

Appendix

Test Data

for BTEK241111036A01E04

Start date	2024/12/3	Finish date	2024/12/3
Temperature	22.5℃	Humidity	49%
RF specifications	5.2G WIFI	Test Engineer	Zora



Table of Contents

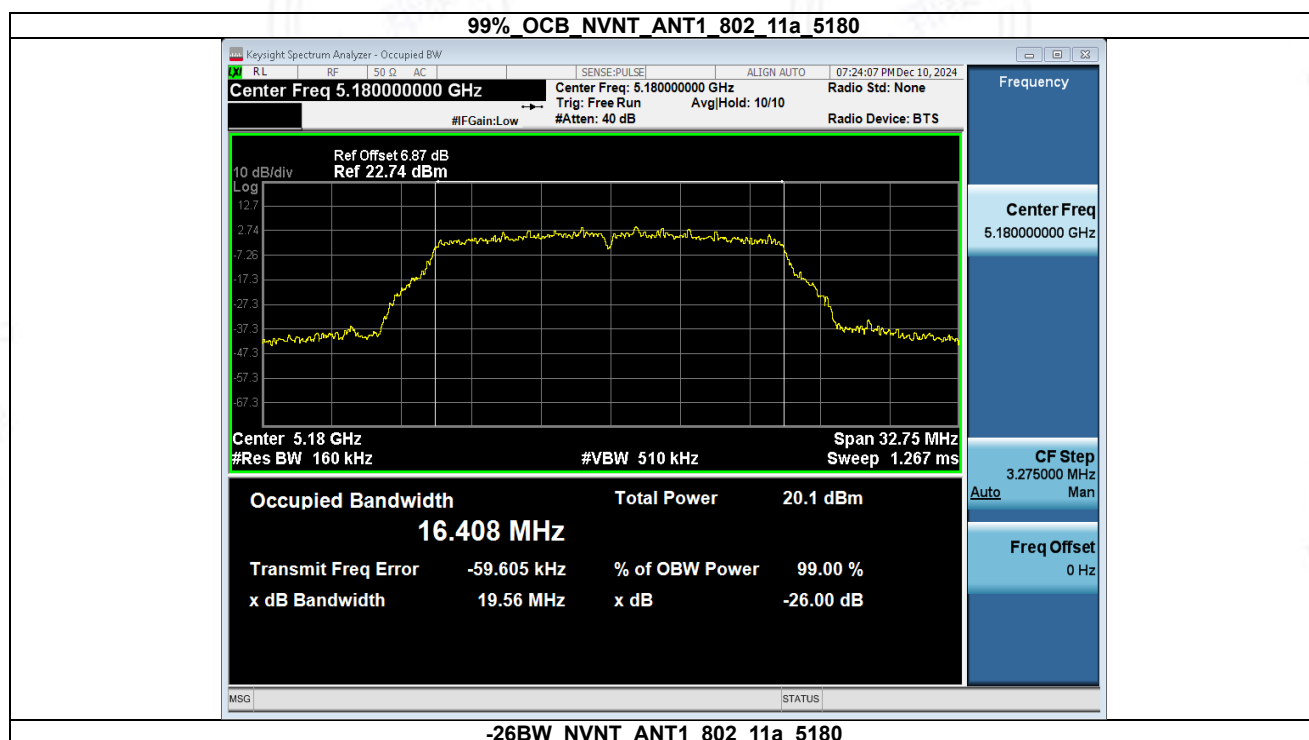
1. -26dB and 99% Emission Bandwidth	3
2. Duty Cycle.....	32
3. Maximum Conducted Output Power	47
4. Power Spectral Density.....	62
5. Bandedge.....	82
6. Spurious Emission.....	94
7. Frequency Stability	109

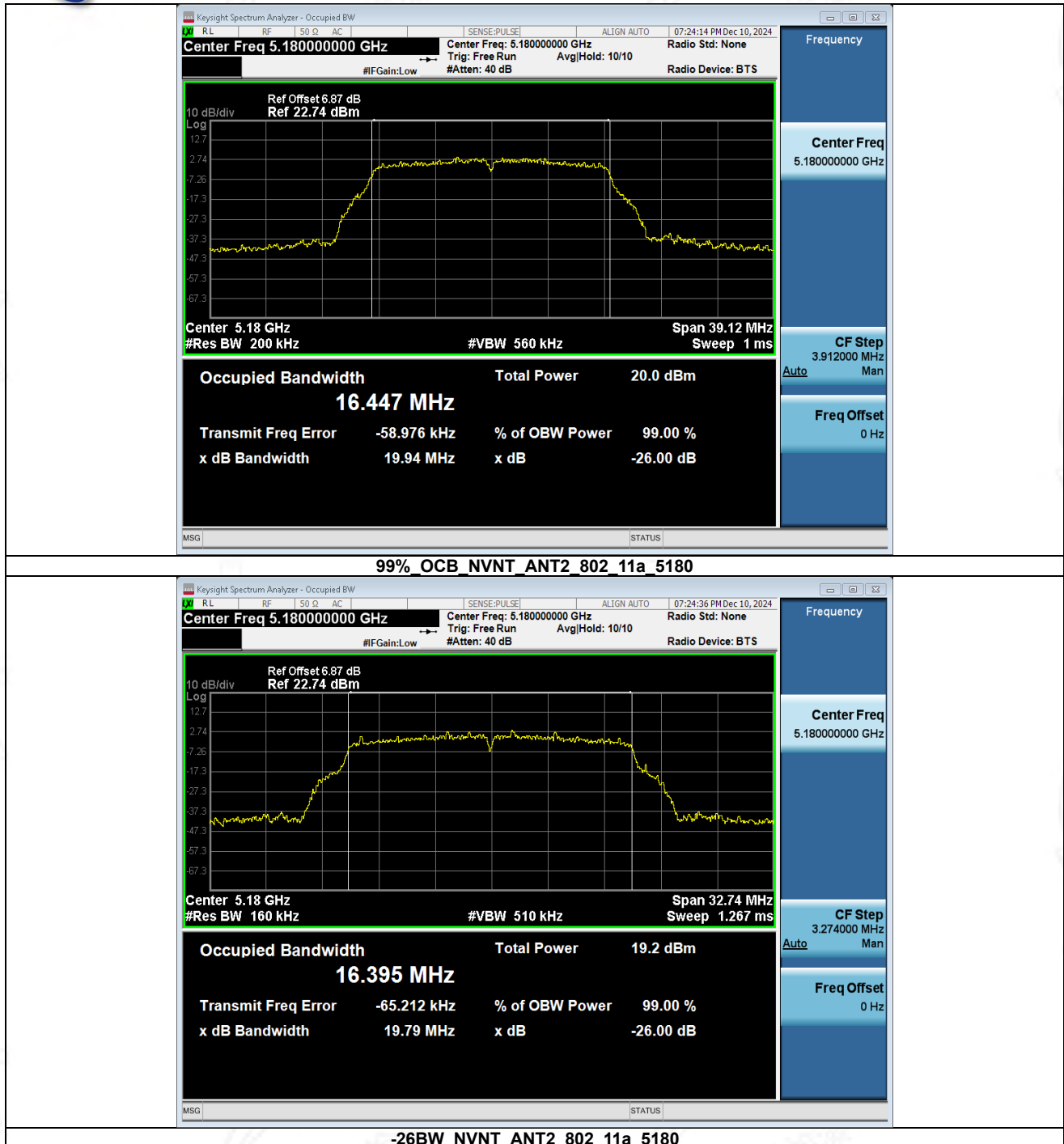


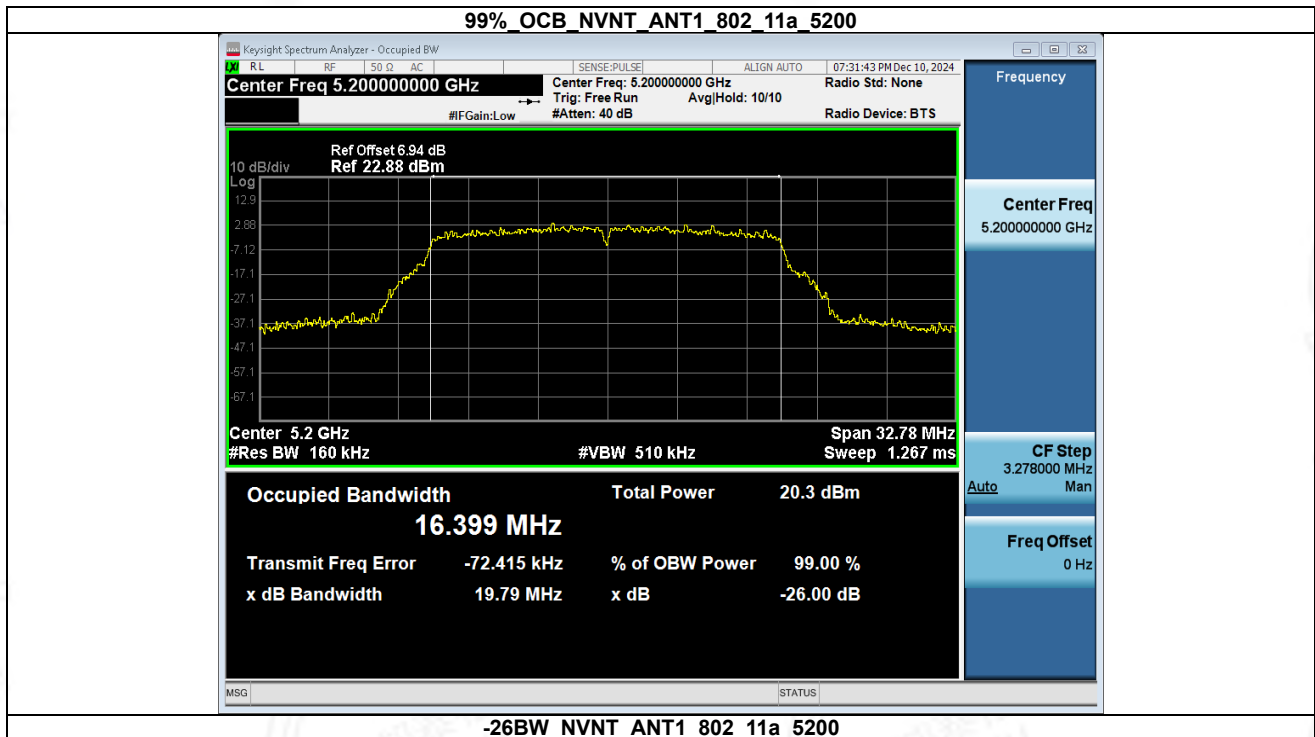
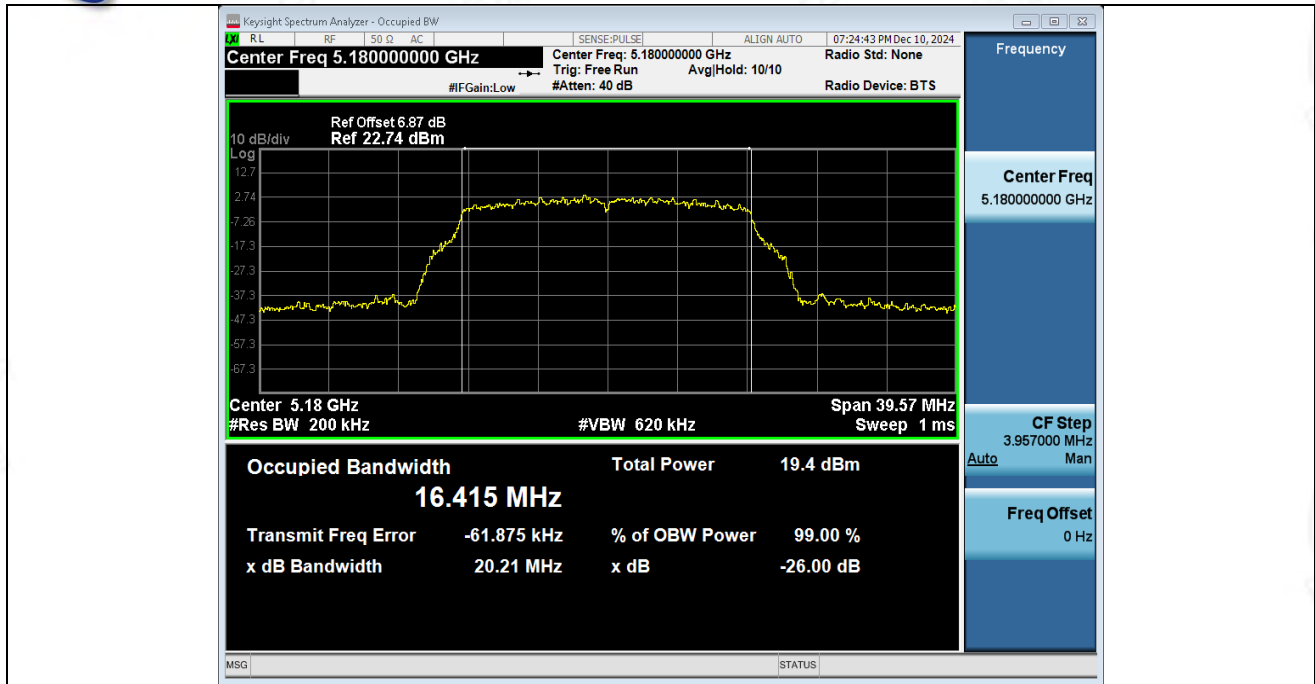
BTEK241111036A01-T05_7663 FCC_5.2G_WIFI (Part15.407) Test Data

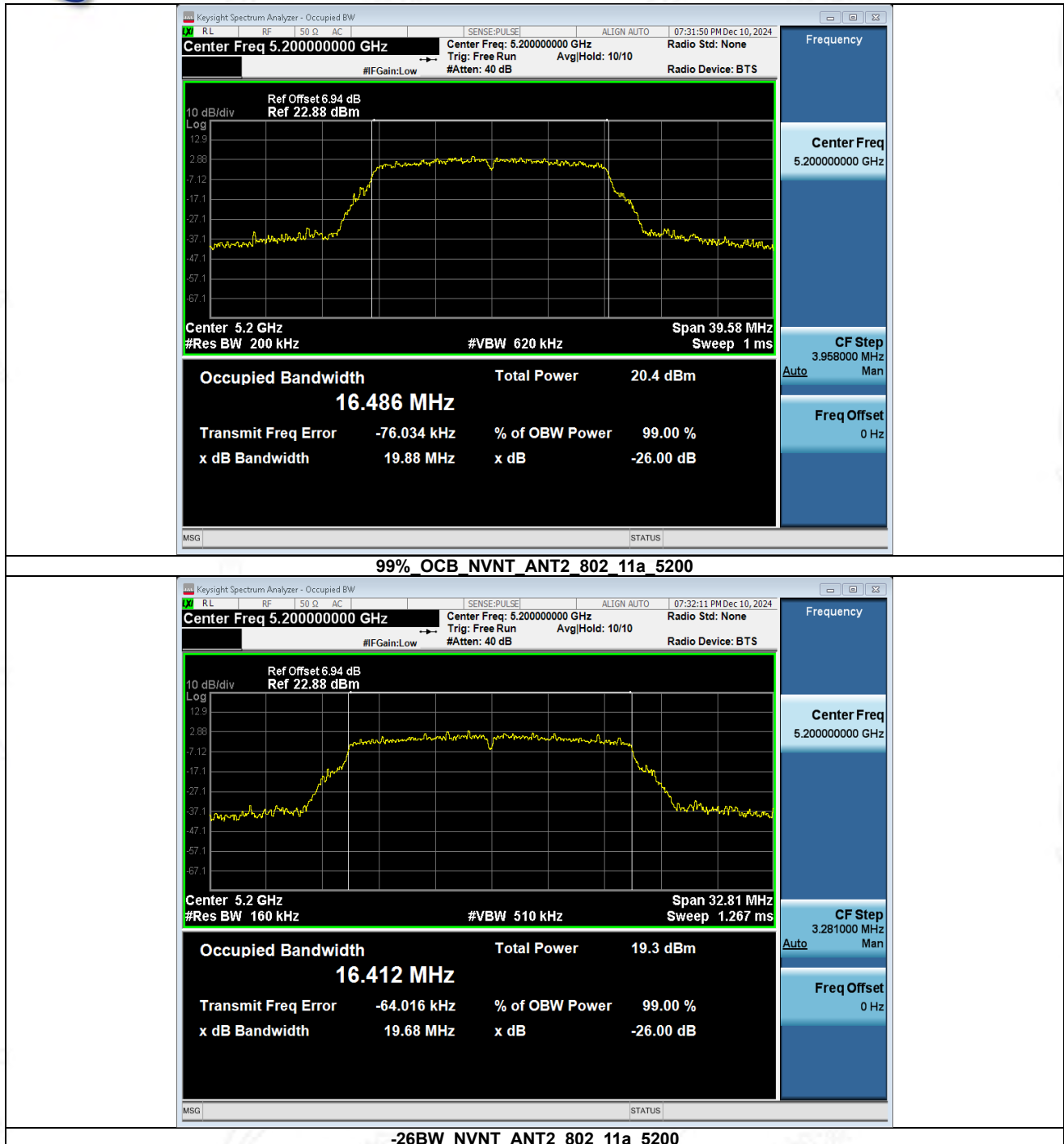
1. -26dB and 99% Emission Bandwidth

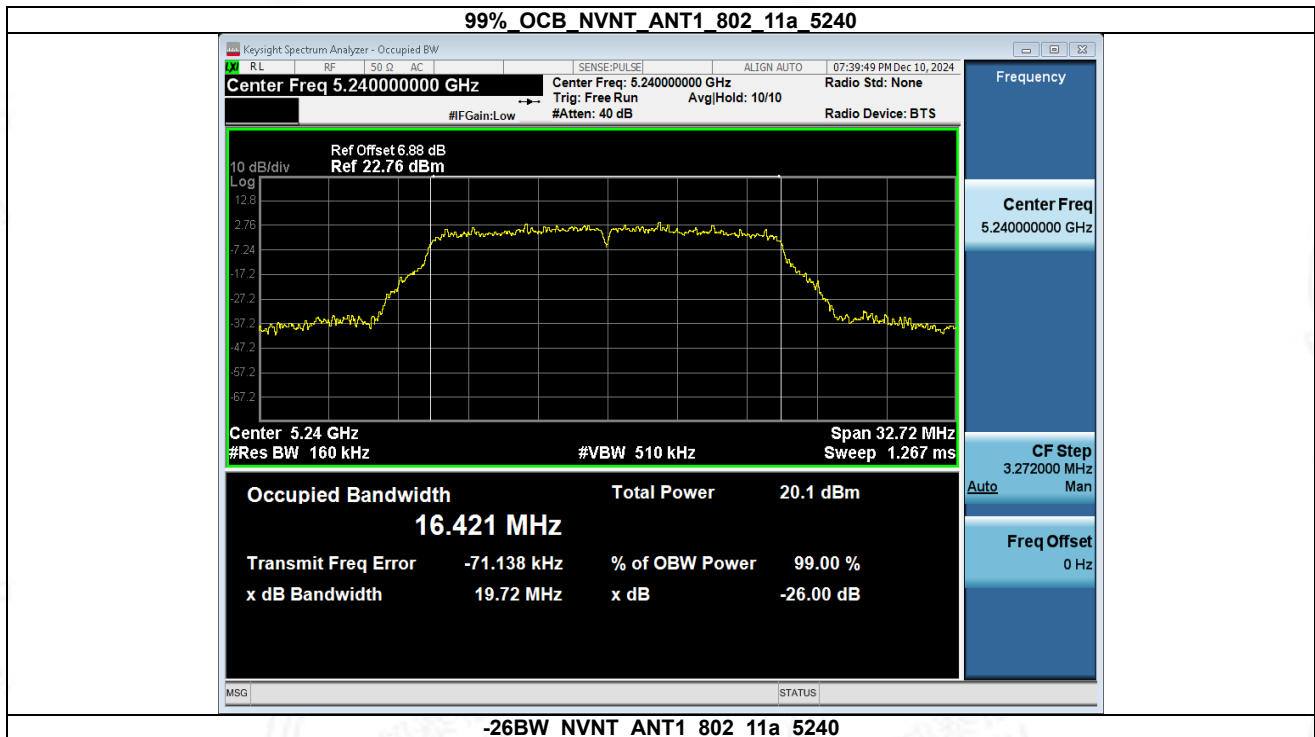
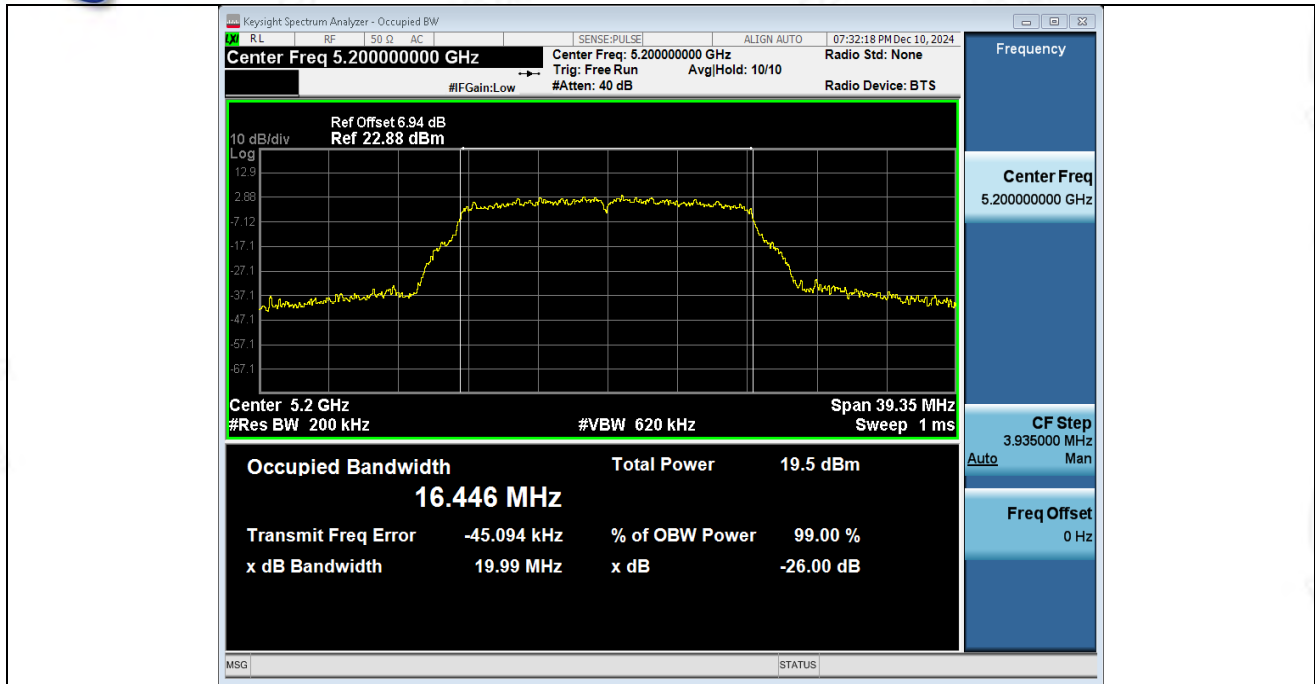
Condition	Antenna	Modulation	Frequency(MHz)	26dB Emission Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5180.00	19.94	16.41
NVNT	ANT2	802.11a	5180.00	20.21	16.39
NVNT	ANT1	802.11a	5200.00	19.88	16.40
NVNT	ANT2	802.11a	5200.00	19.99	16.41
NVNT	ANT1	802.11a	5240.00	20.06	16.42
NVNT	ANT2	802.11a	5240.00	19.88	16.38
NVNT	ANT1	802.11n(HT20)	5180.00	20.73	17.68
NVNT	ANT2	802.11n(HT20)	5180.00	20.22	17.58
NVNT	ANT1	802.11n(HT20)	5200.00	20.05	17.54
NVNT	ANT2	802.11n(HT20)	5200.00	20.19	17.59
NVNT	ANT1	802.11n(HT20)	5240.00	20.22	17.55
NVNT	ANT2	802.11n(HT20)	5240.00	20.13	17.57
NVNT	ANT1	802.11ac(VHT20)	5180.00	20.31	17.54
NVNT	ANT2	802.11ac(VHT20)	5180.00	20.09	17.58
NVNT	ANT1	802.11ac(VHT20)	5200.00	20.04	17.55
NVNT	ANT2	802.11ac(VHT20)	5200.00	20.18	17.56
NVNT	ANT1	802.11ac(VHT20)	5240.00	20.20	17.55
NVNT	ANT2	802.11ac(VHT20)	5240.00	19.84	17.58
NVNT	ANT1	802.11n(HT40)	5190.00	40.68	35.96
NVNT	ANT2	802.11n(HT40)	5190.00	40.19	35.98
NVNT	ANT1	802.11n(HT40)	5230.00	40.33	35.99
NVNT	ANT2	802.11n(HT40)	5230.00	40.35	36.03
NVNT	ANT1	802.11ac(VHT40)	5190.00	40.50	36.02
NVNT	ANT2	802.11ac(VHT40)	5190.00	39.60	36.01
NVNT	ANT1	802.11ac(VHT40)	5230.00	40.67	36.00
NVNT	ANT2	802.11ac(VHT40)	5230.00	40.28	35.98
NVNT	ANT1	802.11ac(VHT80)	5210.00	81.05	75.41
NVNT	ANT2	802.11ac(VHT80)	5210.00	80.29	75.30

