

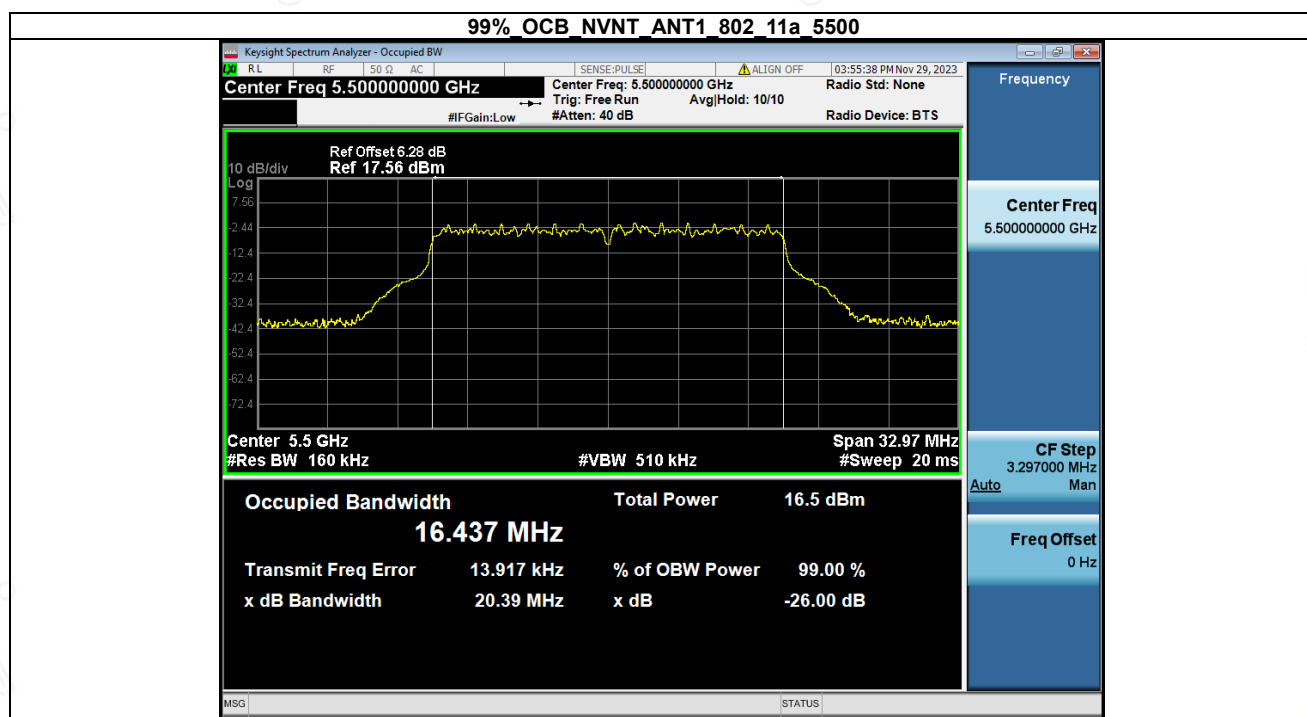
Appendix

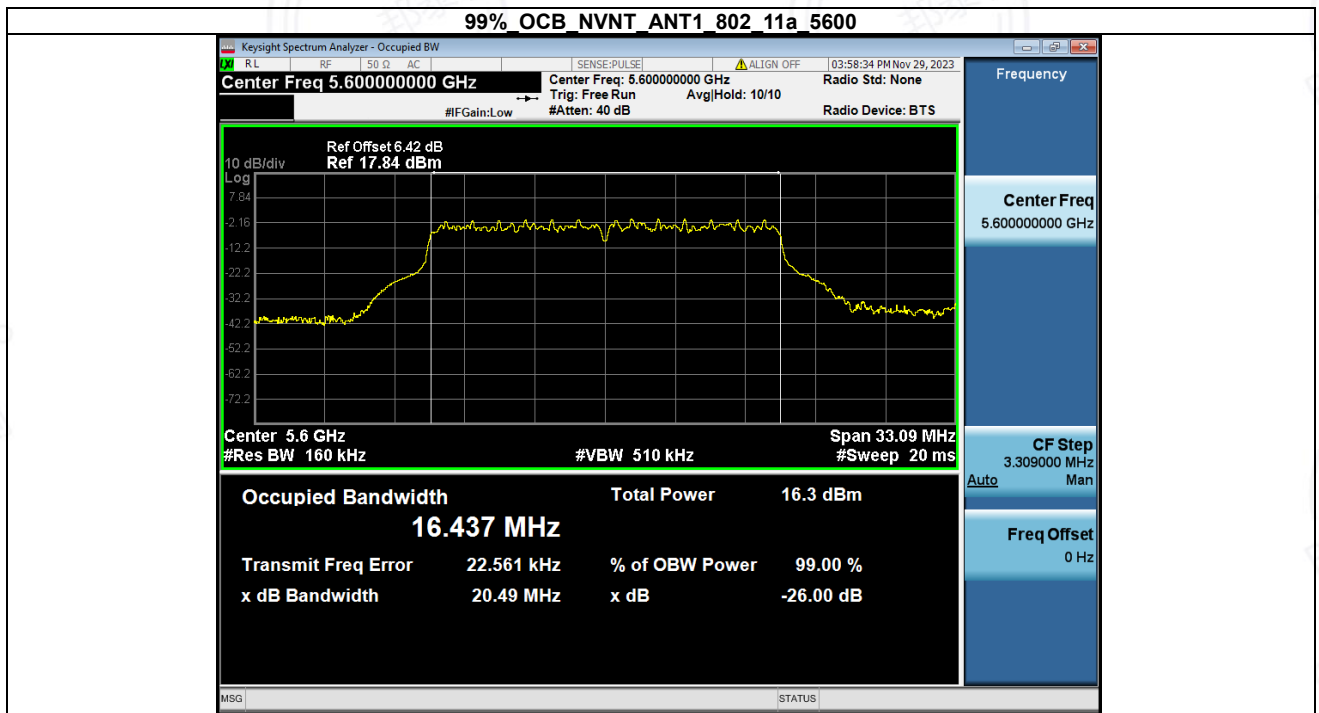
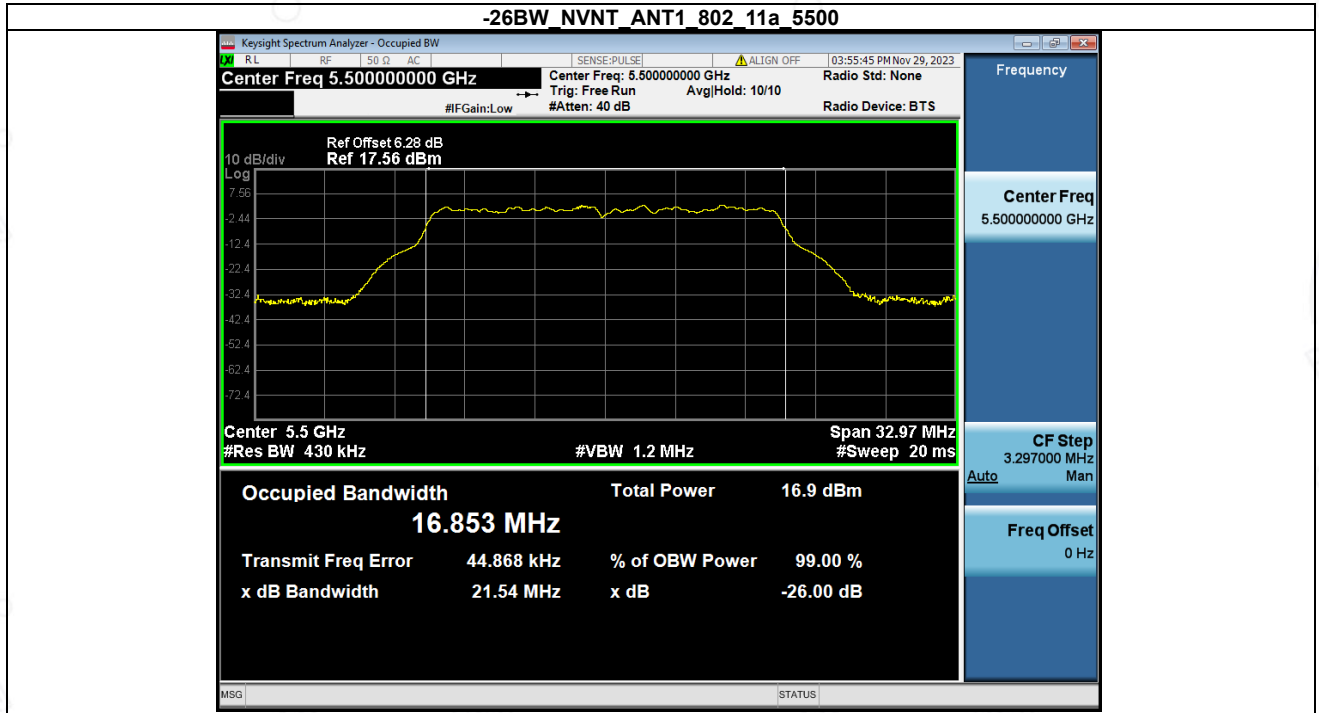
UNII-2C Wi-Fi 5G Test Data 5GWIFI

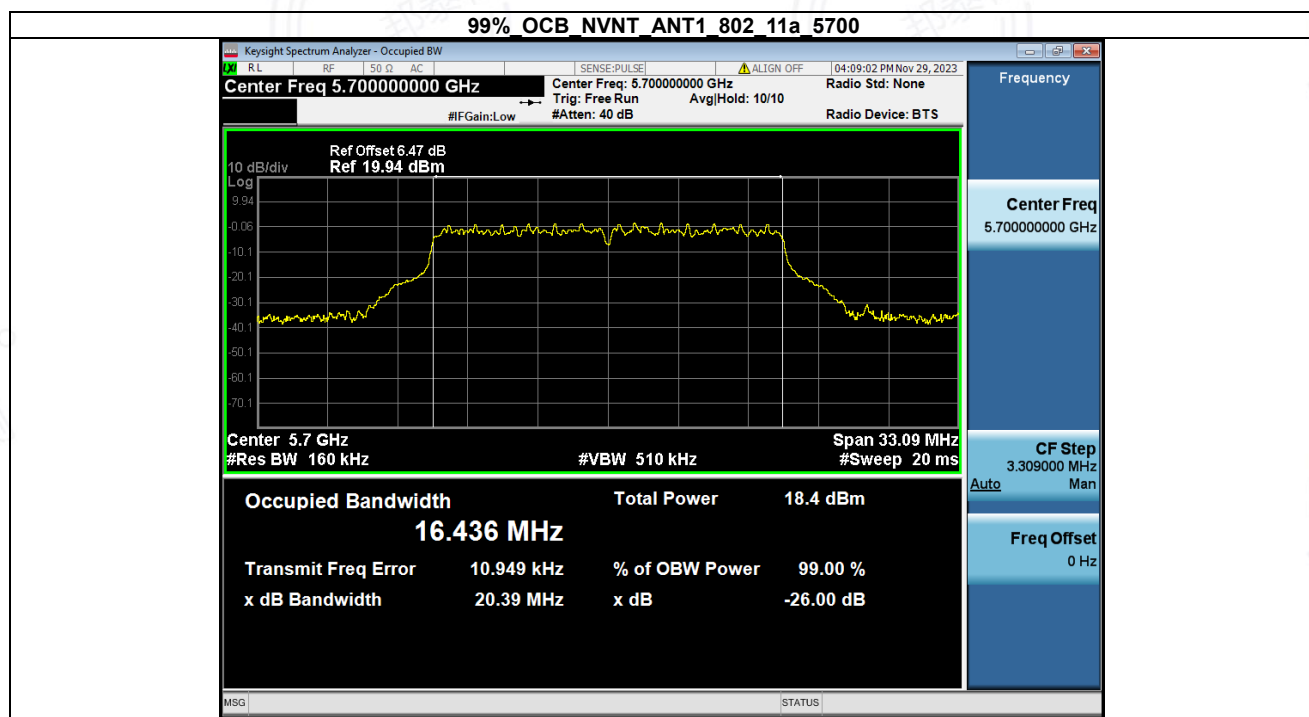
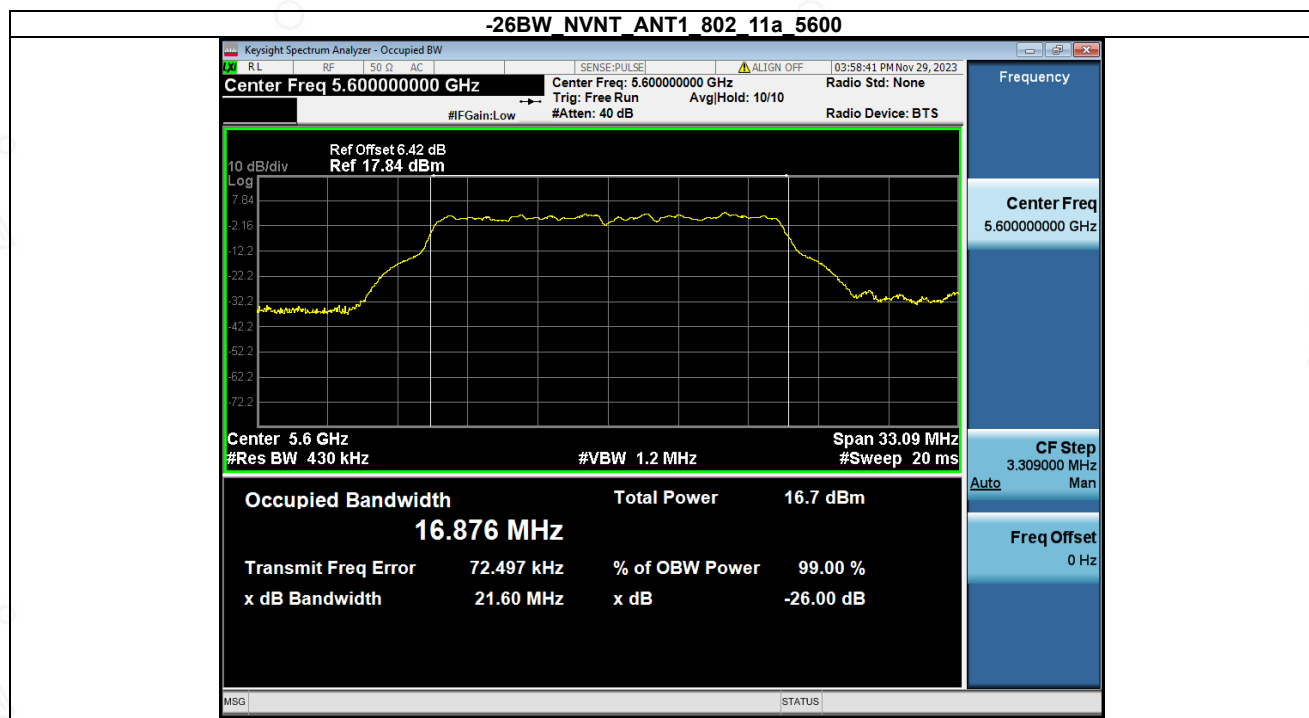


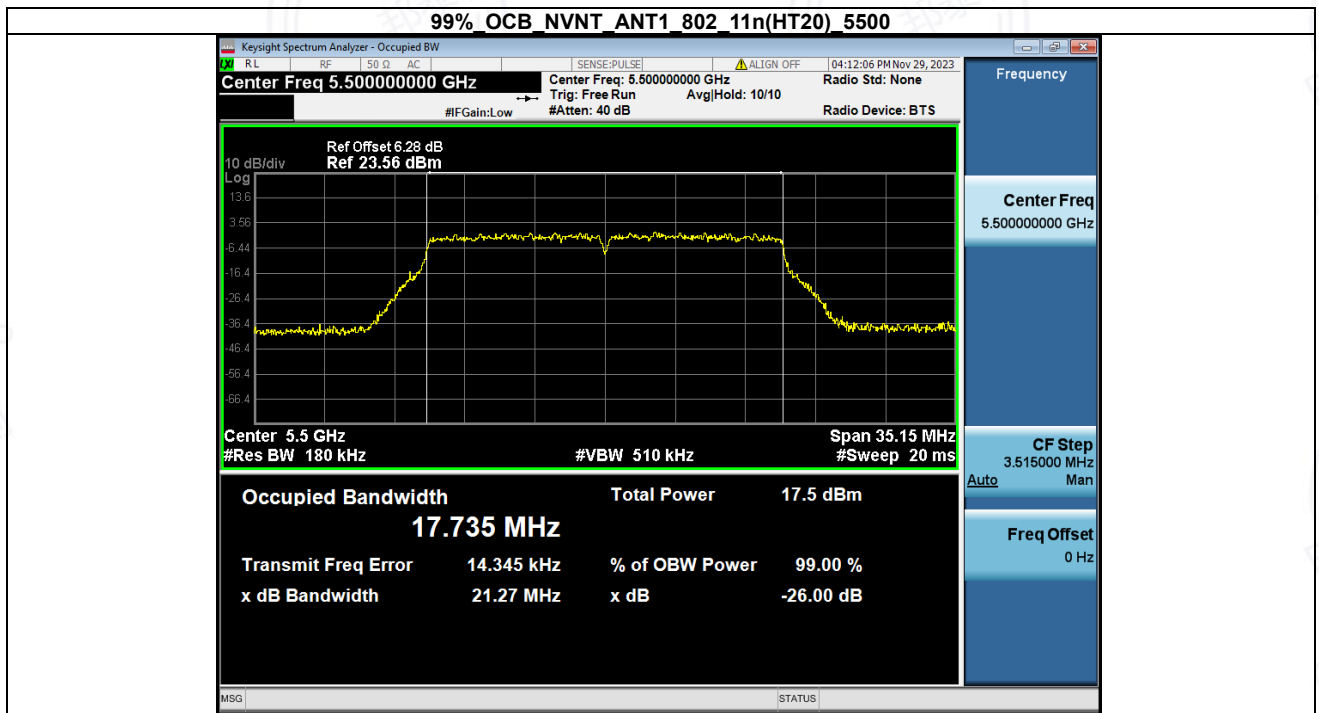
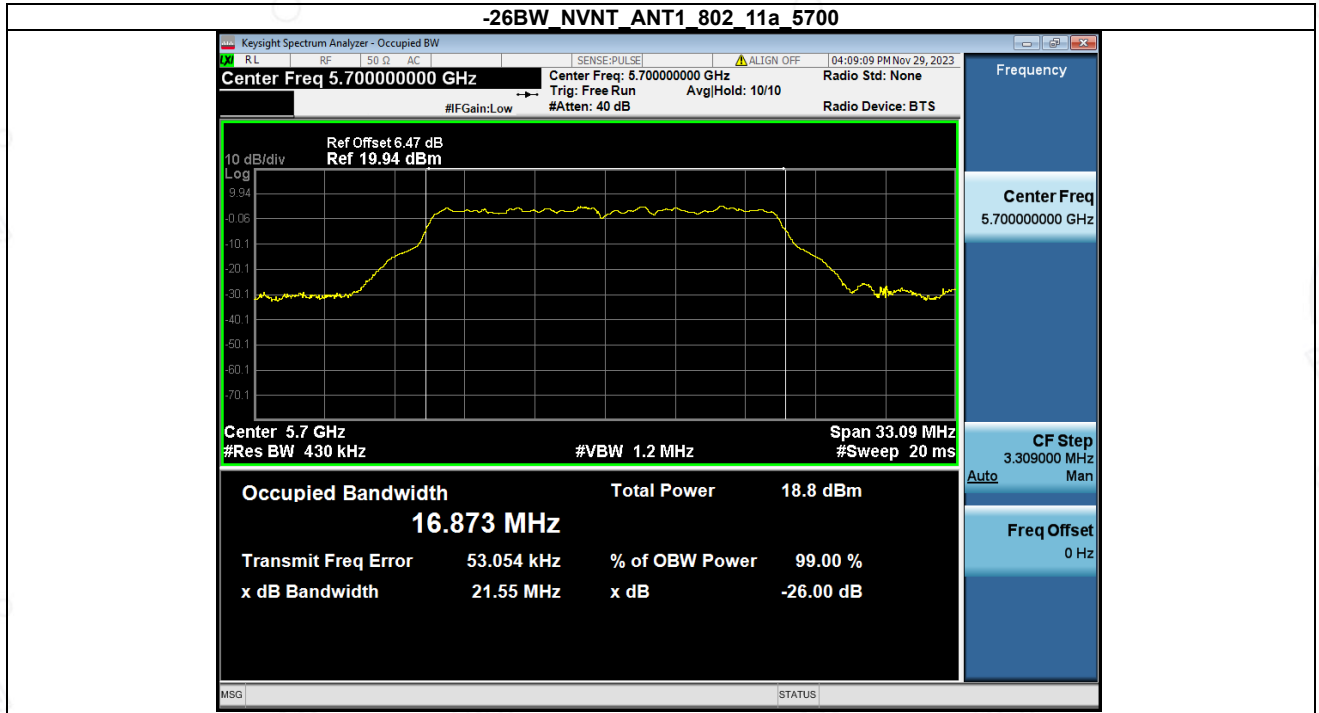
1. -26dB and 99% Emission Bandwidth

