

Table of Contents

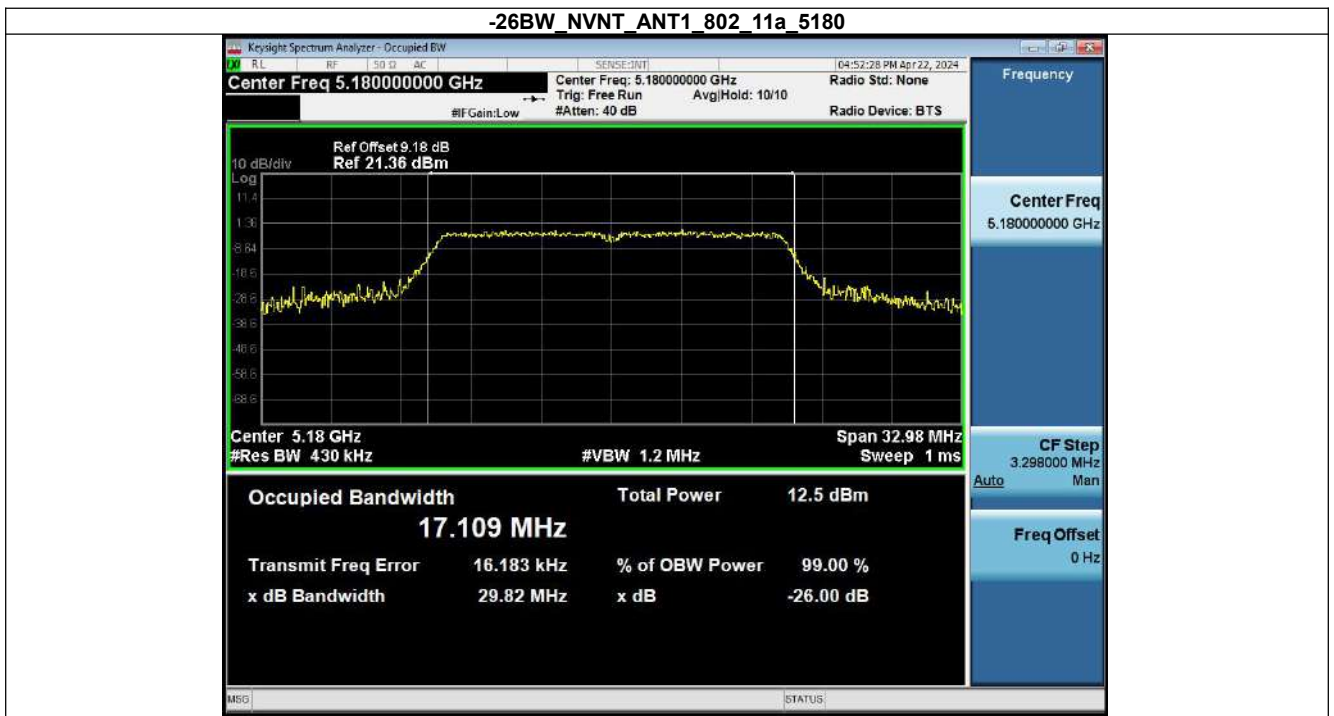
1. -26dB and 99% Emission Bandwidth	2
2. Duty Cycle	10
3. Maximum Conducted Output Power	18
4. Power Spectral Density	26
5. Bandedge	34
6. Spurious Emission	40
7. Frequency Stability	48

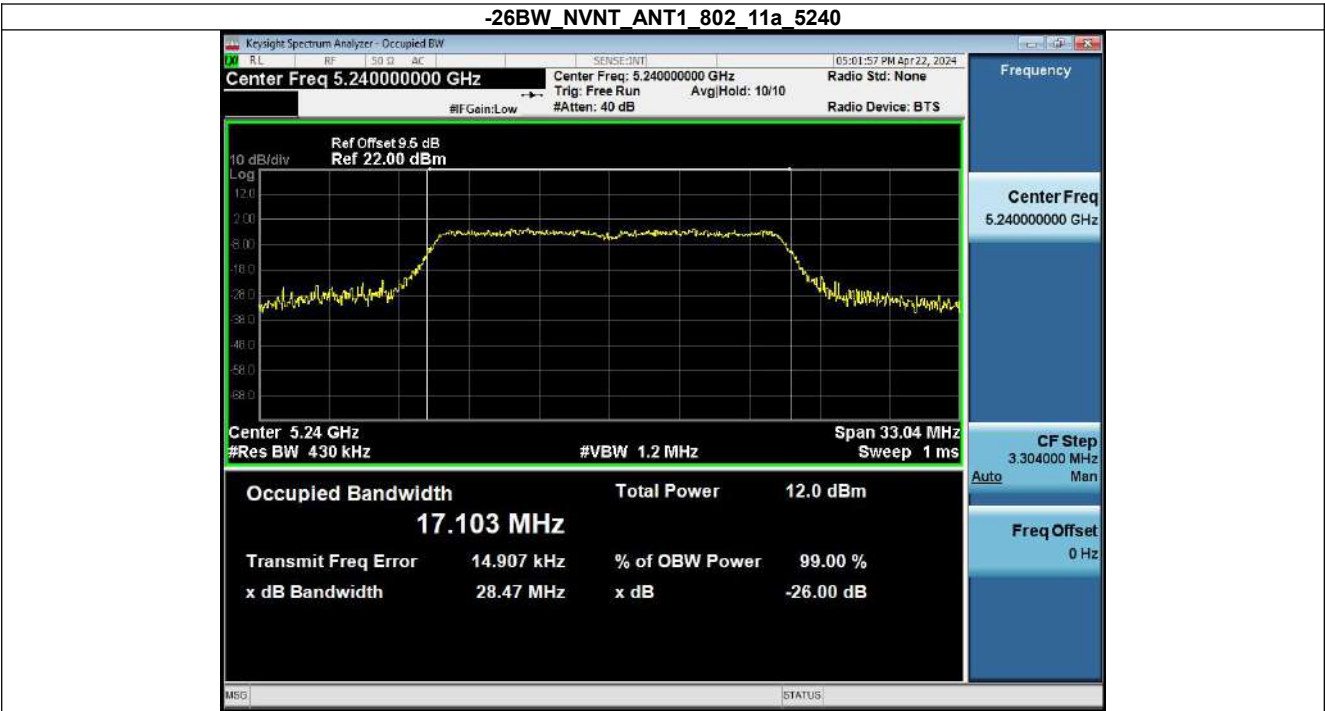
240422 FCC ID WIFI5.2

FCC_5.2G_WIFI (Part15.407) Test Data

1. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	29.82
NVNT	ANT1	802.11a	5200.00	29.85
NVNT	ANT1	802.11a	5240.00	28.47
NVNT	ANT1	802.11n(HT20)	5180.00	29.84
NVNT	ANT1	802.11n(HT20)	5200.00	32.60
NVNT	ANT1	802.11n(HT20)	5240.00	27.88
NVNT	ANT1	802.11ac(VHT20)	5180.00	32.56
NVNT	ANT1	802.11ac(VHT20)	5200.00	32.68
NVNT	ANT1	802.11ac(VHT20)	5240.00	32.50
NVNT	ANT1	802.11n(HT40)	5190.00	47.61
NVNT	ANT1	802.11n(HT40)	5230.00	49.36
NVNT	ANT1	802.11ac(VHT40)	5190.00	52.15
NVNT	ANT1	802.11ac(VHT40)	5230.00	49.78
NVNT	ANT1	802.11ac(VHT80)	5210.00	98.96





