

Appendix

Test Data

for BTEK250606005AE003

Start date	2025/6/13	Finish date	2025/6/25
Temperature	24.8℃	Humidity	45%
RF specifications	2.4G WIFI	Test Engineer	Zora



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1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.85	500	Pass
NVNT	ANT1	802.11b	2437.00	9.49	500	Pass
NVNT	ANT1	802.11b	2462.00	10.11	500	Pass
NVNT	ANT1	802.11g	2412.00	16.44	500	Pass
NVNT	ANT1	802.11g	2437.00	16.42	500	Pass
NVNT	ANT1	802.11g	2462.00	16.41	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.68	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.66	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.66	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	19.13	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	19.08	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	19.07	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	36.44	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	36.46	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	36.49	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	38.26	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	38.27	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	38.26	500	Pass

-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



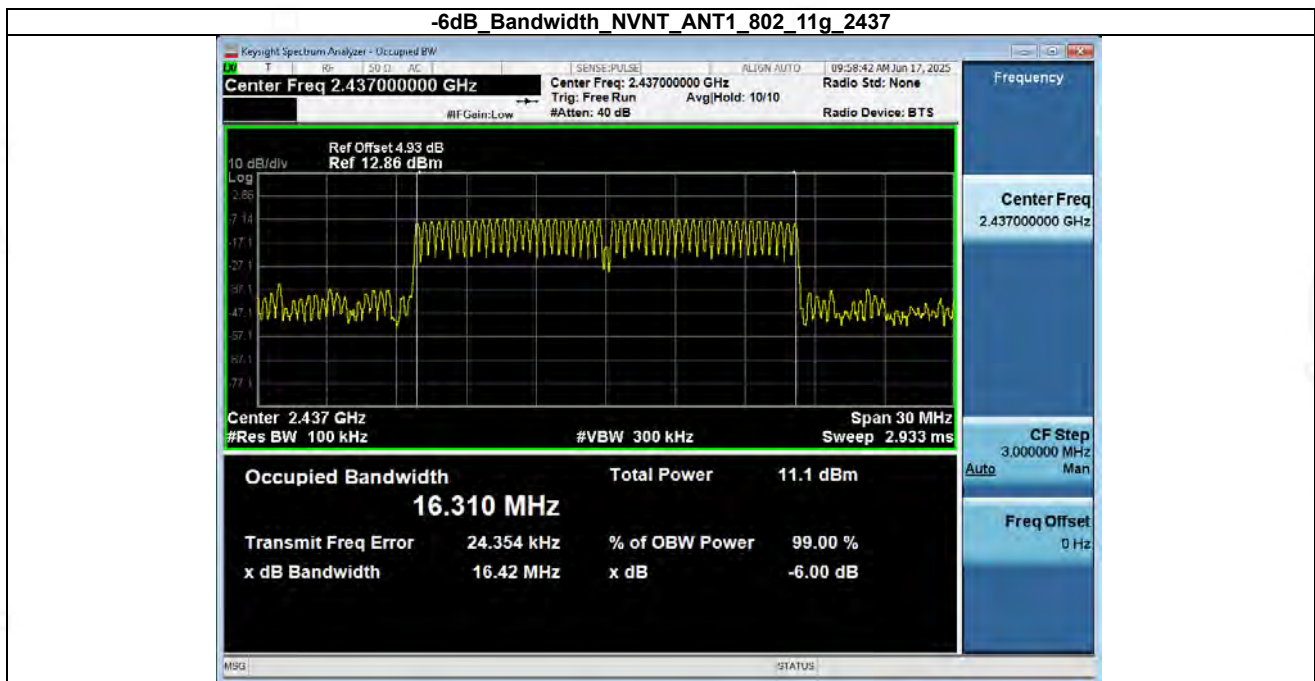
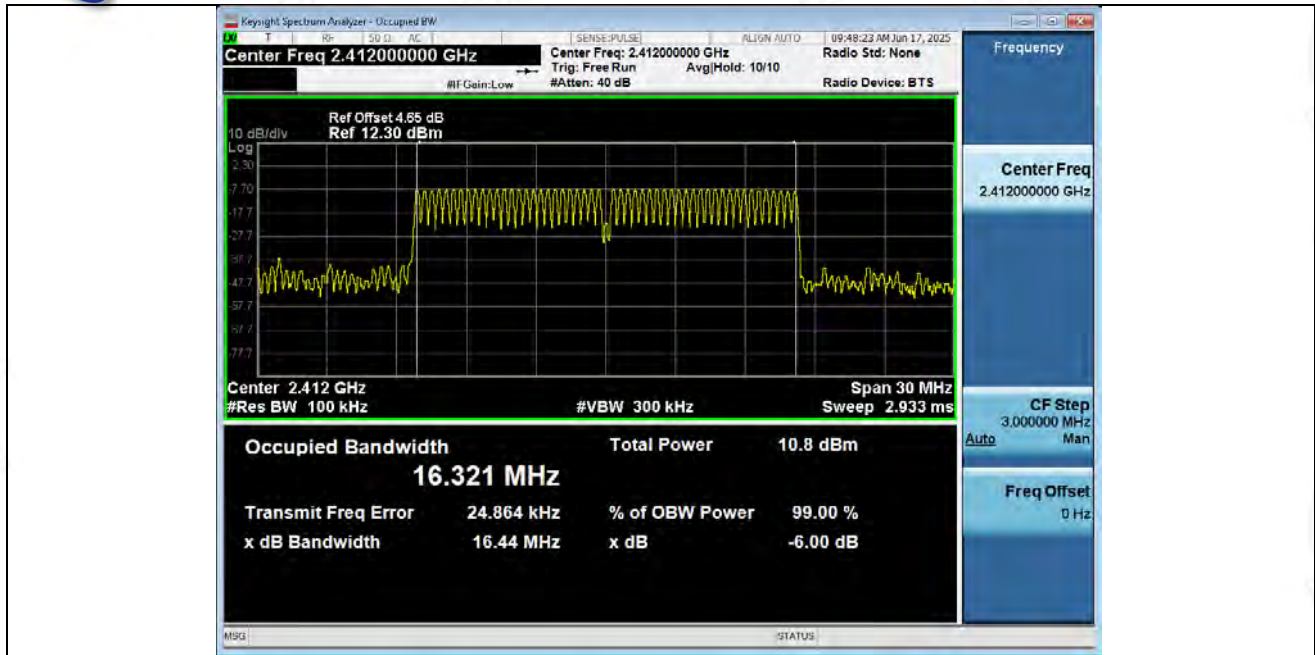
-6dB_Bandwidth_NVNT_ANT1_802_11b_2437





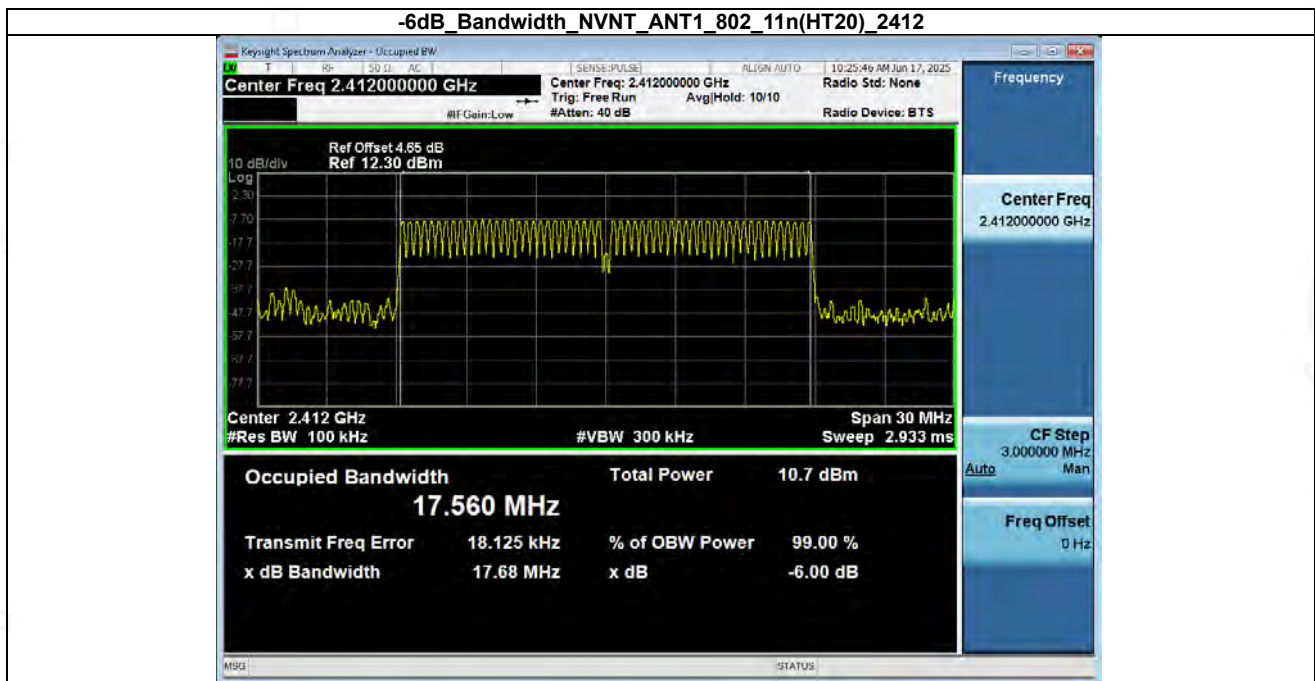
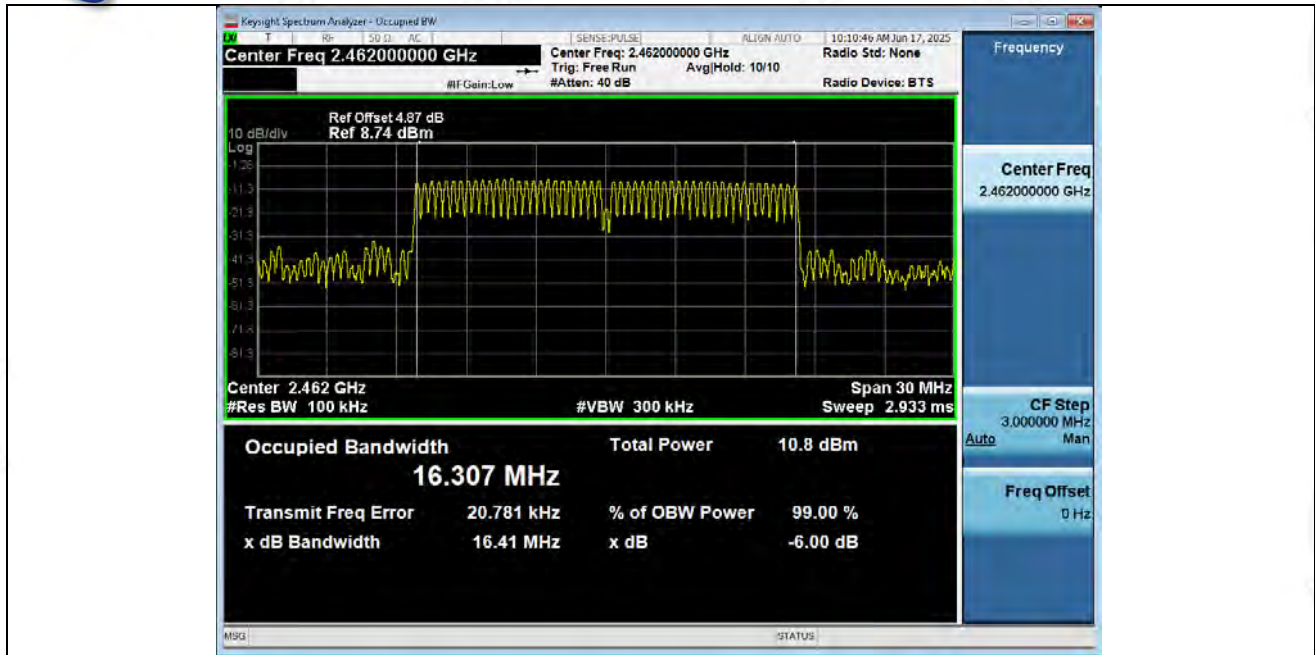
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412





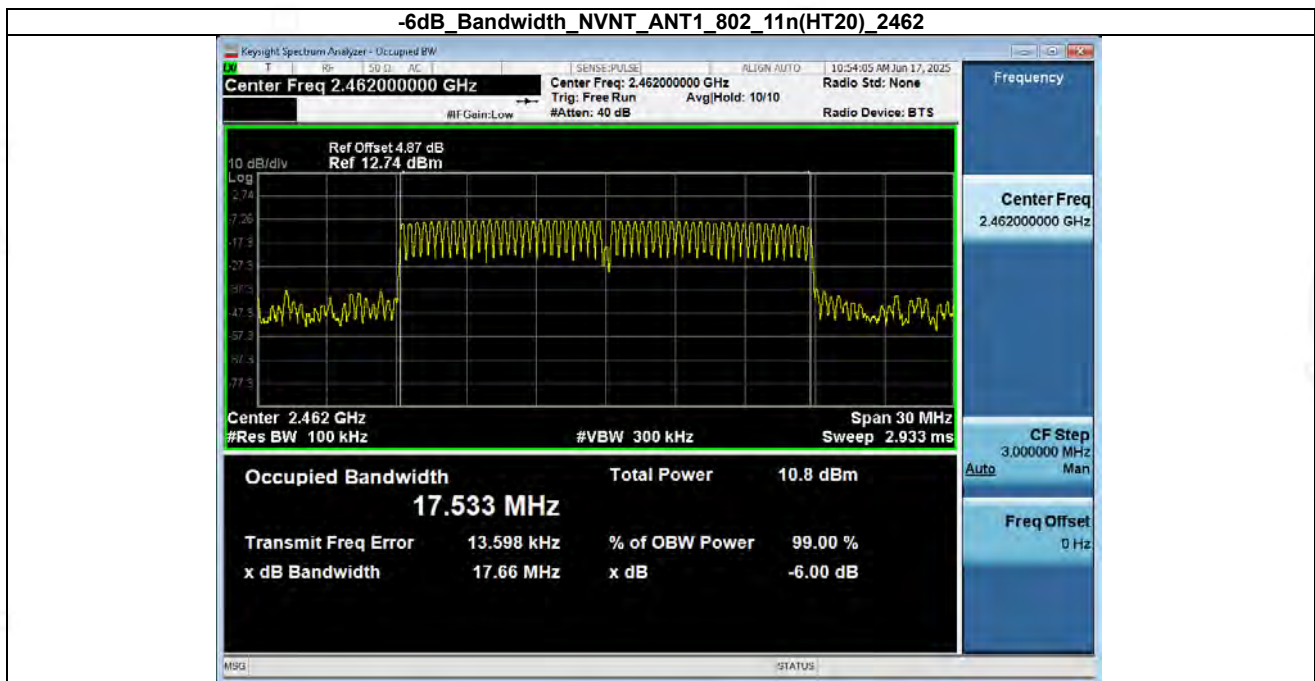
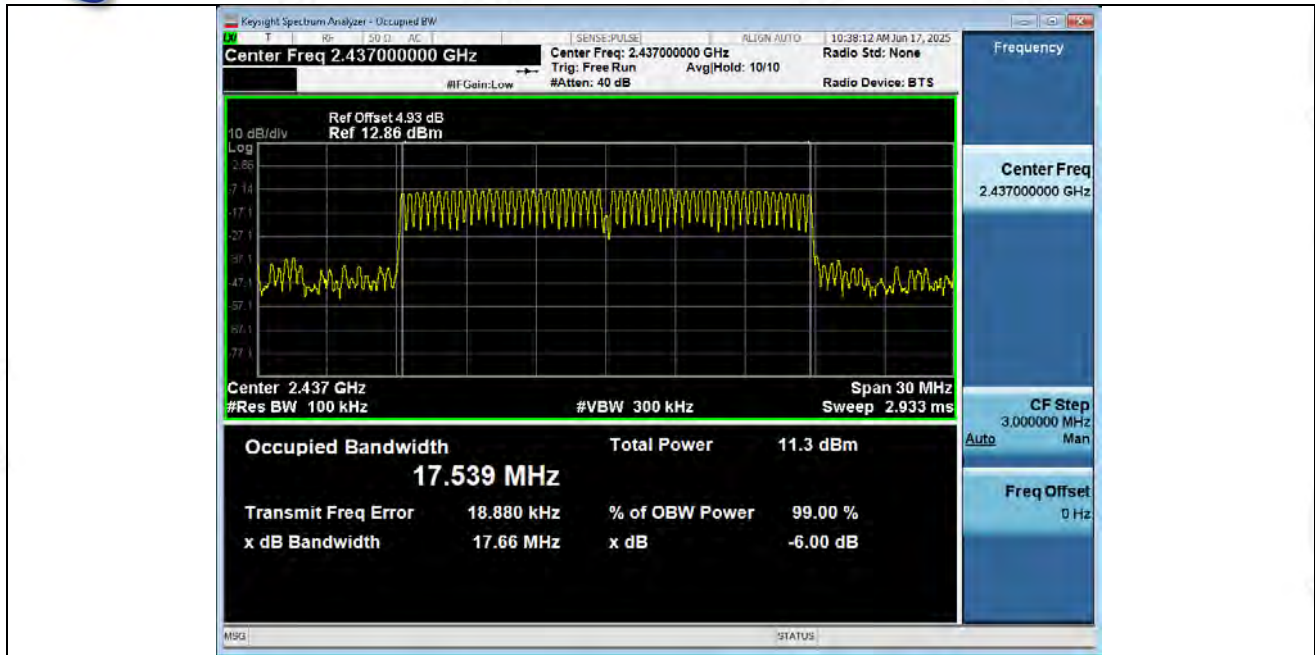
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462