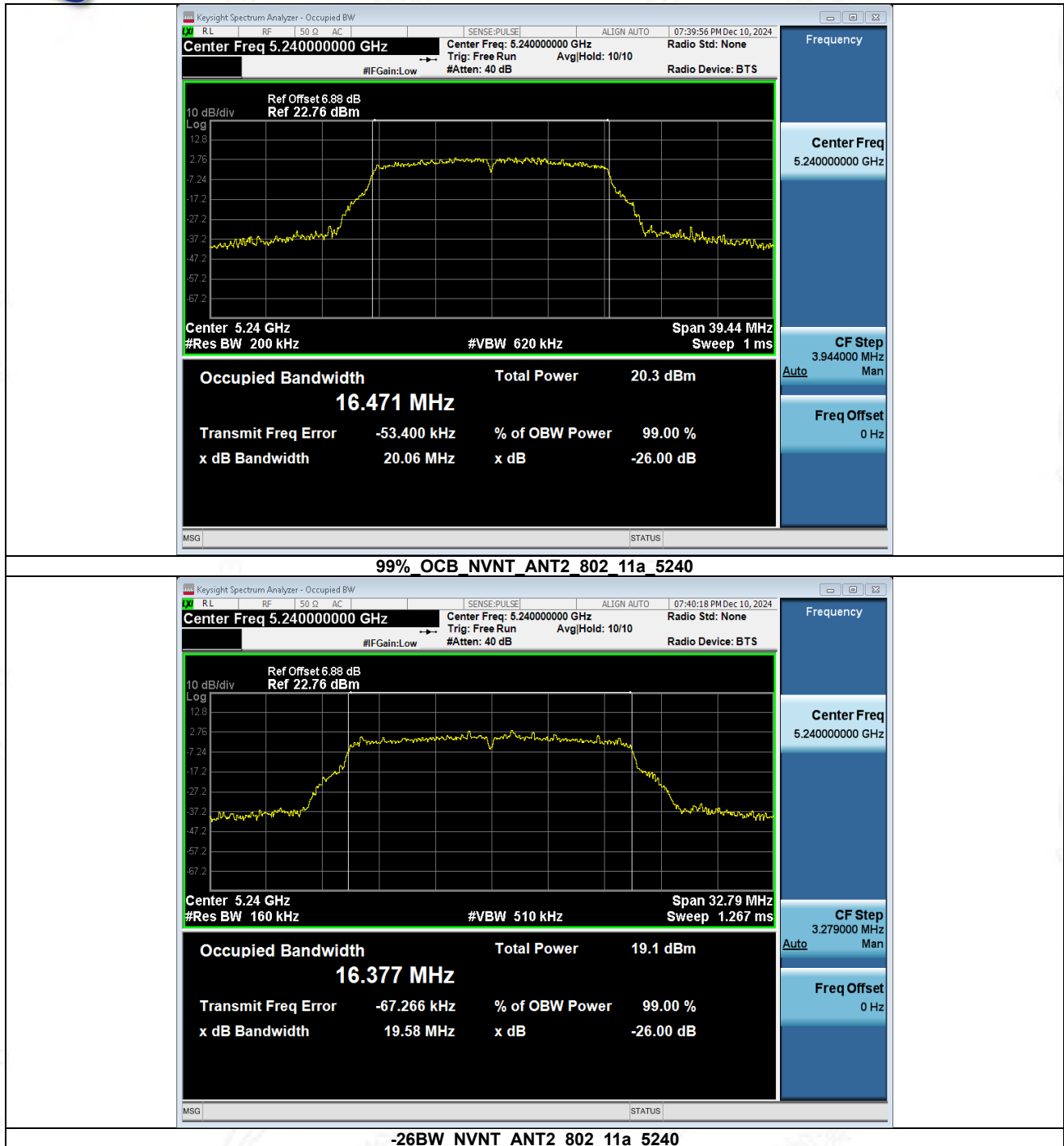


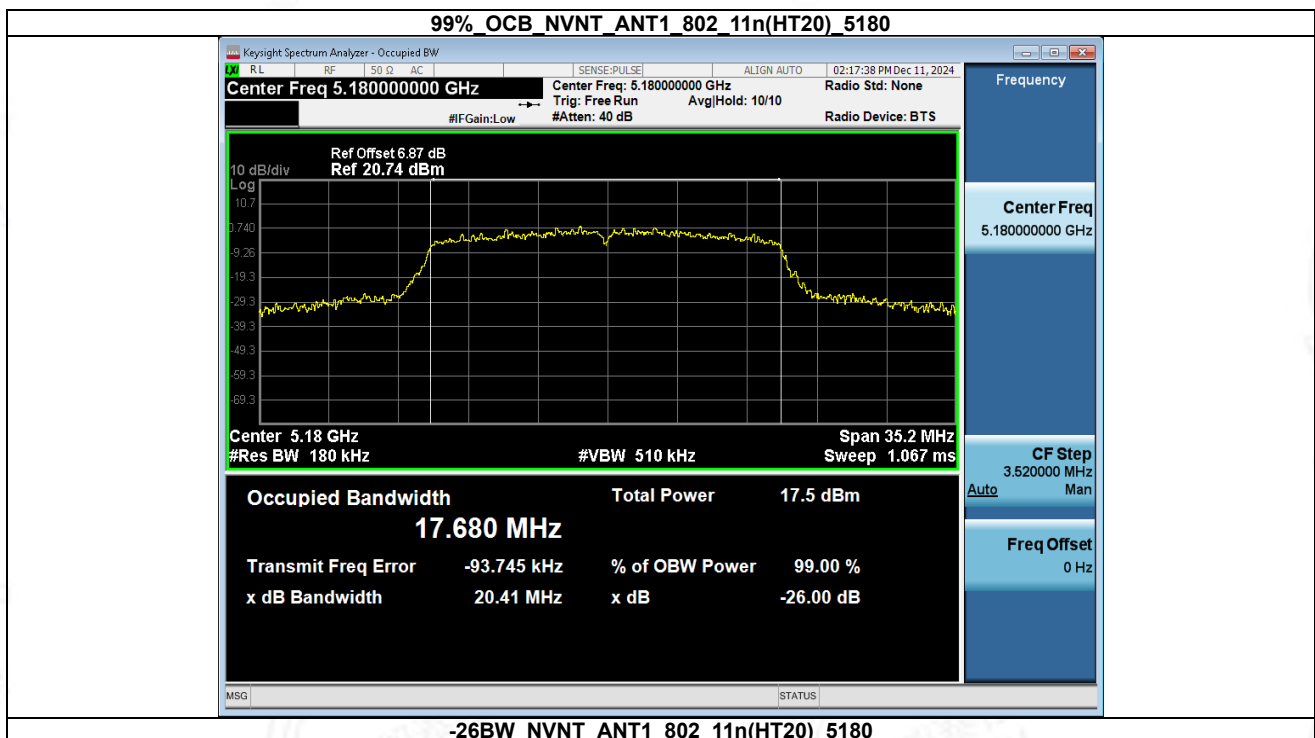
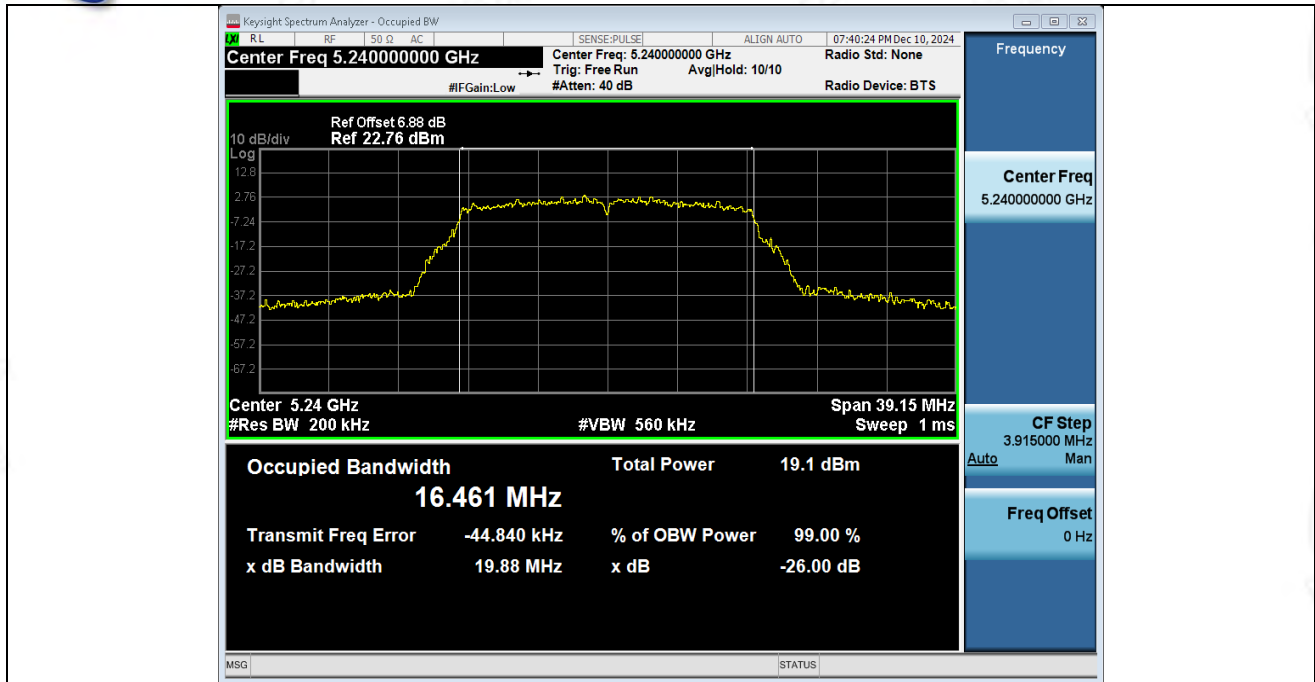


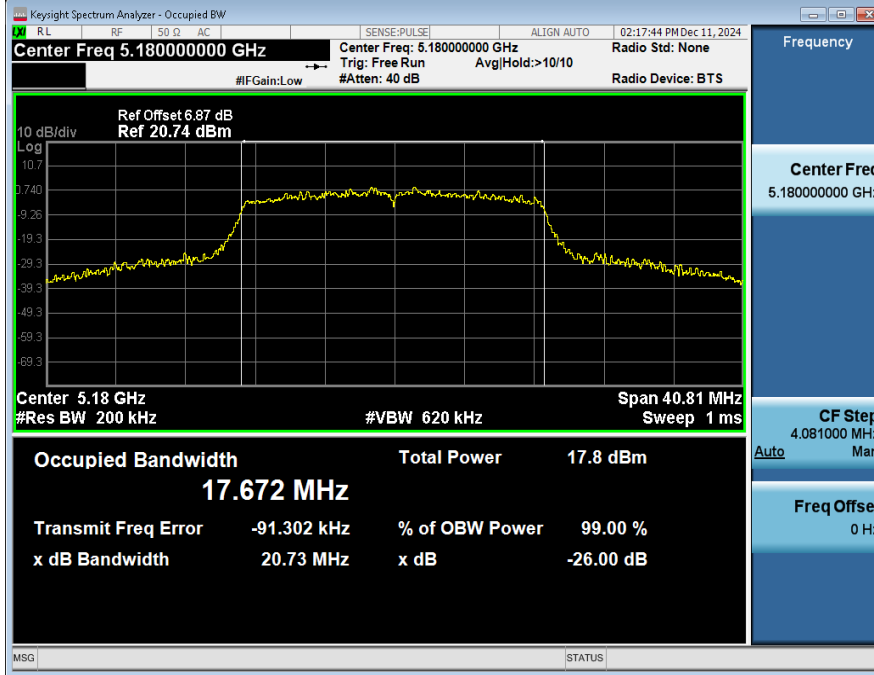




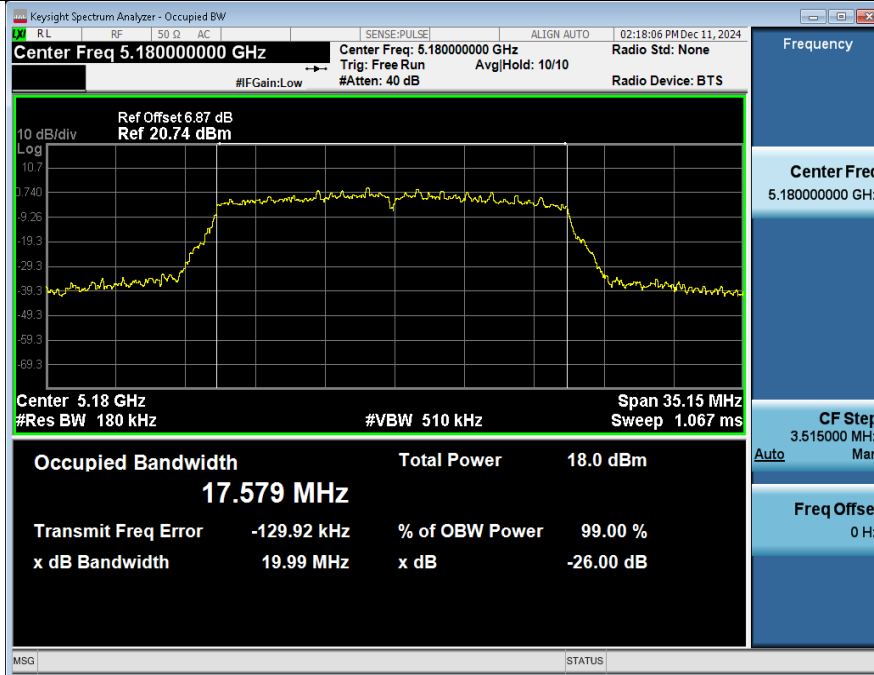






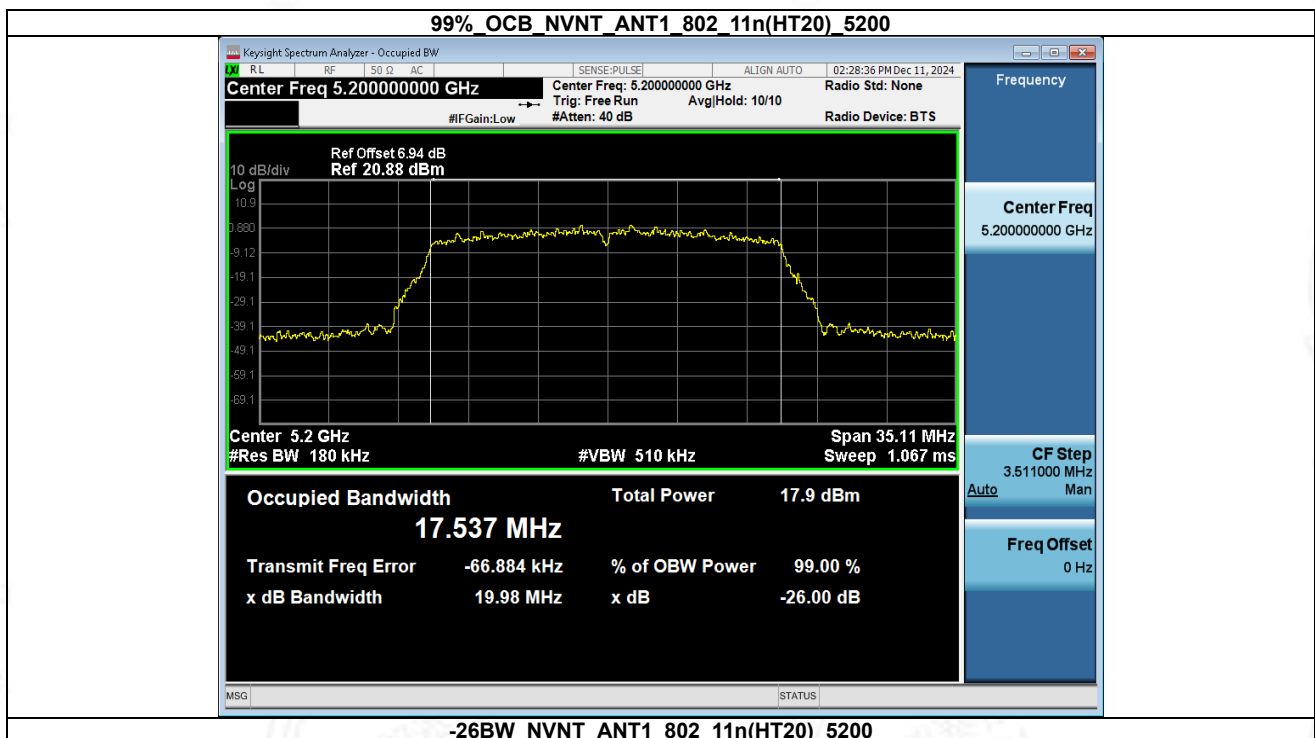
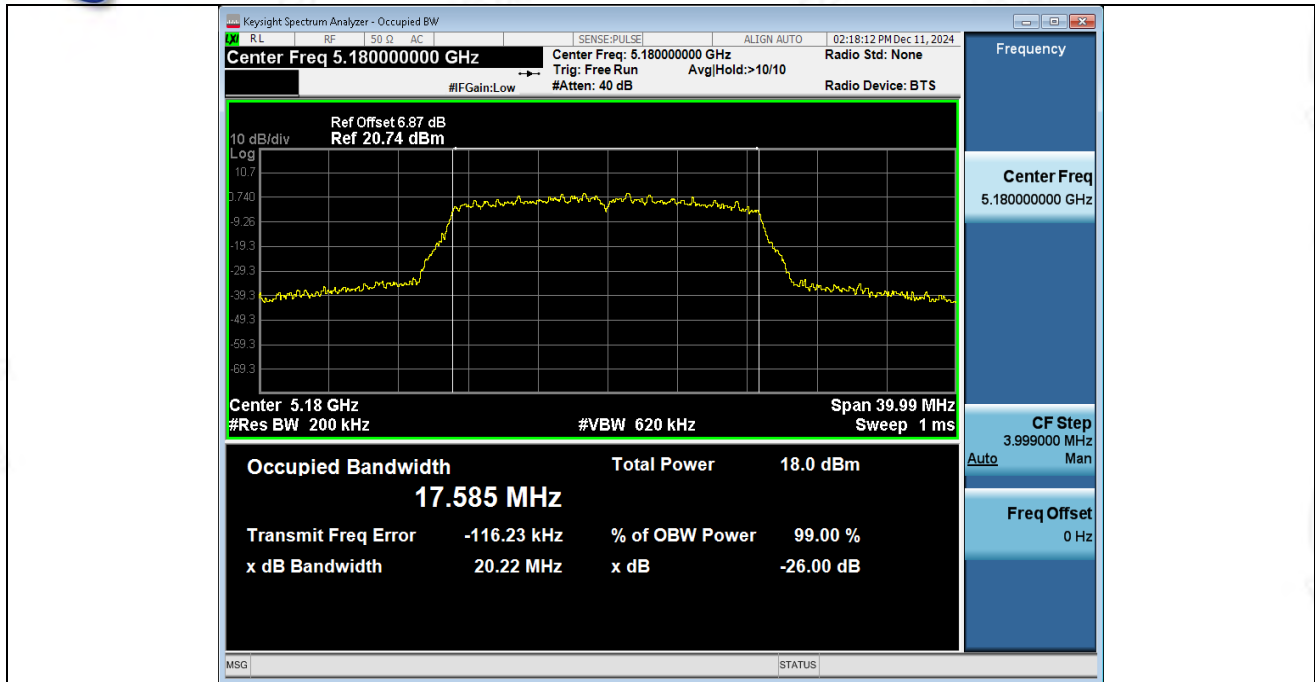


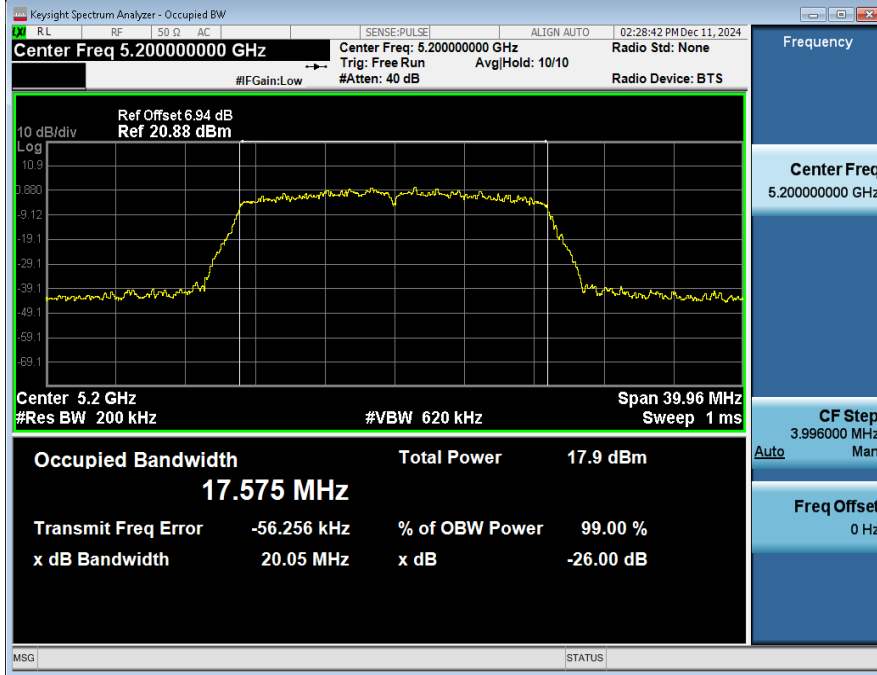
99%_OCB_NVNT_ANT2_802_11n(HT20)_5180



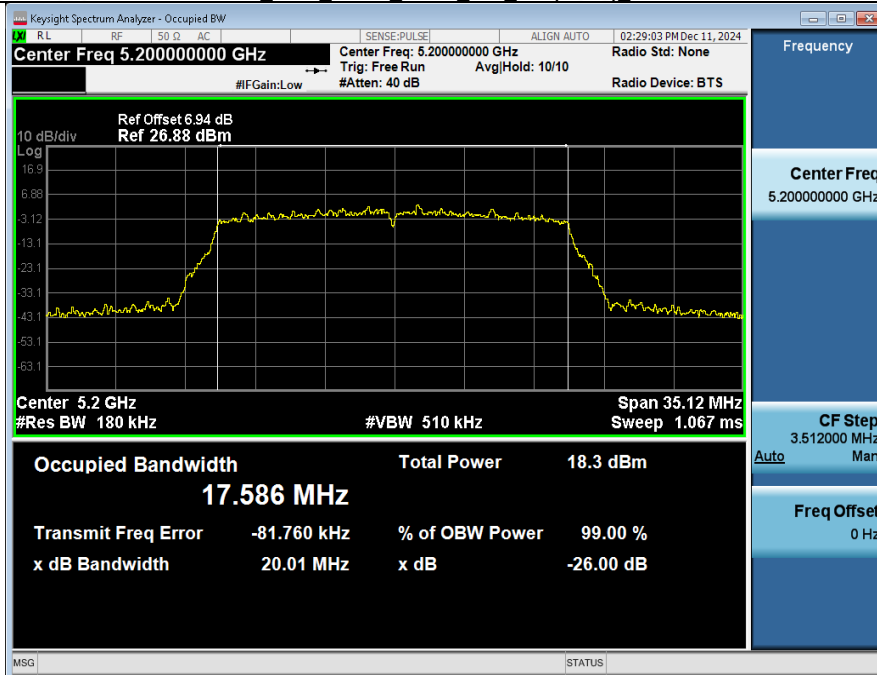
-26BW_NVNT_ANT2_802_11n(HT20)_5180





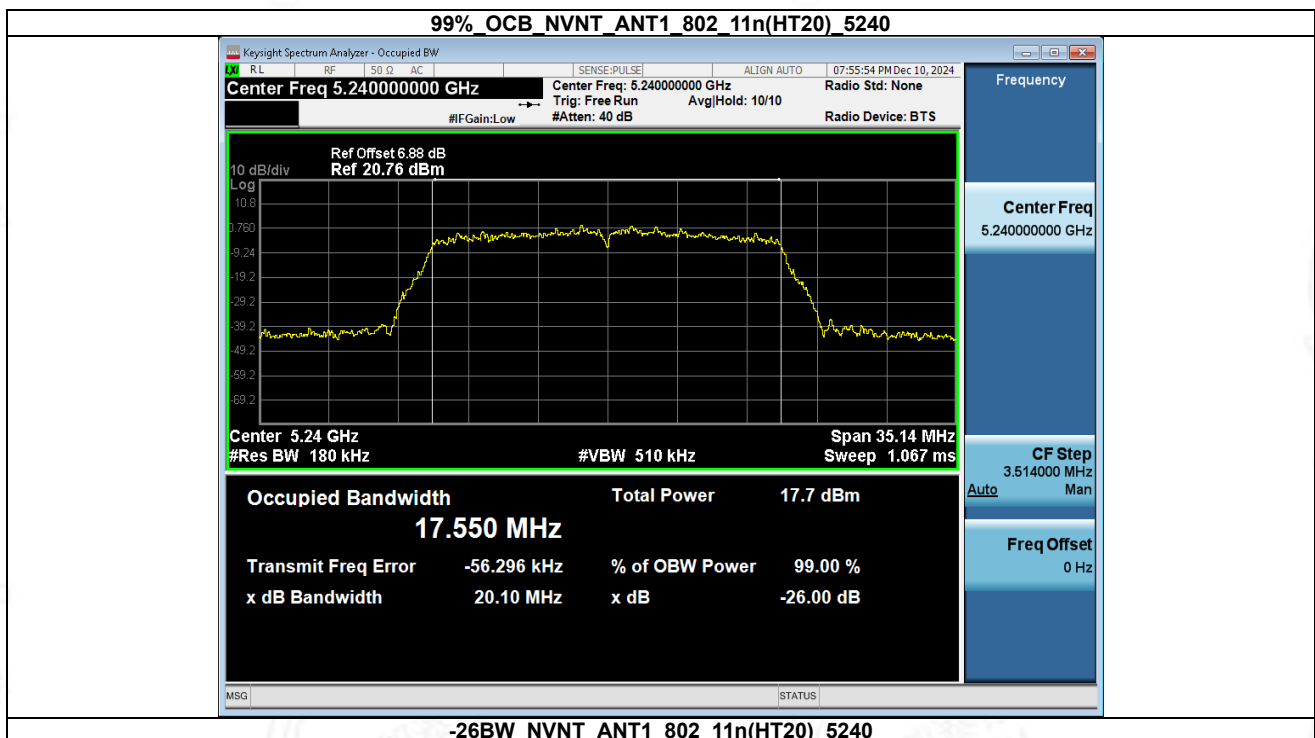
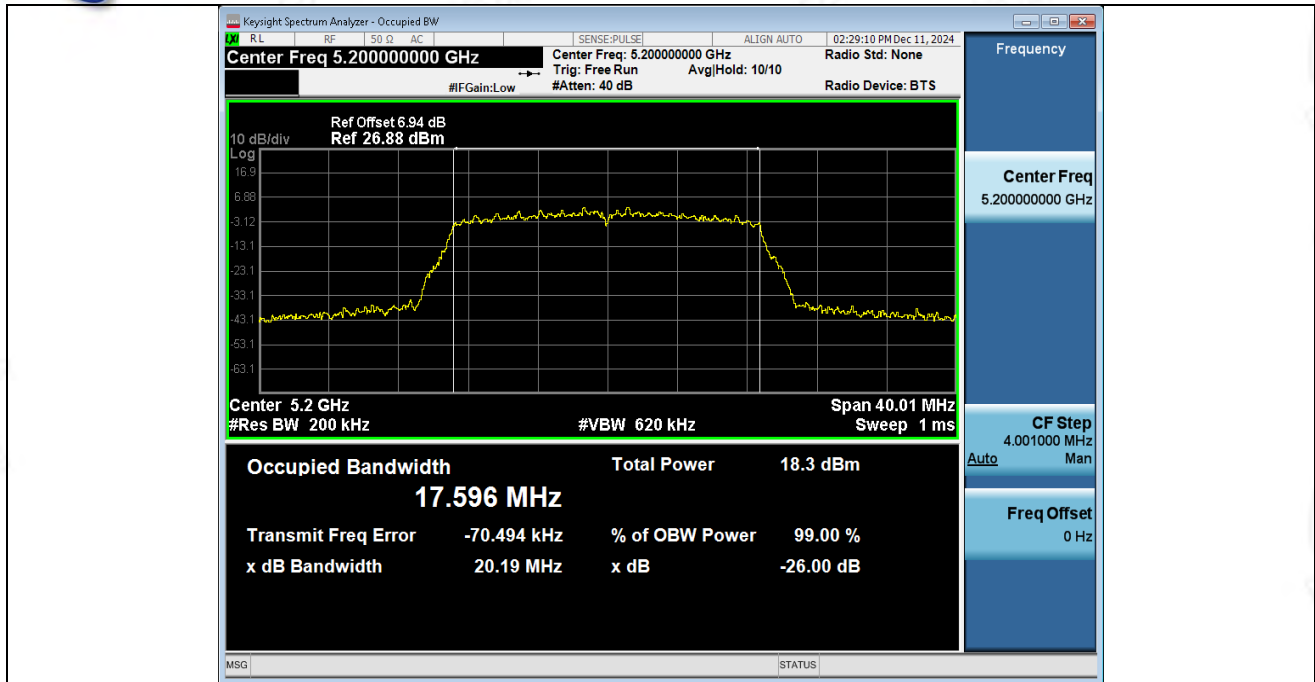