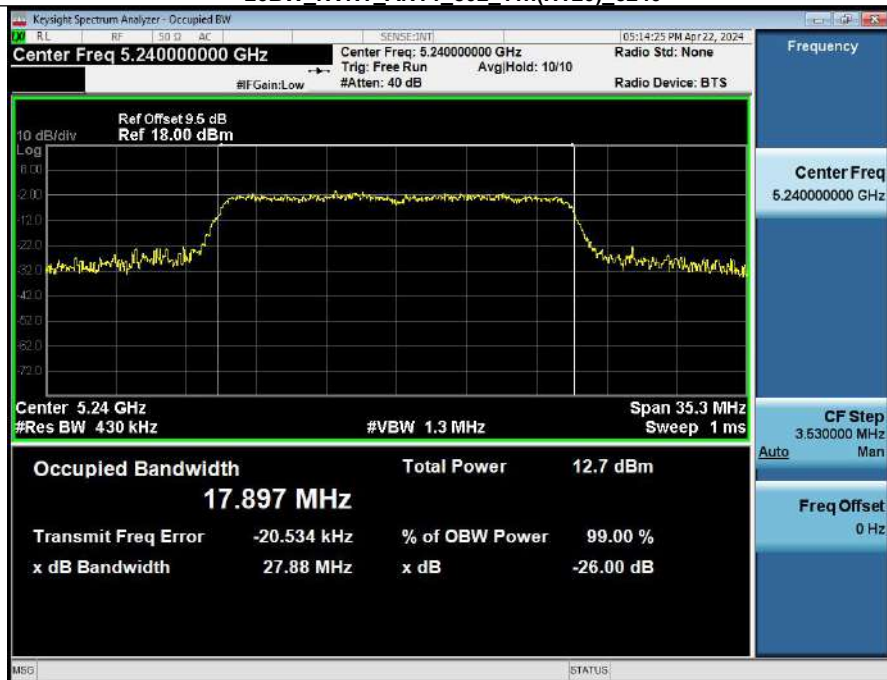
-26BW_NVNT_ANT1_802_11n(HT20)_5180



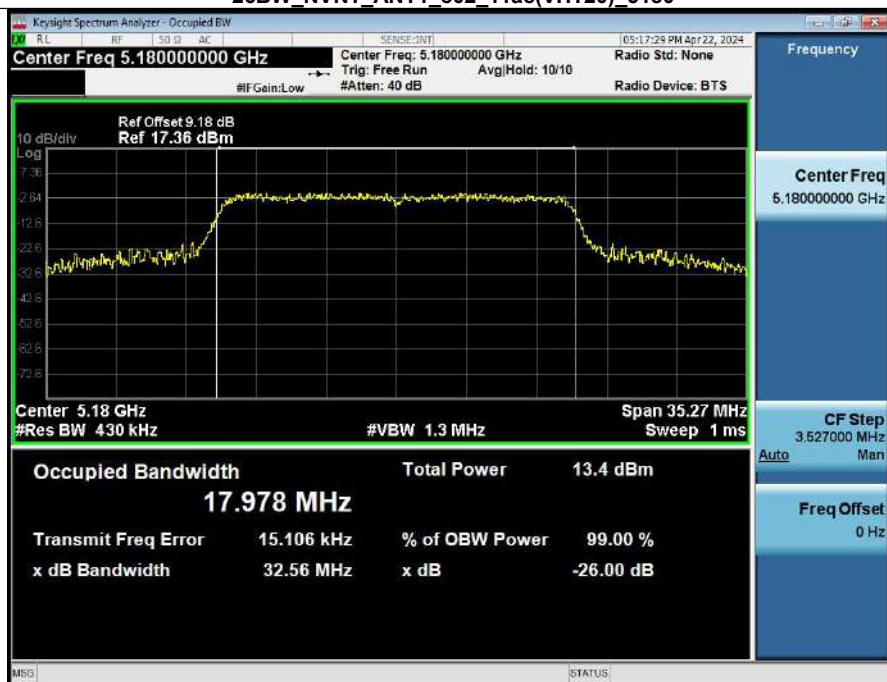
-26BW_NVNT_ANT1_802_11n(HT20)_5200



-26BW_NVNT_ANT1_802_11n(HT20)_5240



-26BW_NVNT_ANT1_802_11ac(VHT20)_5180



-26BW_NVNT_ANT1_802_11ac(VHT20)_5200



-26BW_NVNT_ANT1_802_11ac(VHT20)_5240



-26BW NVNT_ANT1_802_11n(HT40) 5190



-26BW NVNT_ANT1_802_11n(HT40) 5230



-26BW_NVNT_ANT1_802_11ac(VHT40)_5190



-26BW_NVNT_ANT1_802_11ac(VHT40)_5230

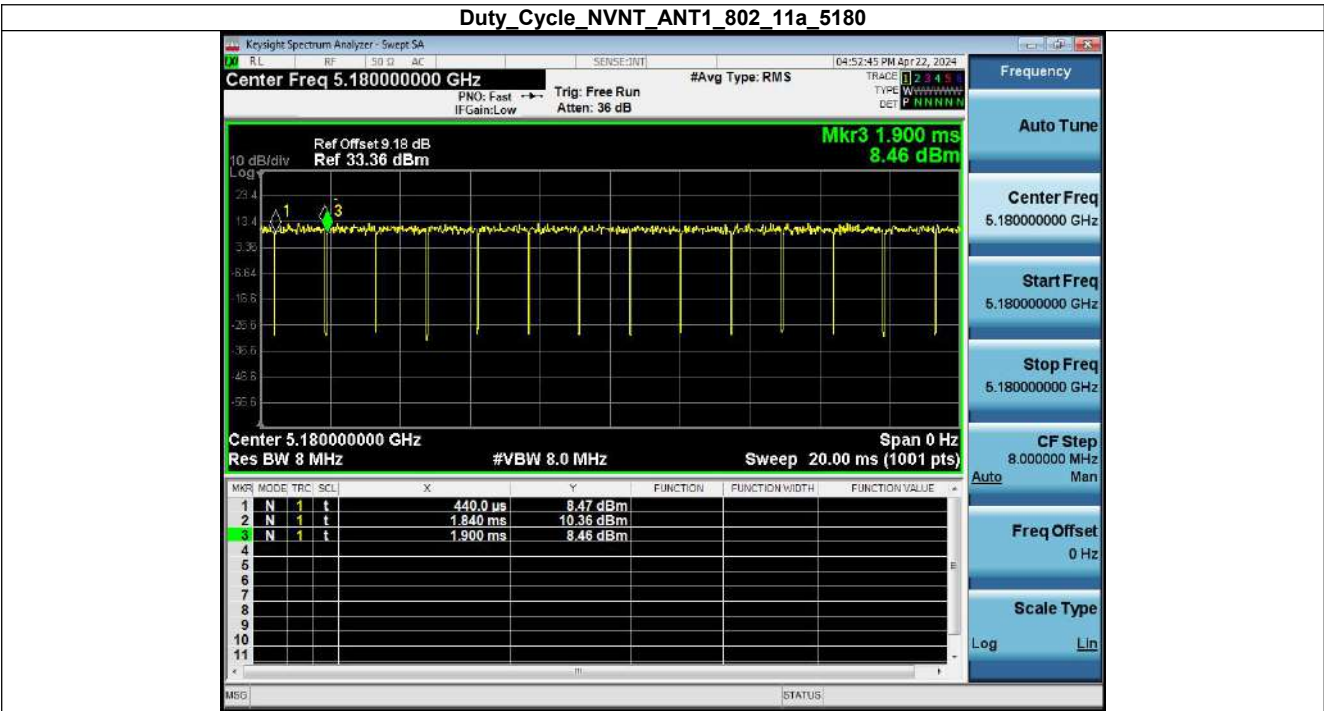


-26BW NVNT ANT1 802 11ac(VHT80) 5210

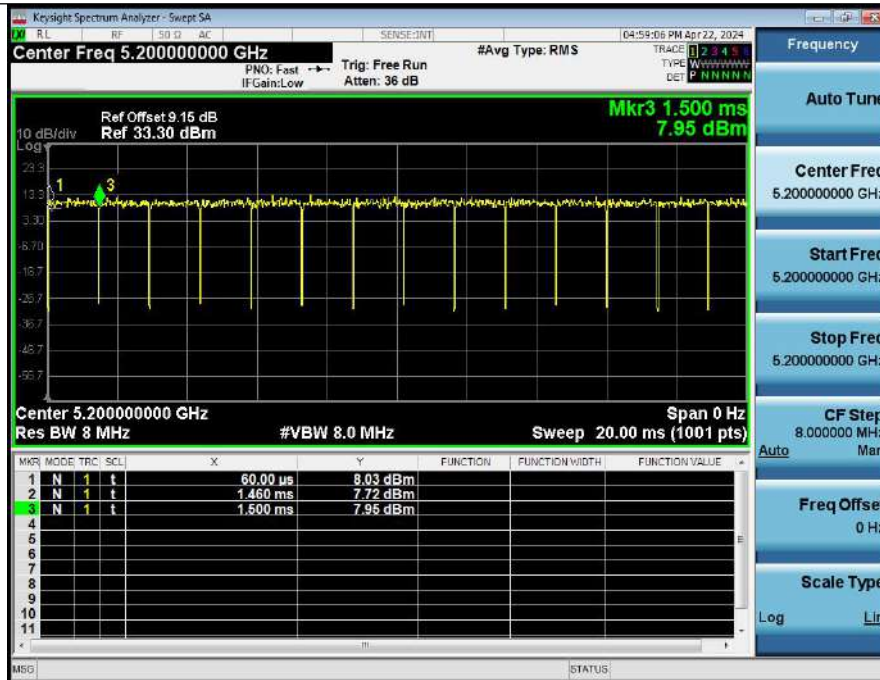


2. Duty Cycle

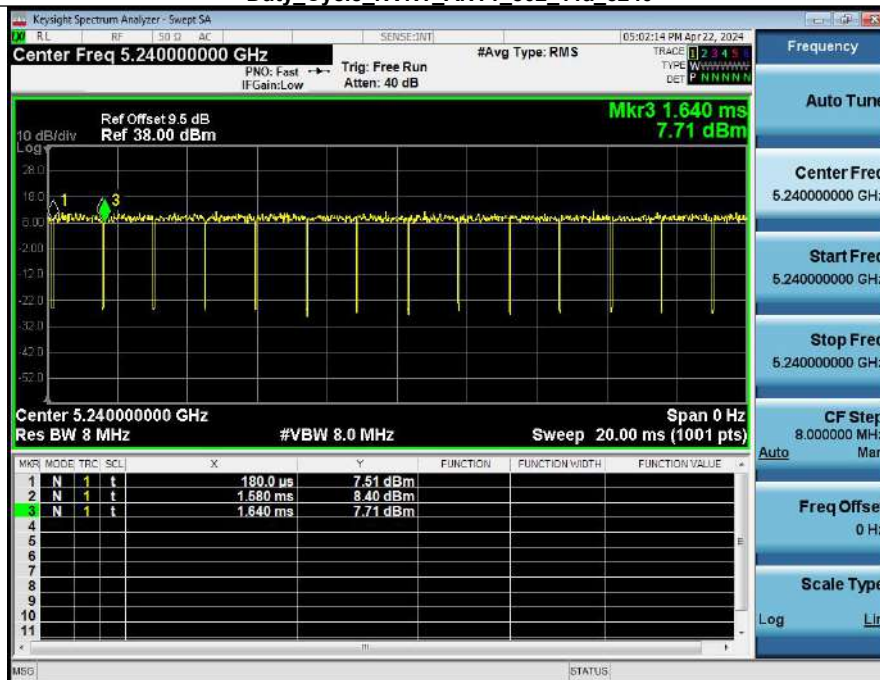
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	95.89	0.18
NVNT	ANT1	802.11a	5200.00	97.22	0.12
NVNT	ANT1	802.11a	5240.00	95.89	0.18
NVNT	ANT1	802.11n(HT20)	5180.00	95.16	0.22
NVNT	ANT1	802.11n(HT20)	5200.00	95.16	0.22
NVNT	ANT1	802.11n(HT20)	5240.00	95.16	0.22
NVNT	ANT1	802.11ac(VHT20)	5180.00	96.77	0.14
NVNT	ANT1	802.11ac(VHT20)	5200.00	96.77	0.14
NVNT	ANT1	802.11ac(VHT20)	5240.00	96.77	0.14
NVNT	ANT1	802.11n(HT40)	5190.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	5230.00	93.75	0.28
NVNT	ANT1	802.11ac(VHT40)	5190.00	90.91	0.41
NVNT	ANT1	802.11ac(VHT40)	5230.00	90.91	0.41
NVNT	ANT1	802.11ac(VHT80)	5210.00	82.35	0.84



