
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Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT40)_5190_40M



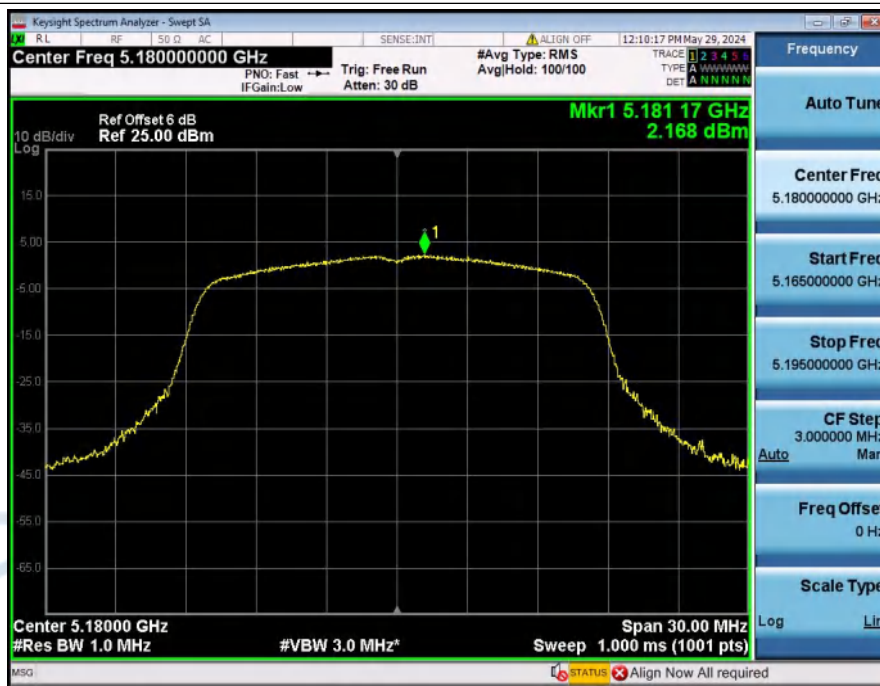
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT40)_5230_40M



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	2.17	0.88	3.05	11	Pass
NVNT	ANT1	802.11a	5200.00	2.91	0.84	3.75	11	Pass
NVNT	ANT1	802.11a	5240.00	2.41	0.84	3.25	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	2.02	2.81	4.83	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	3.45	2.60	6.05	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	3.21	2.22	5.43	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	3.76	0.81	4.57	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5.51	0.70	6.21	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	4.83	0.88	5.71	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-1.09	3.01	1.92	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-0.46	3.36	2.90	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	2.08	0.74	2.83	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	1.89	0.88	2.77	11	Pass

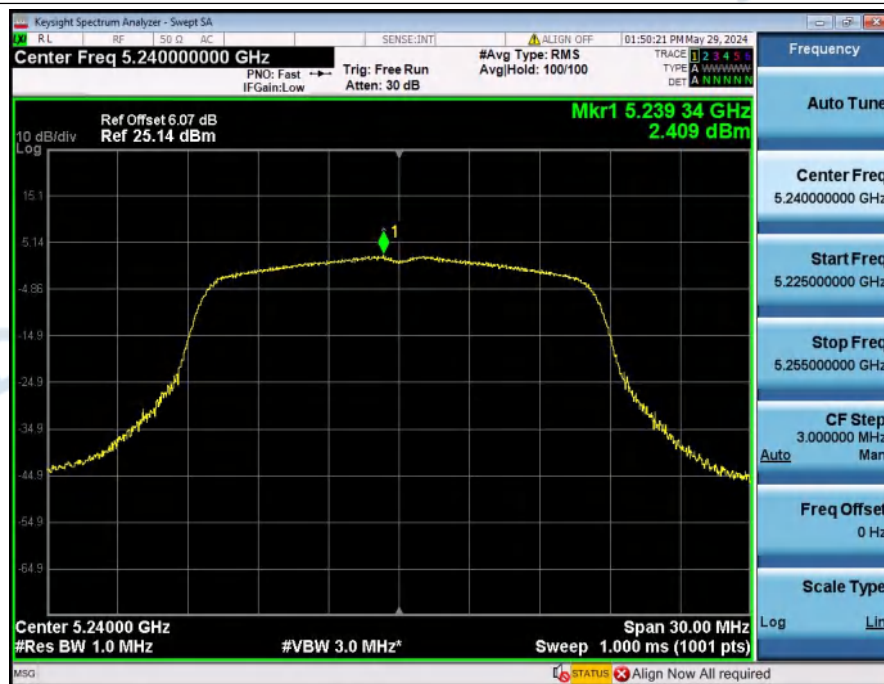
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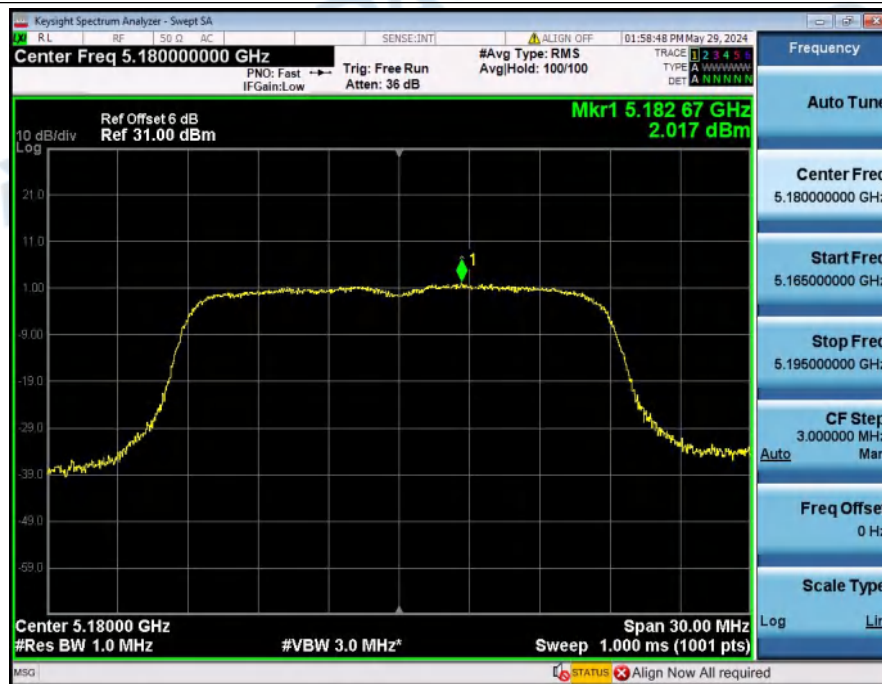
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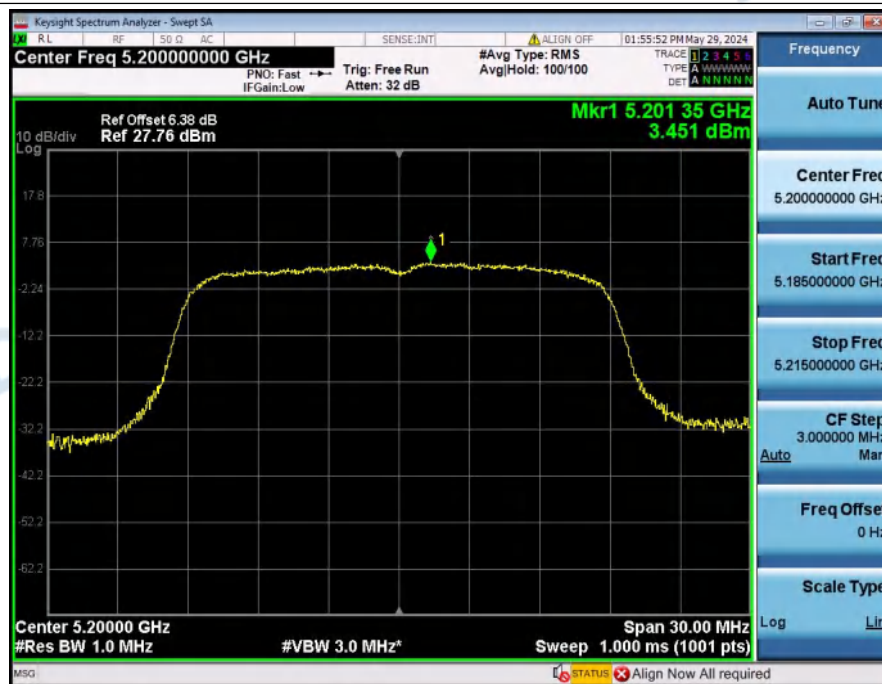
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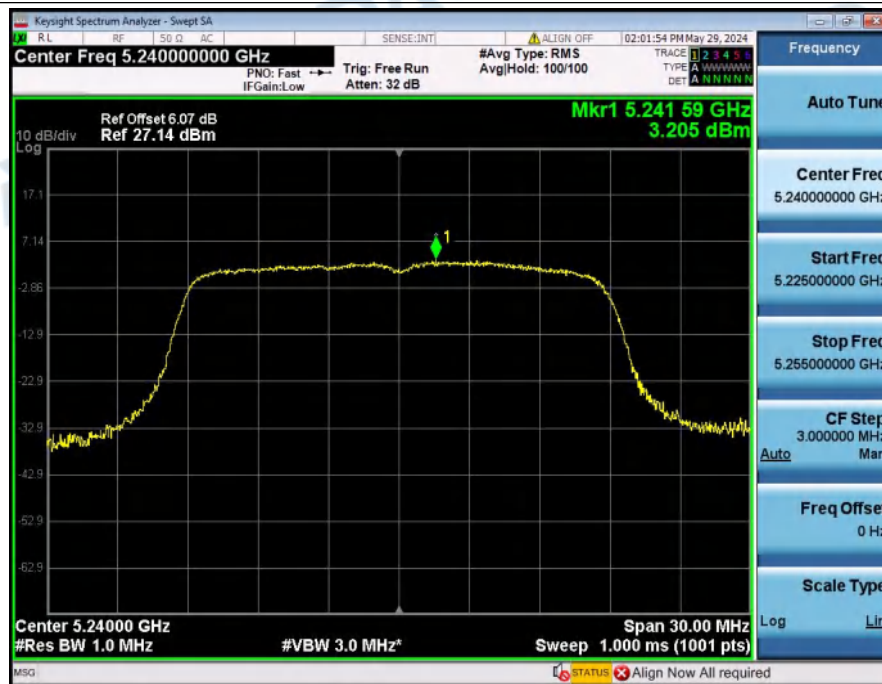
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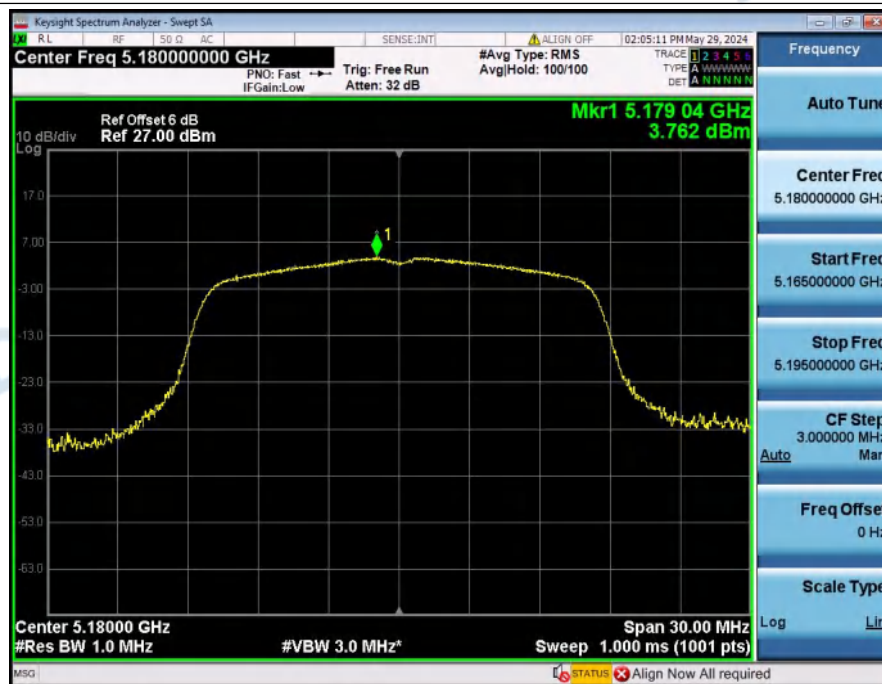
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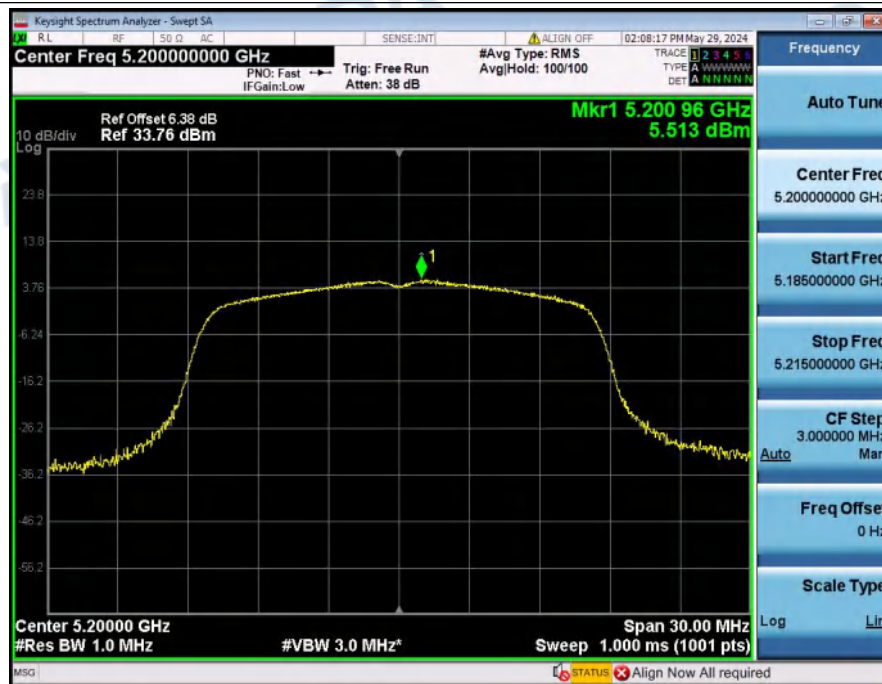
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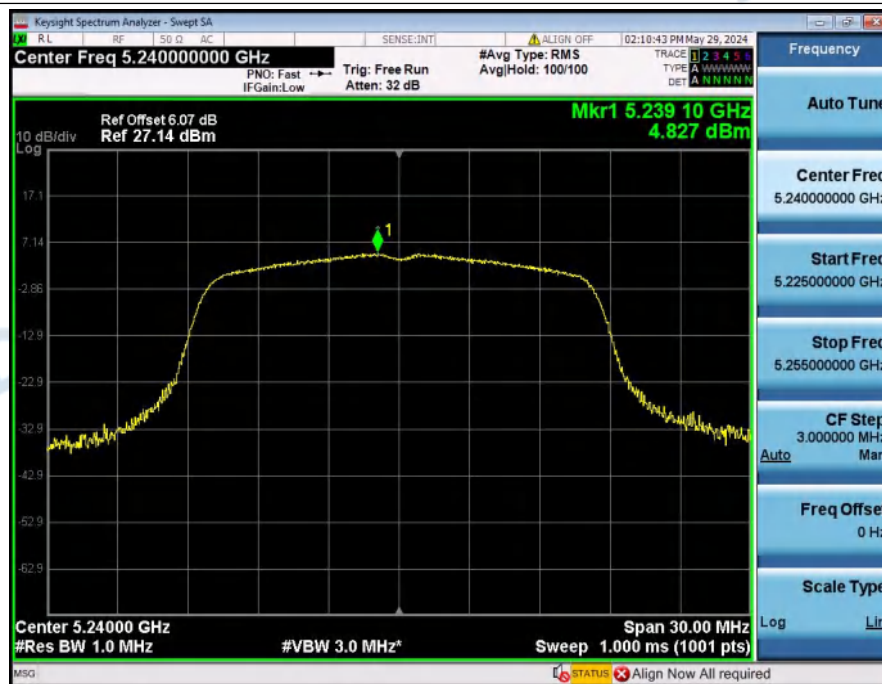
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5240