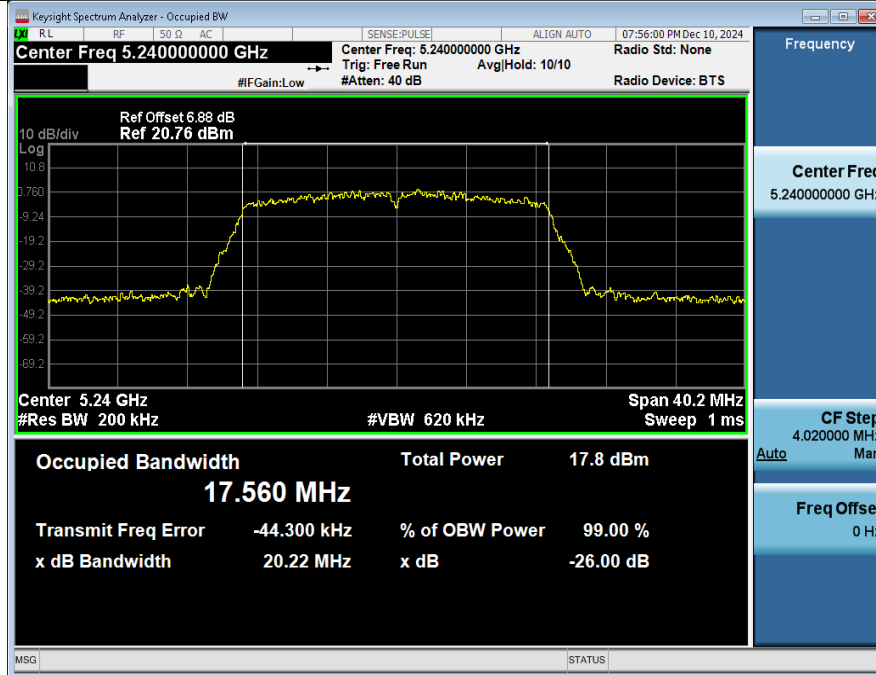
99%_OCB_NVNT_ANT2_802_11n(HT20)_5200



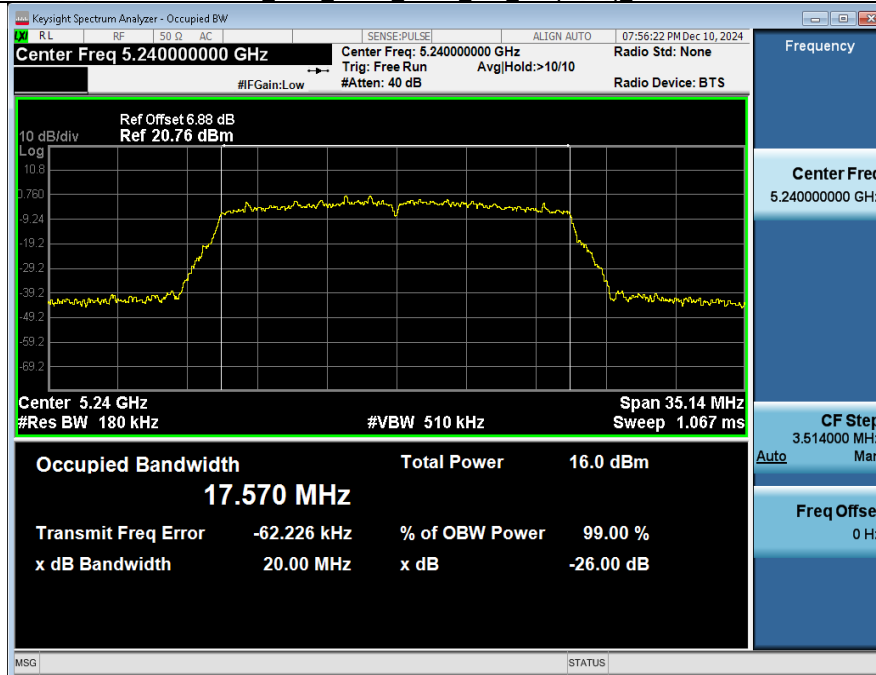
-26BW_NVNT_ANT2_802_11n(HT20)_5200





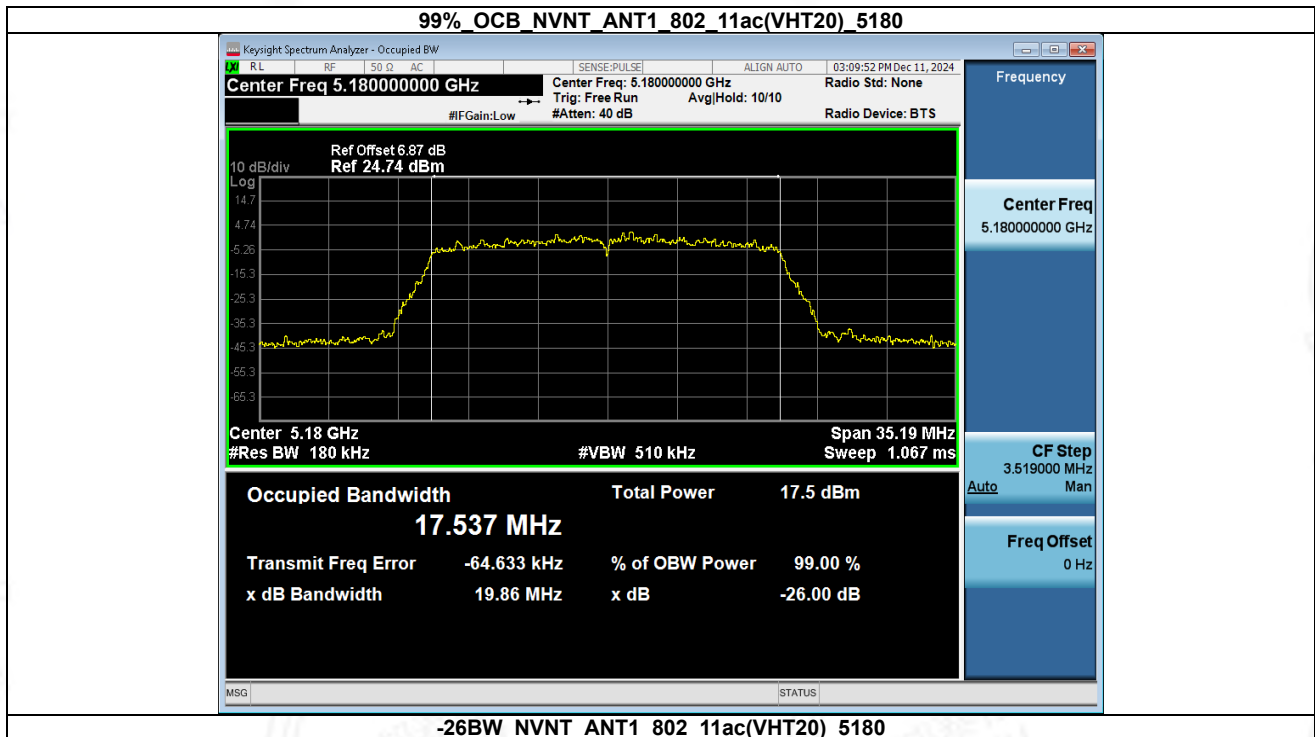
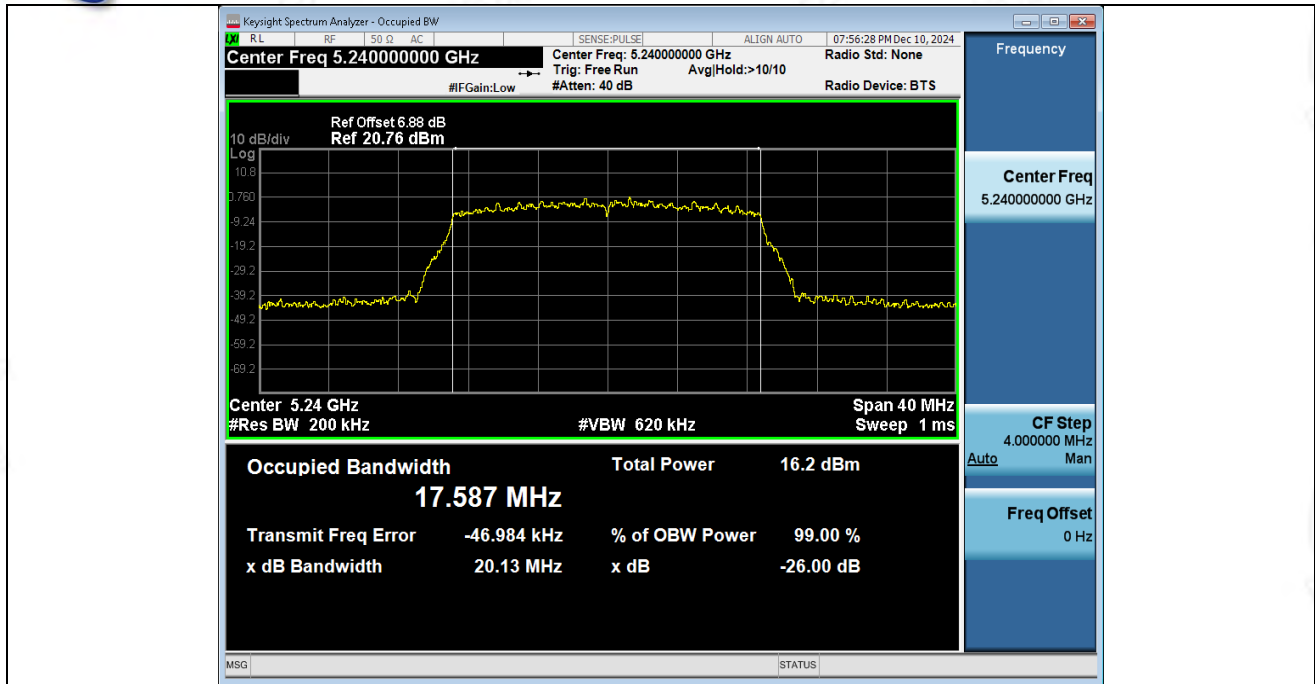


99%_OCB_NVNT_ANT2_802_11n(HT20)_5240



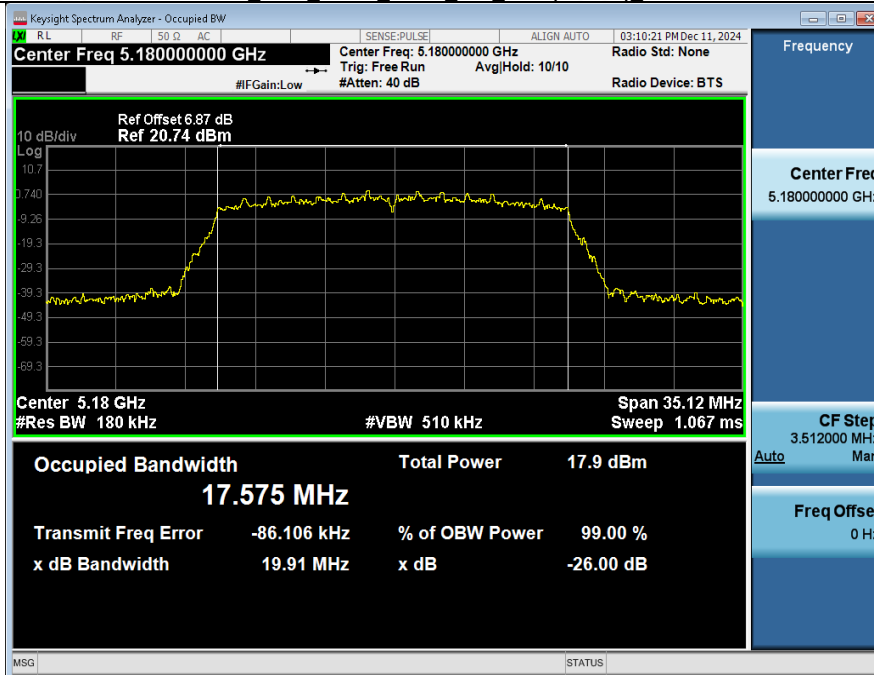
-26BW_NVNT_ANT2_802_11n(HT20)_5240





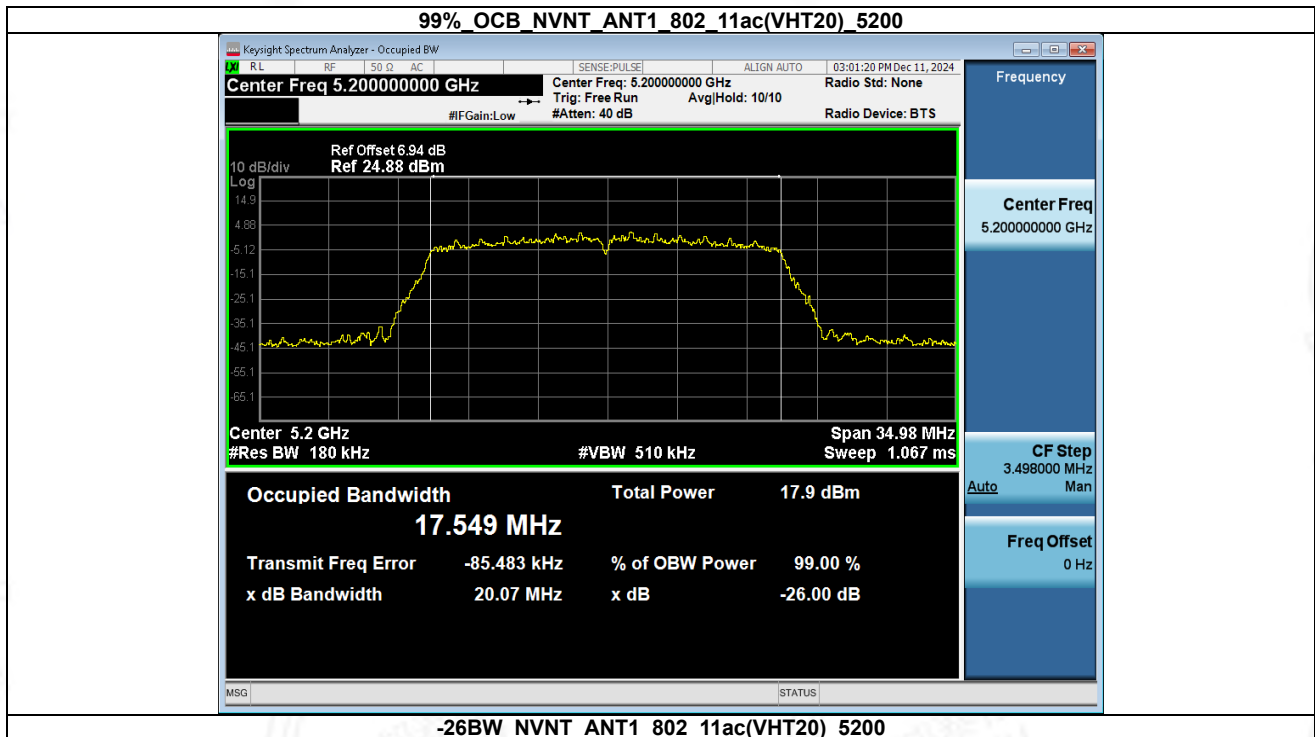
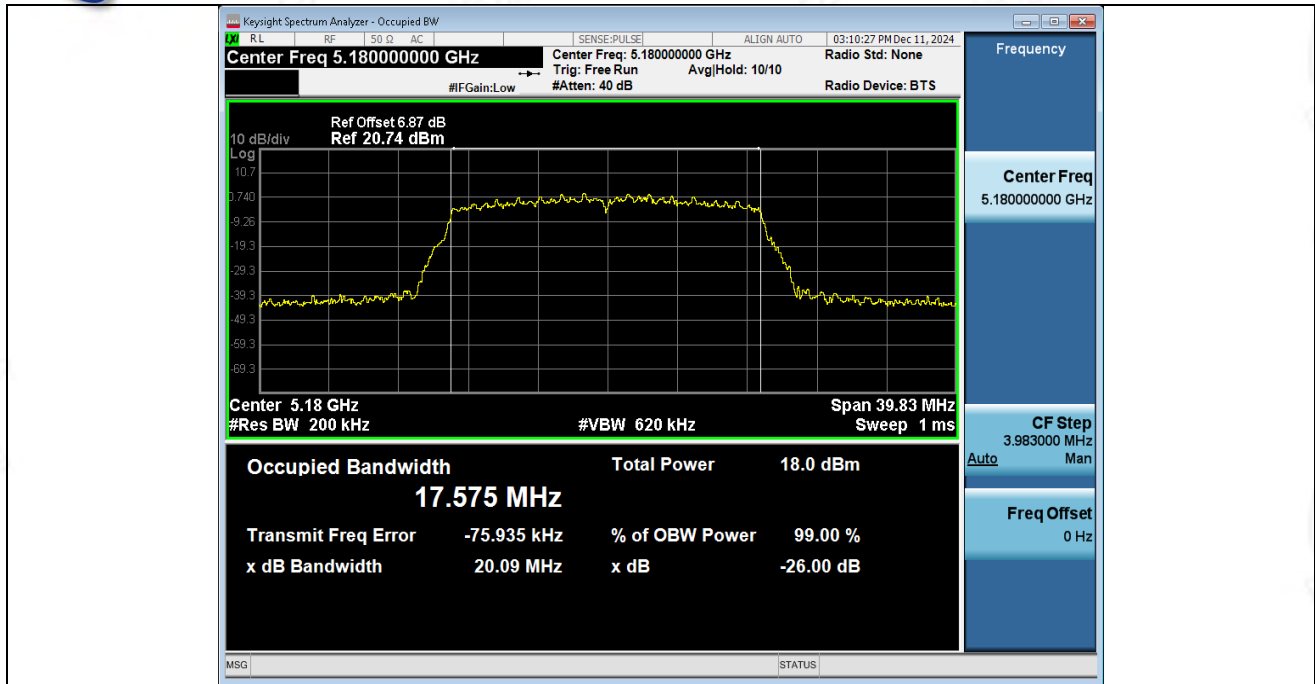


99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5180



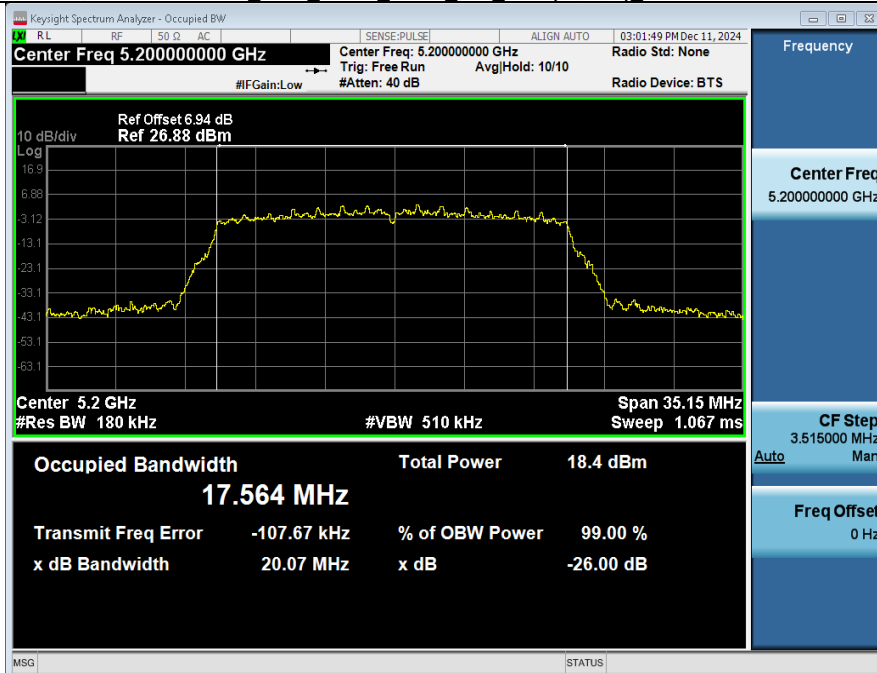
-26BW_NVNT_ANT2_802_11ac(VHT20)_5180





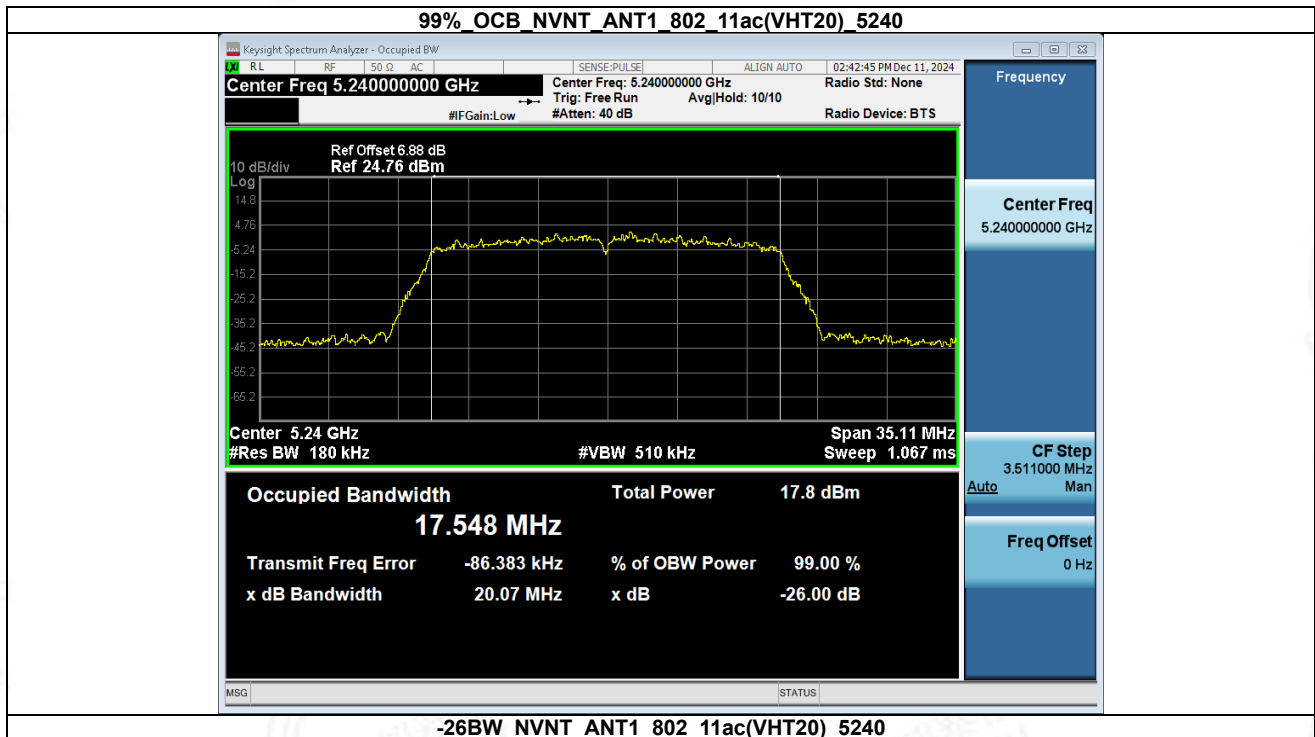
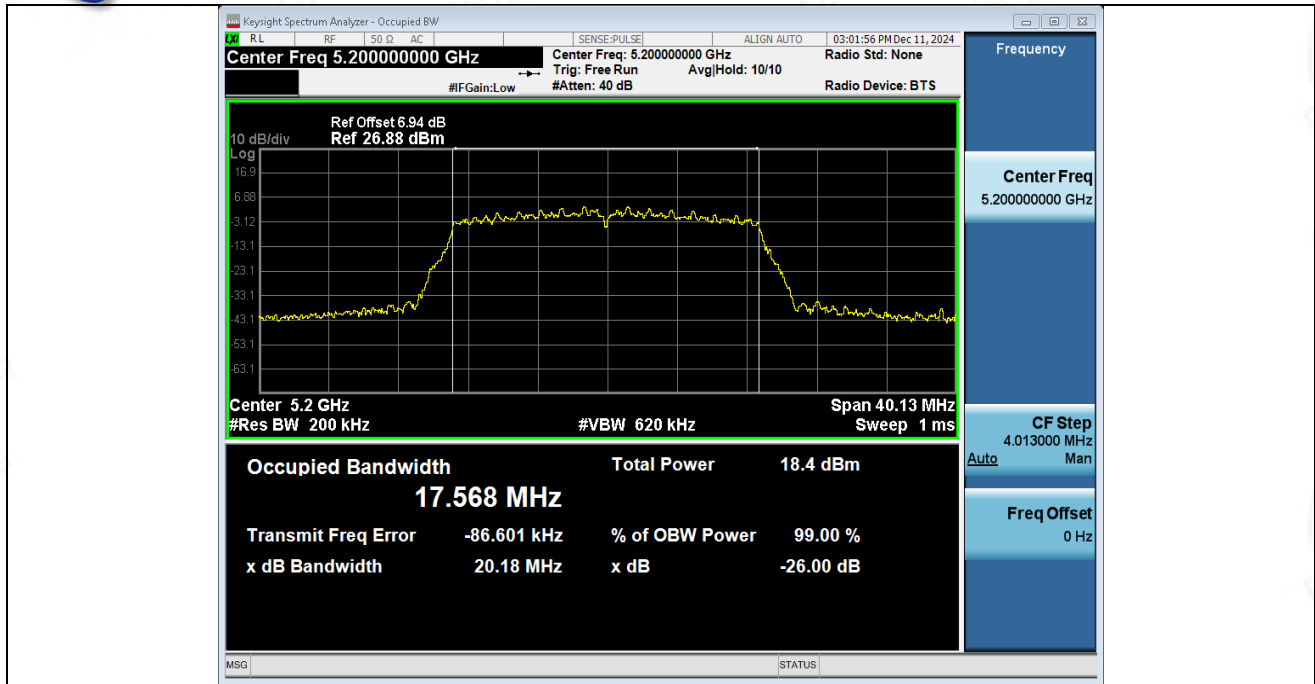


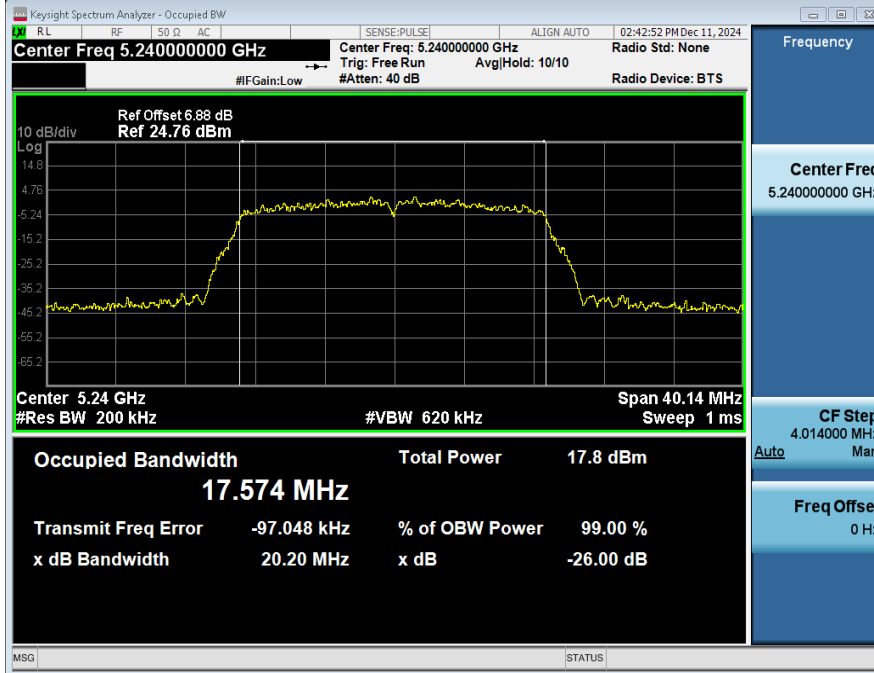
99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5200