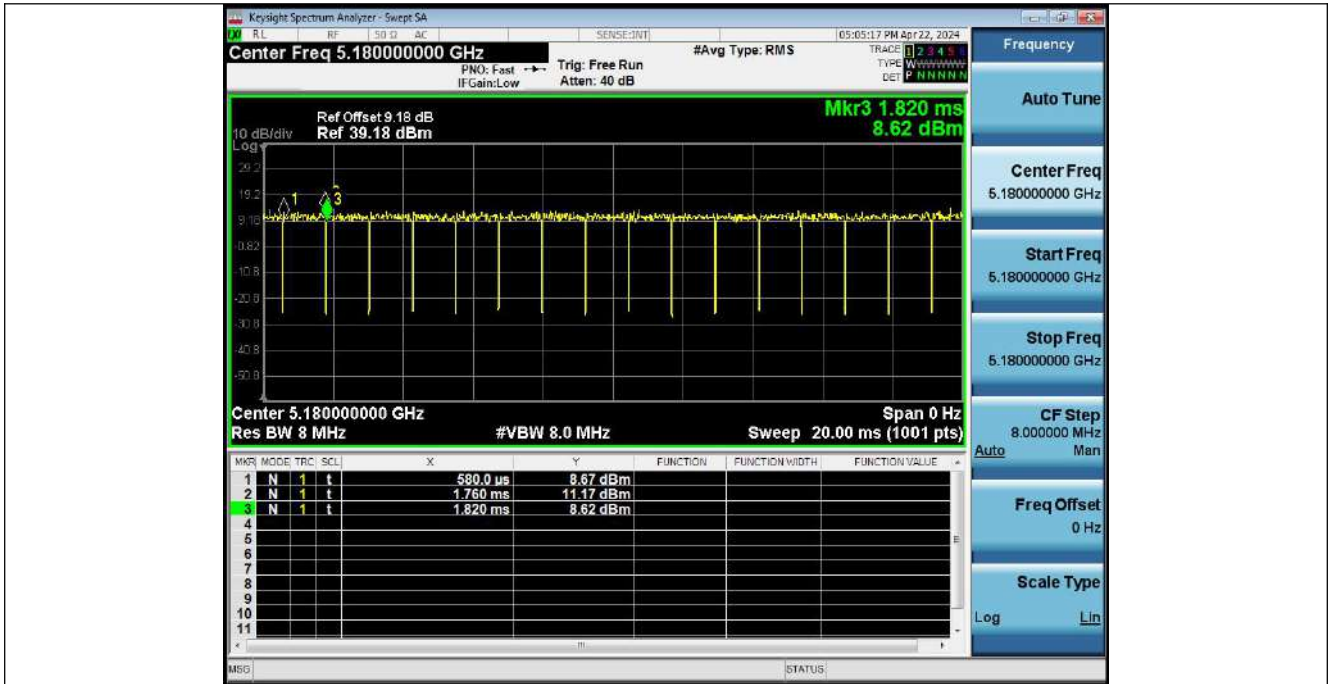
Duty Cycle_NVNT_ANT1_802_11a_5200



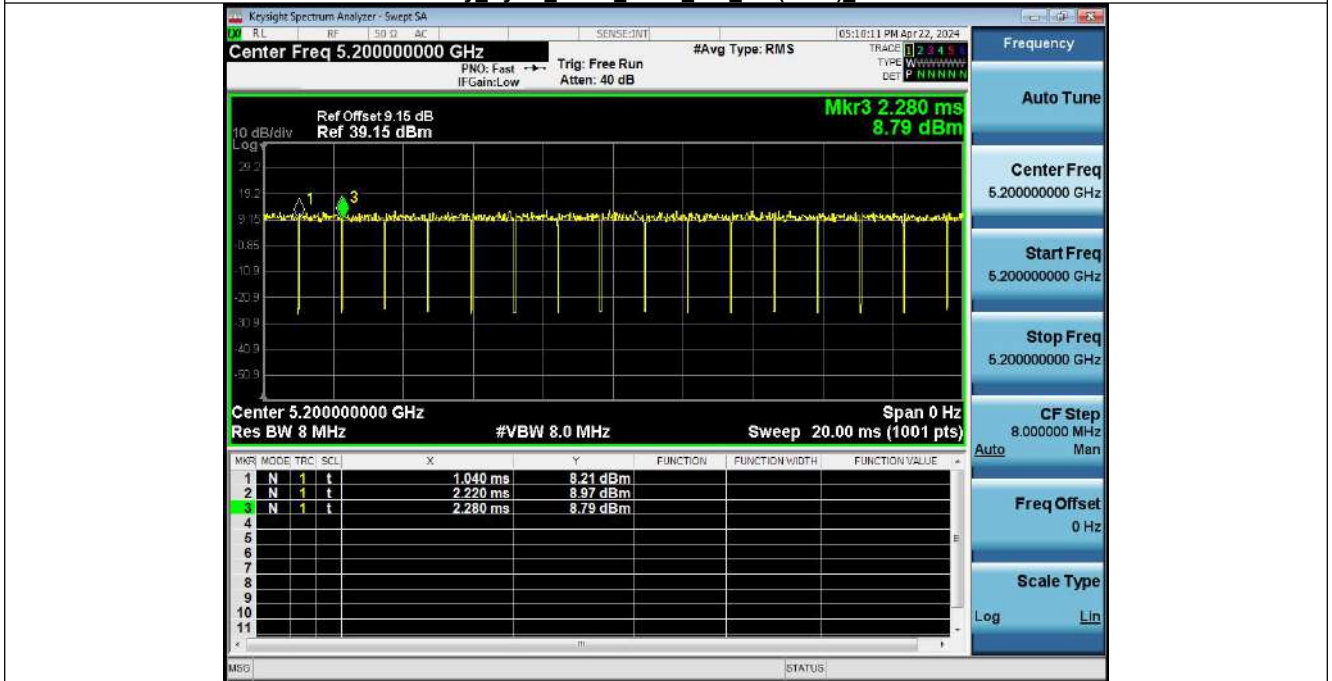
Duty_Cycle_NVNT_ANT1_802_11a_5240



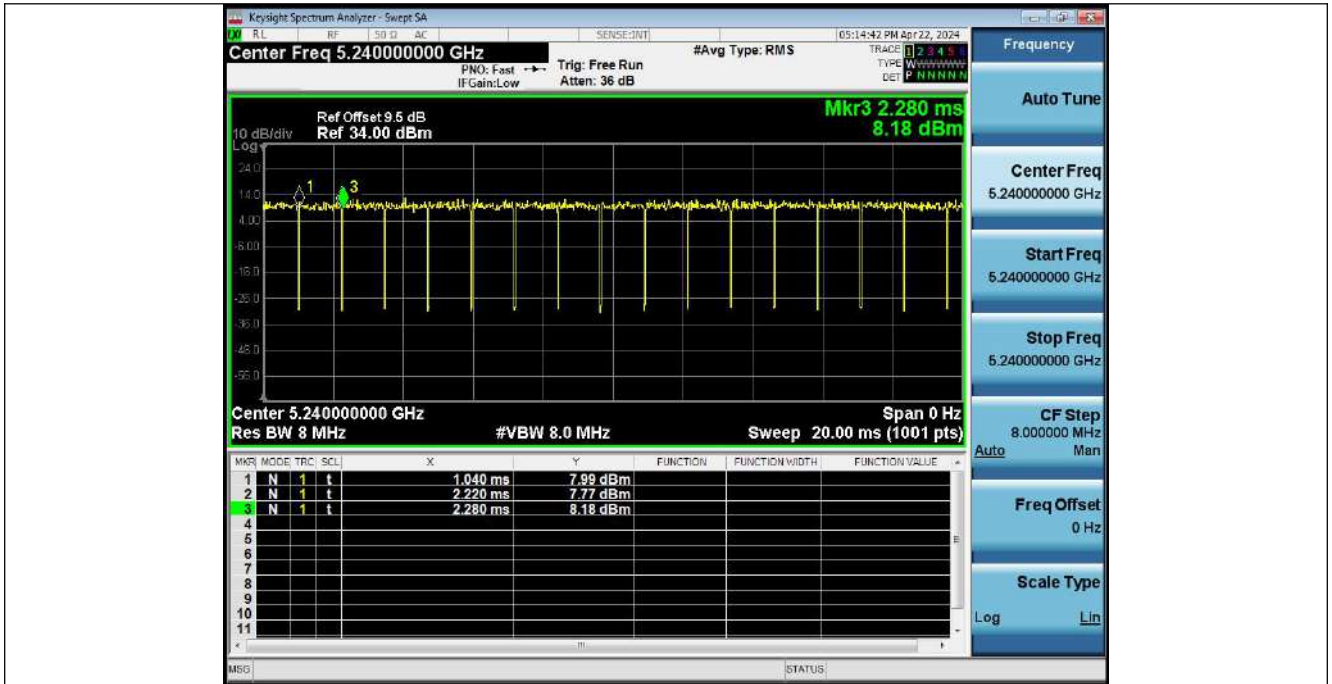
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5180



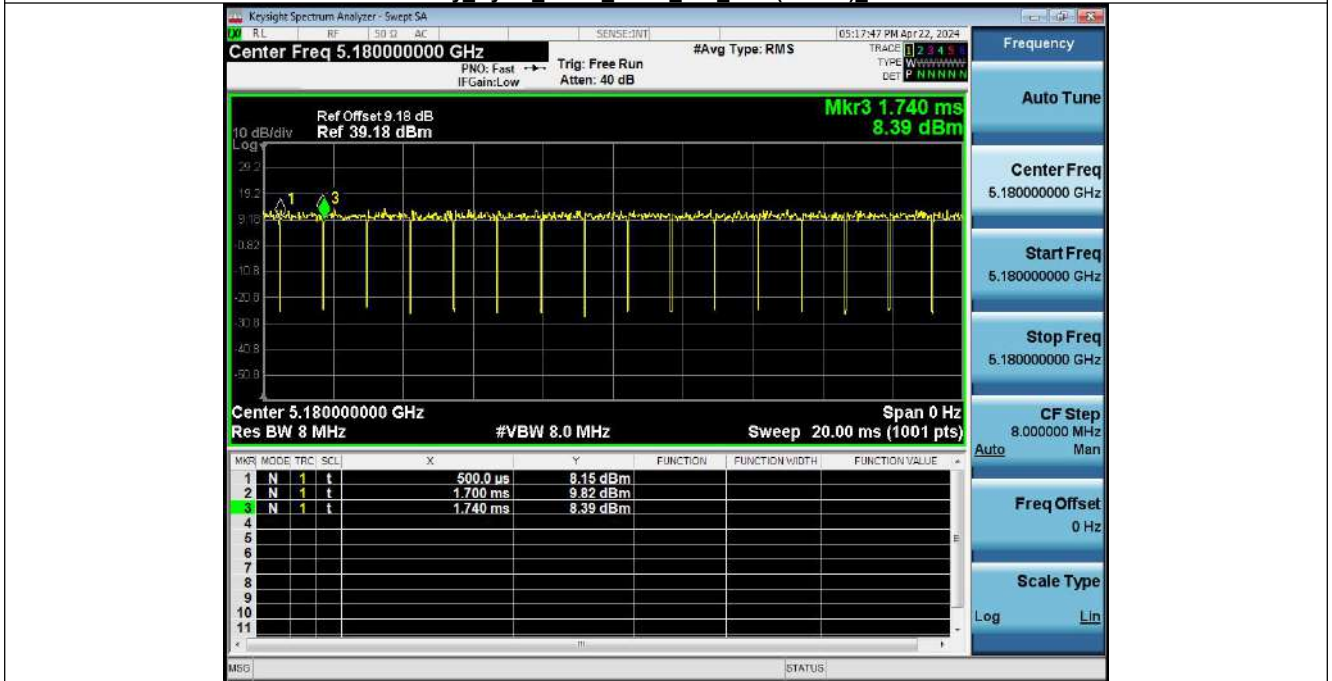
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5200



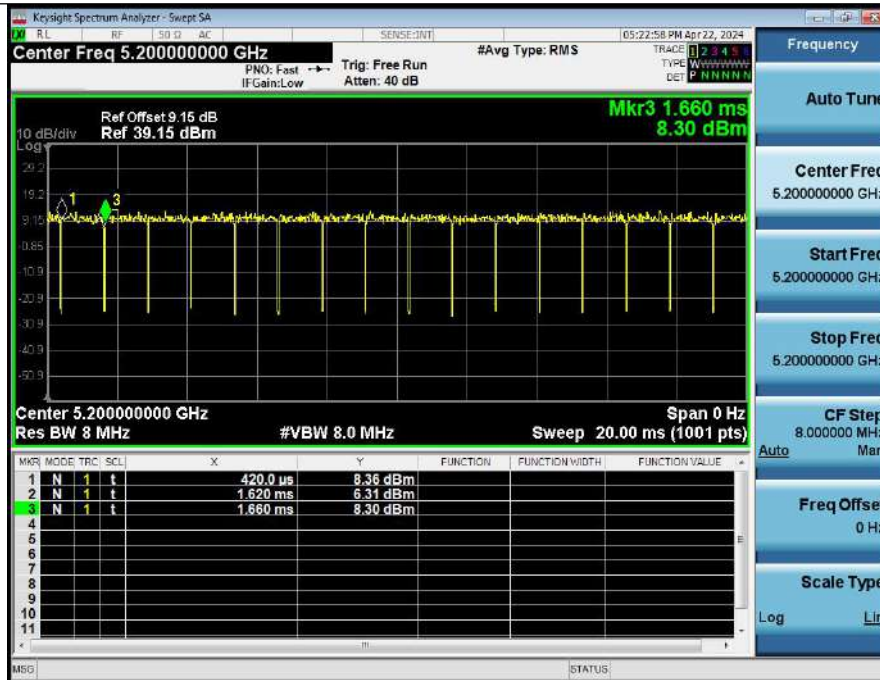
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5240



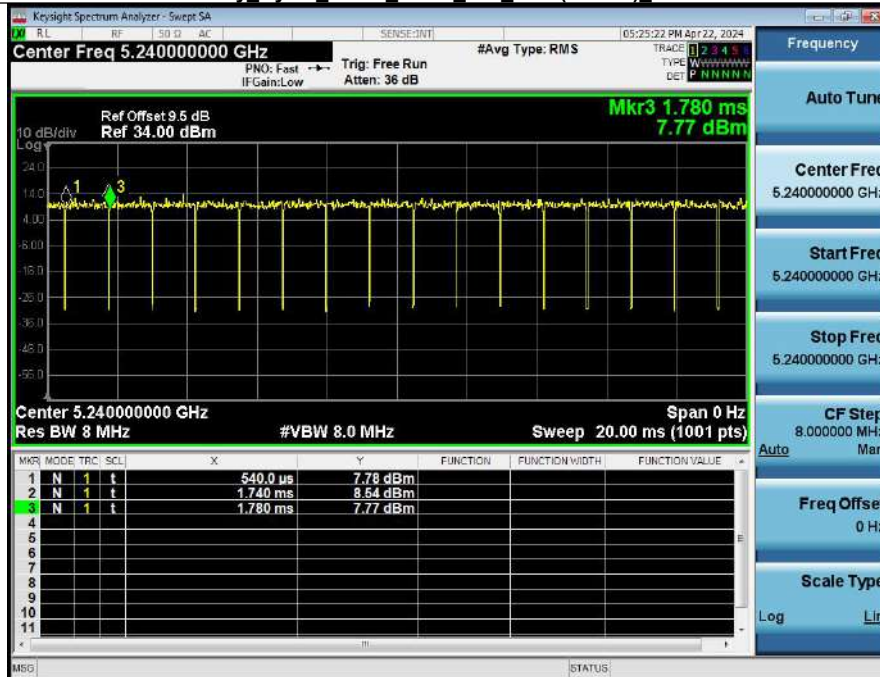
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5180