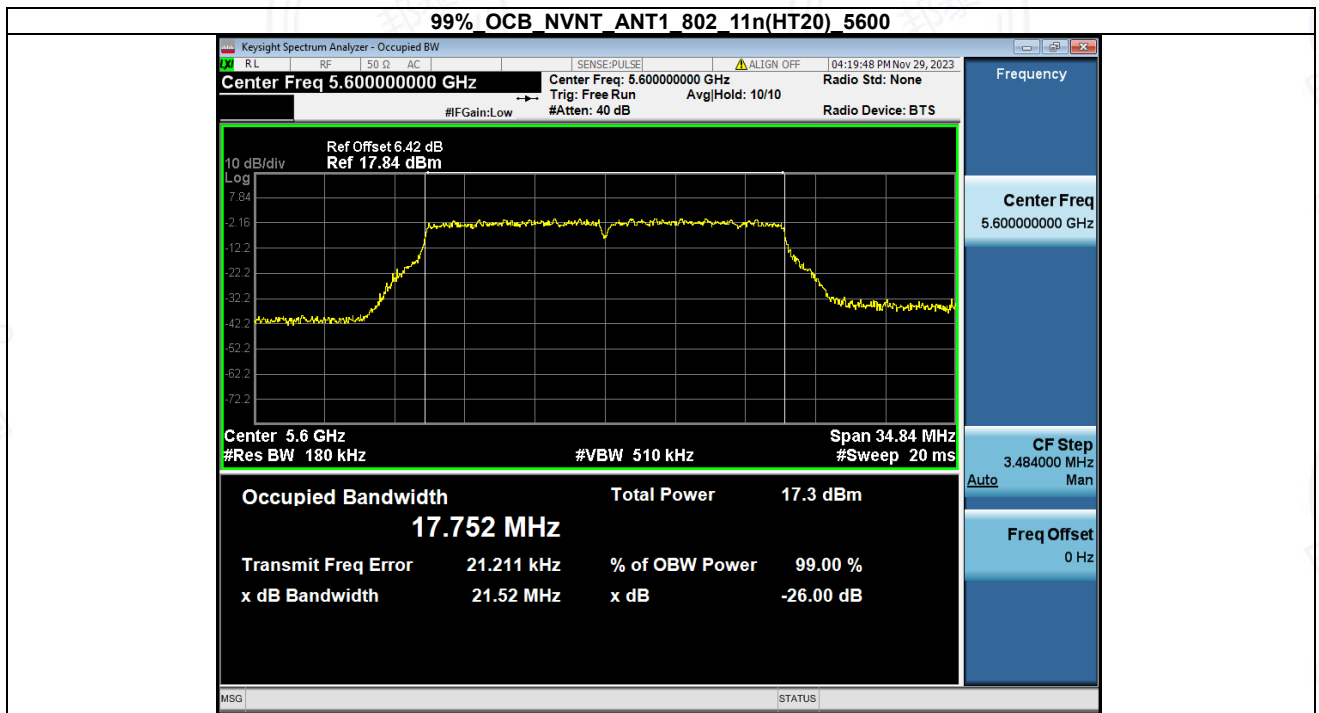
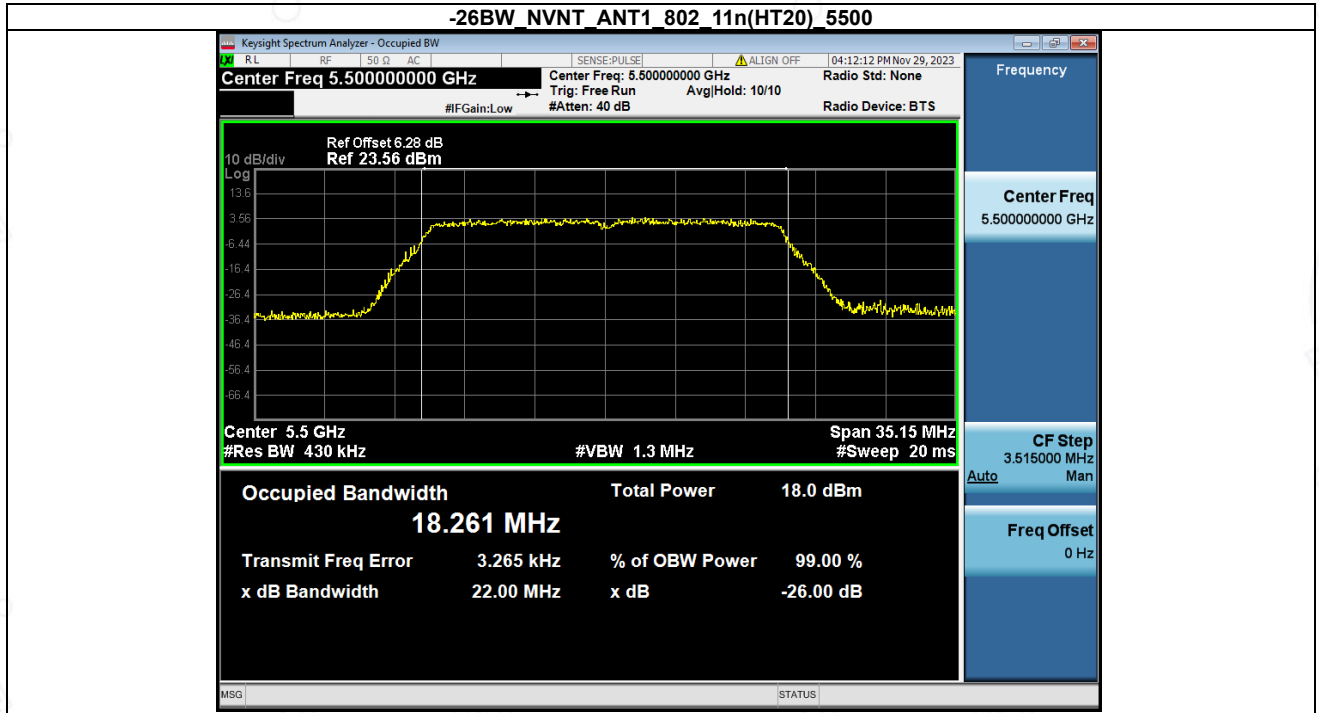
Condition	Antenna	Modulation	Frequency(MHz)	26dB Emission Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5500.00	21.54	16.44
NVNT	ANT1	802.11a	5600.00	21.60	16.44
NVNT	ANT1	802.11a	5700.00	21.55	16.44
NVNT	ANT1	802.11n(HT20)	5500.00	22.00	17.74
NVNT	ANT1	802.11n(HT20)	5600.00	21.80	17.75
NVNT	ANT1	802.11n(HT20)	5700.00	21.90	17.76
NVNT	ANT1	802.11ac(VHT20)	5500.00	21.90	17.71
NVNT	ANT1	802.11ac(VHT20)	5600.00	21.75	17.73
NVNT	ANT1	802.11ac(VHT20)	5700.00	21.67	17.70

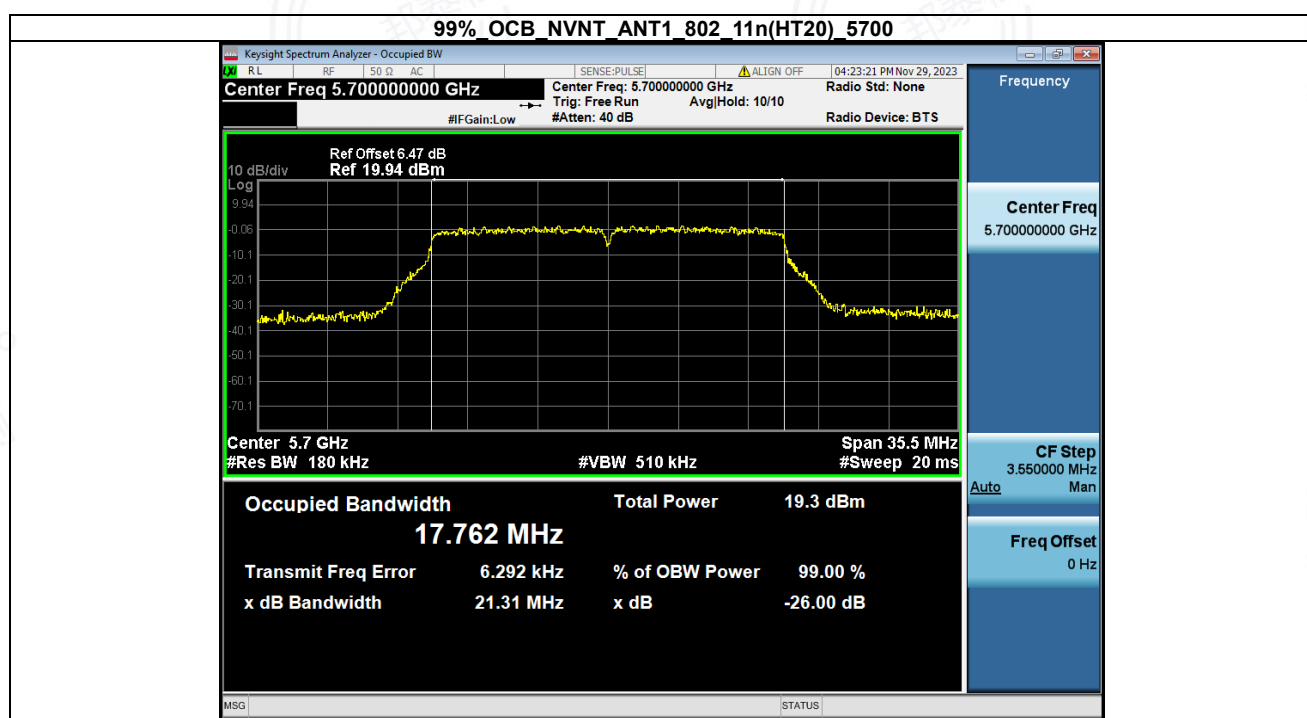
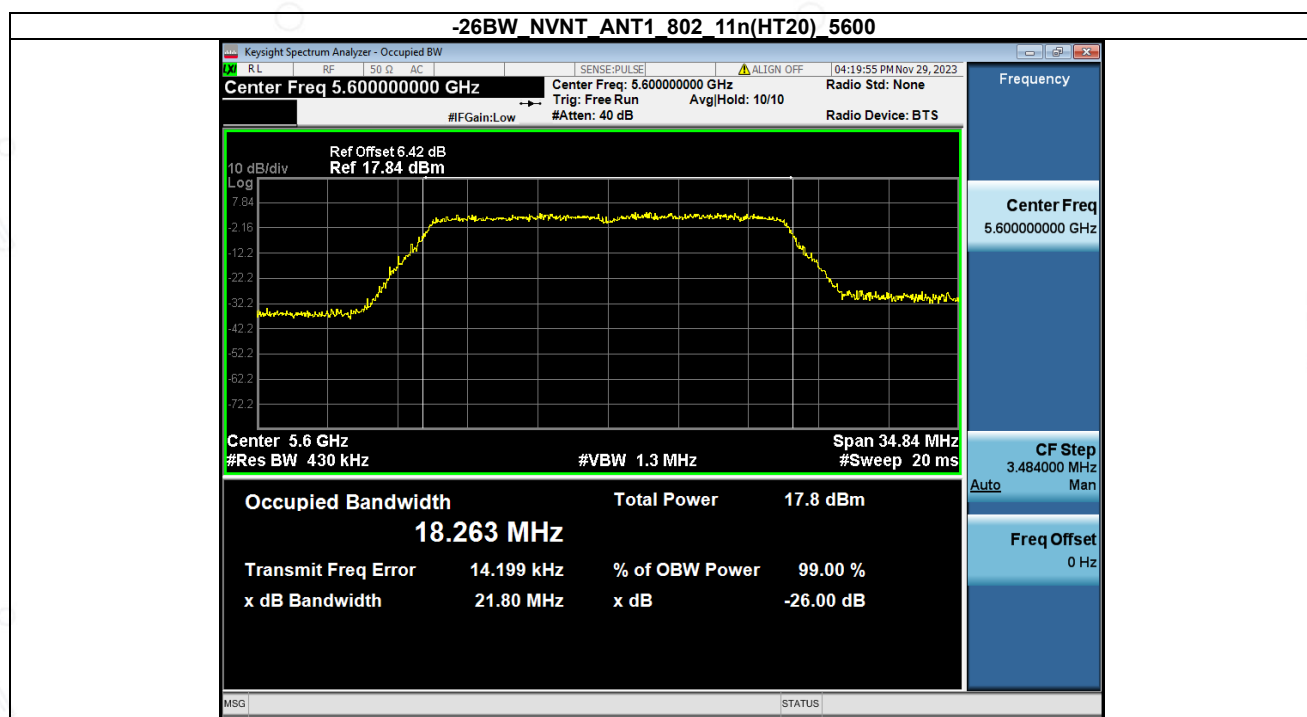


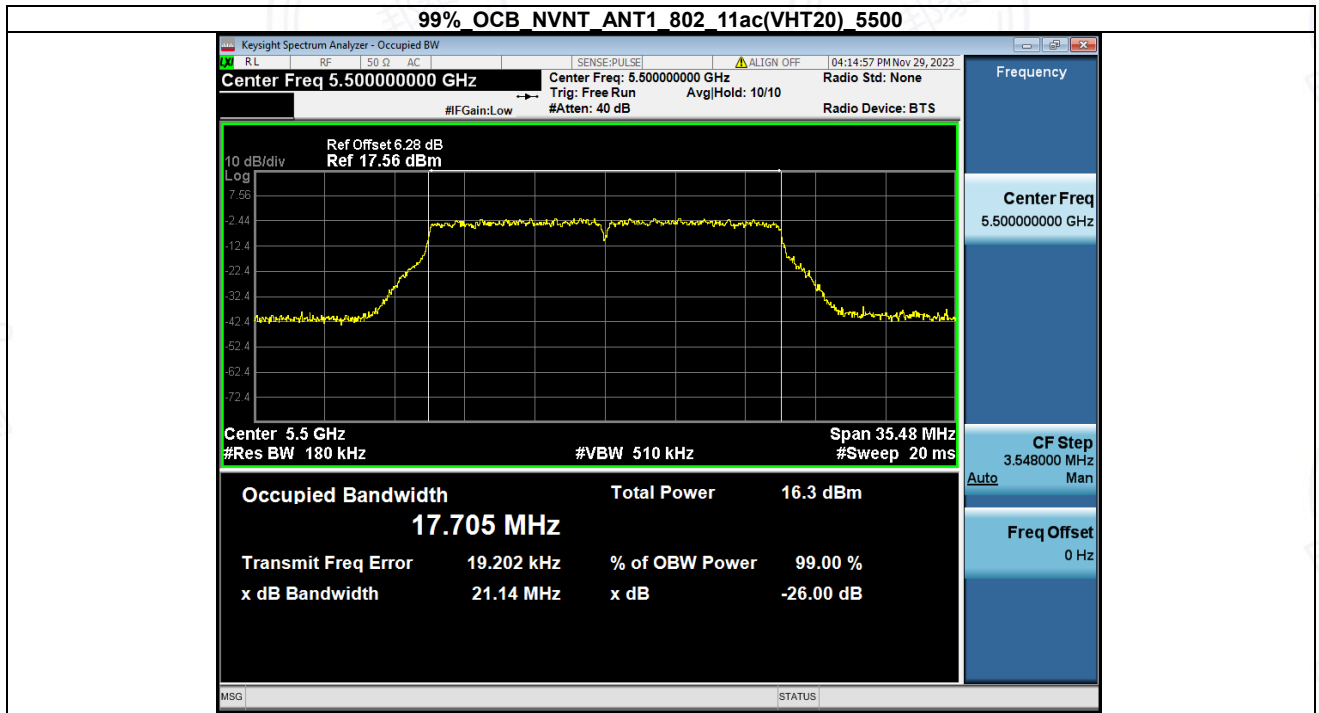
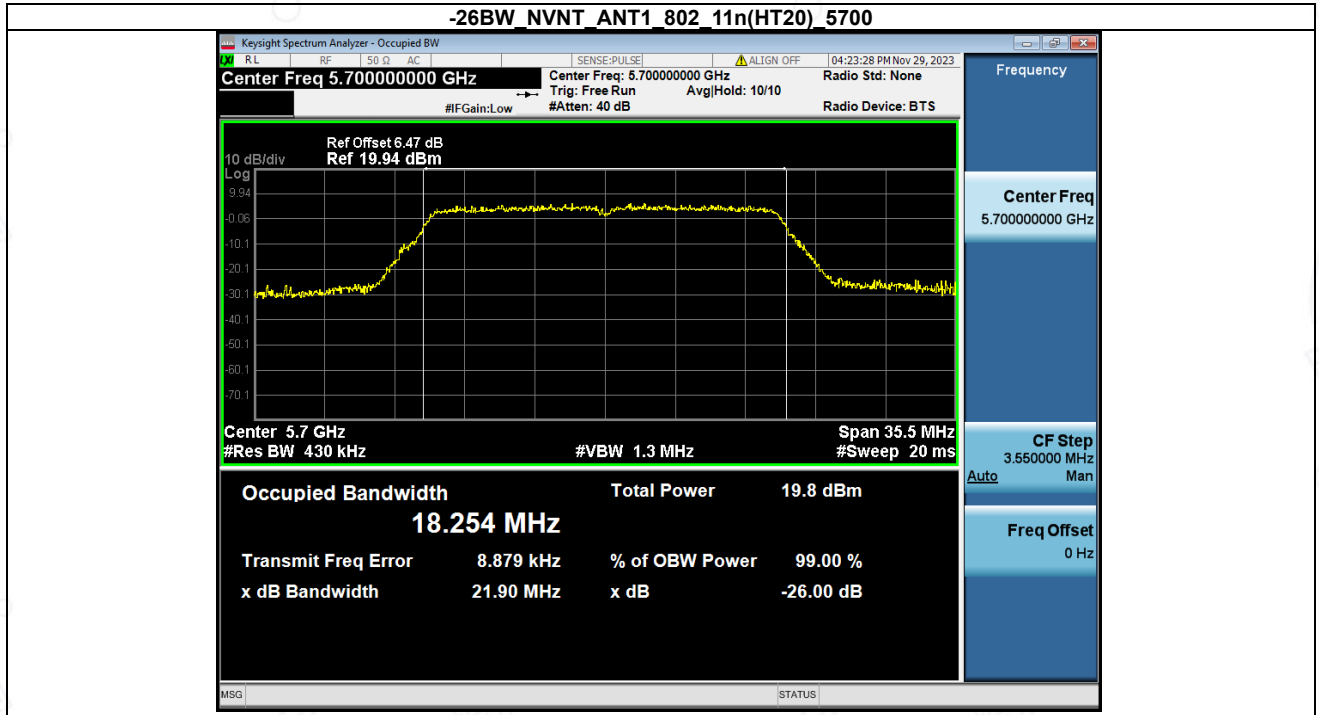