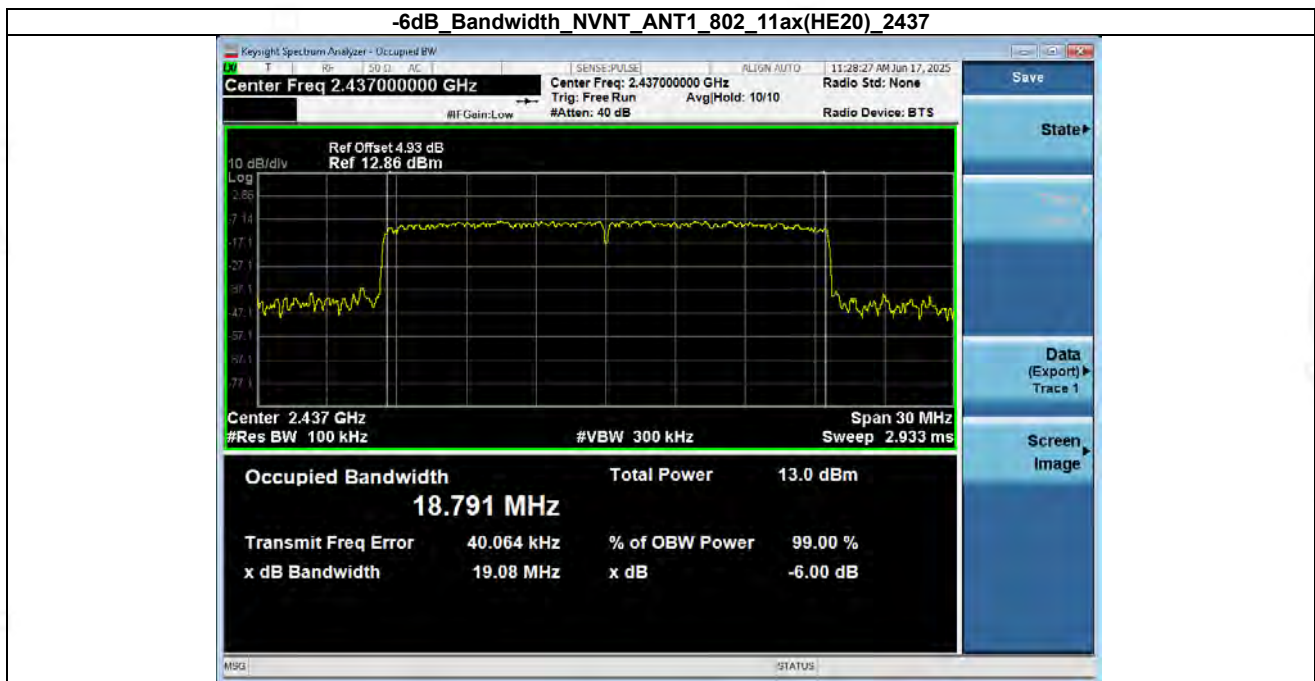
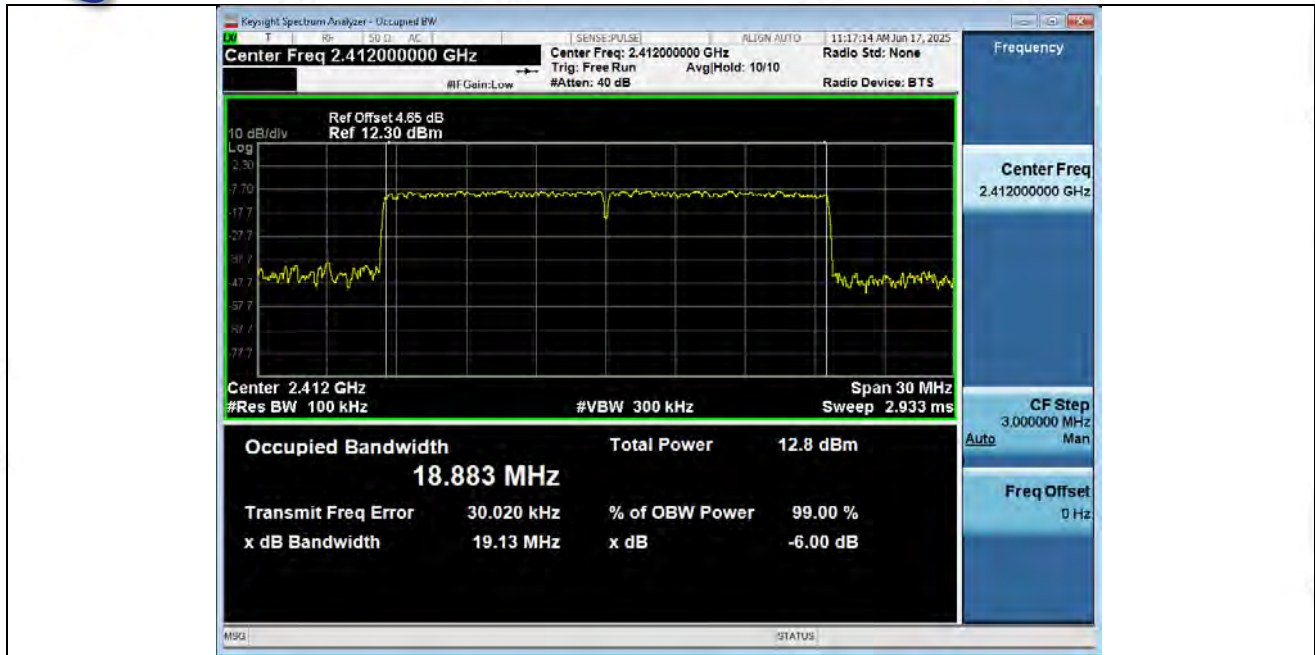
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437

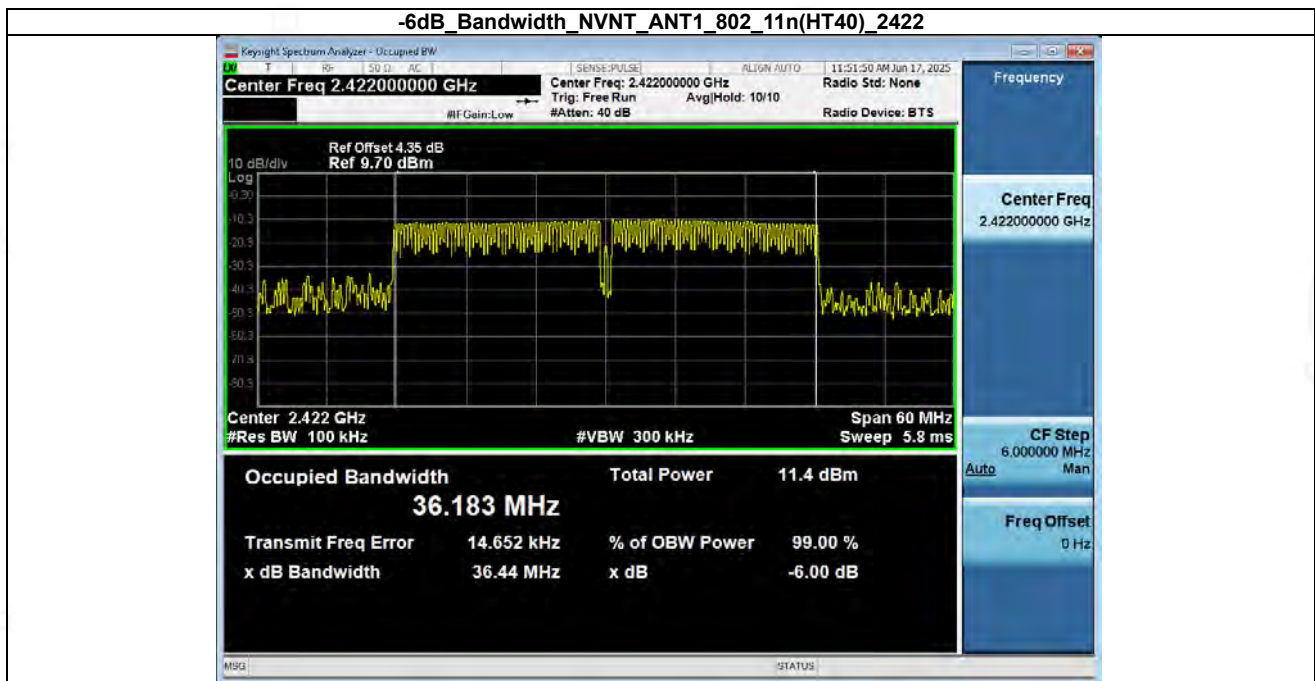
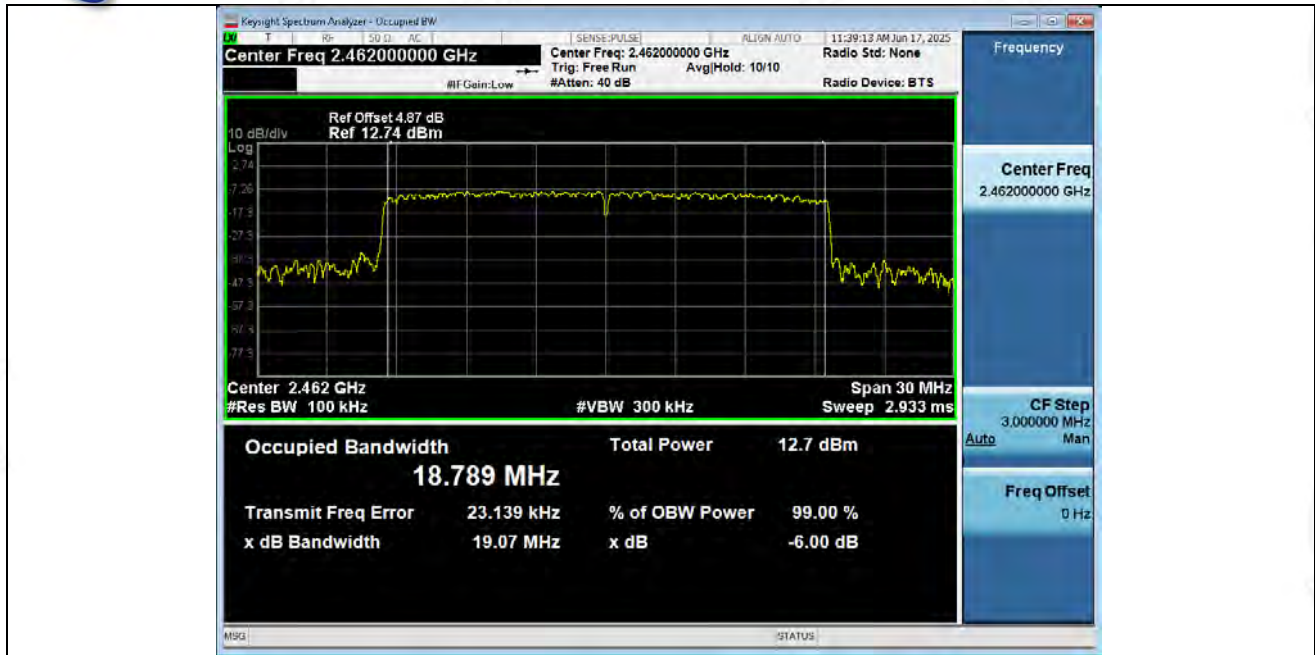


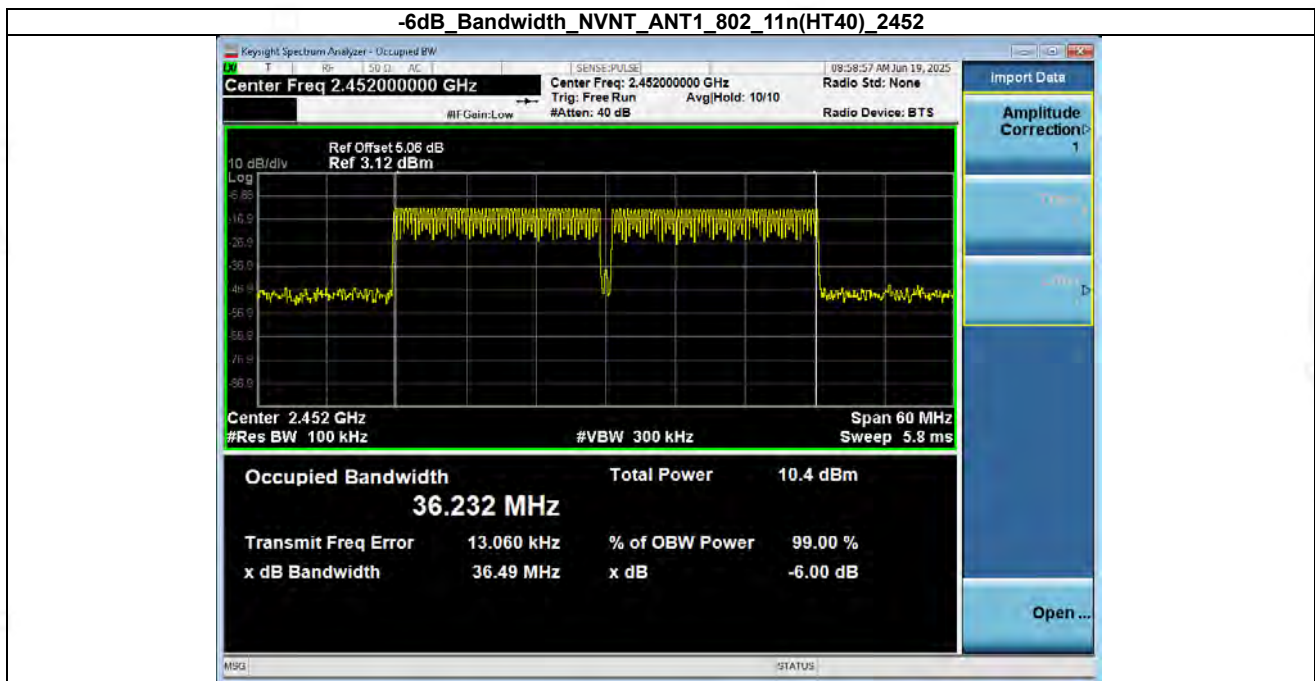
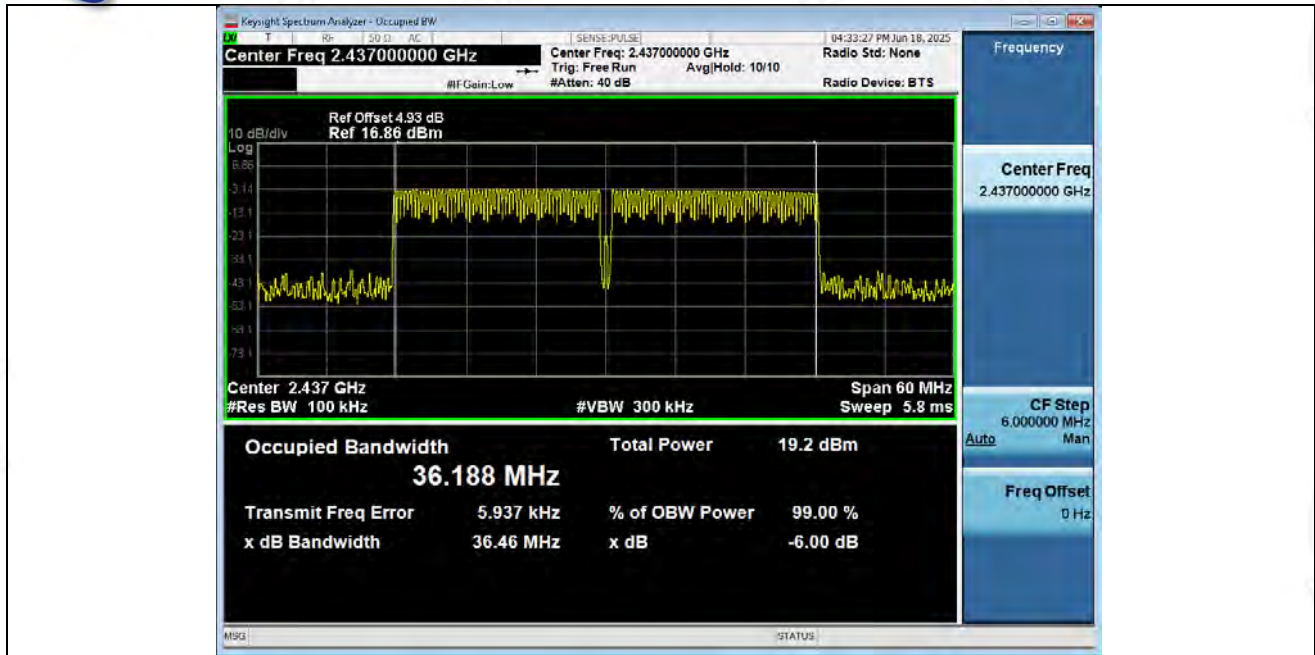