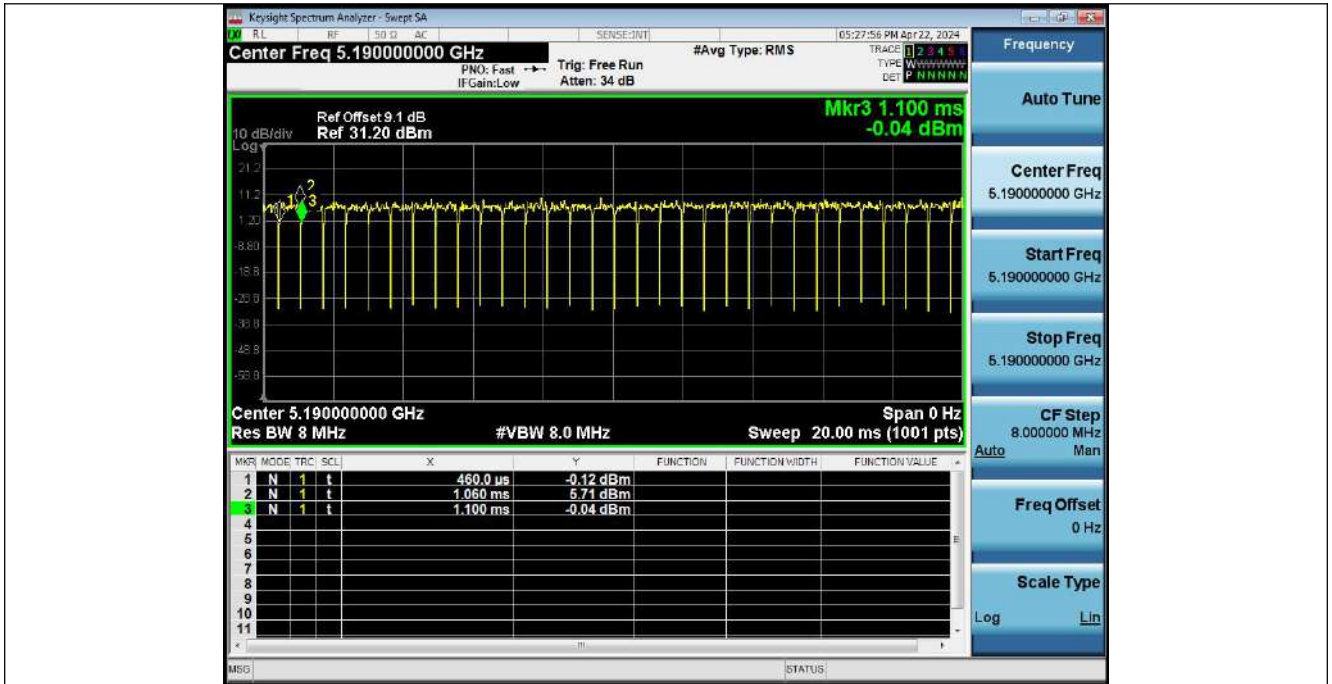
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5200



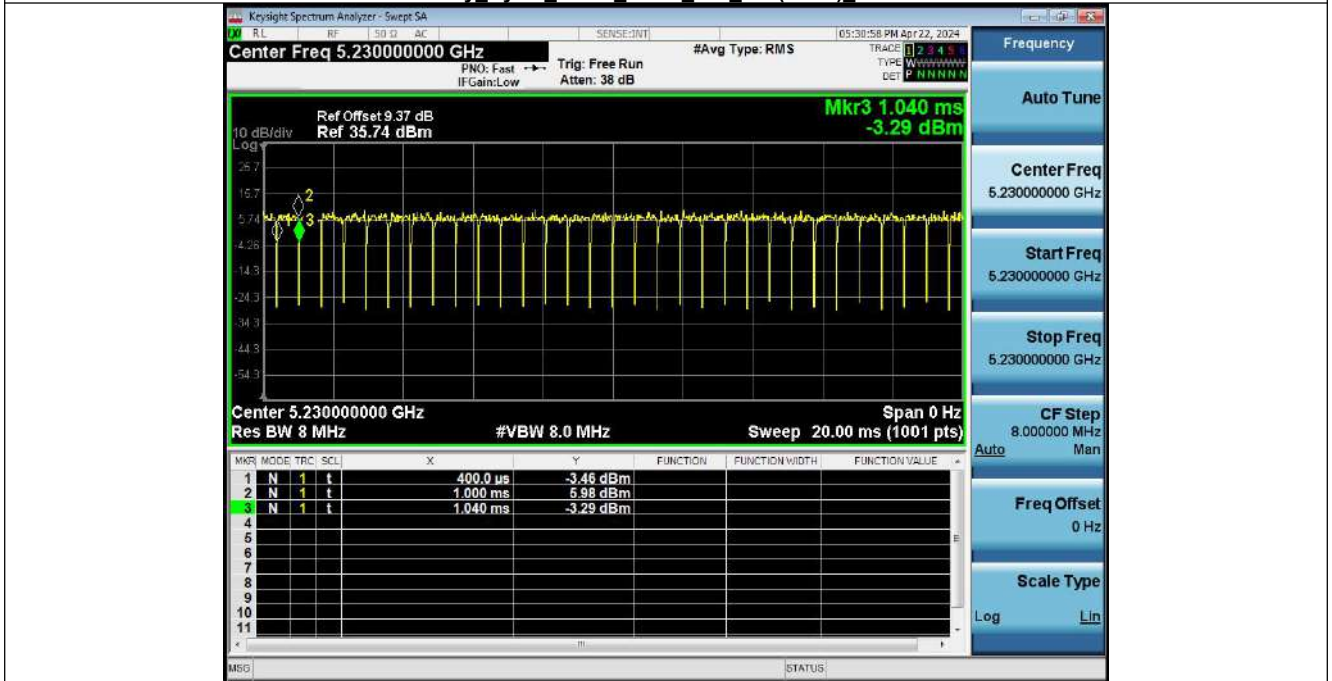
Duty_Cycle_NVNT_ANT1_802_11ac(VHT20)_5240



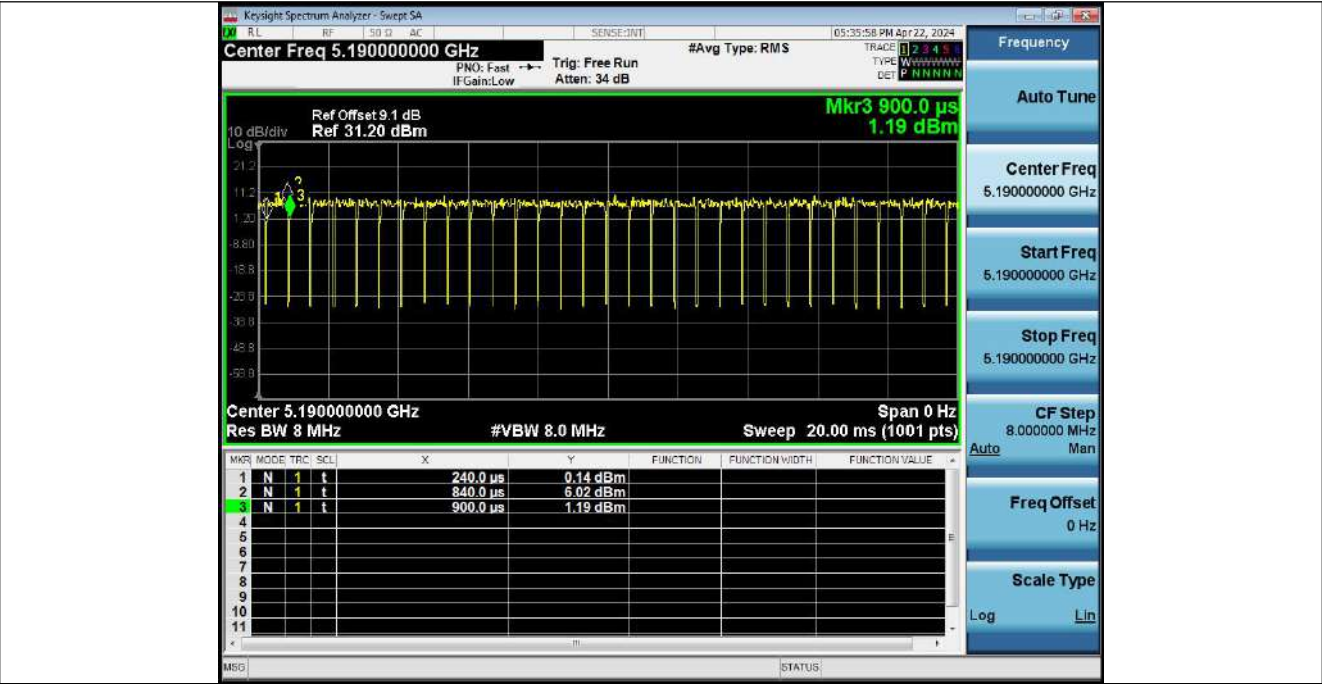
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5190



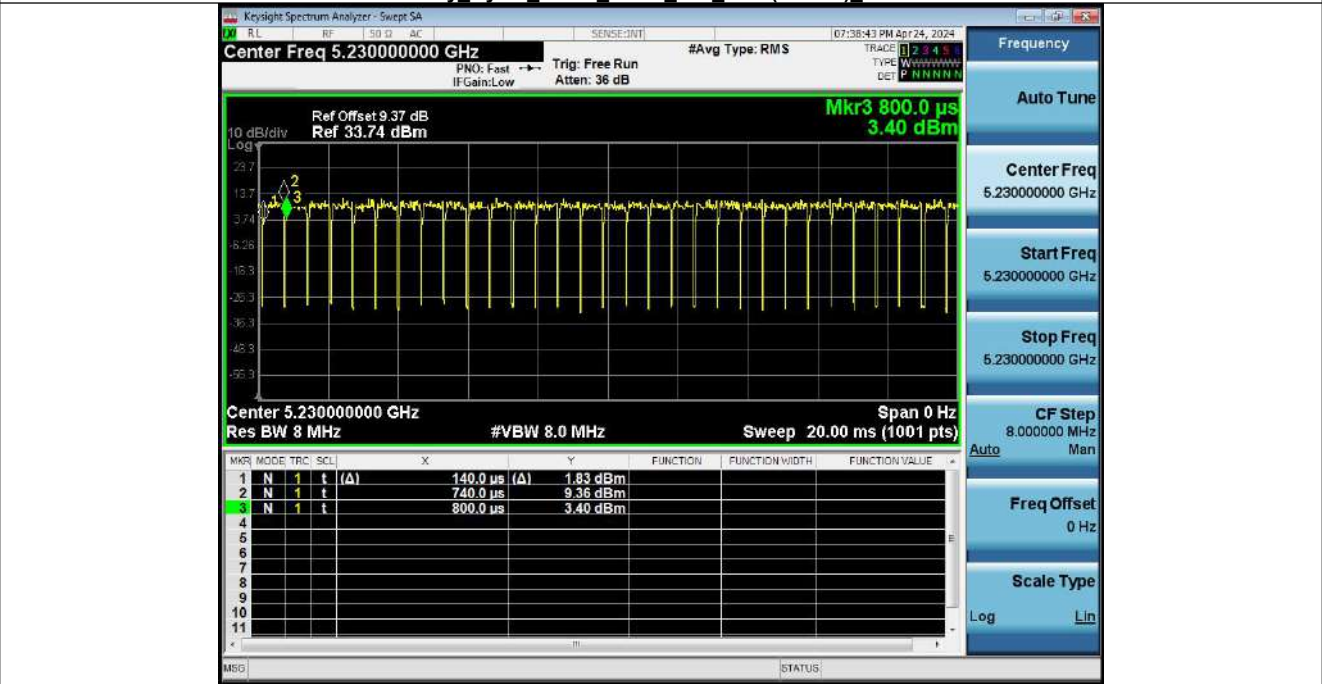
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5230