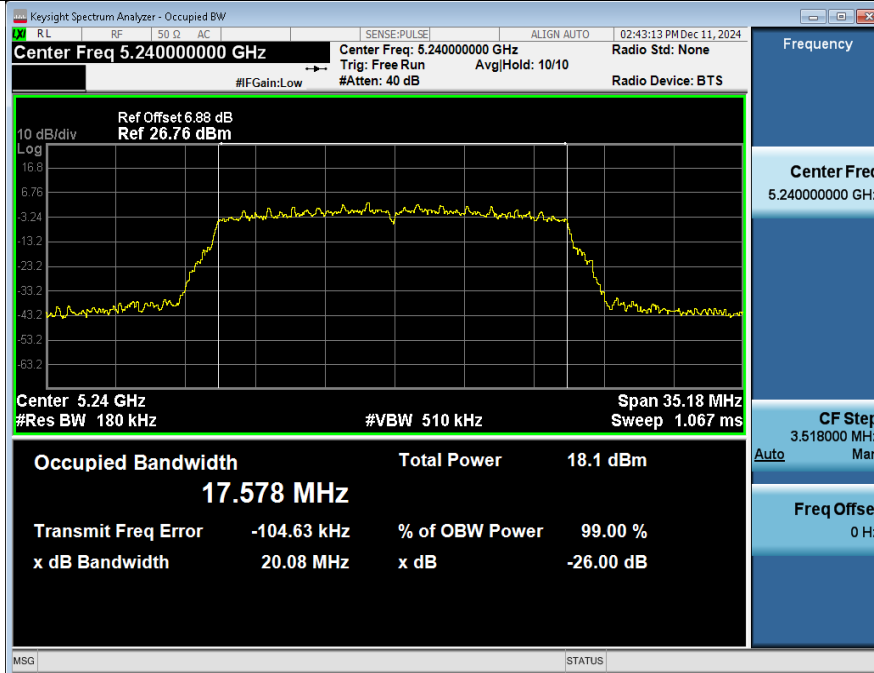
-26BW_NVNT_ANT2_802_11ac(VHT20)_5200





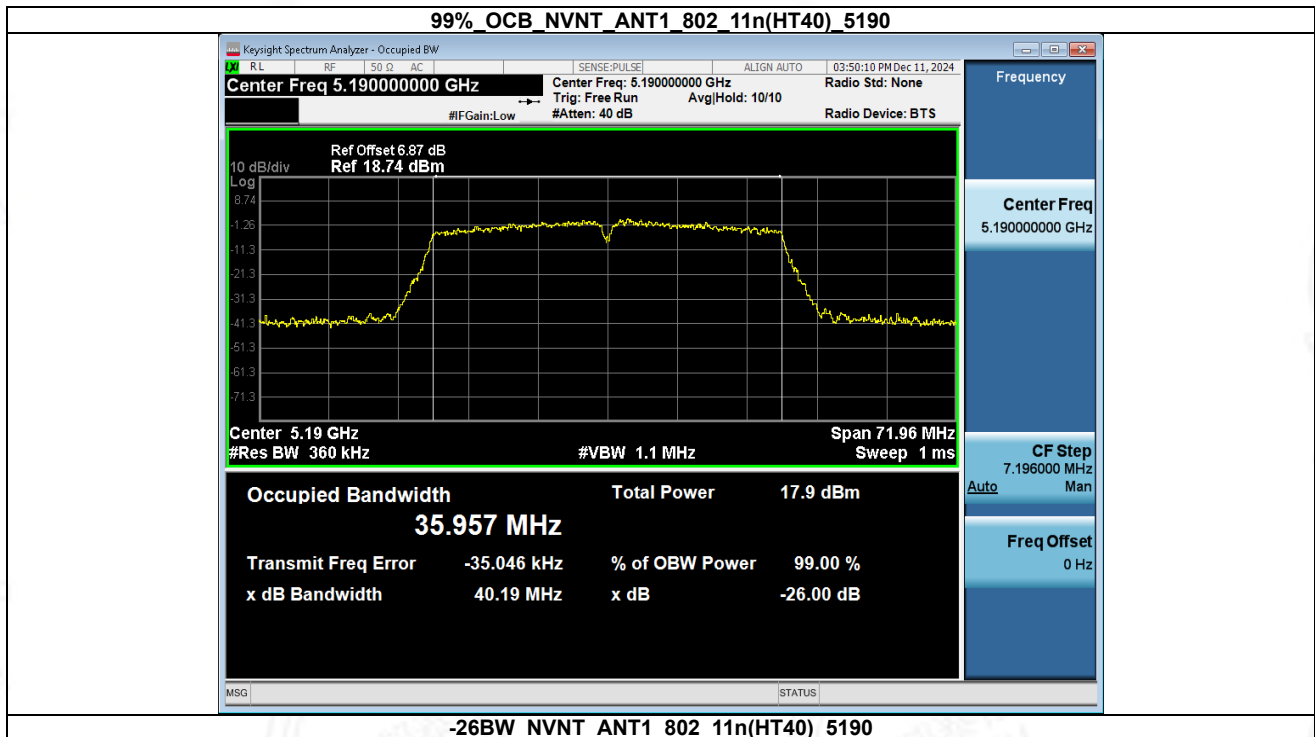
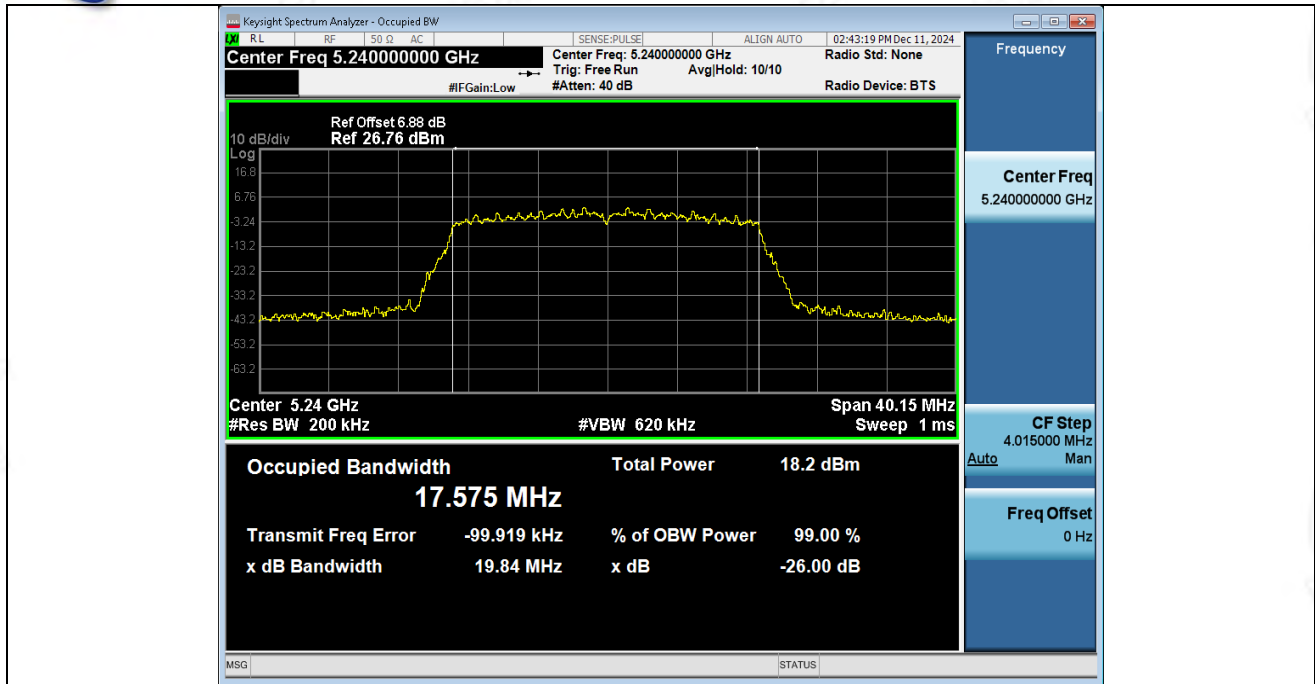


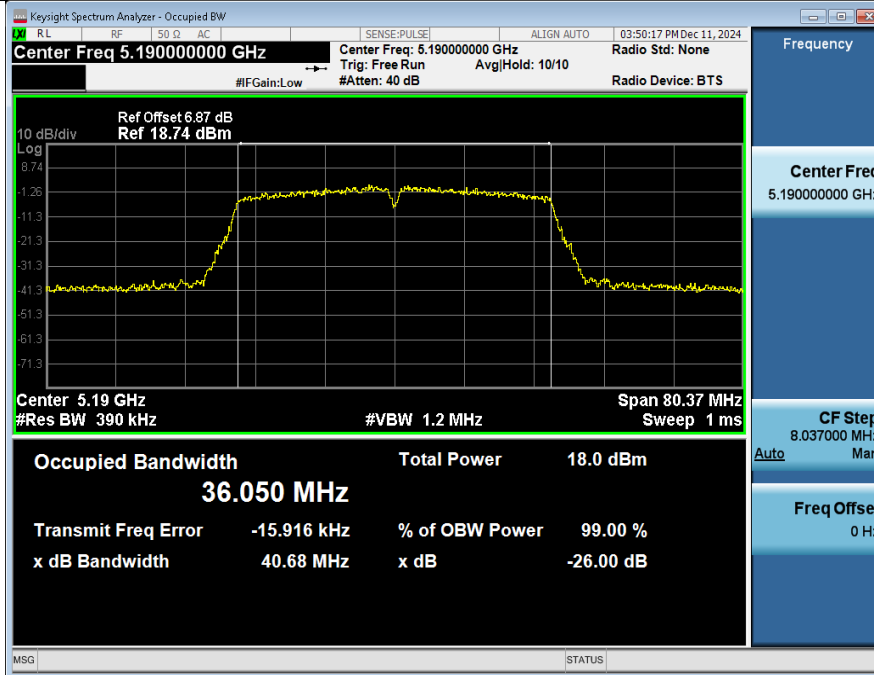
99%_OCB_NVNT_ANT2_802_11ac(VHT20)_5240



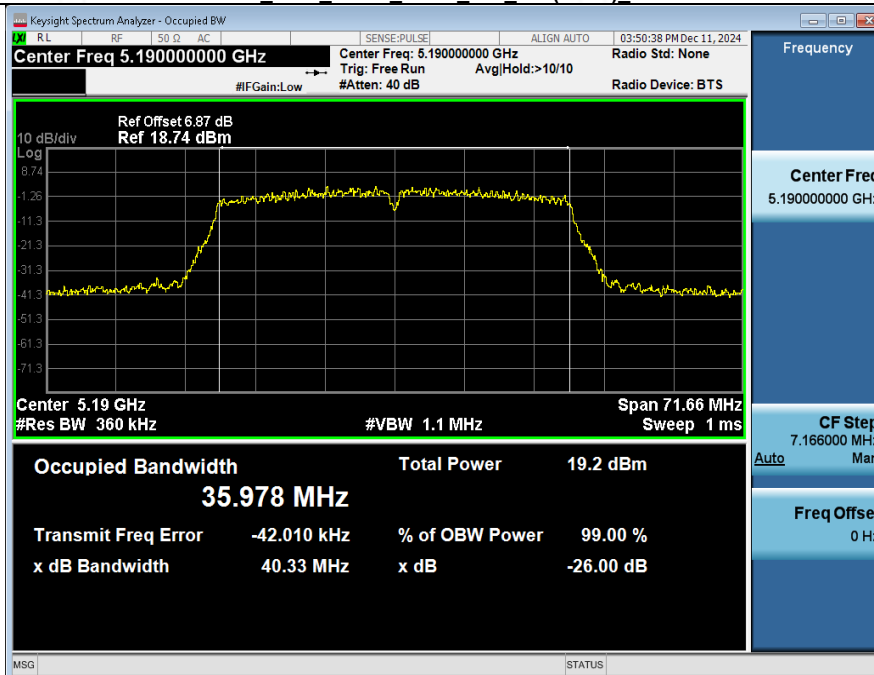
-26BW_NVNT_ANT2_802_11ac(VHT20)_5240





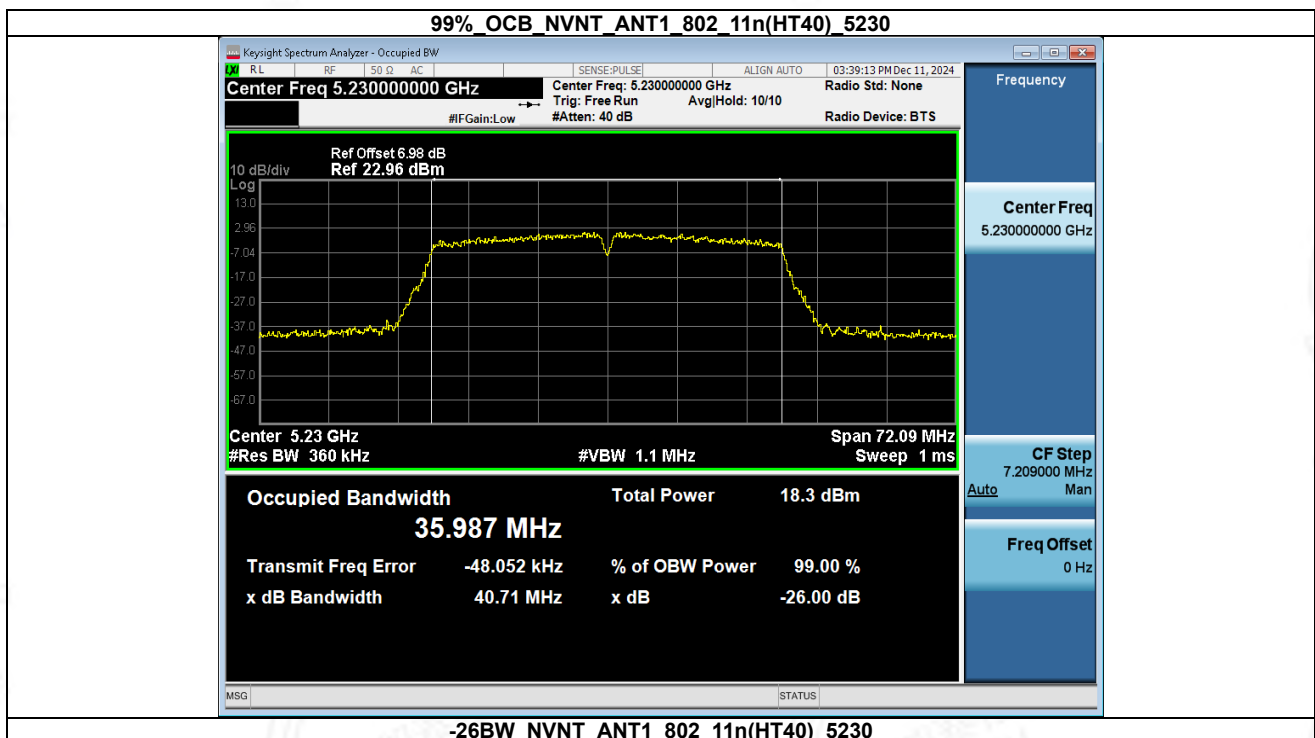
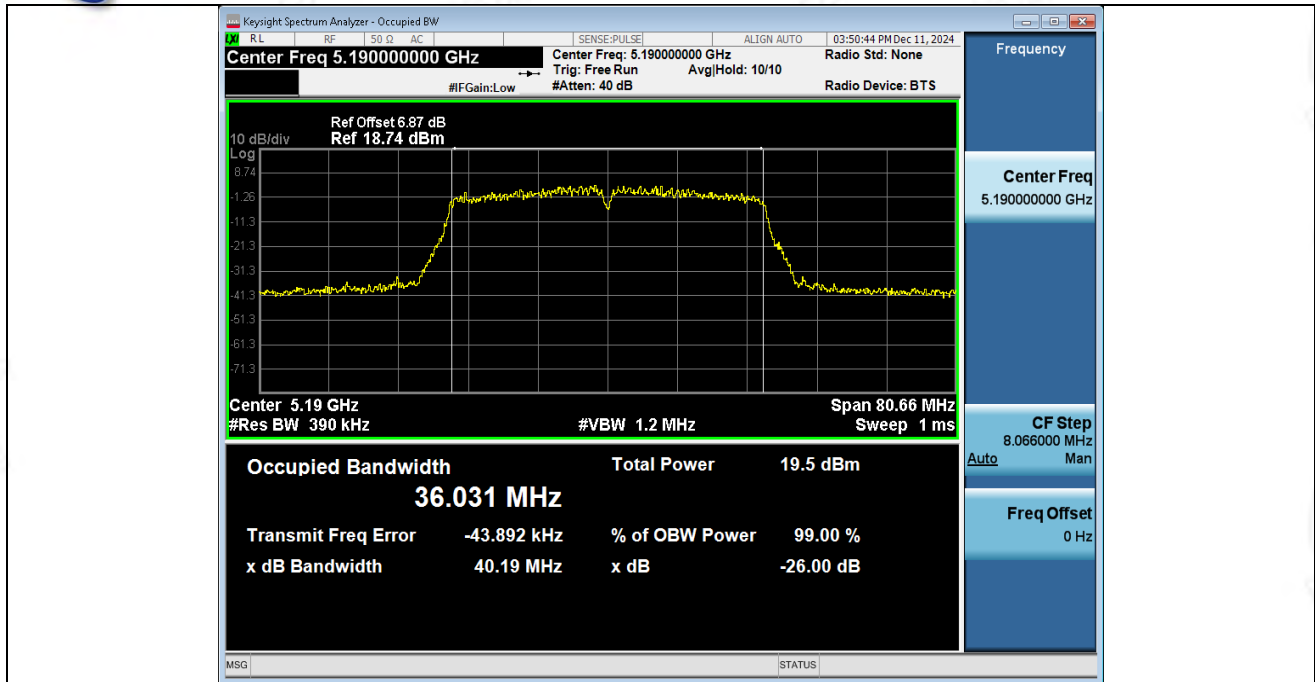


99%_OCB_NVNT_ANT2_802_11n(HT40)_5190



-26BW_NVNT_ANT2_802_11n(HT40)_5190





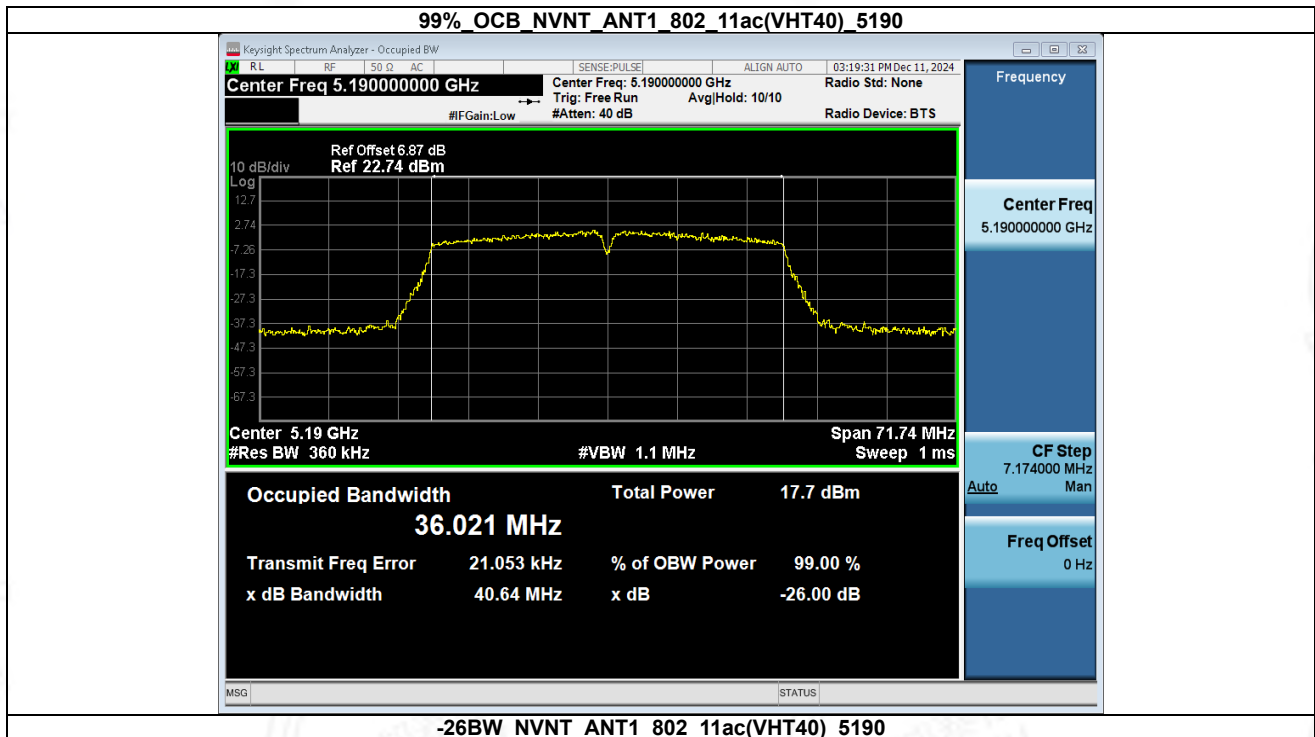
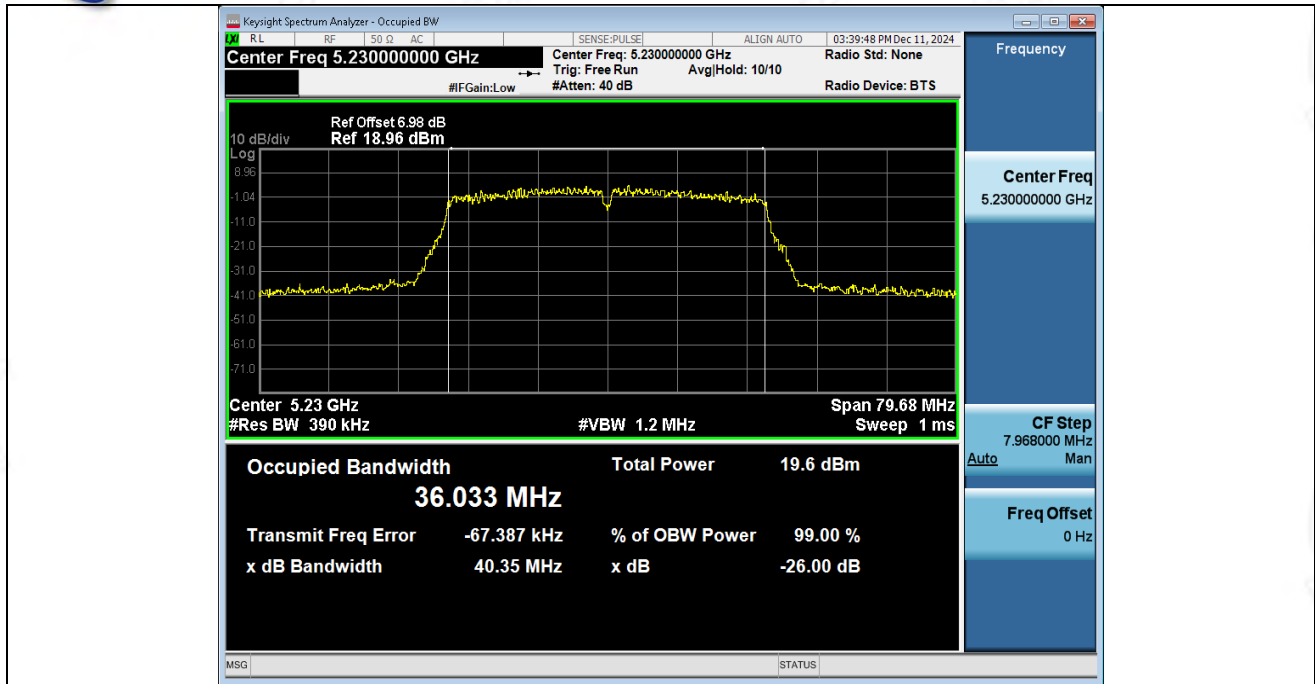