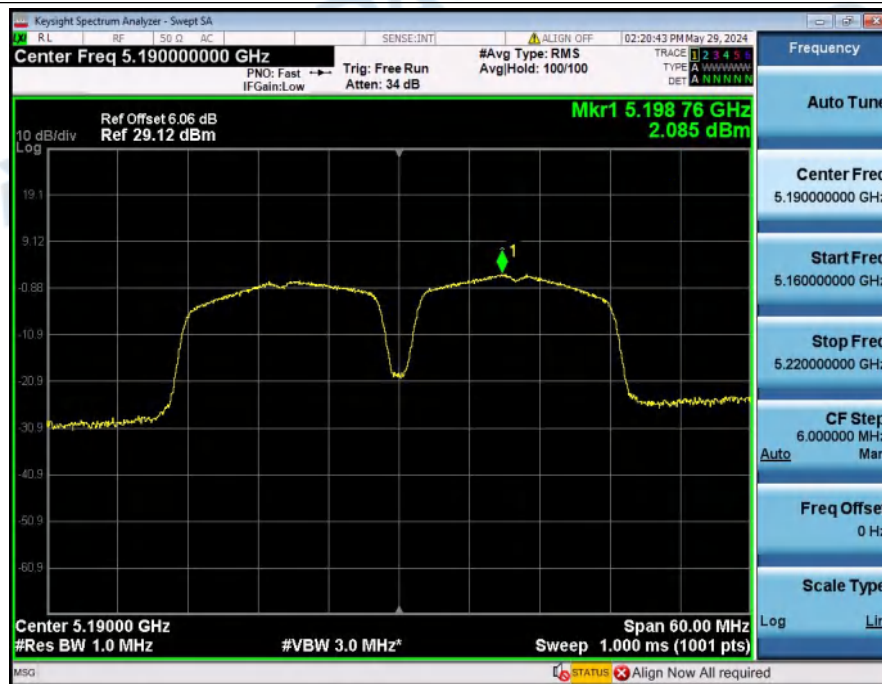
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5190



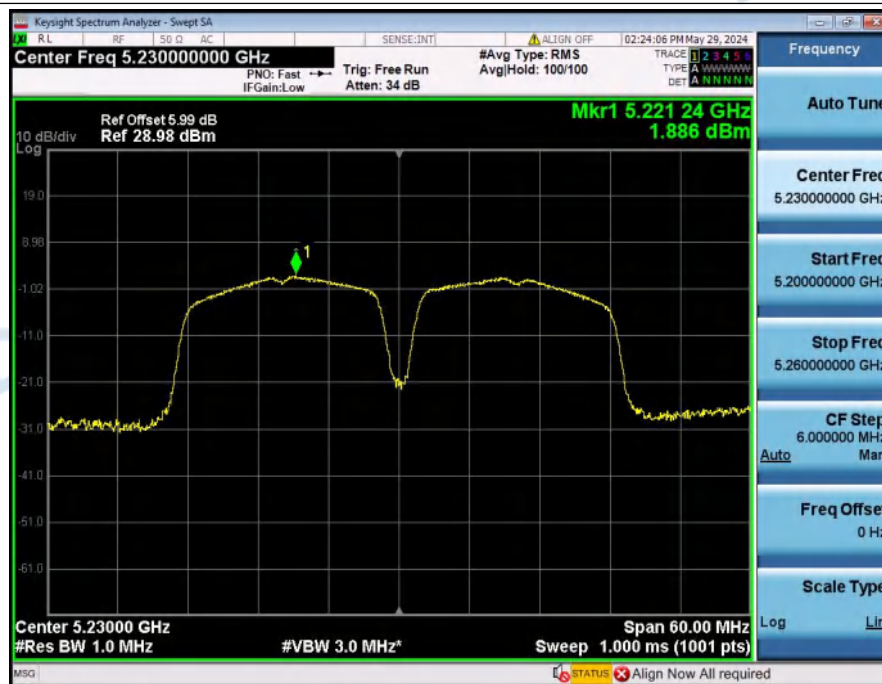
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190



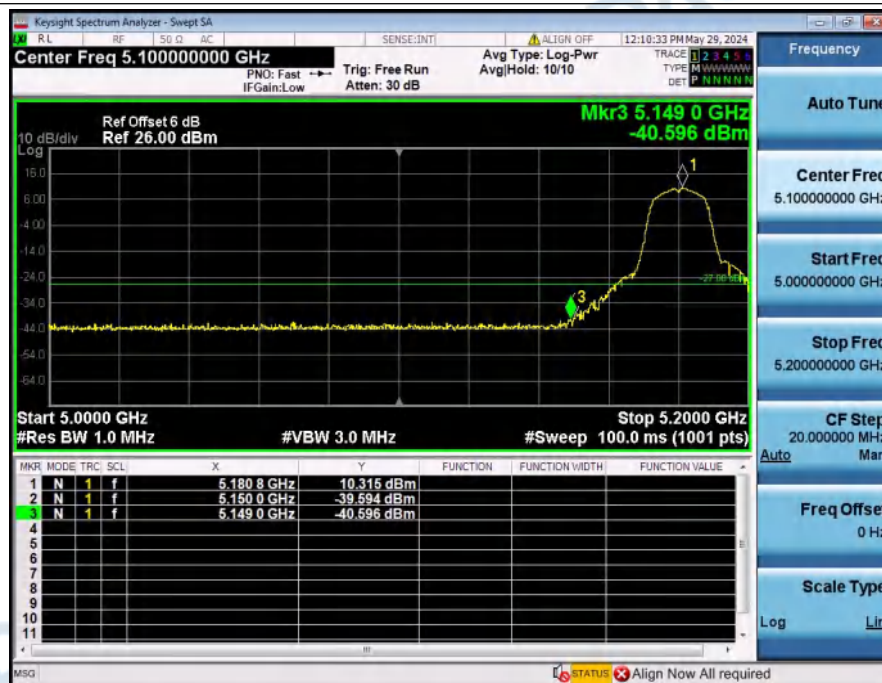
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230