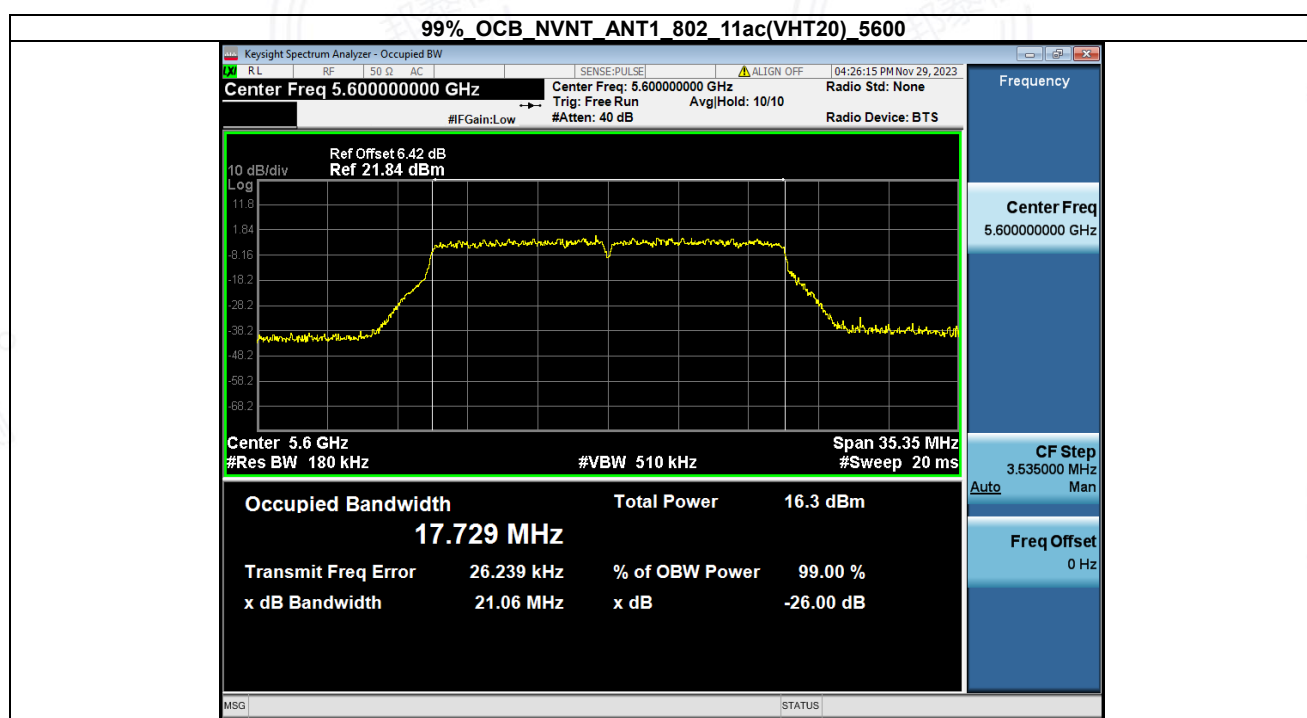
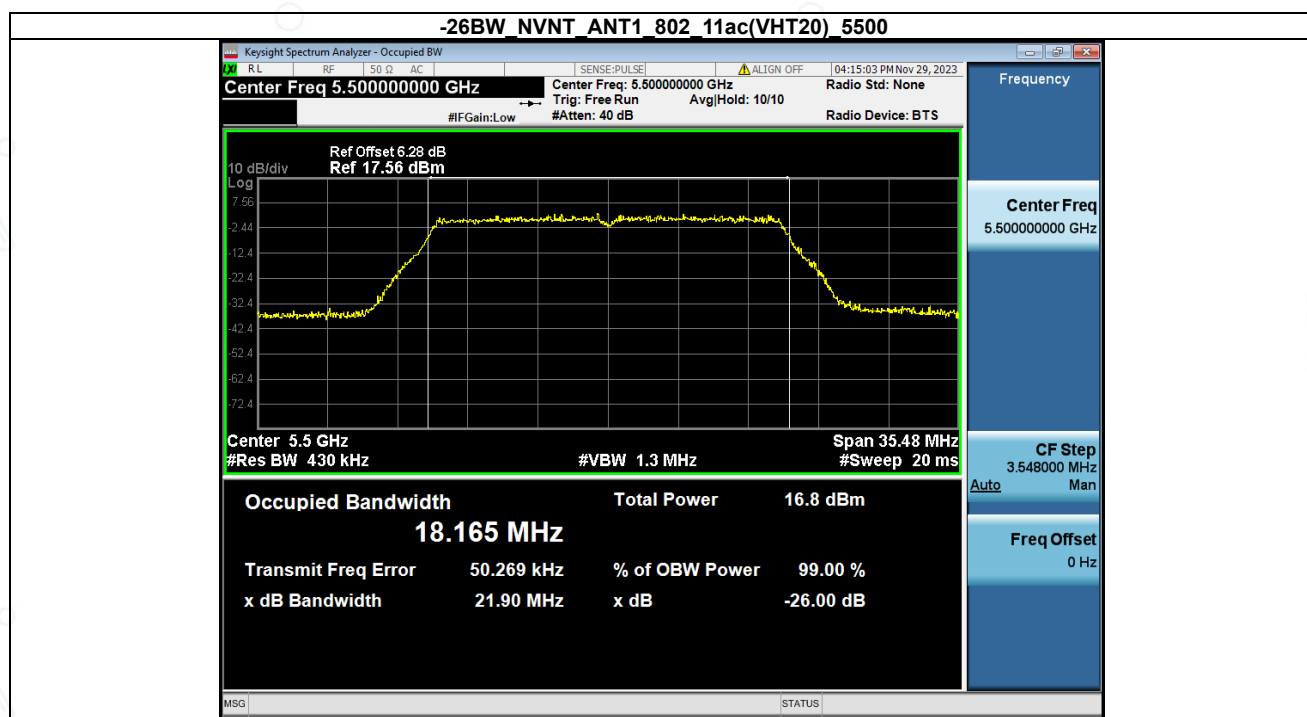


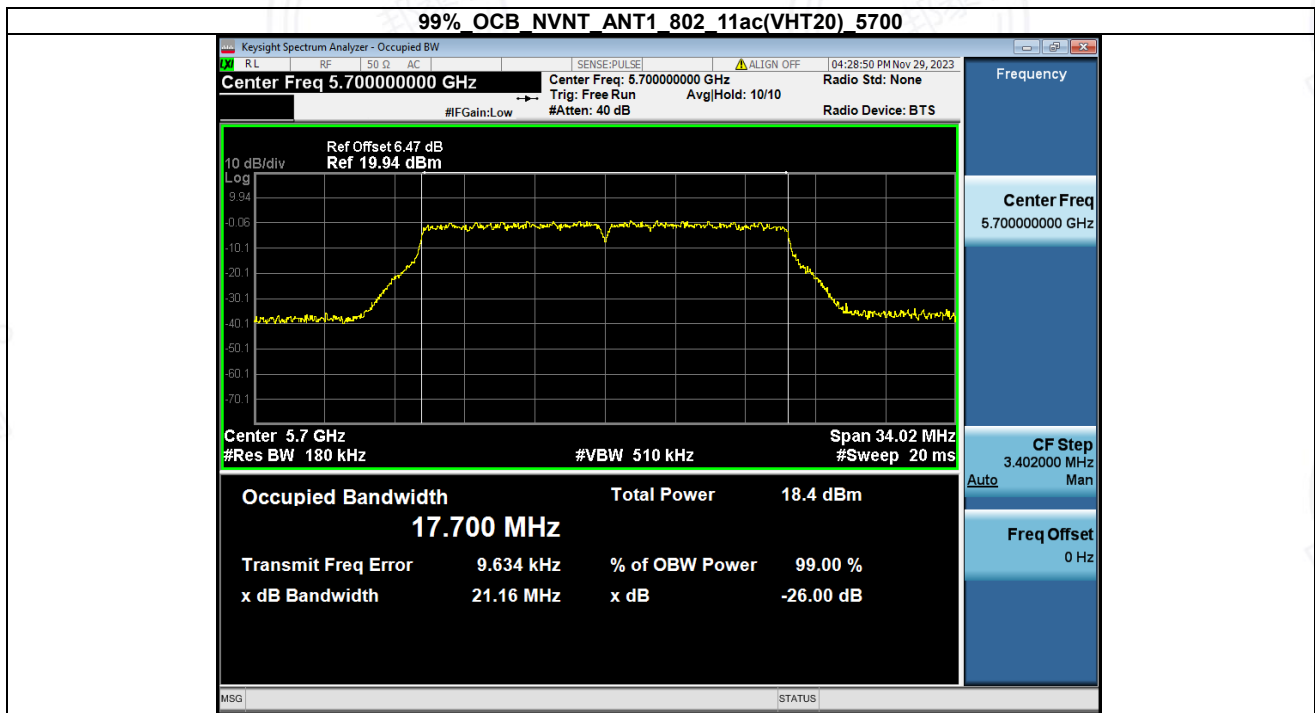
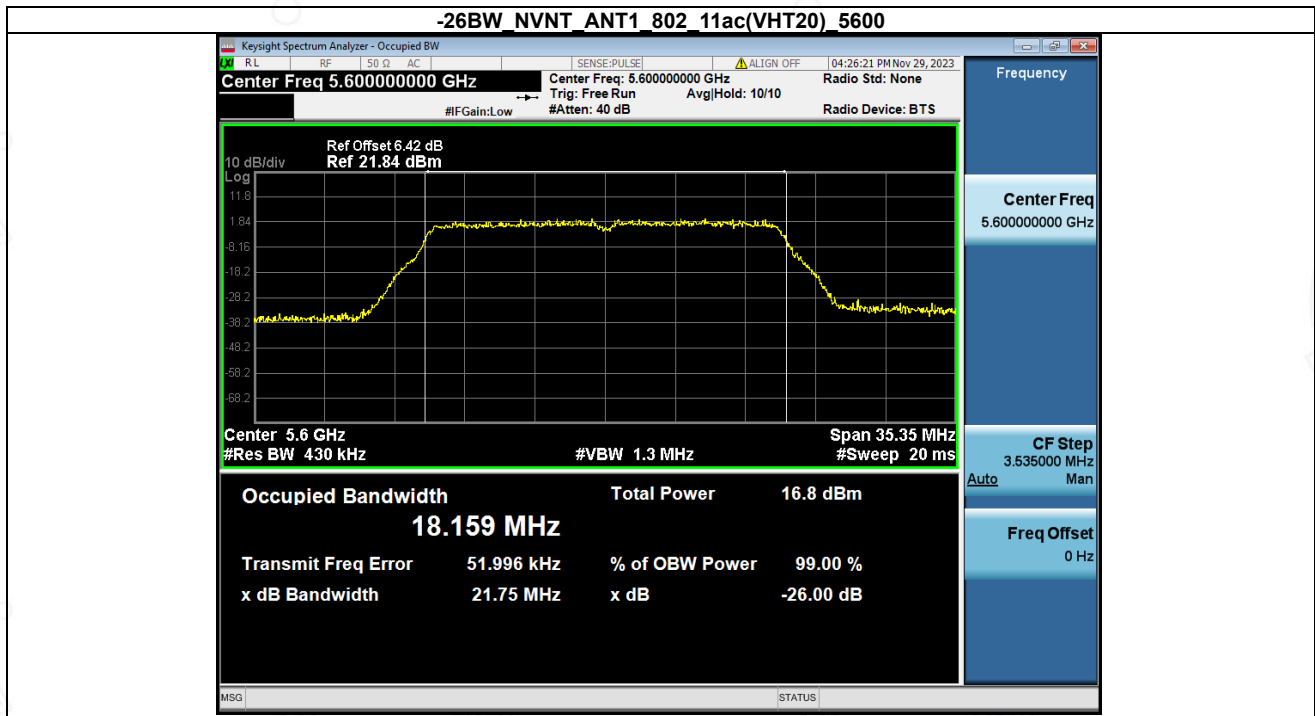


