

Table of Contents

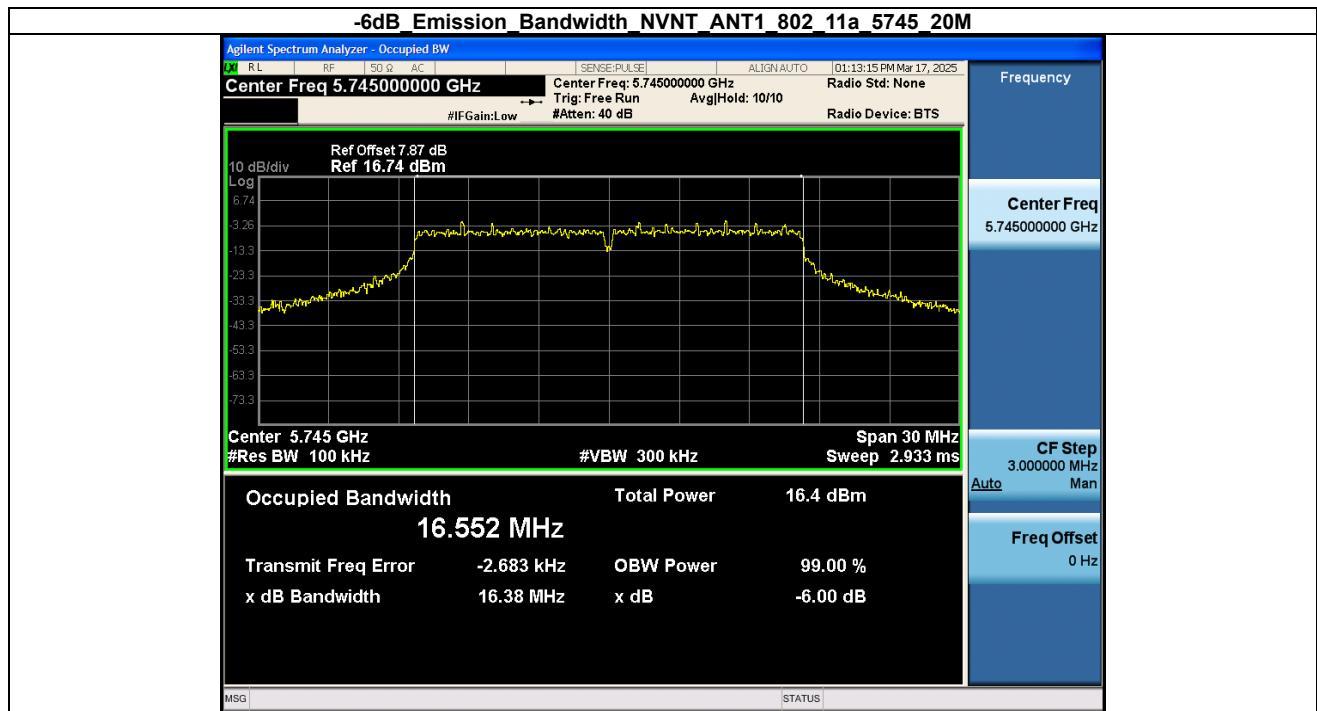
1. -6dB Emission Bandwidth	2
2. -26dB and 99% Emission Bandwidth	12
3. Duty Cycle.....	31
4. Maximum Conducted Output Power	41
5. Power Spectral Density	51
5. Frequency Stability	61

Model/Type reference: HY300Ultra

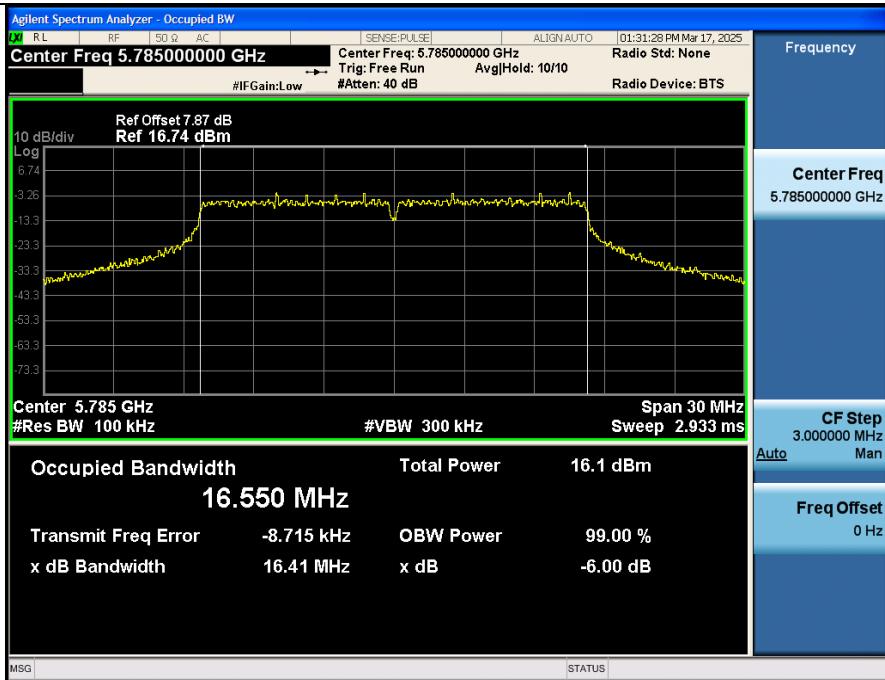
FCC_5.8G_WIFI (Part15.407) Test Data

1. -6dB Emission Bandwidth

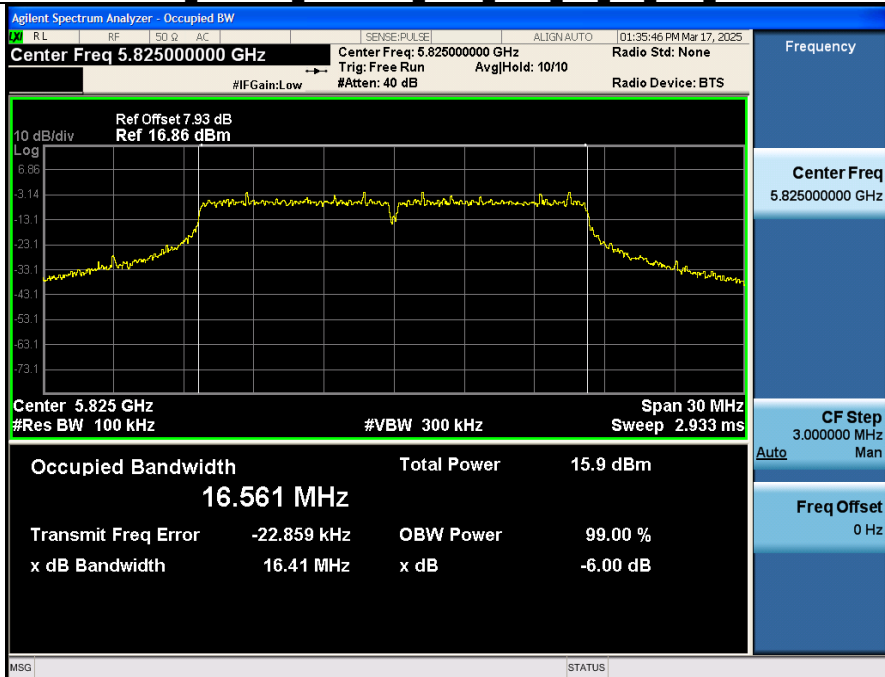
Condition	Antenna	Mode	Frequency(MHz)	-6dB_Emission_Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	16.380	0.500	Pass
NVNT	ANT1	802.11a	5785.00	16.413	0.500	Pass
NVNT	ANT1	802.11a	5825.00	16.409	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	17.635	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	17.658	0.500	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	17.632	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	17.646	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	17.624	0.500	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	17.717	0.500	Pass
NVNT	ANT1	802.11ax(HE20)	5745.00	18.906	0.500	Pass
NVNT	ANT1	802.11ax(HE20)	5785.00	18.873	0.500	Pass
NVNT	ANT1	802.11ax(HE20)	5825.00	19.054	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	36.400	0.500	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	36.378	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	36.414	0.500	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	36.403	0.500	Pass
NVNT	ANT1	802.11ax(HE40)	5755.00	38.146	0.500	Pass
NVNT	ANT1	802.11ax(HE40)	5795.00	38.044	0.500	Pass



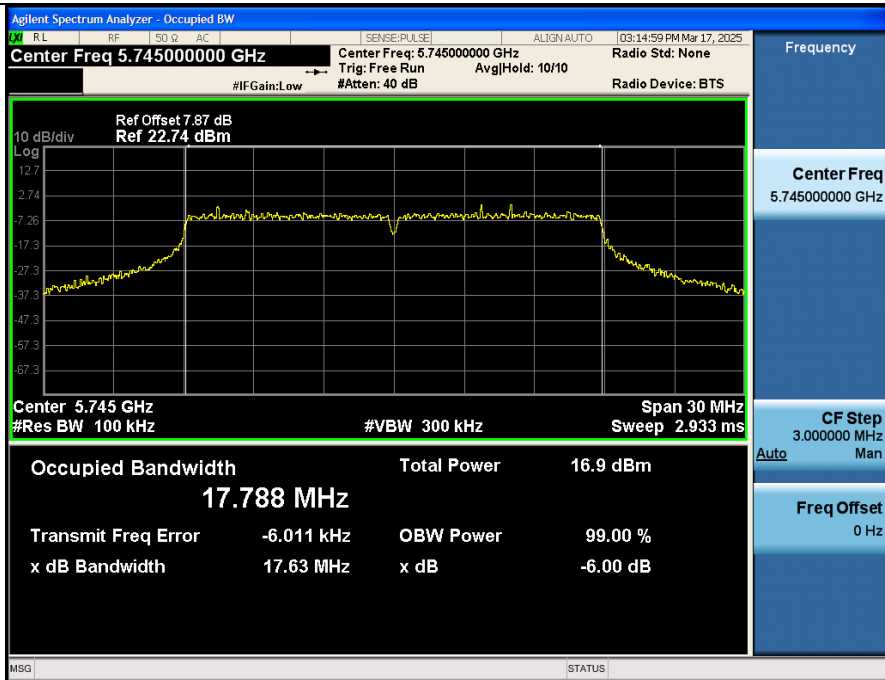
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5785_20M



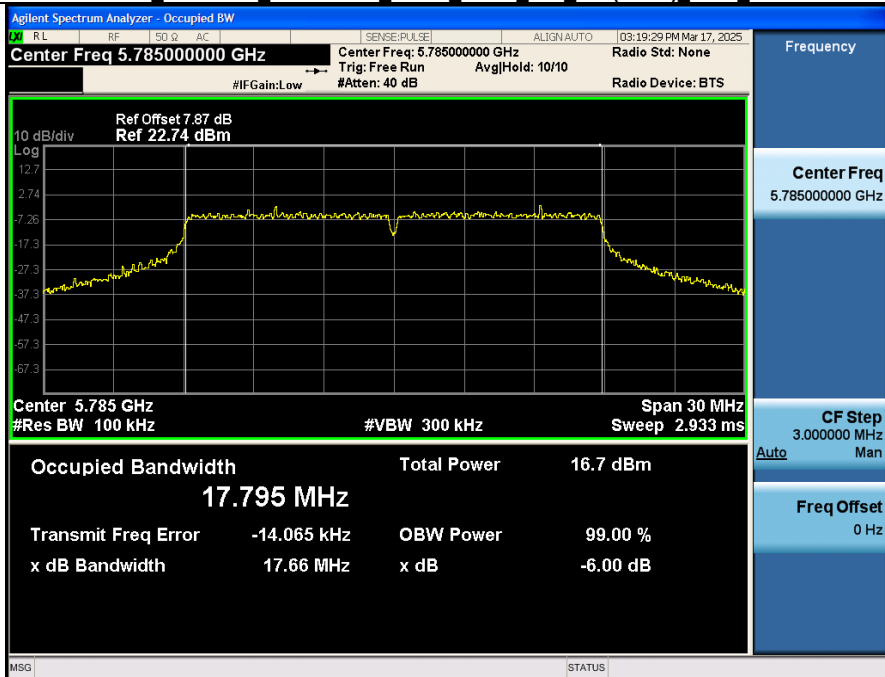
-6dB Emission Bandwidth NVNT ANT1 802 11a 5825 20M



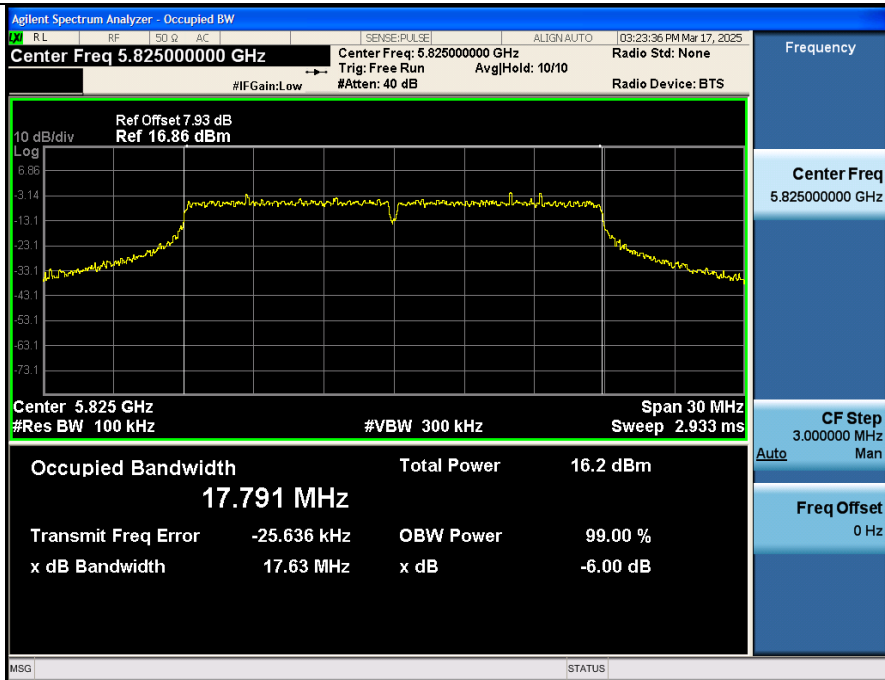
-6dB Emission Bandwidth NVNT ANT1 802 11n(HT20) 5745 20M



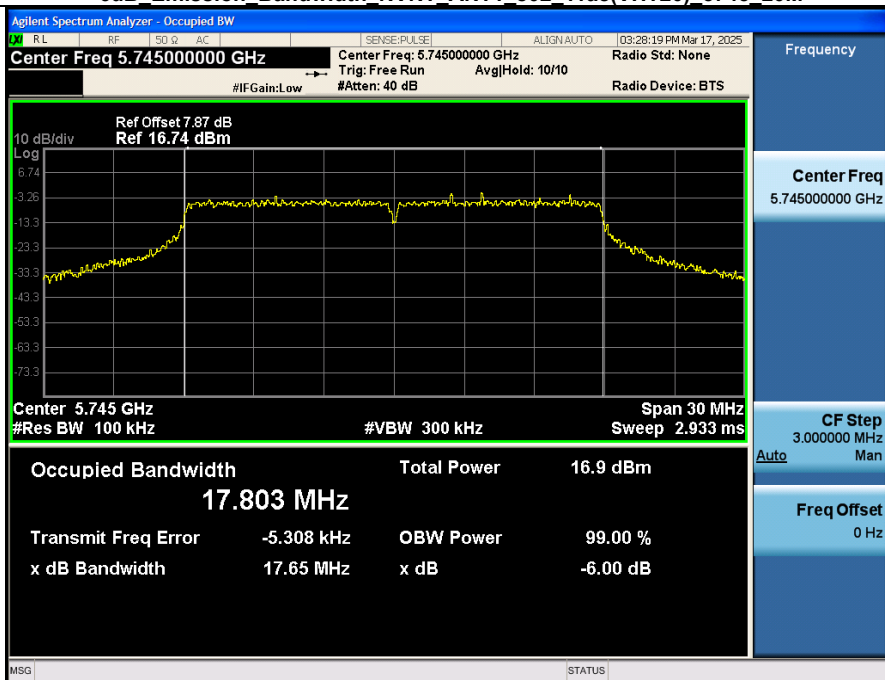
-6dB Emission Bandwidth NVNT ANT1_802_11n(HT20) 5785 20M



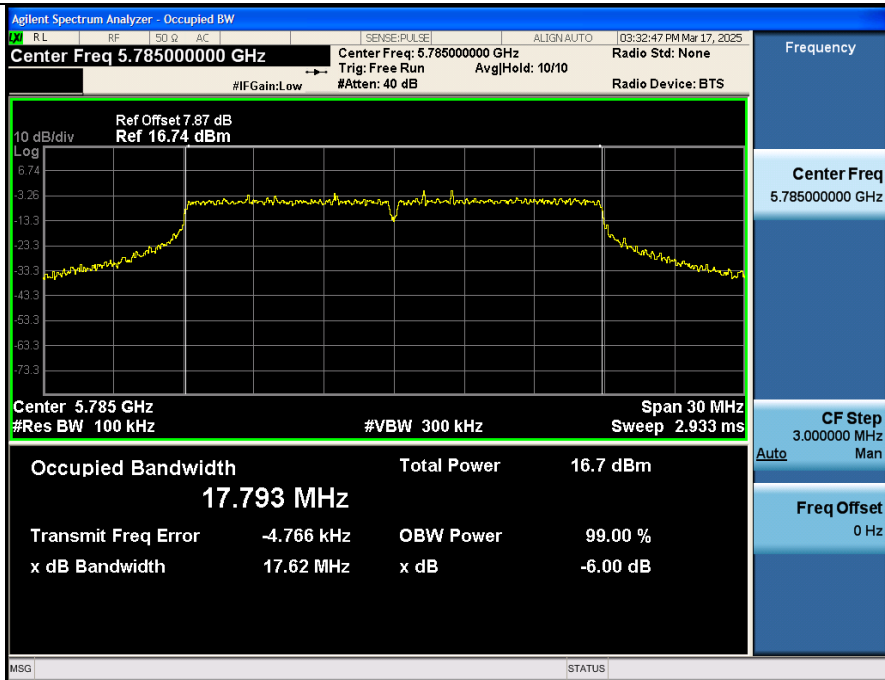
-6dB Emission Bandwidth NVNT ANT1_802_11n(HT20) 5825 20M



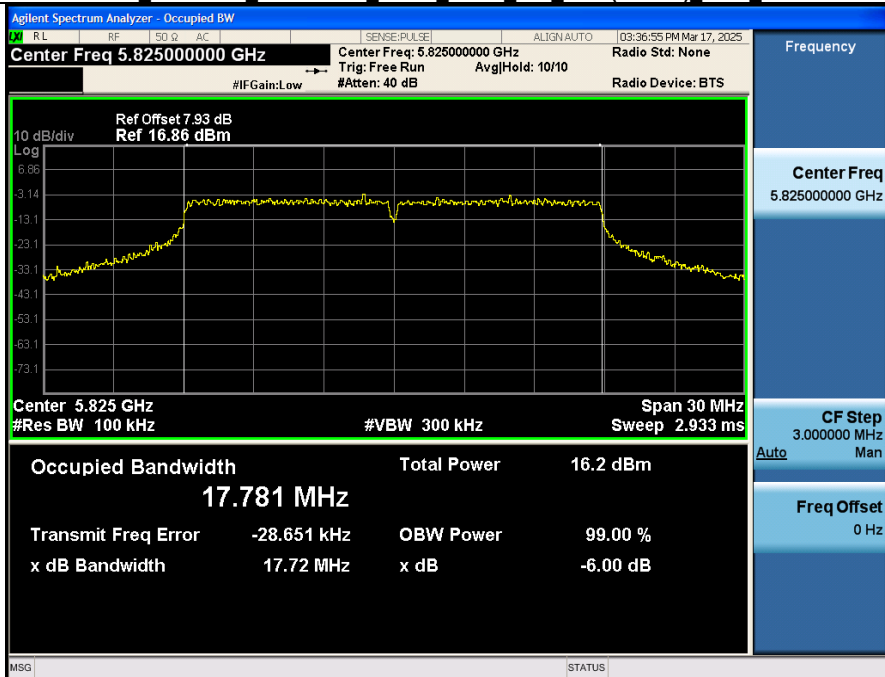
-6dB Emission Bandwidth NVNT_ANT1_802_11ac(VHT20)_5745_20M



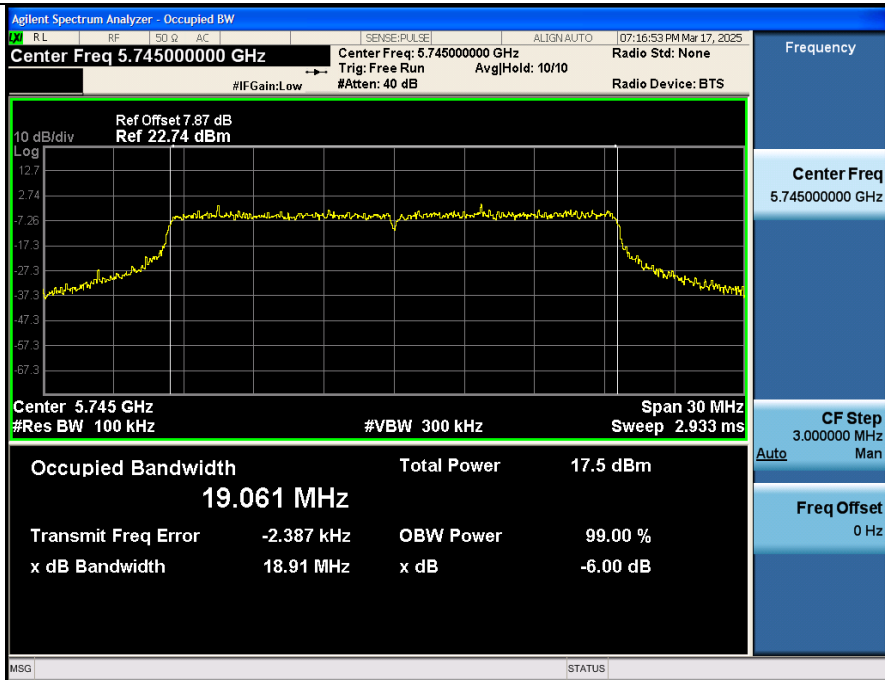
-6dB Emission Bandwidth NVNT_ANT1_802_11ac(VHT20)_5785_20M