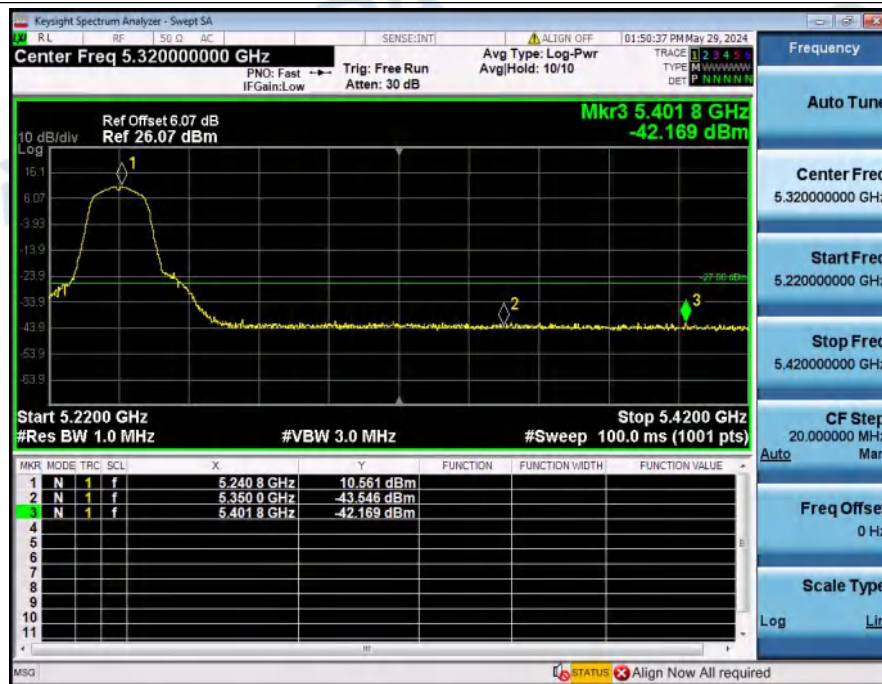
5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5149.00	-40.60	-27	Pass
NVNT	ANT1	802.11a	5240.00	5401.80	-42.17	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5149.00	-32.97	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5373.40	-41.98	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5149.20	-30.75	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5356.40	-41.55	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5147.42	-32.38	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5372.54	-41.57	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5149.94	-27.22	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5353.64	-38.89	-27	Pass

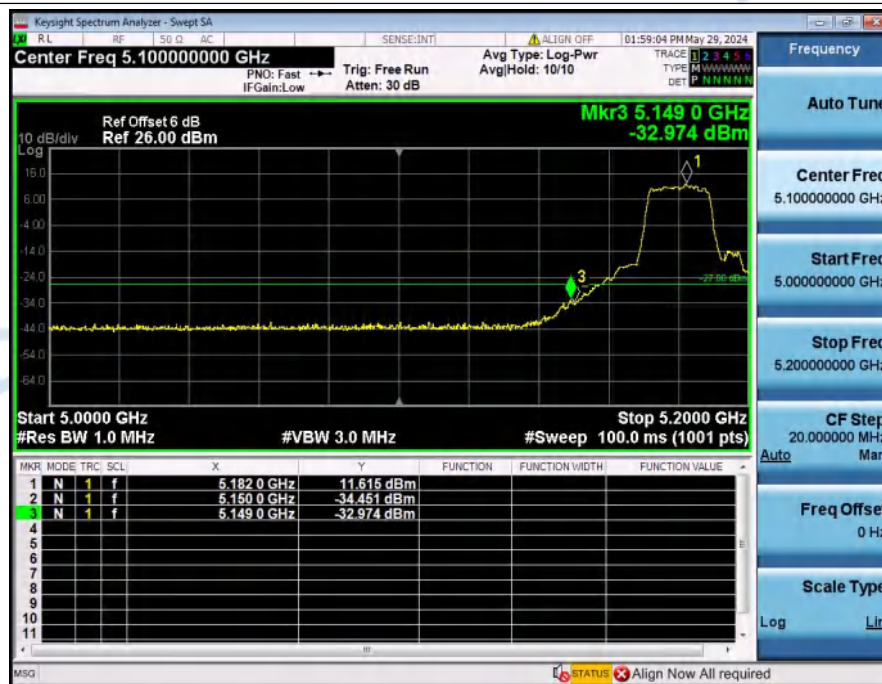
Bandedge_NVNT_ANT1_802_11a_5180



Bandedge_NVNT_ANT1_802_11a_5240



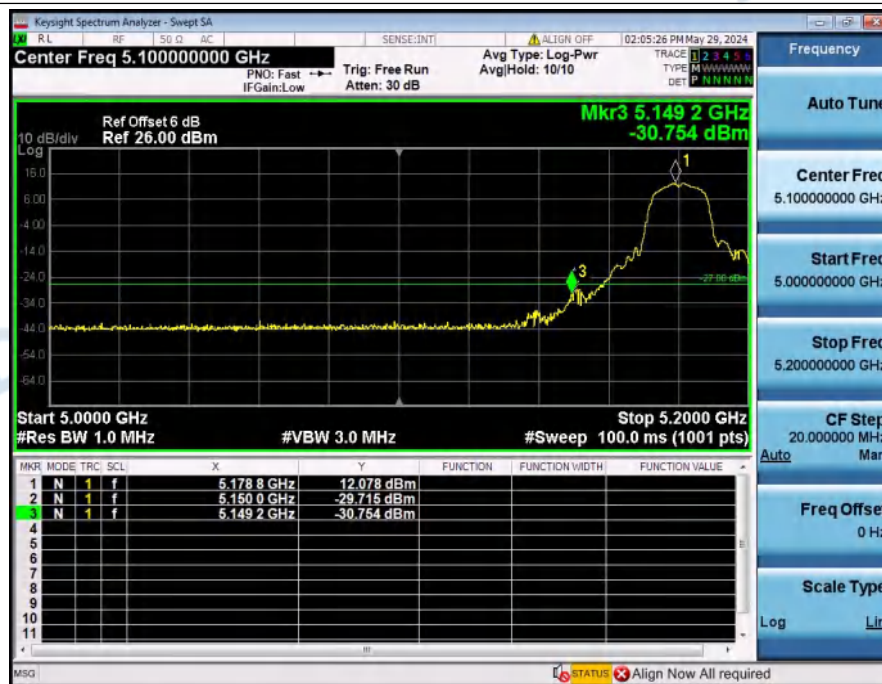
Bandedge_NVNT_ANT1_802_11n(HT20)_5180



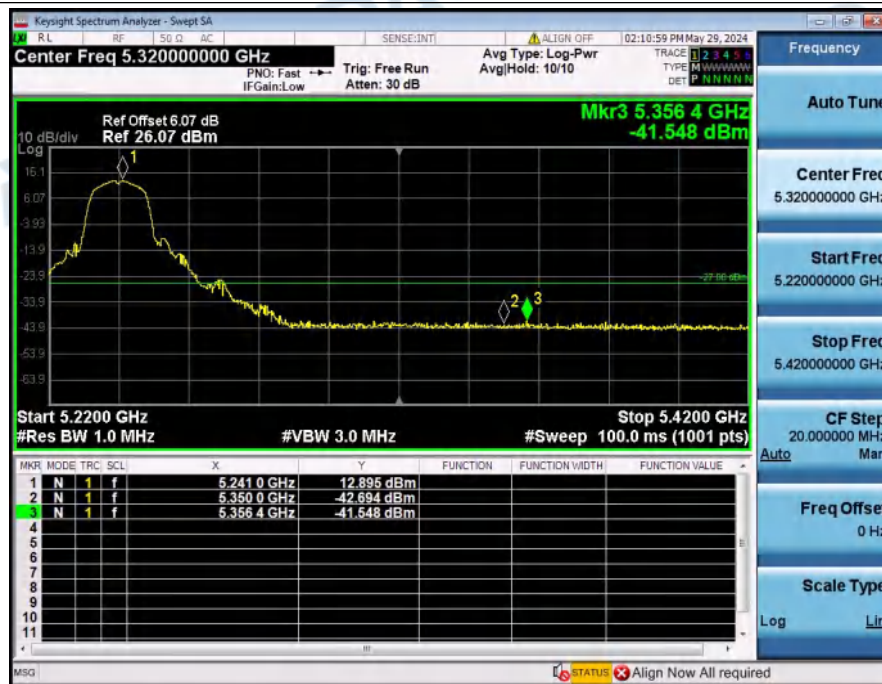
Bandedge_NVNT_ANT1_802_11n(HT20)_5240



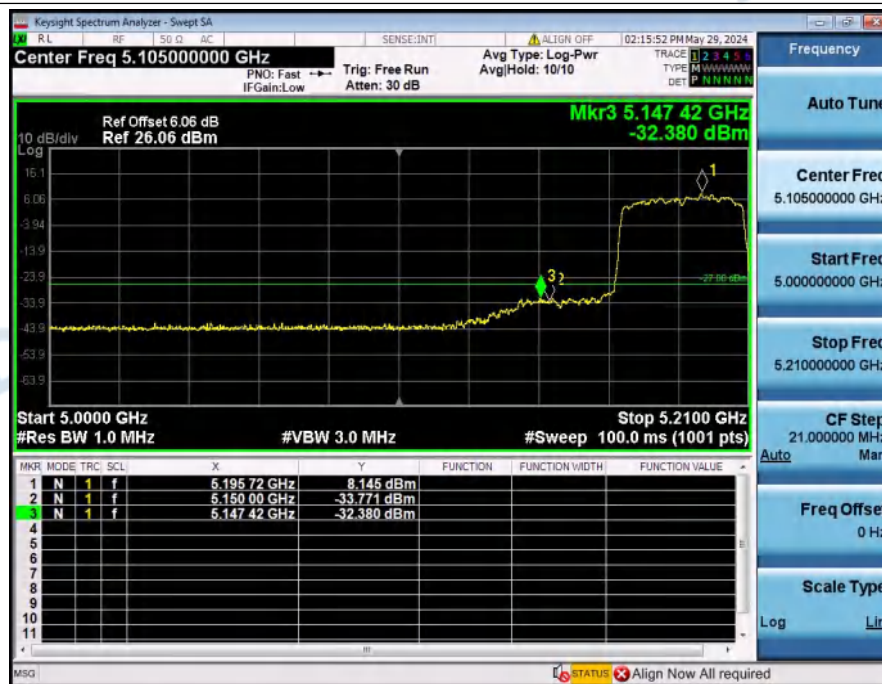
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Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