-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



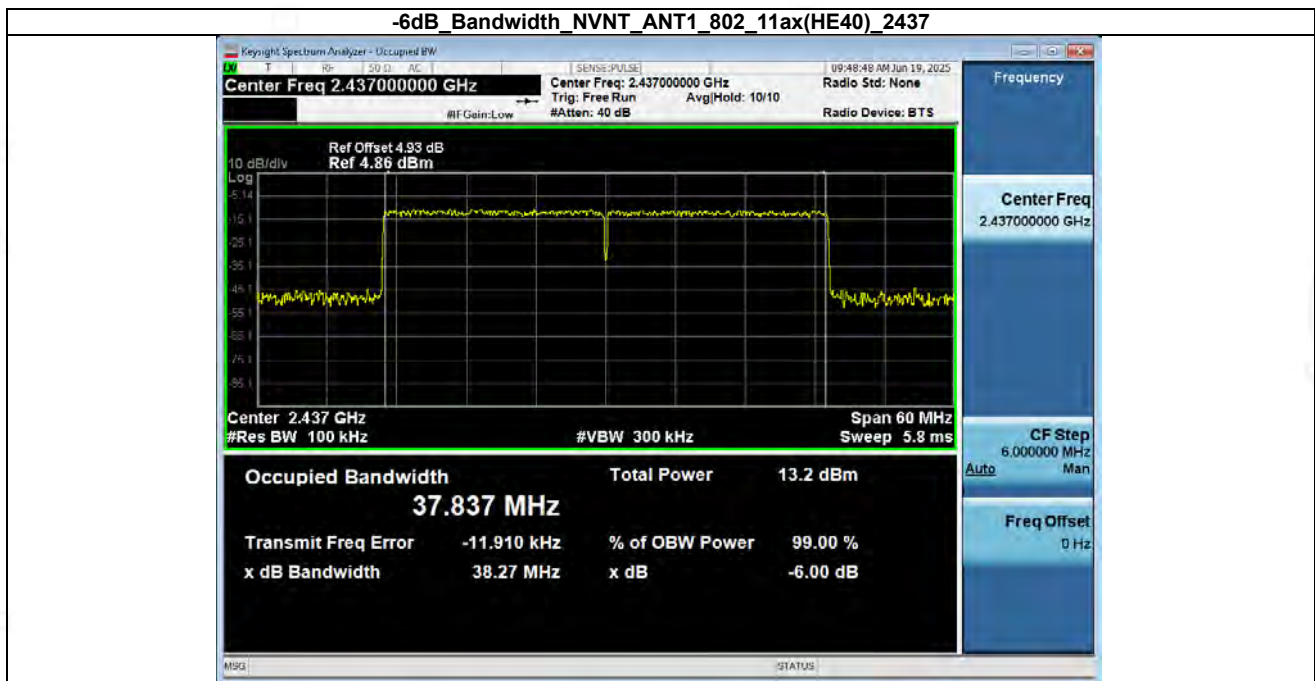






-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2422





-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452

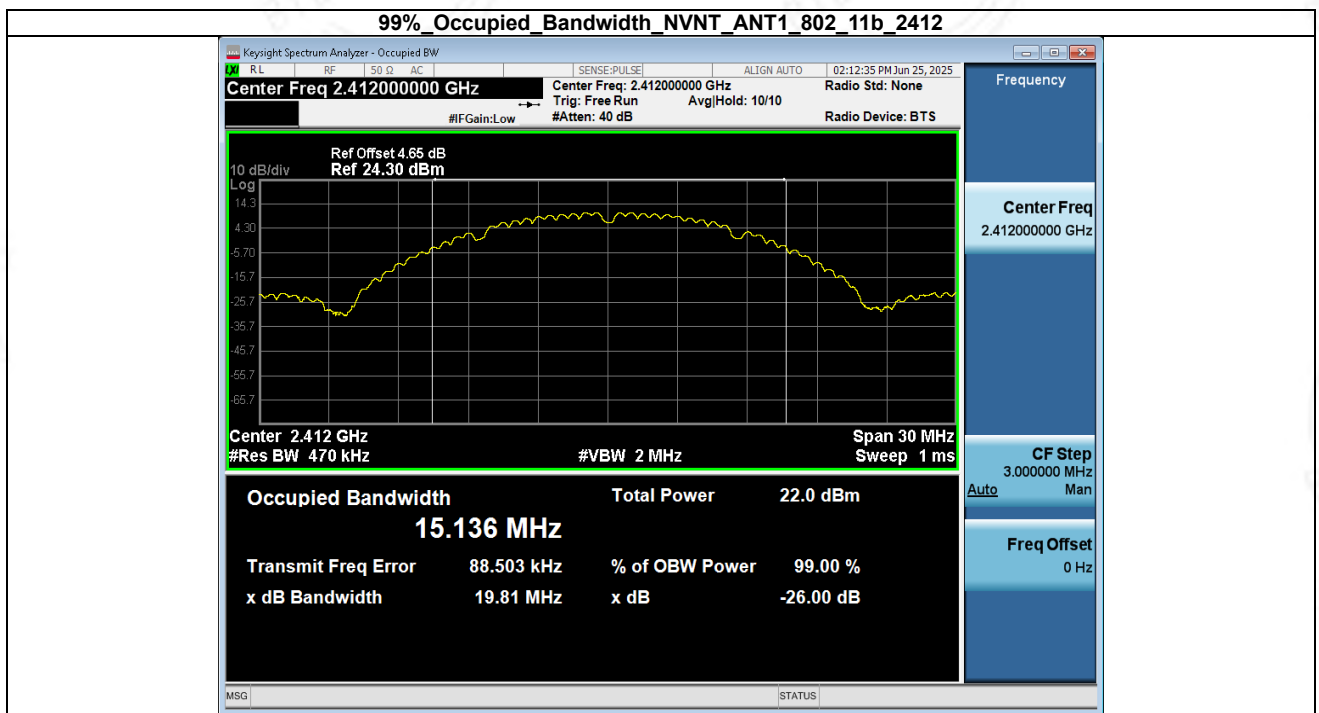




2. 99% Occupied Bandwidth

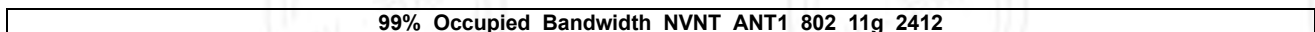
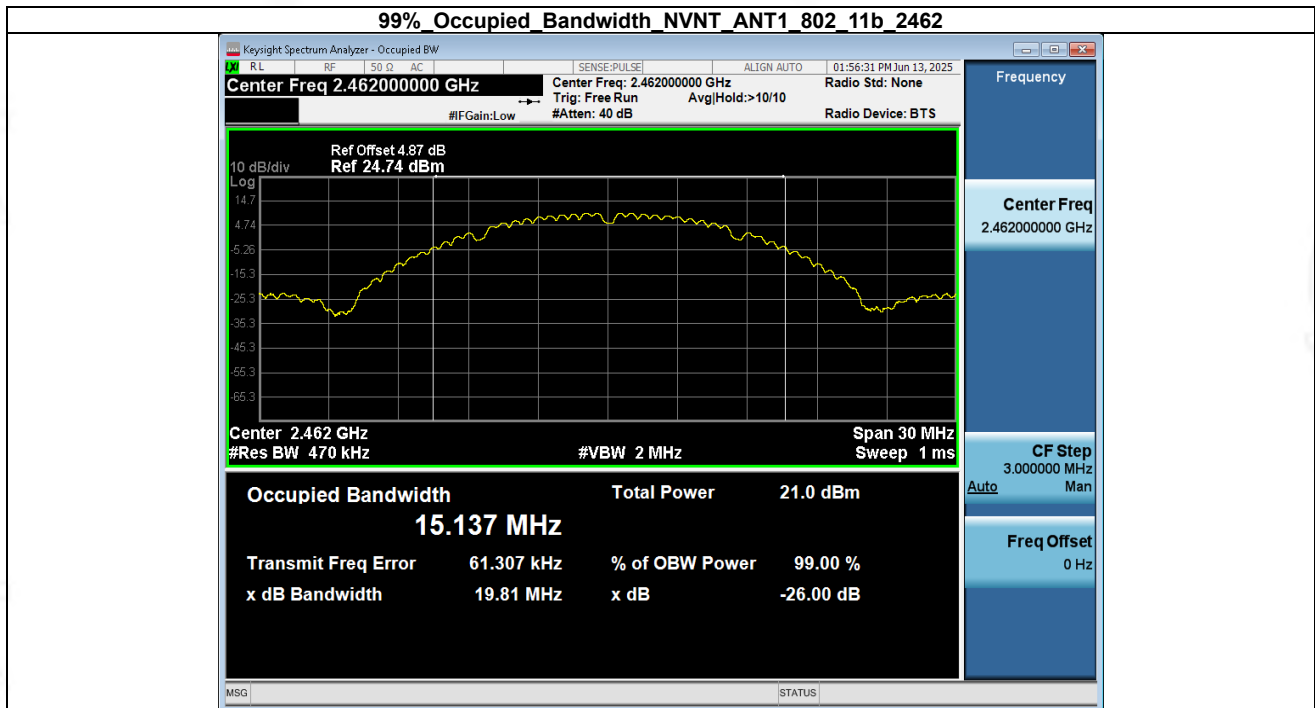
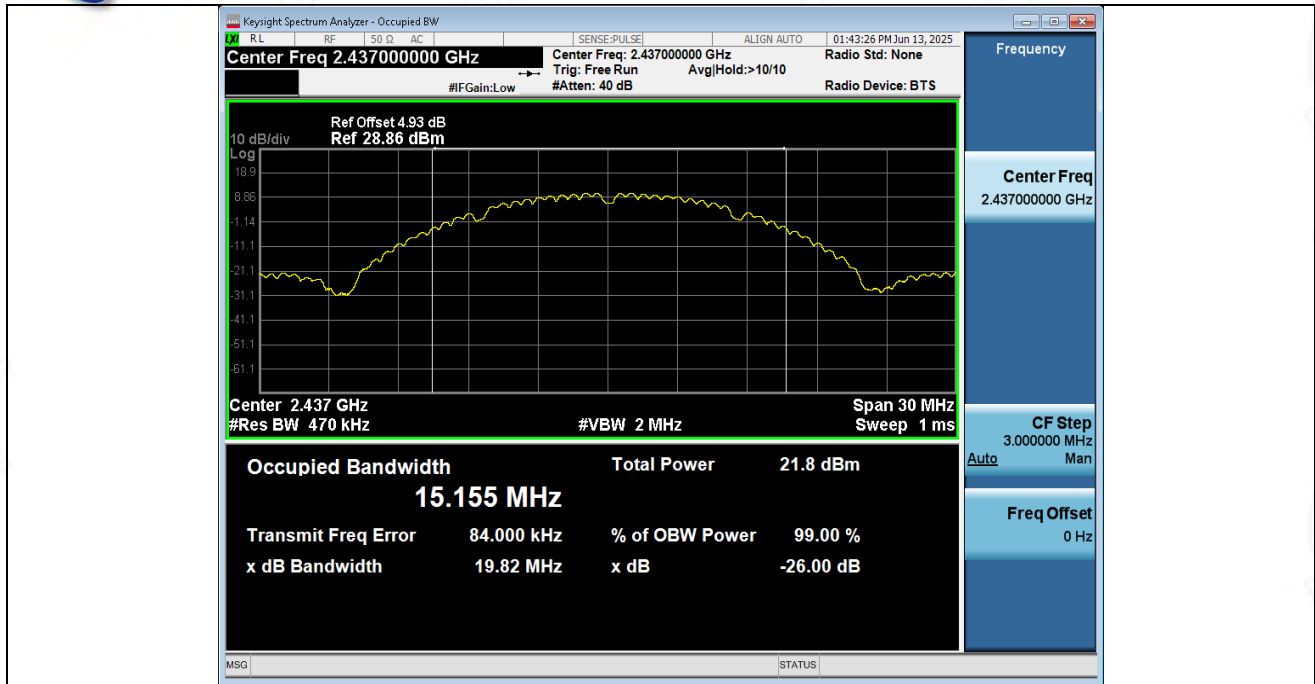
Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	15.136
NVNT	ANT1	802.11b	2437.00	15.155
NVNT	ANT1	802.11b	2462.00	15.137
NVNT	ANT1	802.11g	2412.00	16.395
NVNT	ANT1	802.11g	2437.00	16.368
NVNT	ANT1	802.11g	2462.00	16.400
NVNT	ANT1	802.11n(HT20)	2412.00	17.626
NVNT	ANT1	802.11n(HT20)	2437.00	17.568
NVNT	ANT1	802.11n(HT20)	2462.00	17.552
NVNT	ANT1	802.11ax(HE20)	2412.00	19.049
NVNT	ANT1	802.11ax(HE20)	2437.00	18.941
NVNT	ANT1	802.11ax(HE20)	2462.00	18.964
NVNT	ANT1	802.11n(HT40)	2422.00	36.270
NVNT	ANT1	802.11n(HT40)	2437.00	36.273
NVNT	ANT1	802.11n(HT40)	2452.00	36.278
NVNT	ANT1	802.11ax(HE40)	2422.00	37.885
NVNT	ANT1	802.11ax(HE40)	2437.00	37.893
NVNT	ANT1	802.11ax(HE40)	2452.00	37.887

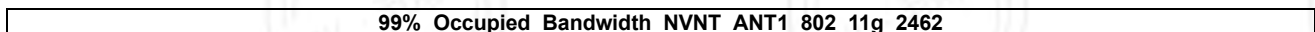
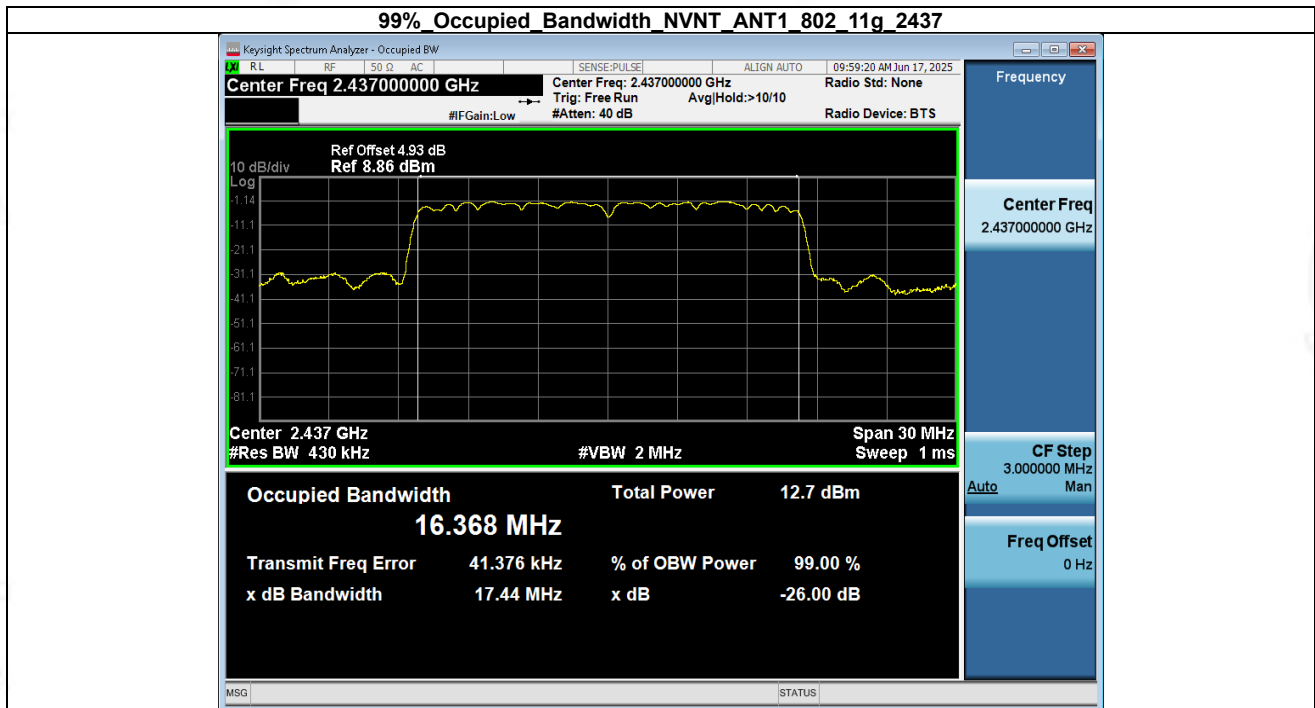
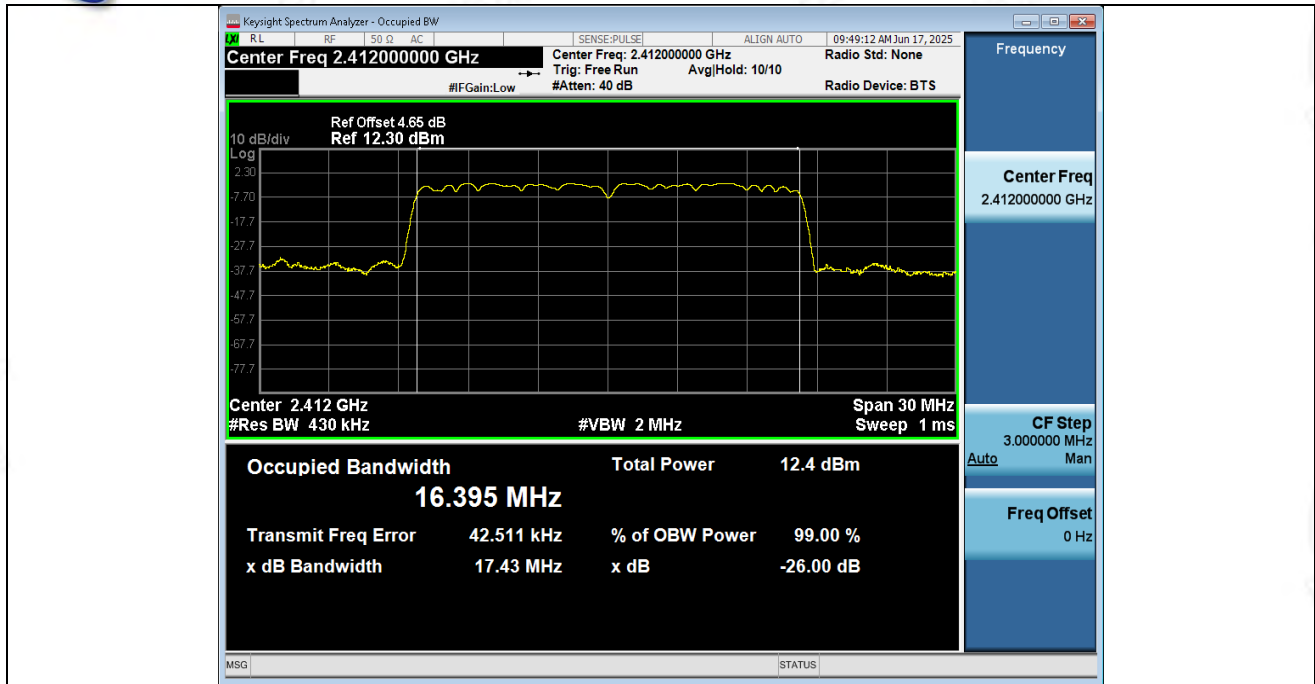
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412

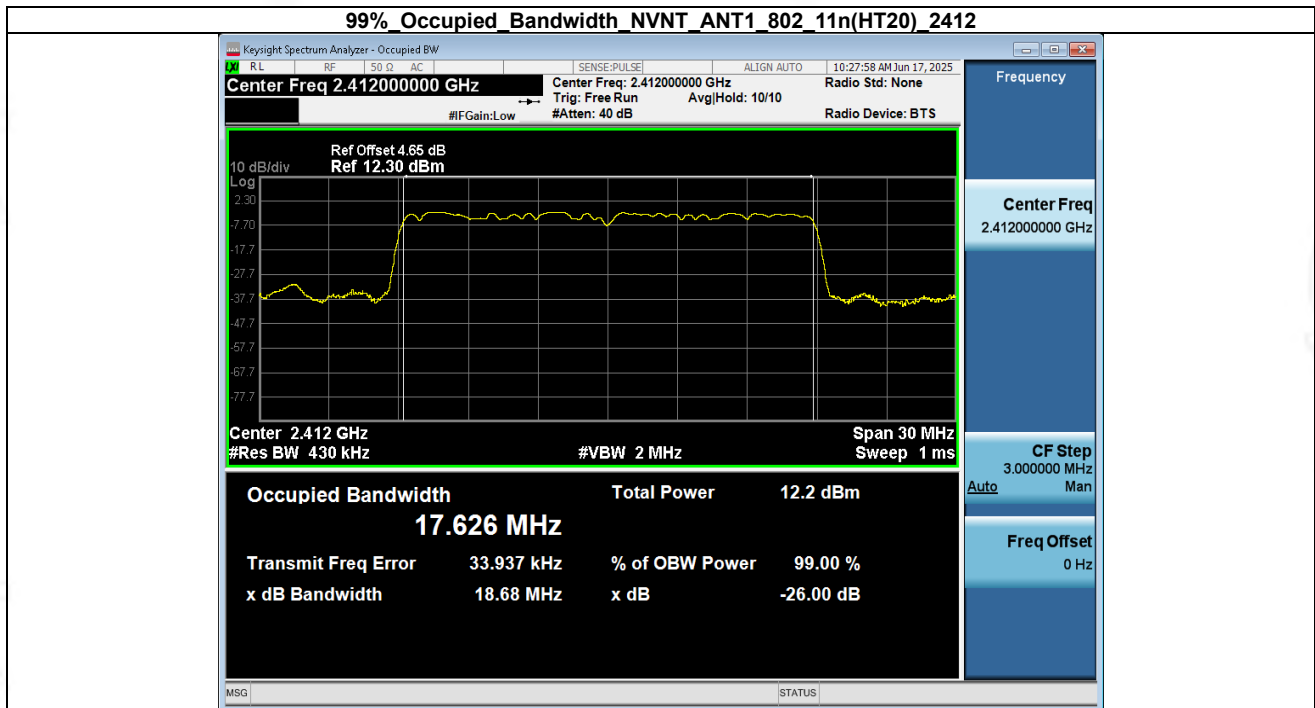
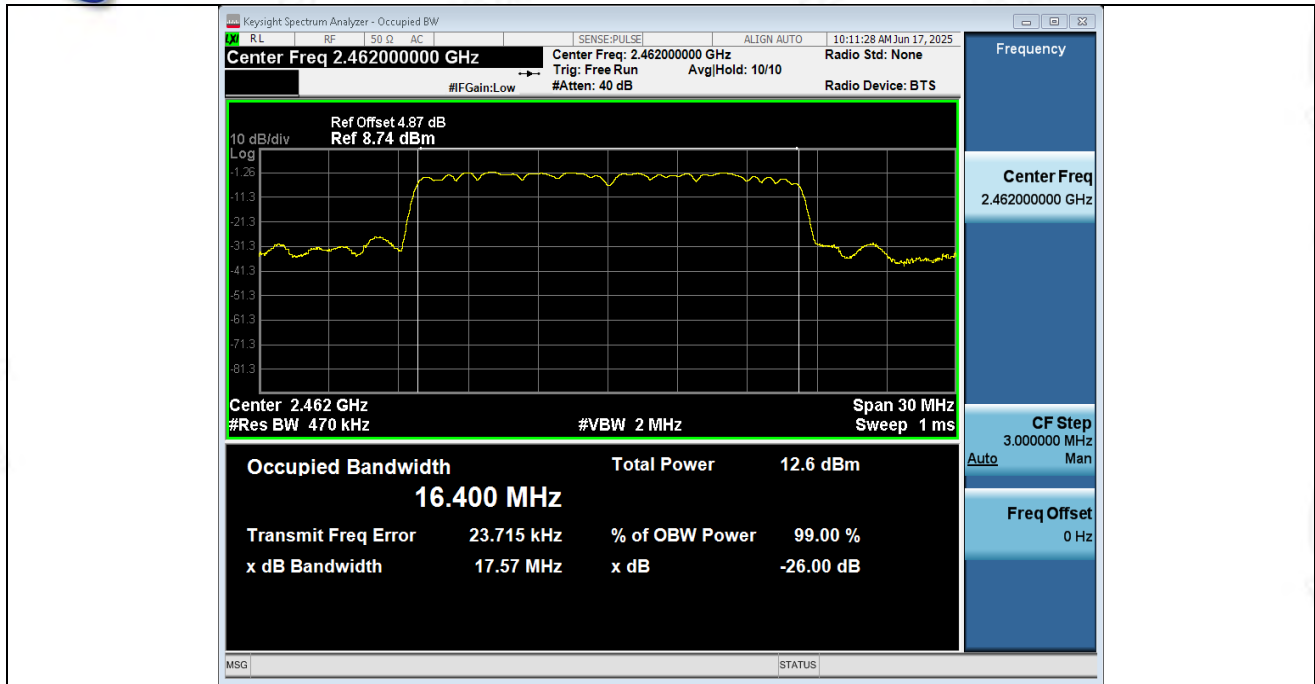