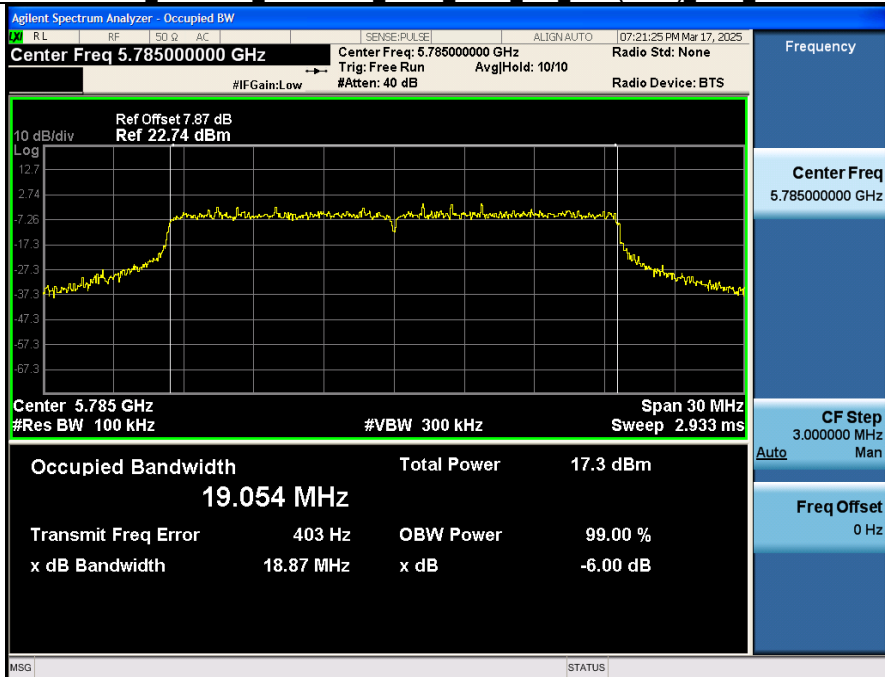
-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT20) 5825 20M



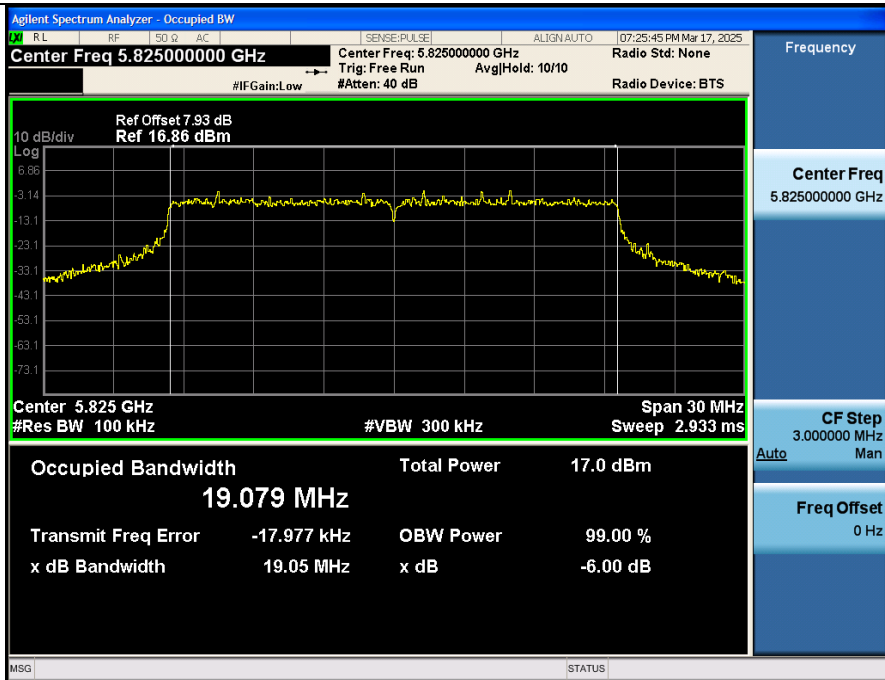
-6dB Emission Bandwidth NVNT ANT1 802 11ax(HE20) 5745 20M



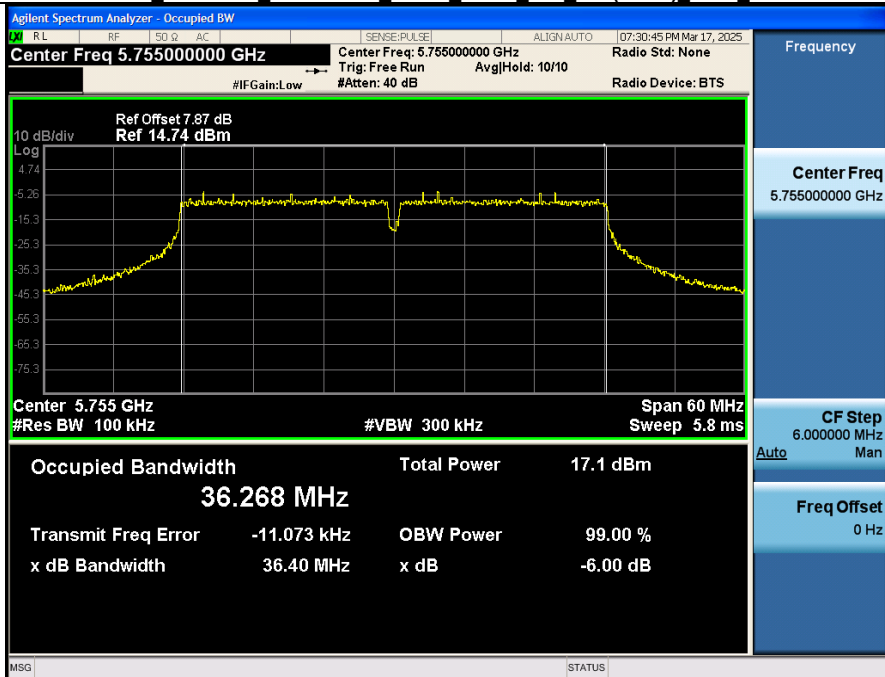
-6dB Emission Bandwidth_NVNT_ANT1_802_11ax(HE20)_5785_20M



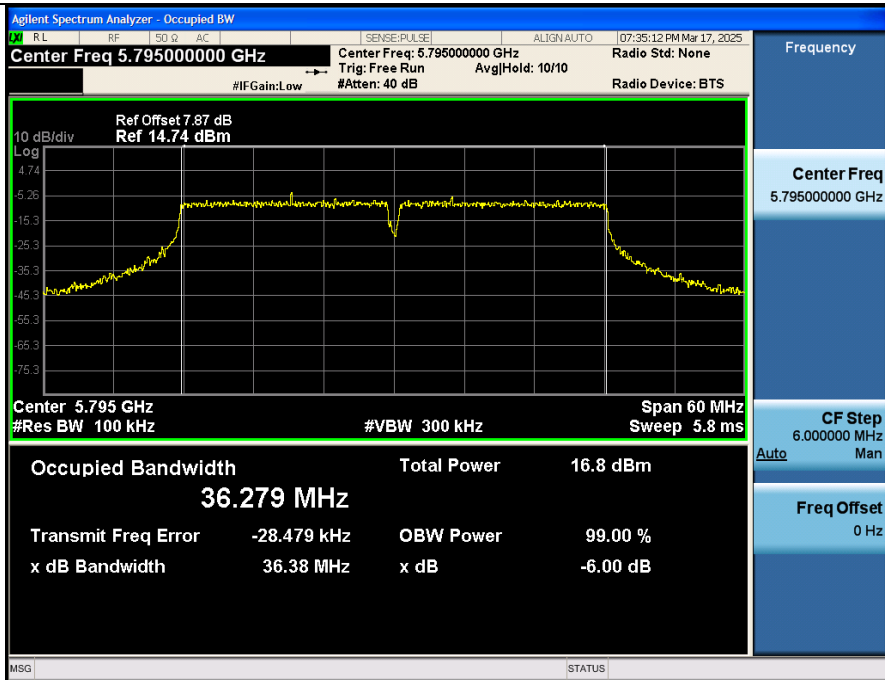
-6dB Emission Bandwidth_NVNT_ANT1_802_11ax(HE20)_5825_20M



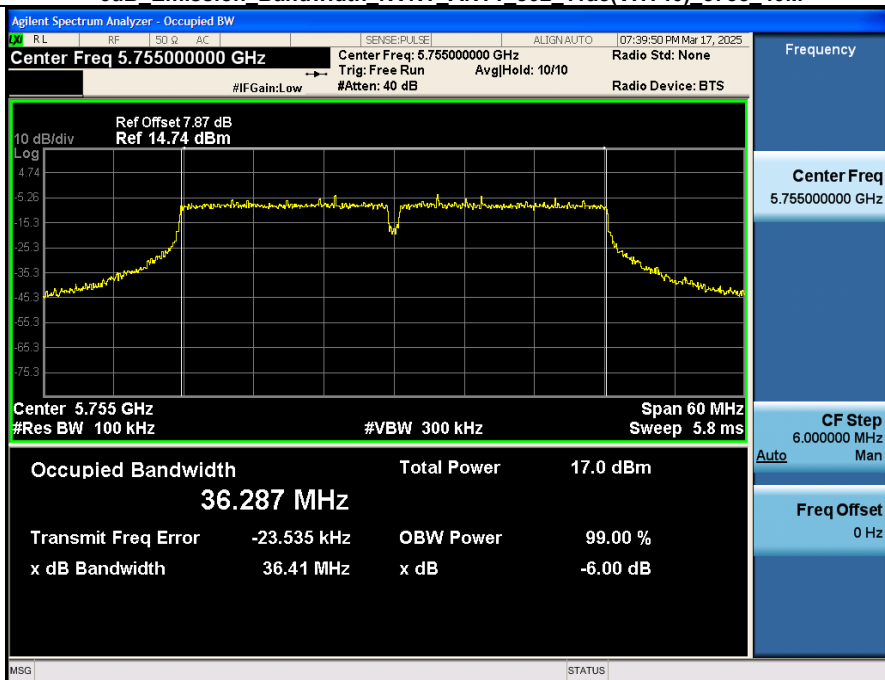
-6dB Emission Bandwidth NVNT ANT1 802_11n(HT40) 5755_40M



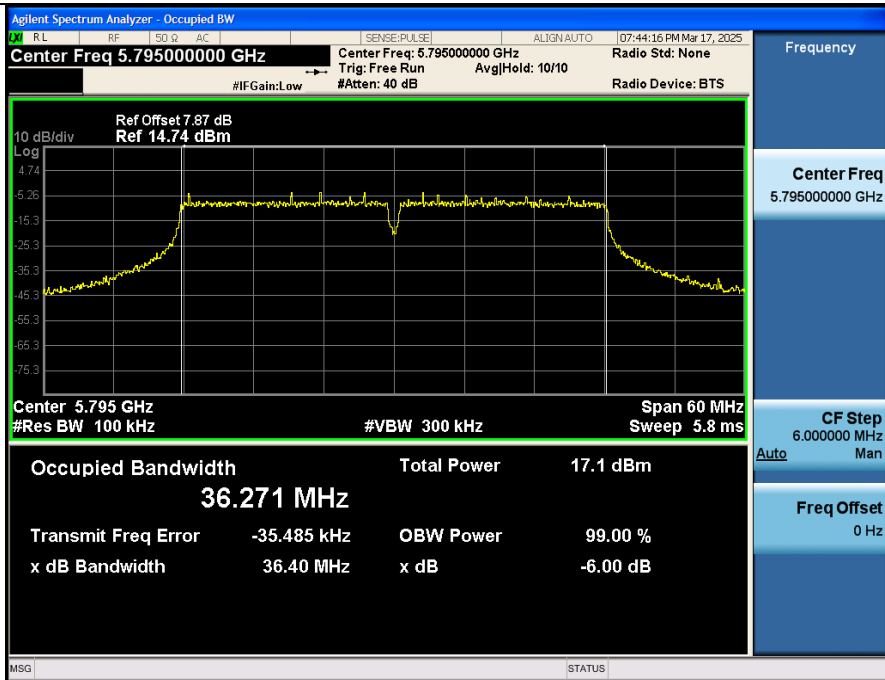
-6dB Emission Bandwidth NVNT ANT1 802_11n(HT40) 5795_40M



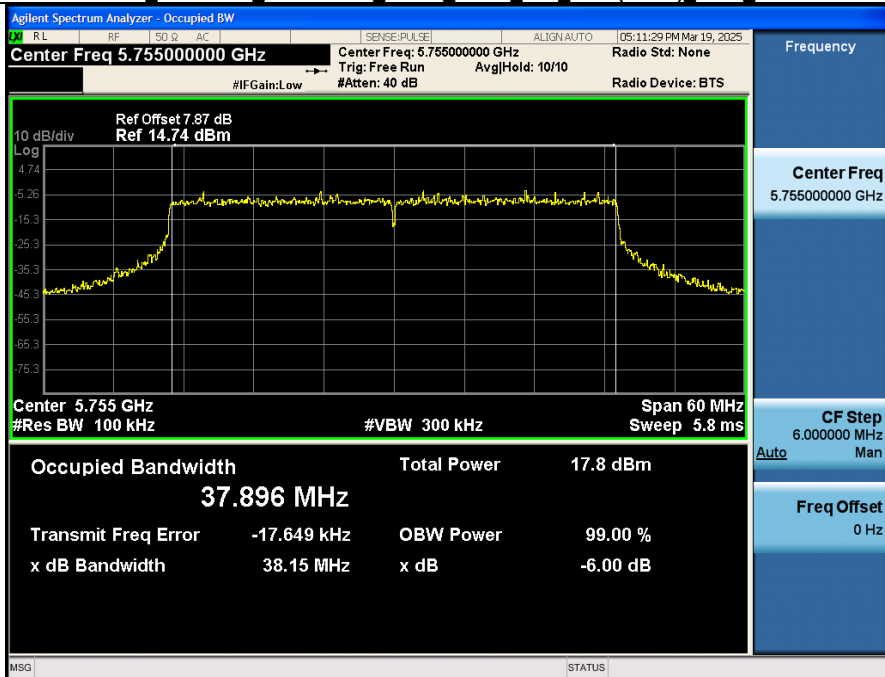
-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT40) 5755 40M



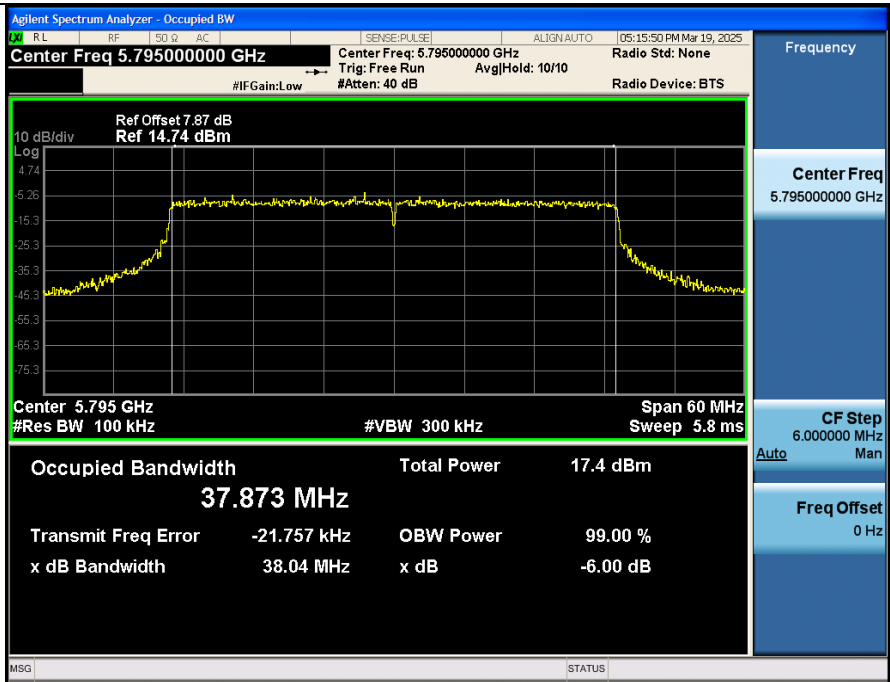
-6dB Emission Bandwidth NVNT ANT1 802 11ac(VHT40) 5795 40M



-6dB Emission Bandwidth_NVNT_ANT1_802_11ax(HE40)_5755_40M

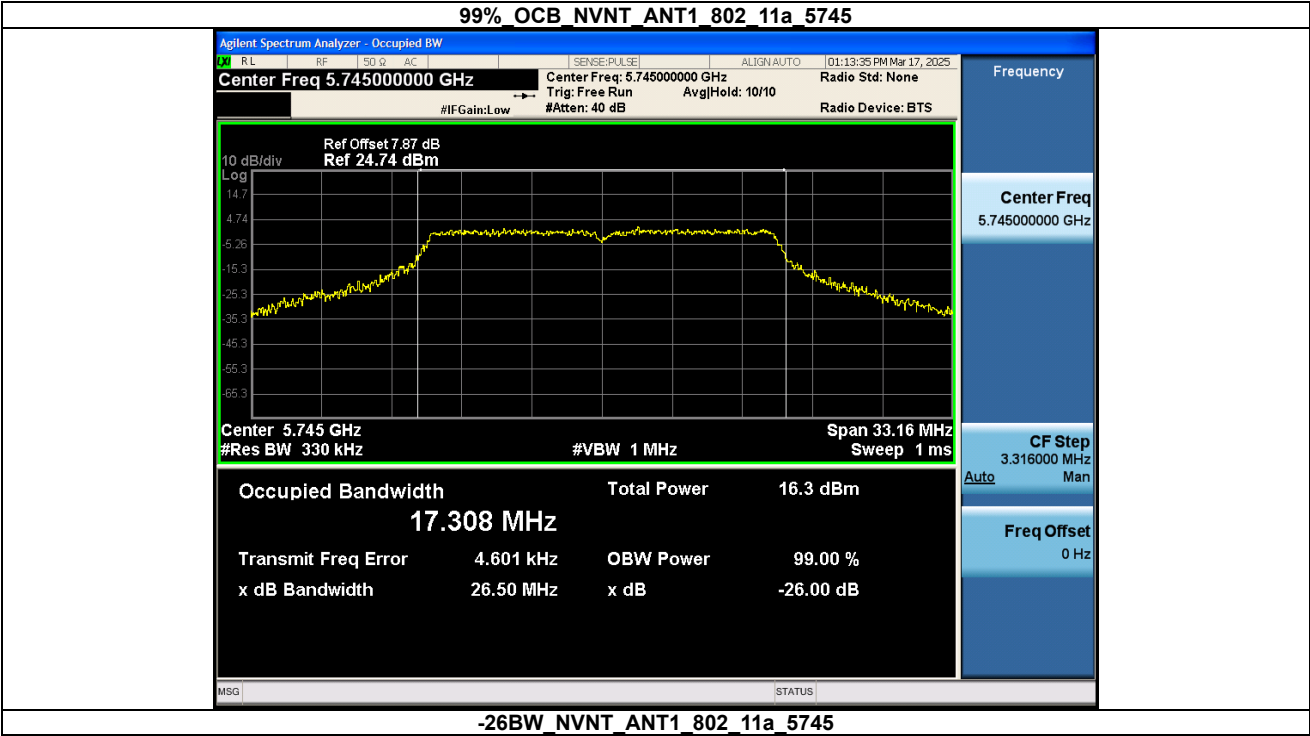


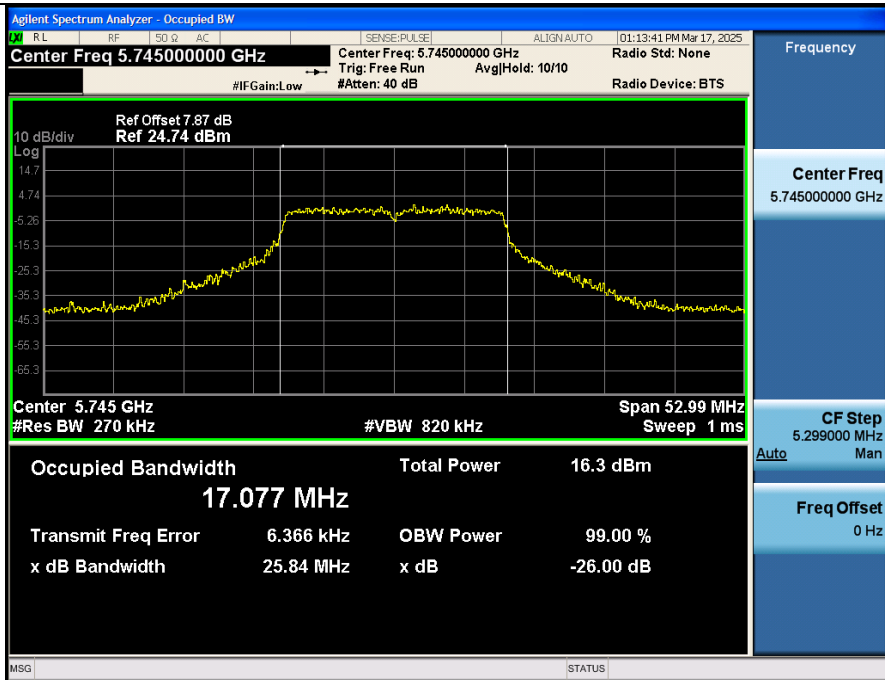
-6dB Emission Bandwidth_NVNT_ANT1_802_11ax(HE40)_5795_40M