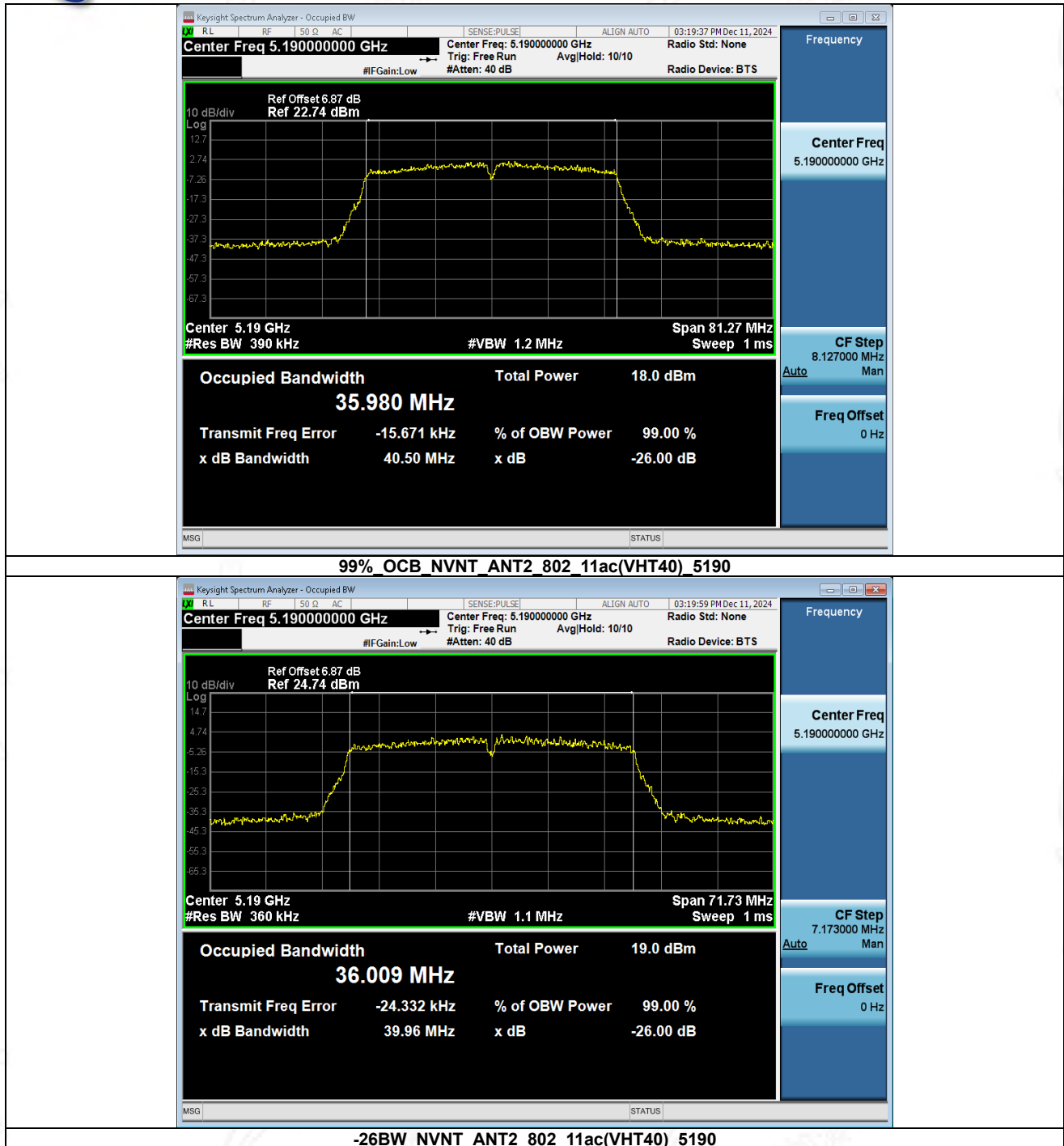
99%_OCB_NVNT_ANT2_802_11n(HT40)_5230

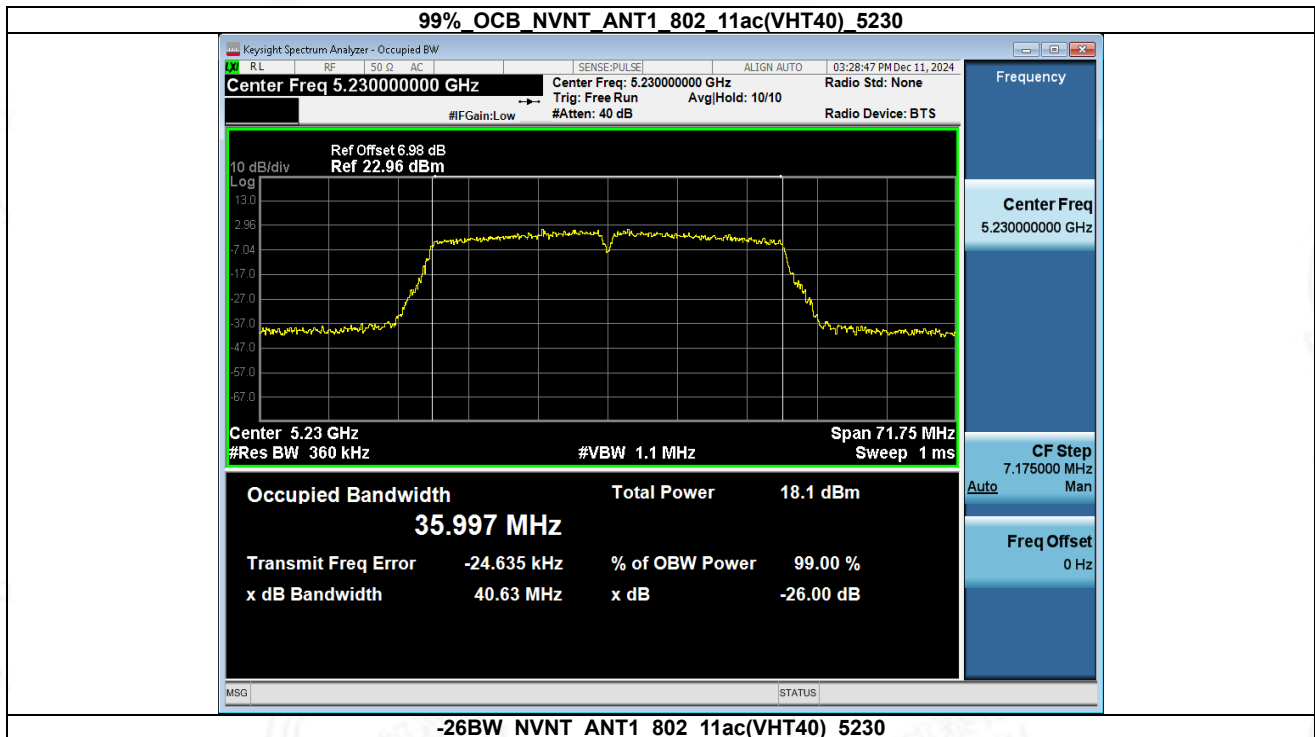
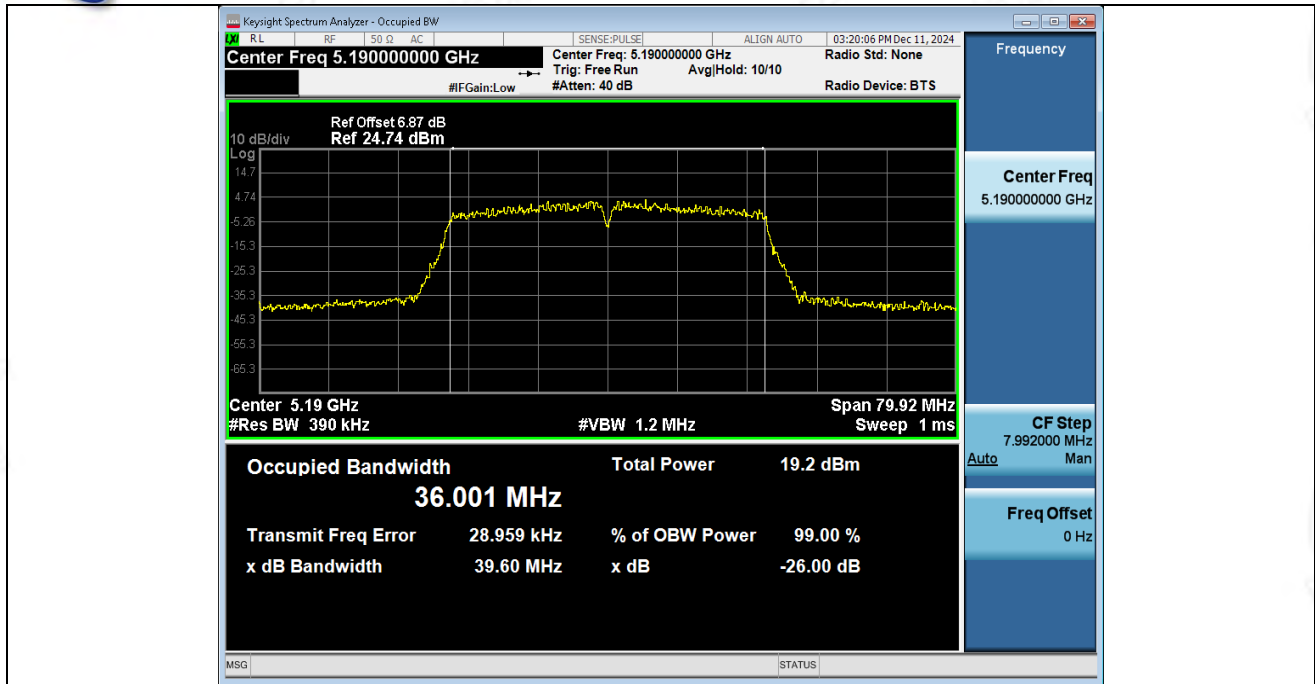


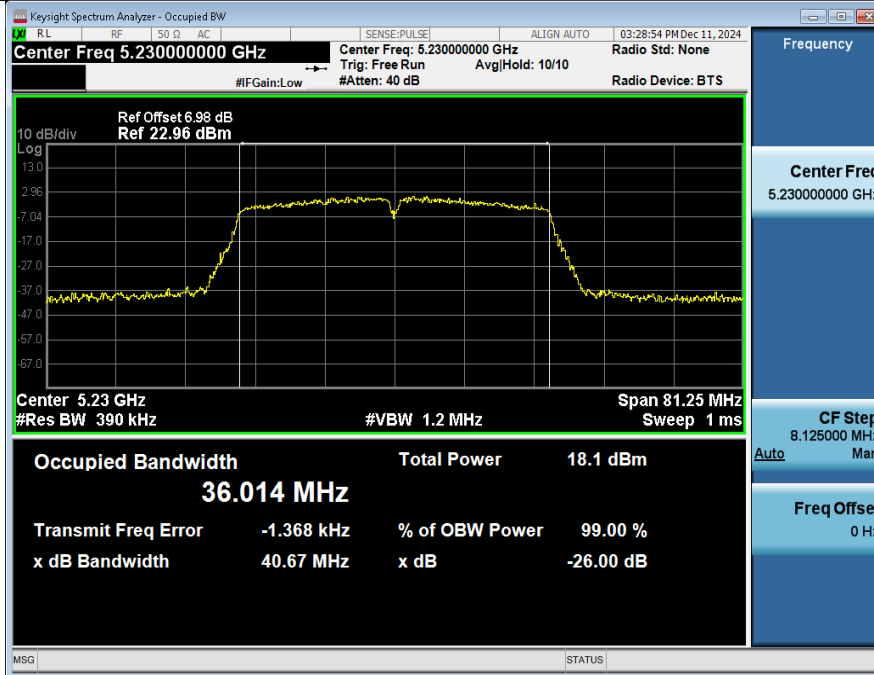
-26BW_NVNT_ANT2_802_11n(HT40)_5230



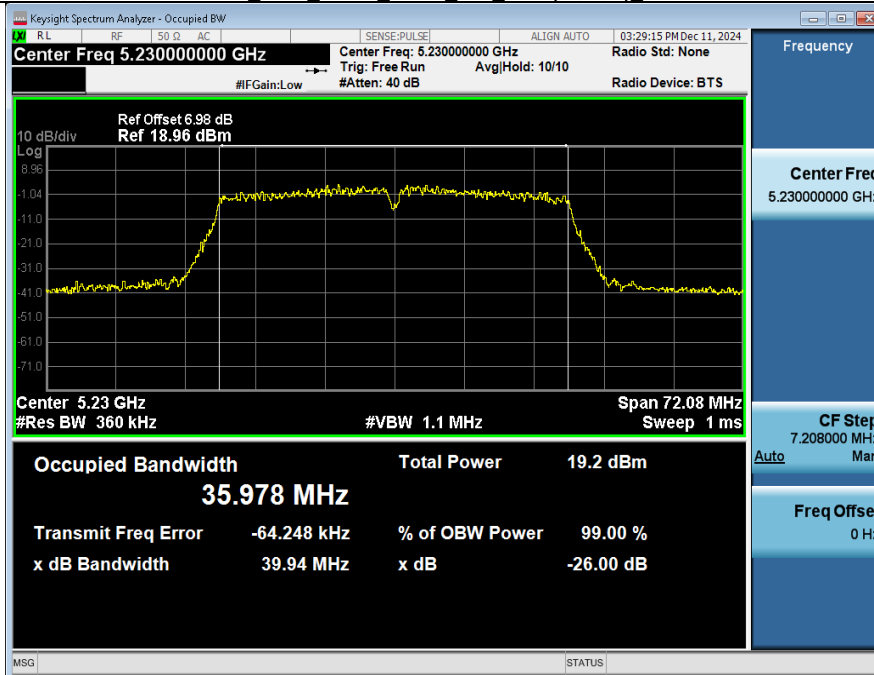






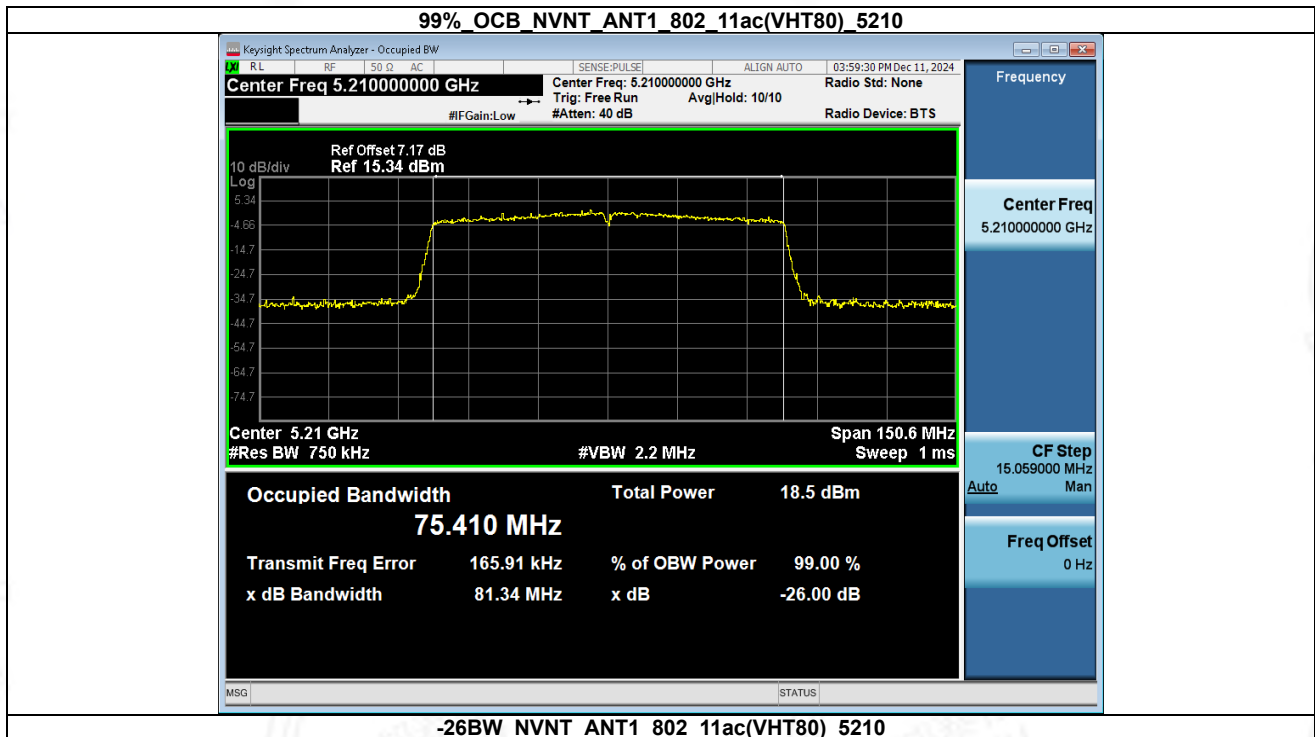
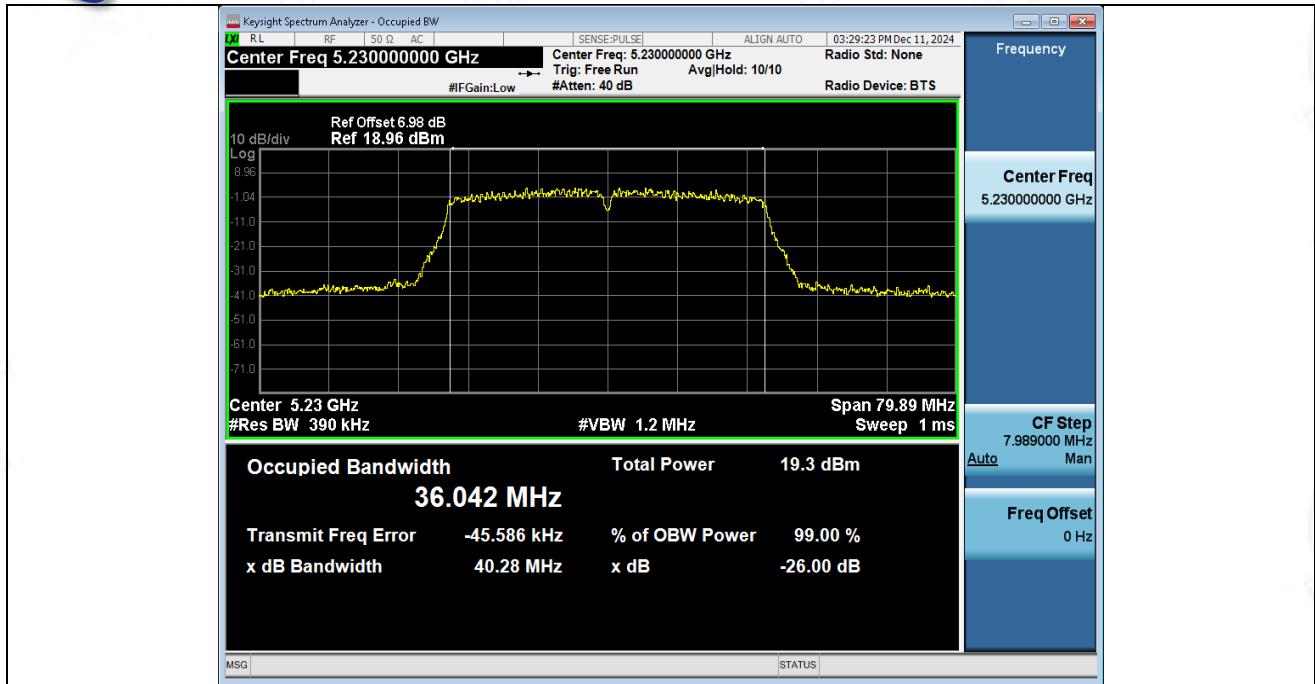


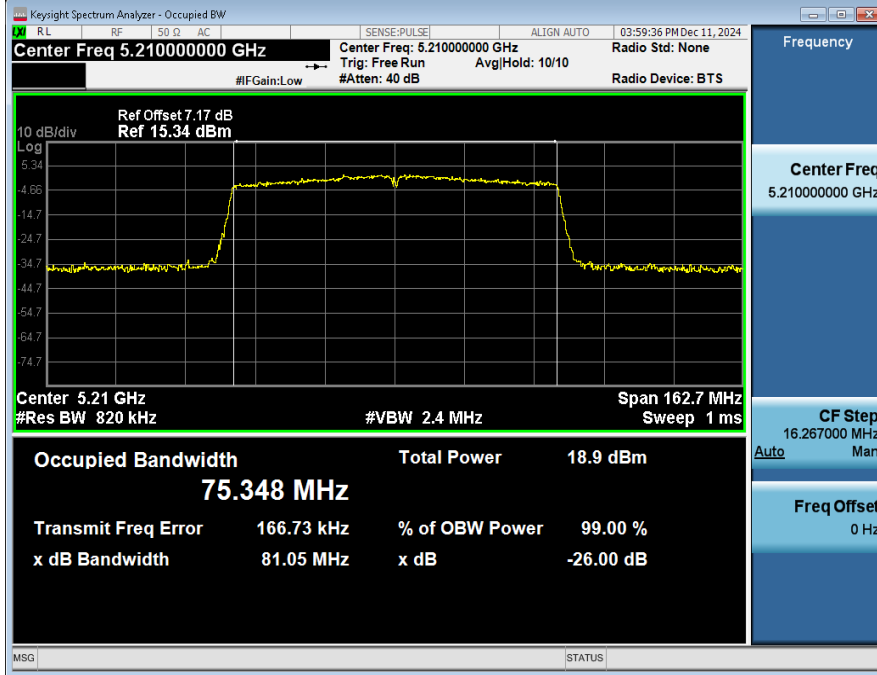
99%_OCB_NVNT_ANT2_802_11ac(VHT40)_5230



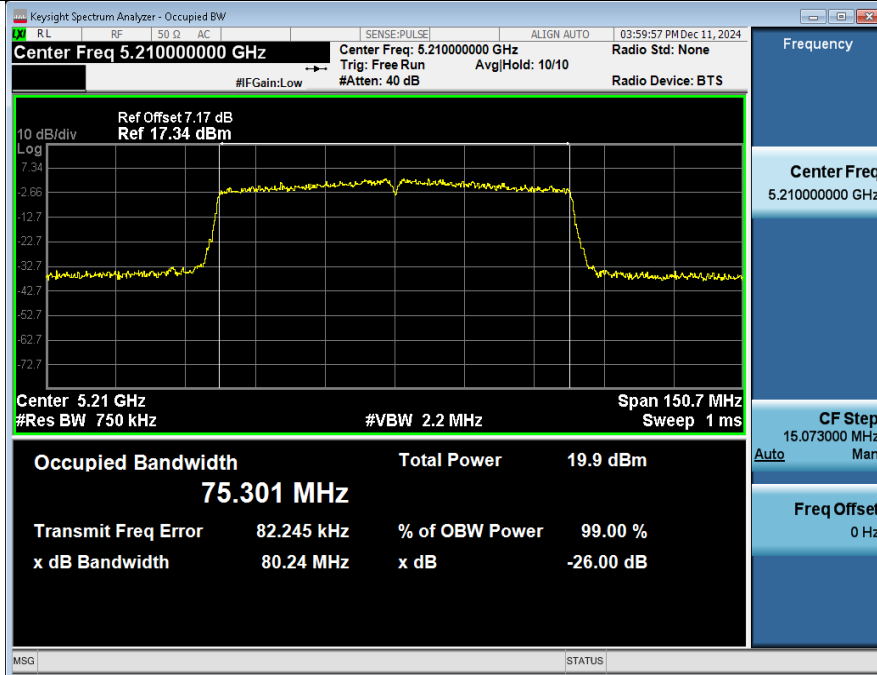
-26BW_NVNT_ANT2_802_11ac(VHT40)_5230





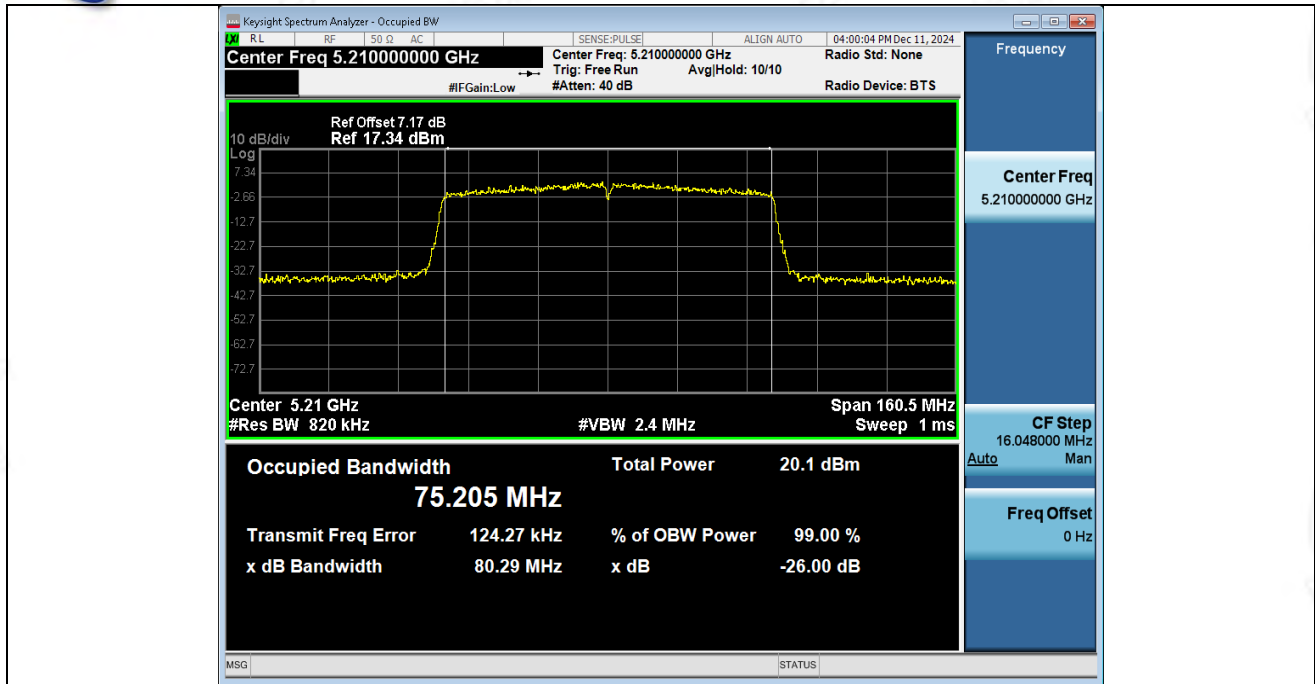


99%_OCB_NVNT_ANT2_802_11ac(VHT80)_5210



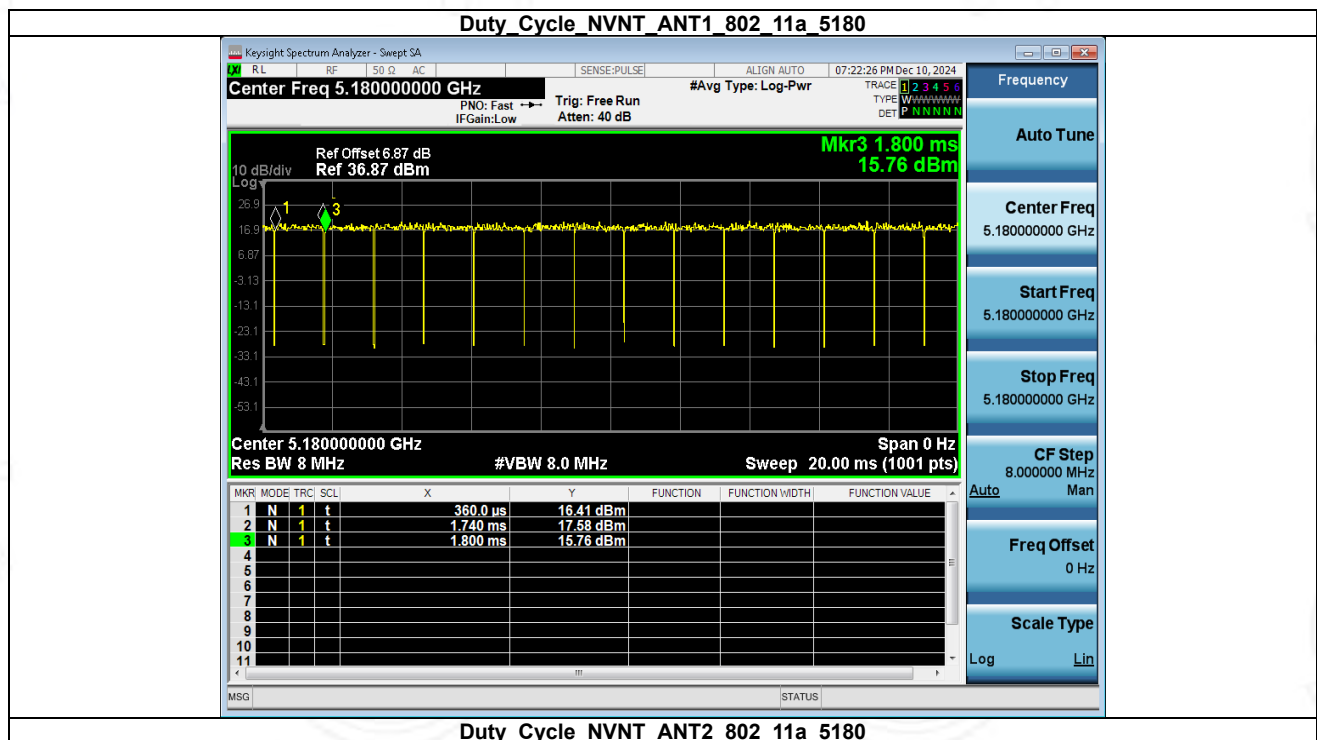
-26BW_NVNT_ANT2_802_11ac(VHT80)_5210

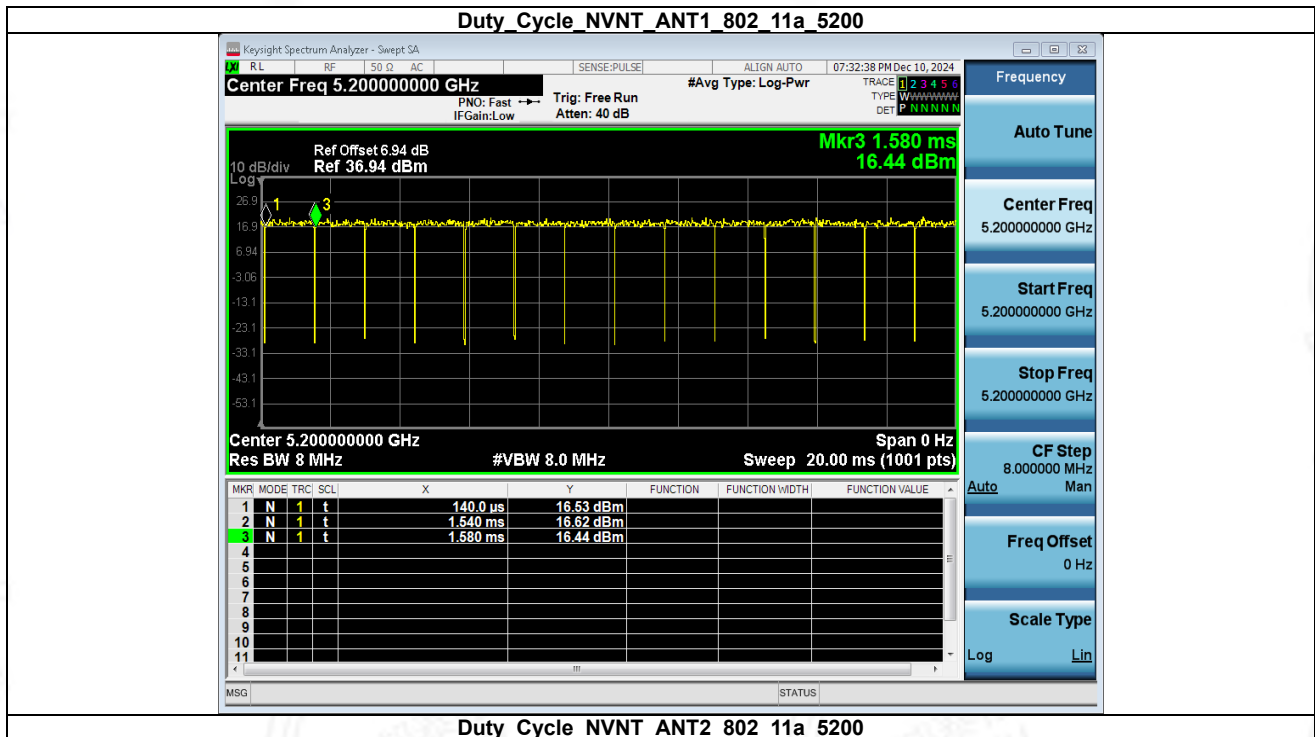
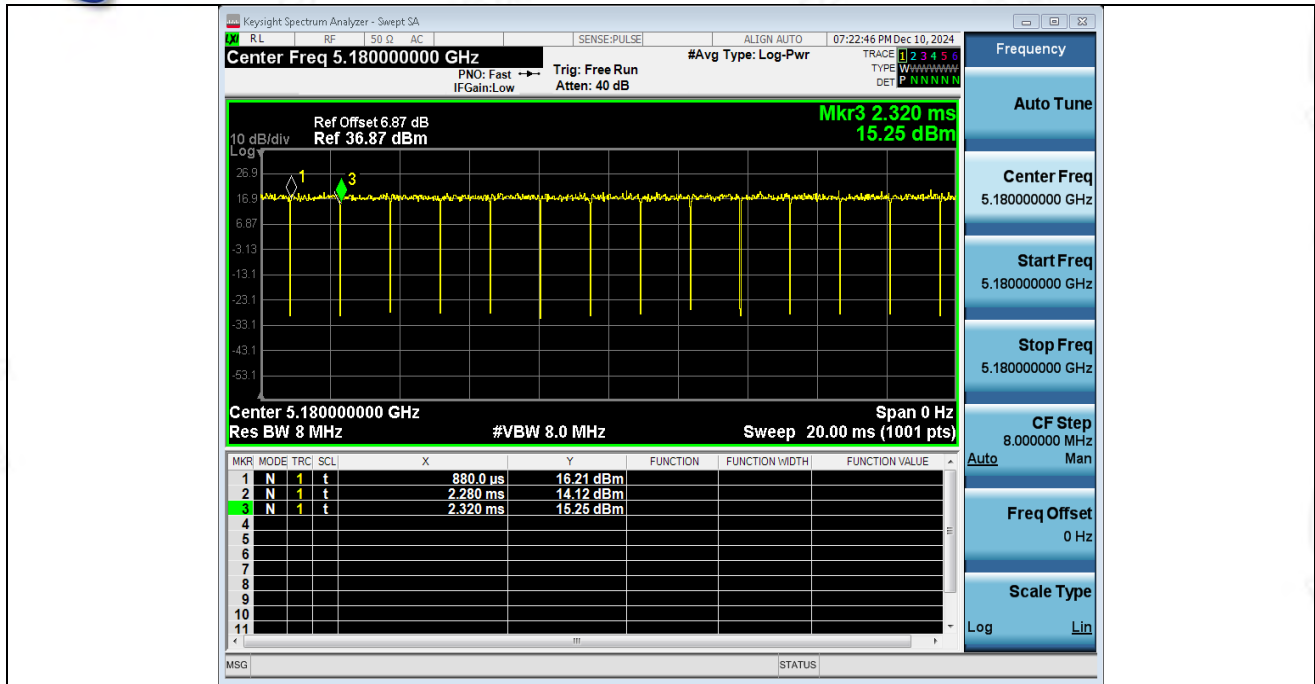