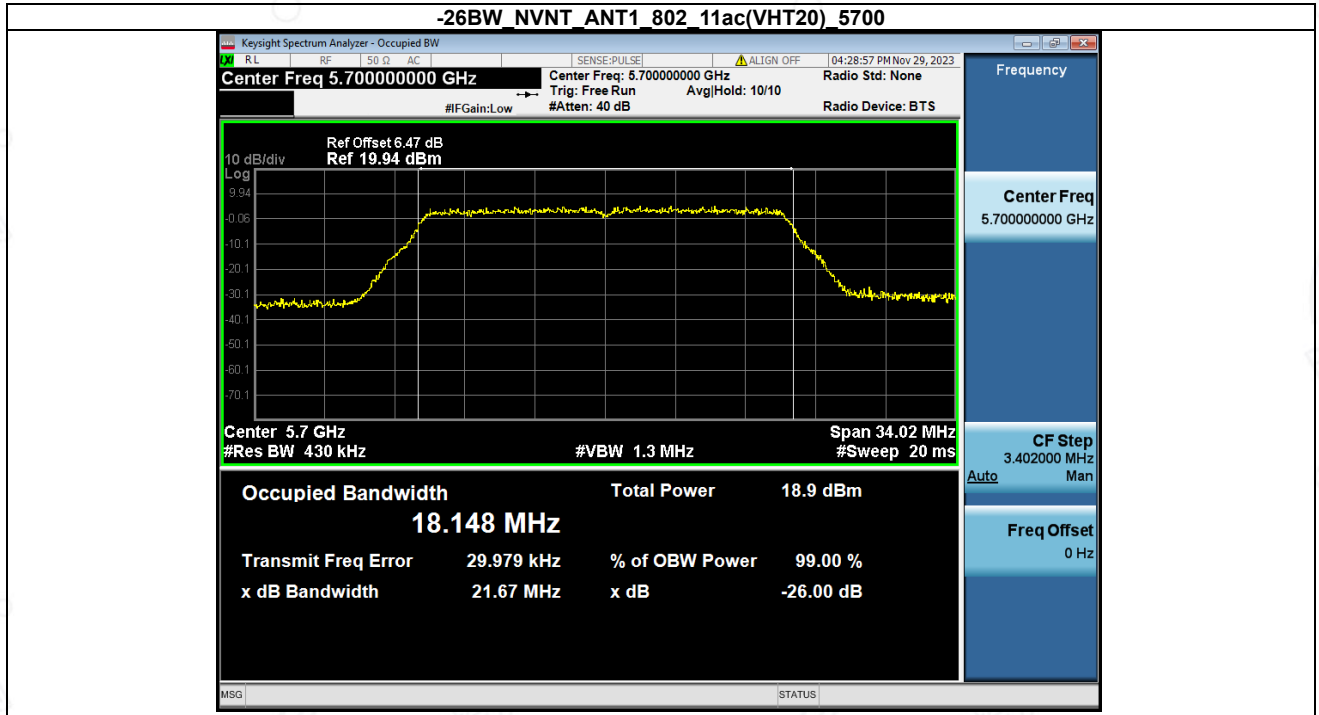






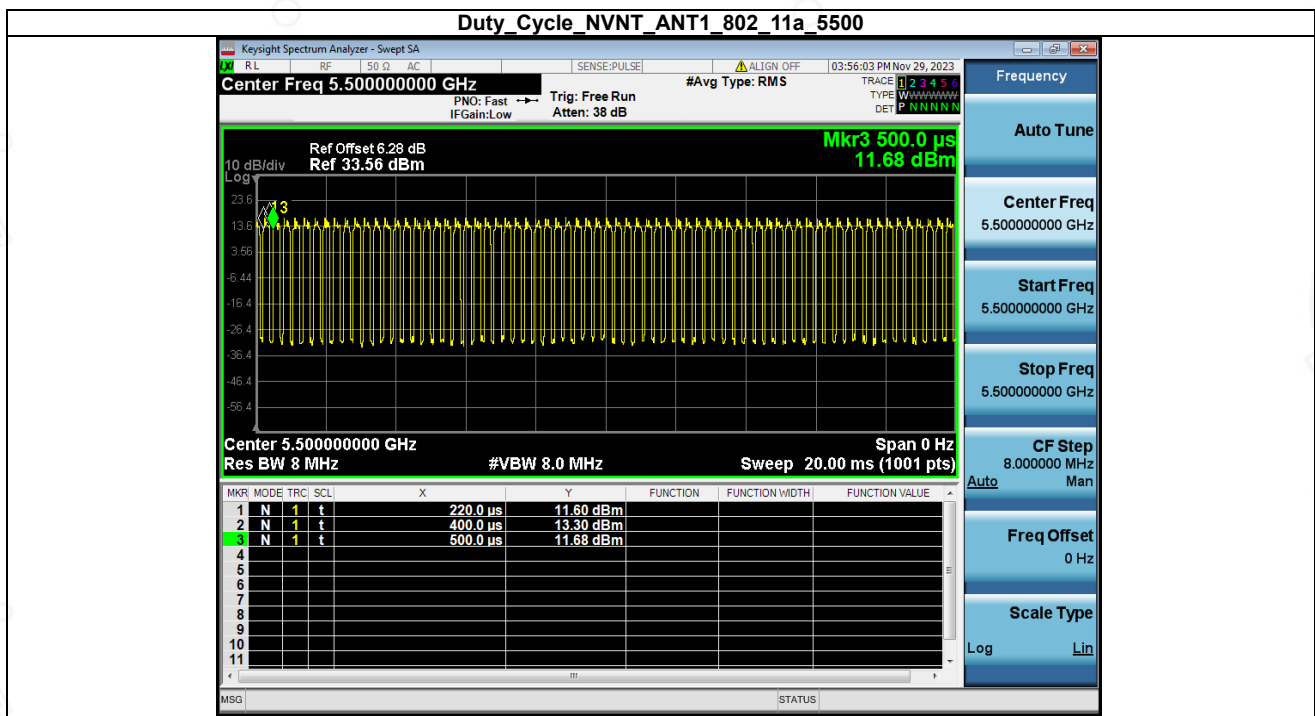






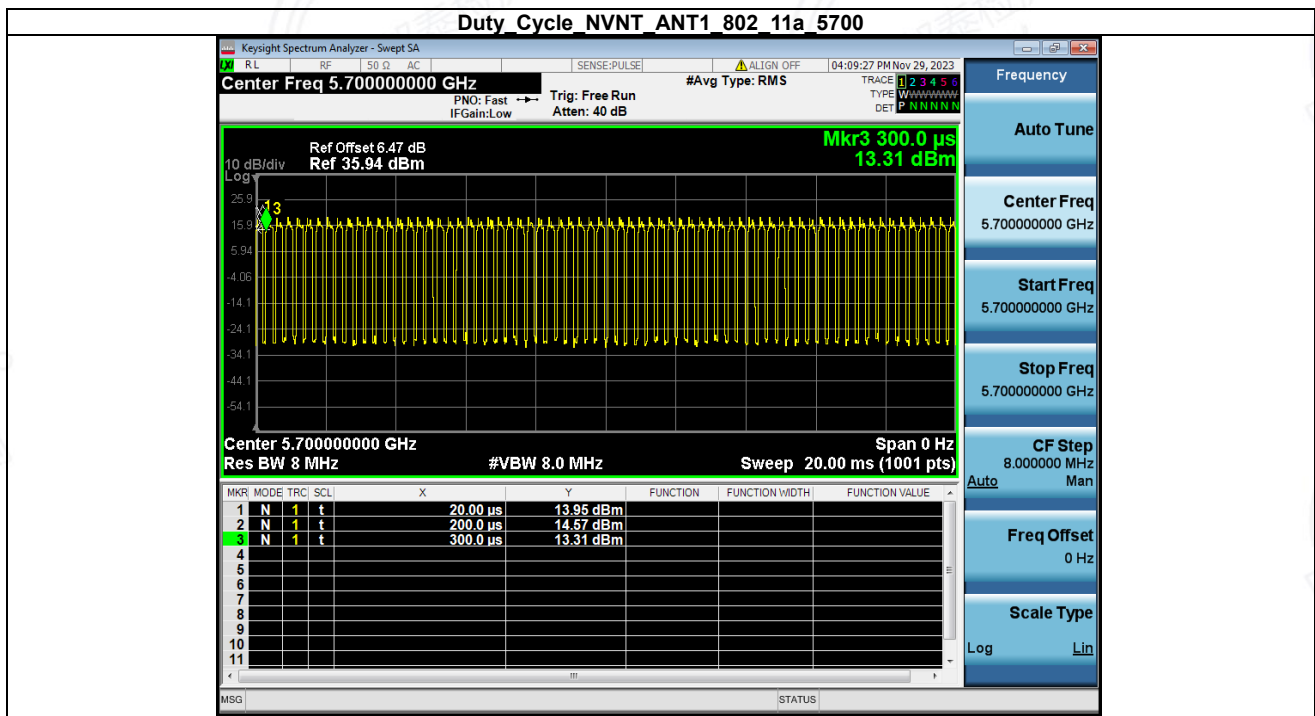
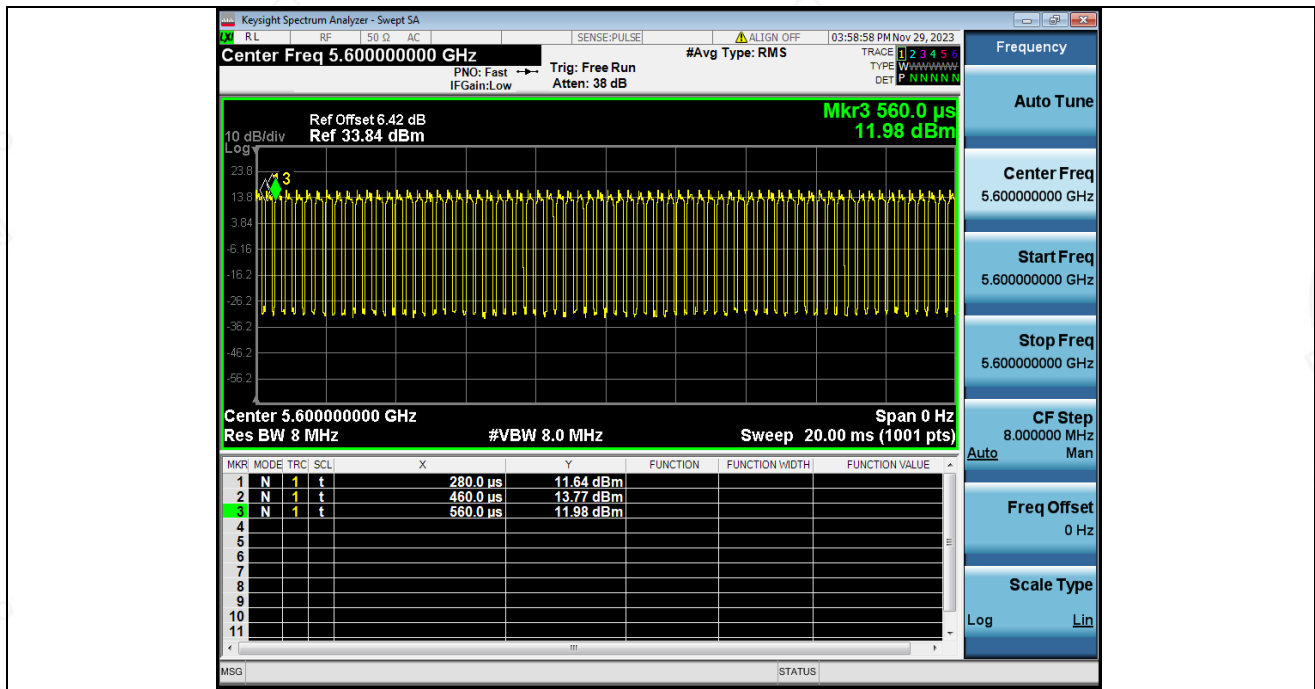
2. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5500.00	64.29	1.92
NVNT	ANT1	802.11a	5600.00	64.29	1.92
NVNT	ANT1	802.11a	5700.00	64.29	1.92
NVNT	ANT1	802.11n(HT20)	5500.00	57.14	2.43
NVNT	ANT1	802.11n(HT20)	5600.00	57.14	2.43
NVNT	ANT1	802.11n(HT20)	5700.00	57.14	2.43
NVNT	ANT1	802.11ac(VHT20)	5500.00	61.54	2.11
NVNT	ANT1	802.11ac(VHT20)	5600.00	58.33	2.34
NVNT	ANT1	802.11ac(VHT20)	5700.00	61.54	2.11



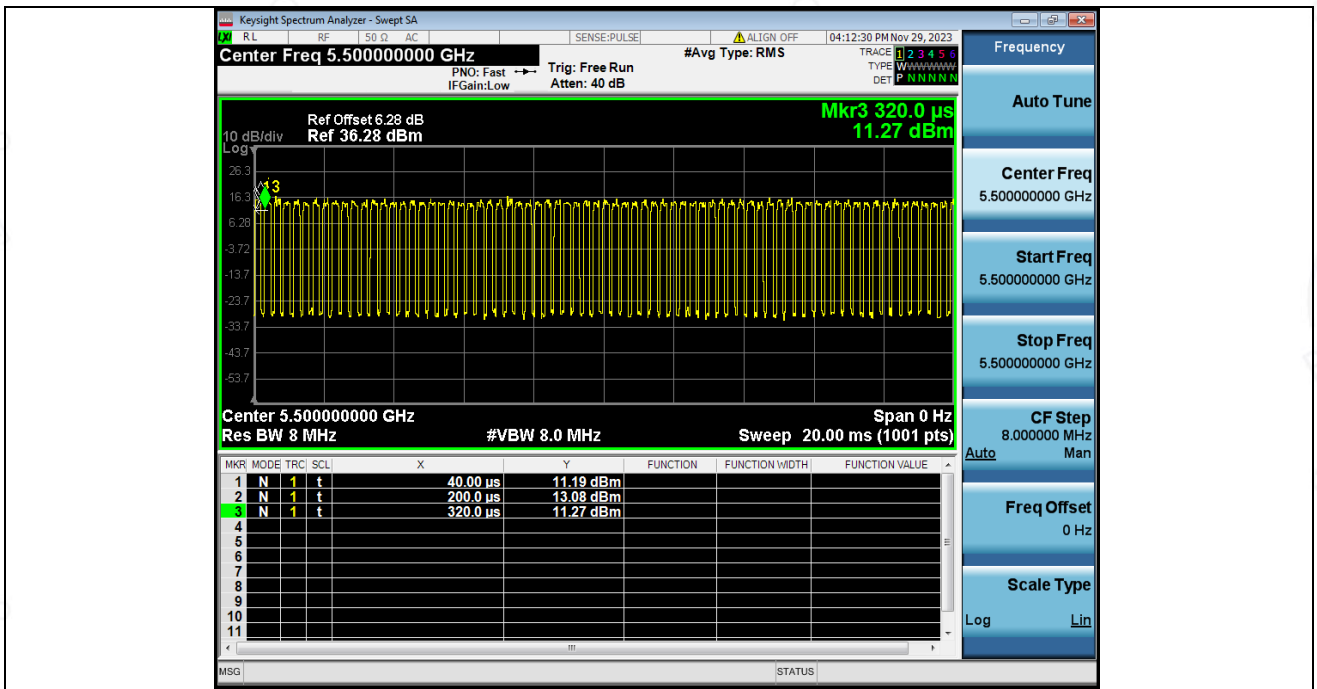
Duty_Cycle_NVNT_ANT1_802_11a_5600

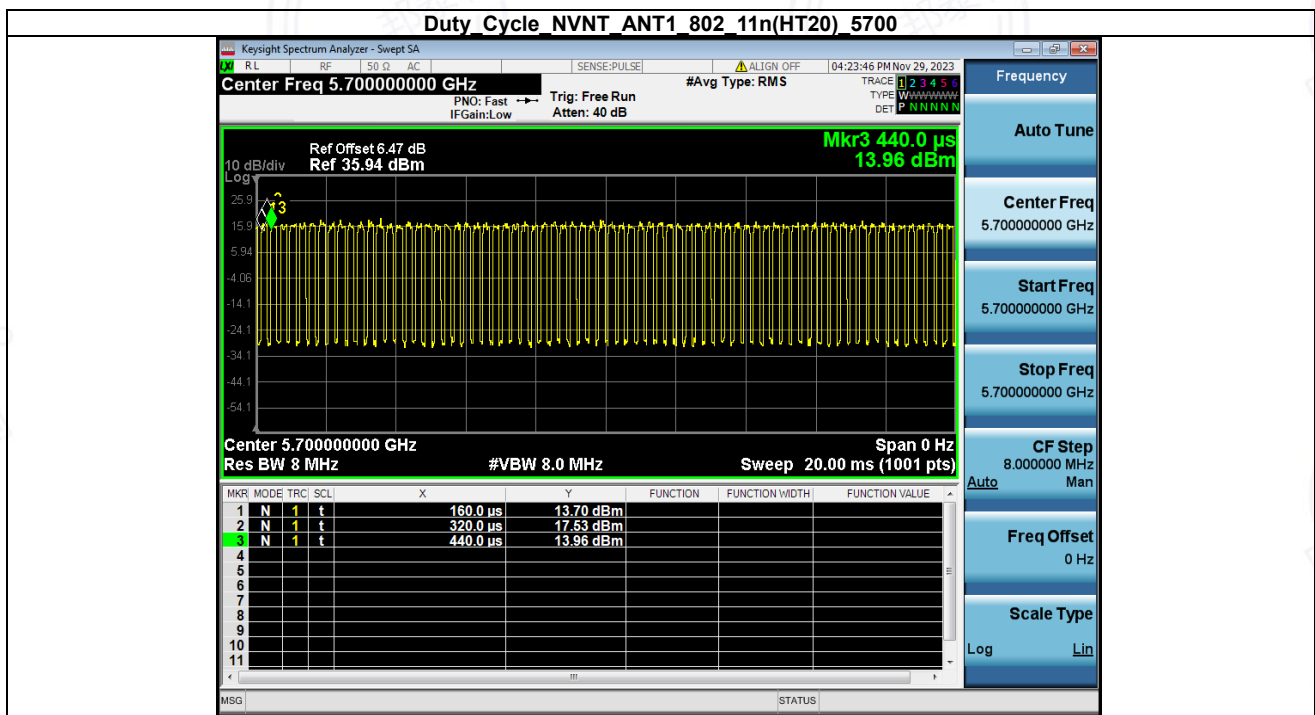
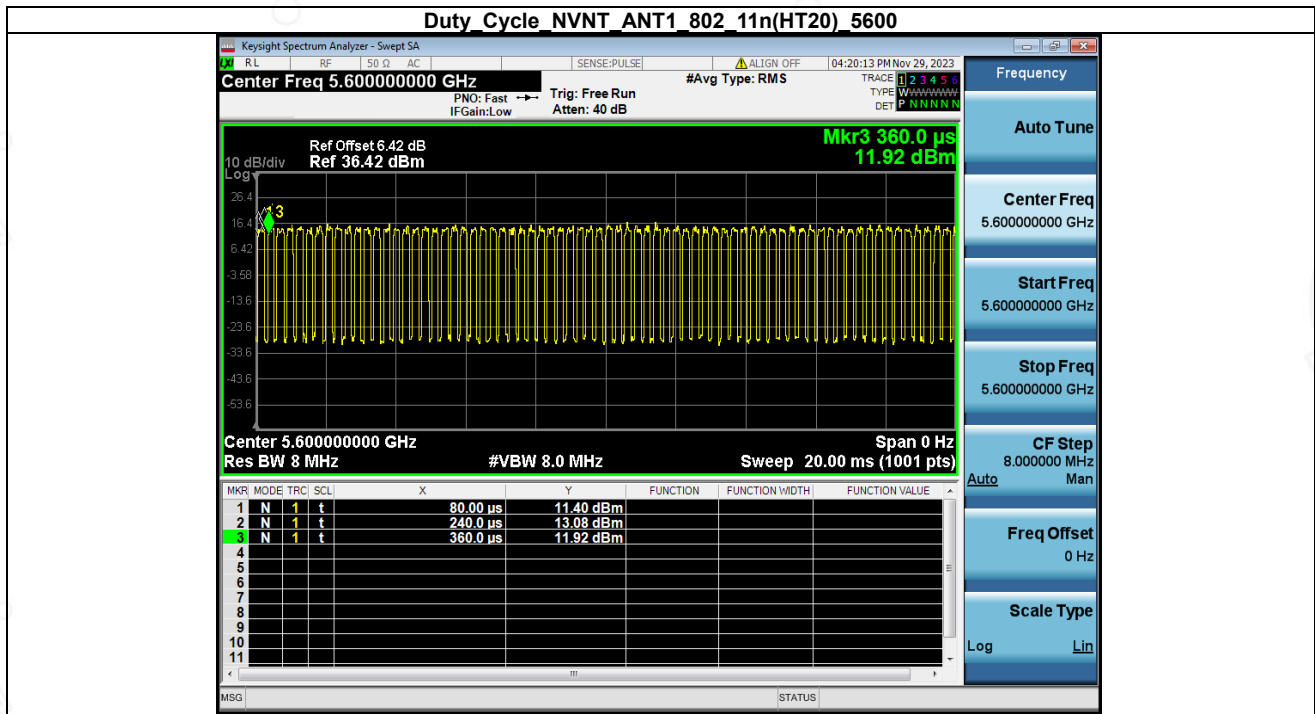


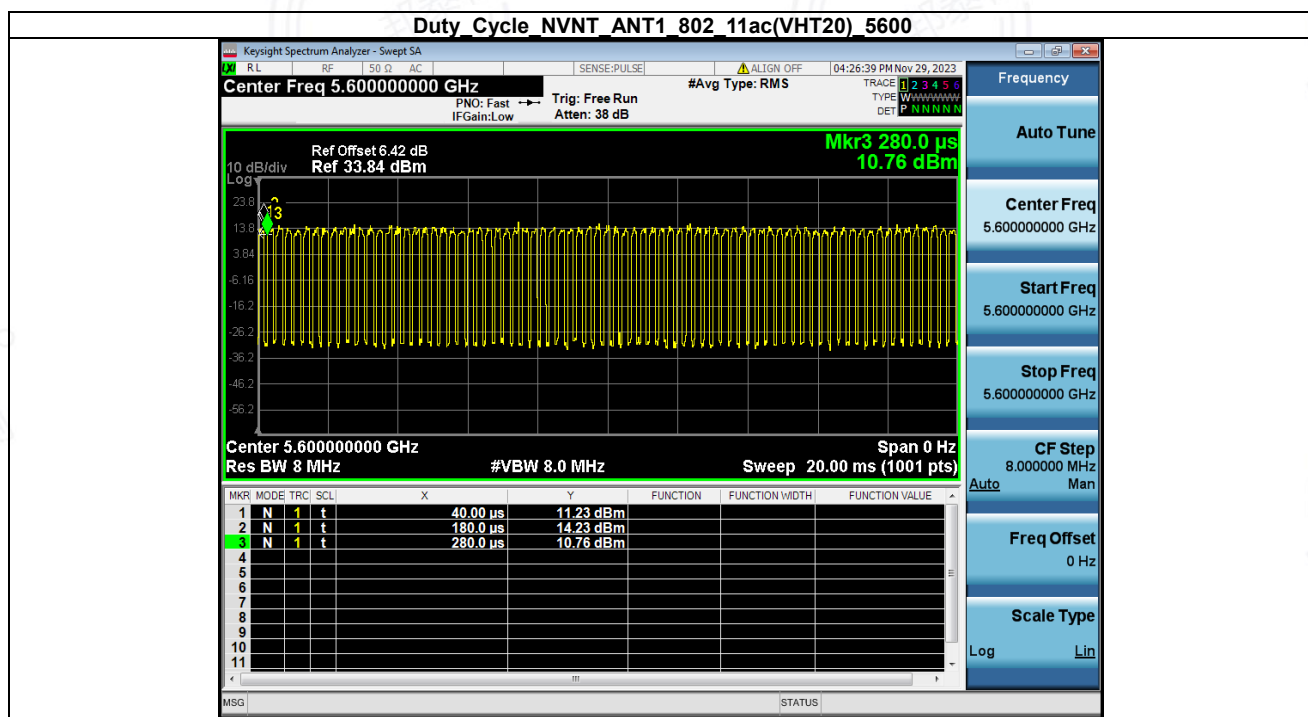
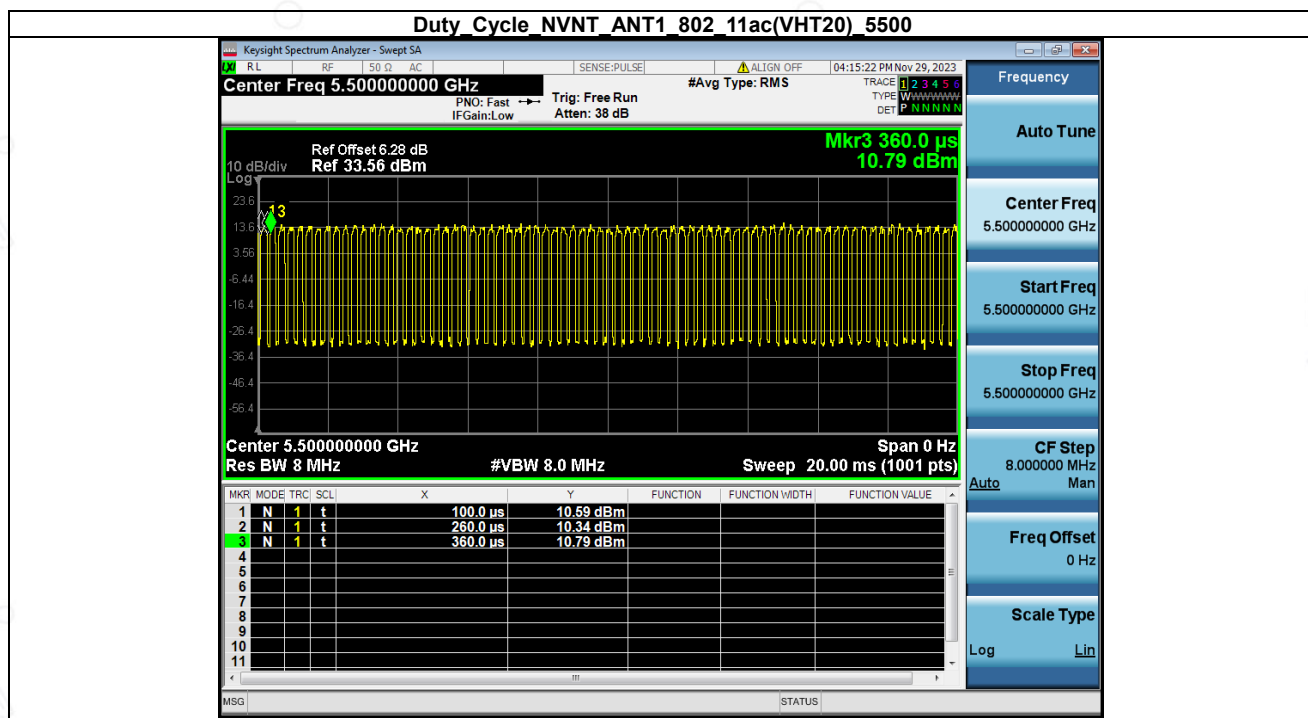