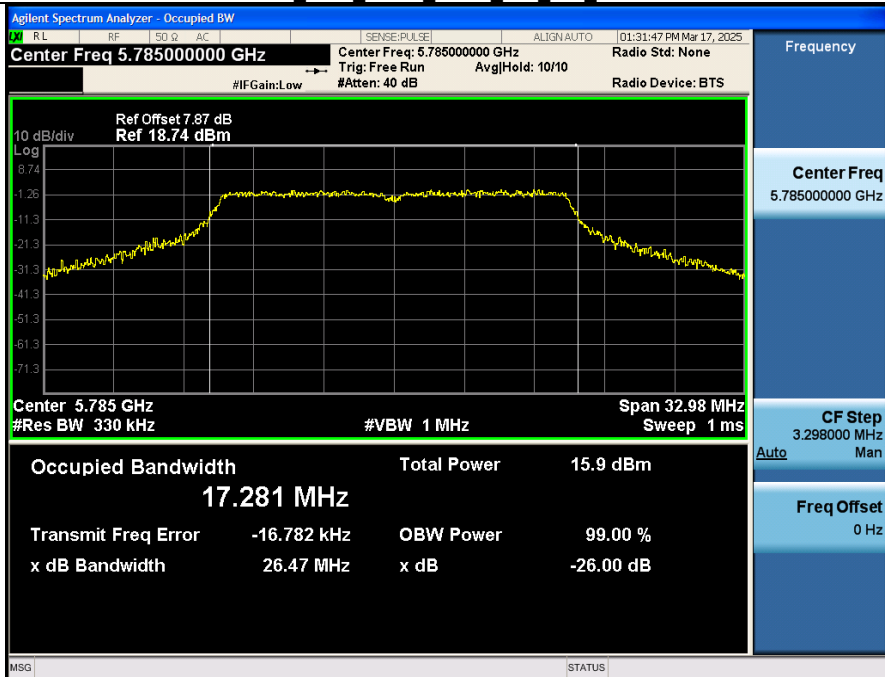
2. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	25.84	17.31
NVNT	ANT1	802.11a	5785.00	25.00	17.28
NVNT	ANT1	802.11a	5825.00	26.29	17.33
NVNT	ANT1	802.11n(HT20)	5745.00	27.34	18.60
NVNT	ANT1	802.11n(HT20)	5785.00	26.67	18.57
NVNT	ANT1	802.11n(HT20)	5825.00	25.97	18.71
NVNT	ANT1	802.11ac(VHT20)	5745.00	26.32	18.65
NVNT	ANT1	802.11ac(VHT20)	5785.00	26.95	18.67
NVNT	ANT1	802.11ac(VHT20)	5825.00	27.28	18.58
NVNT	ANT1	802.11ax(HE20)	5745.00	24.91	19.44
NVNT	ANT1	802.11ax(HE20)	5785.00	24.96	19.52
NVNT	ANT1	802.11ax(HE20)	5825.00	25.23	19.51
NVNT	ANT1	802.11n(HT40)	5755.00	45.57	37.28
NVNT	ANT1	802.11n(HT40)	5795.00	46.98	37.22
NVNT	ANT1	802.11ac(VHT40)	5755.00	46.37	37.11
NVNT	ANT1	802.11ac(VHT40)	5795.00	47.58	37.22
NVNT	ANT1	802.11ax(HE40)	5755.00	45.67	38.27
NVNT	ANT1	802.11ax(HE40)	5795.00	45.96	38.37