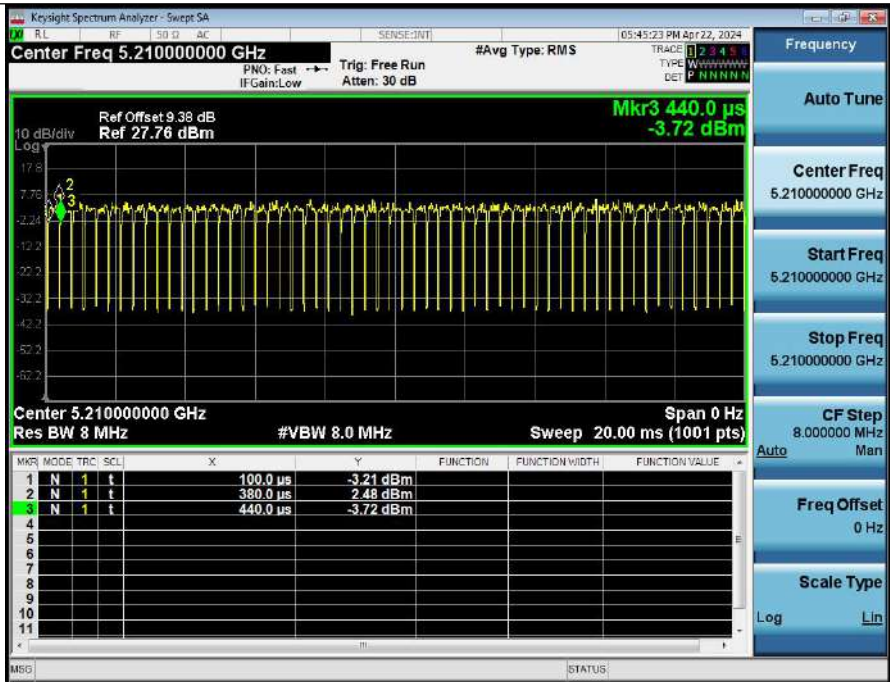
Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5190



Duty_Cycle_NVNT_ANT1_802_11ac(VHT40)_5230



Duty_Cycle_NVNT_ANT1_802_11ac(VHT80)_5210



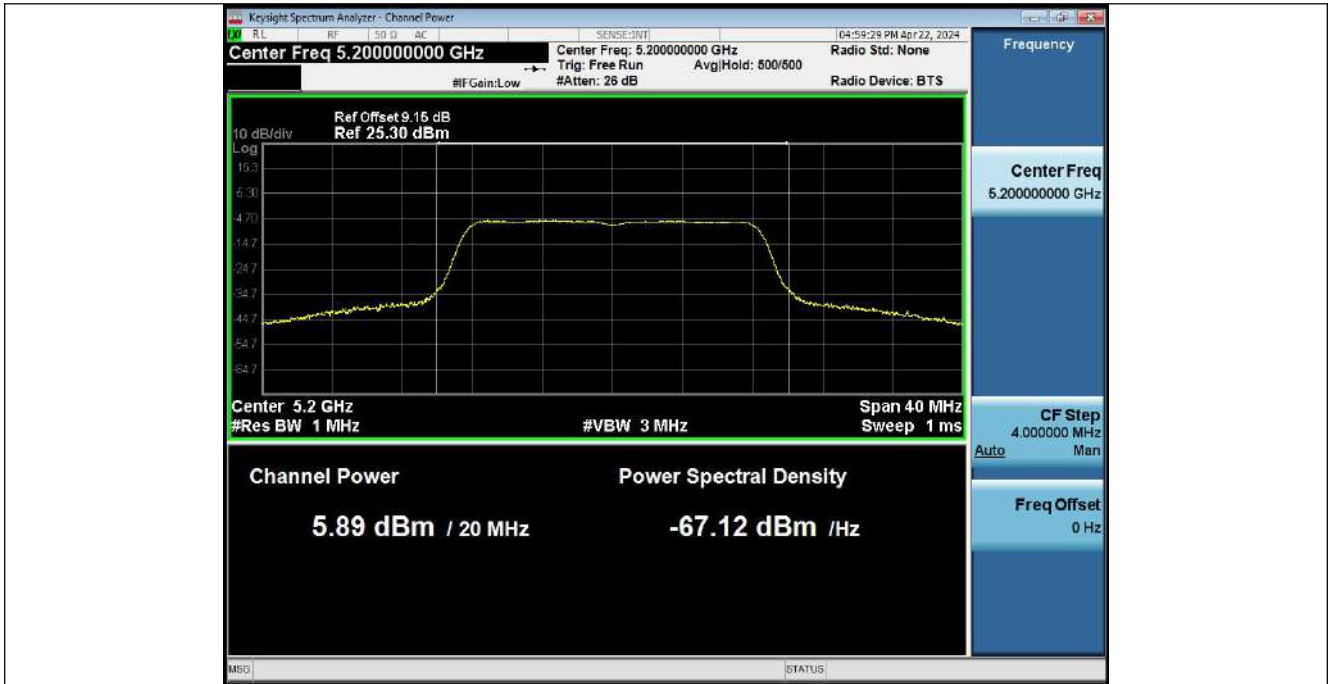
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5.93	0.18	6.11	24	Pass
NVNT	ANT1	802.11a	5200.00	5.89	0.12	6.01	24	Pass
NVNT	ANT1	802.11a	5240.00	5.55	0.18	5.73	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	6.59	0.22	6.81	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	6.13	0.22	6.35	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5.79	0.22	6.01	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	6.58	0.14	6.72	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	6.13	0.14	6.27	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5.74	0.14	5.88	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5.55	0.28	5.83	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5.06	0.28	5.34	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5.63	0.41	6.04	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5.06	0.00	5.06	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	4.95	0.84	5.79	24	Pass

Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5180_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5200_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5240_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5180_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5200_20M



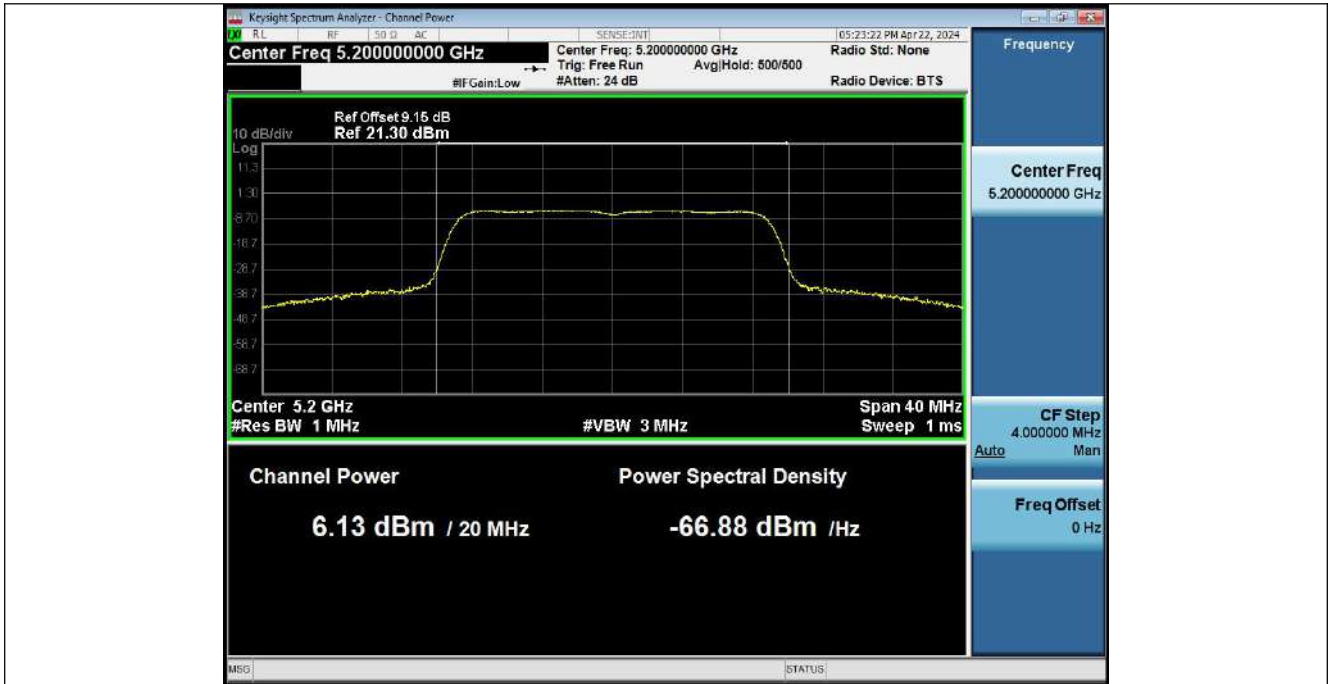
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5240_20M



Maximum Conducted Output Power_NVNT_ANT1_802_11ac(VHT20)_5180_20M



Maximum Conducted Output Power_NVNT_ANT1_802_11ac(VHT20)_5200_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT20)_5240_20M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5190_40M



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5230_40M



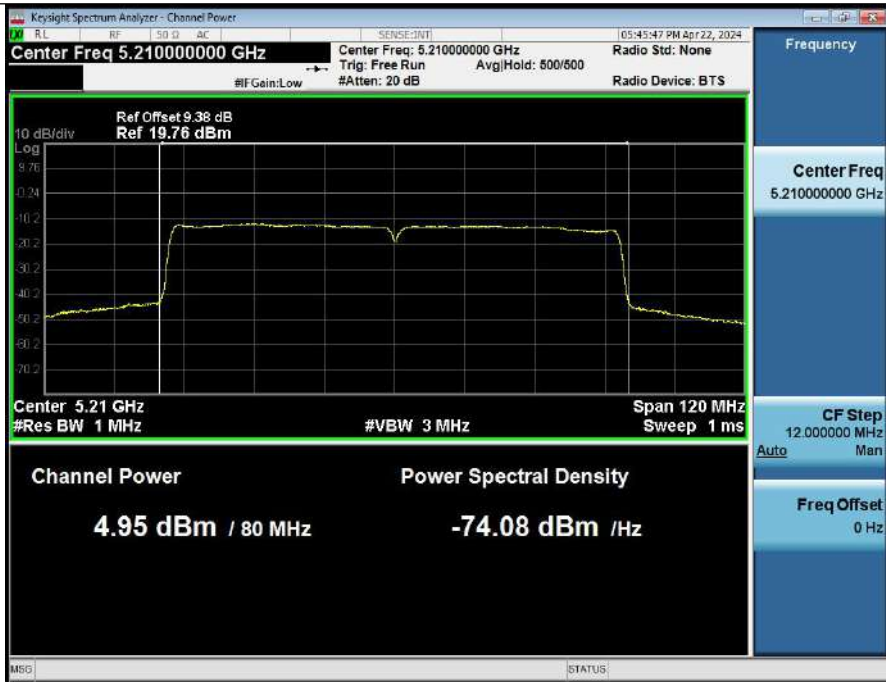
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11ac(VHT40)_5190_40M



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	-5.17	0.18	-5.00	11	Pass
NVNT	ANT1	802.11a	5200.00	-5.43	0.12	-5.31	11	Pass
NVNT	ANT1	802.11a	5240.00	-5.80	0.18	-5.62	11	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	-4.63	0.22	-4.41	11	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	-5.33	0.22	-5.11	11	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	-5.56	0.22	-5.34	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	-4.86	0.14	-4.72	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	-5.25	0.14	-5.11	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	-6.15	0.14	-6.01	11	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	-8.60	0.28	-8.32	11	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	-9.09	0.28	-8.81	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	-8.81	0.41	-8.40	11	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	-9.17	0.00	-9.17	11	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	-12.14	0.84	-11.30	11	Pass