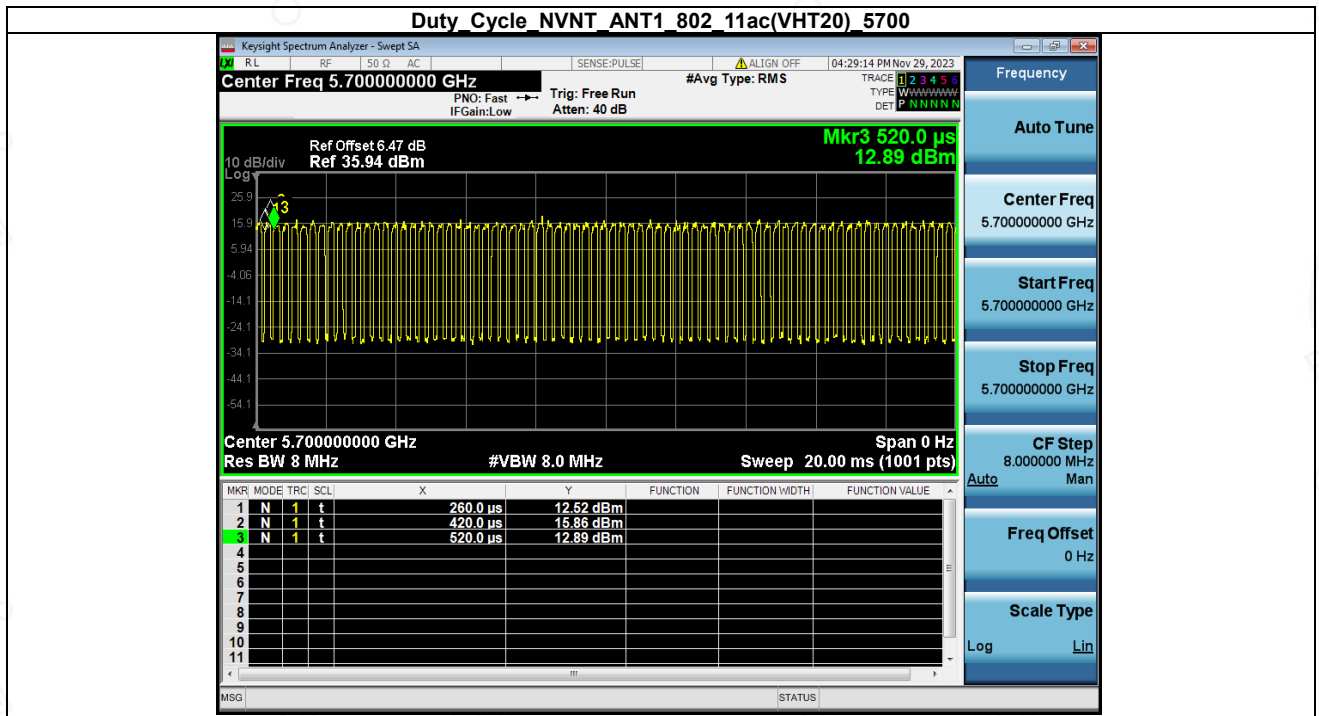
Duty Cycle NVNT ANT1_802_11n(HT20)_5500











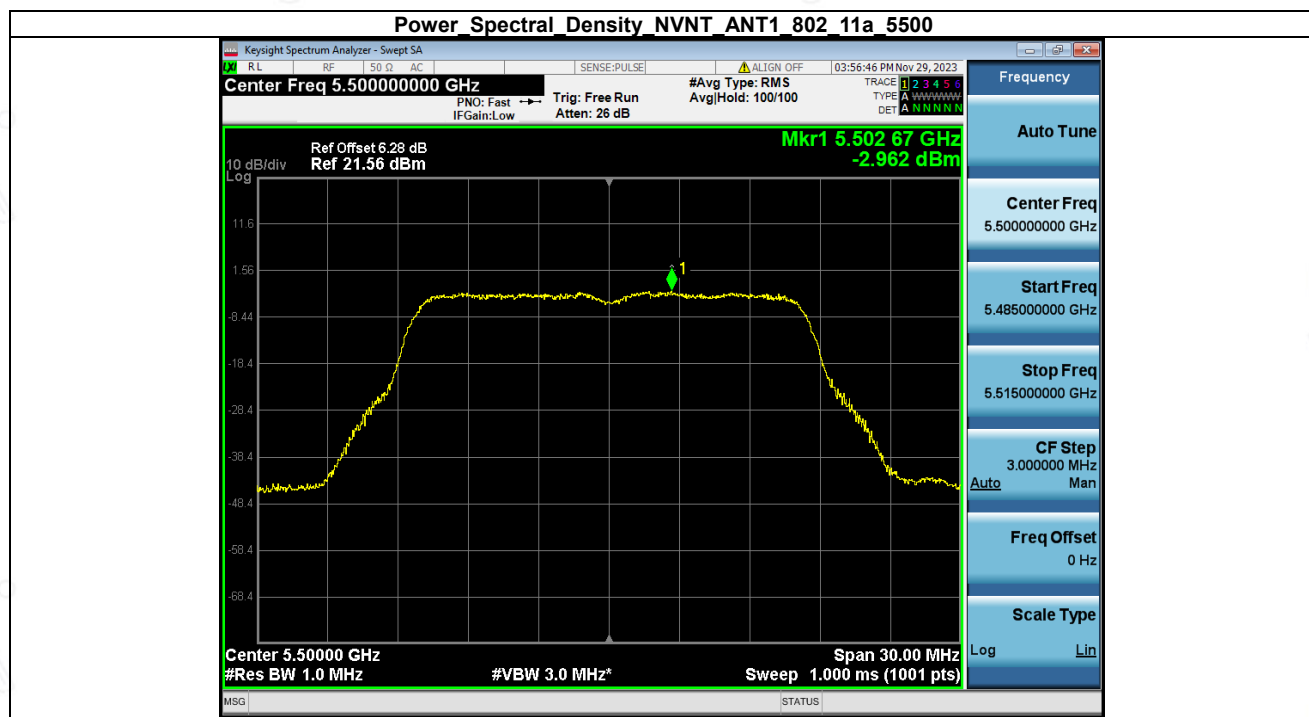
3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency(MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500.00	8.02	1.92	9.94	24	Pass
NVNT	ANT1	802.11a	5600.00	7.84	1.92	9.76	24	Pass
NVNT	ANT1	802.11a	5700.00	9.89	1.92	11.81	24	Pass
NVNT	ANT1	802.11n(HT20)	5500.00	8.04	2.43	10.47	24	Pass
NVNT	ANT1	802.11n(HT20)	5600.00	7.76	2.43	10.19	24	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	9.70	2.43	12.13	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5500.00	6.71	2.11	8.82	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5600.00	6.63	2.34	8.97	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	8.72	2.11	10.83	24	Pass



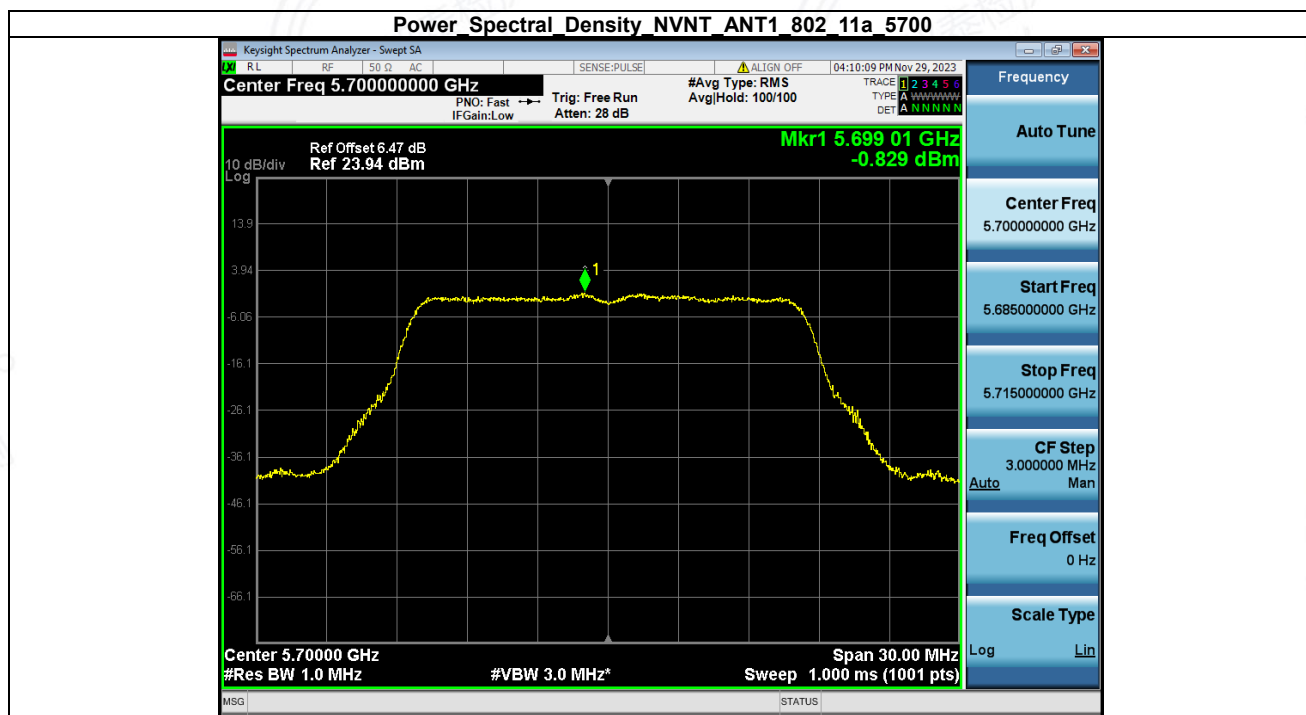
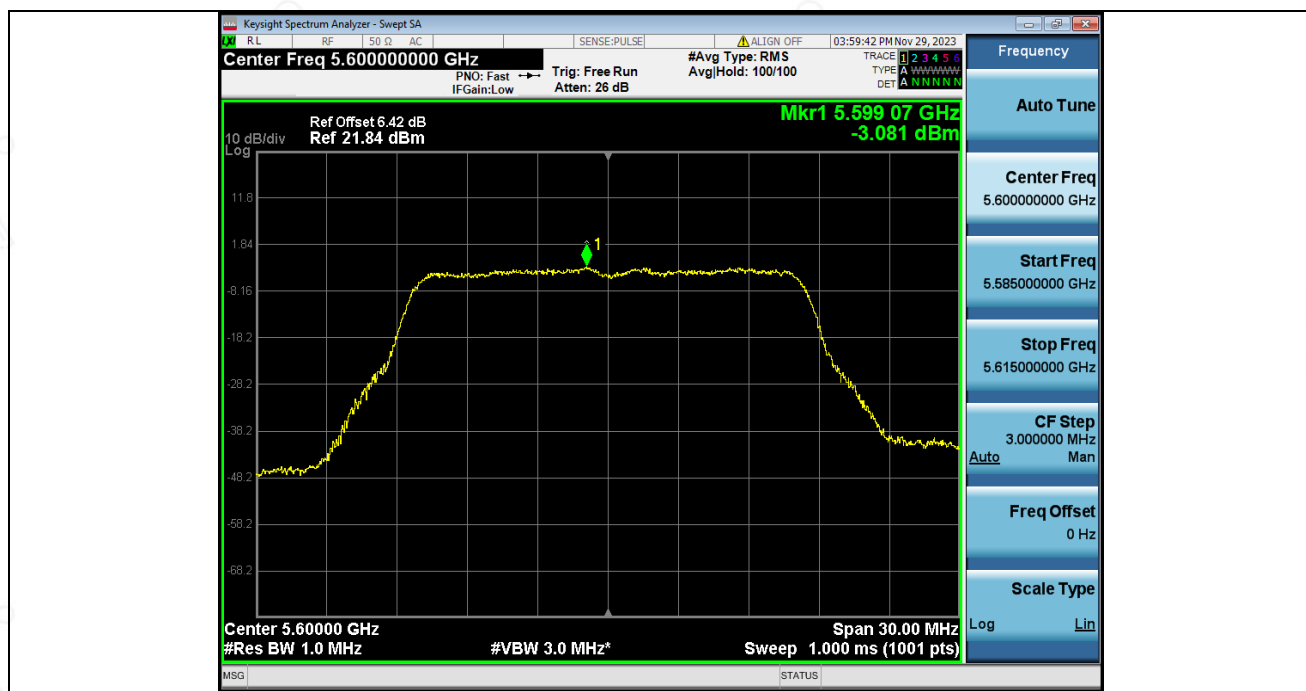
4. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/MHz)	Duty factor(dB)	Total PSD(dBm/MHz)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500.00	-2.96	1.92	-1.04	11	Pass
NVNT	ANT1	802.11a	5600.00	-3.08	1.92	-1.16	11	Pass
NVNT	ANT1	802.11a	5700.00	-0.83	1.92	1.09	11	Pass
NVNT	ANT1	802.11n(HT20)	5500.00	-3.07	2.43	-0.64	11	Pass
NVNT	ANT1	802.11n(HT20)	5600.00	-3.25	2.43	-0.82	11	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	-1.44	2.43	0.99	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5500.00	-4.45	2.11	-2.34	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5600.00	-4.01	2.34	-1.67	11	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	-2.62	2.11	-0.51	11	Pass



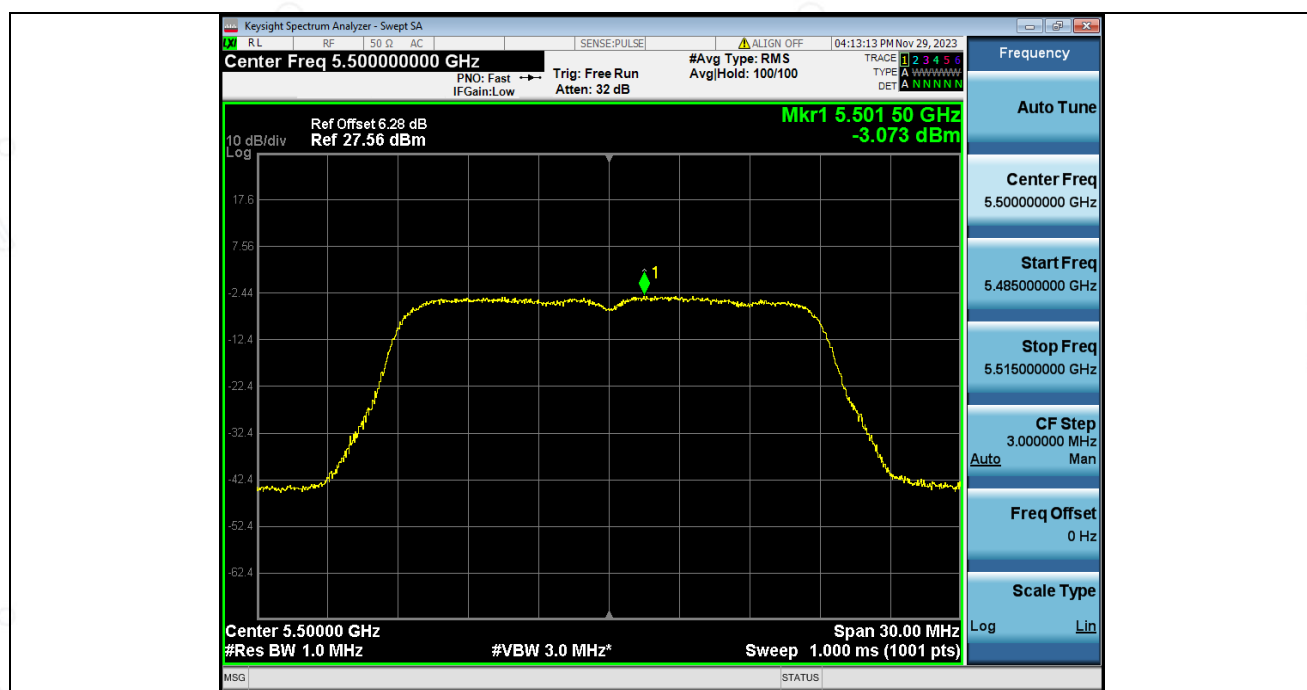
Power Spectral Density NVNT ANT1 802 11a 5600

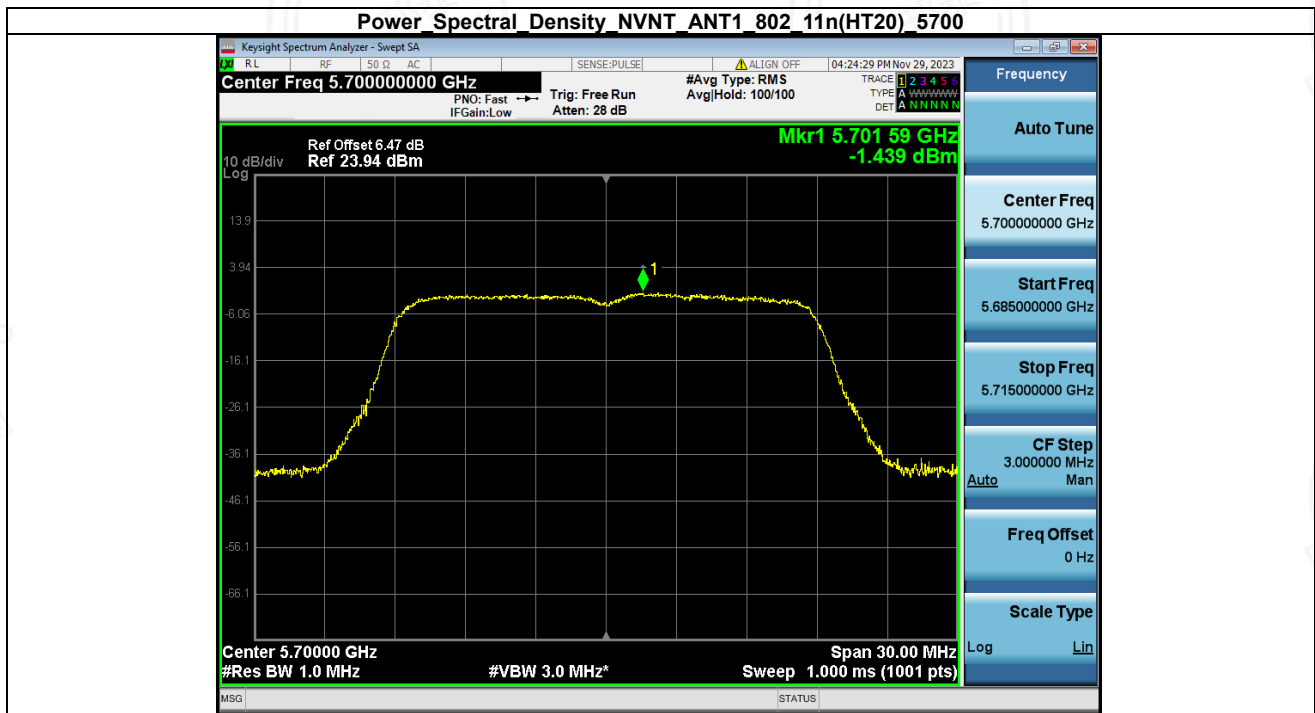


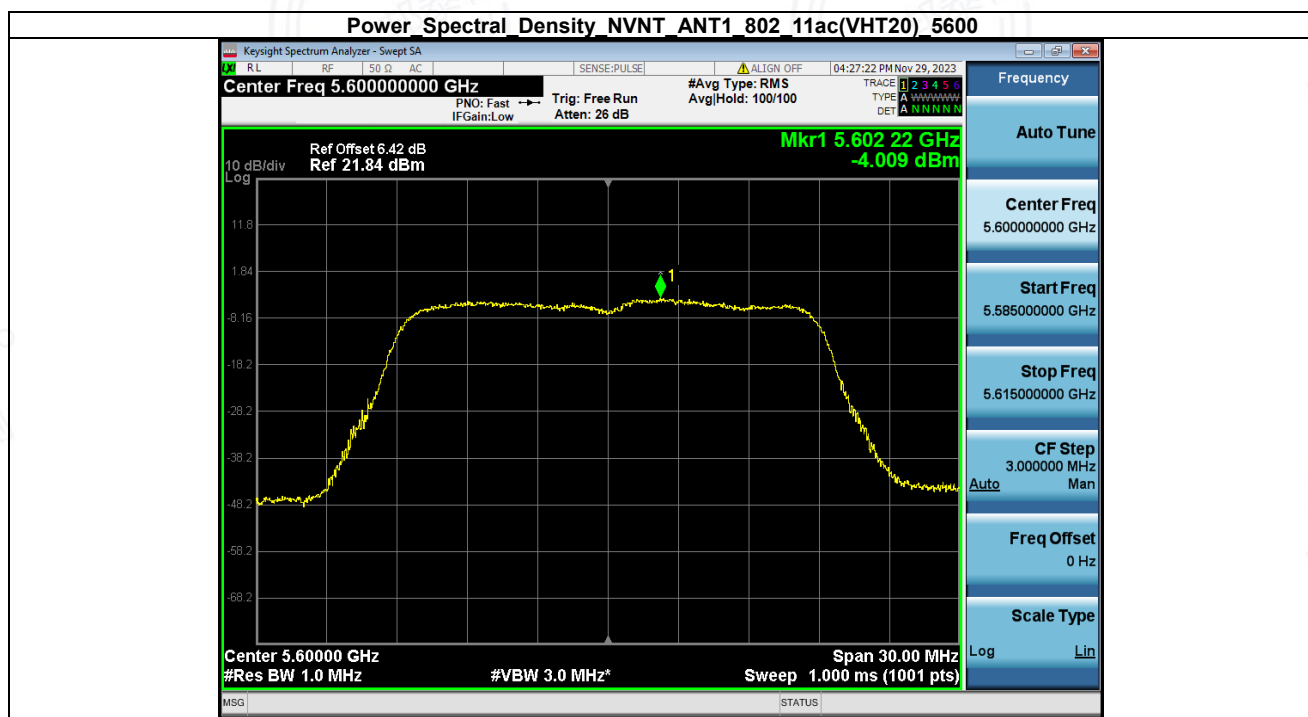
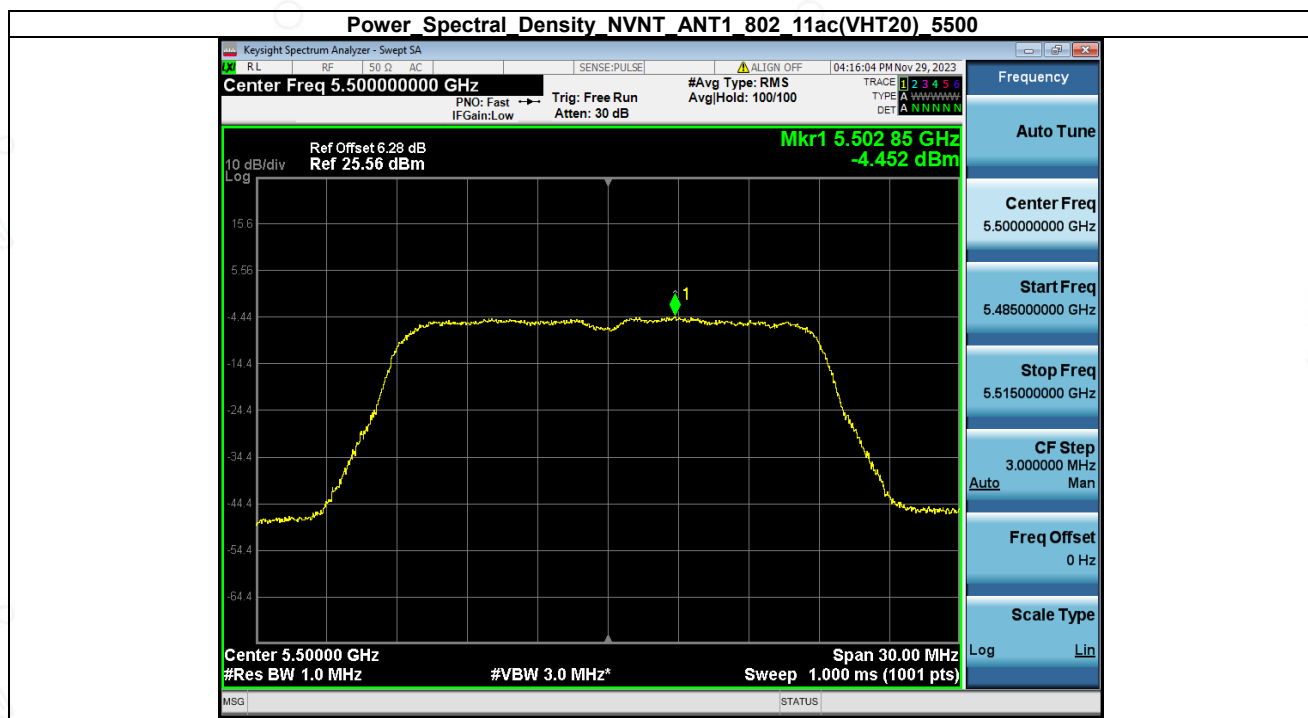