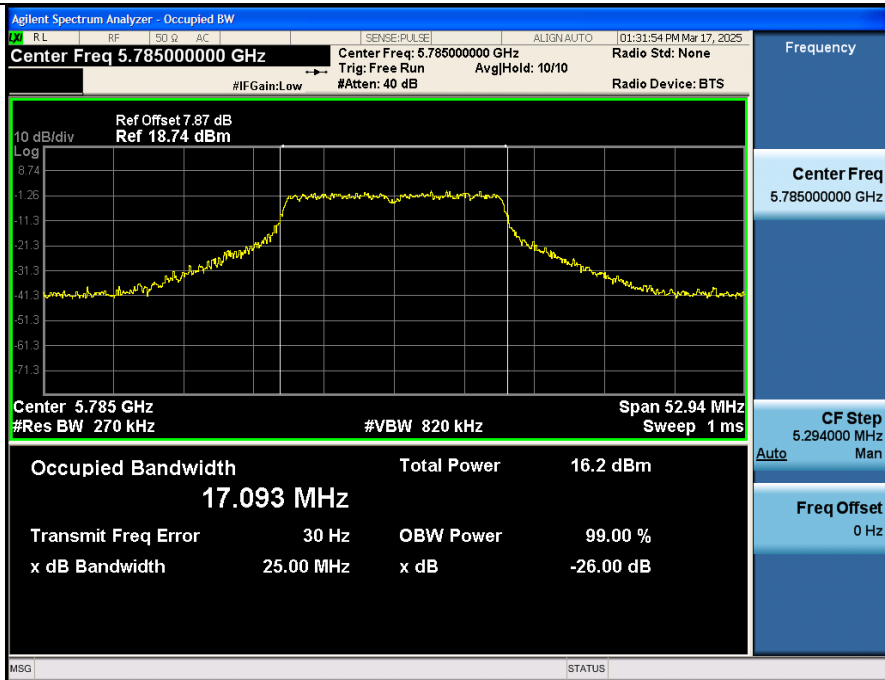




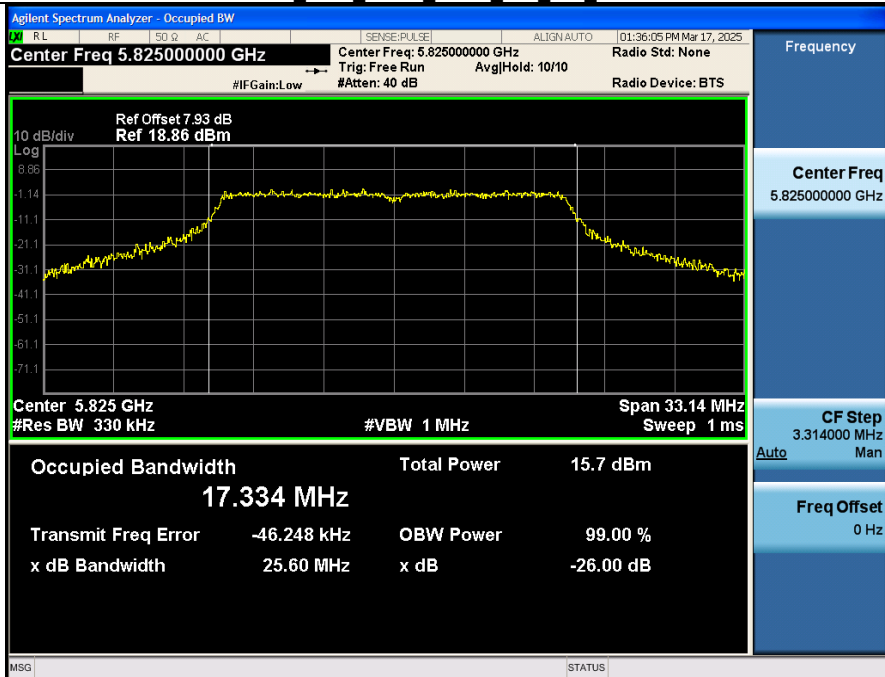
99% OCB NVNT ANT1 802 11a 5785



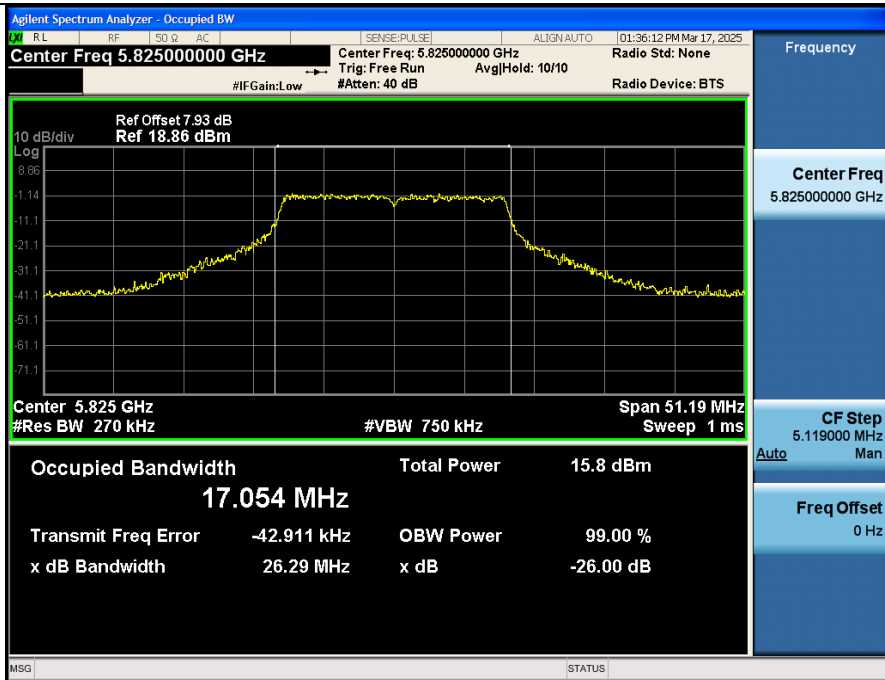
-26BW NVNT ANT1 802 11a 5785



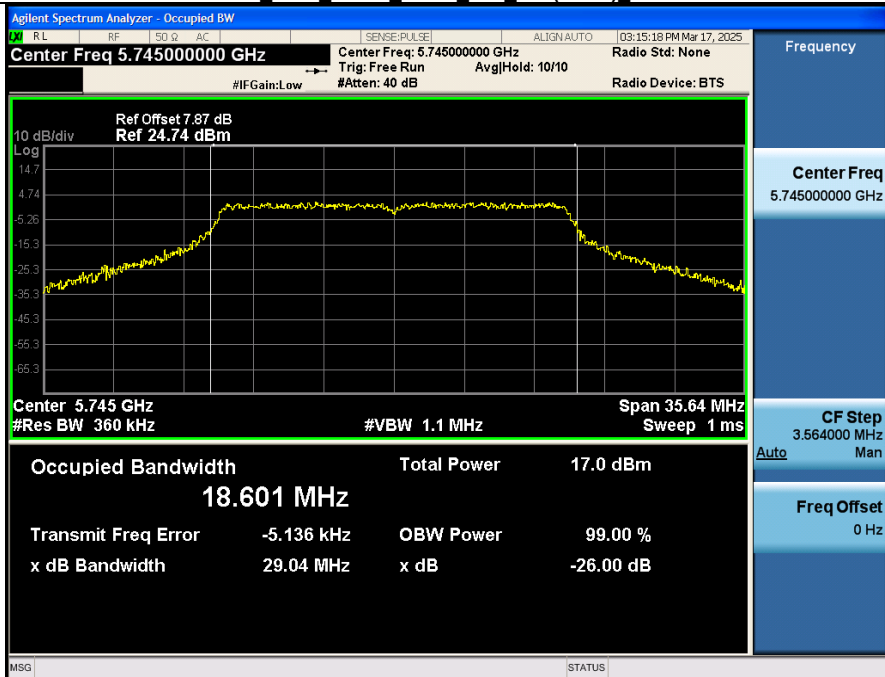
99% OCB NVNT ANT1 802 11a 5825



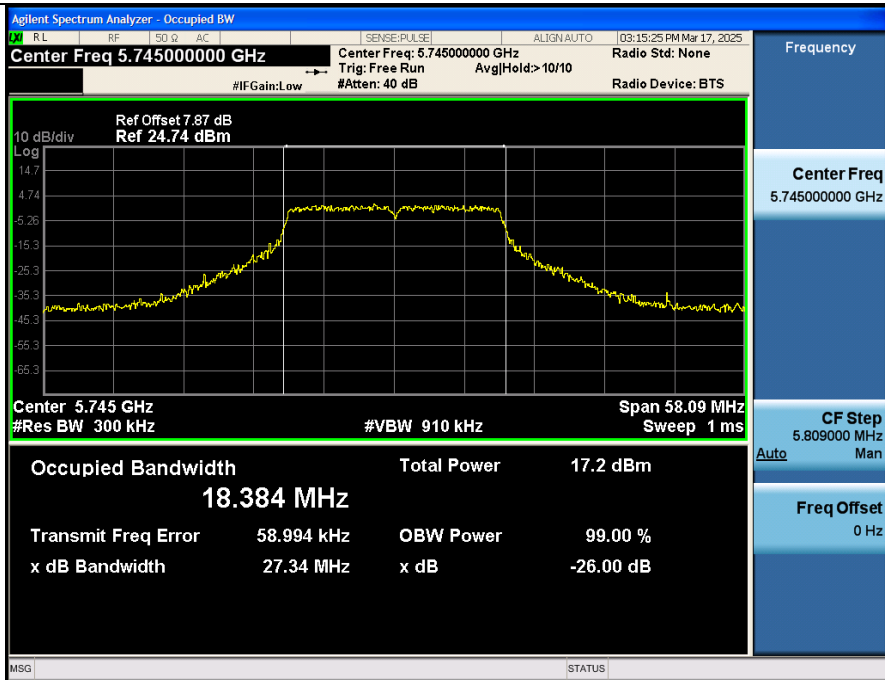
-26BW NVNT ANT1 802 11a 5825



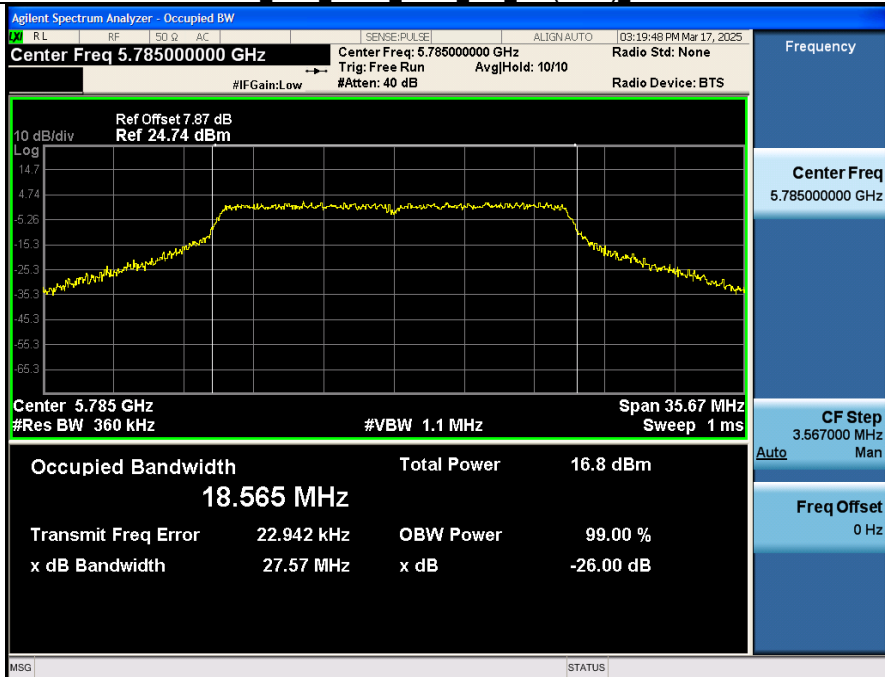
99% OCB NVNT ANT1_802_11n(HT20)_5745



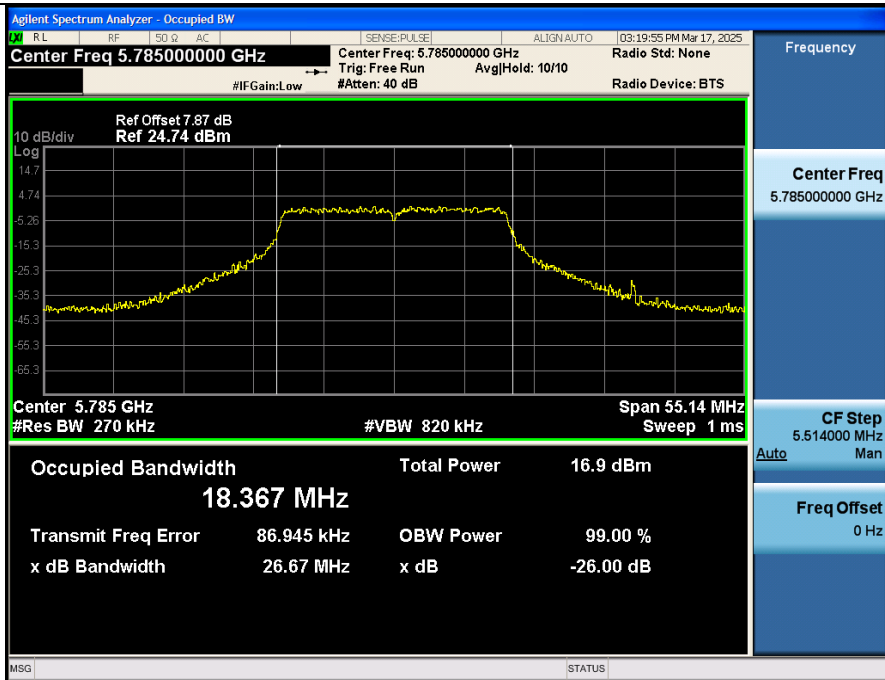
-26BW_NVNT_ANT1_802_11n(HT20)_5745



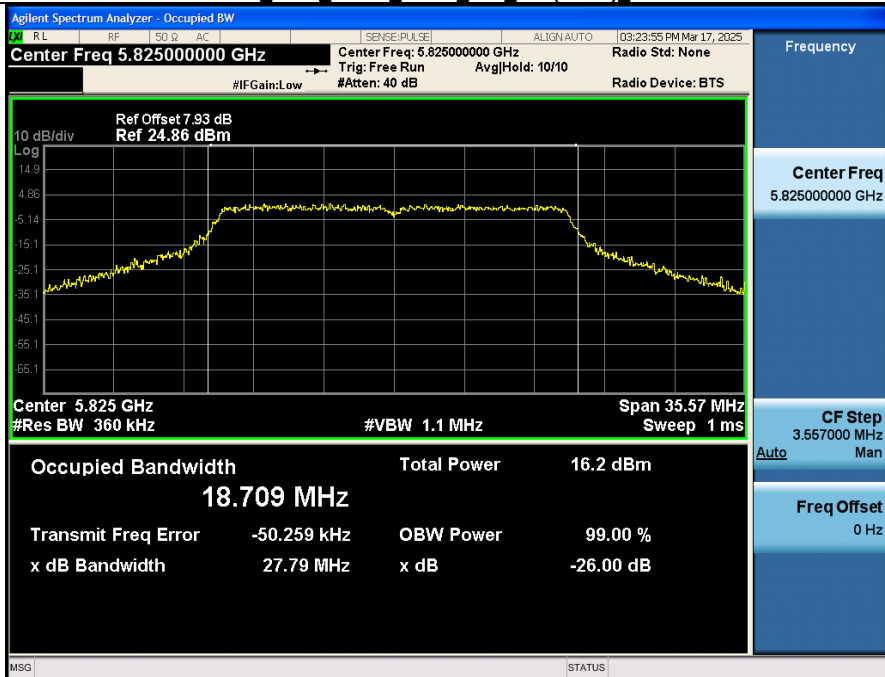
99% OCB NVNT ANT1_802_11n(HT20)_5785



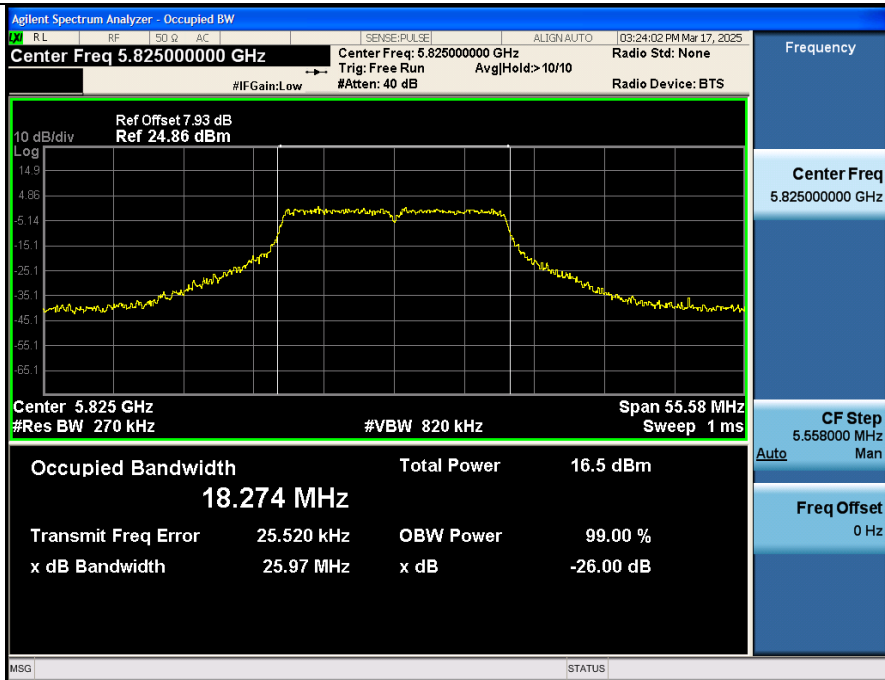
-26BW_NVNT_ANT1_802_11n(HT20)_5785



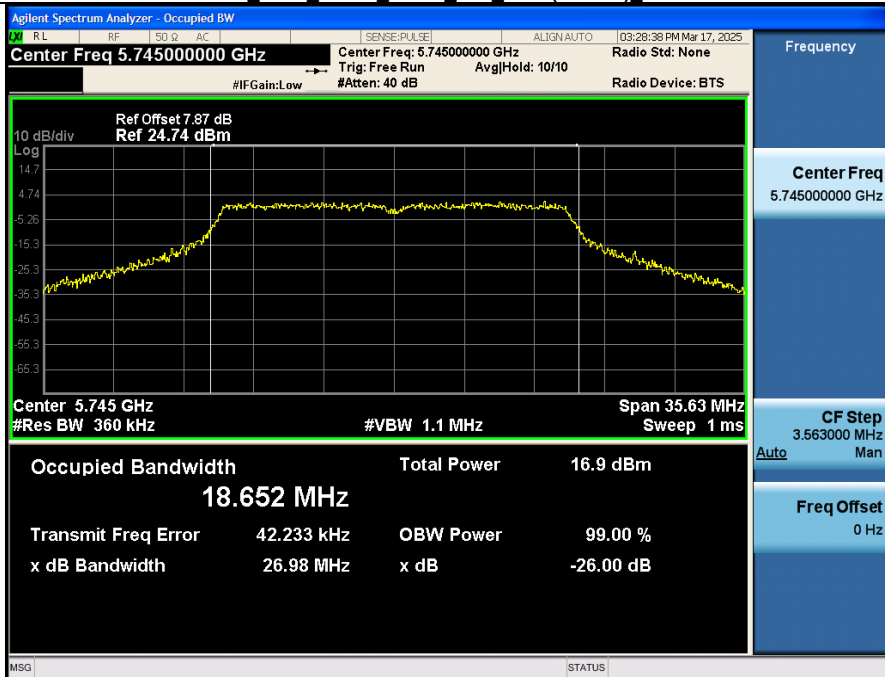
99% OCB NVNT ANT1_802_11n(HT20)_5825



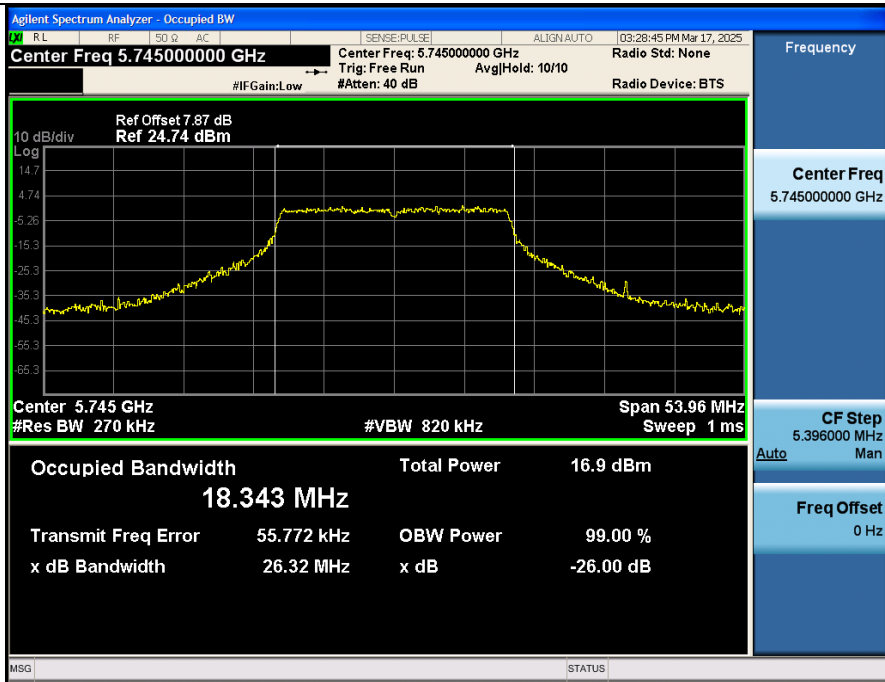
-26BW_NVNT_ANT1_802_11n(HT20)_5825



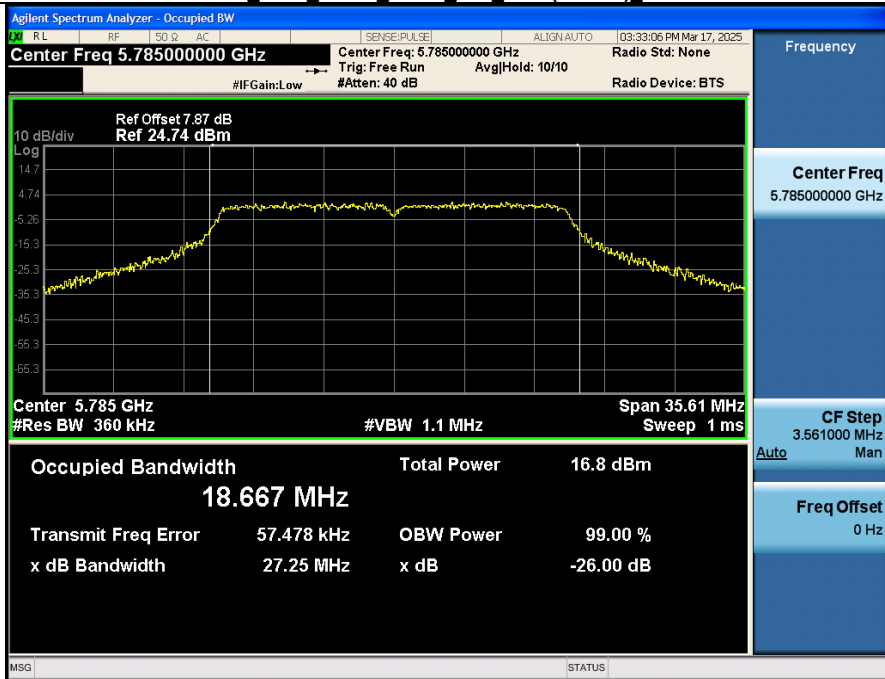
99% OCB NVNT ANT1 802 11ac(VHT20) 5745



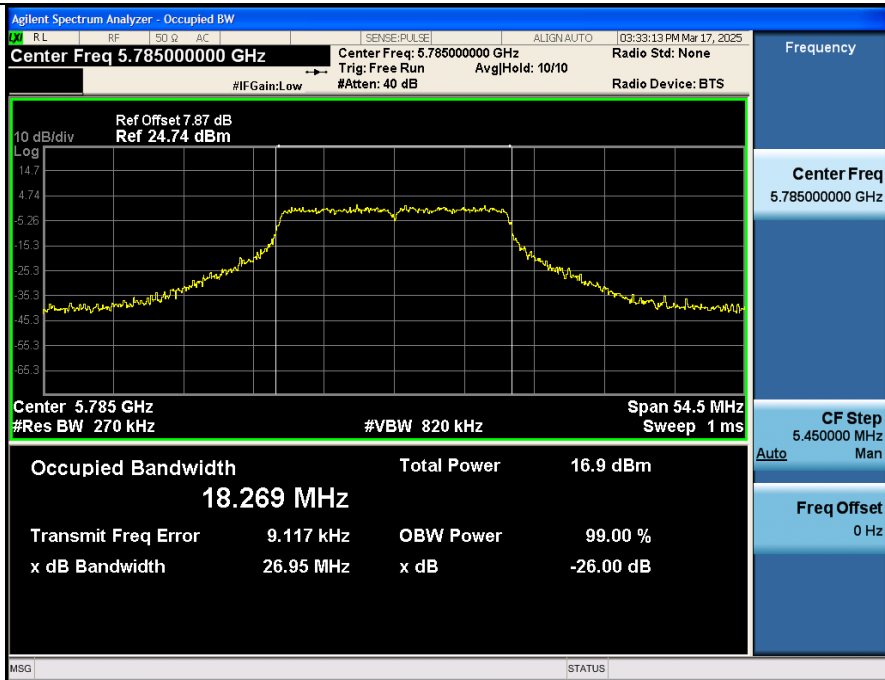
-26BW_NVNT_ANT1_802_11ac(VHT20)_5745



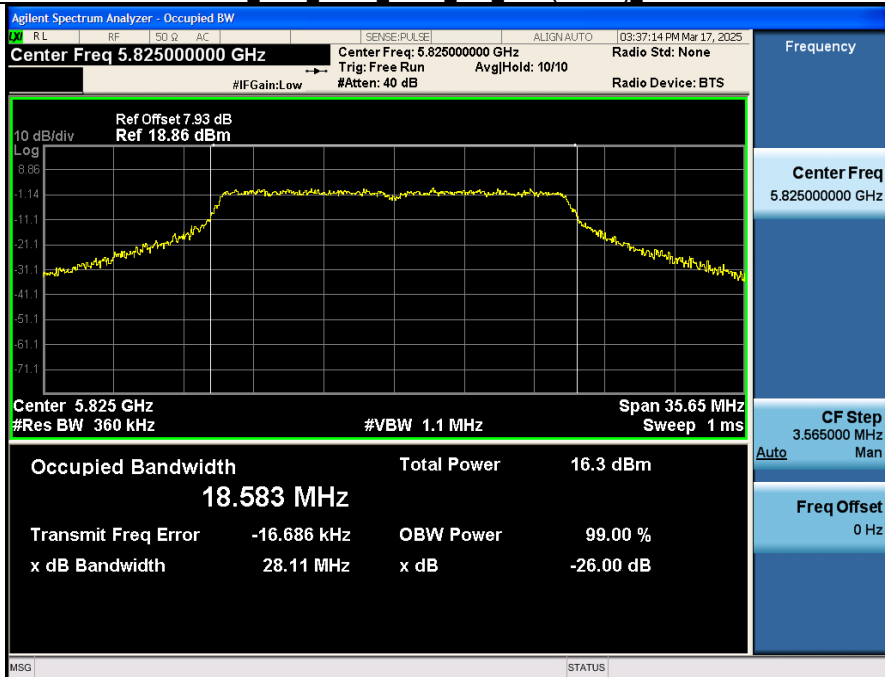
99% OCB NVNT ANT1 802 11ac(VHT20) 5785



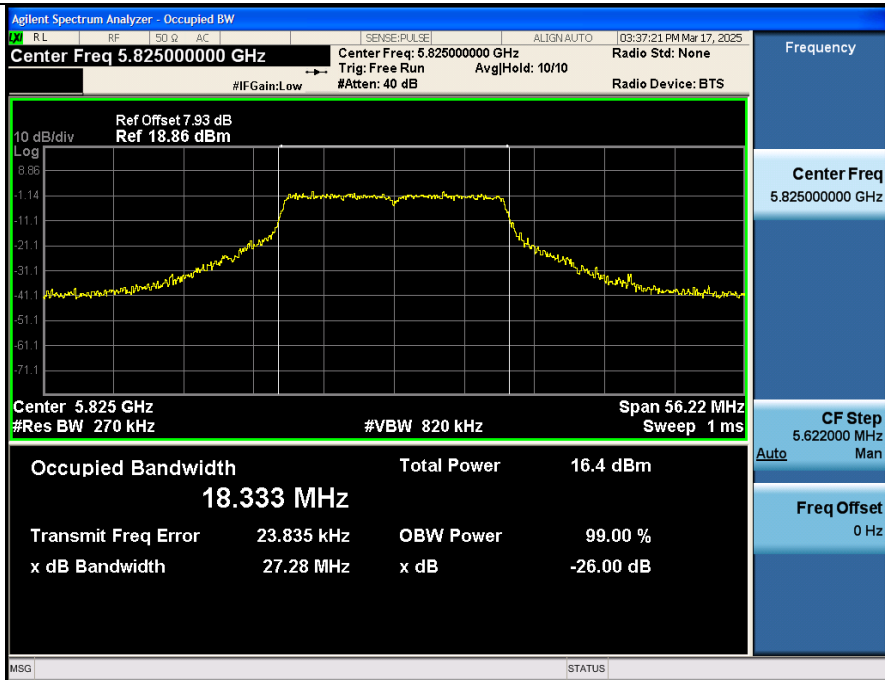
-26BW_NVNT_ANT1_802_11ac(VHT20)_5785



99% OCB NVNT ANT1 802 11ac(VHT20) 5825



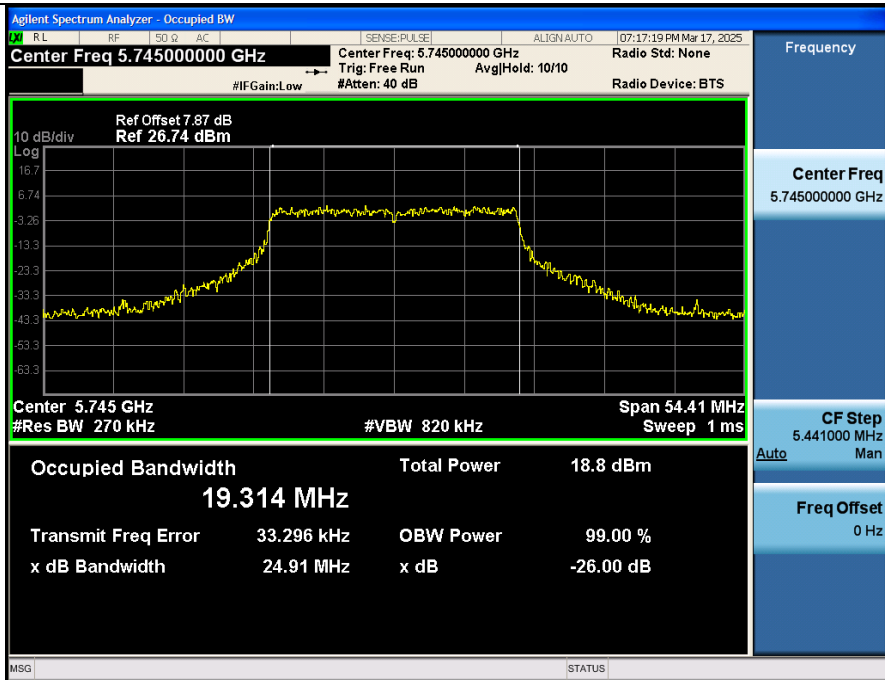
-26BW_NVNT_ANT1_802_11ac(VHT20)_5825



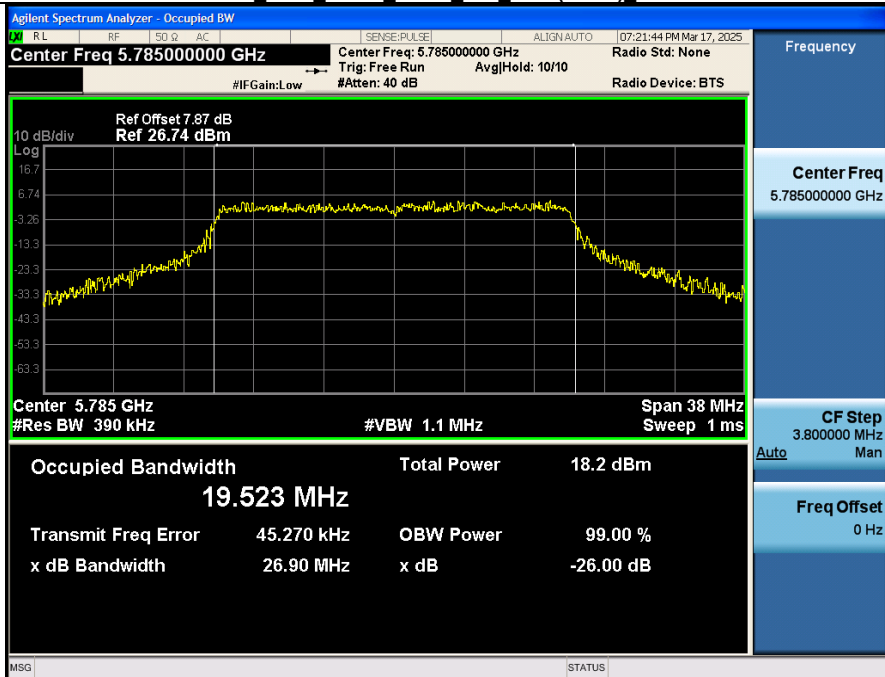
99% OCB NVNT ANT1 802_11ax(HE20) 5745