Power_Spectral_Density_NVNT_ANT1_802_11a_5200



Power_Spectral_Density_NVNT_ANT1_802_11a_5240



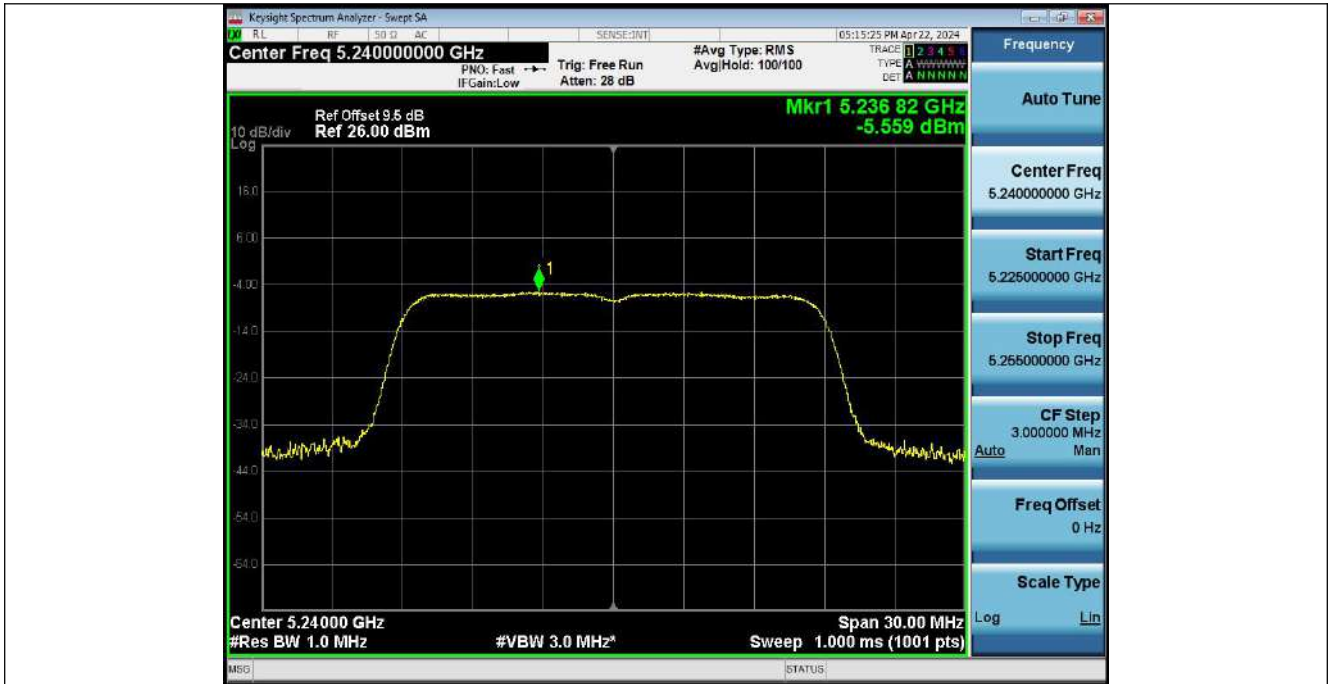
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5200



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5240



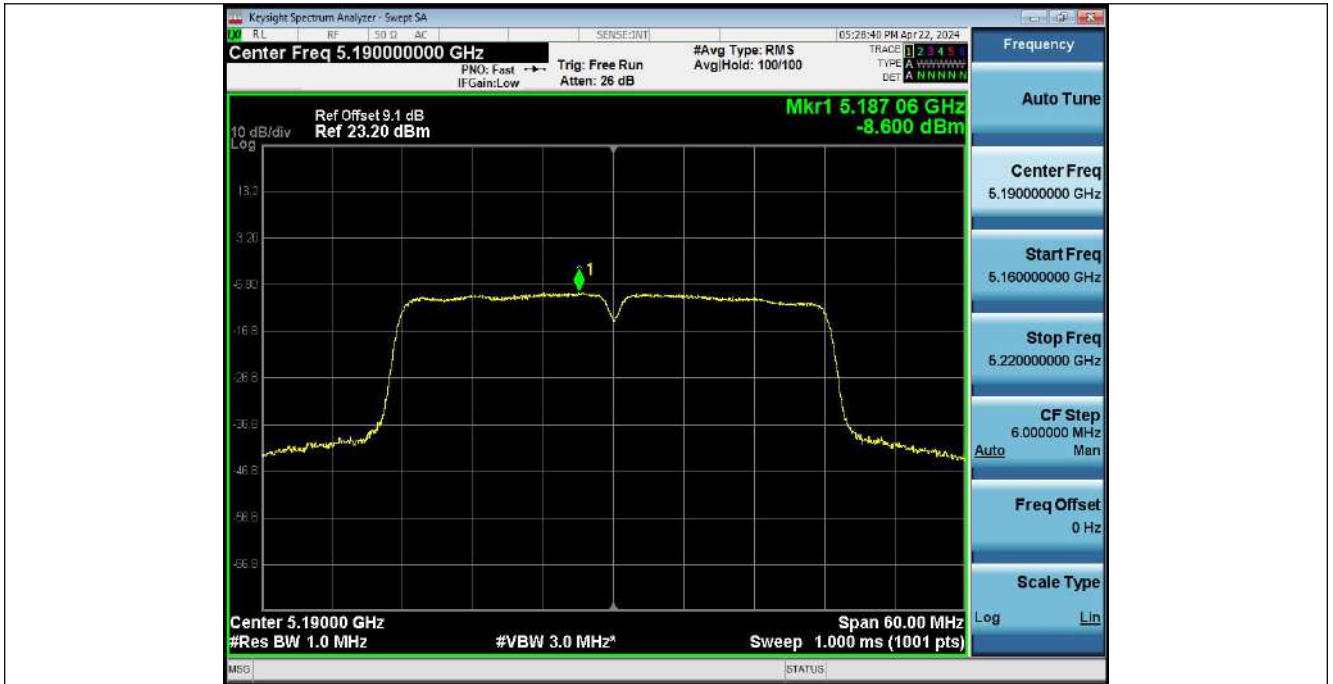
Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5180



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5200



Power Spectral Density NVNT_ANT1_802_11n(HT40)_5190



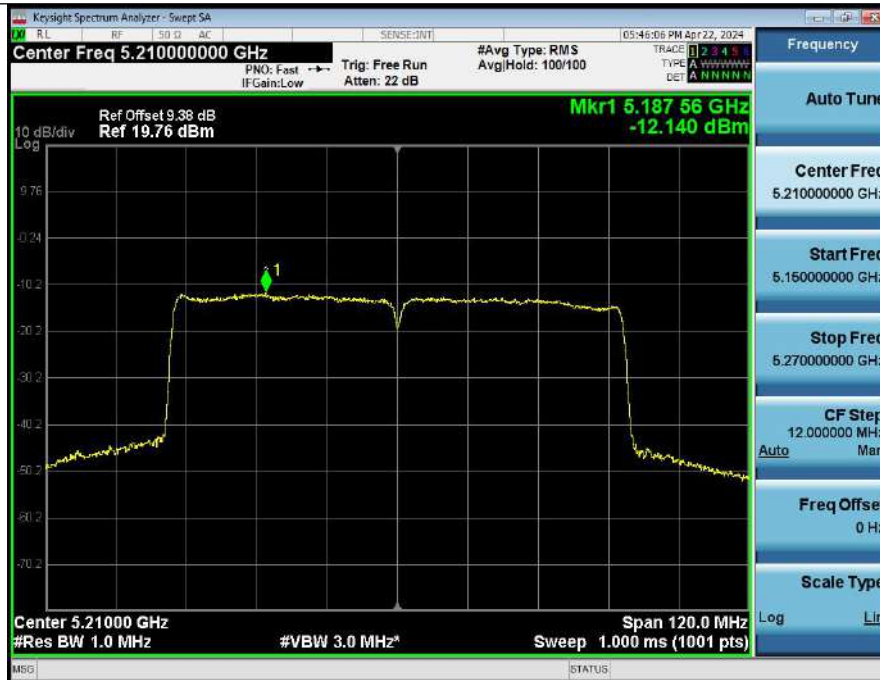
Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210

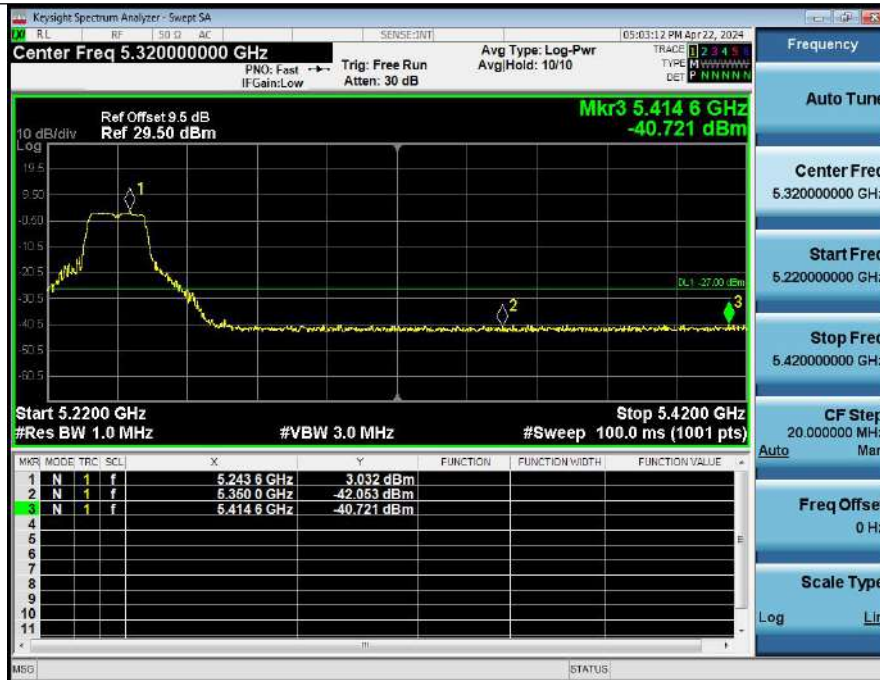


5. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	5057.20	-39.35	-27	Pass
NVNT	ANT1	802.11a	5240.00	5414.60	-40.72	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5149.80	-37.95	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5415.20	-40.43	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5149.60	-36.22	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5409.00	-40.43	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5149.31	-30.51	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5412.02	-40.45	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5149.52	-29.04	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5381.78	-40.95	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5144.06	-32.91	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5390.18	-40.88	-27	Pass

Reamrk: Antenna gain is covered in the test.