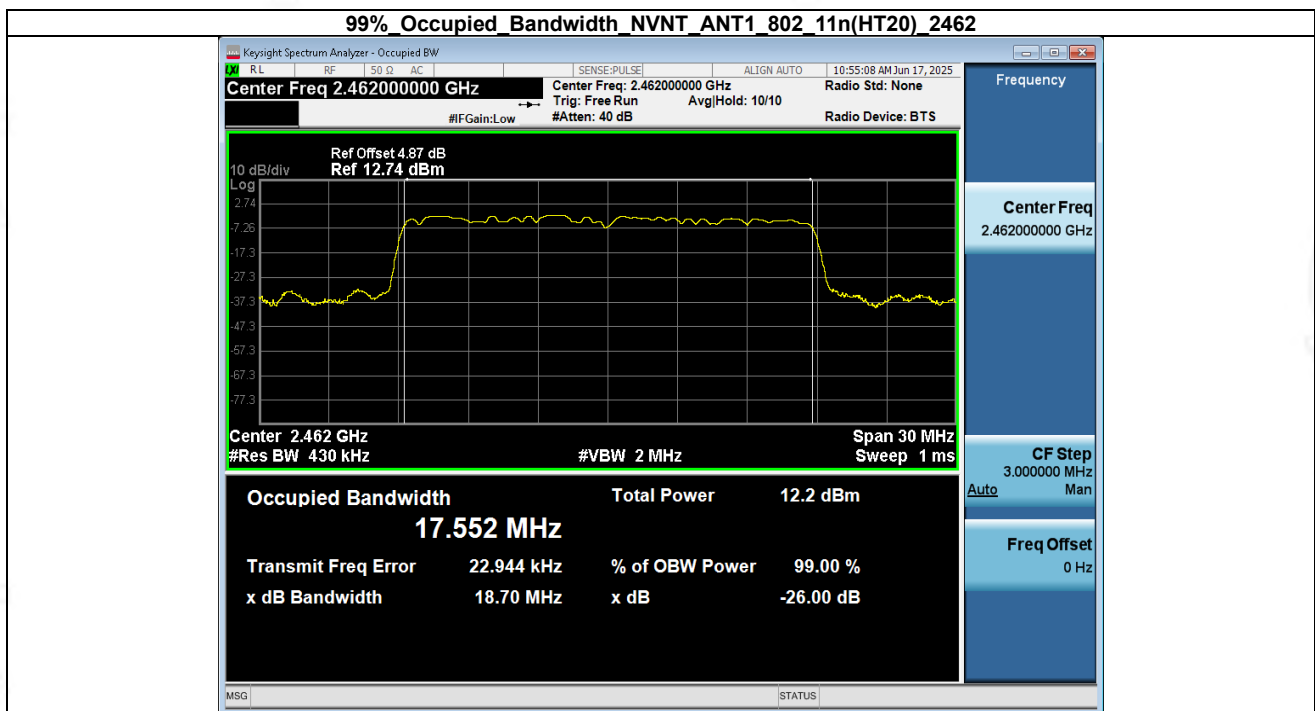
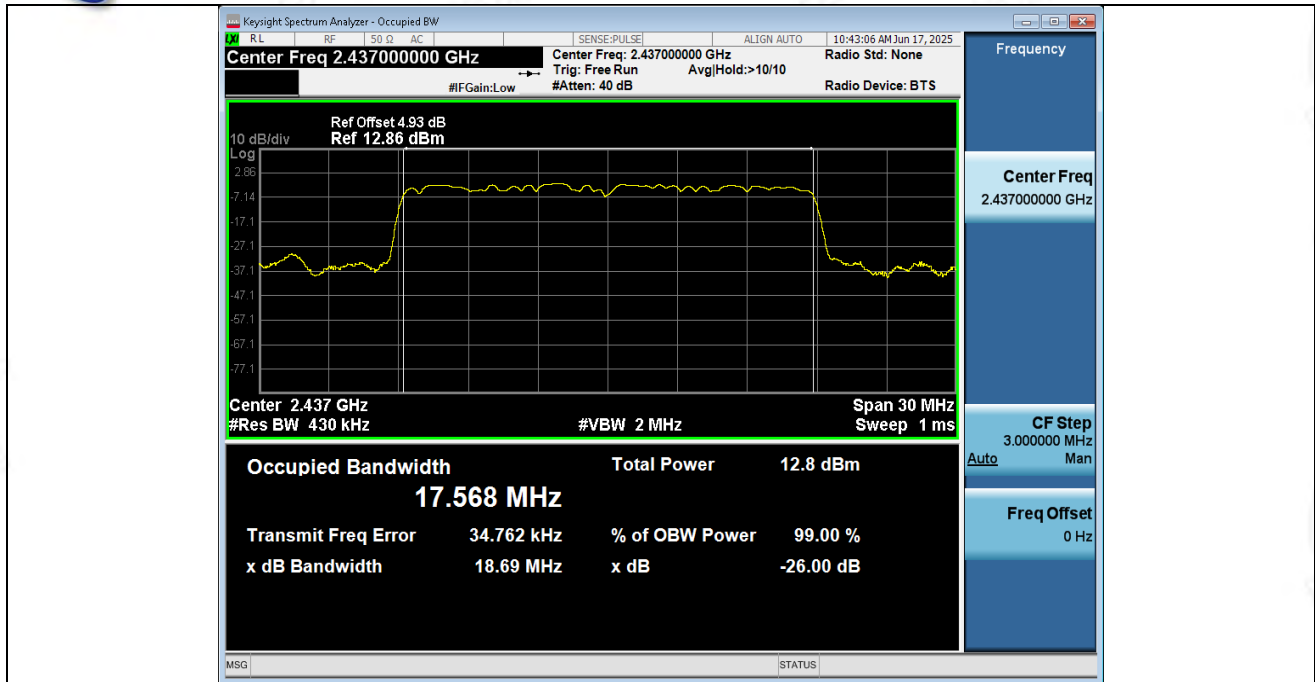
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2437





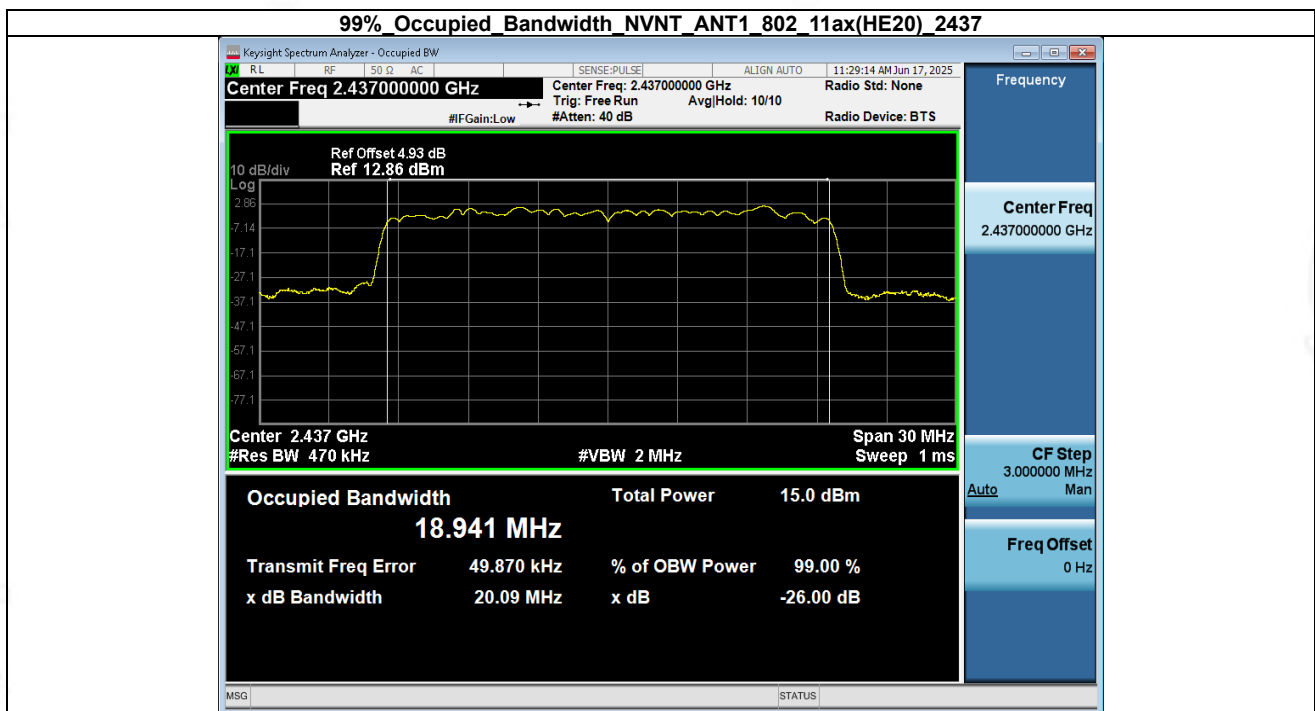
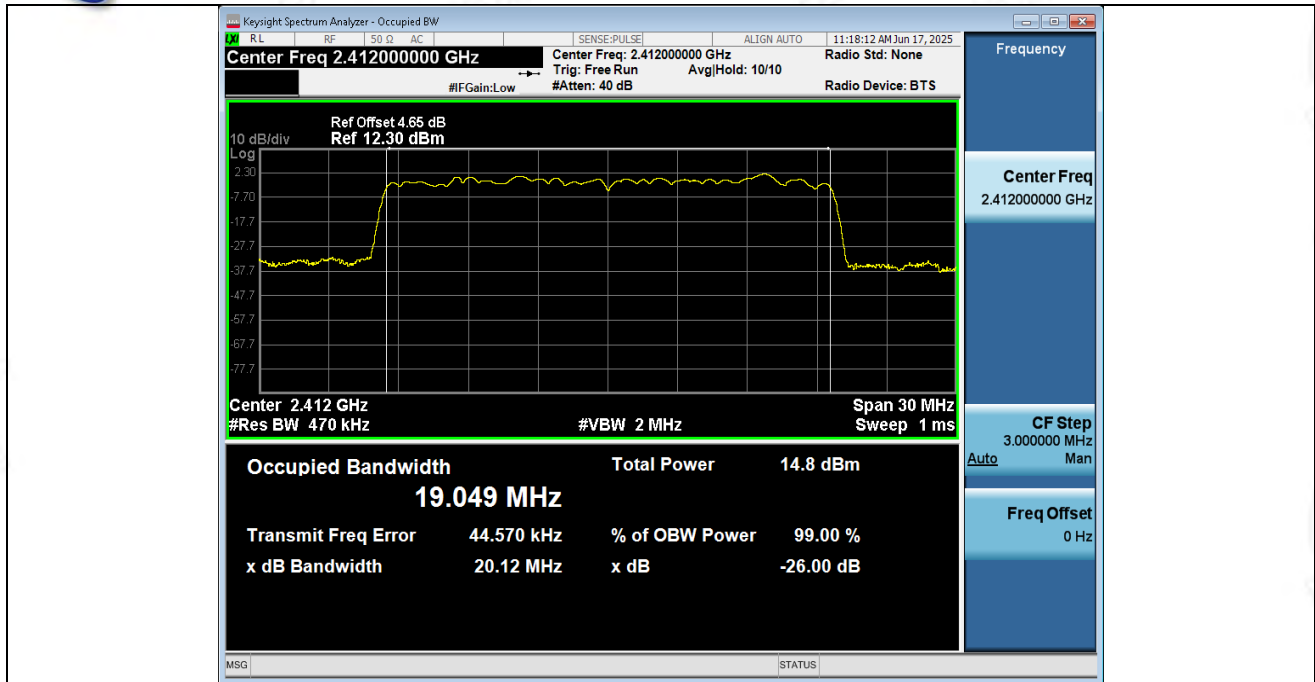


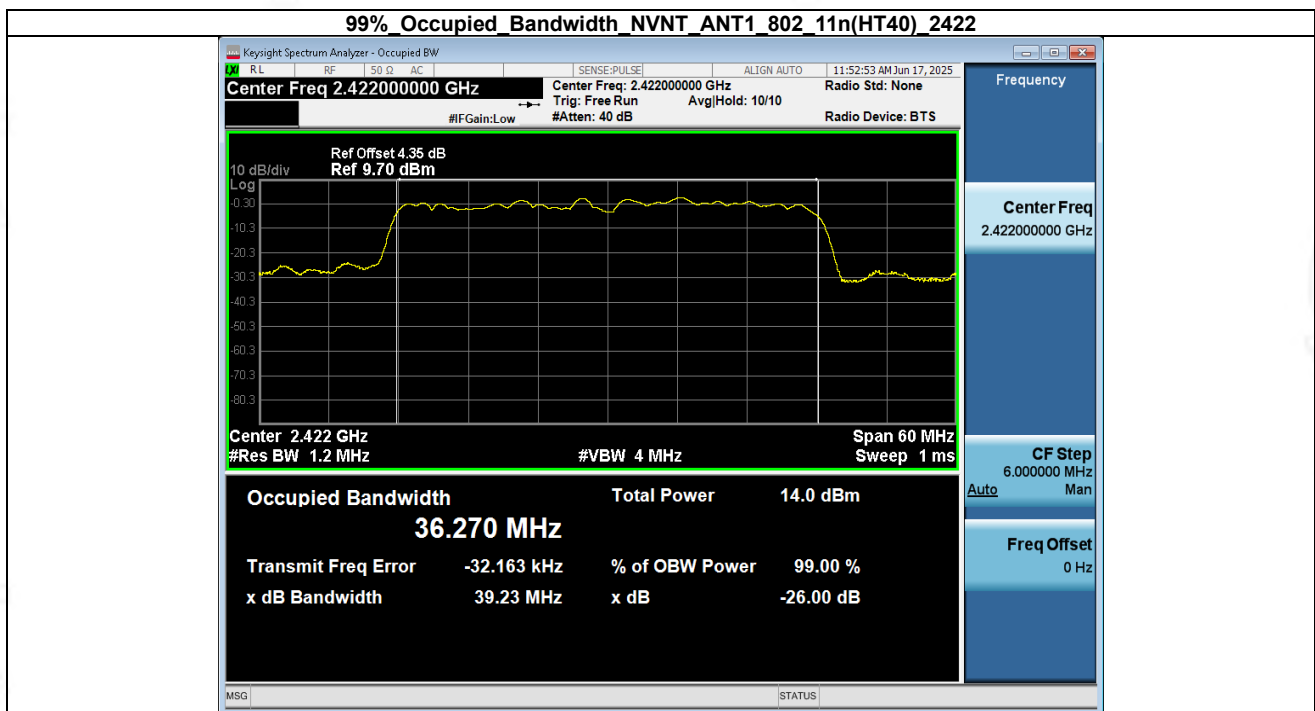
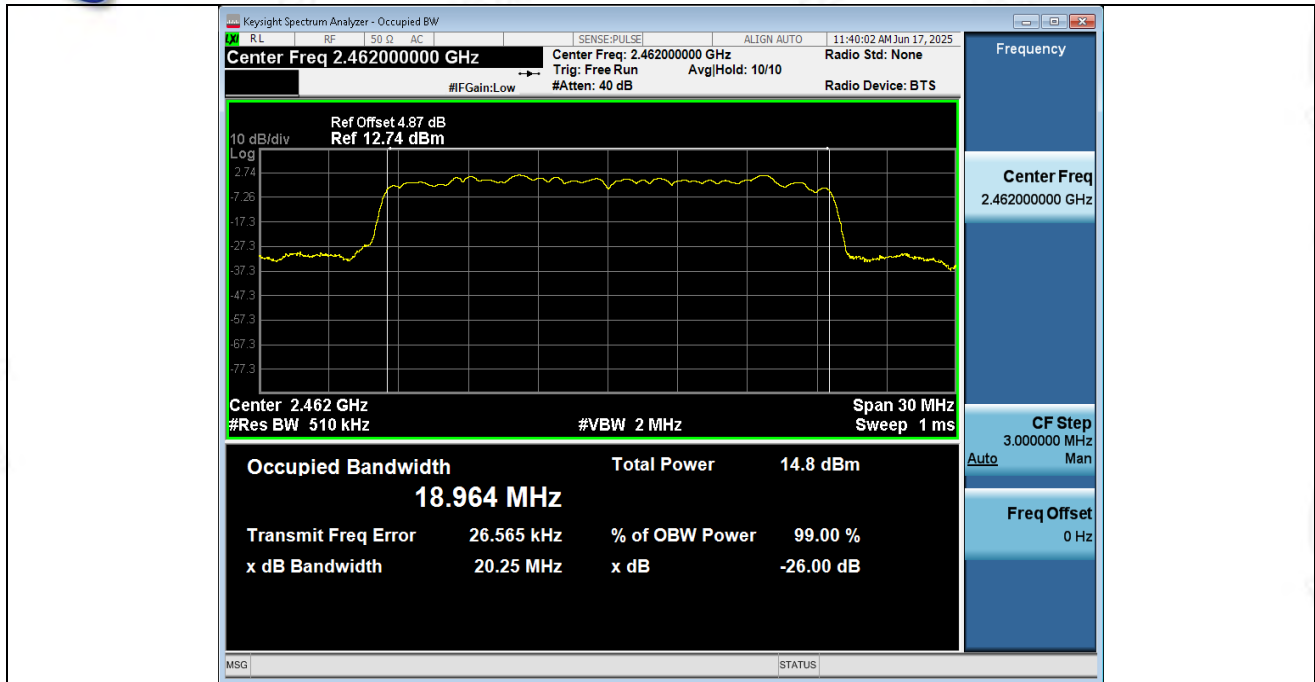