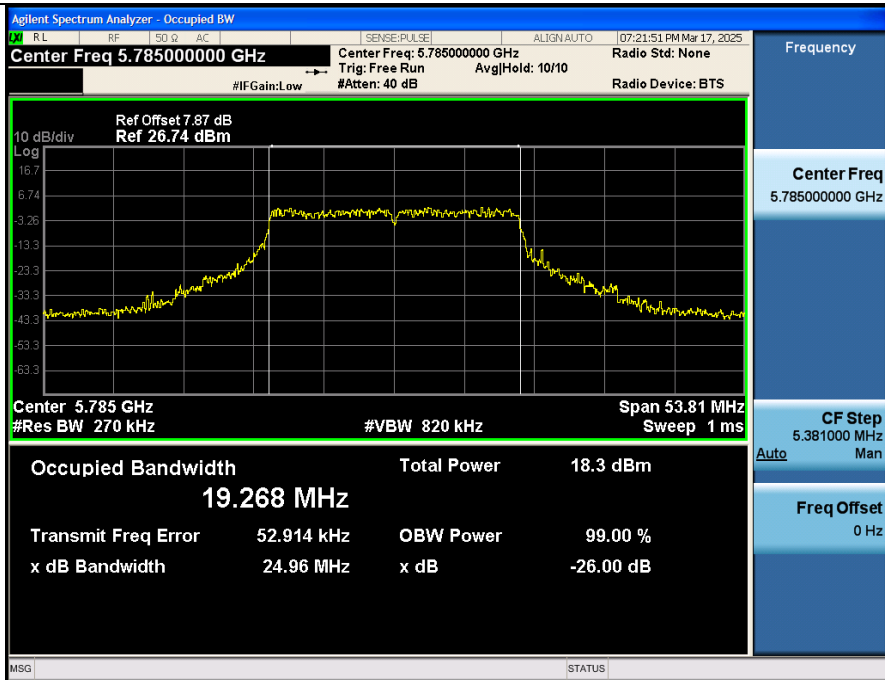
-26BW_NVNT_ANT1_802_11ax(HE20)_5745



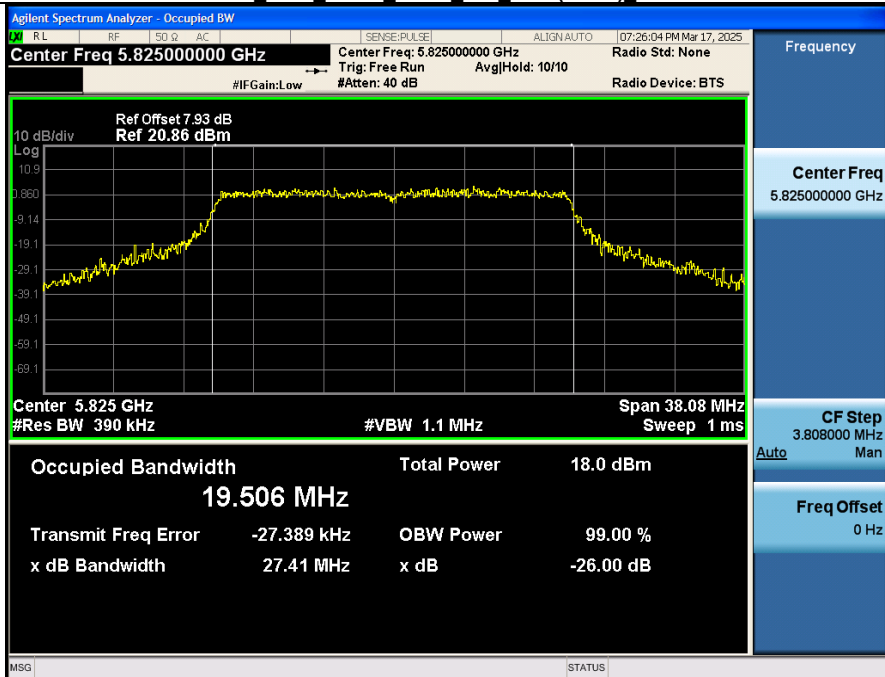
99% OCB NVNT ANT1 802_11ax(HE20) 5785



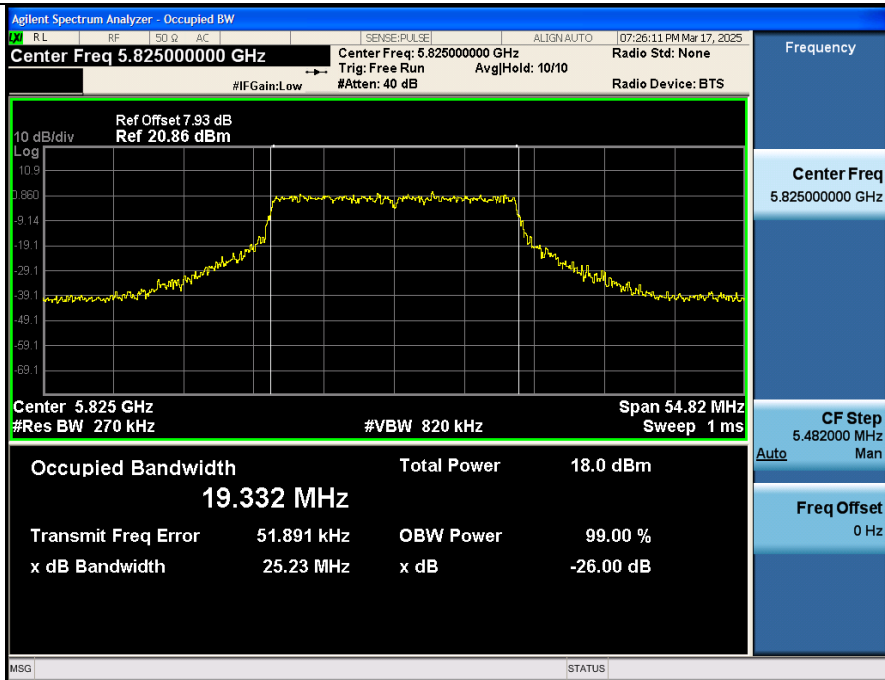
-26BW NVNT ANT1 802_11ax(HE20) 5785



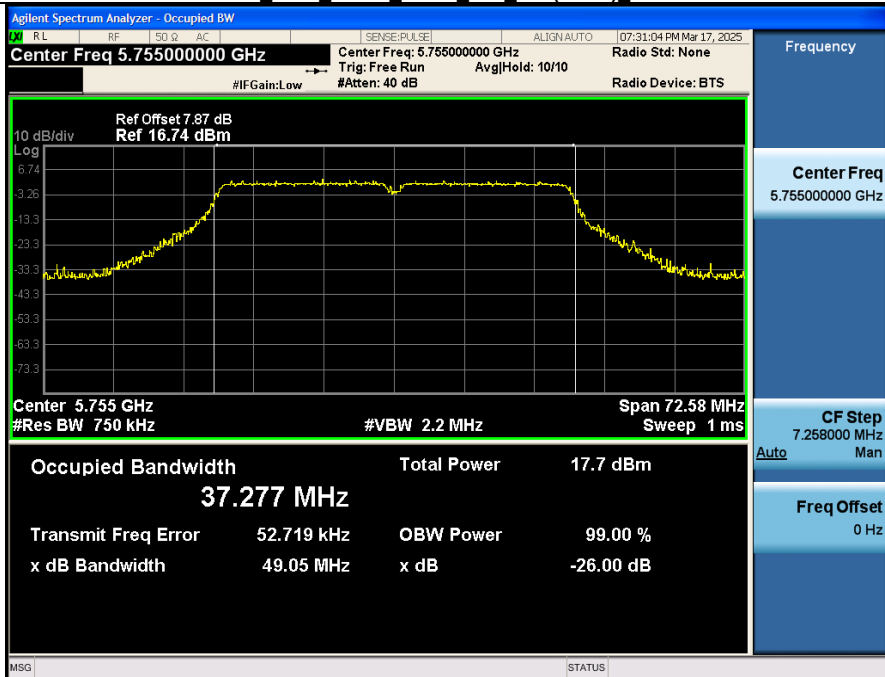
99% OCB NVNT ANT1_802_11ax(HE20)_5825



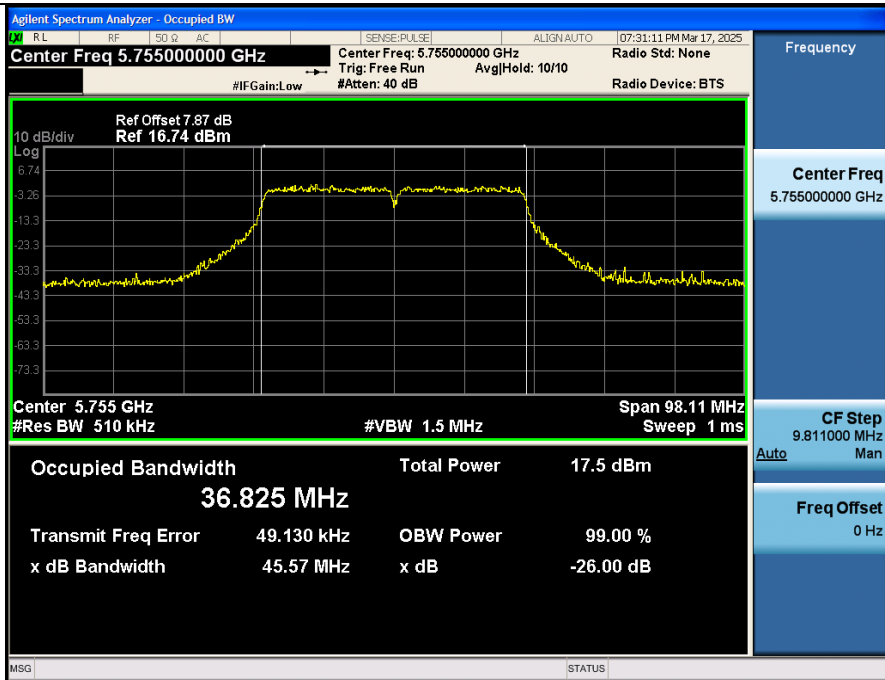
-26BW_NVNT_ANT1_802_11ax(HE20)_5825



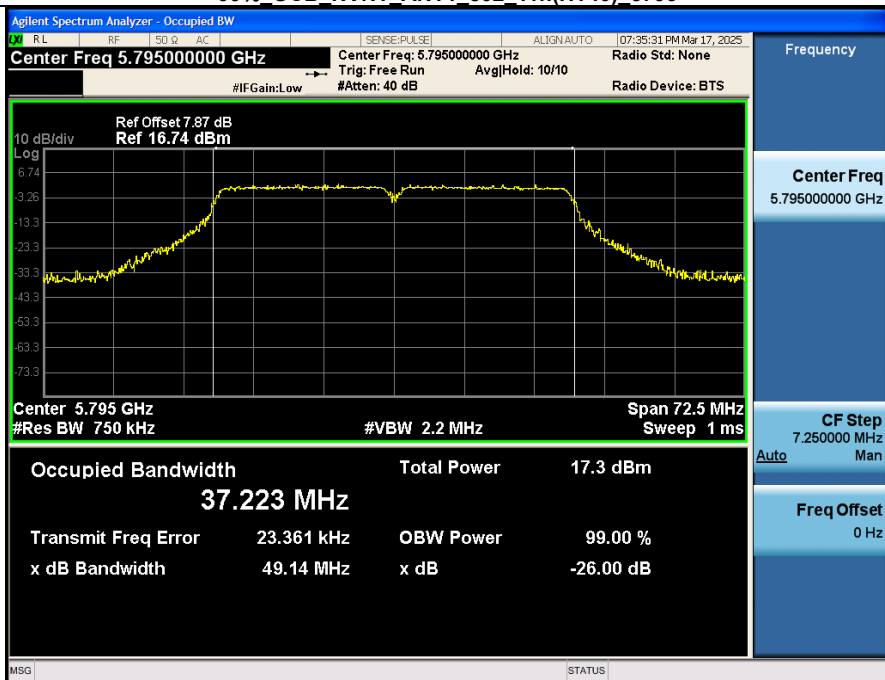
99% OCB NVNT ANT1_802_11n(HT40)_5755



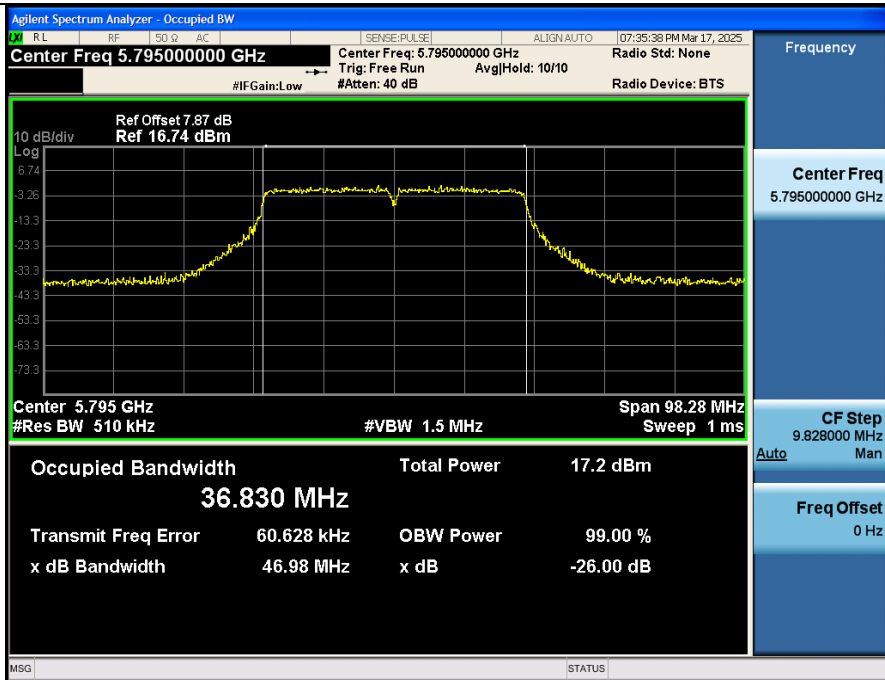
-26BW_NVNT_ANT1_802_11n(HT40)_5755



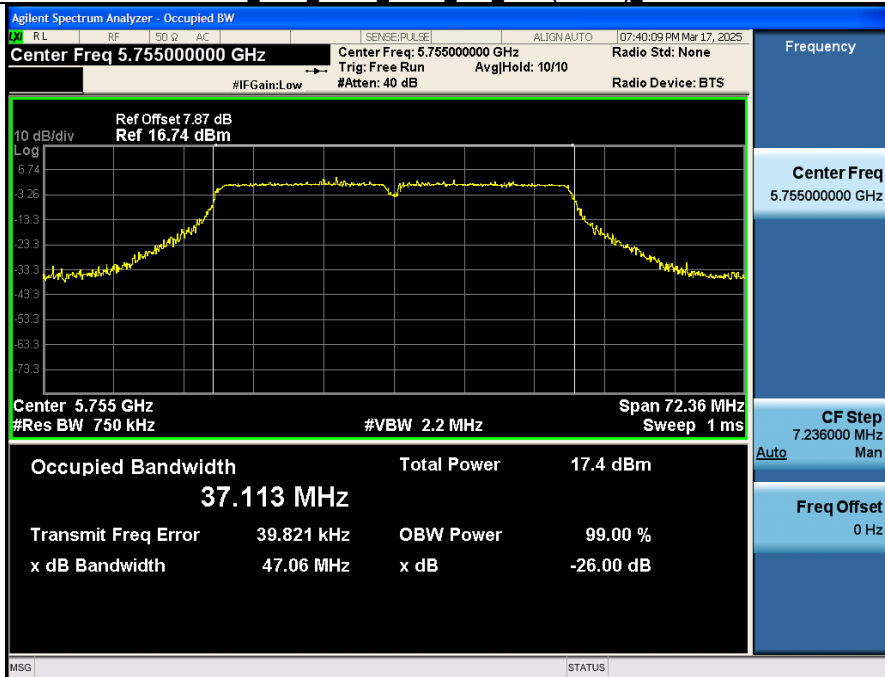
99% OCB NVNT ANT1_802_11n(HT40)_5795



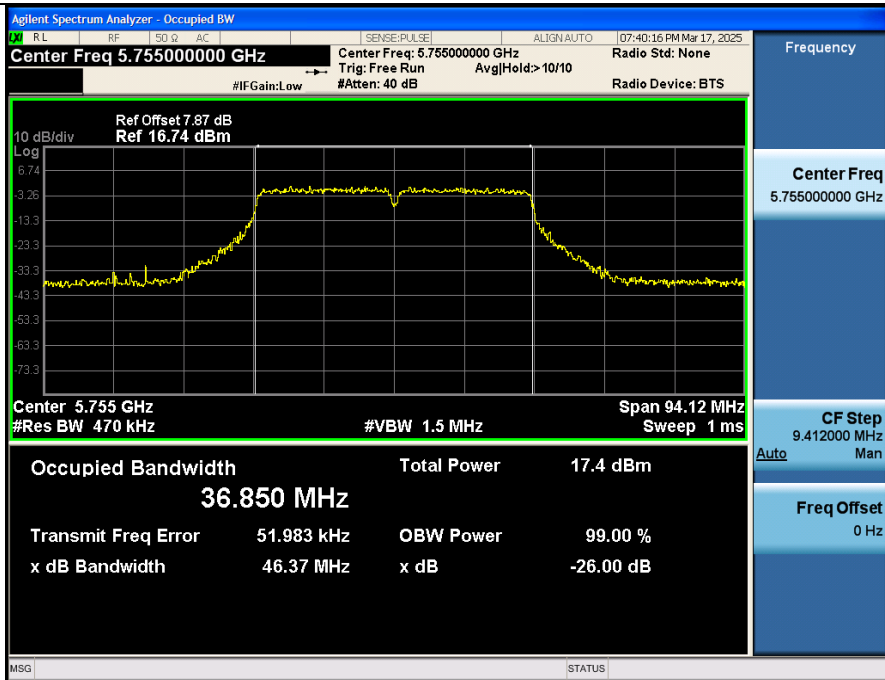
-26BW_NVNT_ANT1_802_11n(HT40)_5795



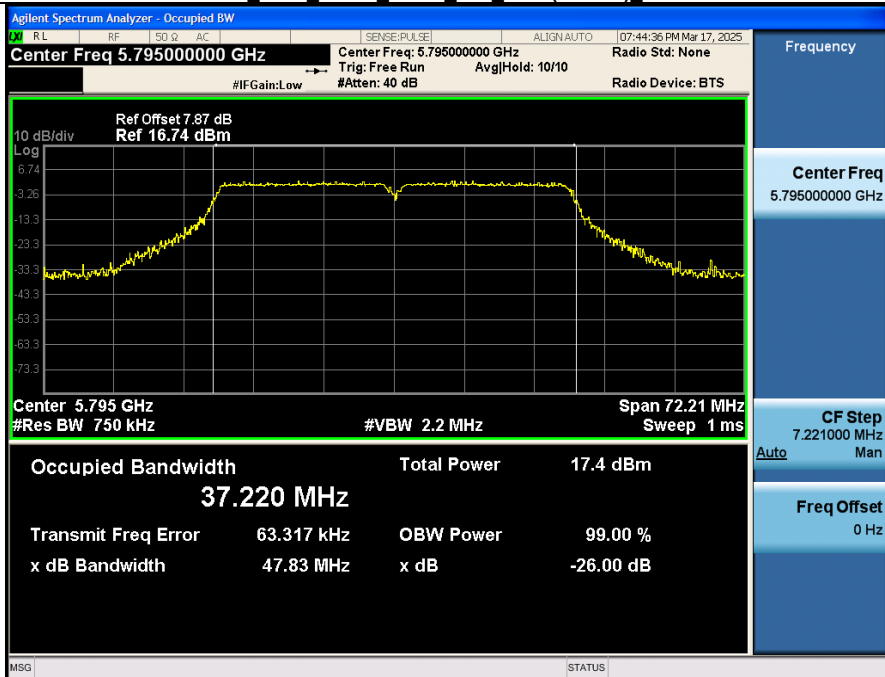
99% OCB NVNT ANT1 802 11ac(VHT40) 5755



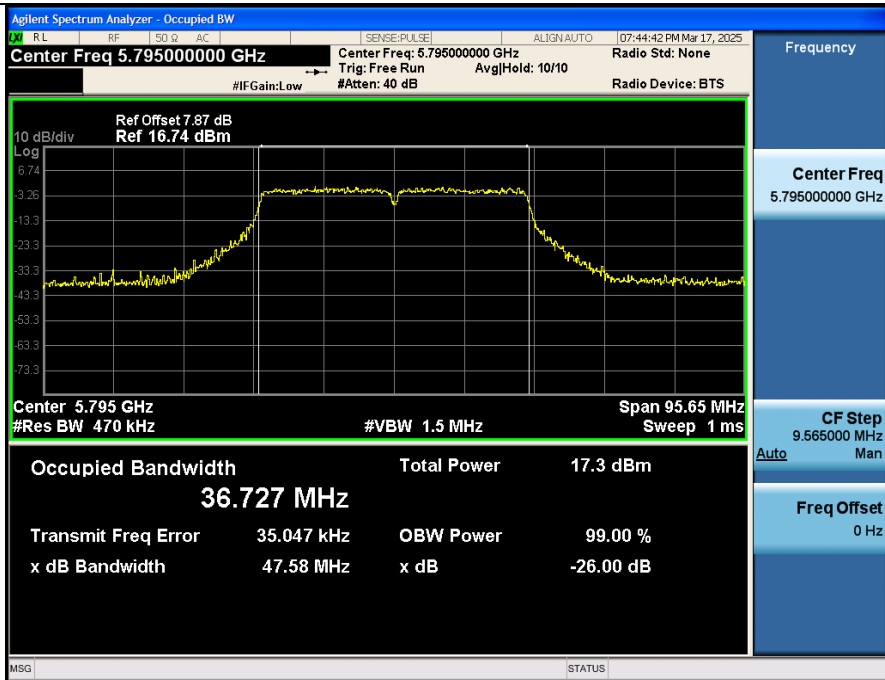
-26BW NVNT ANT1 802 11ac(VHT40) 5755



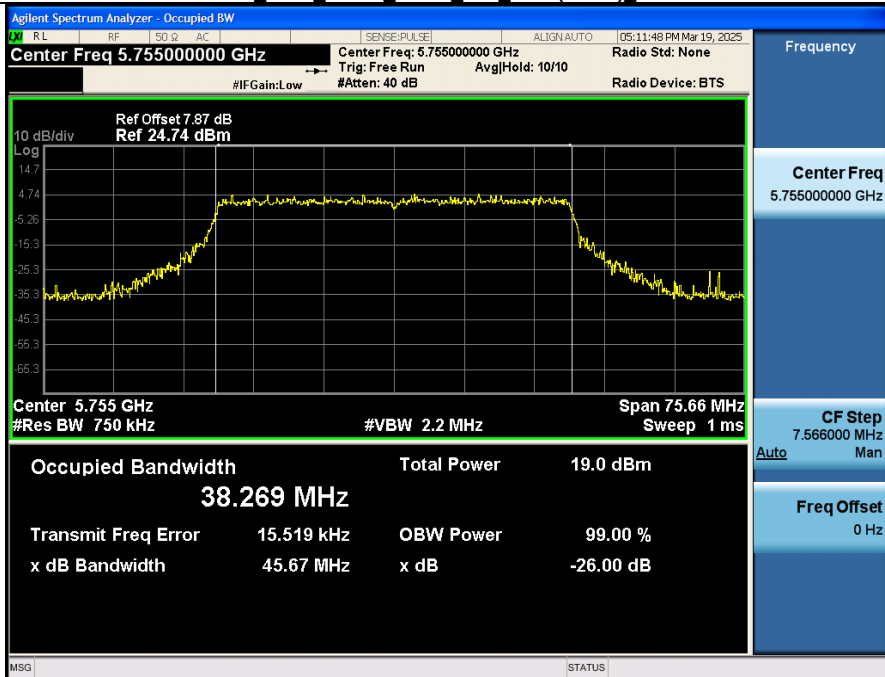
99% OCB NVNT ANT1 802 11ac(VHT40) 5795



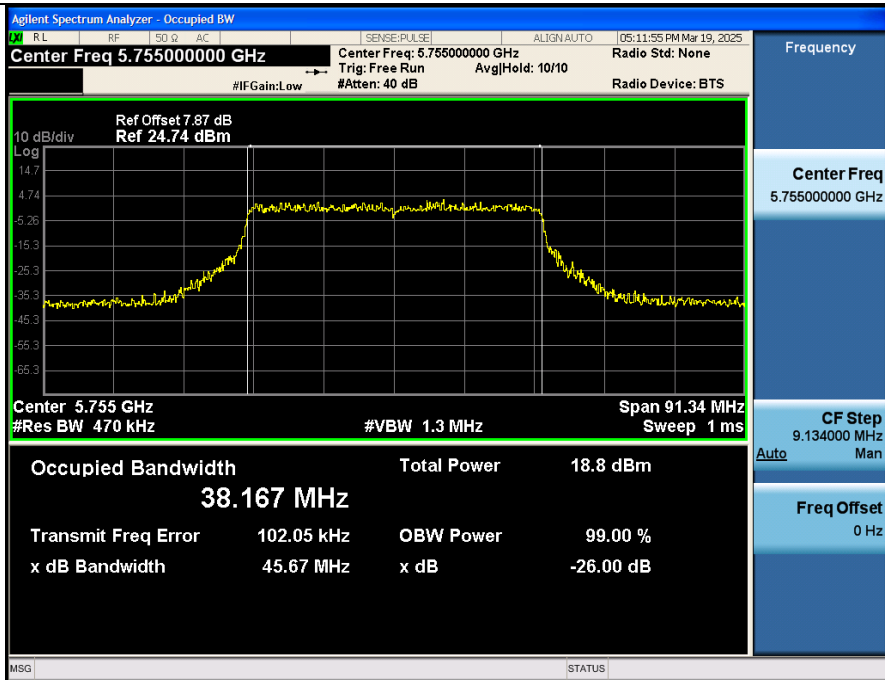
-26BW NVNT ANT1 802 11ac(VHT40) 5795



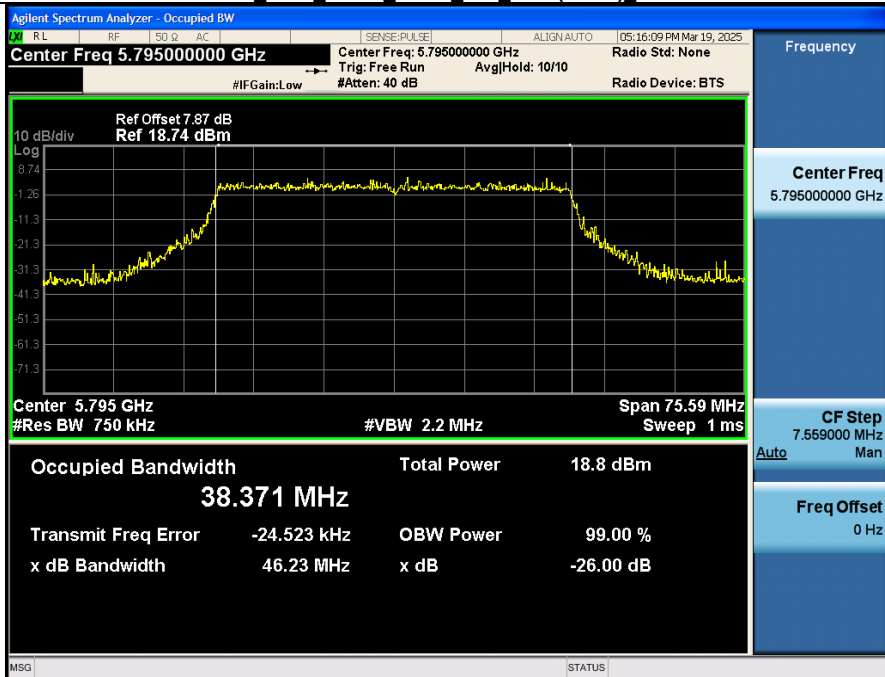
99% OCB NVNT ANT1 802_11ax(HE40) 5755



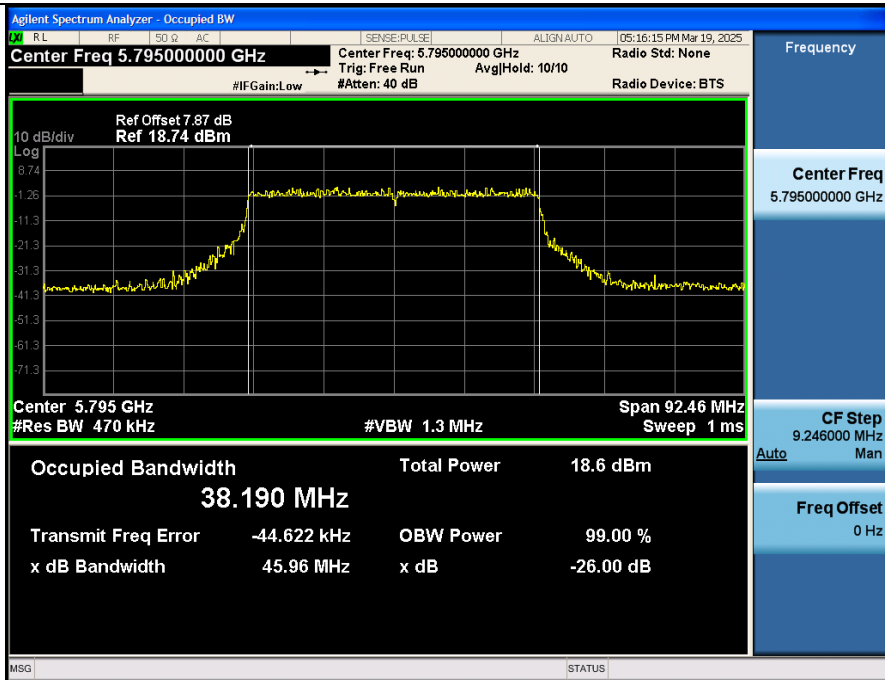
-26BW_NVNT_ANT1_802_11ax(HE40)_5755



99% OCB NVNT ANT1 802_11ax(HE40) 5795

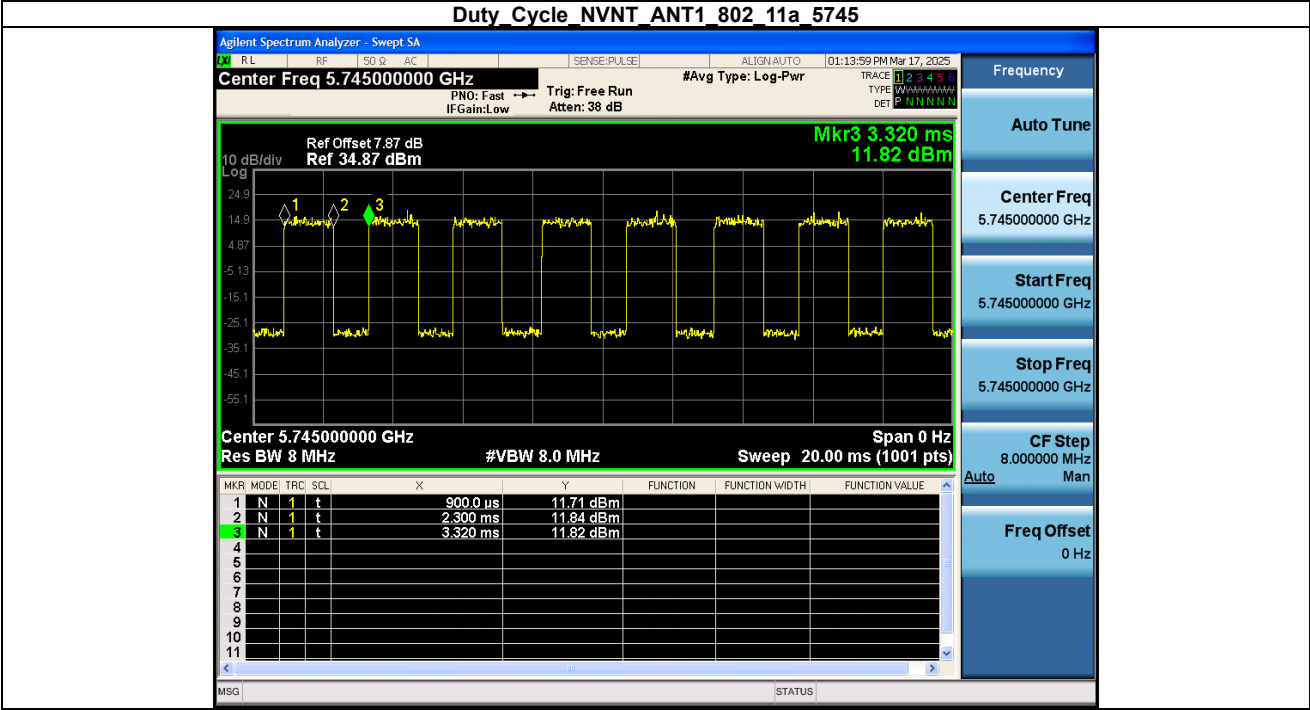


-26BW_NVNT_ANT1_802_11ax(HE40)_5795

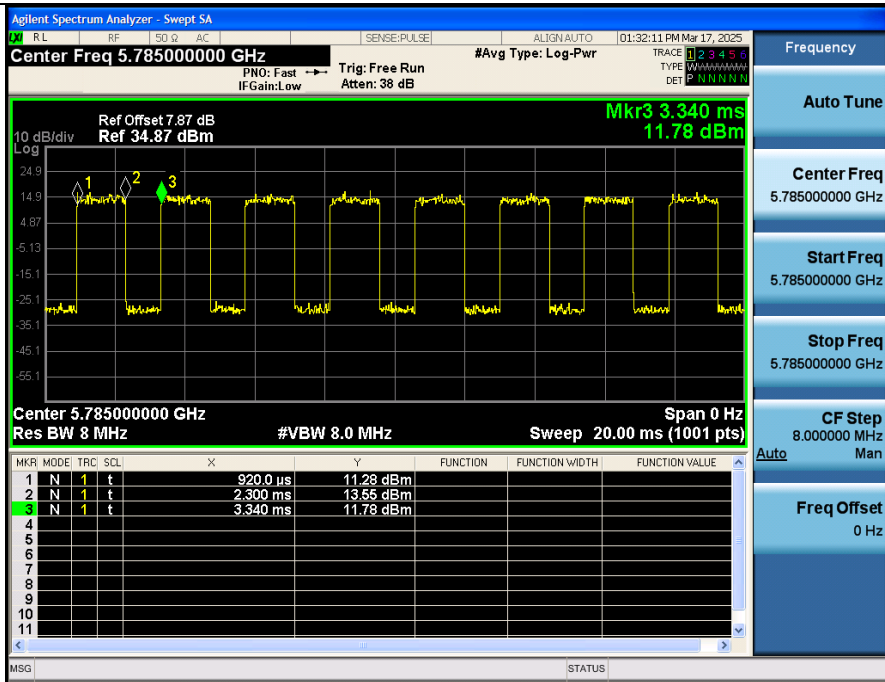