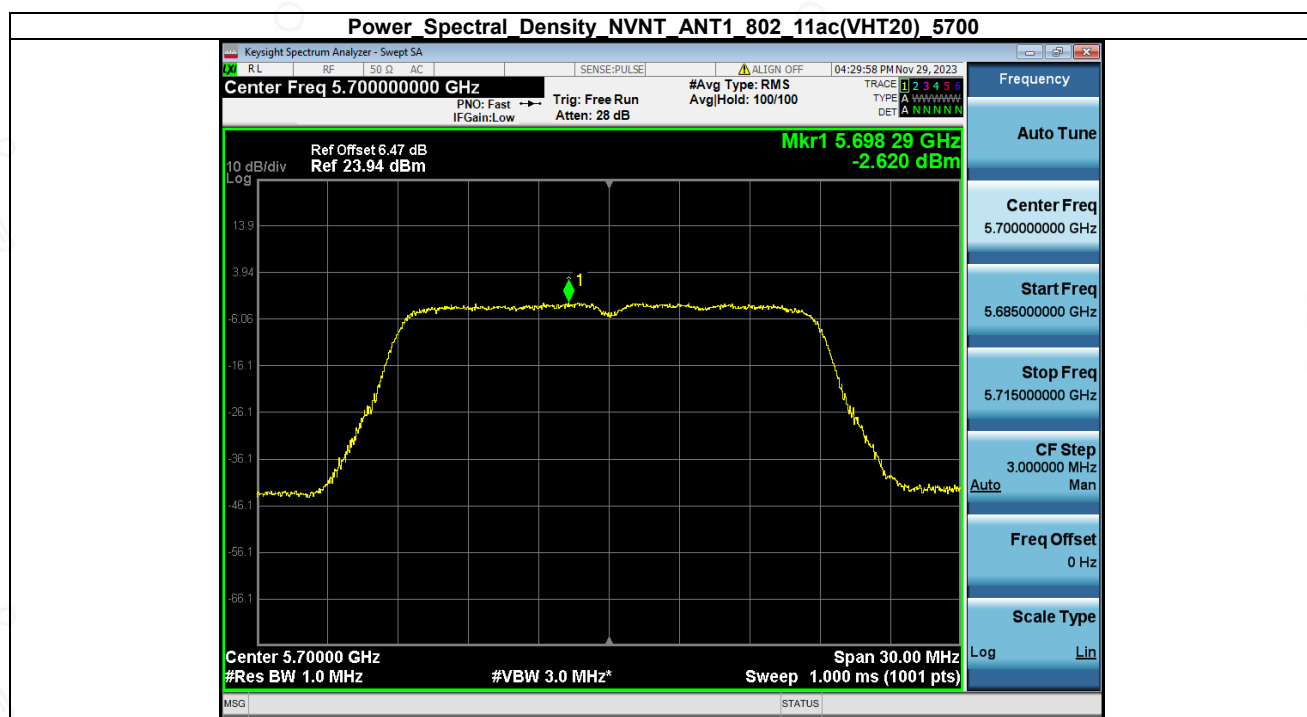
Power Spectral Density NVNT ANT1_802_11n(HT20)_5500





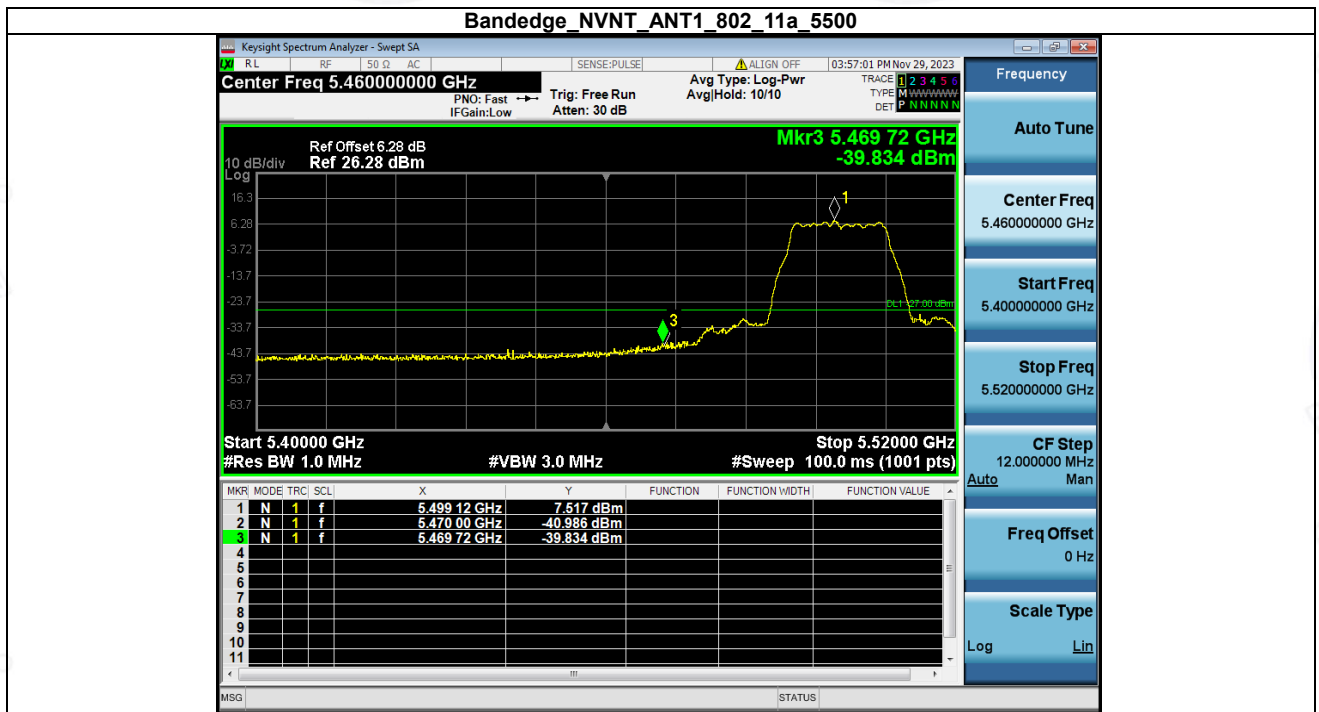






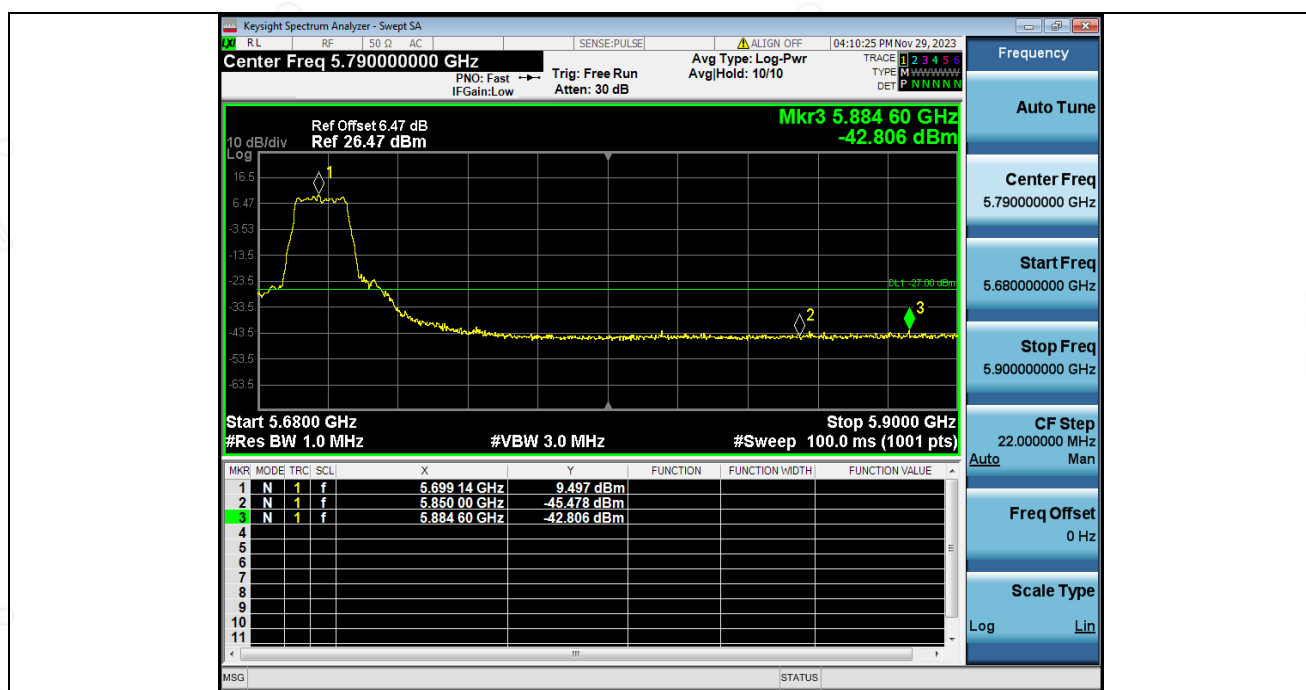
5. Bandedge

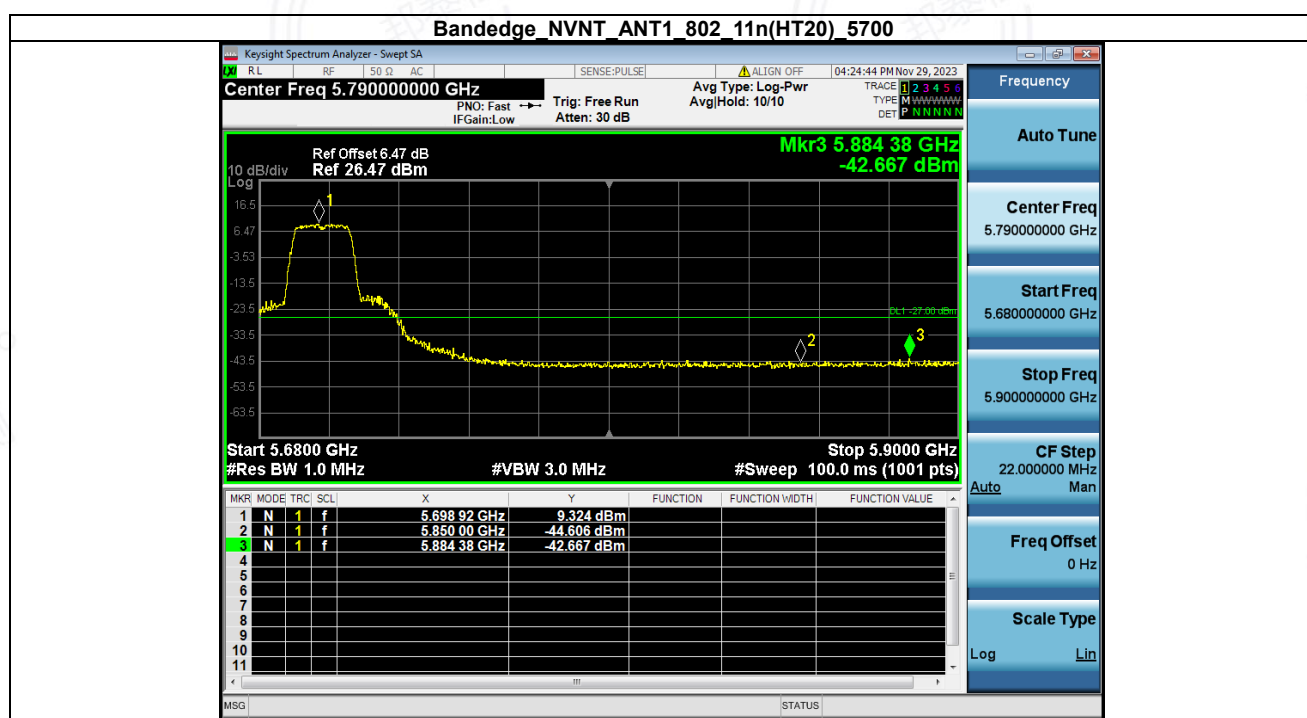
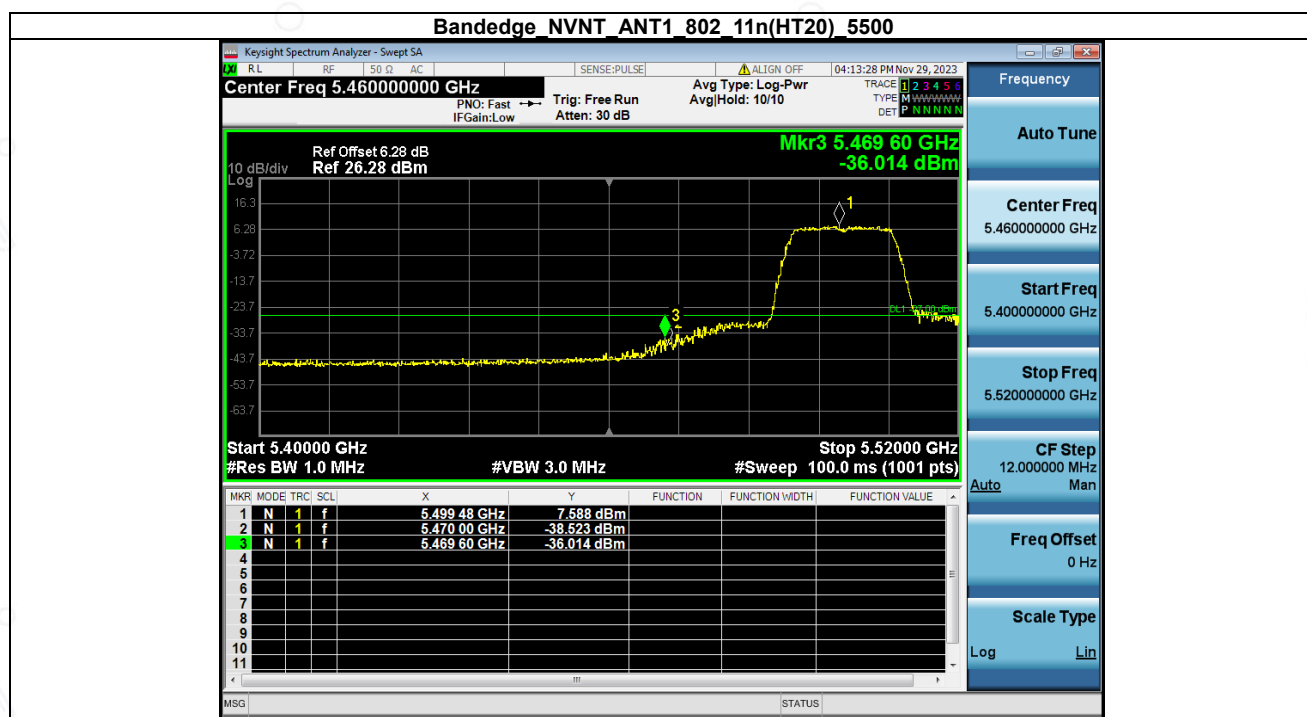
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500.00	5469.72	-39.83	-27	Pass
NVNT	ANT1	802.11a	5700.00	5884.60	-42.81	-27	Pass
NVNT	ANT1	802.11n(HT20)	5500.00	5469.60	-36.01	-27	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	5884.38	-42.67	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5500.00	5469.36	-39.73	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	5878.22	-43.55	-27	Pass