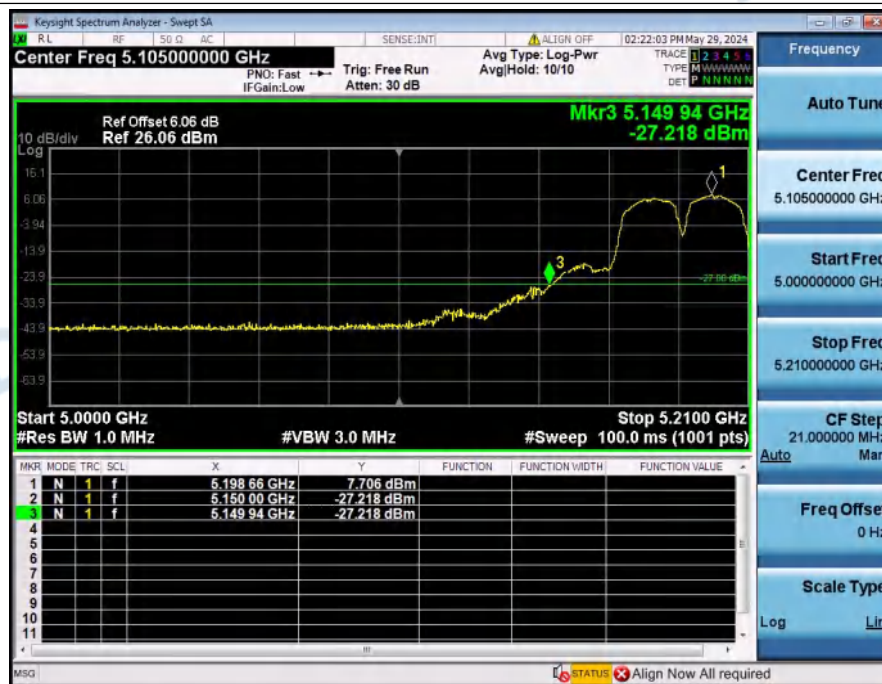
Bandedge_NVNT_ANT1_802_11n(HT40)_5190



Bandedge_NVNT_ANT1_802_11n(HT40)_5230



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5190



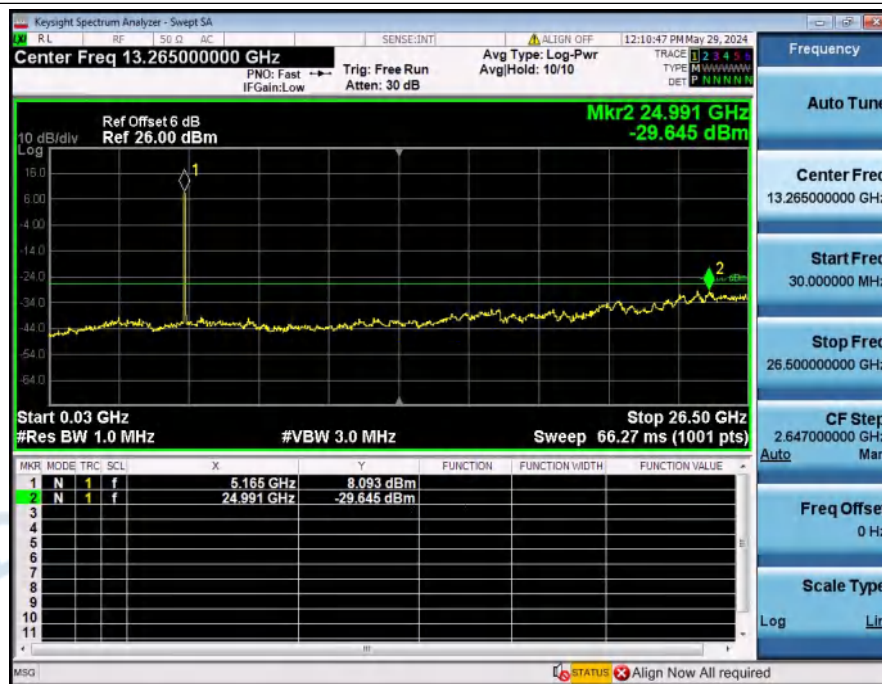
Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



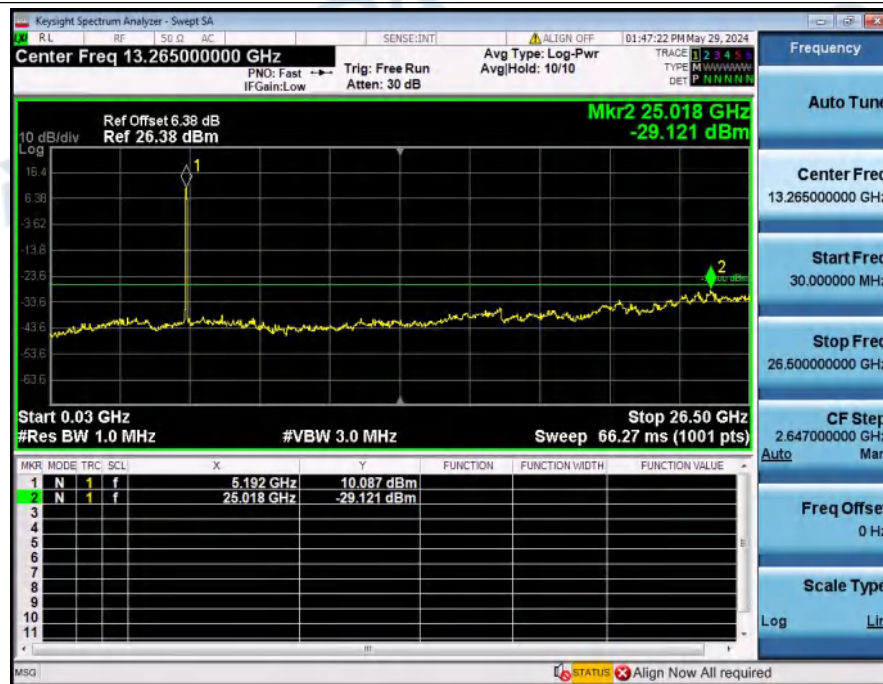
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	24991.21	-29.65	-27	Pass
NVNT	ANT1	802.11a	5200.00	25017.68	-29.12	-27	Pass
NVNT	ANT1	802.11a	5240.00	24885.33	-28.57	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	24885.33	-28.80	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	24991.21	-29.69	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	25044.15	-30.35	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25044.15	-29.88	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	24991.21	-29.53	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	25044.15	-29.43	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	24567.69	-29.67	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	26208.83	-30.31	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	25044.15	-29.85	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	25017.68	-30.26	-27	Pass

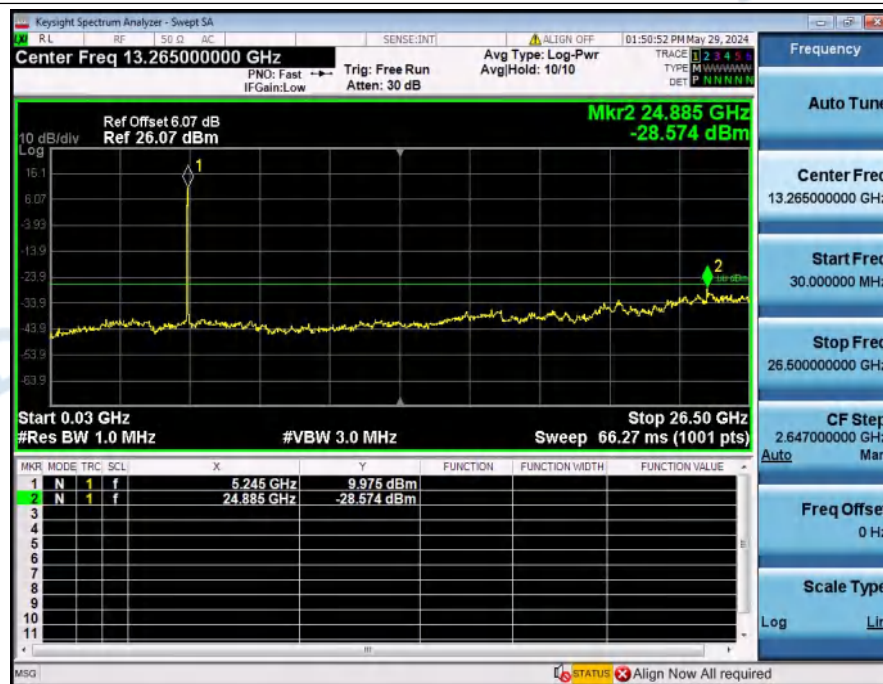
Spurious_Emission_NVNT_ANT1_802_11a_5180_20M