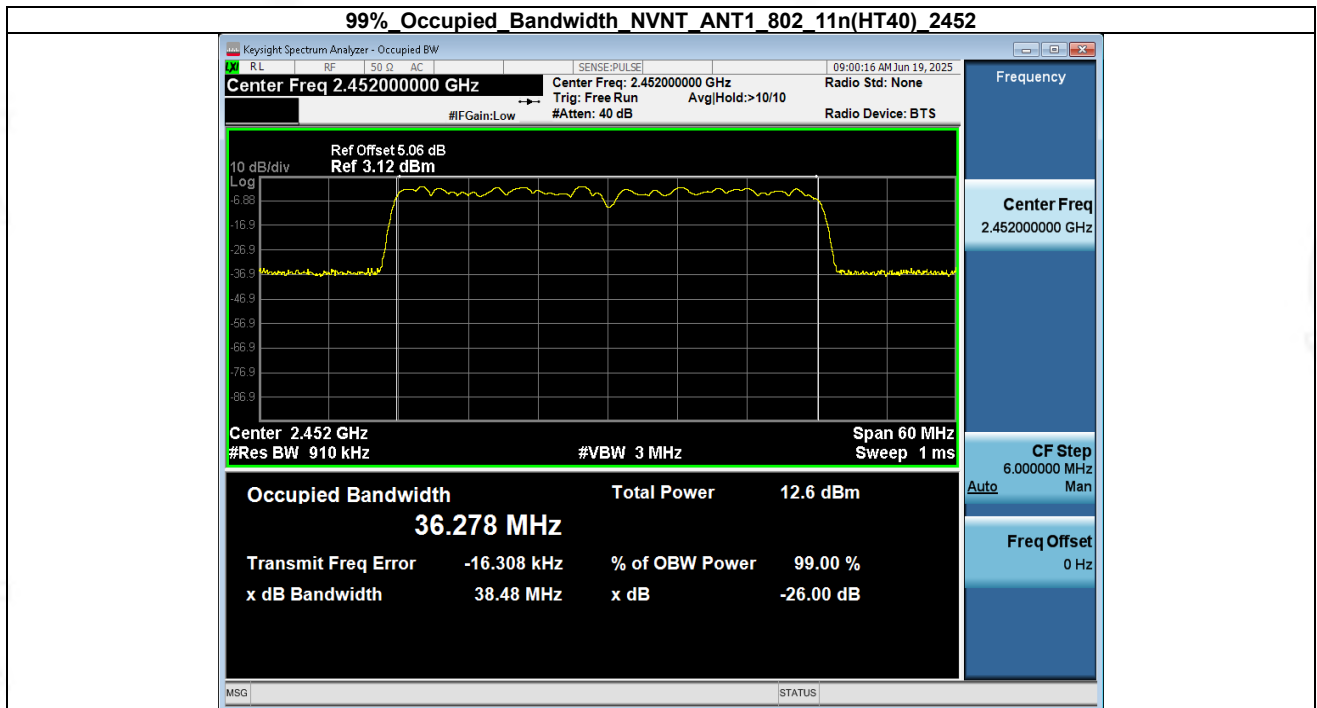
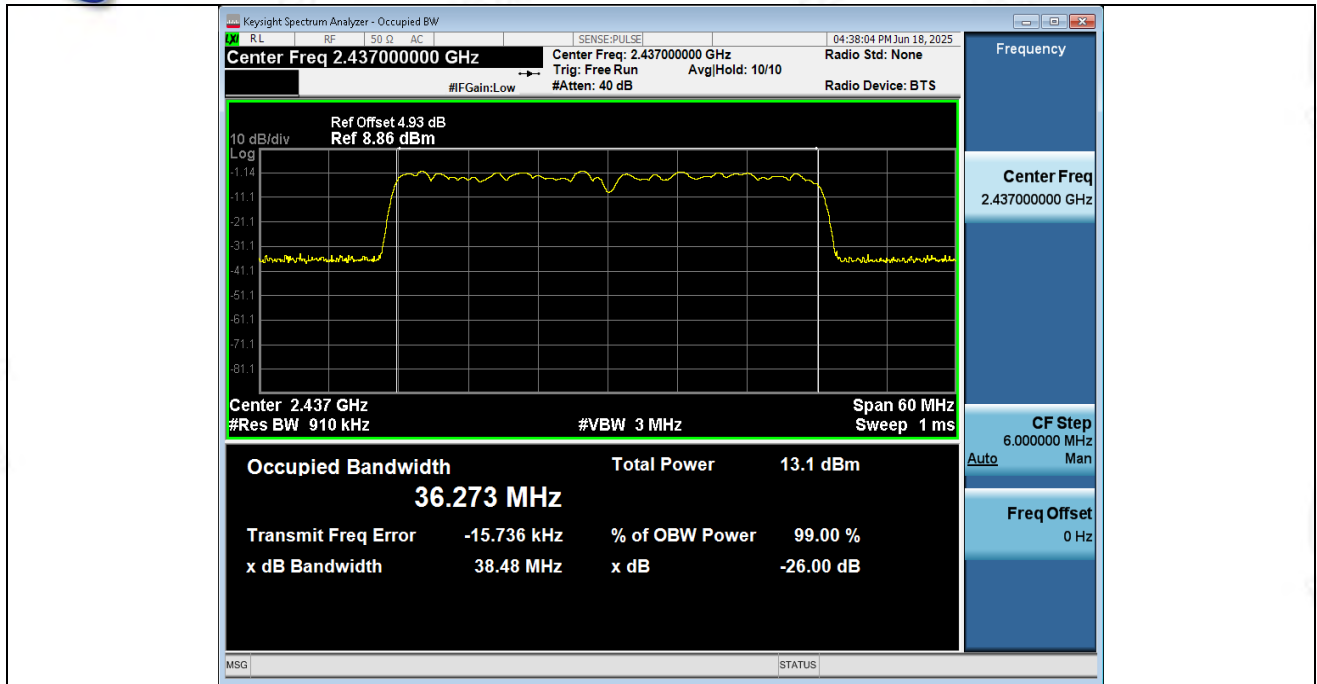


99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE20)_2412



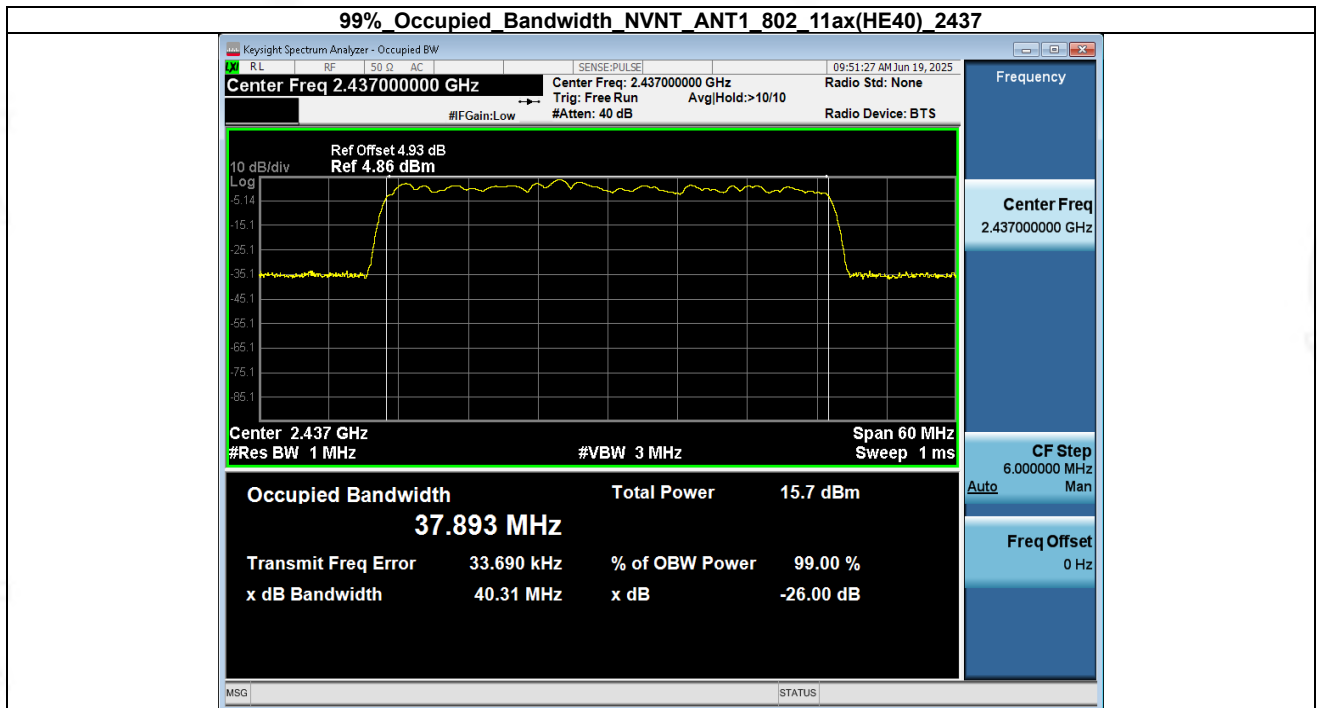
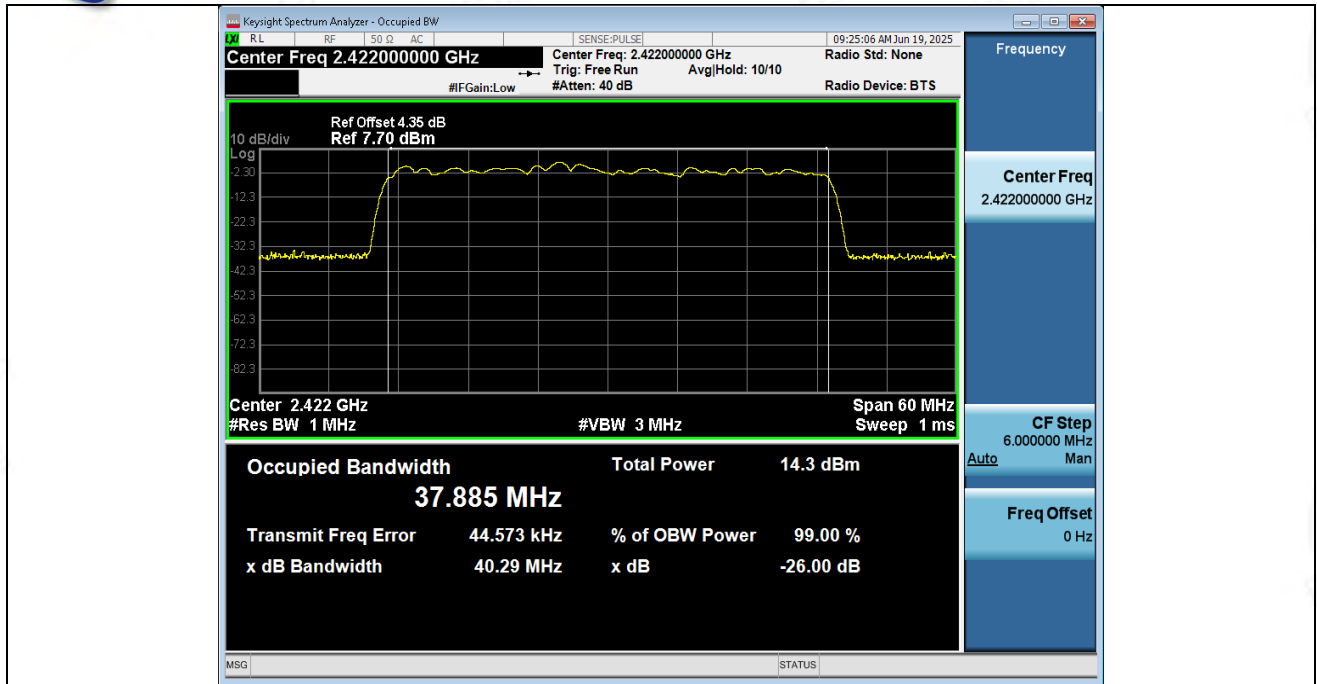