3. Duty Cycle

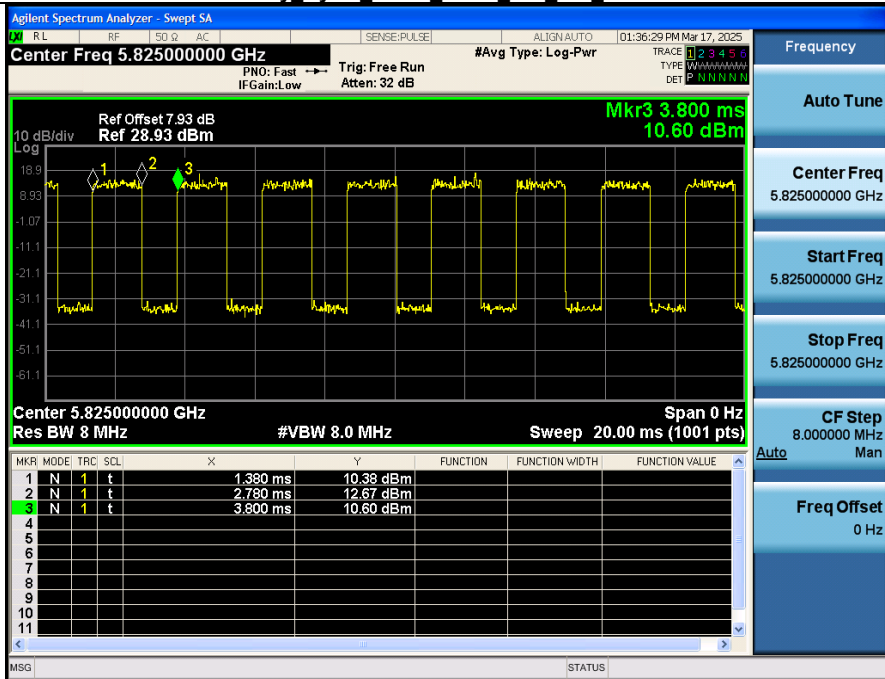
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	57.85	2.38
NVNT	ANT1	802.11a	5785.00	57.02	2.44
NVNT	ANT1	802.11a	5825.00	57.85	2.38
NVNT	ANT1	802.11n(HT20)	5745.00	83.33	0.79
NVNT	ANT1	802.11n(HT20)	5785.00	83.33	0.79
NVNT	ANT1	802.11n(HT20)	5825.00	83.28	0.79
NVNT	ANT1	802.11ac(VHT20)	5745.00	83.33	0.79
NVNT	ANT1	802.11ac(VHT20)	5785.00	83.33	0.79
NVNT	ANT1	802.11ac(VHT20)	5825.00	83.28	0.79
NVNT	ANT1	802.11ax(HE20)	5745.00	79.18	1.01
NVNT	ANT1	802.11ax(HE20)	5785.00	79.18	1.01
NVNT	ANT1	802.11ax(HE20)	5825.00	79.18	1.01
NVNT	ANT1	802.11n(HT40)	5755.00	82.71	0.82
NVNT	ANT1	802.11n(HT40)	5795.00	82.77	0.82
NVNT	ANT1	802.11ac(VHT40)	5755.00	82.77	0.82
NVNT	ANT1	802.11ac(VHT40)	5795.00	82.77	0.82
NVNT	ANT1	802.11ax(HE40)	5755.00	79.10	1.02
NVNT	ANT1	802.11ax(HE40)	5795.00	79.51	1.00



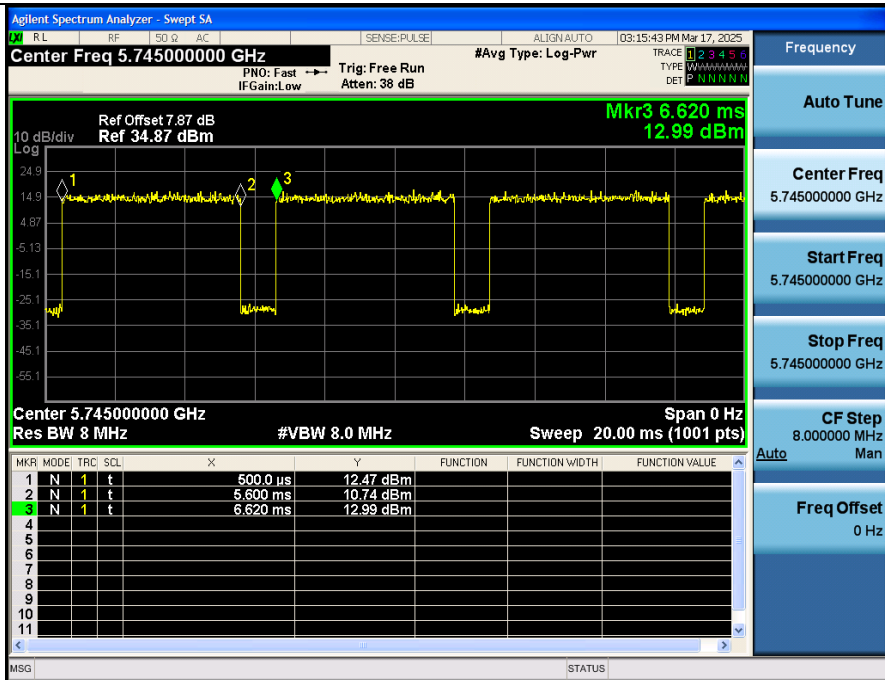
Duty Cycle NVNT ANT1 802 11a 5785



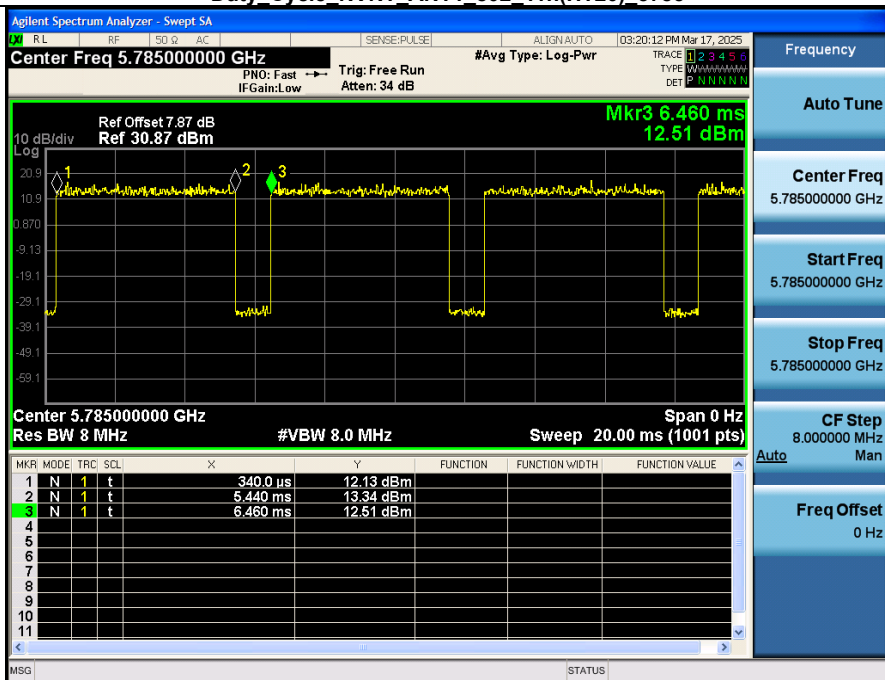
Duty Cycle NVNT ANT1 802_11a 5825



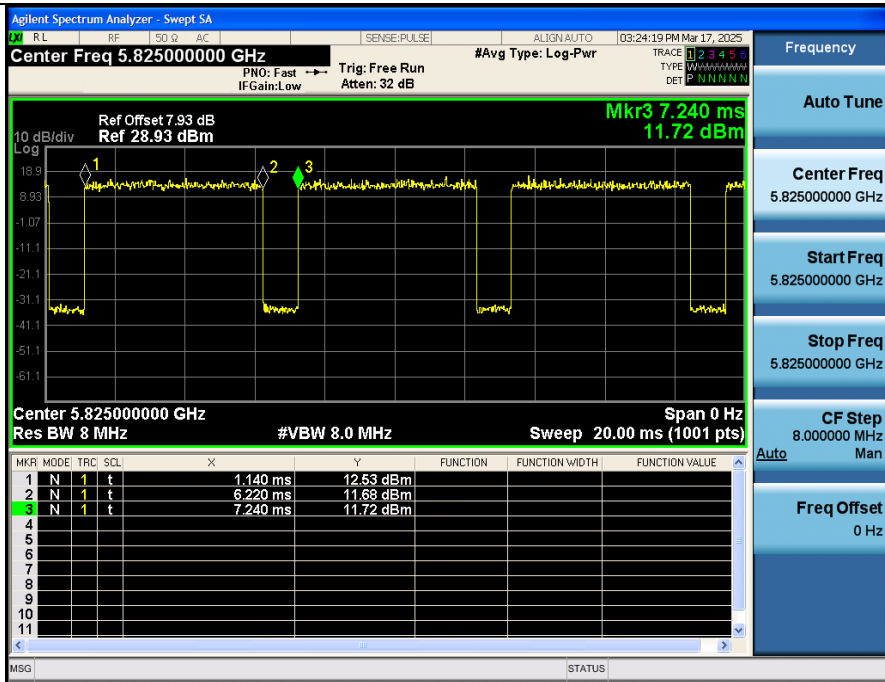
Duty Cycle NVNT ANT1 802_11n(HT20)_5745



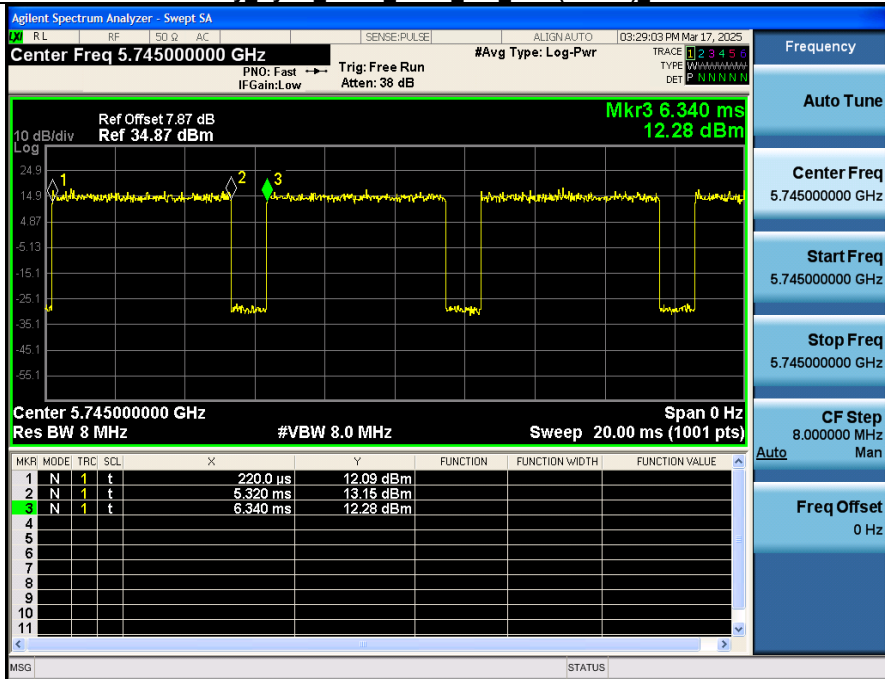
Duty Cycle NVNT ANT1 802_11n(HT20)_5785



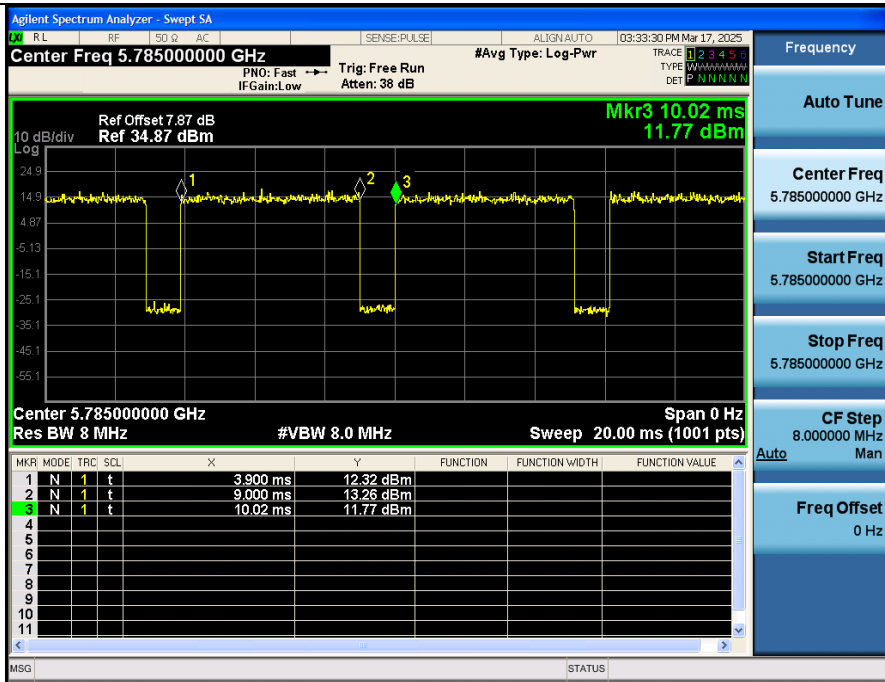
Duty Cycle NVNT ANT1 802_11n(HT20)_5825



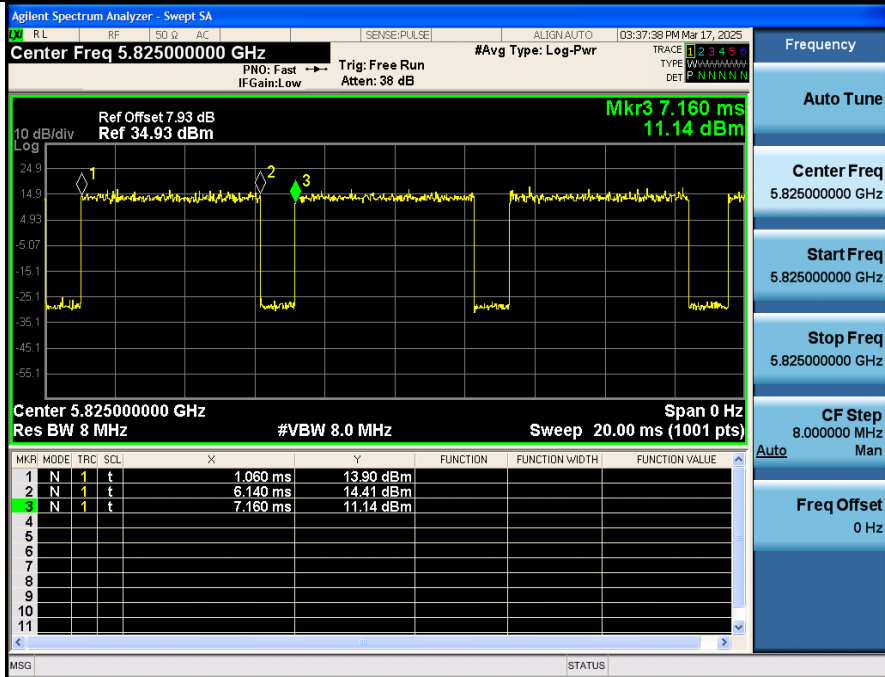
Duty Cycle NVNT ANT1_802_11ac(VHT20)_5745