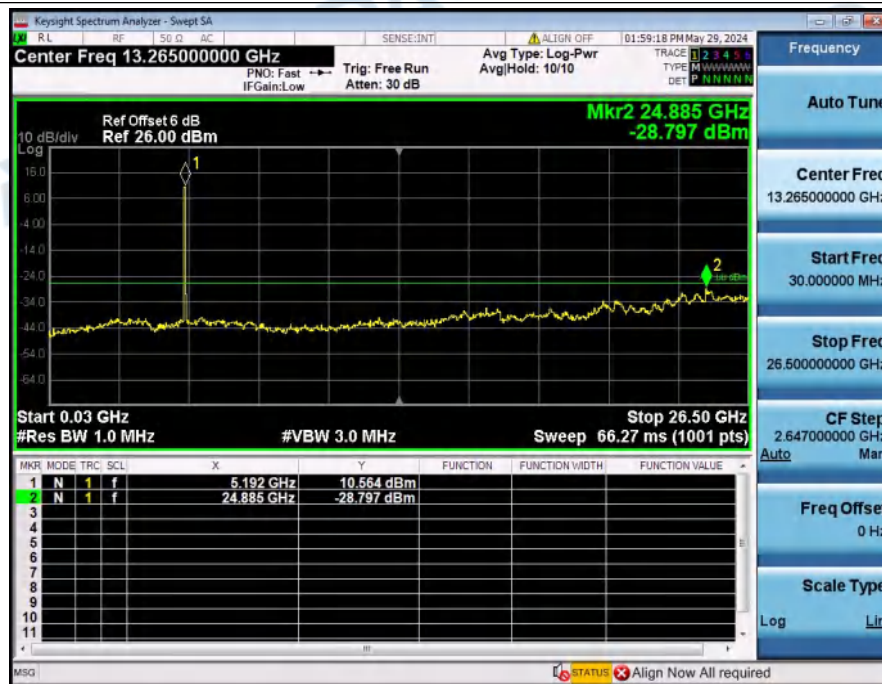
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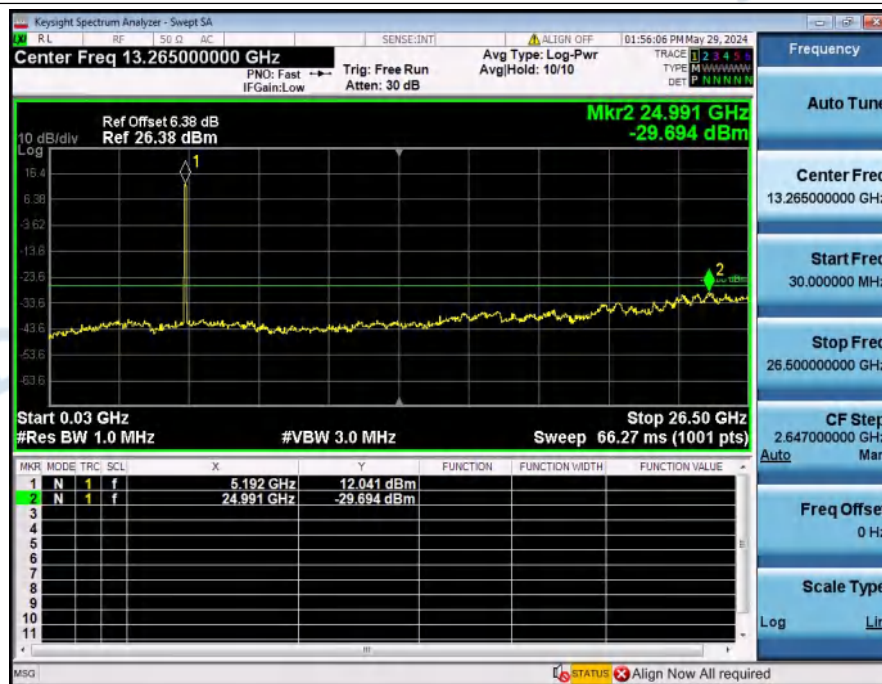
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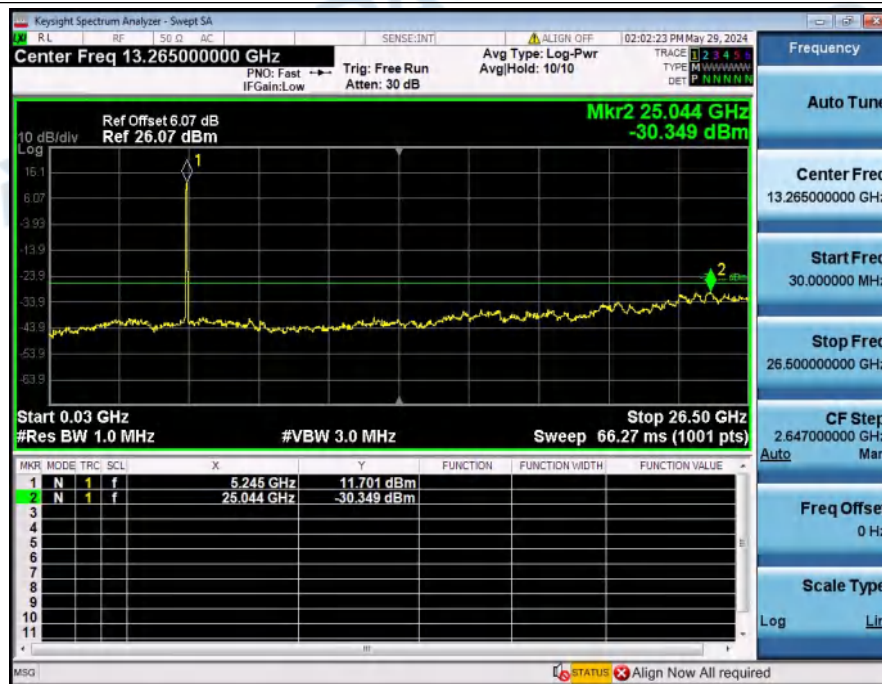
Spurious_Emission_NVNT_ANT1_802_11n(HT20)_5180_20M



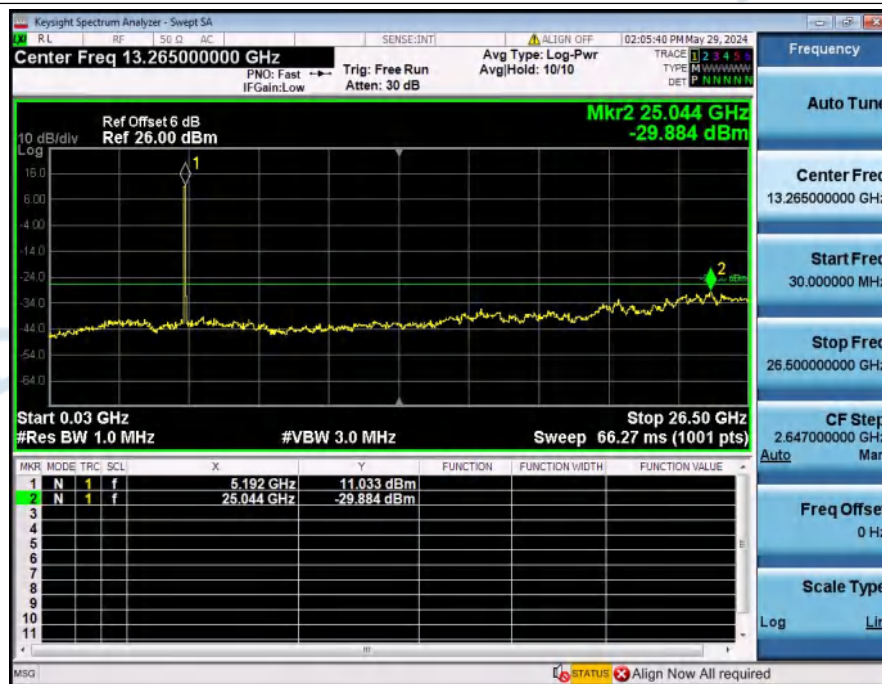
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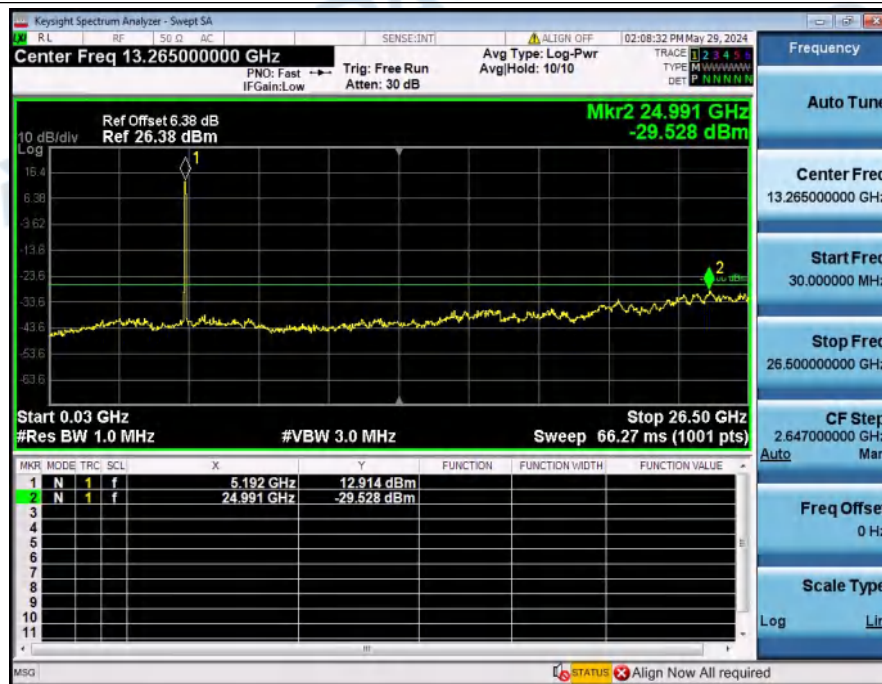
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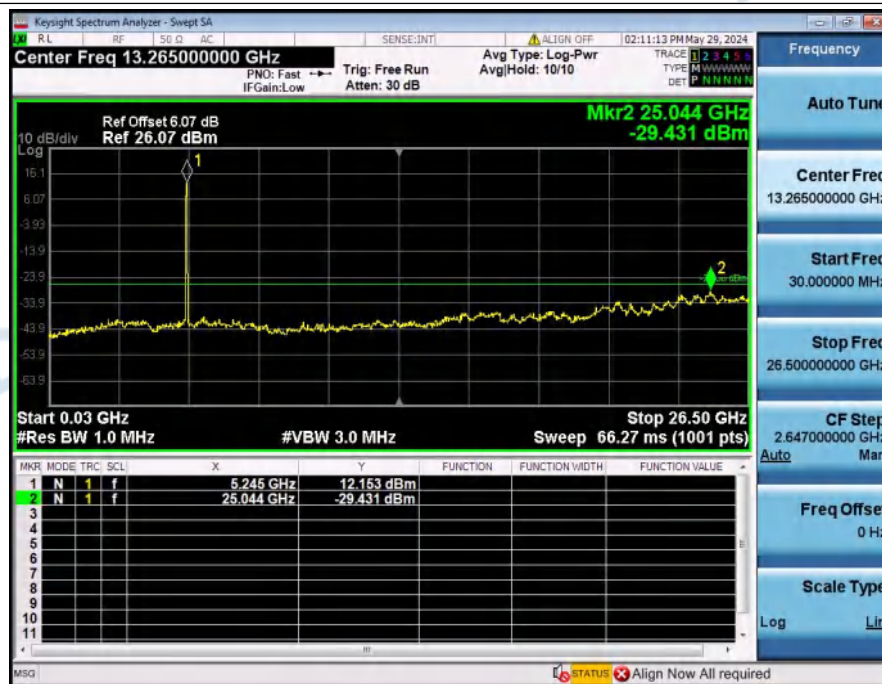
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5180_20M