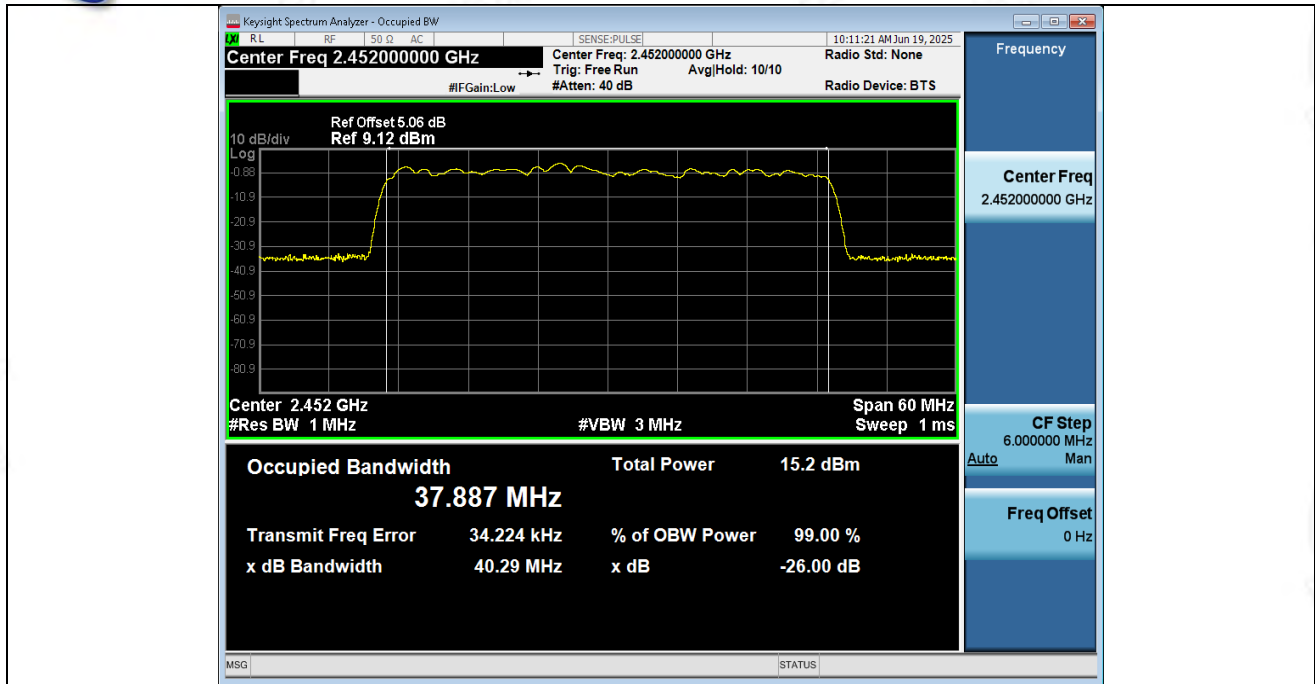




99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



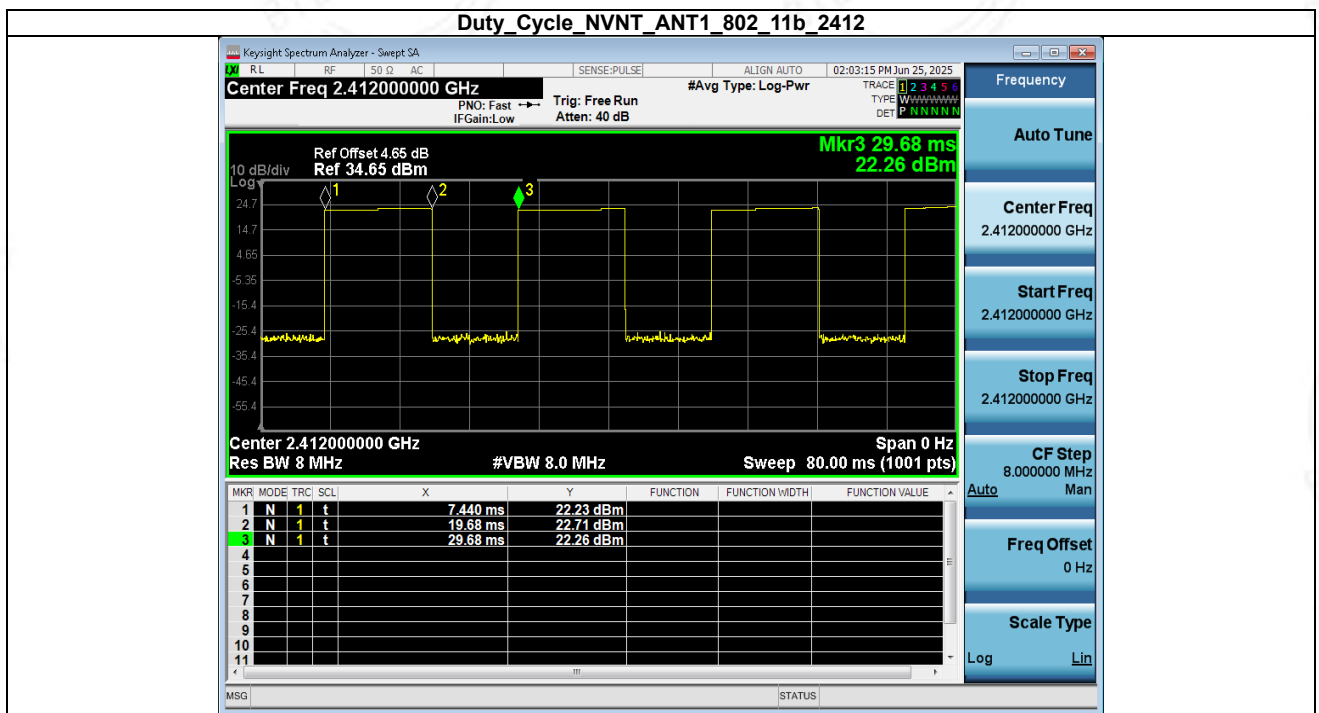




3. Duty Cycle

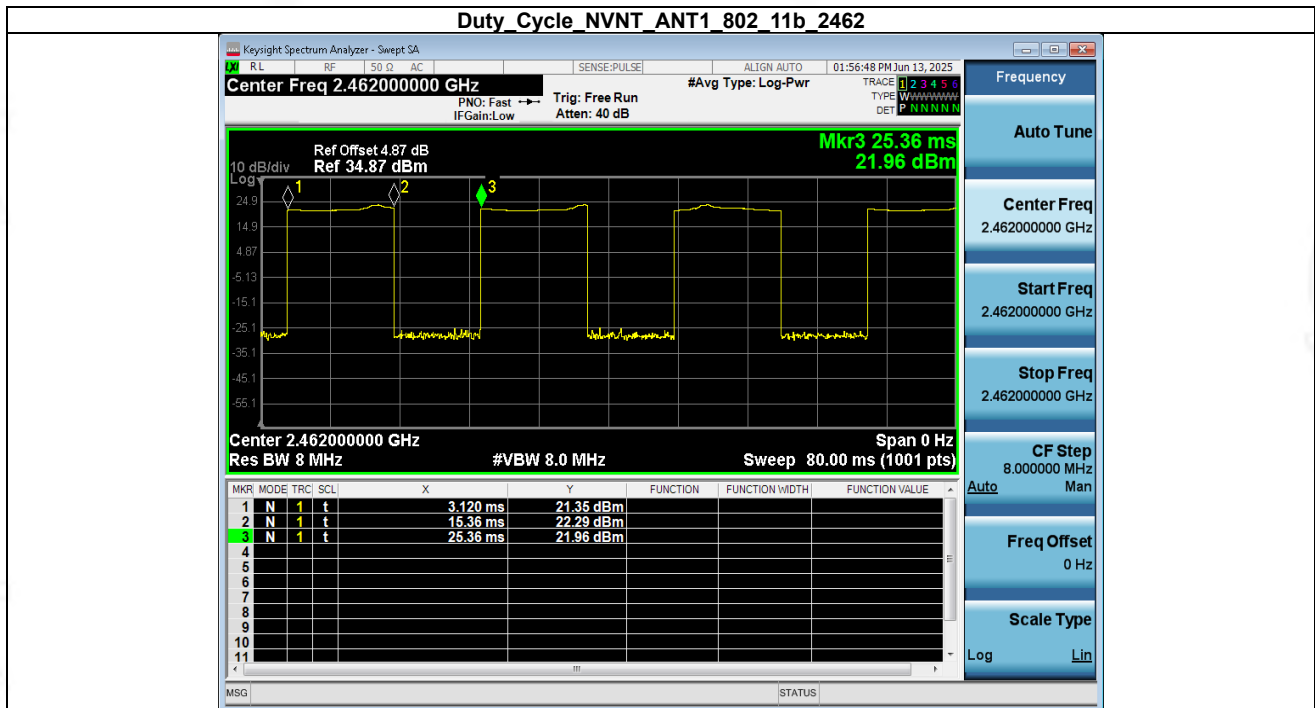
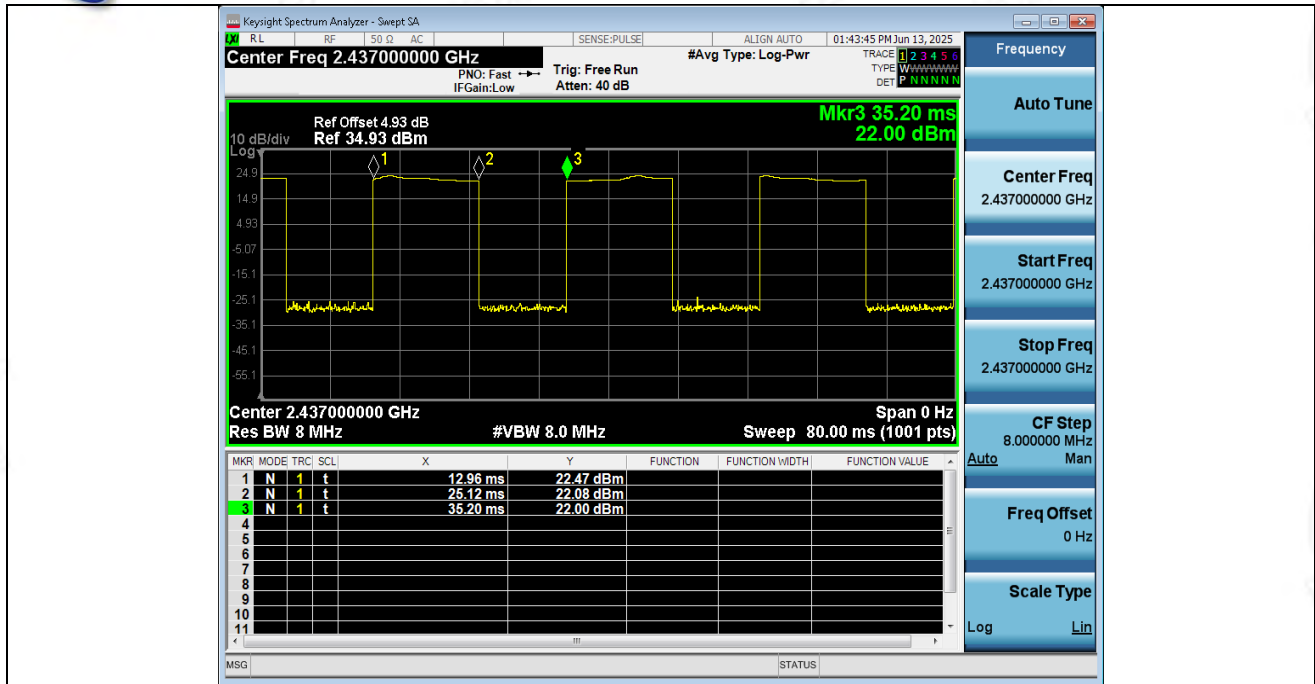
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	55.04	2.59
NVNT	ANT1	802.11b	2437.00	55.04	2.59
NVNT	ANT1	802.11b	2462.00	55.04	2.59
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT1	802.11ax(HE20)	2412.00	100	0.00
NVNT	ANT1	802.11ax(HE20)	2437.00	100	0.00
NVNT	ANT1	802.11ax(HE20)	2462.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00
NVNT	ANT1	802.11ax(HE40)	2422.00	100	0.00
NVNT	ANT1	802.11ax(HE40)	2437.00	100	0.00
NVNT	ANT1	802.11ax(HE40)	2452.00	100	0.00

Duty Cycle NVNT ANT1 802_11b 2412



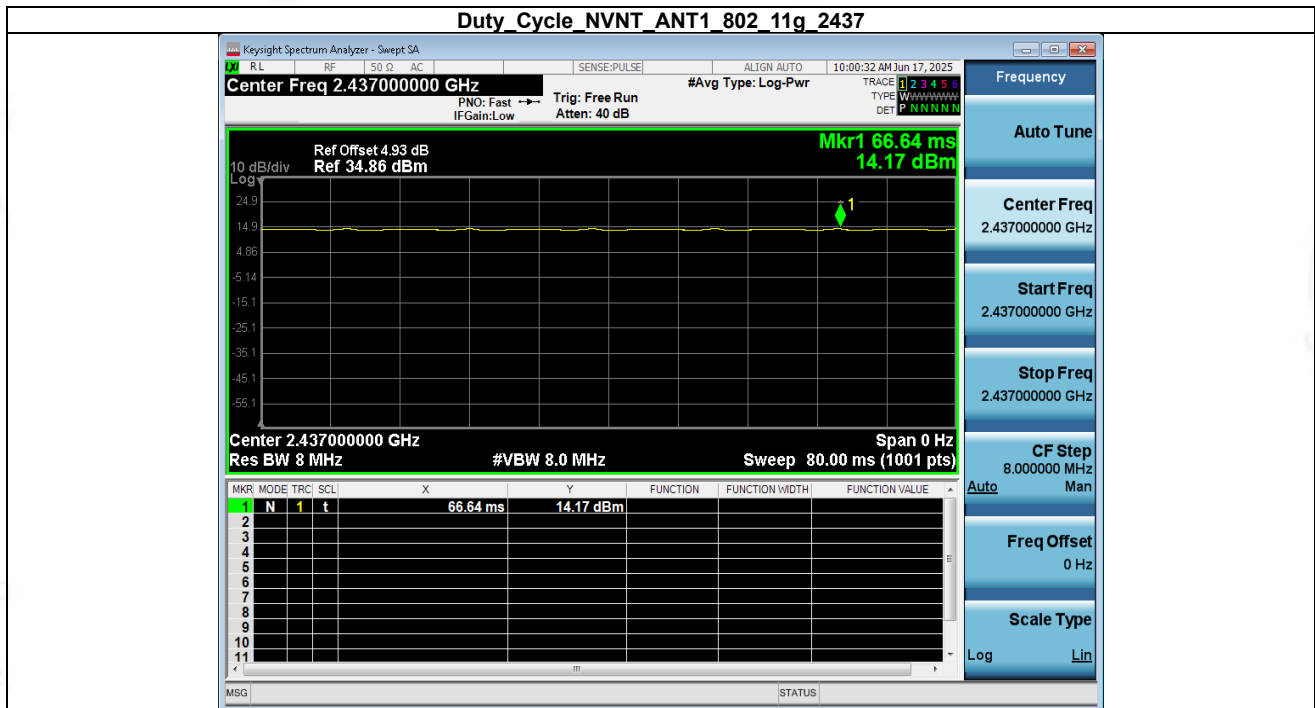
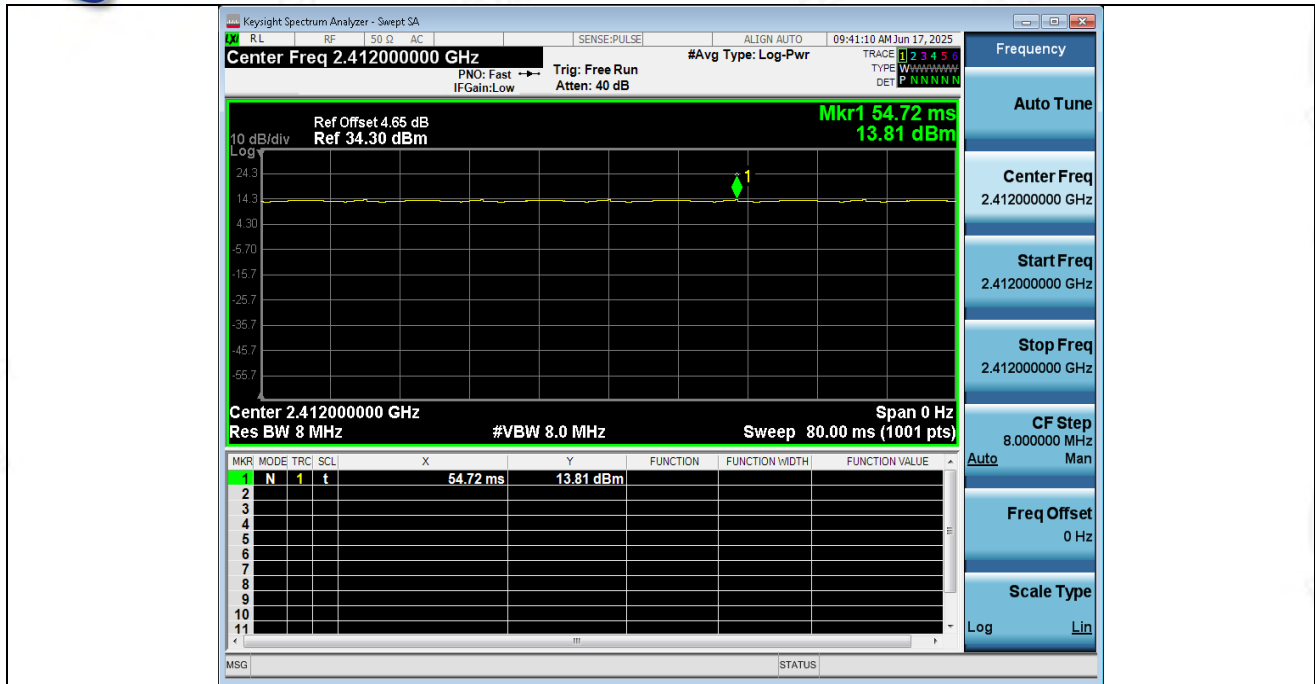
Duty Cycle NVNT ANT1 802_11b 2437





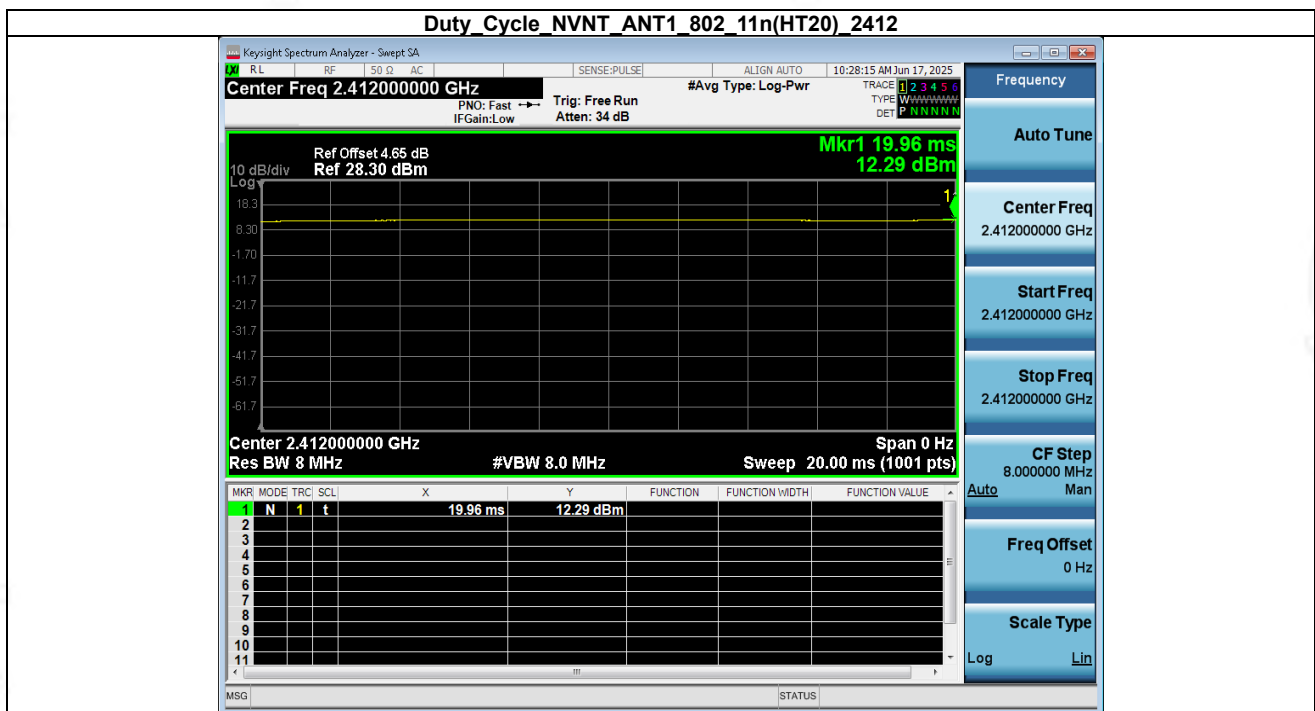
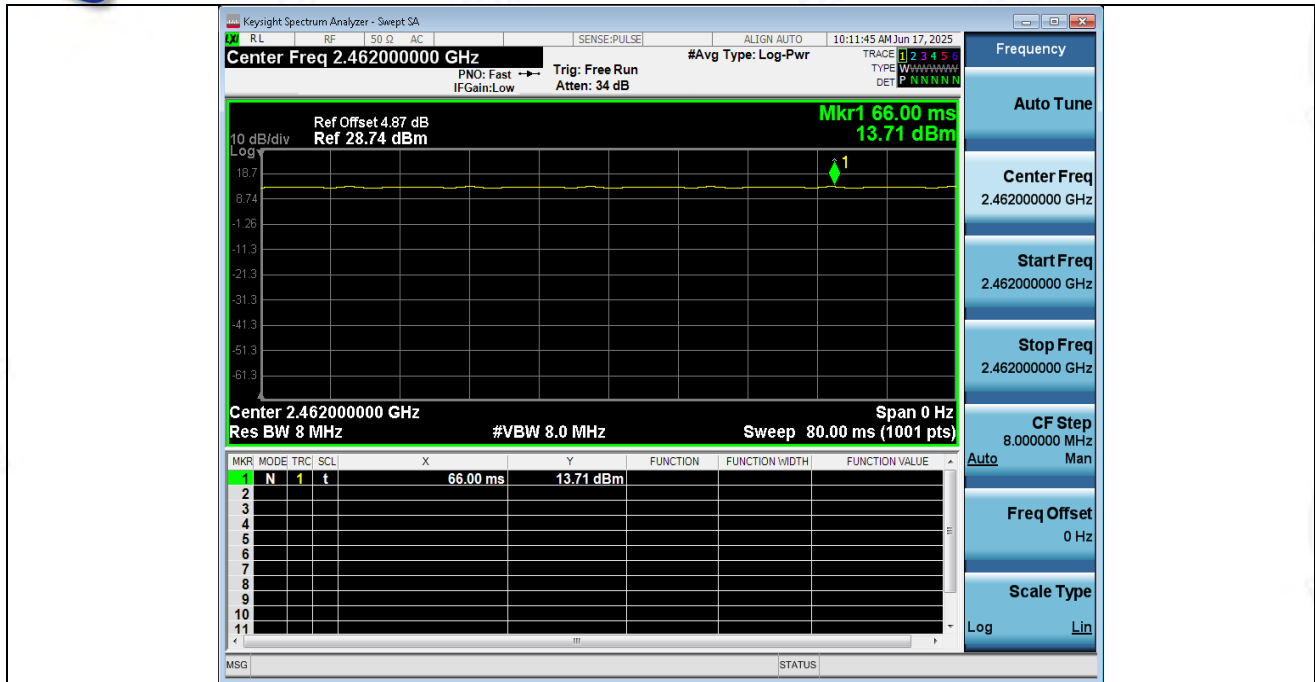
Duty Cycle NVNT_ANT1_802_11g_2412