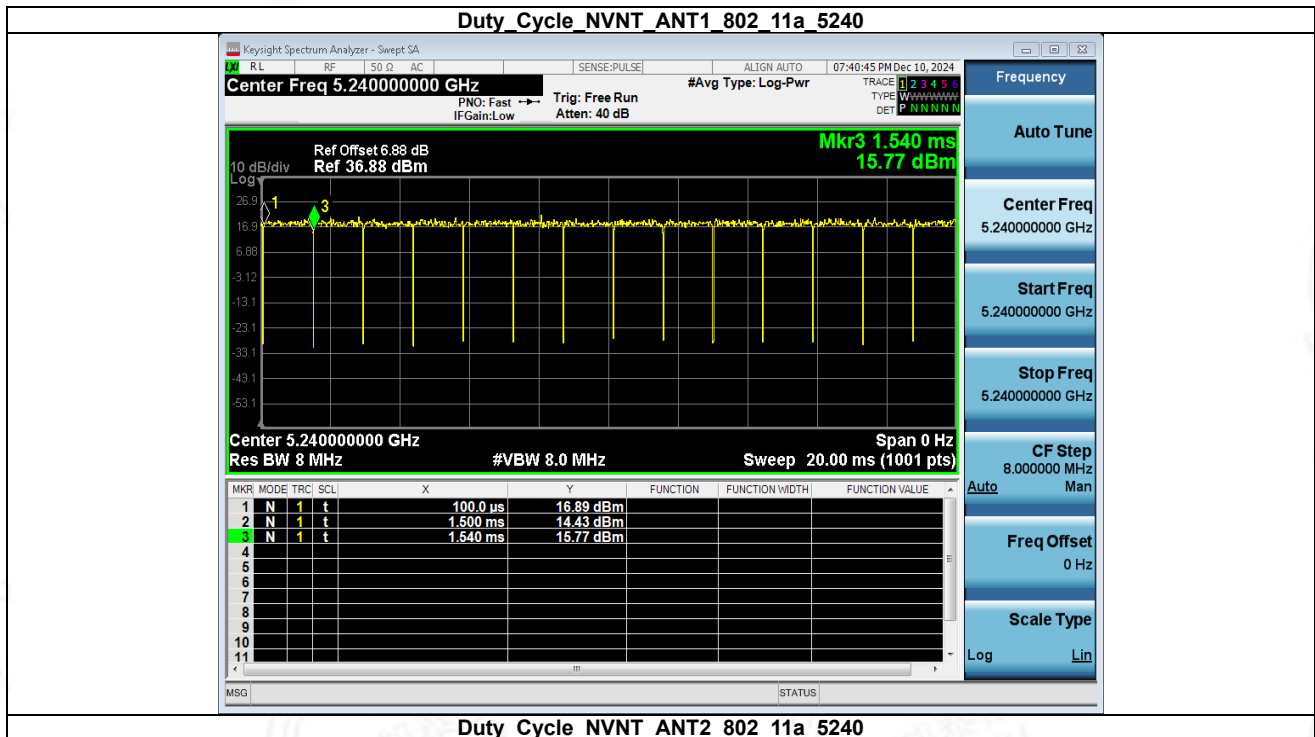
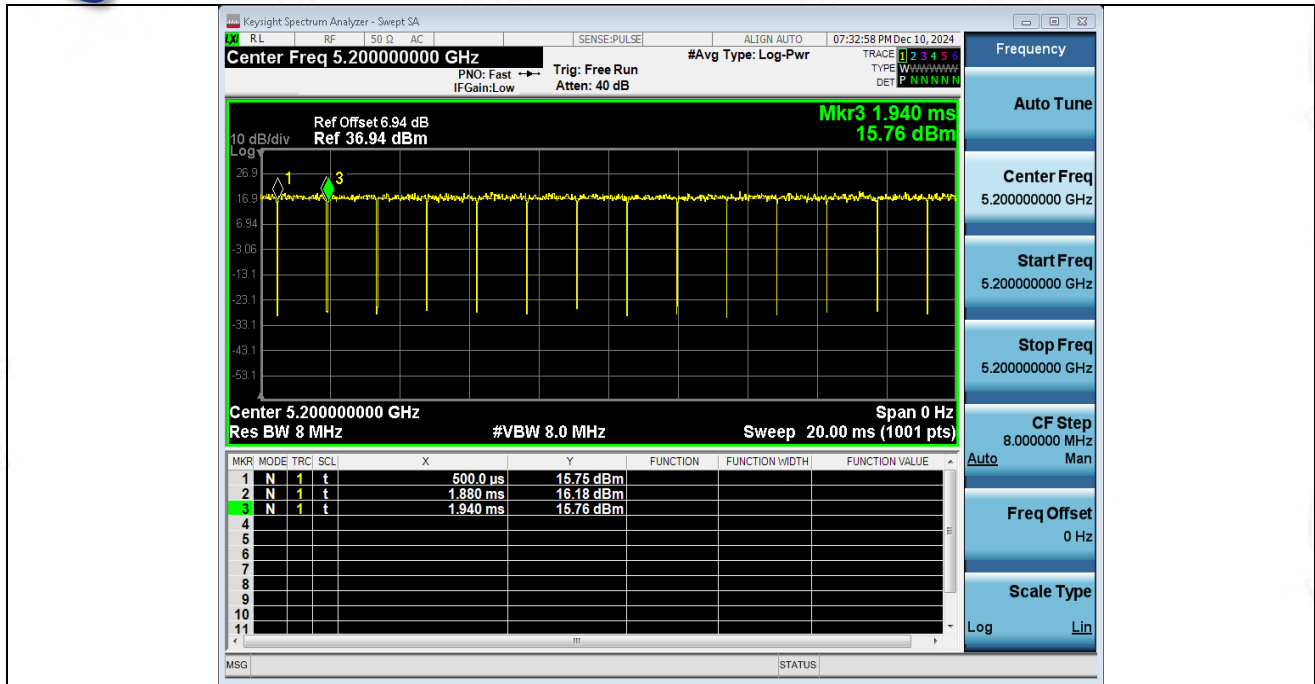


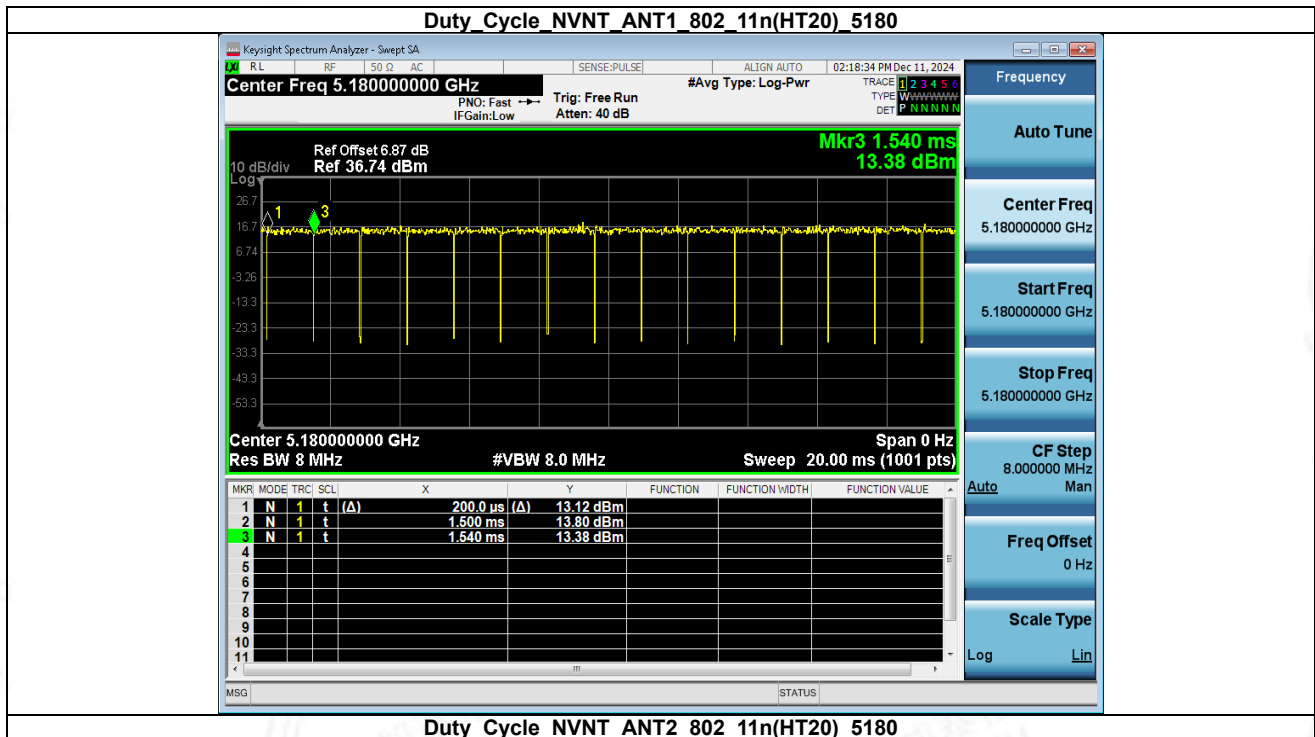
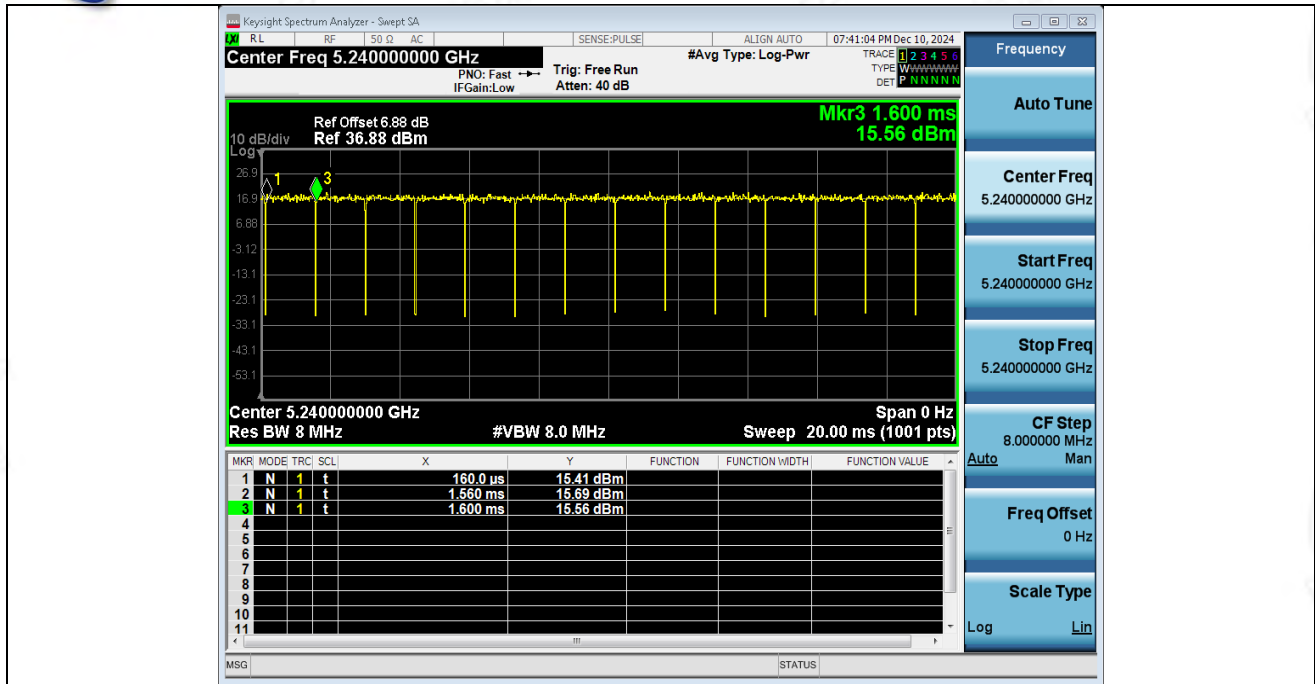
2. Duty Cycle

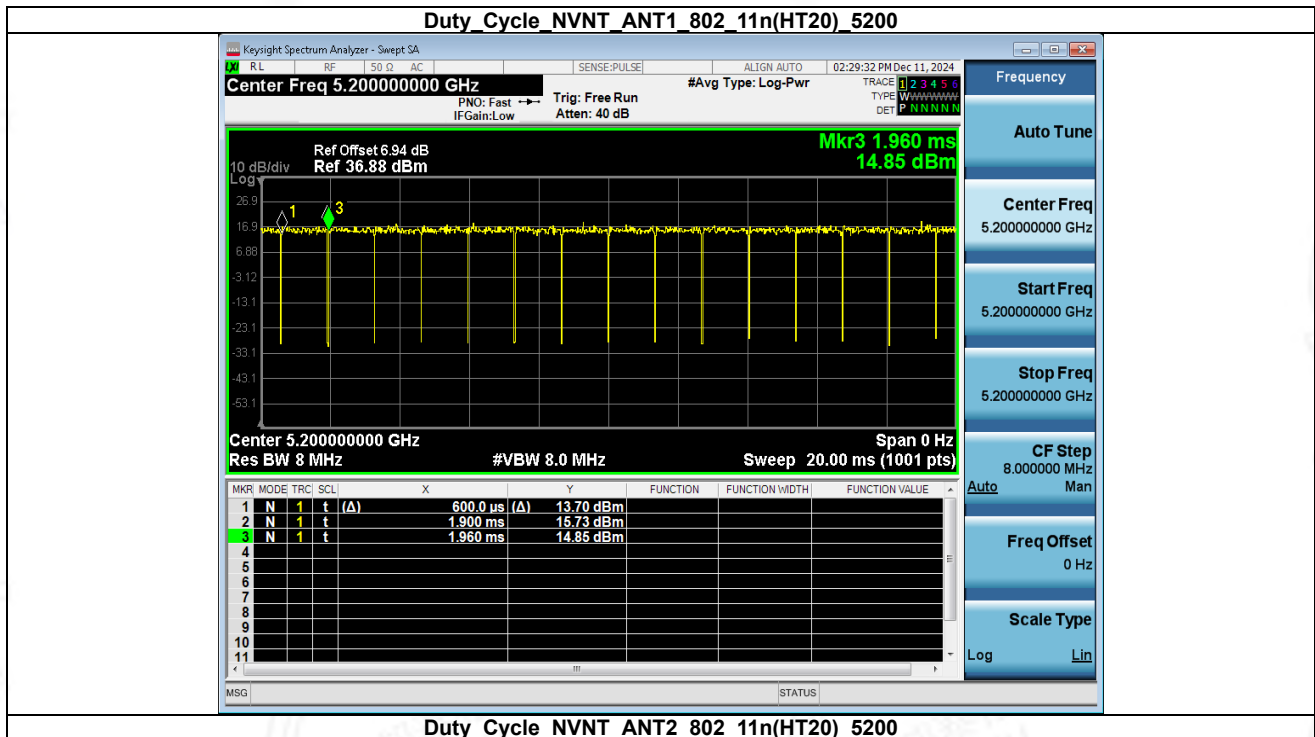
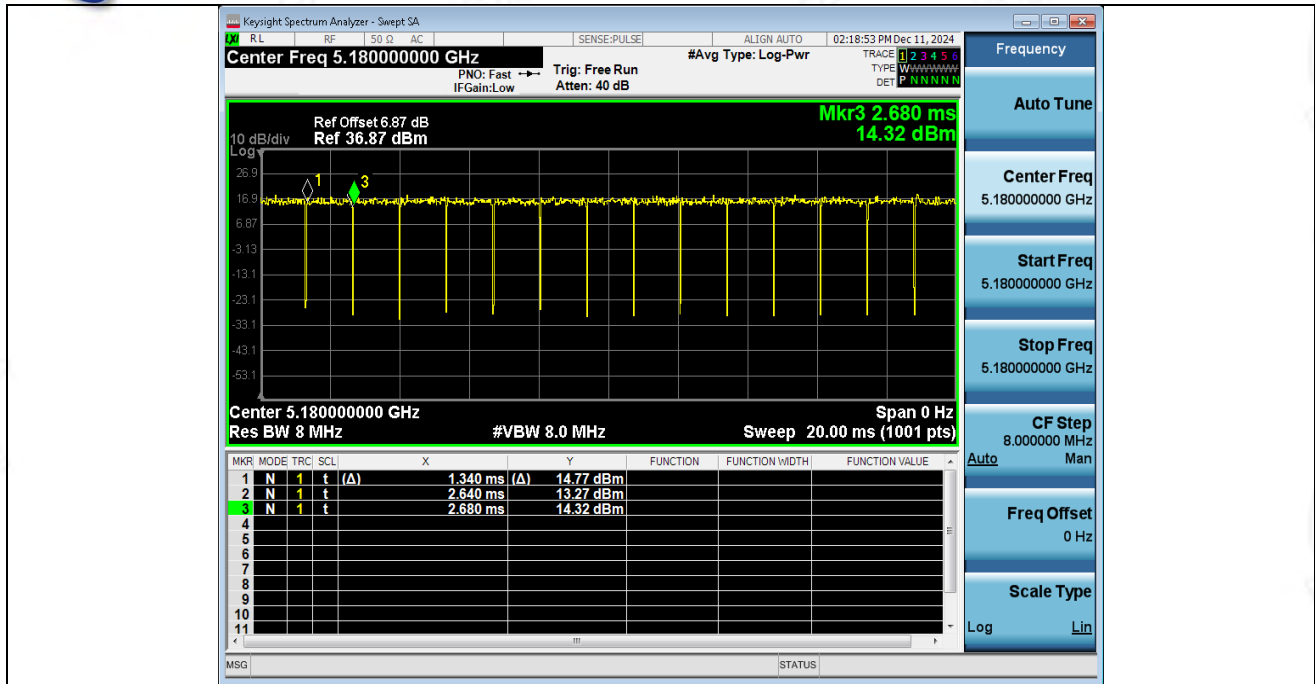
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5180.00	95.83	0.18
NVNT	ANT2	802.11a	5180.00	97.22	0.12
NVNT	ANT1	802.11a	5200.00	97.22	0.12
NVNT	ANT2	802.11a	5200.00	95.83	0.18
NVNT	ANT1	802.11a	5240.00	97.22	0.12
NVNT	ANT2	802.11a	5240.00	97.22	0.12
NVNT	ANT1	802.11n(HT20)	5180.00	97.01	0.13
NVNT	ANT2	802.11n(HT20)	5180.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5200.00	95.59	0.20
NVNT	ANT2	802.11n(HT20)	5200.00	97.01	0.13
NVNT	ANT1	802.11n(HT20)	5240.00	97.01	0.13
NVNT	ANT2	802.11n(HT20)	5240.00	97.01	0.13
NVNT	ANT1	802.11ac(VHT20)	5180.00	91.89	0.37
NVNT	ANT2	802.11ac(VHT20)	5180.00	94.44	0.25
NVNT	ANT1	802.11ac(VHT20)	5200.00	94.44	0.25
NVNT	ANT2	802.11ac(VHT20)	5200.00	94.44	0.25
NVNT	ANT1	802.11ac(VHT20)	5240.00	94.44	0.25
NVNT	ANT2	802.11ac(VHT20)	5240.00	94.44	0.25
NVNT	ANT1	802.11n(HT40)	5190.00	94.12	0.26
NVNT	ANT2	802.11n(HT40)	5190.00	91.43	0.39
NVNT	ANT1	802.11n(HT40)	5230.00	94.12	0.26
NVNT	ANT2	802.11n(HT40)	5230.00	94.12	0.26
NVNT	ANT1	802.11ac(VHT40)	5190.00	89.47	0.48
NVNT	ANT2	802.11ac(VHT40)	5190.00	90.00	0.46
NVNT	ANT1	802.11ac(VHT40)	5230.00	89.47	0.48
NVNT	ANT2	802.11ac(VHT40)	5230.00	90.00	0.46
NVNT	ANT1	802.11ac(VHT80)	5210.00	83.33	0.79
NVNT	ANT2	802.11ac(VHT80)	5210.00	81.82	0.87

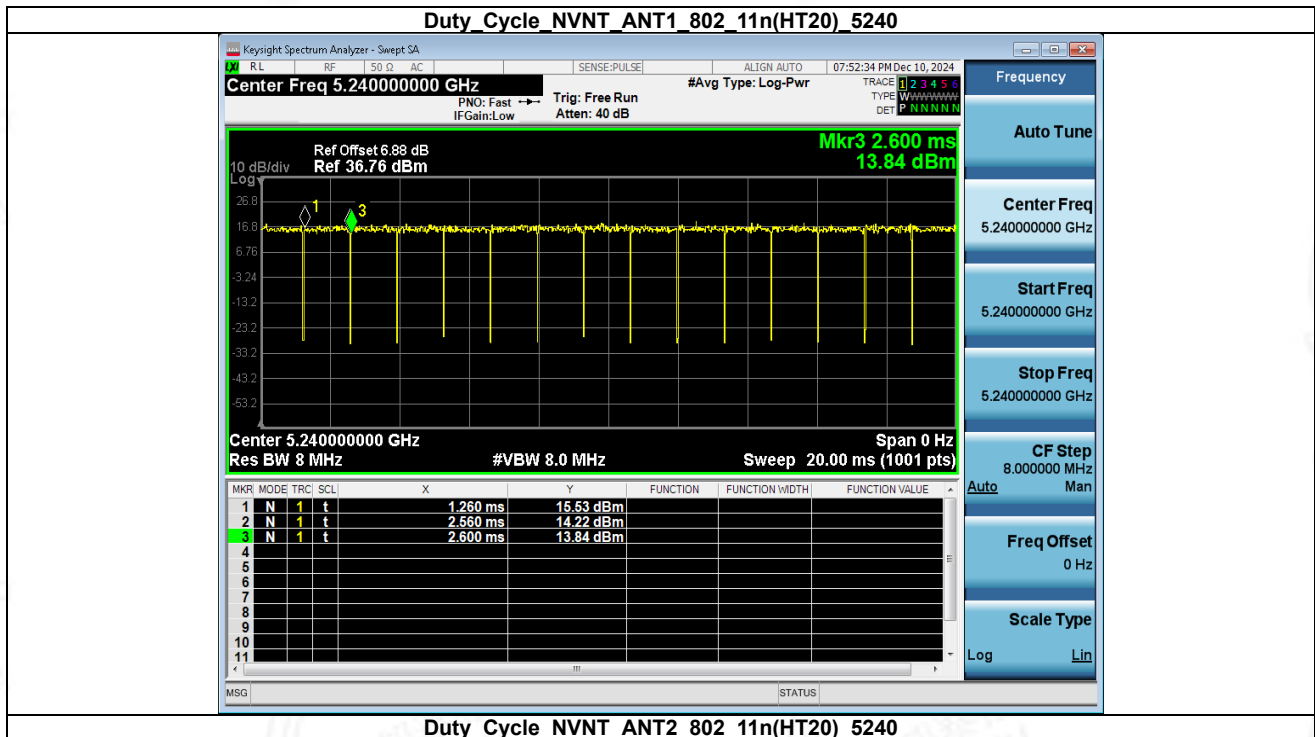
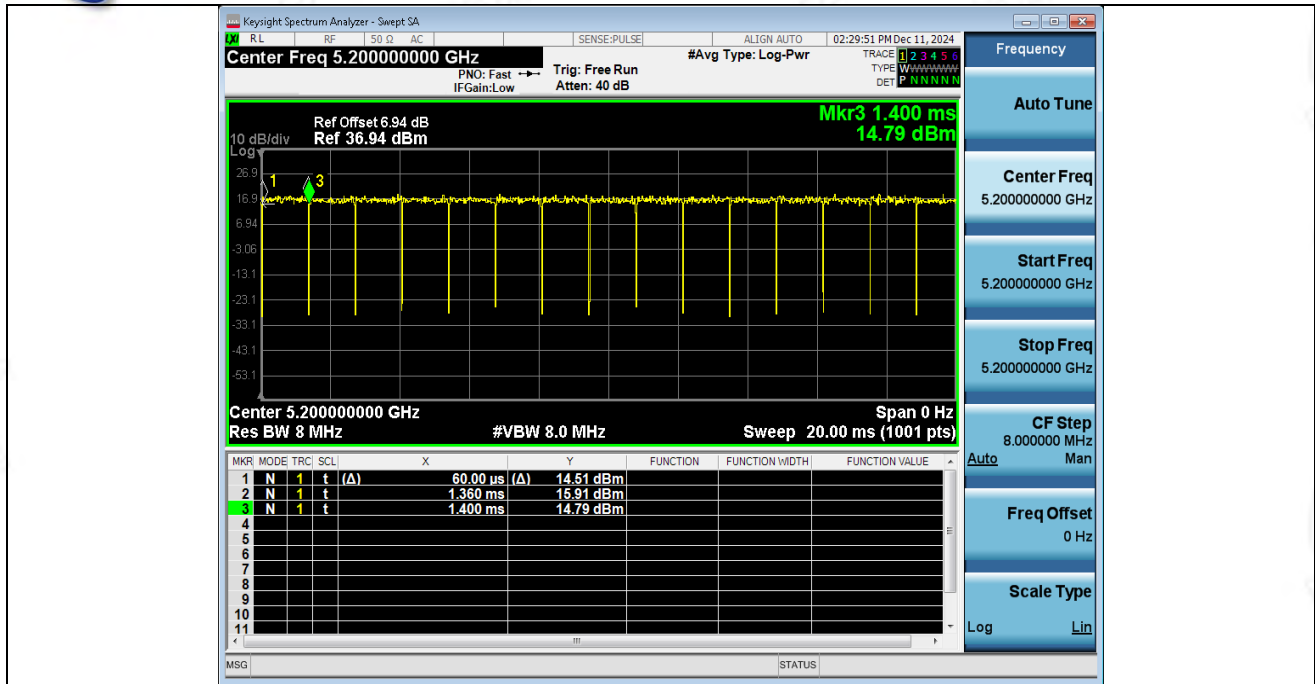