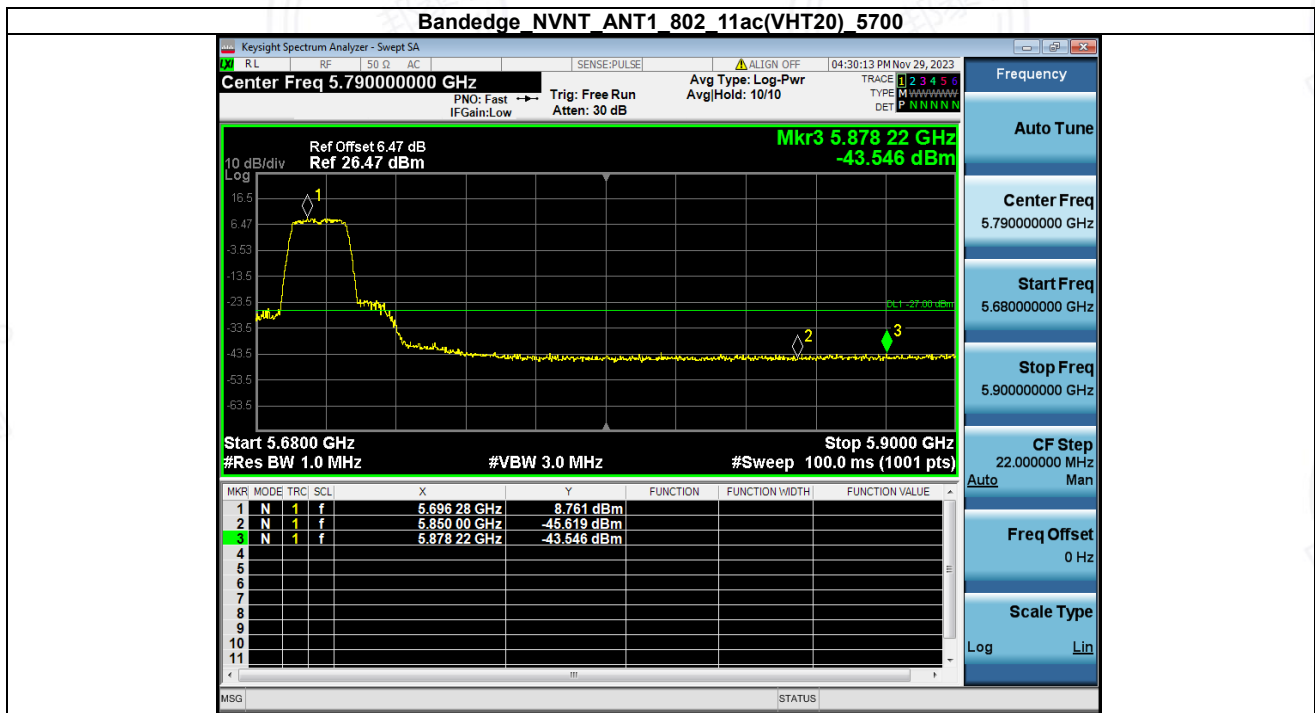
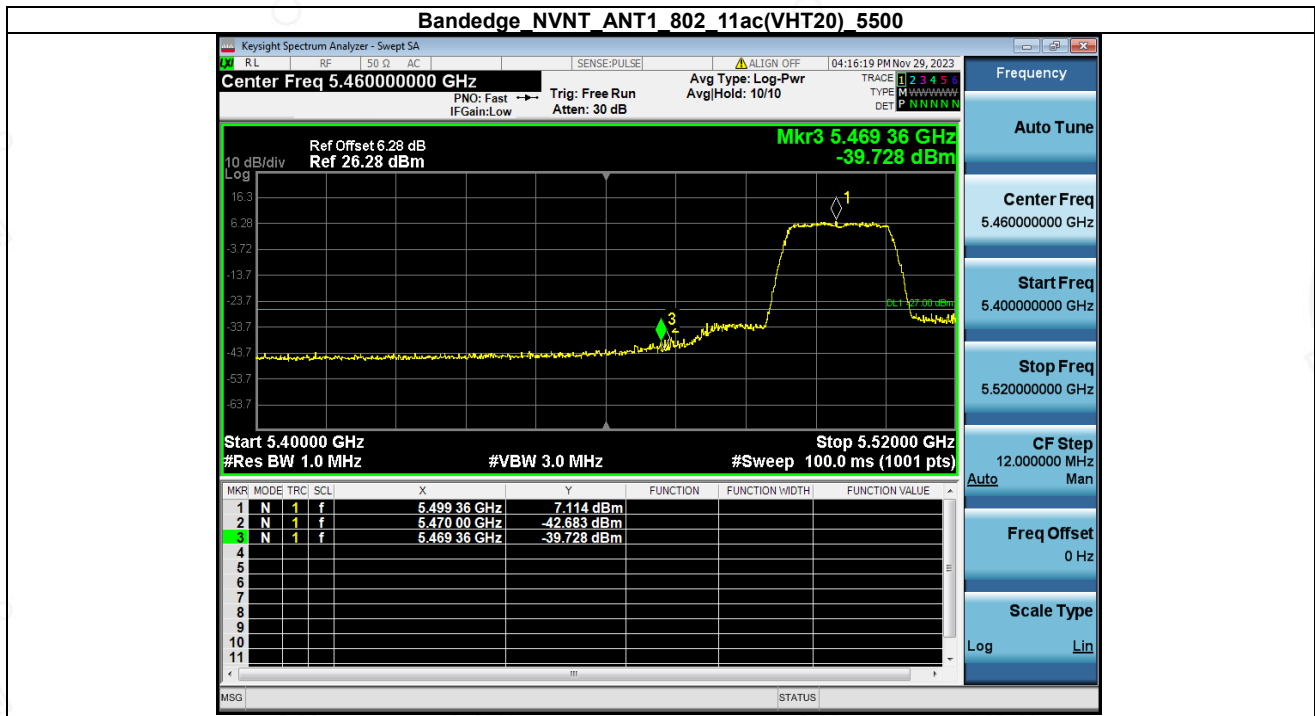


Bandedge_NVNT_ANT1_802_11a_5700



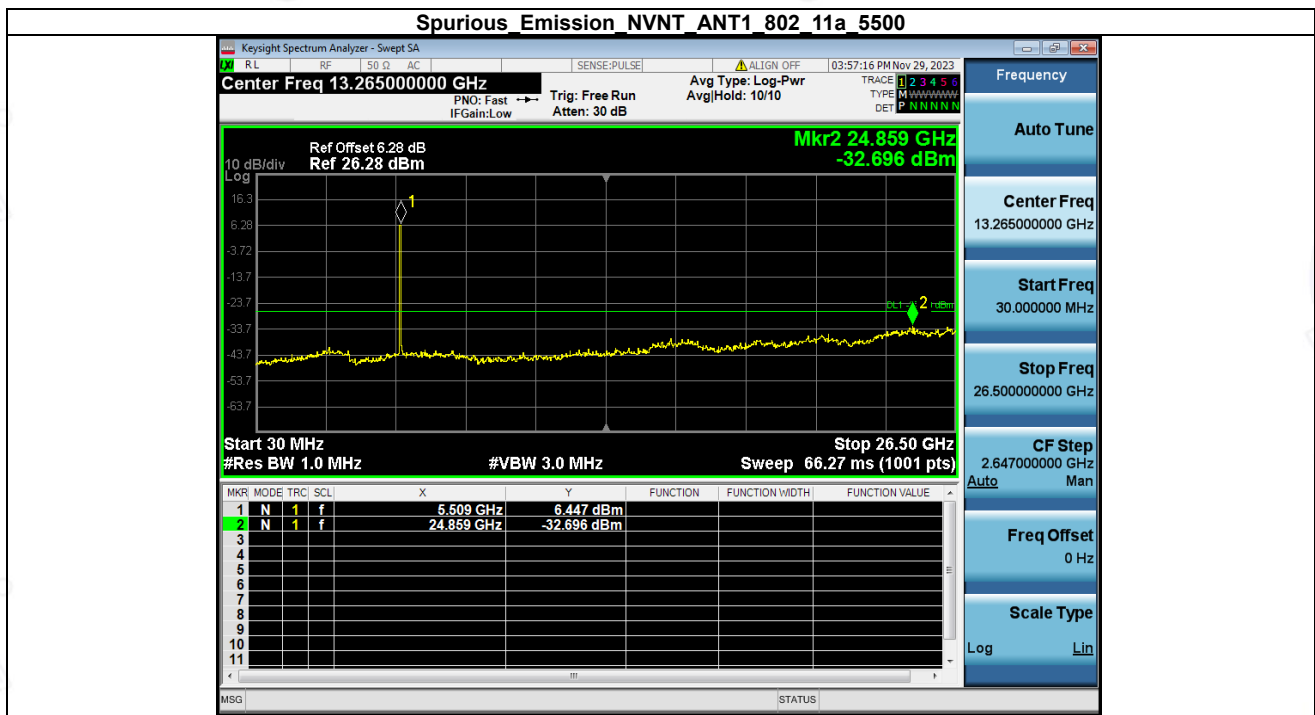






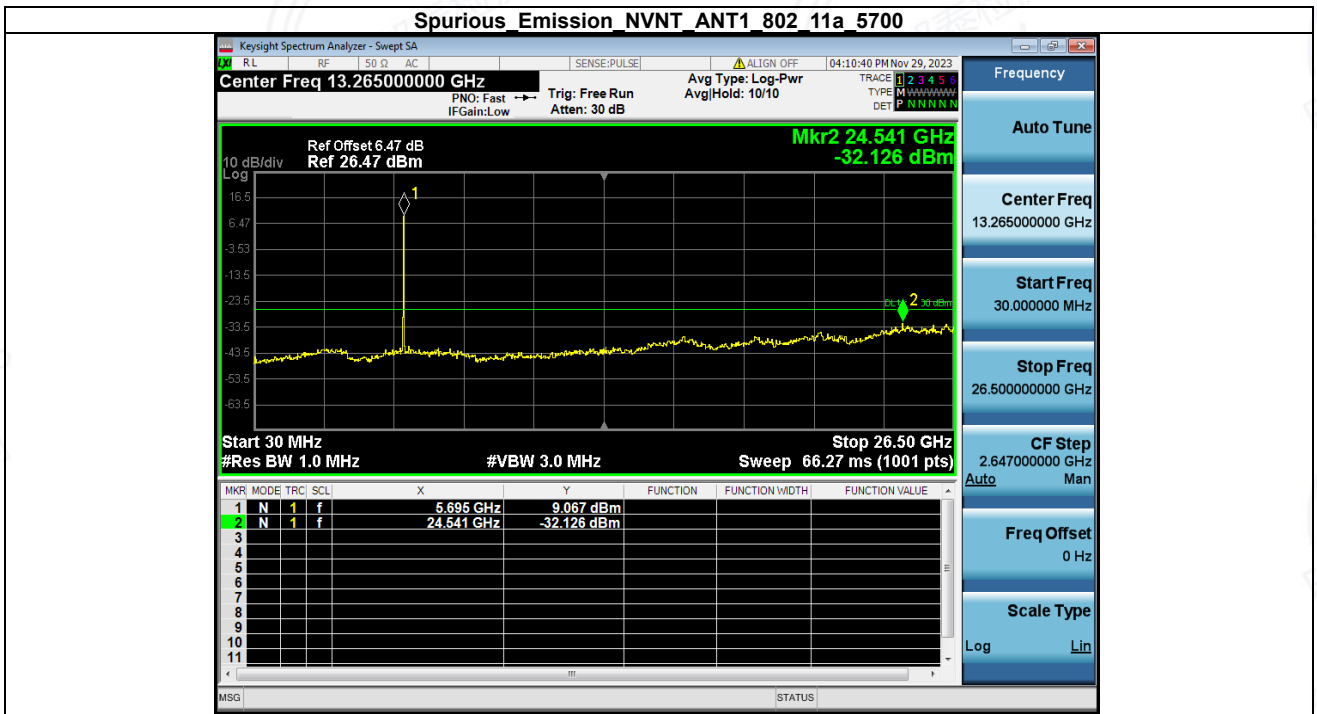
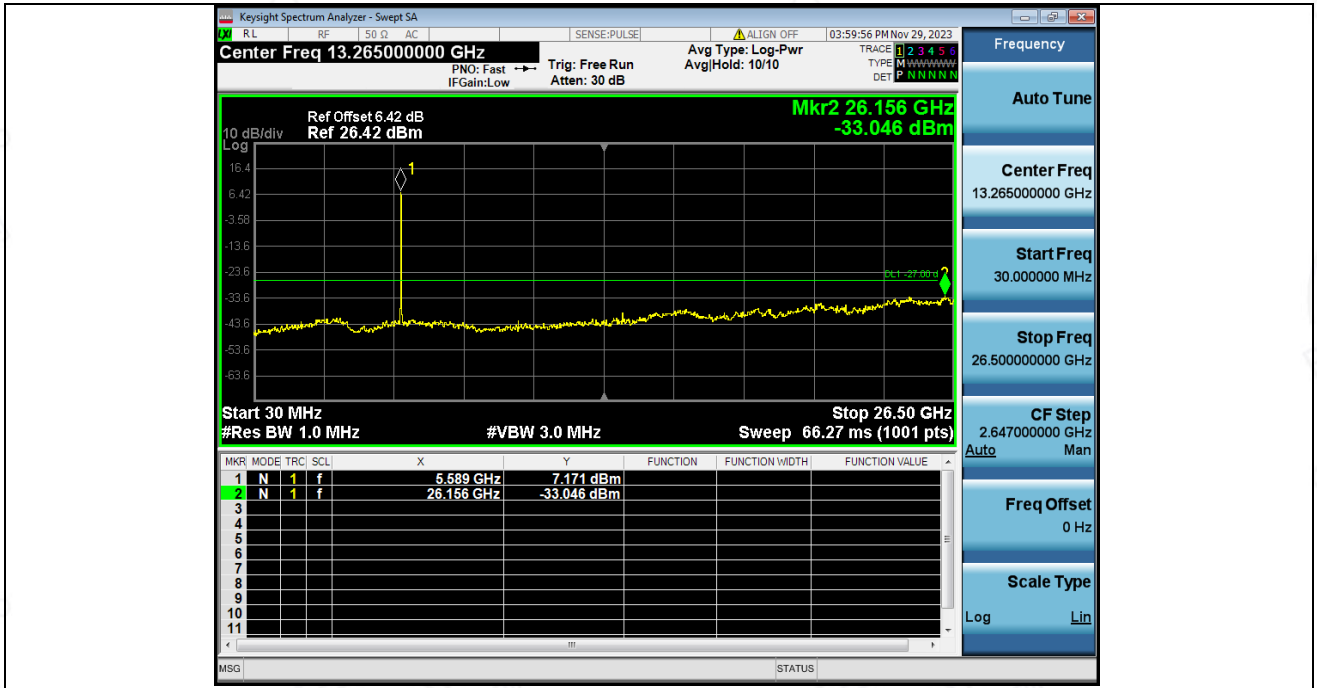
6. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark Frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5500.00	24858.86	-32.70	-27	Pass
NVNT	ANT1	802.11a	5600.00	26155.89	-33.05	-27	Pass
NVNT	ANT1	802.11a	5700.00	24541.22	-32.13	-27	Pass
NVNT	ANT1	802.11n(HT20)	5500.00	26208.83	-32.55	-27	Pass
NVNT	ANT1	802.11n(HT20)	5600.00	24779.45	-33.04	-27	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	26288.24	-32.69	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5500.00	26208.83	-32.94	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5600.00	26235.30	-31.36	-27	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	26261.77	-32.16	-27	Pass



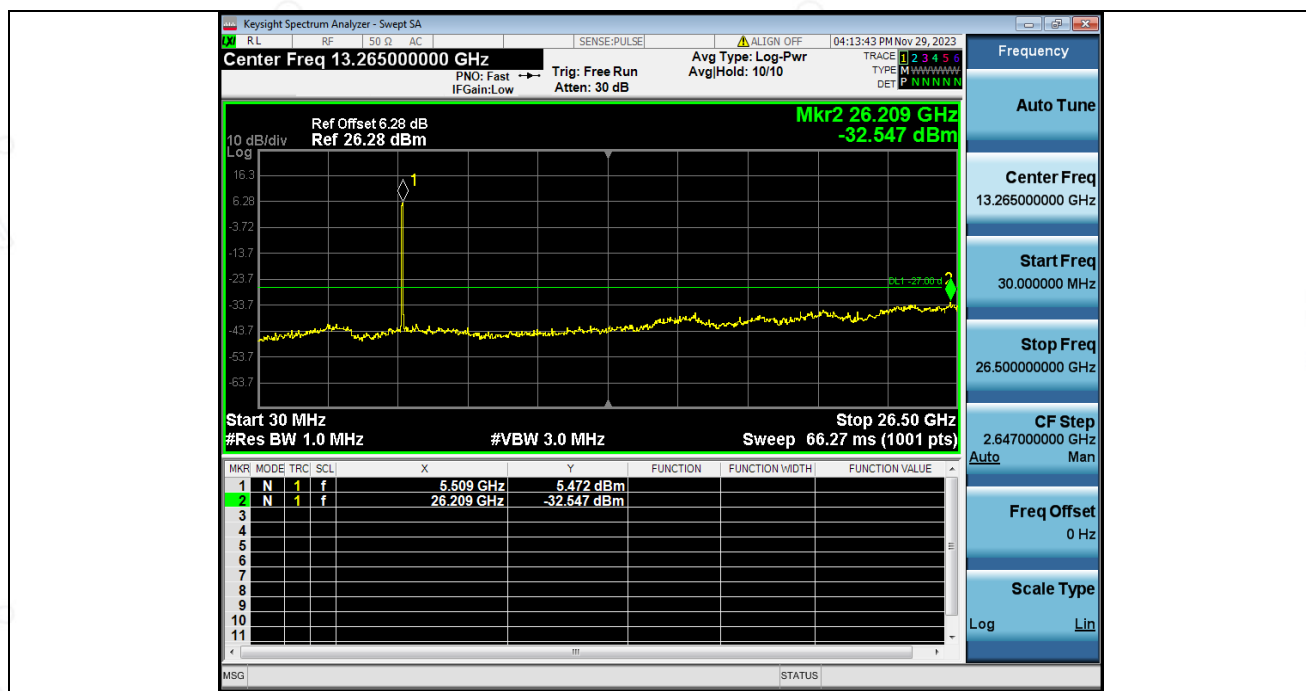
Spurious Emission_NVNT_ANT1_802_11a_5600

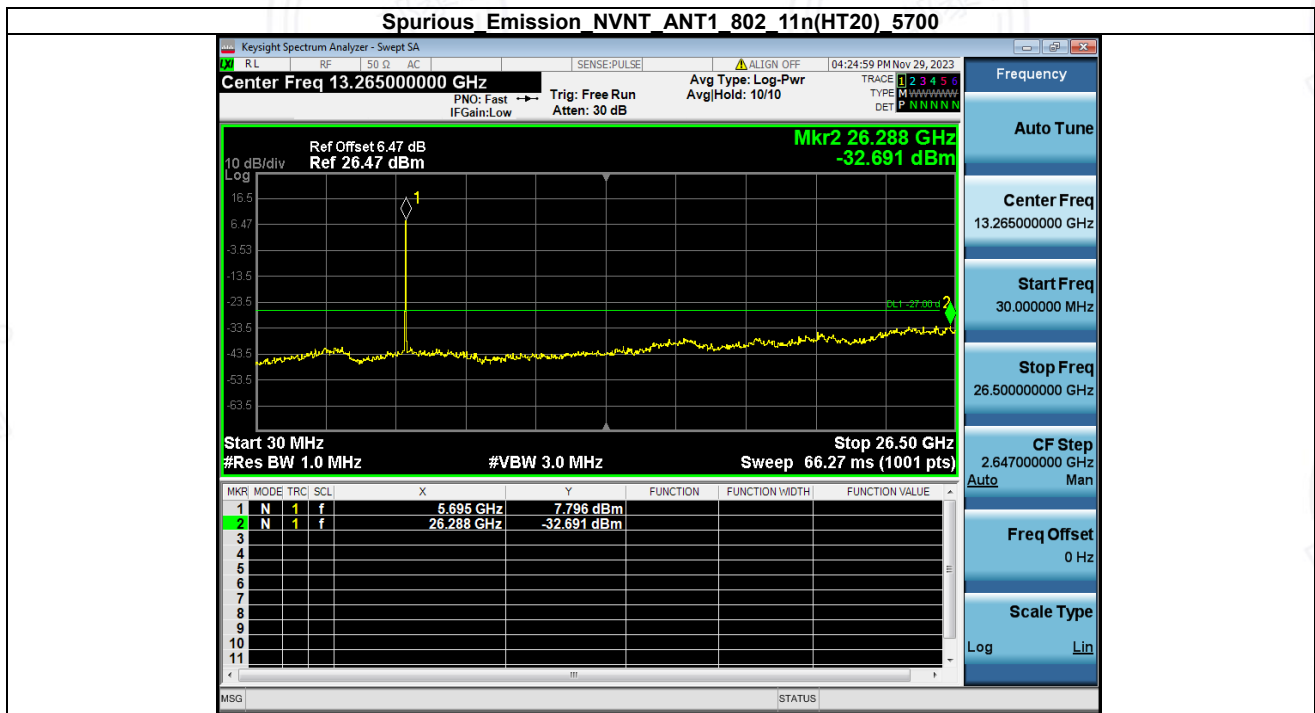
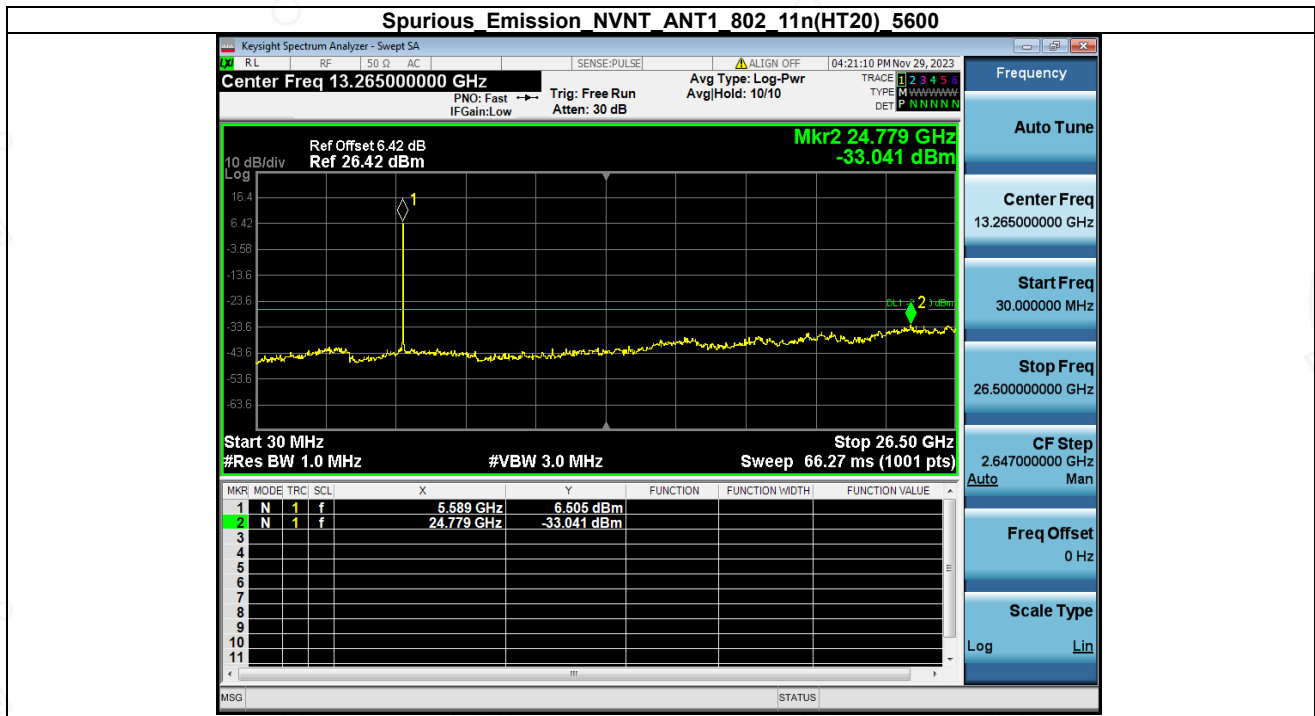