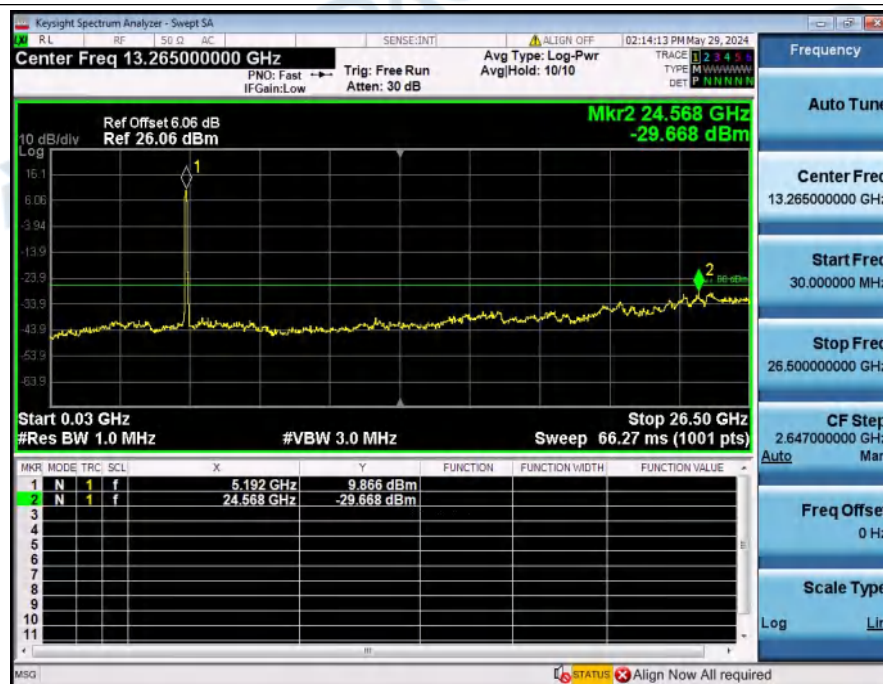
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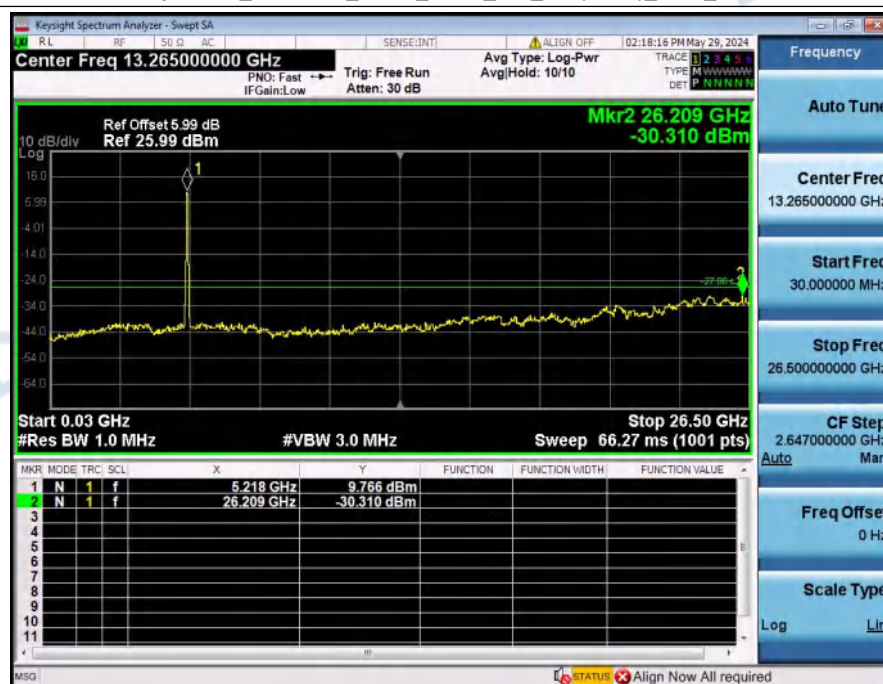
Spurious_Emission_NVNT_ANT1_802_11ac(VHT20)_5240_20M



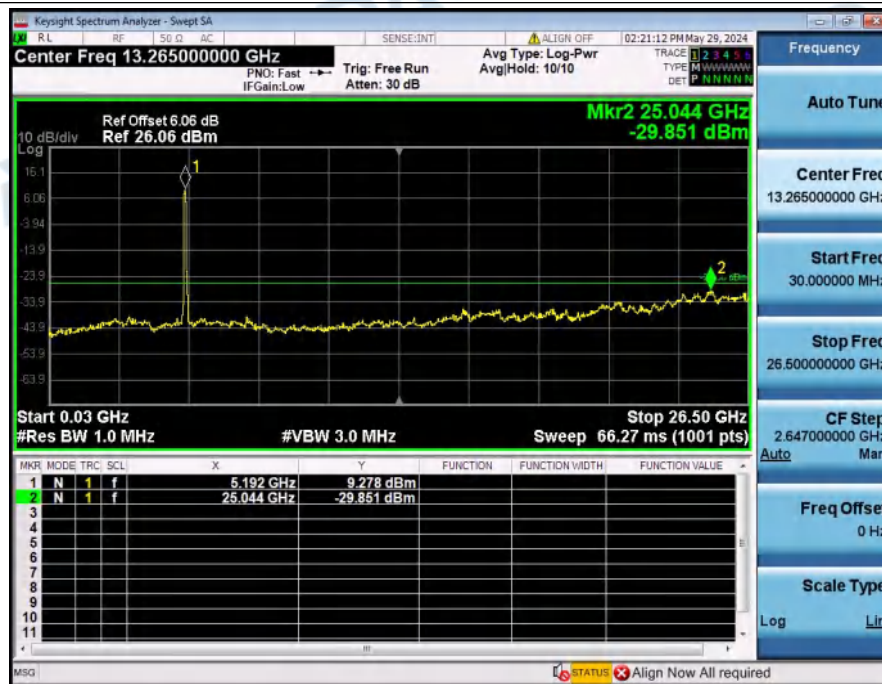
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5190_40M



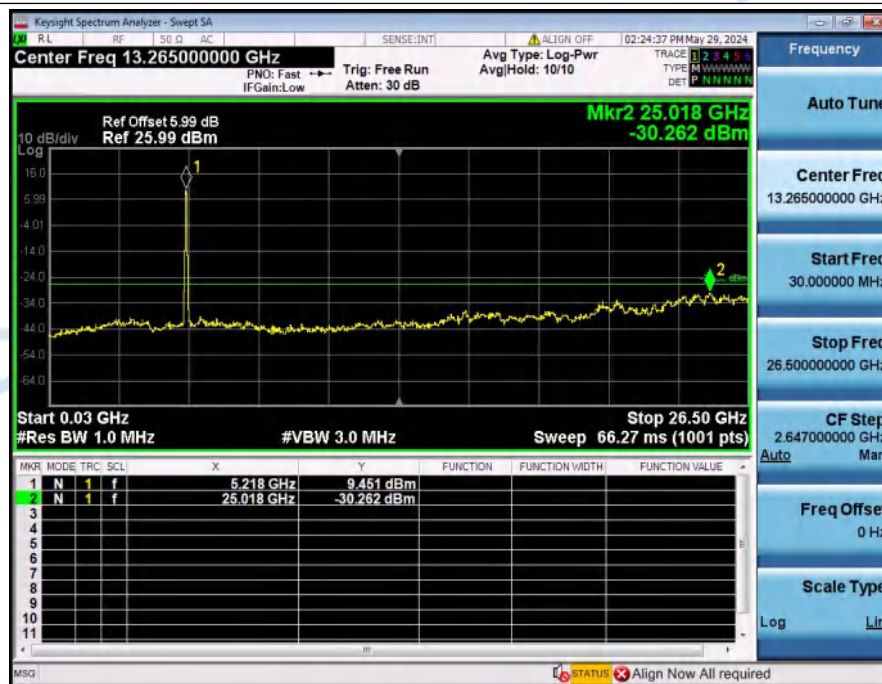
Spurious_Emission_NVNT_ANT1_802_11n(HT40)_5230_40M



Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5190_40M



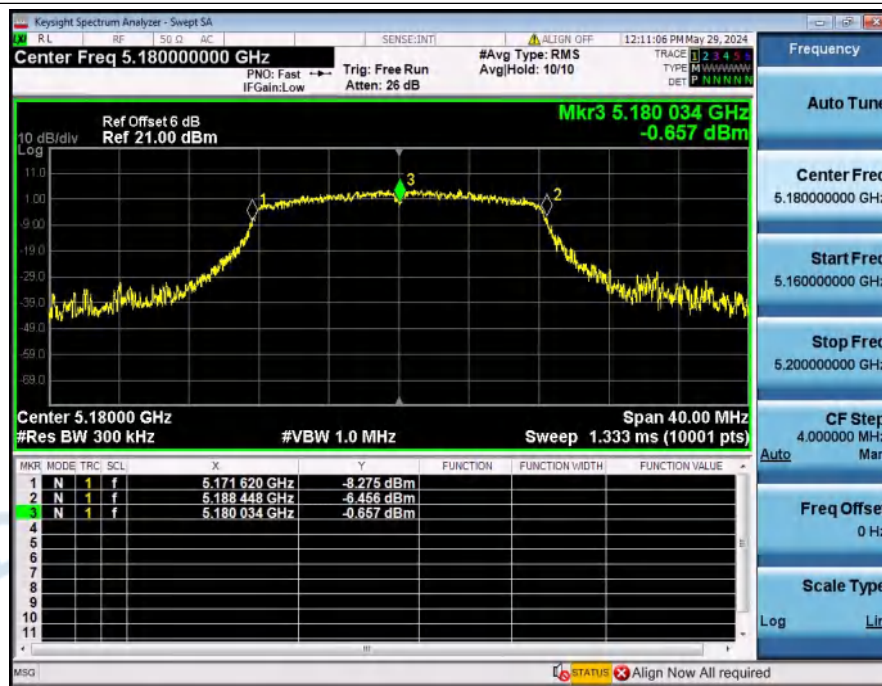
Spurious_Emission_NVNT_ANT1_802_11ac(VHT40)_5230_40M