Bandedge_NVNT_ANT1_802_11n(HT20)_5180



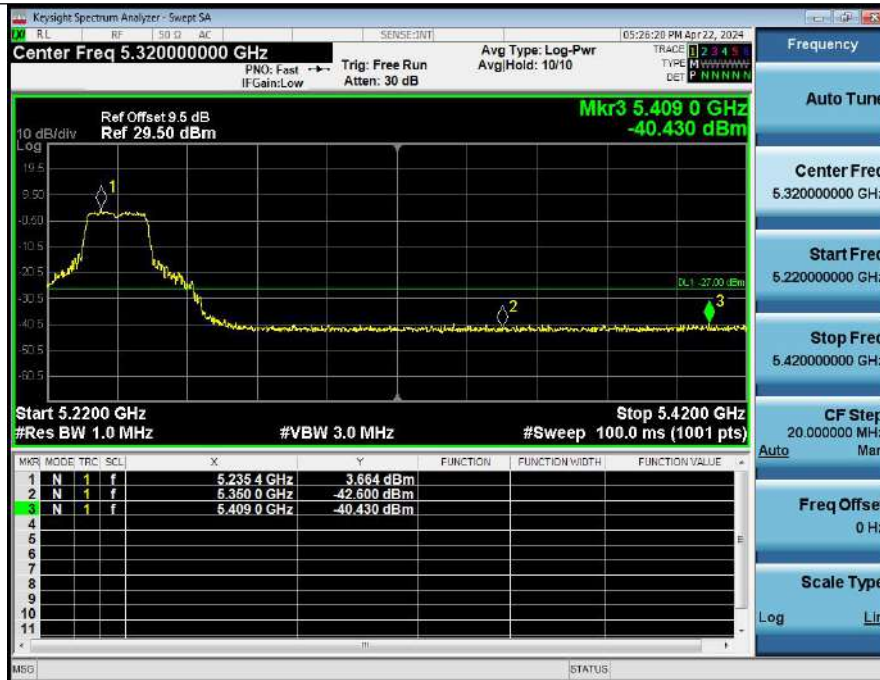
Bandedge_NVNT_ANT1_802_11n(HT20)_5240



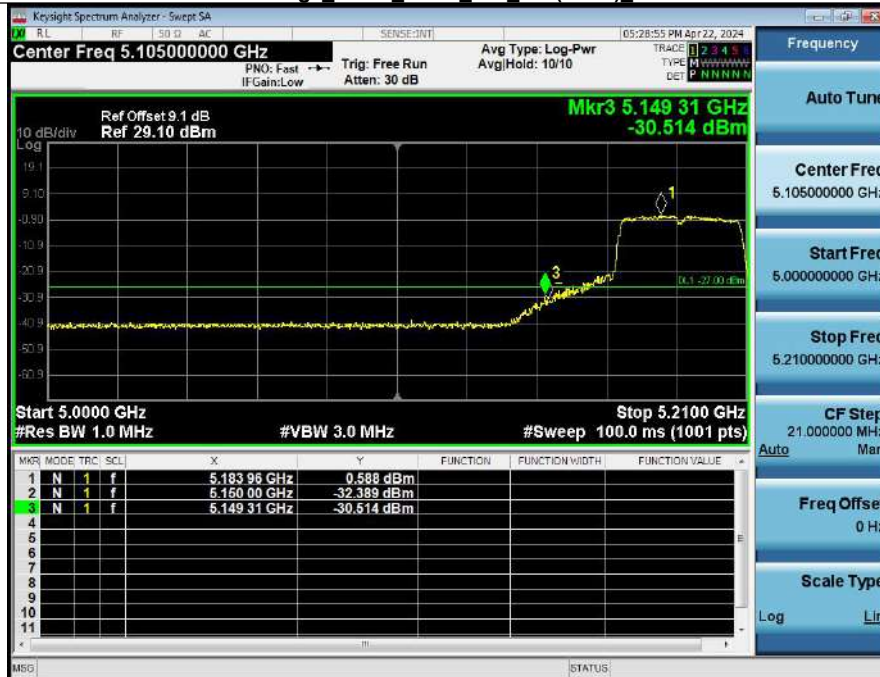
Bandedge_NVNT_ANT1_802_11ac(VHT20)_5180



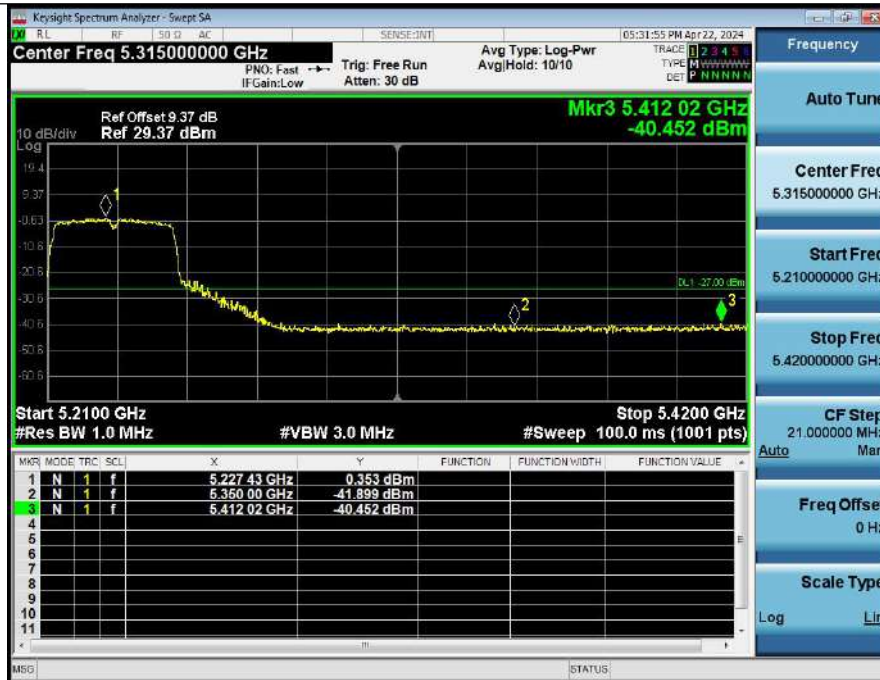
Bandedge_NVNT_ANT1_802_11ac(VHT20)_5240



Bandedge_NVNT_ANT1_802_11n(HT40)_5190



Bandedge_NVNT_ANT1_802_11n(HT40)_5230



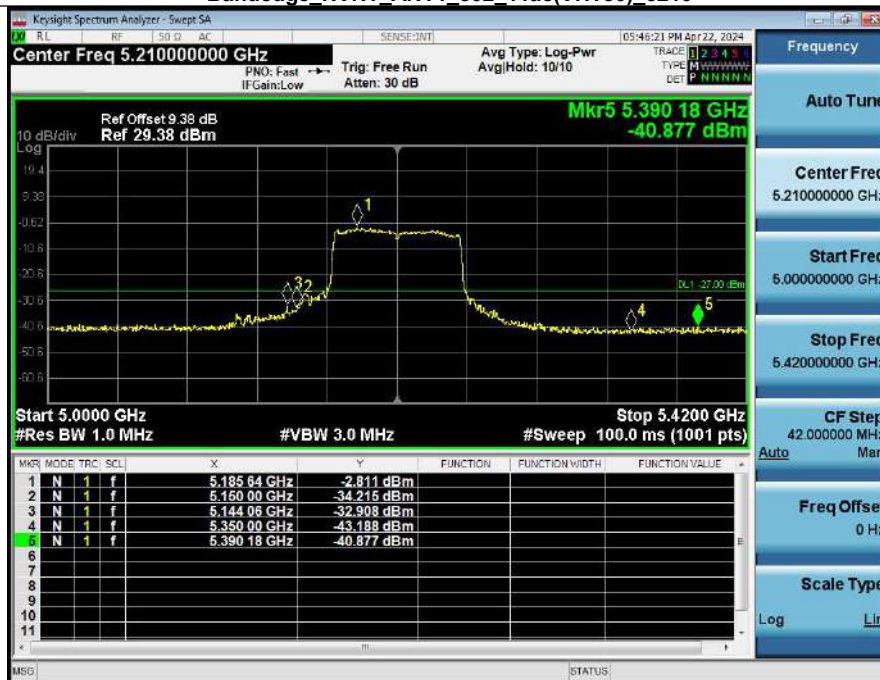
Bandedge_NVNT_ANT1_802_11ac(VHT40)_5190



Bandedge_NVNT_ANT1_802_11ac(VHT40)_5230



Bandedge_NVNT_ANT1_802_11ac(VHT80)_5210

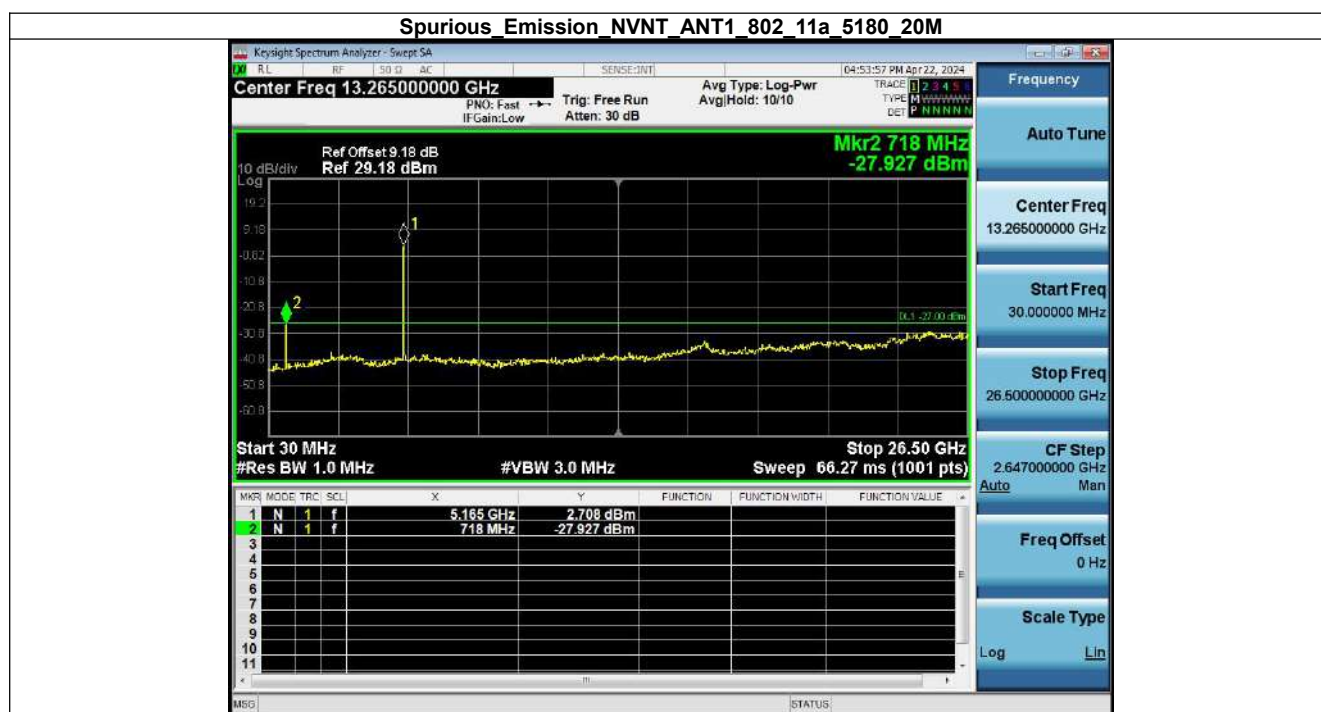


6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	718.22	-27.93	-27	Pass
NVNT	ANT1	802.11a	5200.00	24938.27	-29.28	-27	Pass
NVNT	ANT1	802.11a	5240.00	24938.27	-29.16	-27	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	25467.67	-29.94	-27	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	25123.56	-30.17	-27	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	25017.68	-29.50	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	25811.78	-29.51	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	25785.31	-29.96	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	24991.21	-30.13	-27	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	25652.96	-30.24	-27	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	2597.59	-27.99	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	2465.24	-28.07	-27	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	25044.15	-30.00	-27	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	25732.37	-28.85	-27	Pass