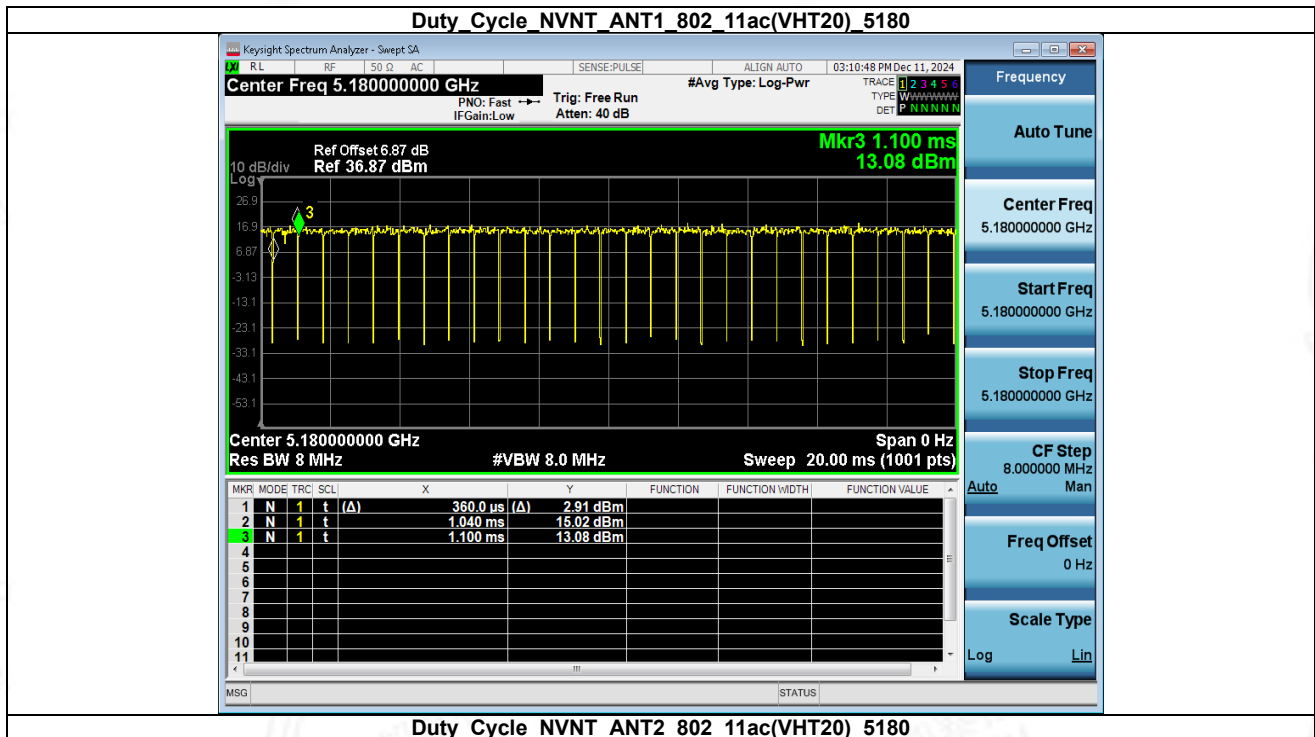
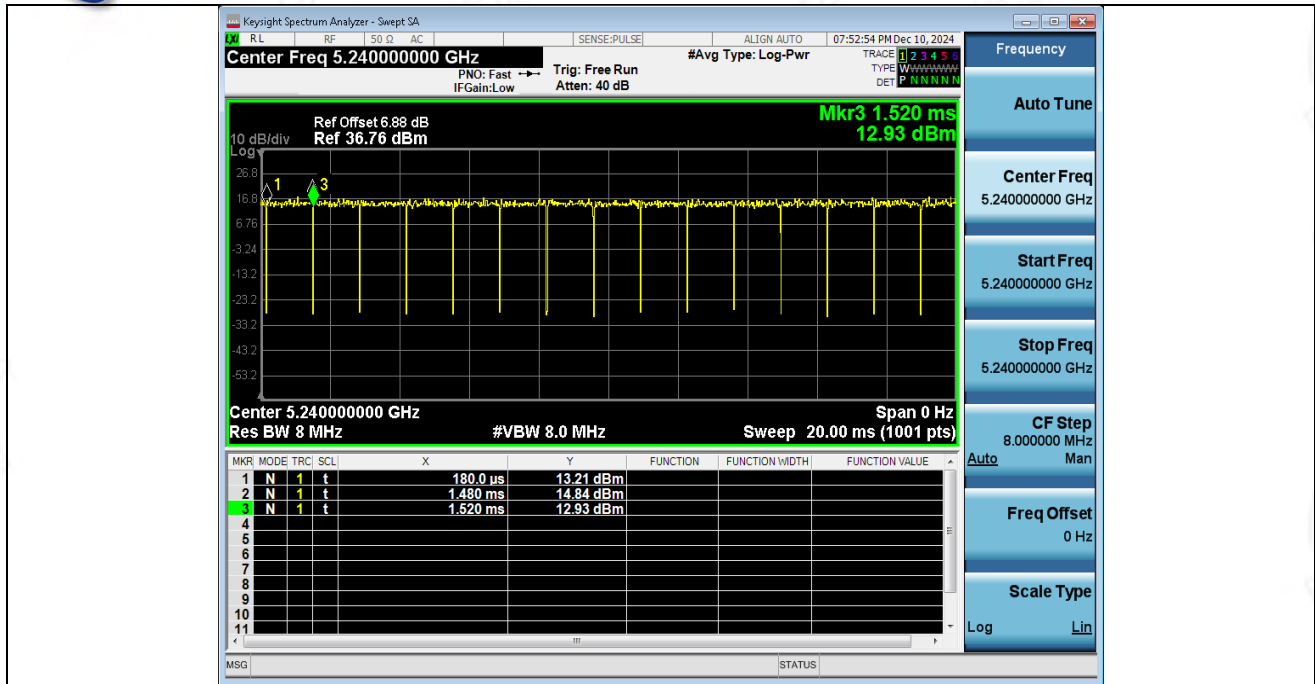


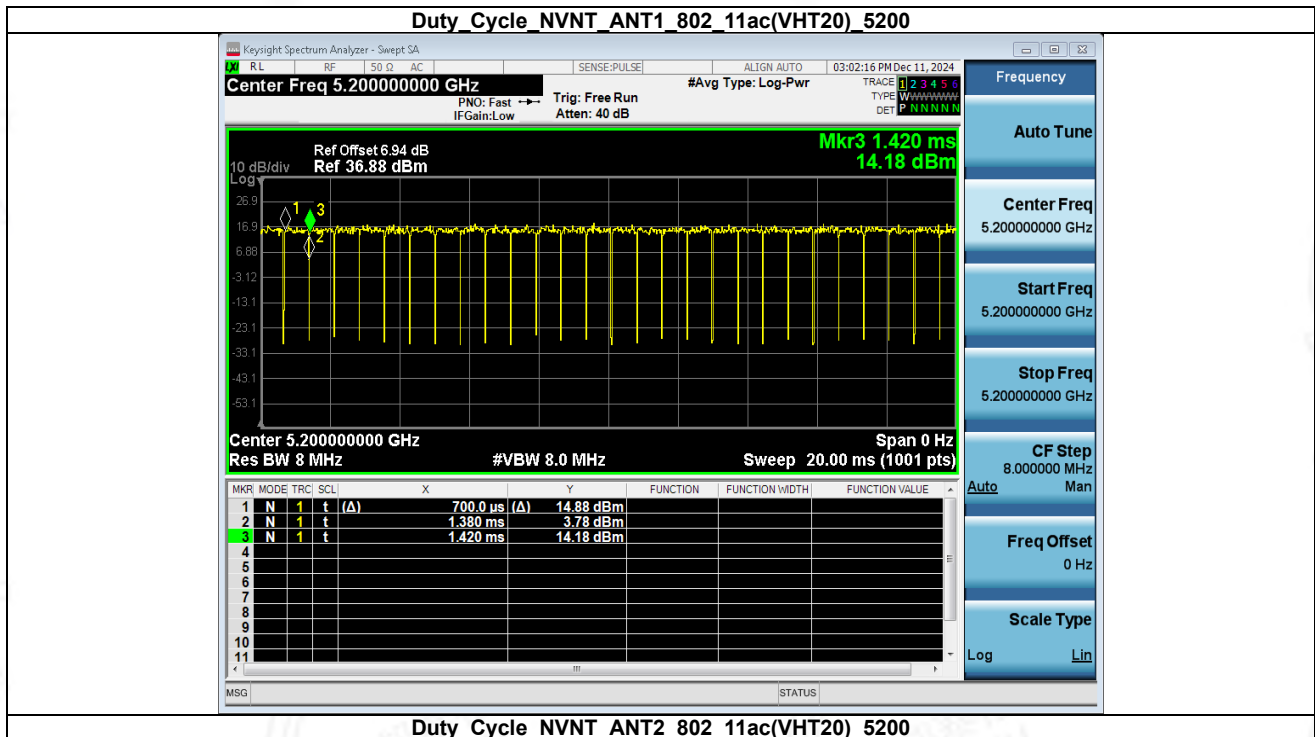
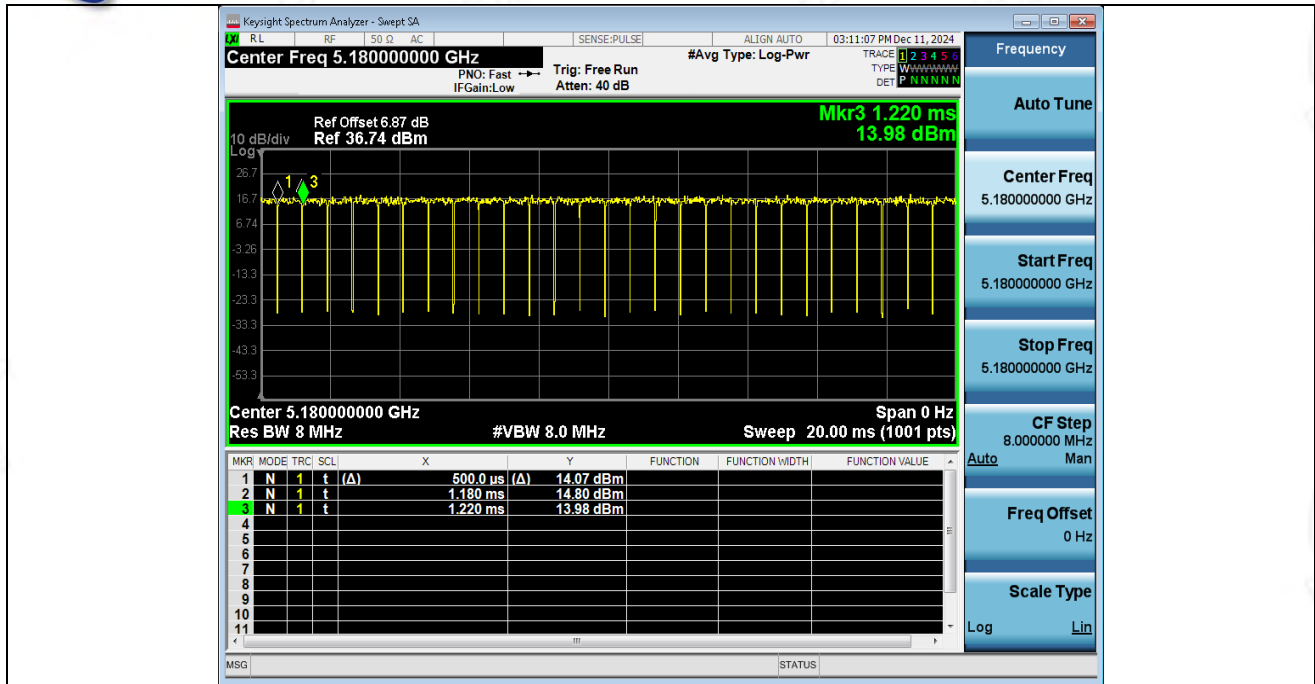


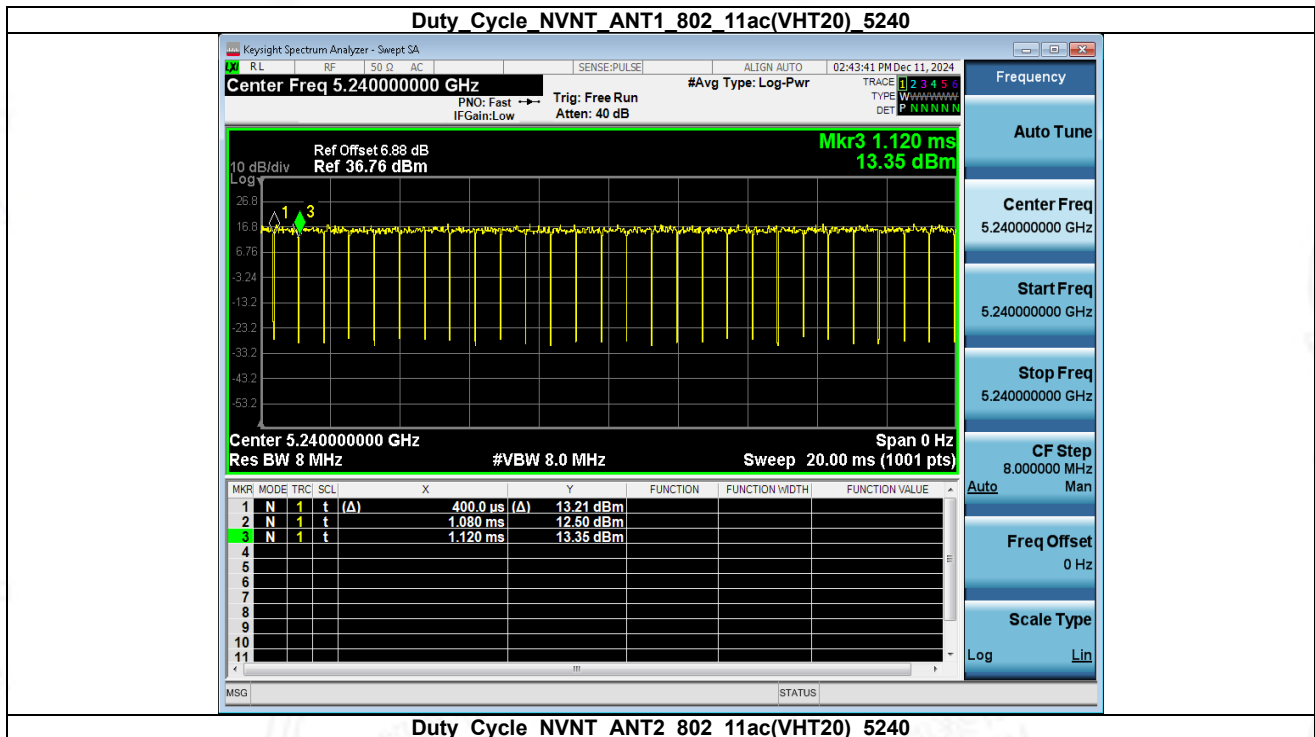
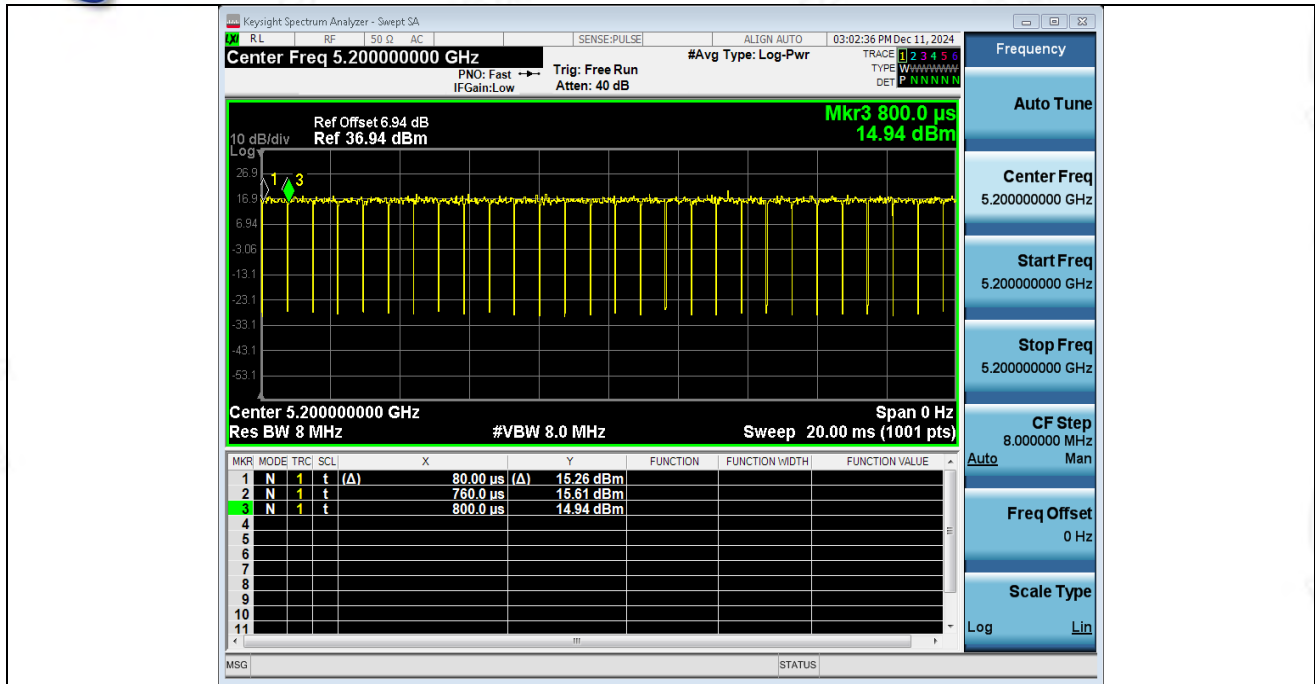


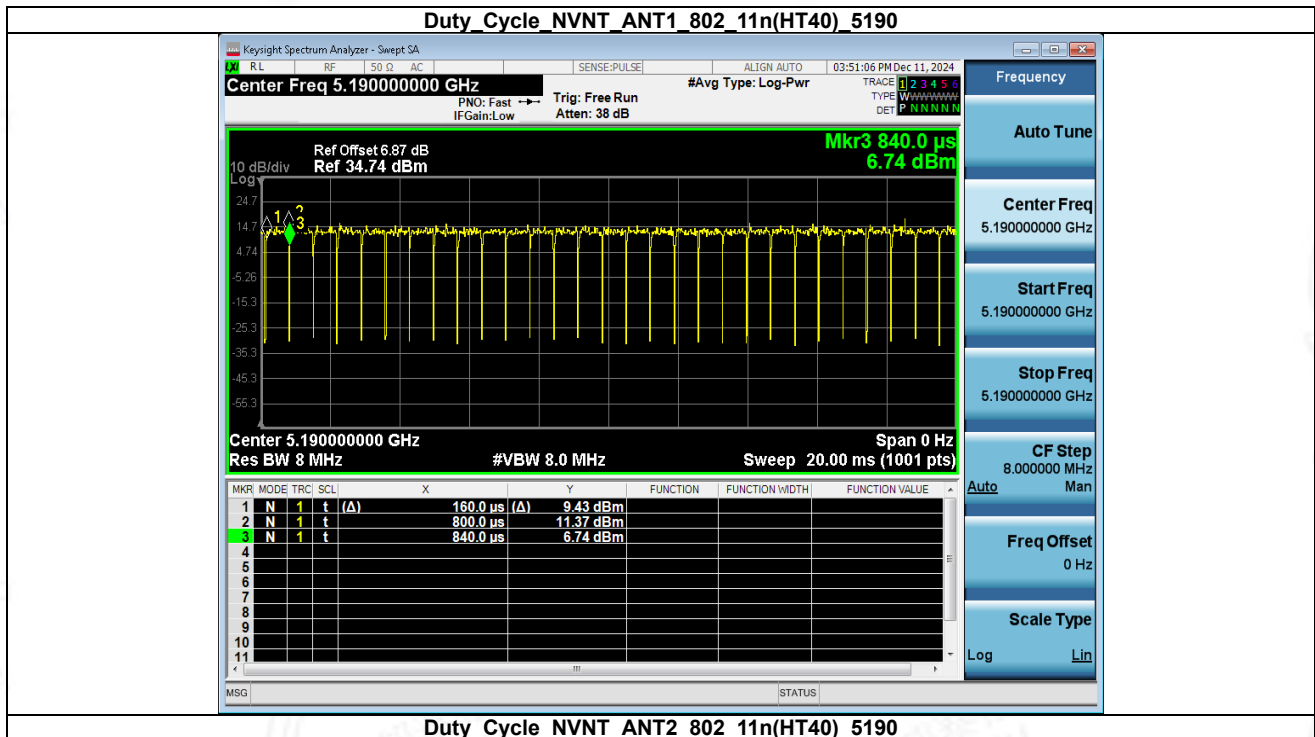
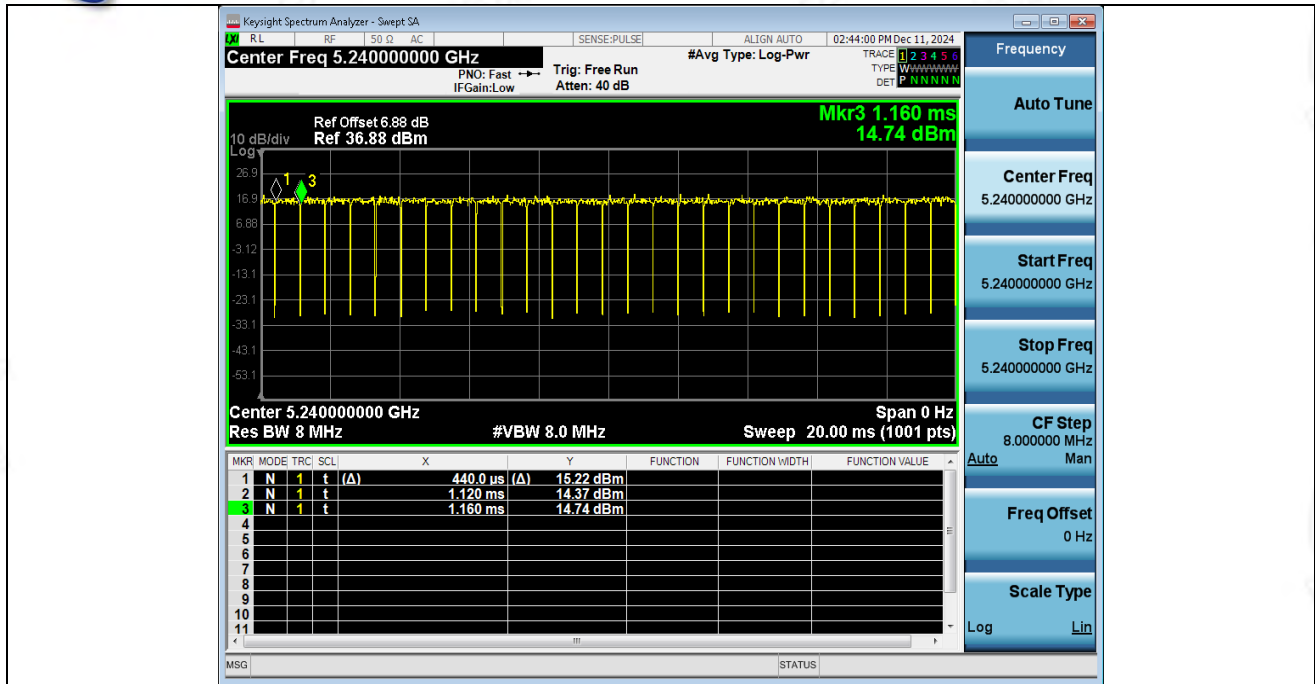


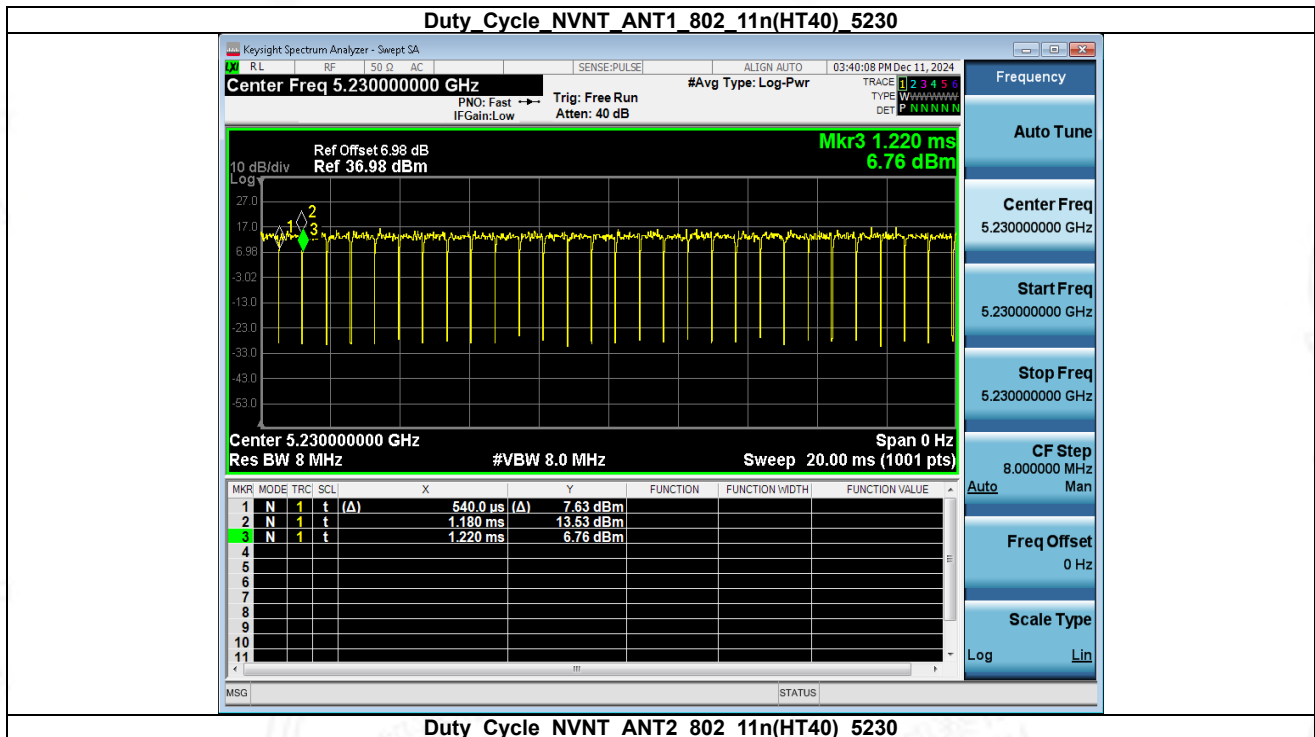
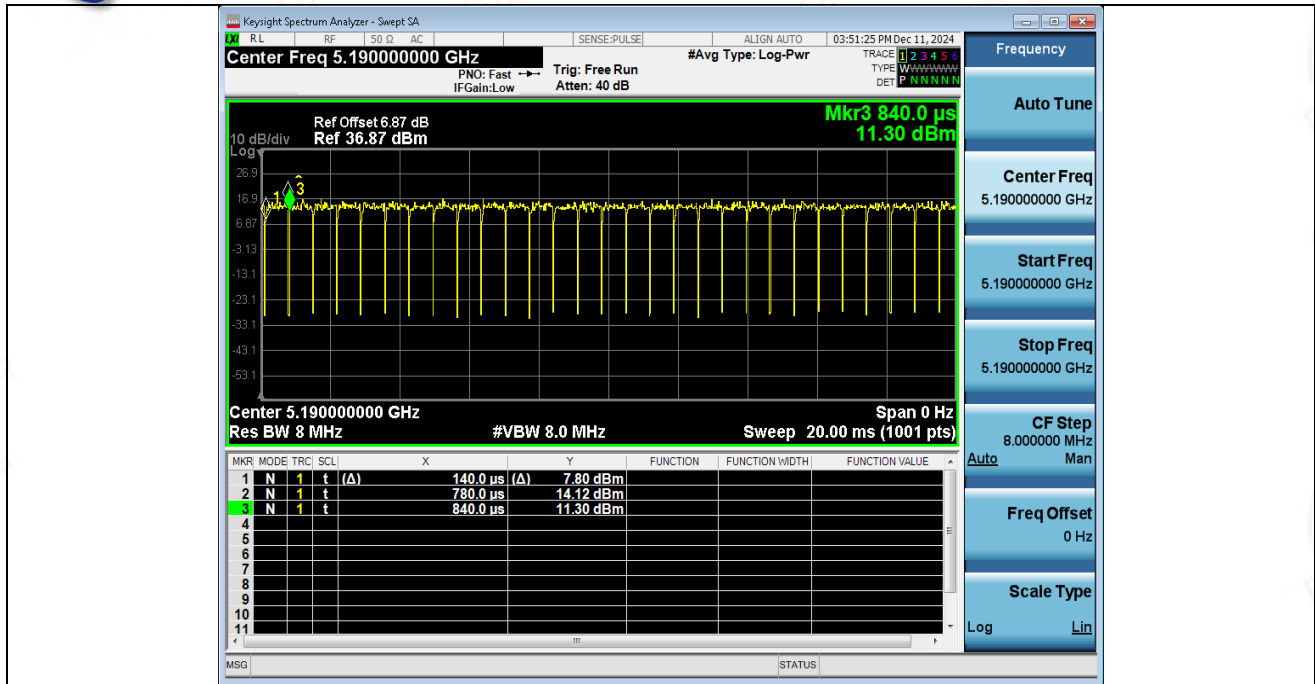