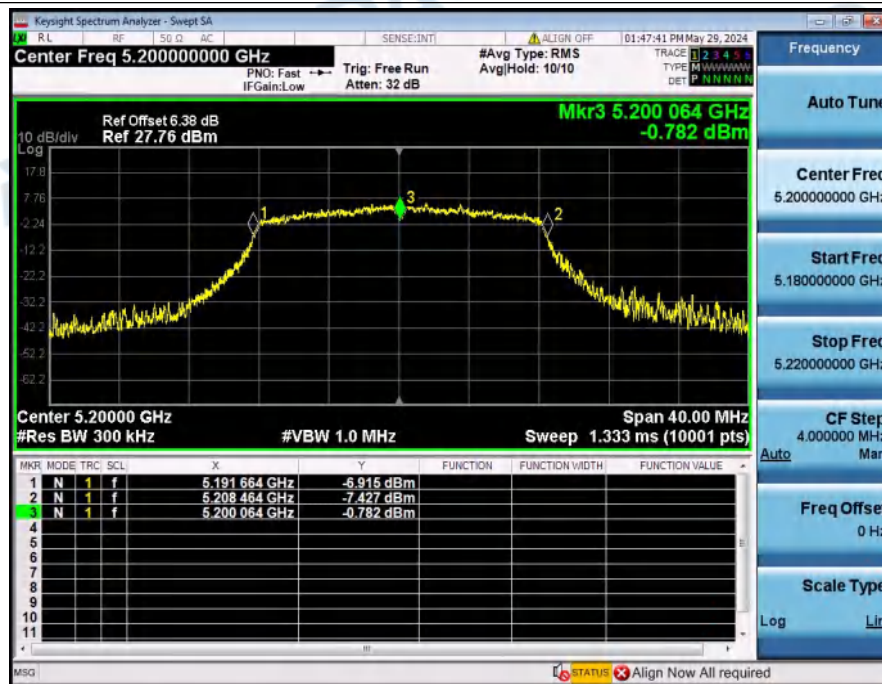
7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fi(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.034	5171.620	5188.448	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5200.064	5191.664	5208.464	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.040	5231.644	5248.436	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5180.006	5171.012	5189.000	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5200.010	5191.020	5209.000	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5239.980	5230.996	5248.964	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5180.086	5171.604	5188.568	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5200.106	5191.676	5208.536	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5240.064	5231.608	5248.520	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5190.124	5171.896	5208.352	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5230.080	5211.864	5248.296	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5193.324	5171.664	5214.984	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5230.060	5211.904	5248.216	5150~5250	Pass

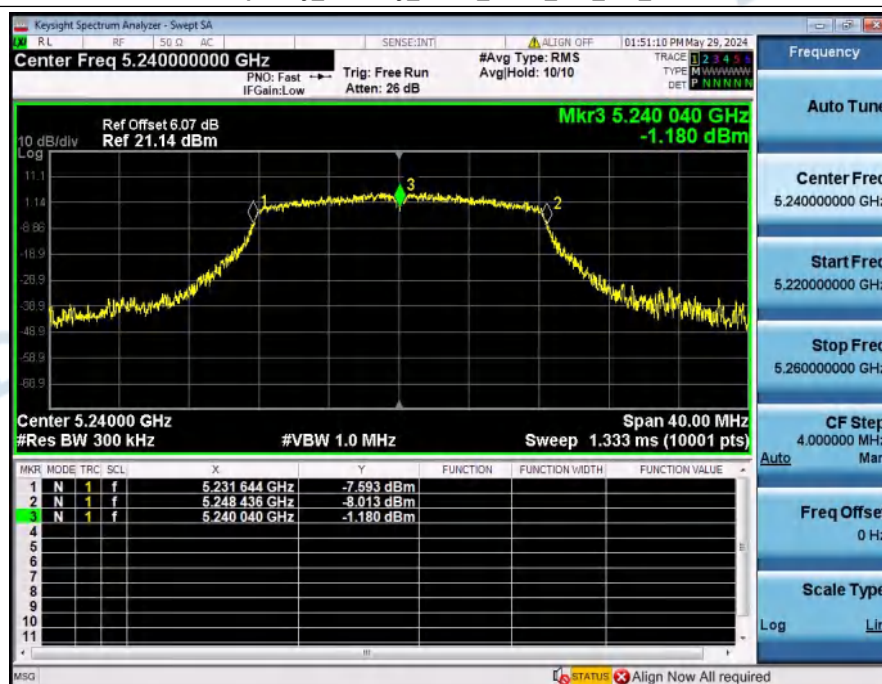
Frequency_Stability_NVNT_ANT1_802_11a_5180



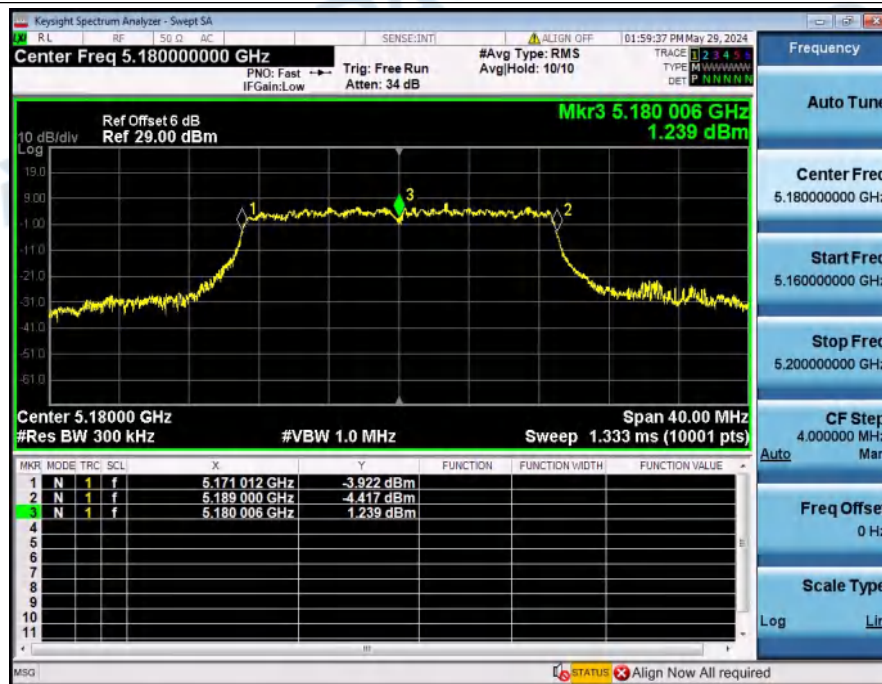
Frequency_Stability_NVNT_ANT1_802_11a_5200



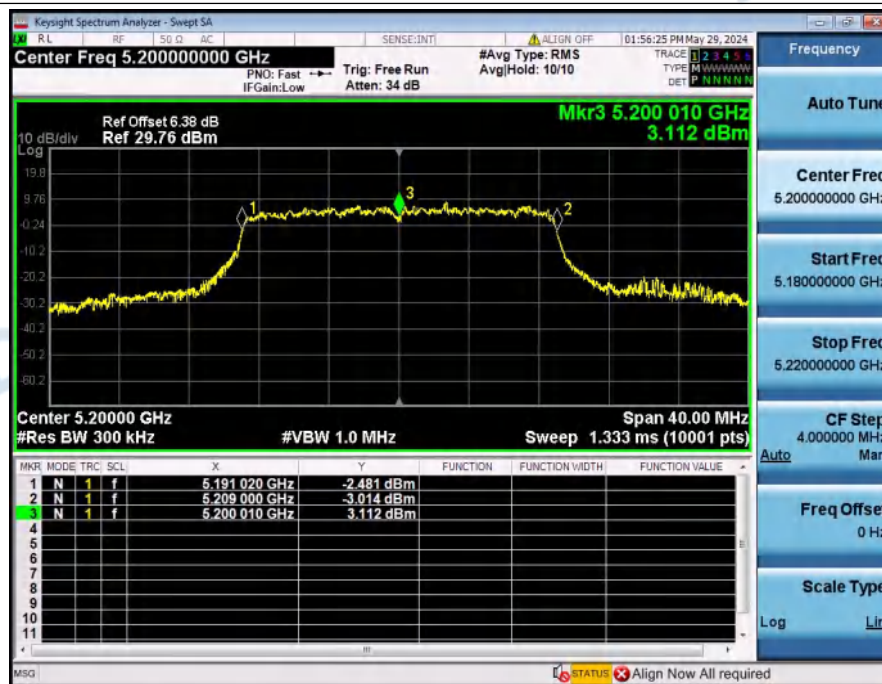
Frequency_Stability_NVNT_ANT1_802_11a_5240



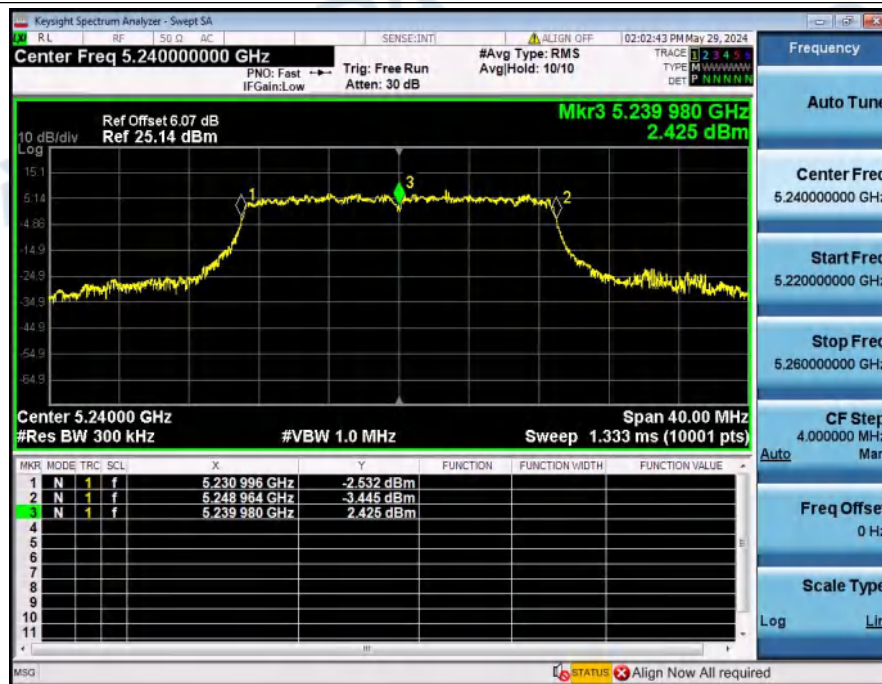
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5180