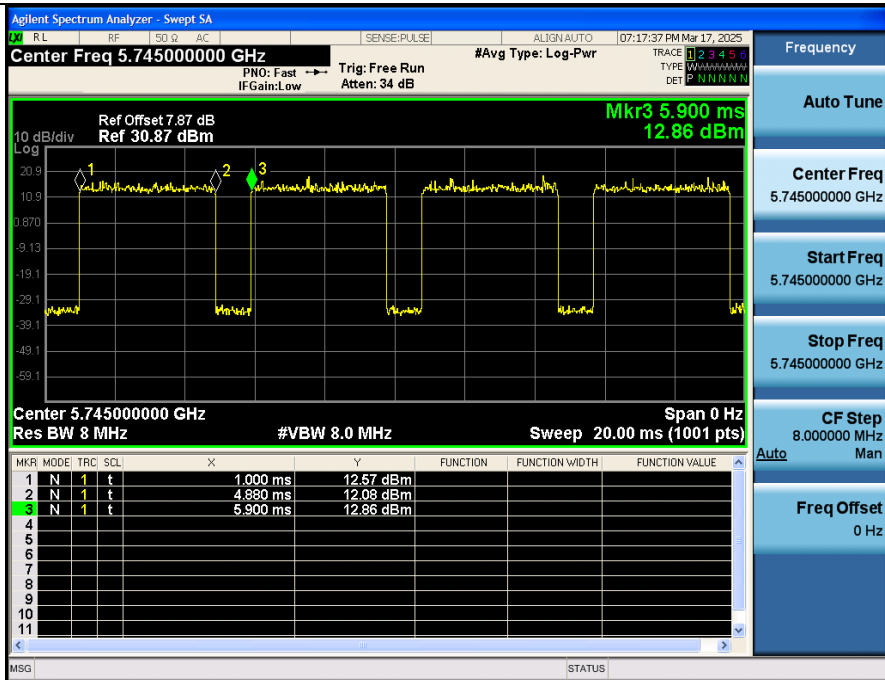
Duty Cycle NVNT ANT1_802_11ac(VHT20)_5785



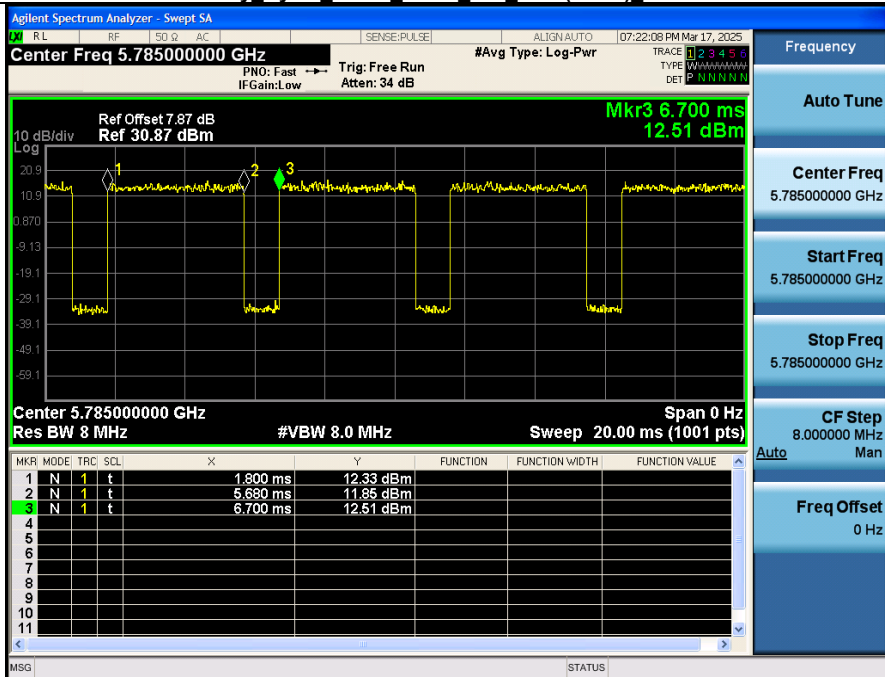
Duty Cycle NVNT ANT1 802_11ac(VHT20) 5825



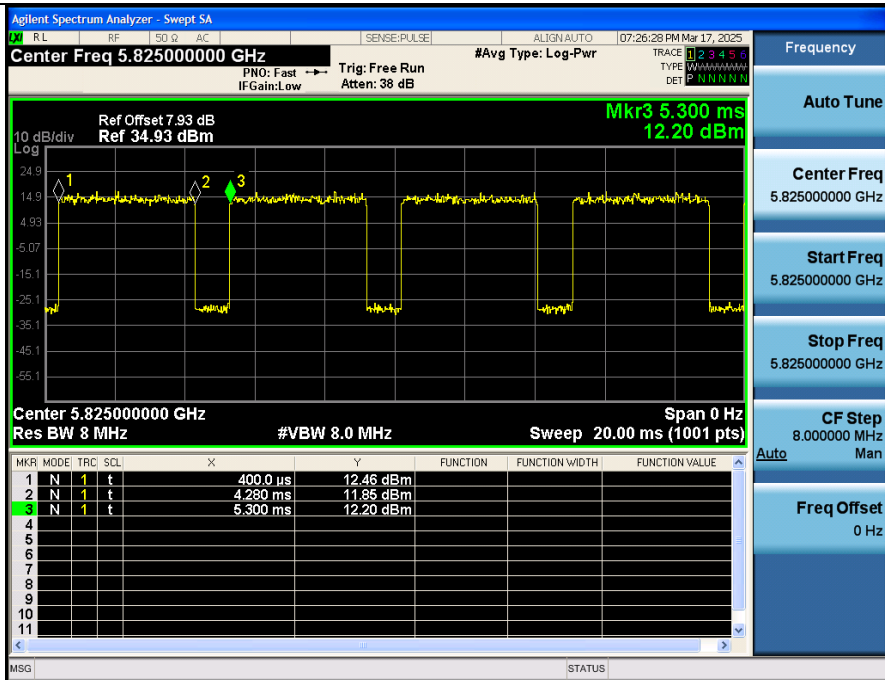
Duty Cycle NVNT ANT1 802_11ax(HE20) 5745



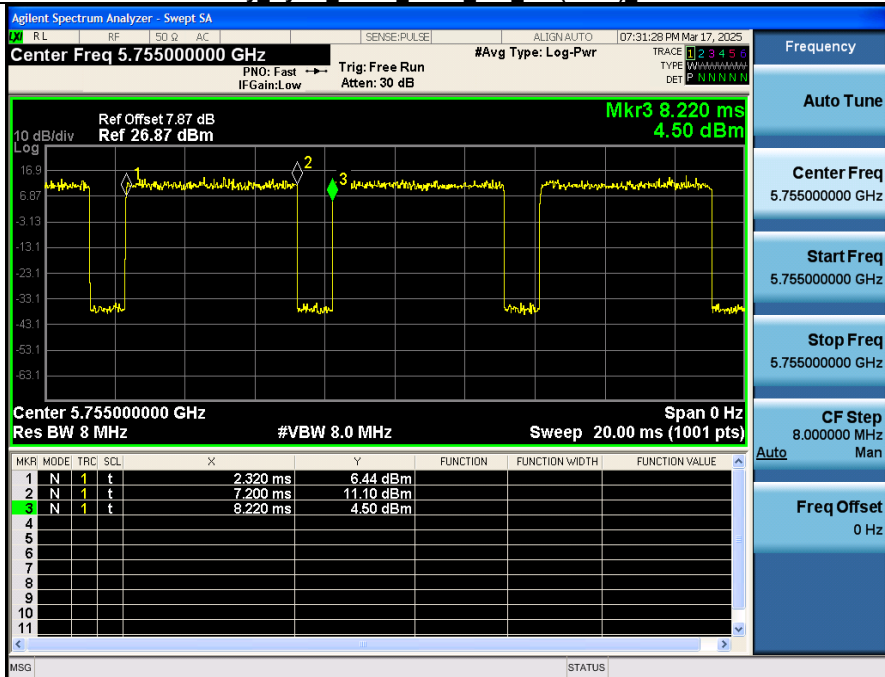
Duty Cycle NVNT ANT1 802 11ax(HE20) 5785



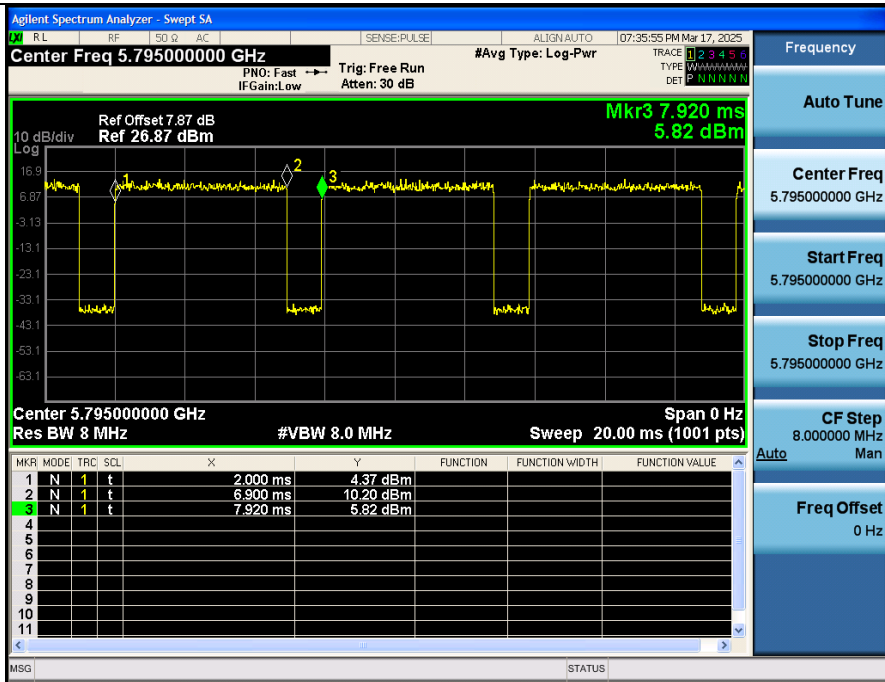
Duty Cycle NVNT ANT1 802 11ax(HE20) 5825



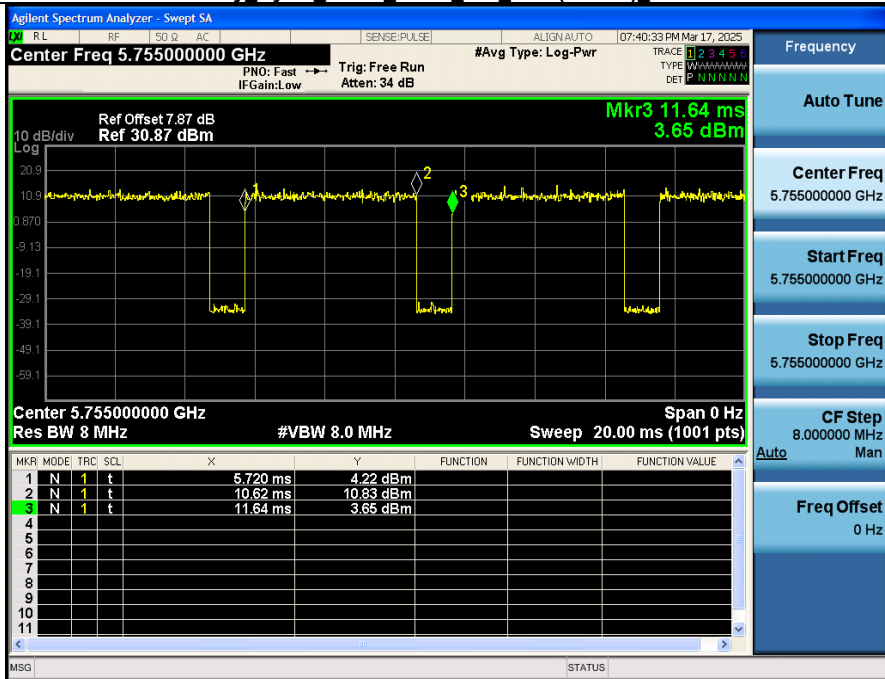
Duty Cycle NVNT ANT1 802 11n(HT40) 5755



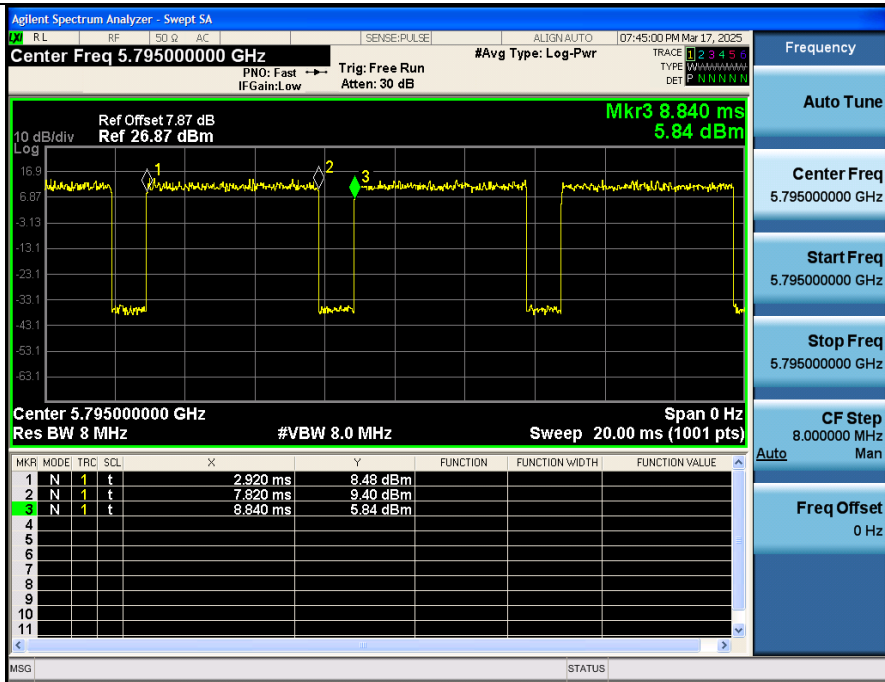
Duty Cycle NVNT ANT1 802 11n(HT40) 5795



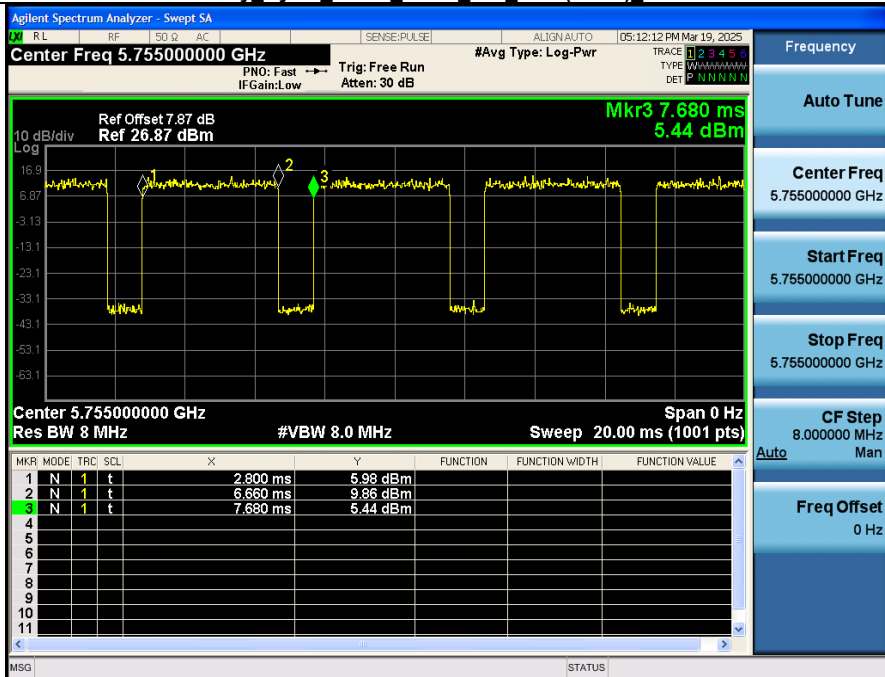
Duty Cycle NVNT ANT1_802_11ac(VHT40)_5755



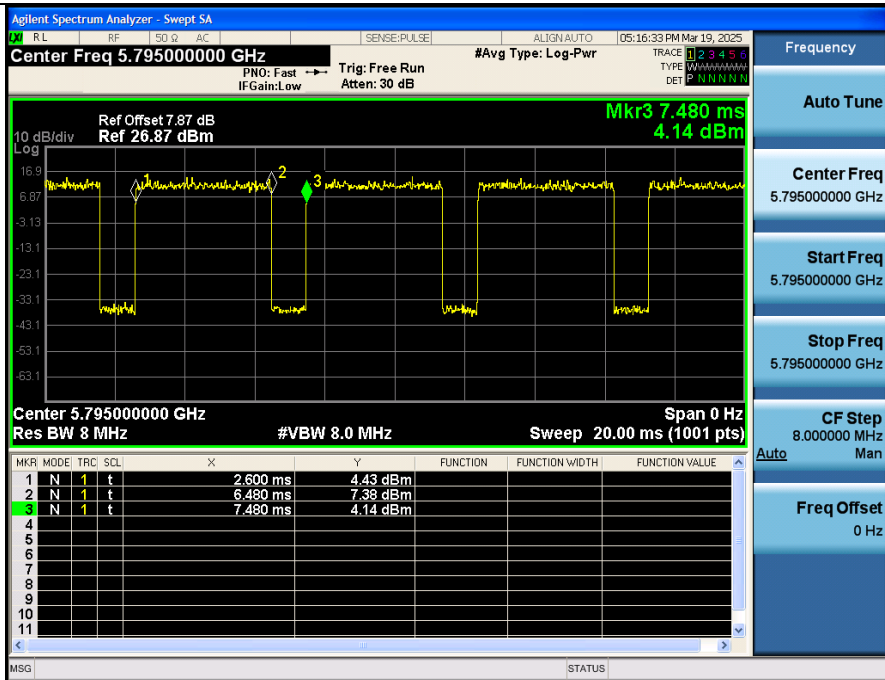
Duty Cycle NVNT ANT1_802_11ac(VHT40)_5795



Duty Cycle NVNT ANT1 802 11ax(HE40) 5755



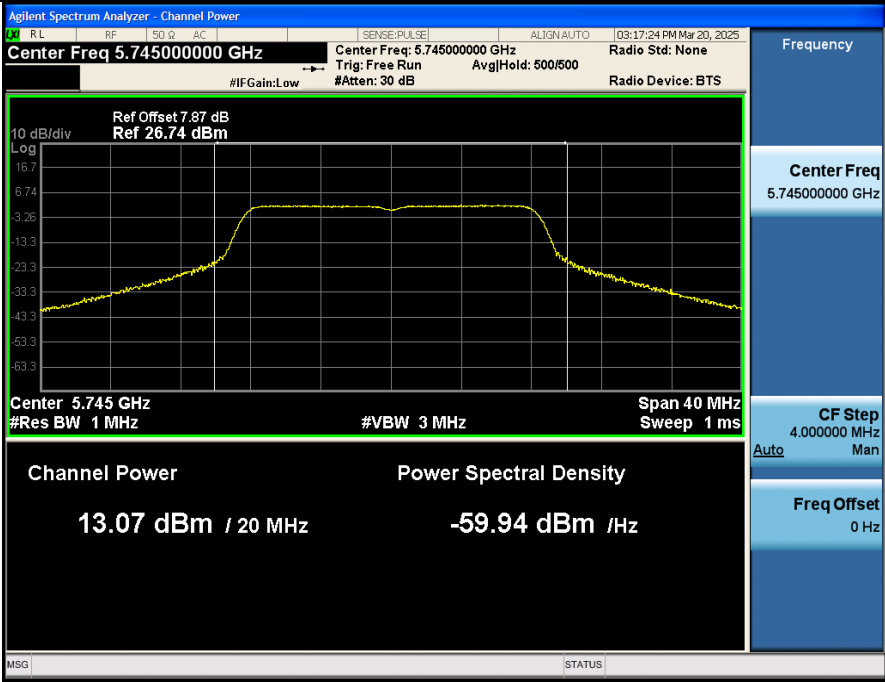
Duty Cycle NVNT ANT1 802 11ax(HE40) 5795