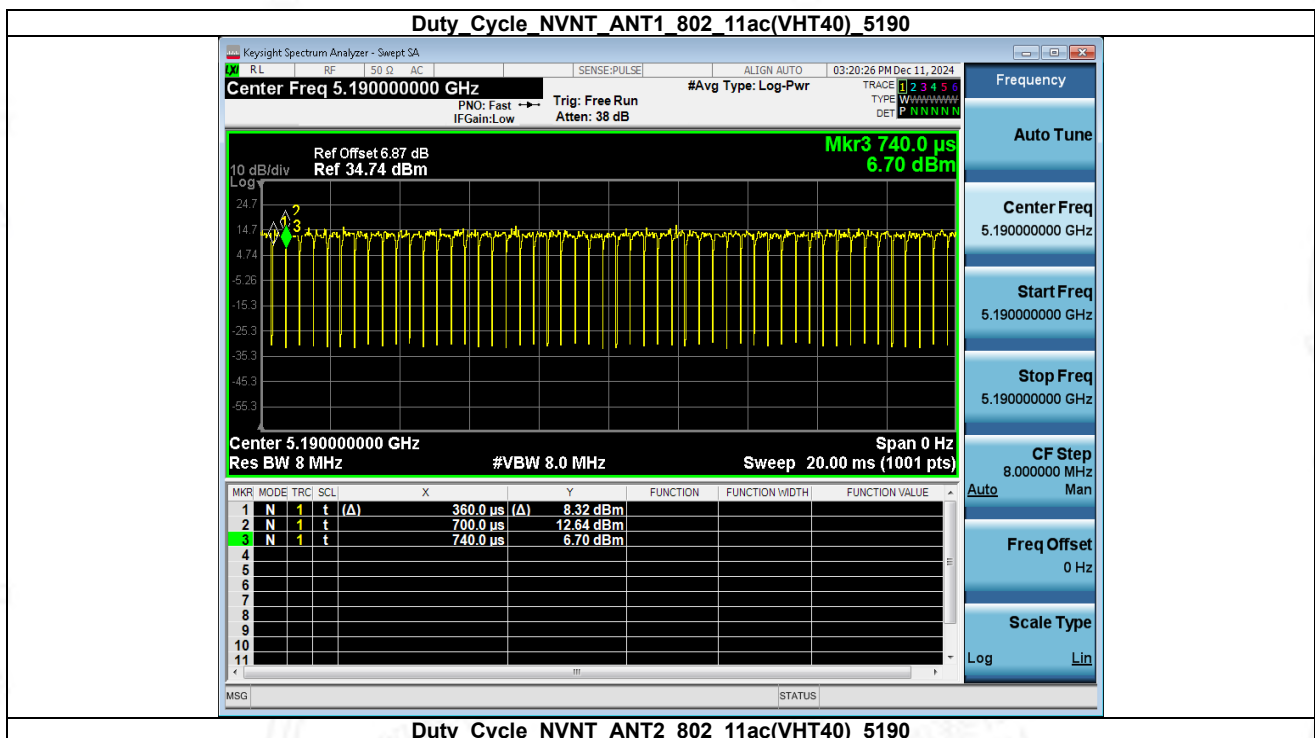
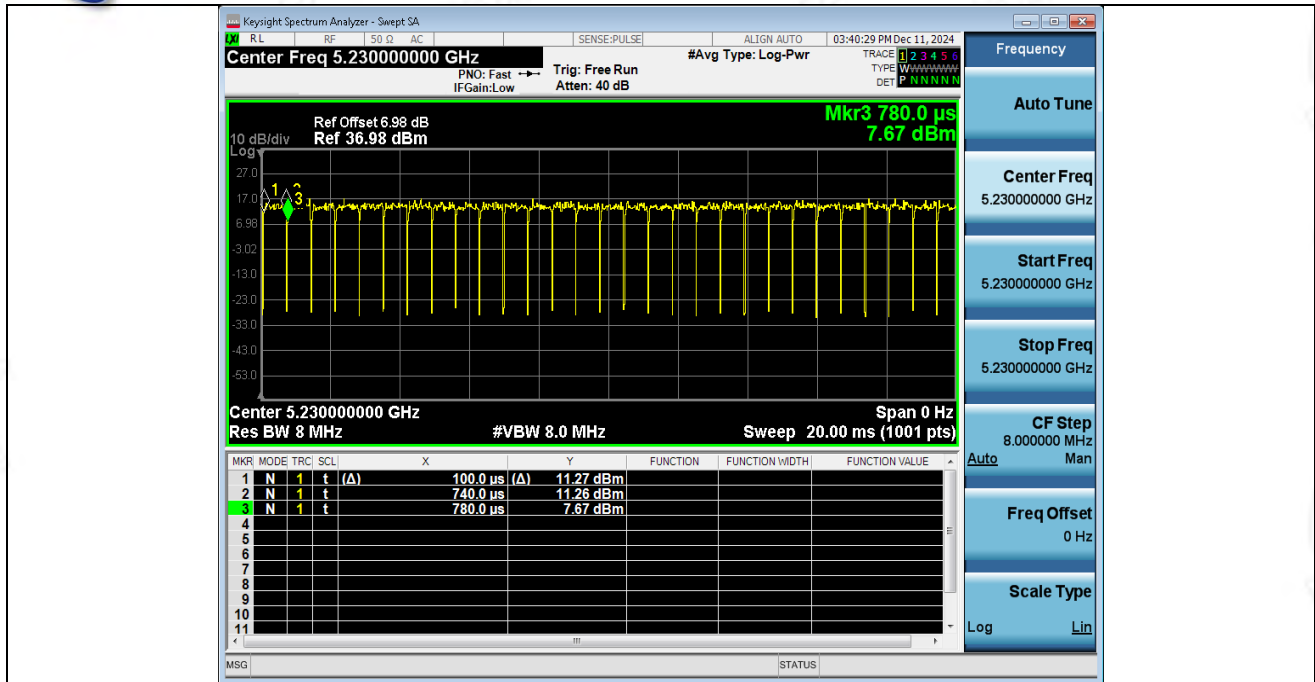


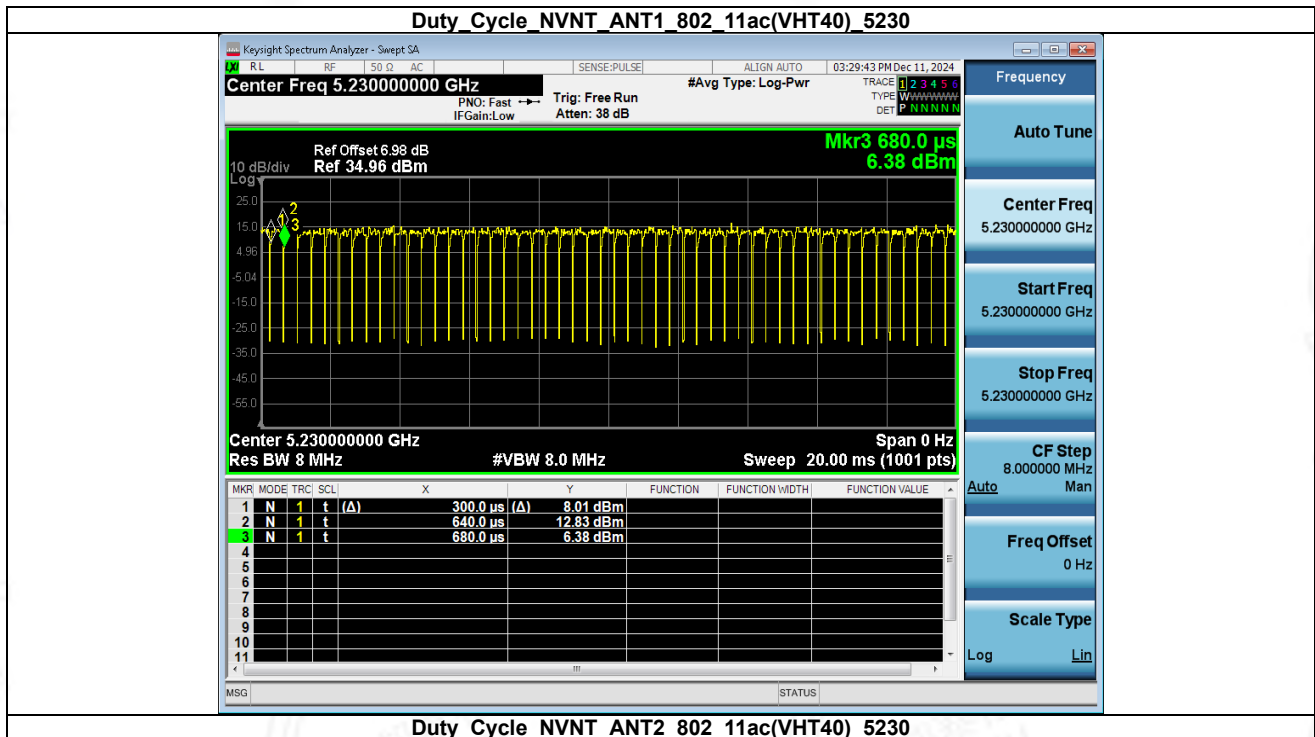
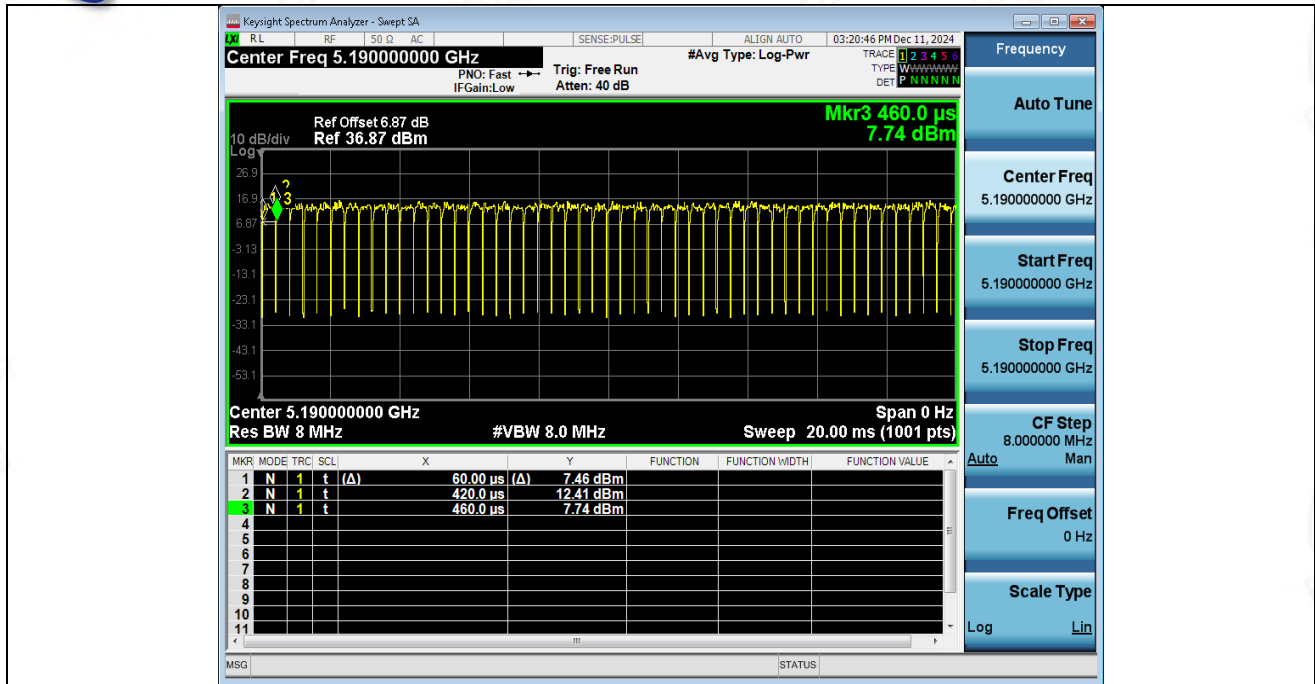


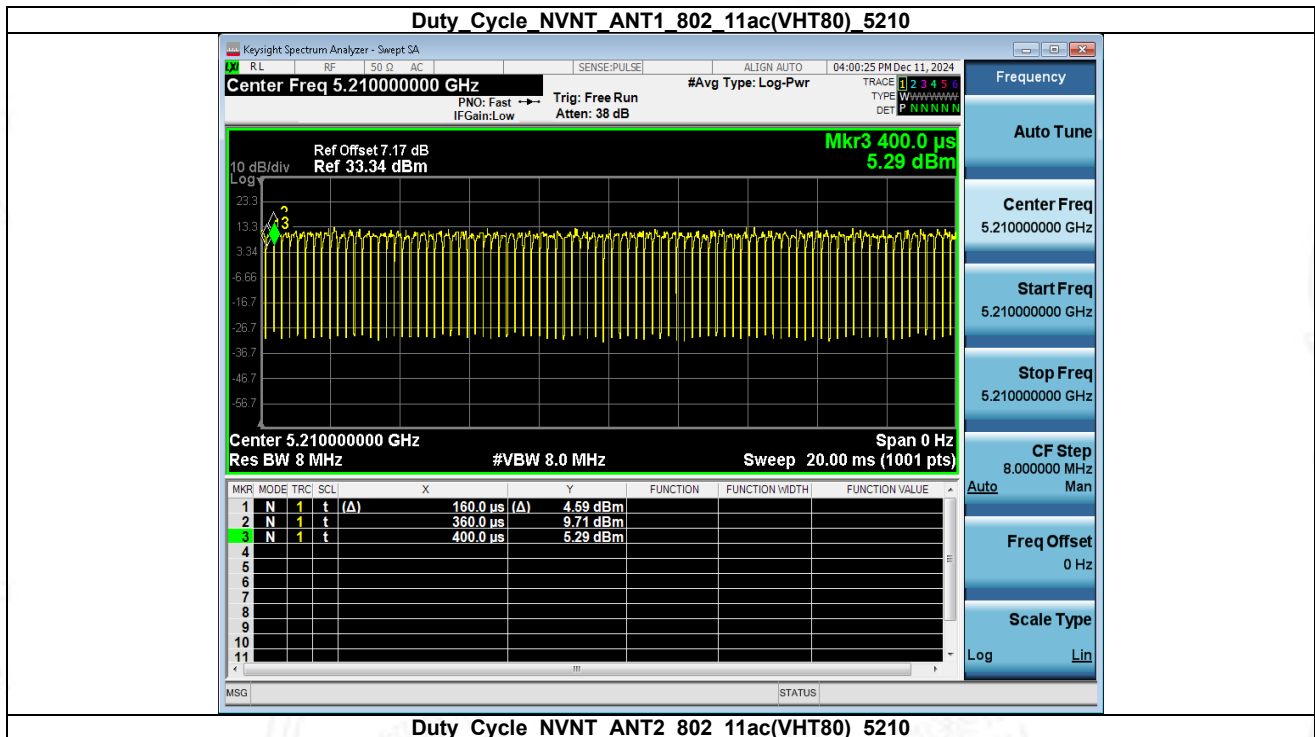
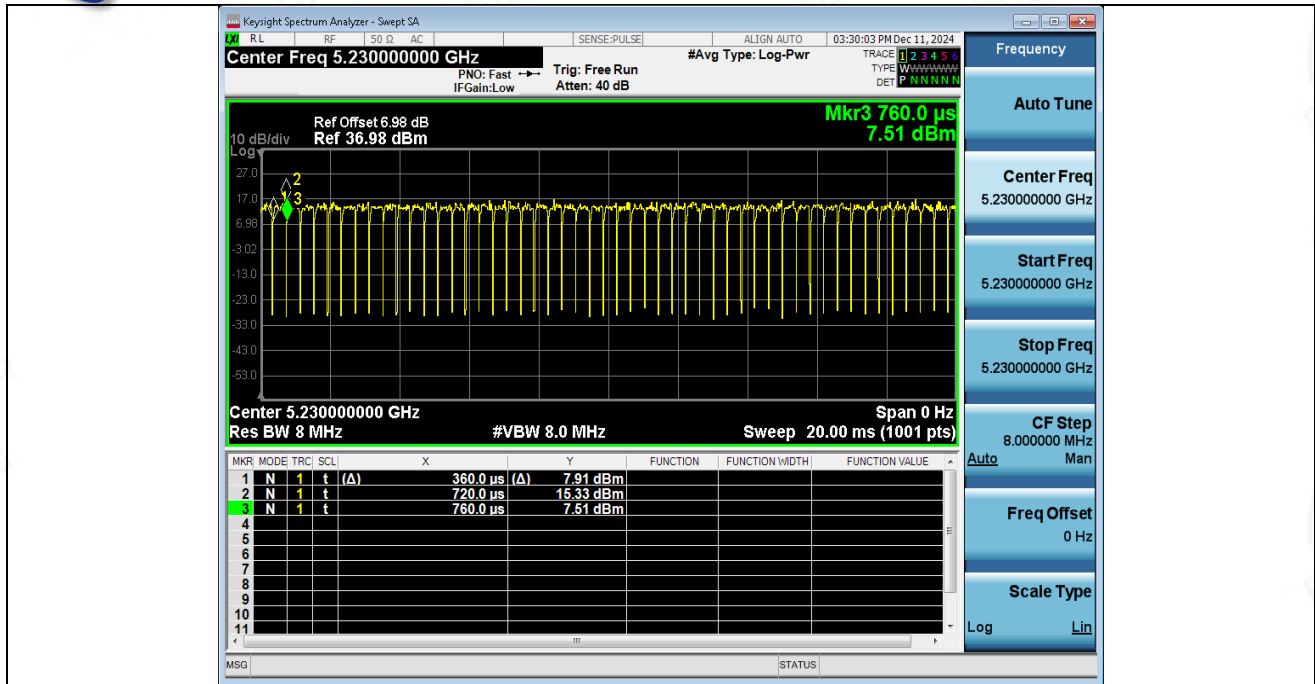


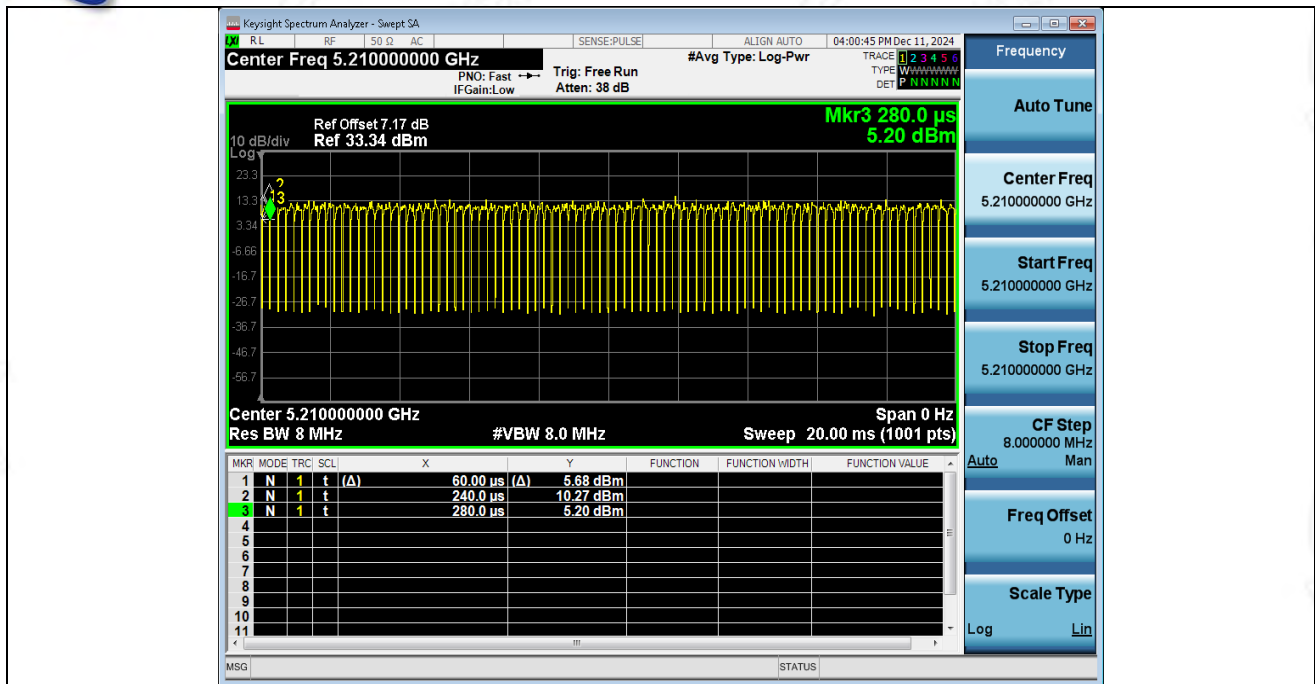








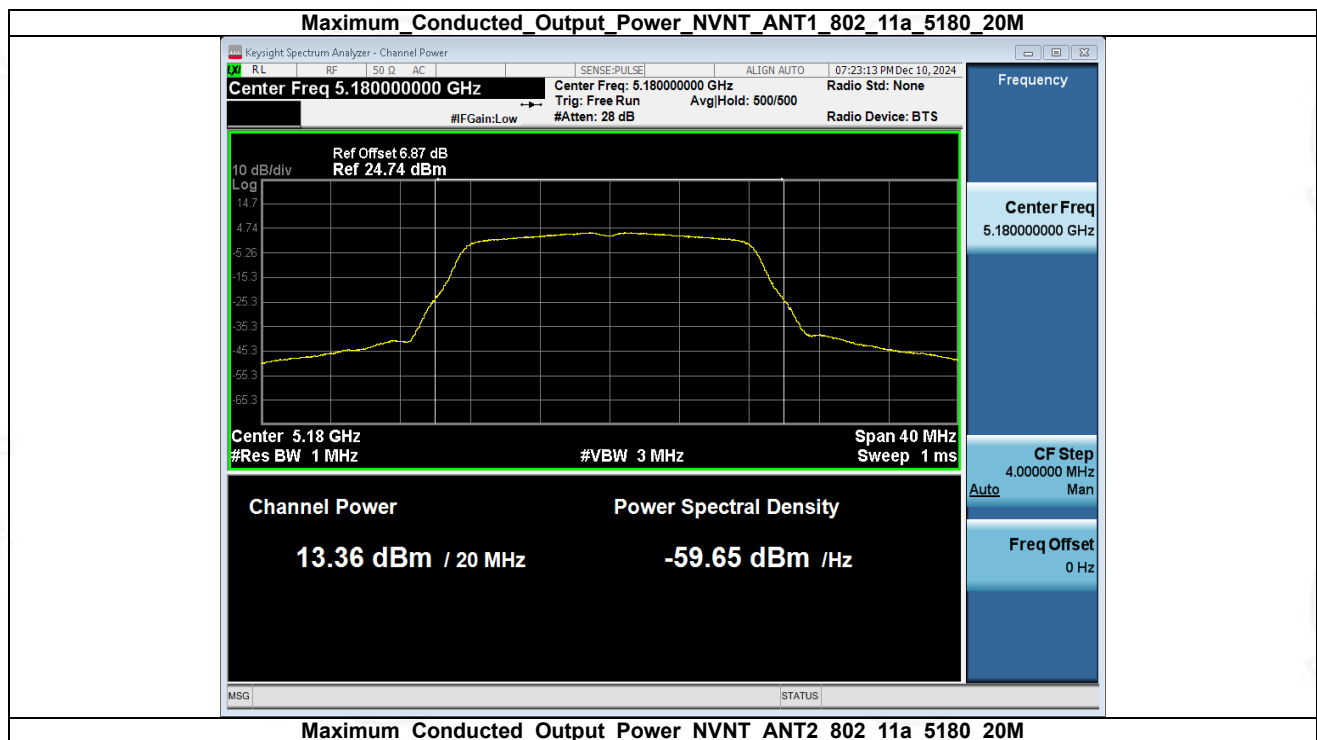




3. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5180.00	13.36	0.18	13.54	24	Pass
NVNT	ANT2	802.11a	5180.00	12.80	0.12	12.92	24	Pass
NVNT	ANT1	802.11a	5200.00	13.59	0.12	13.71	24	Pass
NVNT	ANT2	802.11a	5200.00	12.84	0.18	13.02	24	Pass
NVNT	ANT1	802.11a	5240.00	13.55	0.12	13.67	24	Pass
NVNT	ANT2	802.11a	5240.00	12.57	0.12	12.69	24	Pass
NVNT	ANT1	802.11n(HT20)	5180.00	10.66	0.13	10.79	24	Pass
NVNT	ANT2	802.11n(HT20)	5180.00	11.36	0.13	11.49	24	Pass
NVNT	ANT1	802.11n(HT20)	5200.00	11.02	0.20	11.22	24	Pass
NVNT	ANT2	802.11n(HT20)	5200.00	11.74	0.13	11.87	24	Pass
NVNT	ANT1	802.11n(HT20)	5240.00	10.92	0.13	11.05	24	Pass
NVNT	ANT2	802.11n(HT20)	5240.00	9.88	0.13	10.01	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5180.00	10.44	0.37	10.81	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5180.00	11.16	0.25	11.41	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5200.00	10.90	0.25	11.15	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5200.00	11.61	0.25	11.86	24	Pass
NVNT	ANT1	802.11ac(VHT20)	5240.00	10.85	0.25	11.10	24	Pass
NVNT	ANT2	802.11ac(VHT20)	5240.00	11.36	0.25	11.61	24	Pass
NVNT	ANT1	802.11n(HT40)	5190.00	11.09	0.26	11.35	24	Pass
NVNT	ANT2	802.11n(HT40)	5190.00	11.92	0.39	12.31	24	Pass
NVNT	ANT1	802.11n(HT40)	5230.00	11.46	0.26	11.72	24	Pass
NVNT	ANT2	802.11n(HT40)	5230.00	12.05	0.26	12.31	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5190.00	10.77	0.48	11.25	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5190.00	11.65	0.46	12.11	24	Pass
NVNT	ANT1	802.11ac(VHT40)	5230.00	11.09	0.48	11.57	24	Pass
NVNT	ANT2	802.11ac(VHT40)	5230.00	11.78	0.46	12.24	24	Pass
NVNT	ANT1	802.11ac(VHT80)	5210.00	10.79	0.79	11.58	24	Pass
NVNT	ANT2	802.11ac(VHT80)	5210.00	11.46	0.87	12.33	24	Pass

Maximum Conducted Output Power_NVNT_ANT1_802_11a_5180_20M



Maximum Conducted Output Power_NVNT_ANT2_802_11a_5180_20M