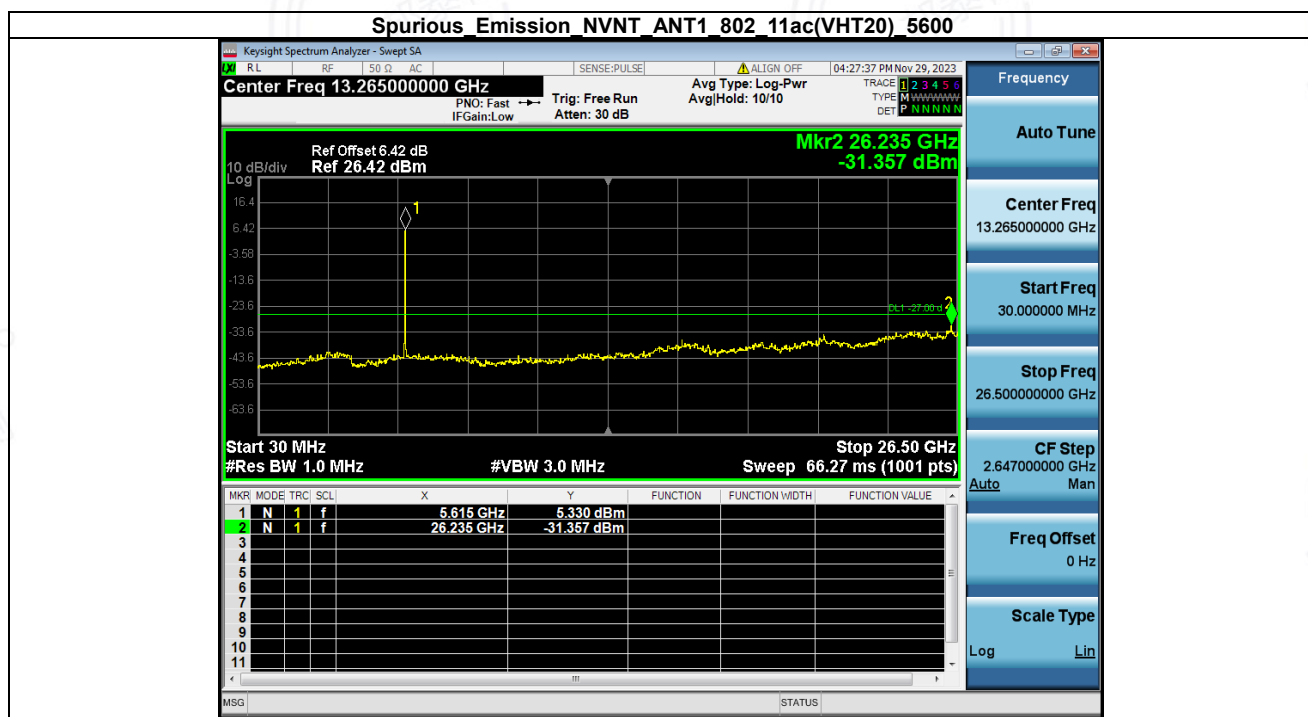
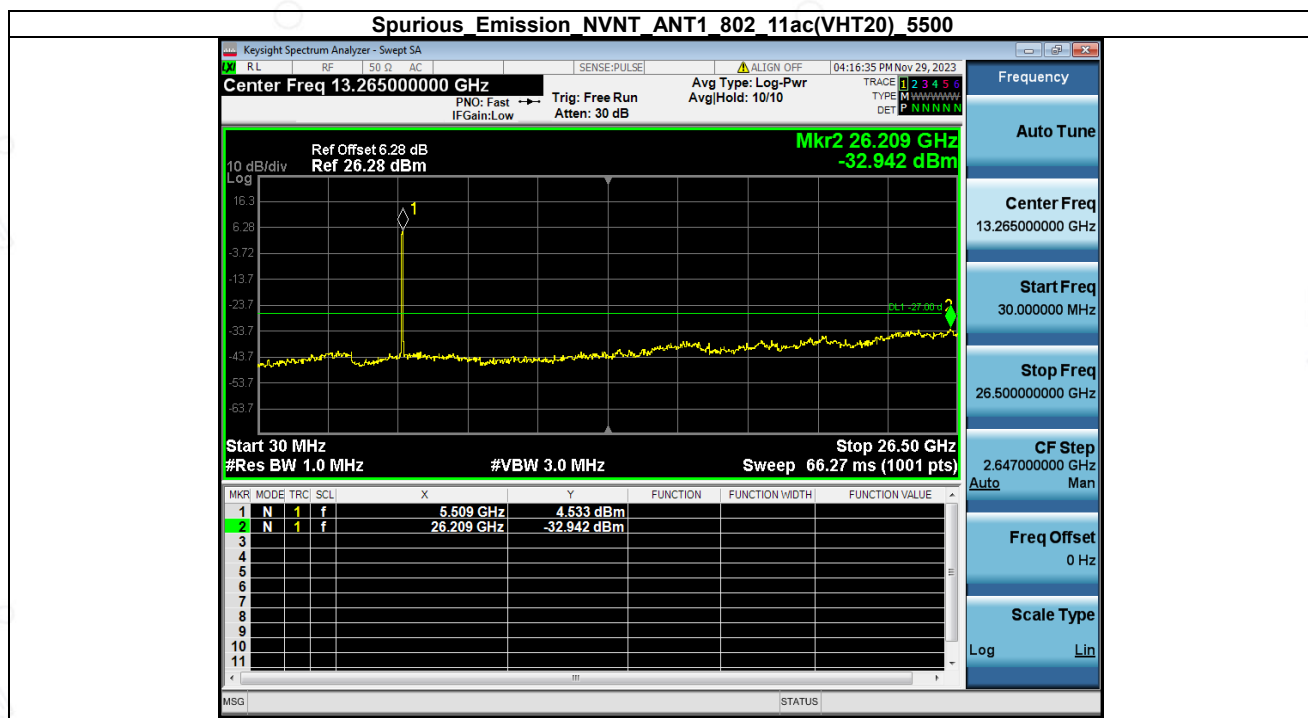


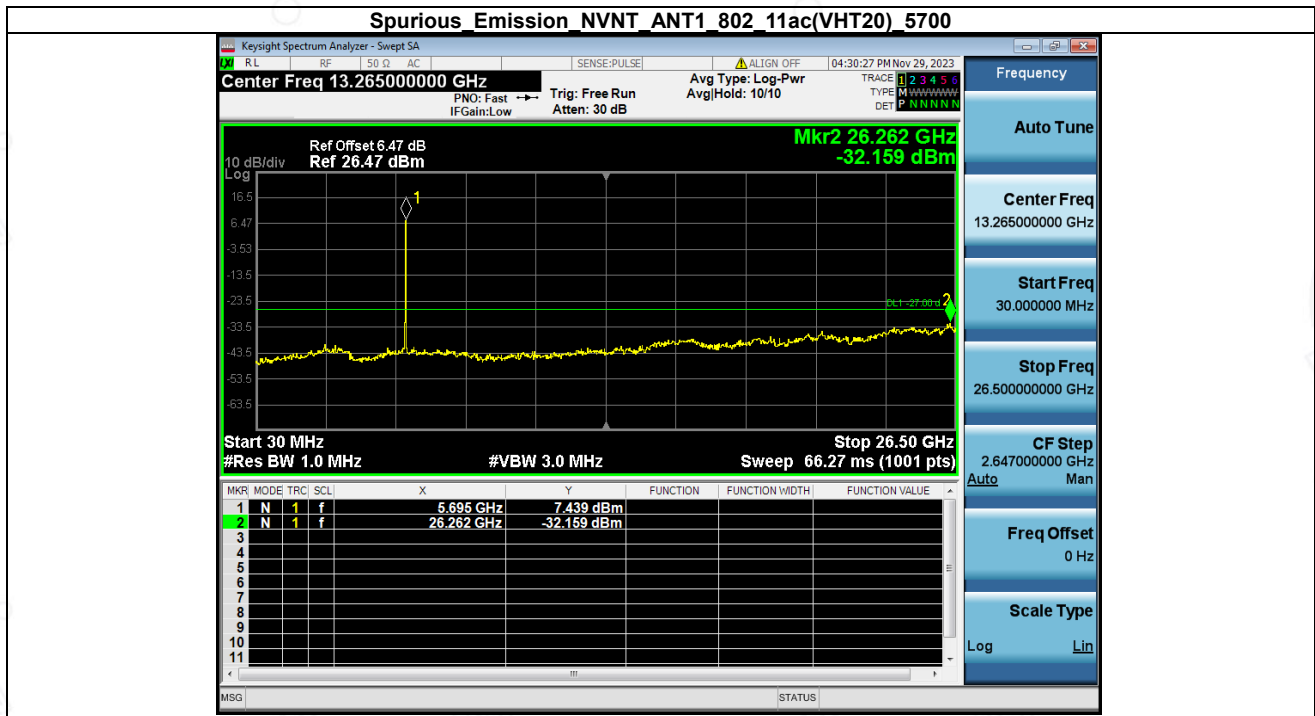
Spurious Emission_NVNT_ANT1_802_11n(HT20)_5500





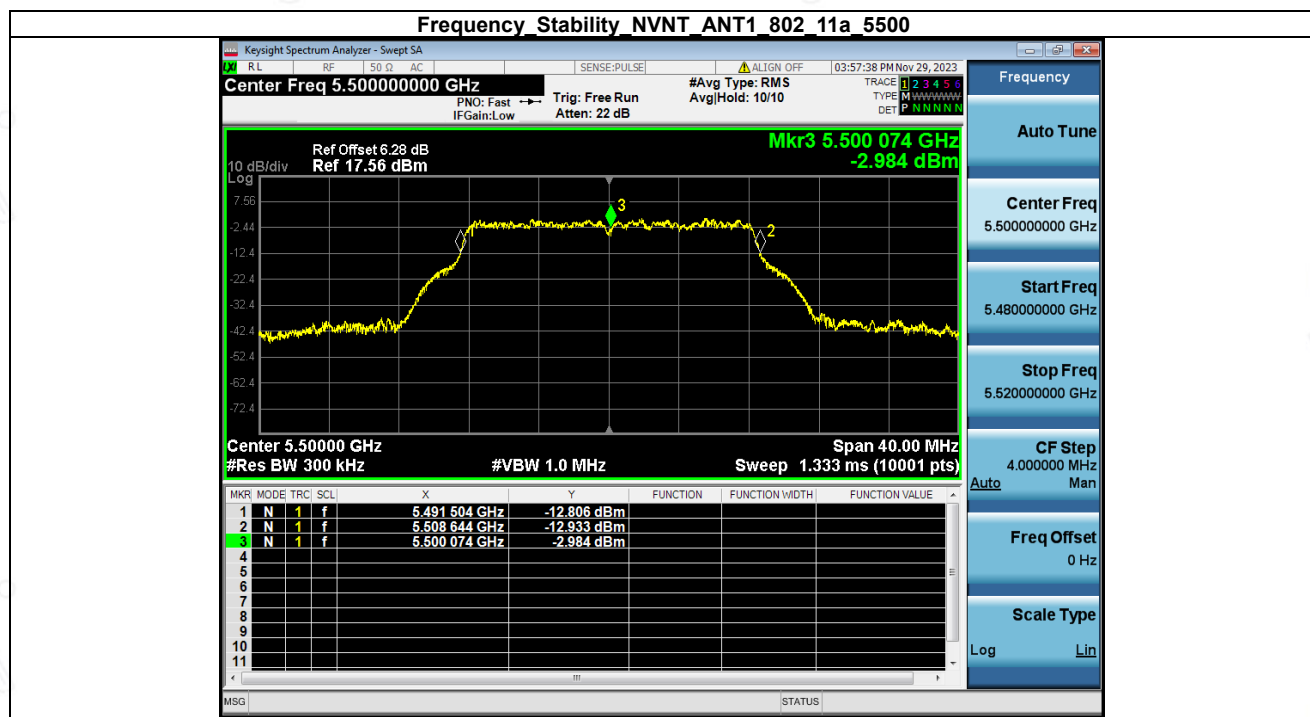


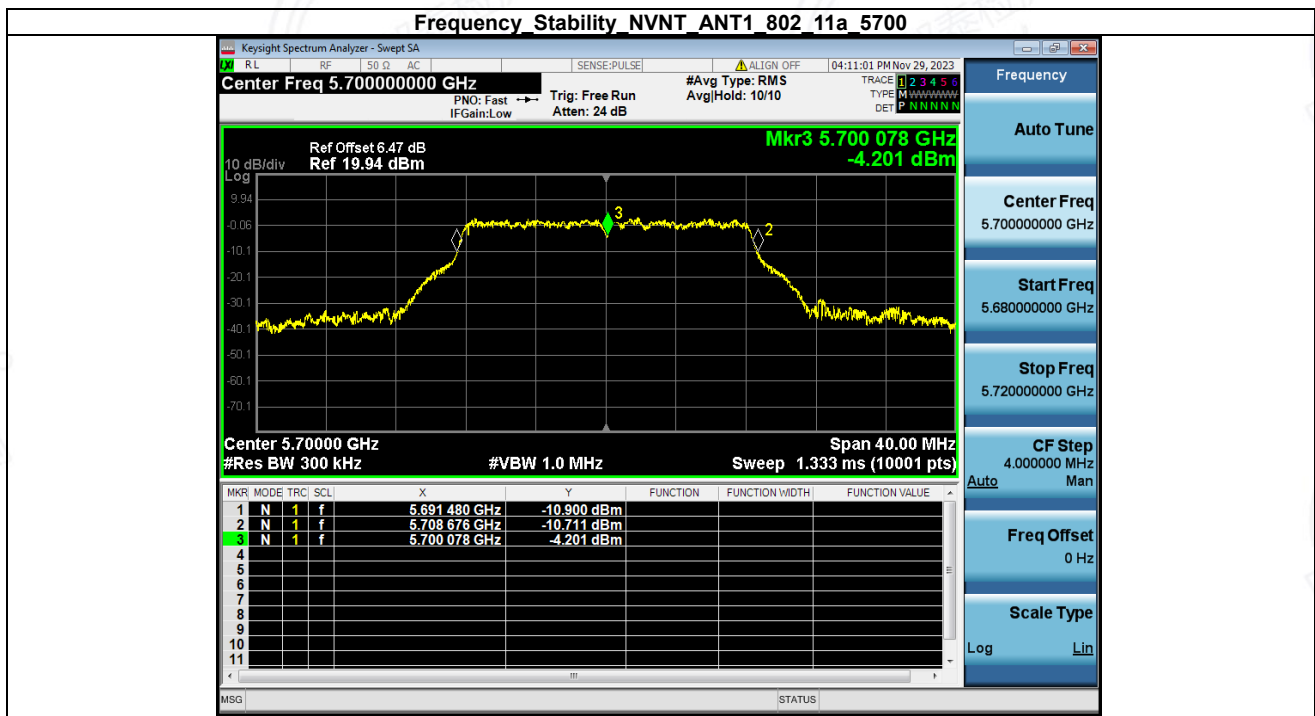
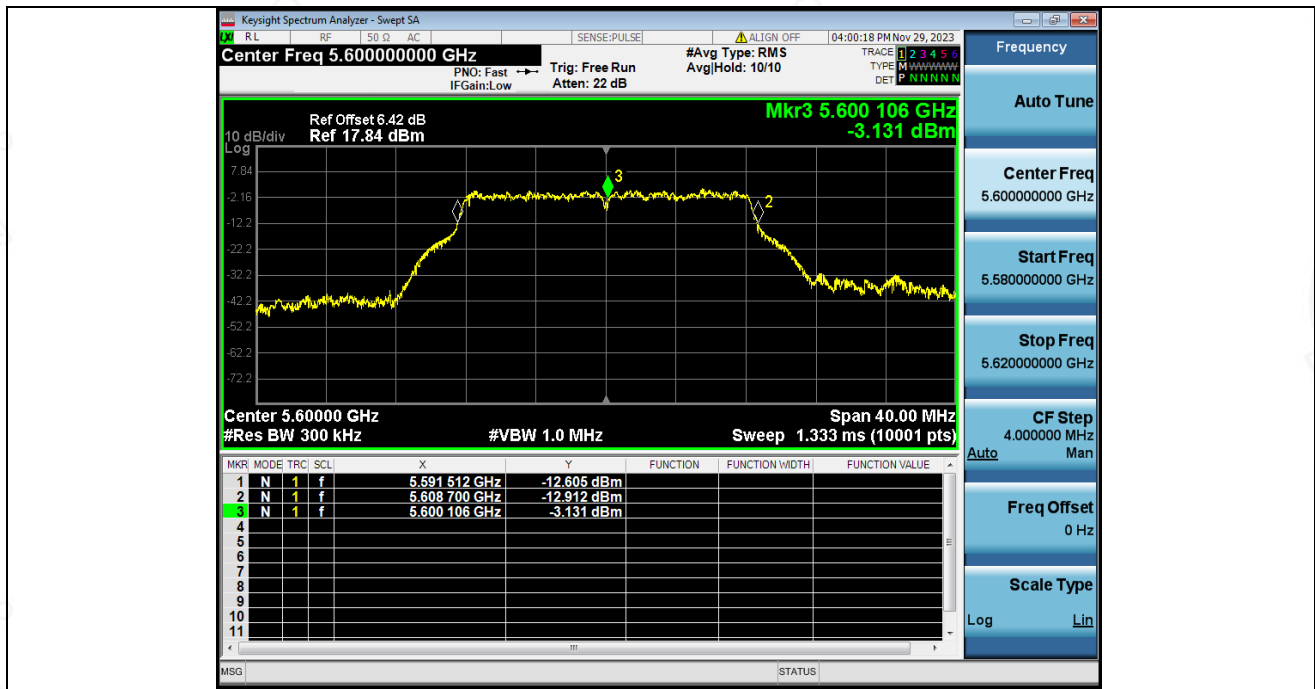




7. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5500.00	5500.074	5491.504	5508.644	5470~5725	Pass
NVNT	ANT1	802.11a	5600.00	5600.106	5591.512	5608.700	5470~5725	Pass
NVNT	ANT1	802.11a	5700.00	5700.078	5691.480	5708.676	5470~5725	Pass
NVNT	ANT1	802.11n(HT20)	5500.00	5500.036	5490.880	5509.192	5470~5725	Pass
NVNT	ANT1	802.11n(HT20)	5600.00	5600.062	5590.888	5609.236	5470~5725	Pass
NVNT	ANT1	802.11n(HT20)	5700.00	5700.026	5690.840	5709.212	5470~5725	Pass
NVNT	ANT1	802.11ac(VHT20)	5500.00	5500.026	5490.868	5509.184	5470~5725	Pass
NVNT	ANT1	802.11ac(VHT20)	5600.00	5600.052	5590.872	5609.232	5470~5725	Pass
NVNT	ANT1	802.11ac(VHT20)	5700.00	5700.042	5690.904	5709.180	5470~5725	Pass





Frequency Stability NVNT ANT1 802 11n(HT20) 5500