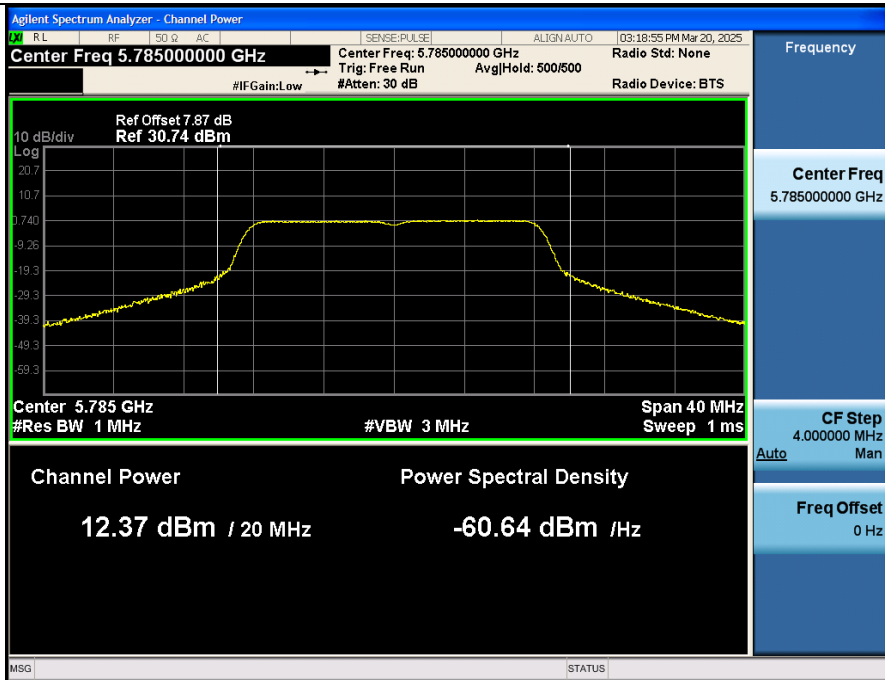
4. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	13.07	2.38	15.45	30	Pass
NVNT	ANT1	802.11a	5785.00	12.37	2.44	14.81	30	Pass
NVNT	ANT1	802.11a	5825.00	11.77	2.38	14.15	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	13.33	0.79	14.12	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	12.96	0.79	13.75	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	12.04	0.79	12.83	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	13.16	0.79	13.95	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	12.87	0.79	13.66	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	11.95	0.79	12.74	30	Pass
NVNT	ANT1	802.11ax(HE20)	5745.00	13.12	1.01	14.13	30	Pass
NVNT	ANT1	802.11ax(HE20)	5785.00	12.98	1.01	13.99	30	Pass
NVNT	ANT1	802.11ax(HE20)	5825.00	11.97	1.01	12.98	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	11.42	0.82	12.24	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	10.97	0.82	11.79	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	11.19	0.82	12.01	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	10.88	0.82	11.70	30	Pass
NVNT	ANT1	802.11ax(HE40)	5755.00	11.15	1.02	12.17	30	Pass
NVNT	ANT1	802.11ax(HE40)	5795.00	10.71	1.00	11.71	30	Pass

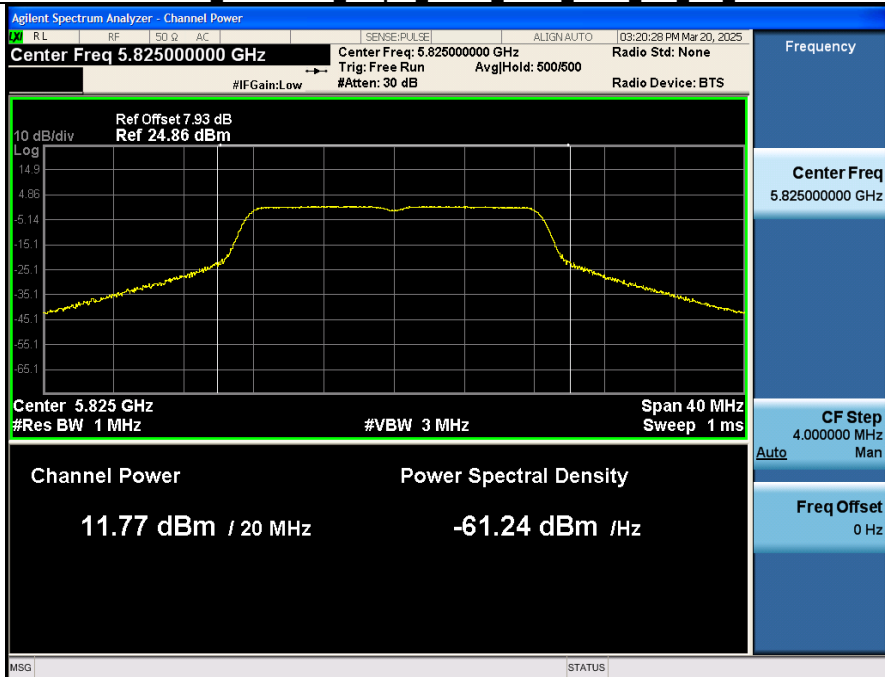
Maximum Conducted Output Power NVNT ANT1 802.11a 5745



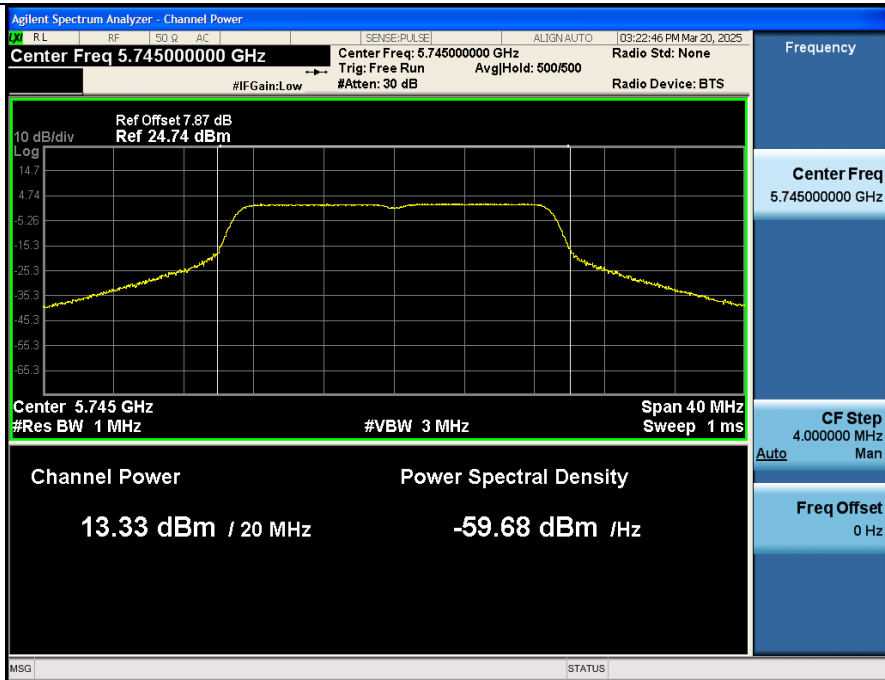
Maximum Conducted Output Power NVNT ANT1 802.11a 5785



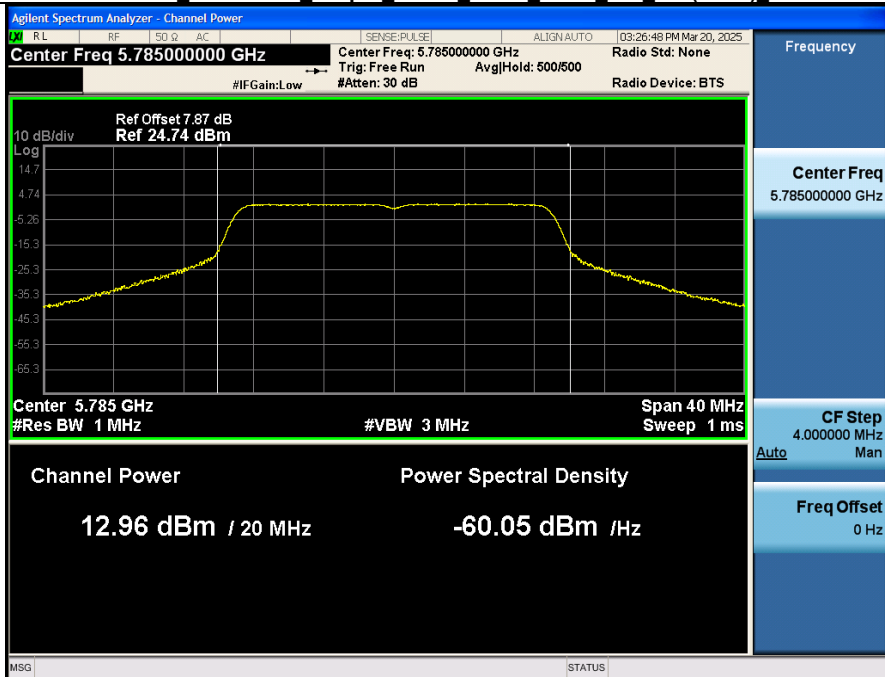
Maximum Conducted Output Power NVNT ANT1_802_11a_5825



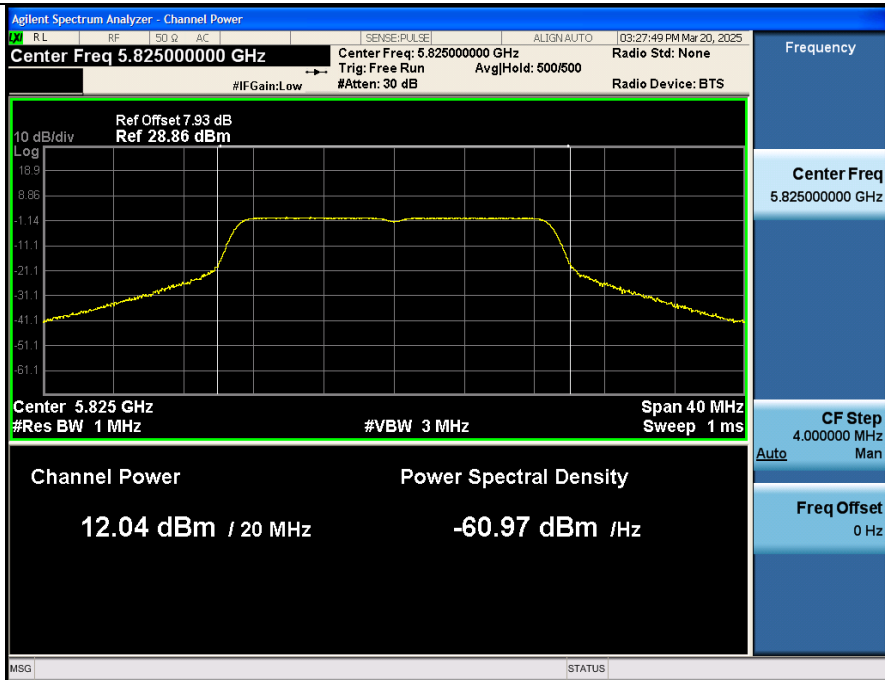
Maximum Conducted Output Power NVNT ANT1_802_11n(HT20)_5745



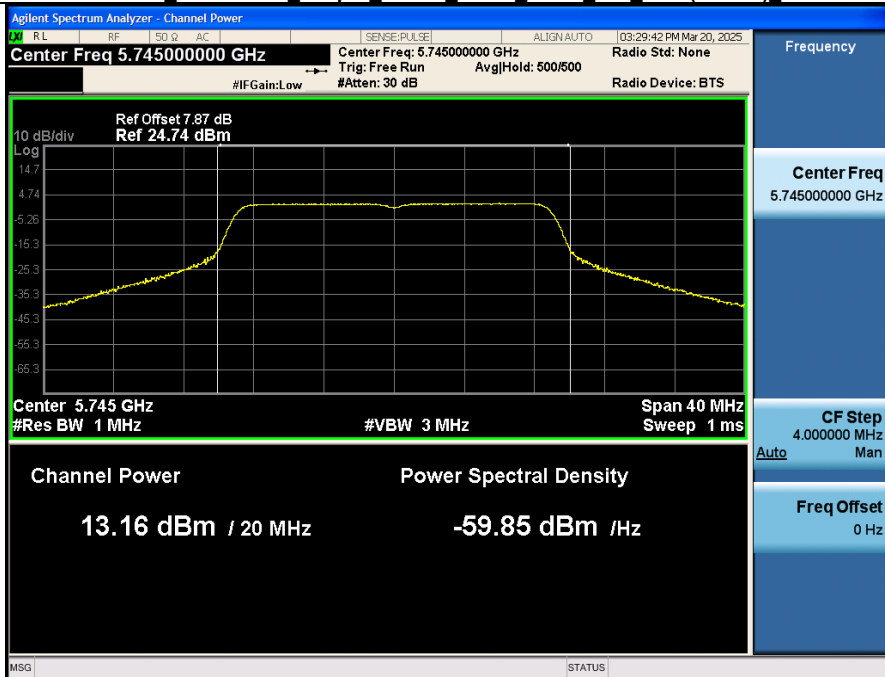
Maximum Conducted Output Power NVNT ANT1_802_11n(HT20)_5785



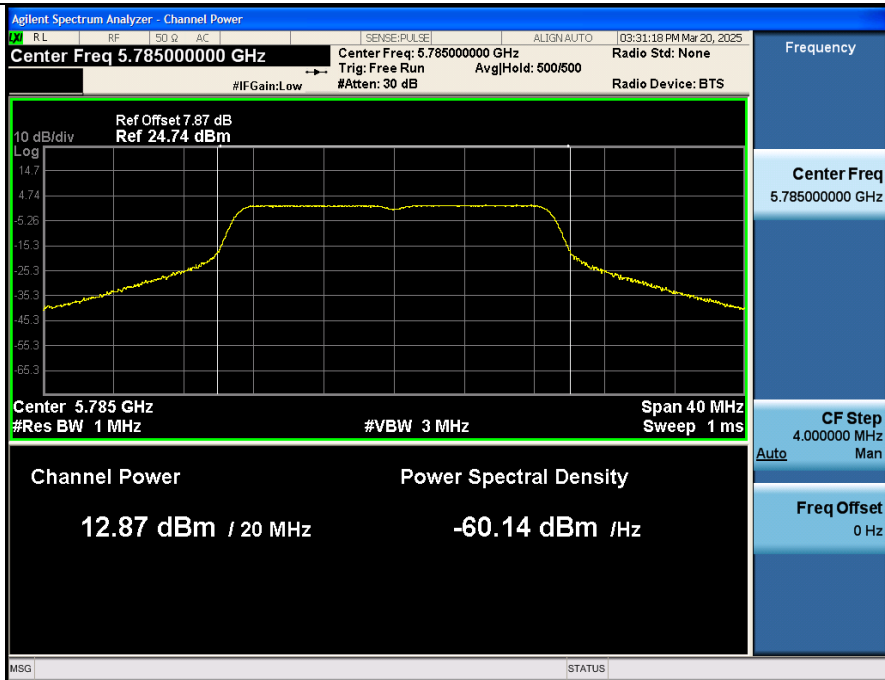
Maximum Conducted Output Power NVNT ANT1_802_11n(HT20)_5825



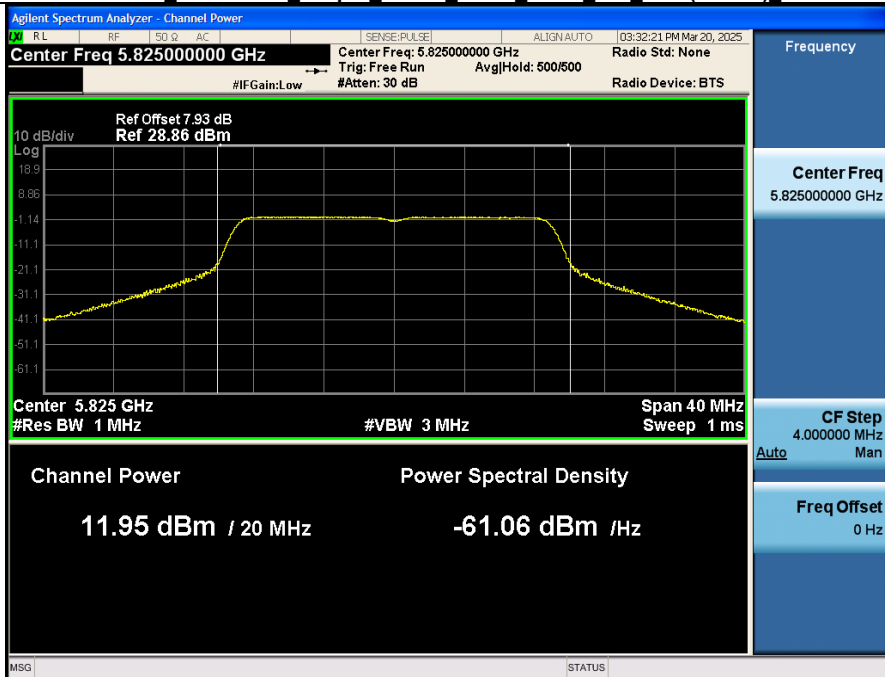
Maximum Conducted Output Power NVNT ANT1 802_11ac(VHT20) 5745



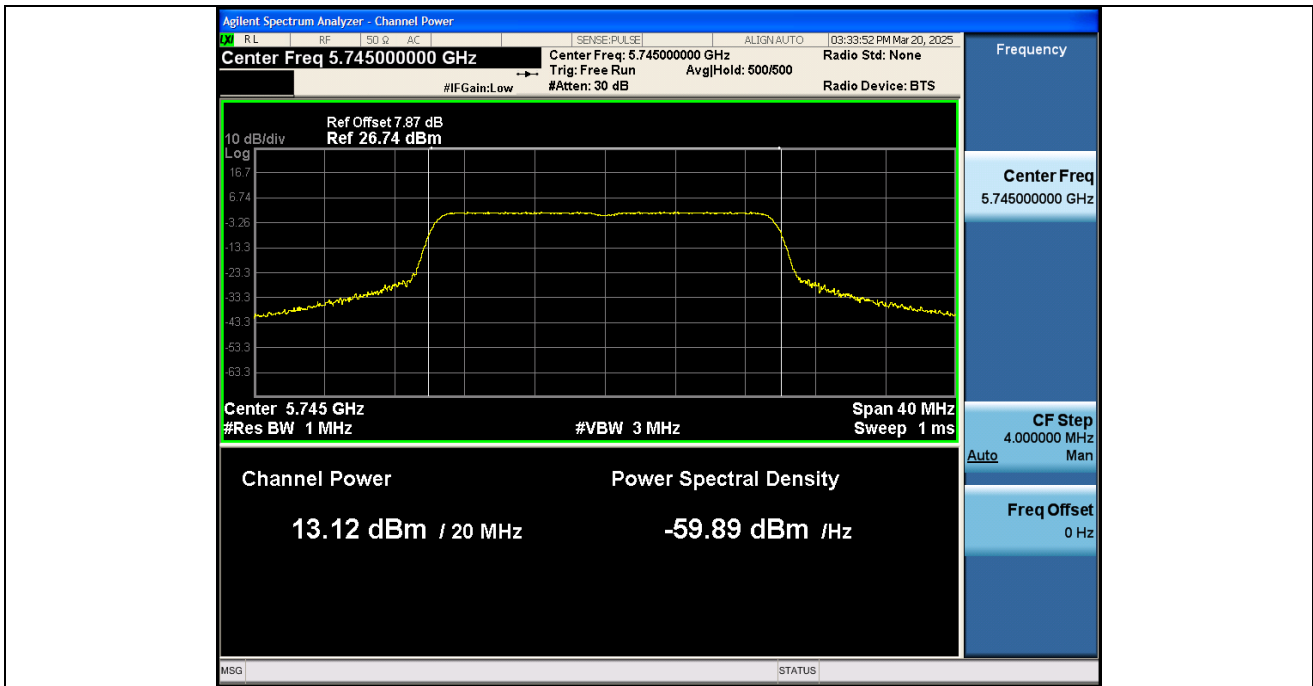
Maximum Conducted Output Power NVNT ANT1 802_11ac(VHT20) 5785



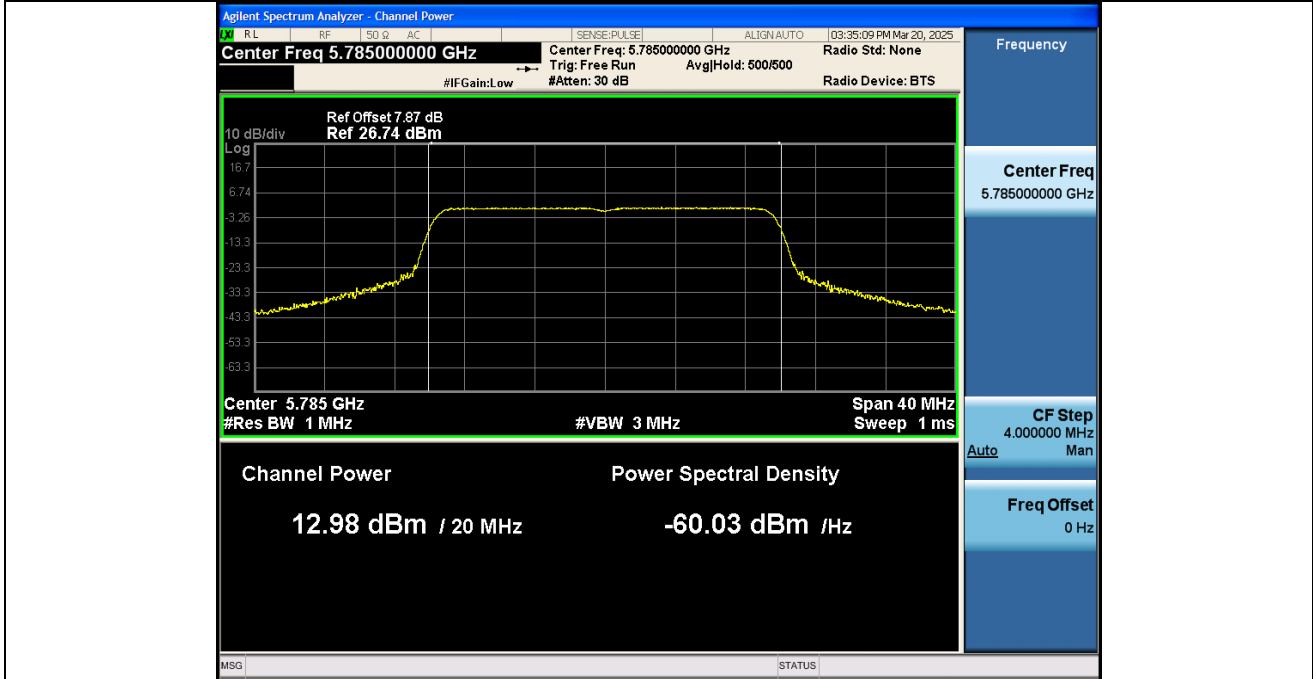
Maximum Conducted Output Power NVNT ANT1 802 11ac(VHT20) 5825



Maximum Conducted Output Power NVNT ANT1 802 11ax(HE20) 5745



Maximum Conducted Output Power_NVNT_ANT1_802_11ax(HE20)_5785



Maximum Conducted Output Power_NVNT_ANT1_802_11ax(HE20)_5825