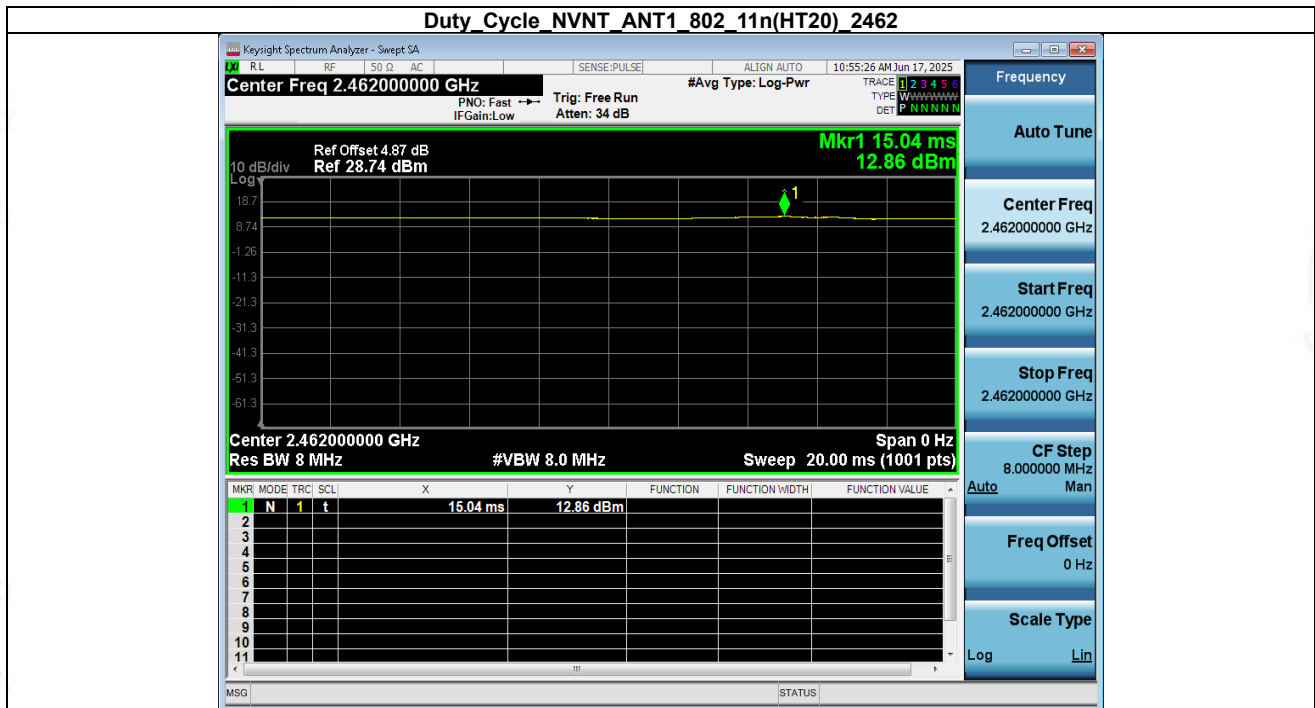
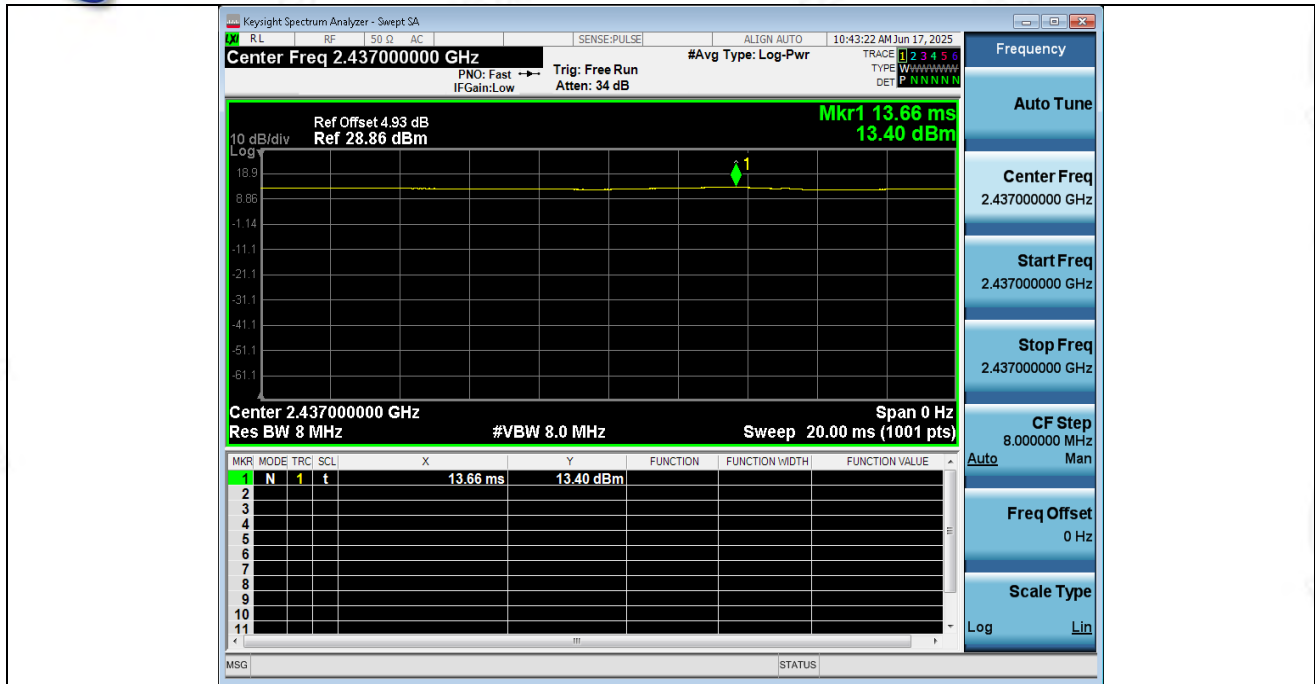
Duty_Cycle_NVNT_ANT1_802_11g_2462





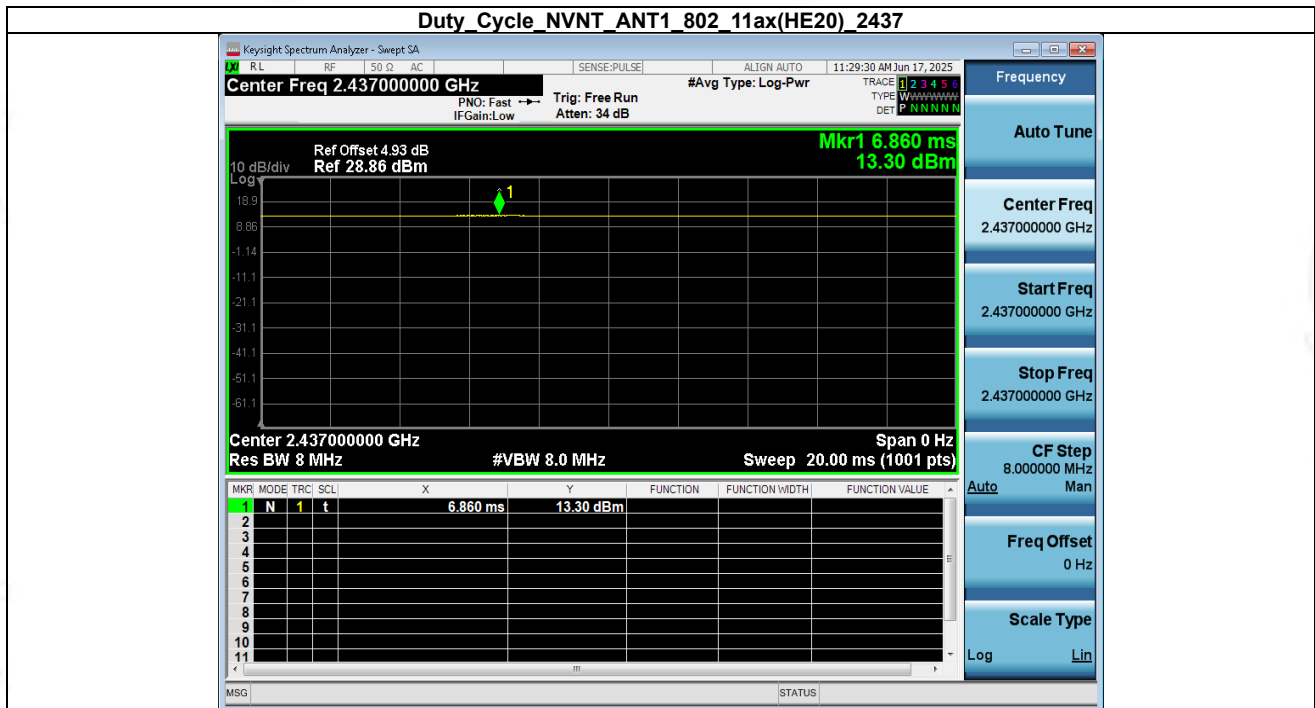
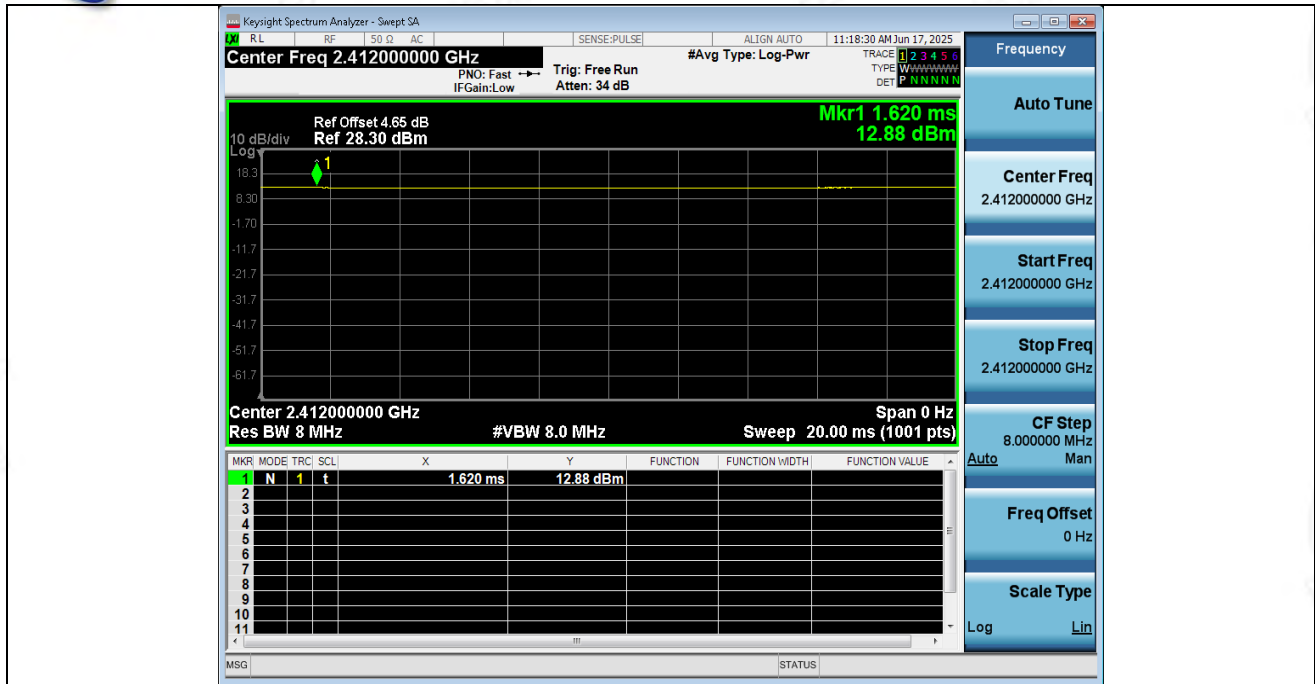
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437





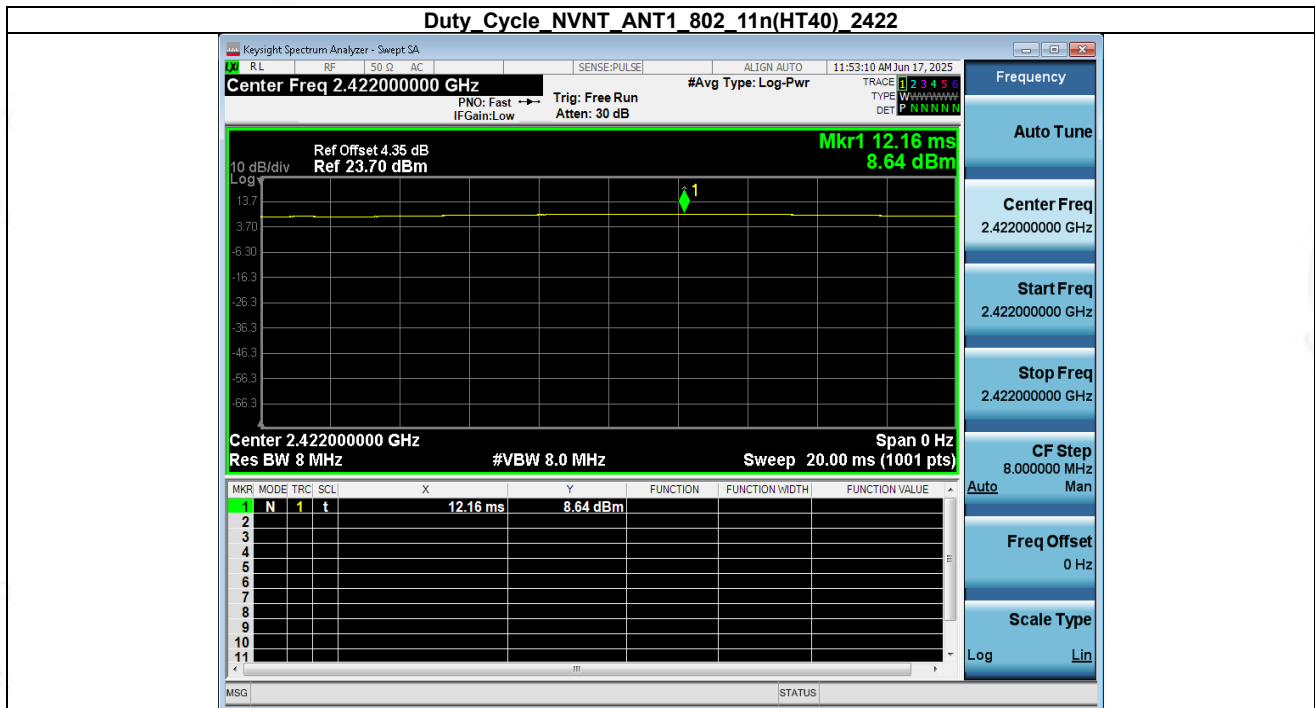
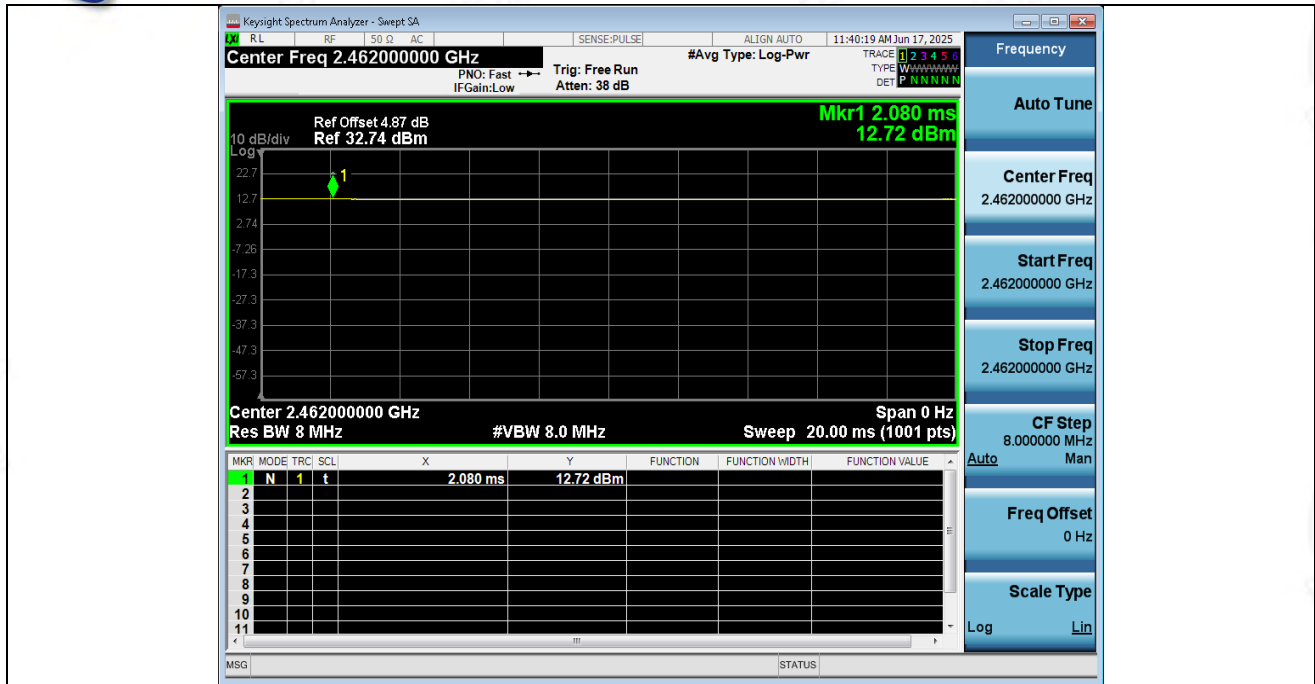
Duty Cycle NVNT_ANT1_802_11ax(HE20)_2412