Reamrk: Antenna gain is covered in the test

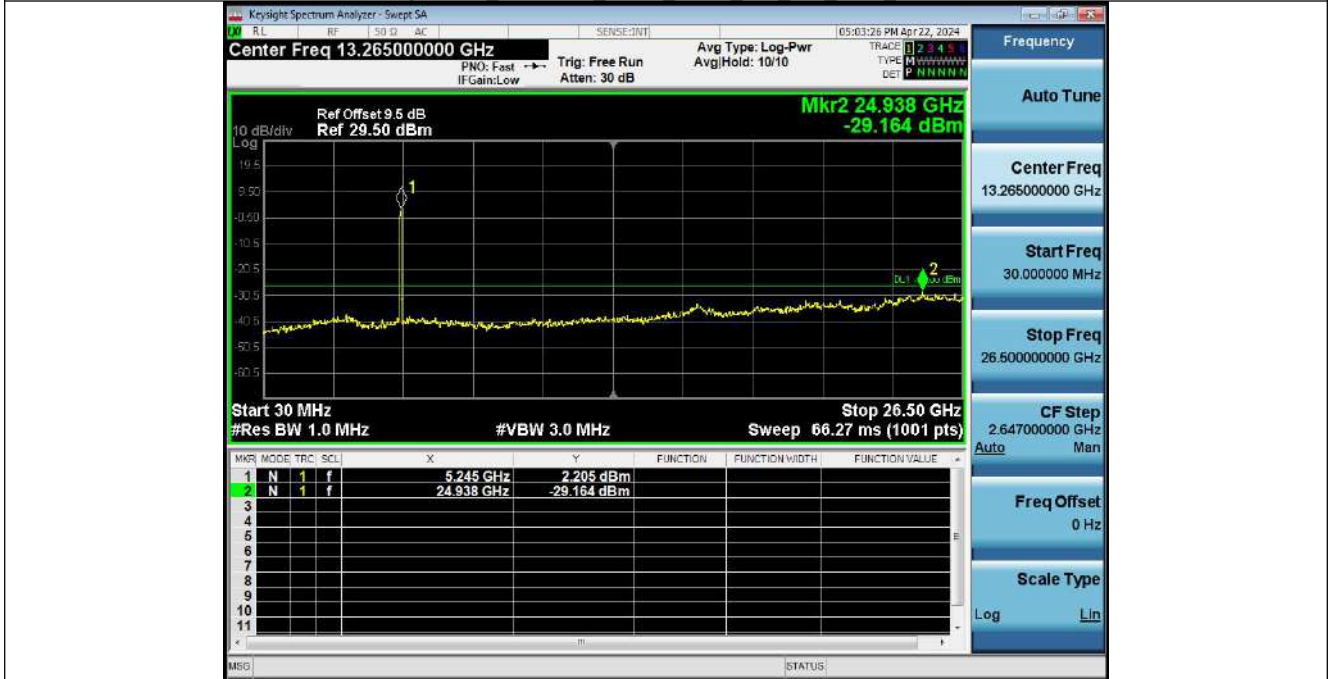
Reamrk: Antenna gain is covered in the test.



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



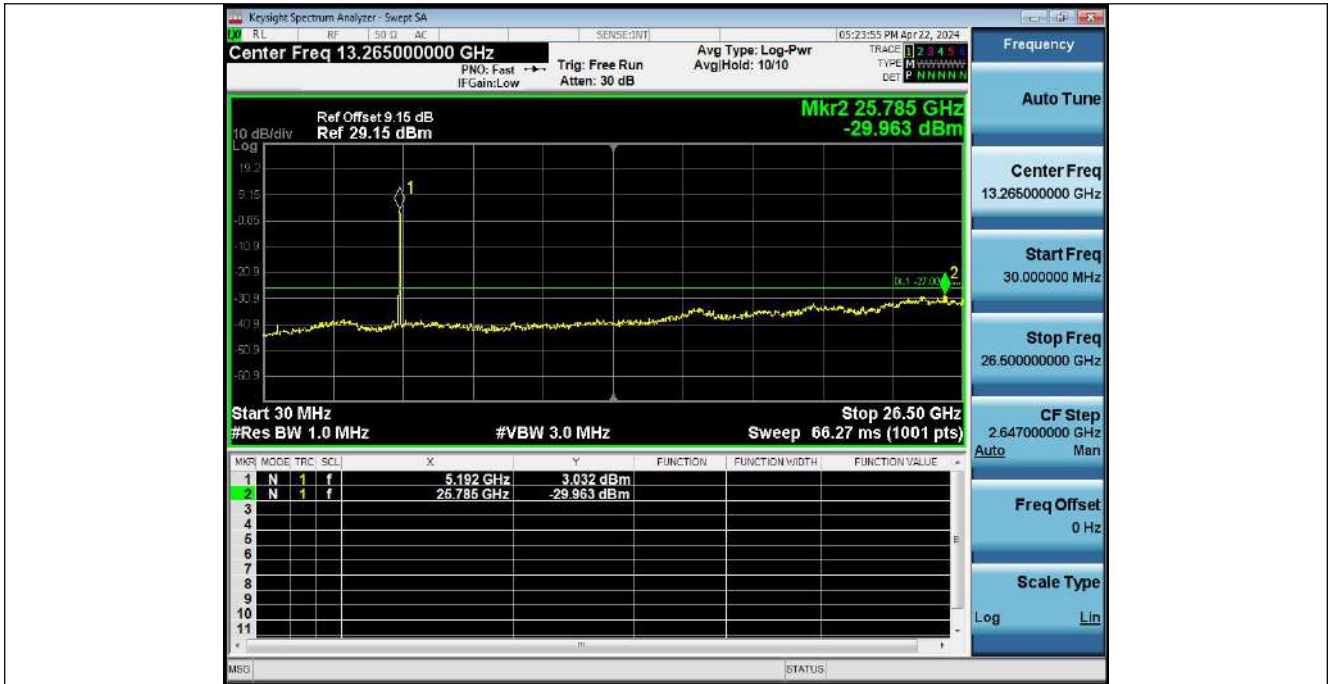
Spurious Emission_NVNT_ANT1_802_11n(HT20)_5240_20M



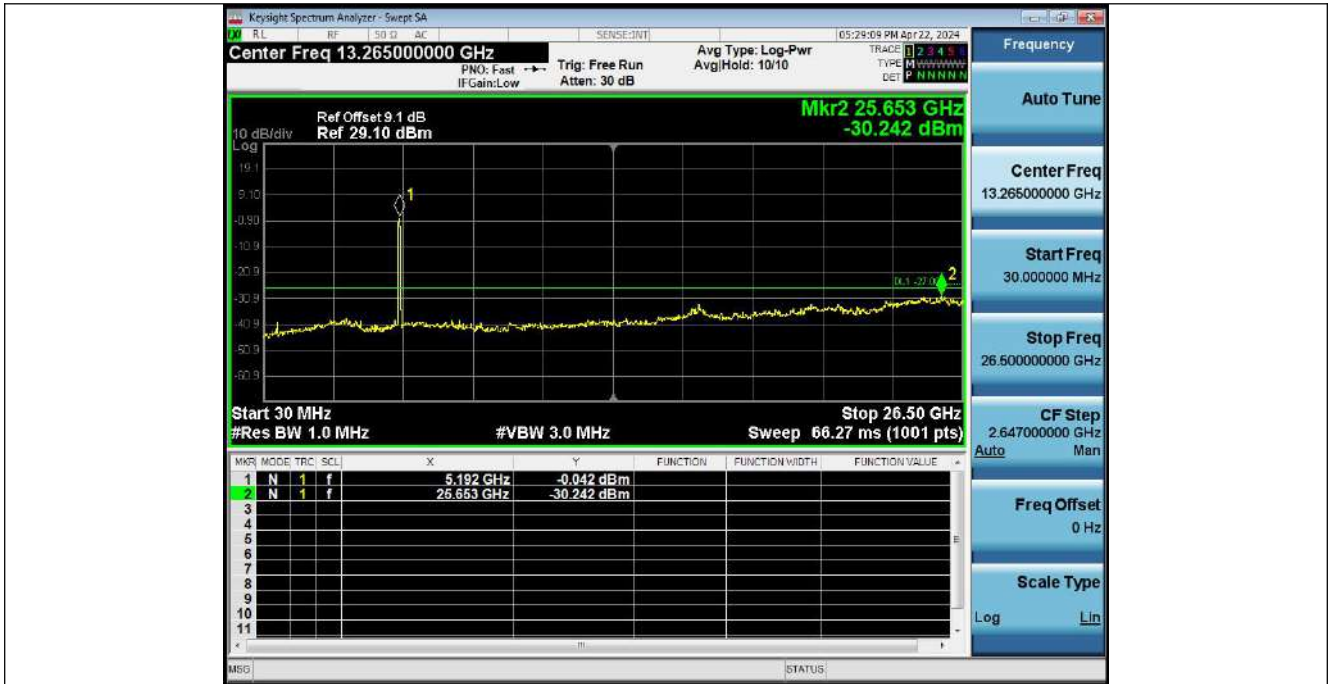
Spurious Emission NVNT ANT1_802_11ac(VHT20) 5180_20M



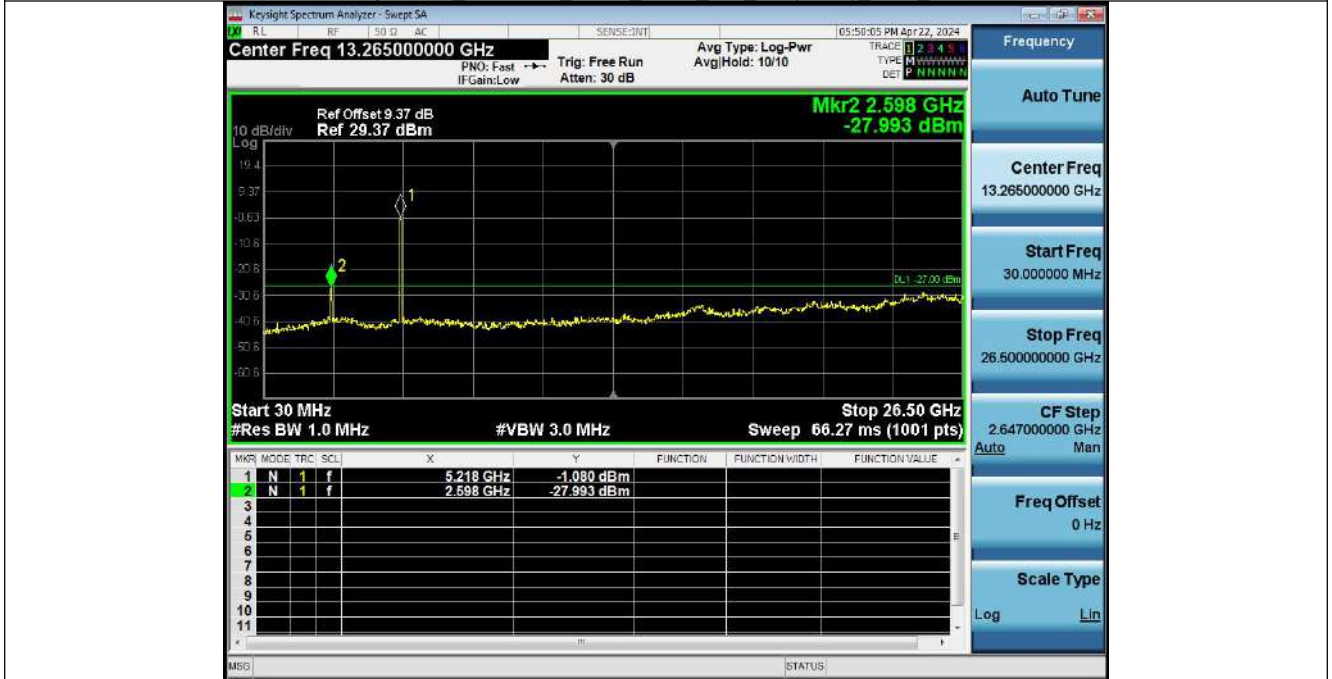
Spurious Emission NVNT ANT1_802_11ac(VHT20) 5200_20M



Spurious Emission NVNT_ANT1_802_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(VHT80) 5210 80M



7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5180.00	5180.030	5171.336	5188.724	5150~5250	Pass
NVNT	ANT1	802.11a	5200.00	5199.984	5191.284	5208.684	5150~5250	Pass
NVNT	ANT1	802.11a	5240.00	5240.014	5231.352	5248.676	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	5180.032	5170.852	5189.212	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	5200.032	5190.868	5209.196	5150~5250	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	5240.004	5230.876	5249.132	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	5180.032	5170.844	5189.220	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	5200.046	5190.856	5209.236	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	5240.016	5230.888	5249.144	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	5190.040	5171.752	5208.328	5150~5250	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	5230.056	5211.816	5248.296	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	5190.060	5171.792	5208.328	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	5230.048	5211.800	5248.296	5150~5250	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	5210.036	5172.044	5248.028	5150~5250	Pass