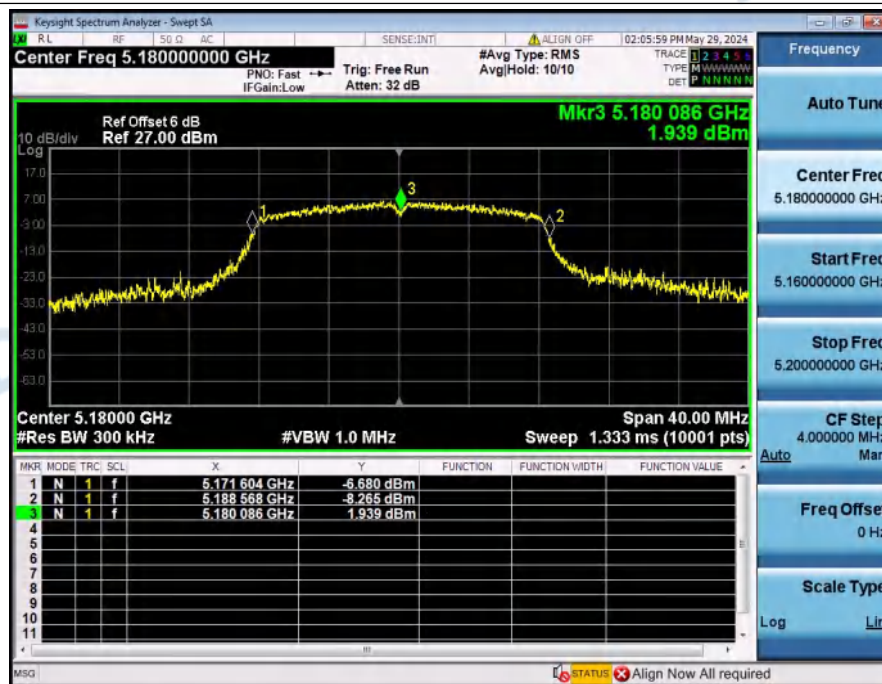
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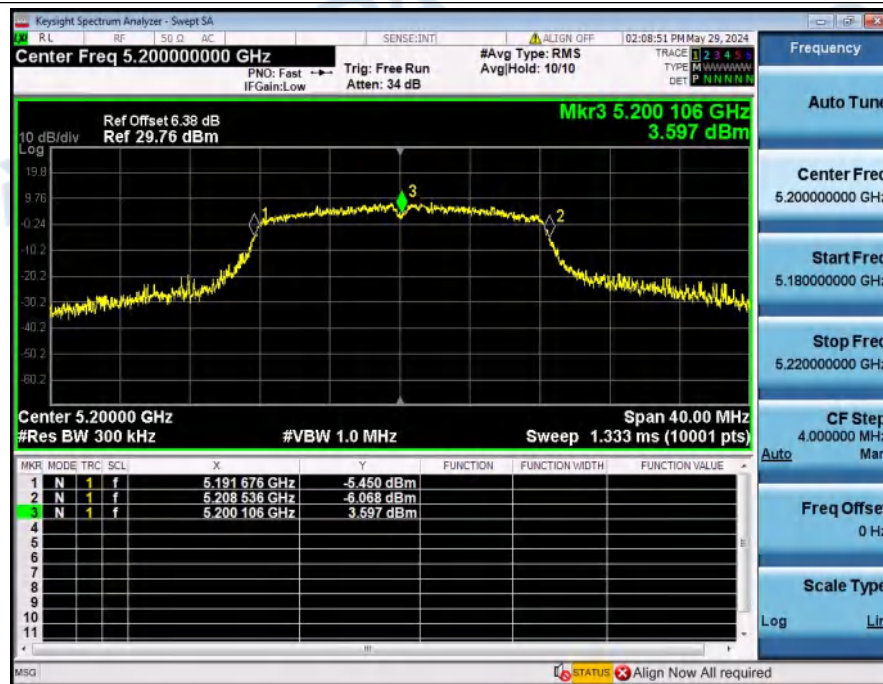
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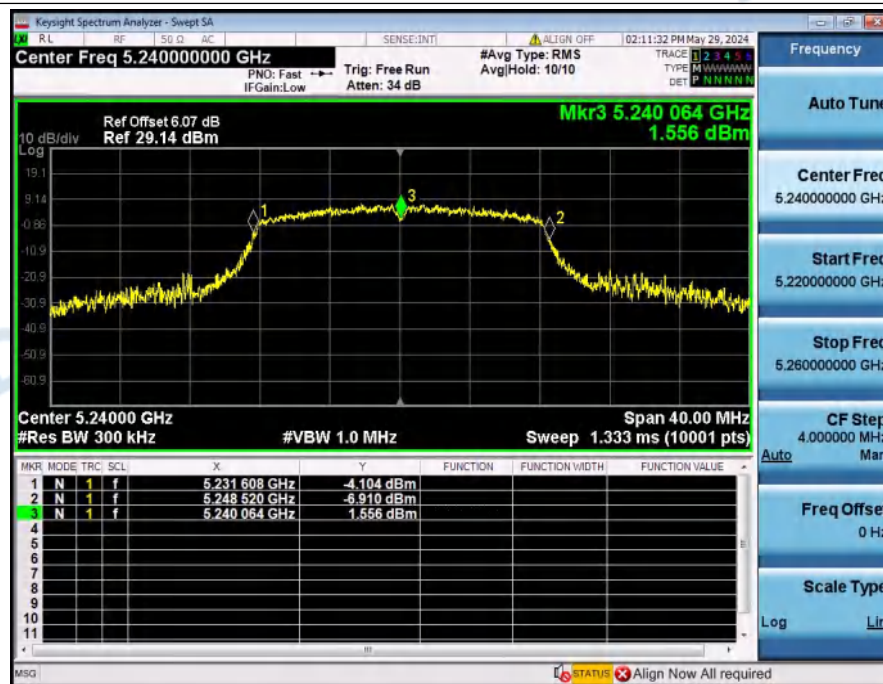
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5180



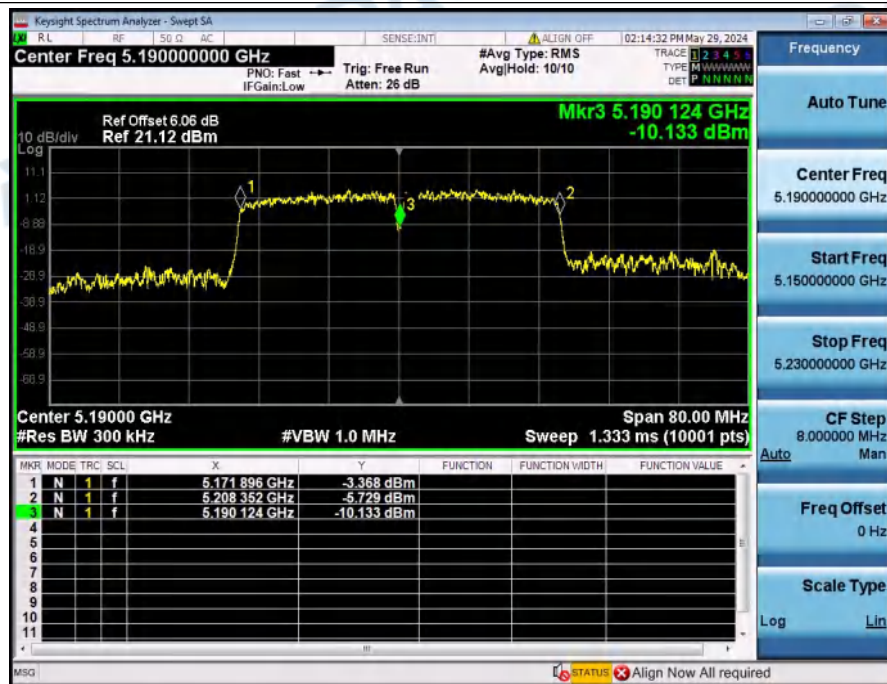
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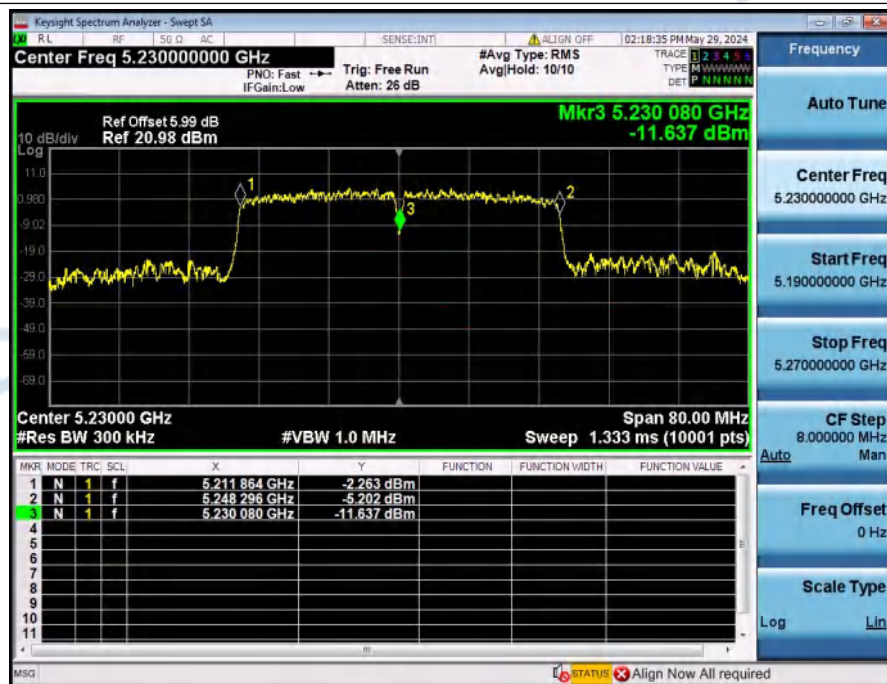
Frequency_Stability_NVNT_ANT1_802_11ac(VHT20)_5240



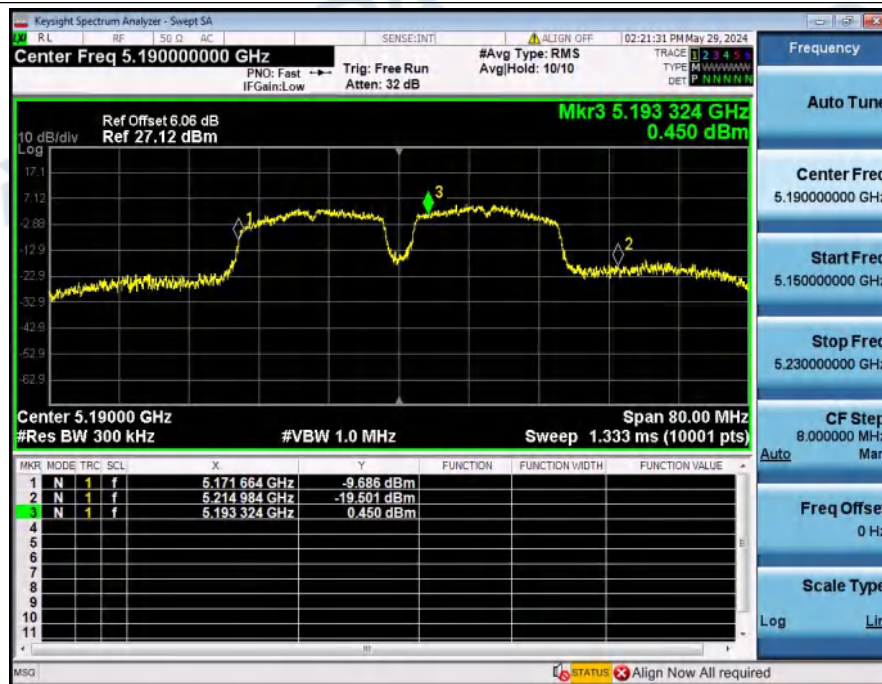
Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5190



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5230



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5190



Frequency_Stability_NVNT_ANT1_802_11ac(VHT40)_5230