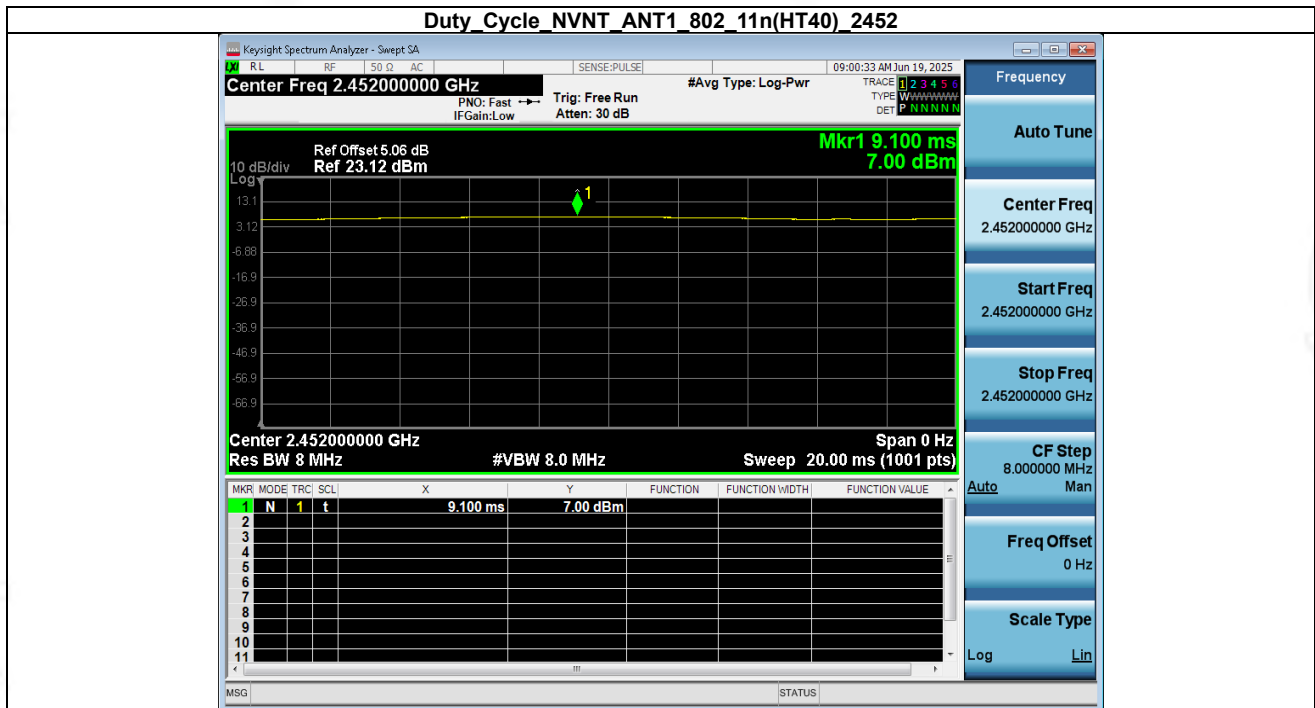
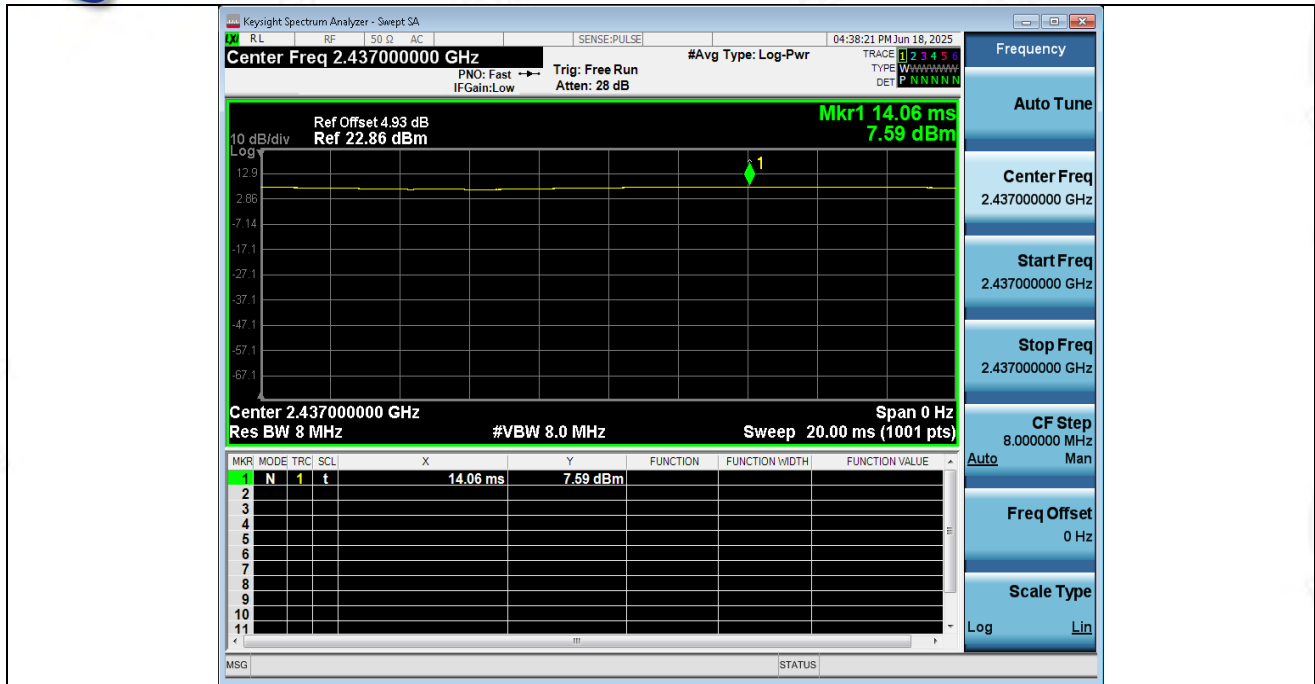
Duty Cycle_NVNT_ANT1_802_11ax(HE20)_2462





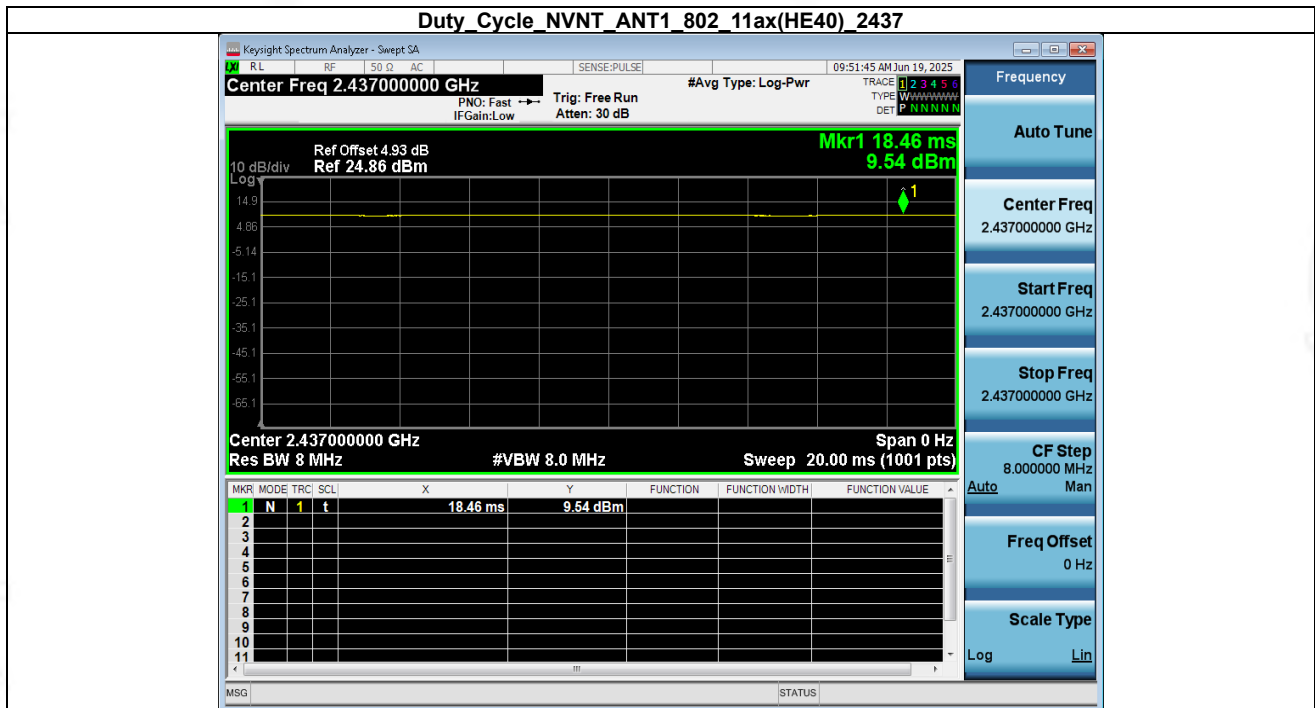
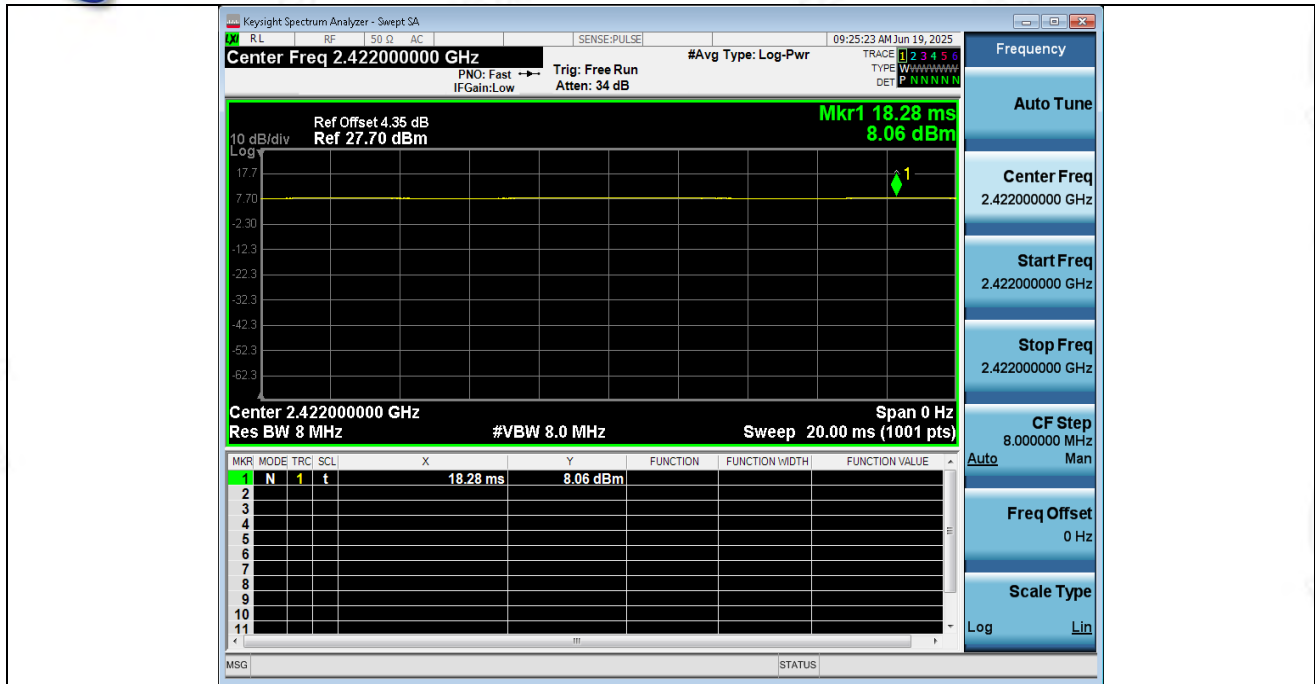
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437





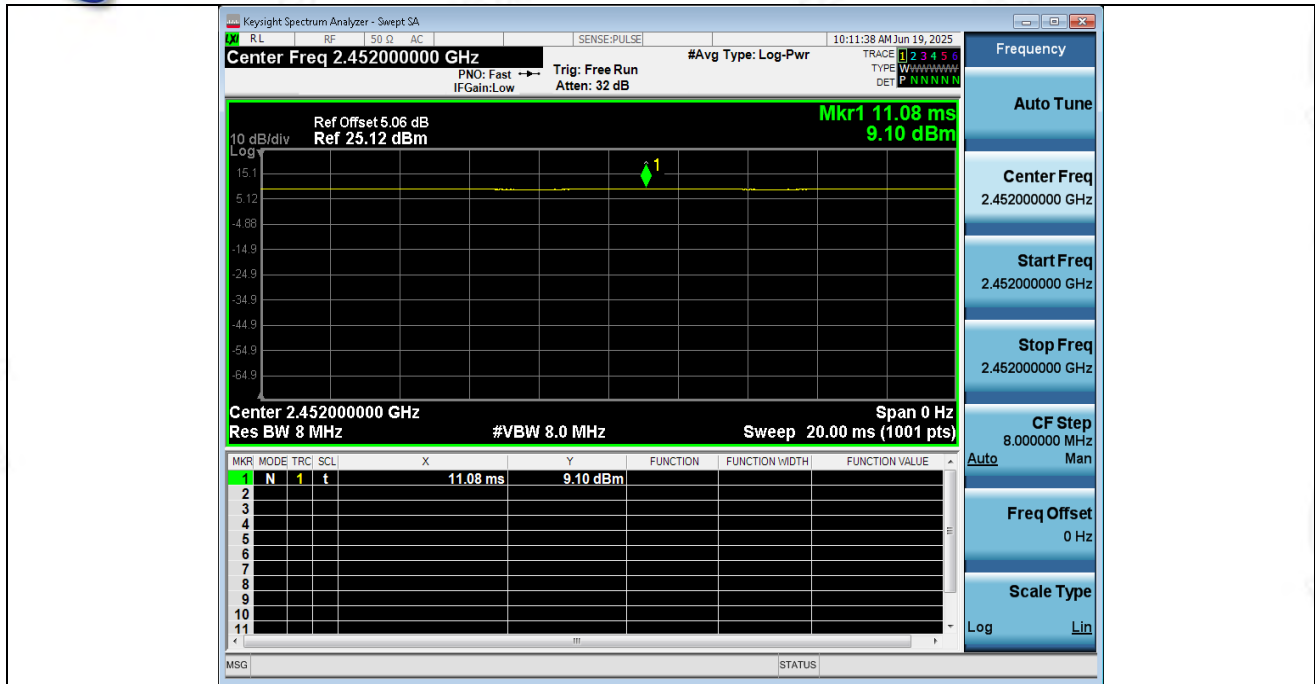
Duty Cycle NVNT_ANT1_802_11ax(HE40)_2422





Duty Cycle_NVNT_ANT1_802_11ax(HE40)_2452





4. MAX. Output Power

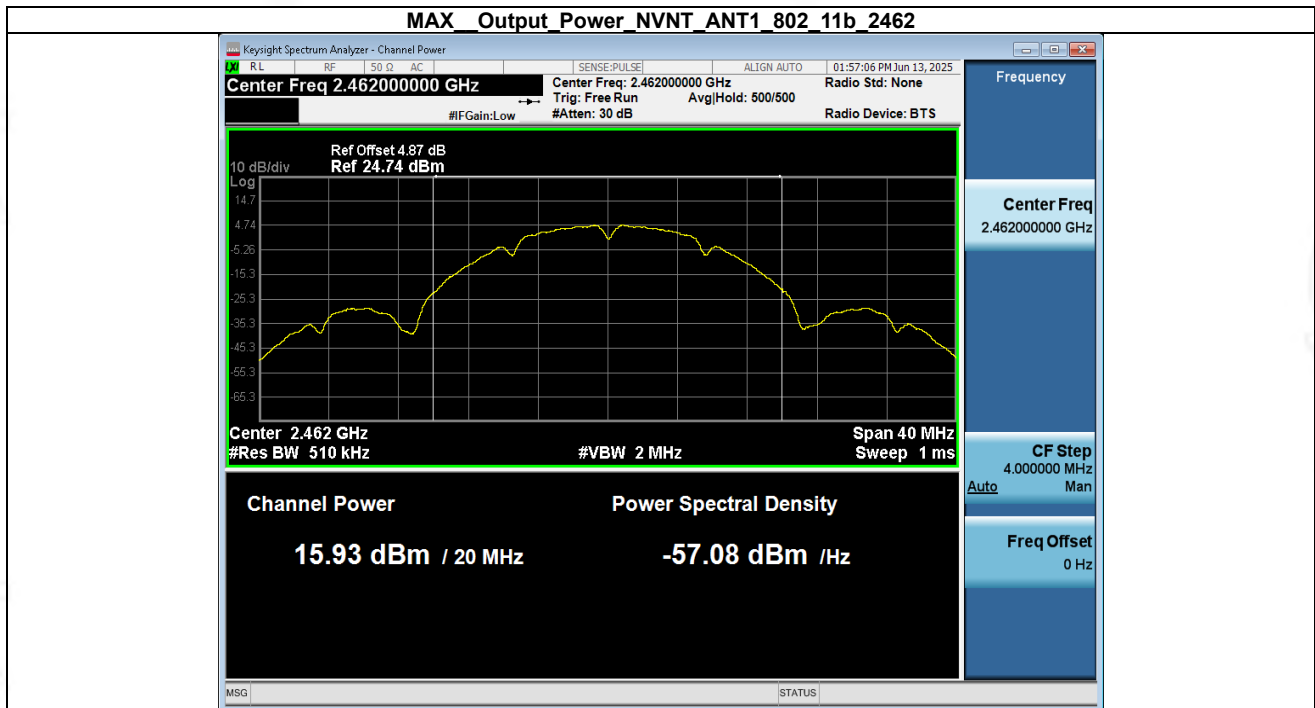
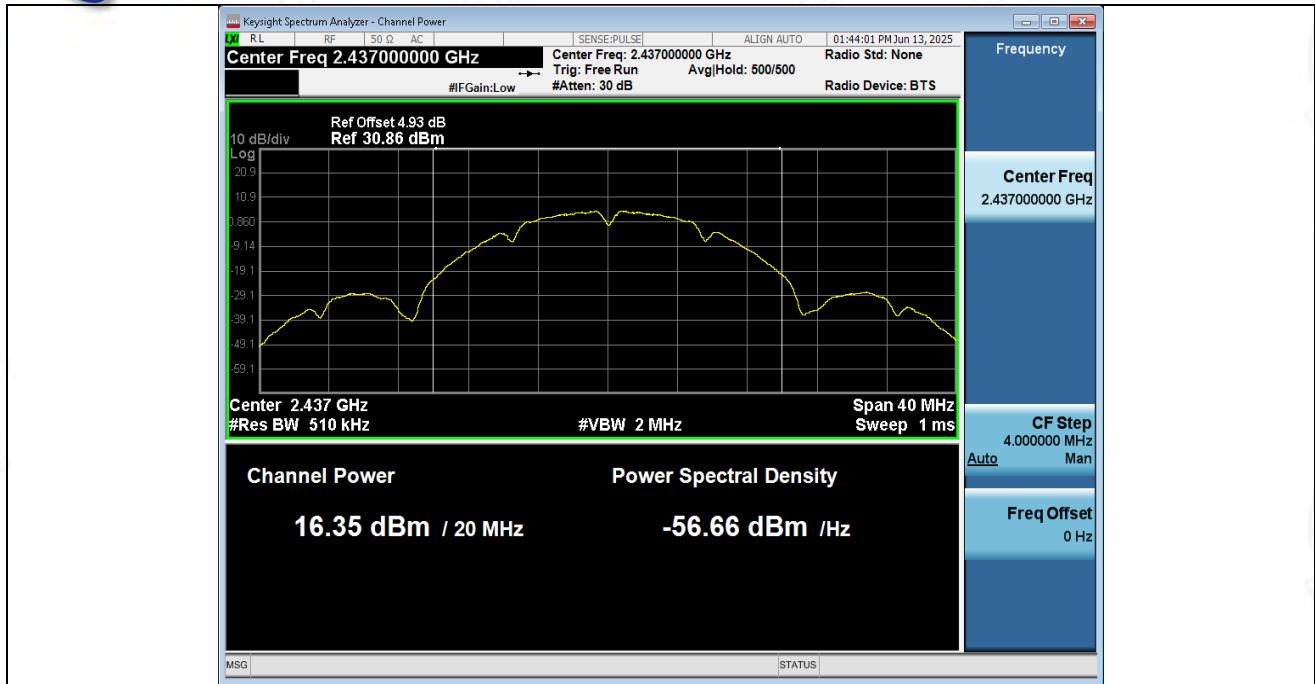
Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	16.72	2.59	19.31	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	16.35	2.59	18.94	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	15.93	2.59	18.52	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	8.97	0.00	8.97	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	9.28	0.00	9.28	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	9.05	0.00	9.05	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	8.93	0.00	8.93	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	9.47	0.00	9.47	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	9.03	0.00	9.03	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	RMS	8.86	0.00	8.86	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	RMS	9.07	0.00	9.07	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	RMS	8.83	0.00	8.83	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	8.86	0.00	8.86	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	8.40	0.00	8.40	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	7.89	0.00	7.89	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	RMS	7.79	0.00	7.79	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	RMS	9.18	0.00	9.18	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	RMS	8.80	0.00	8.80	30	Pass

MAX Output Power NVNT ANT1 802_11b 2412



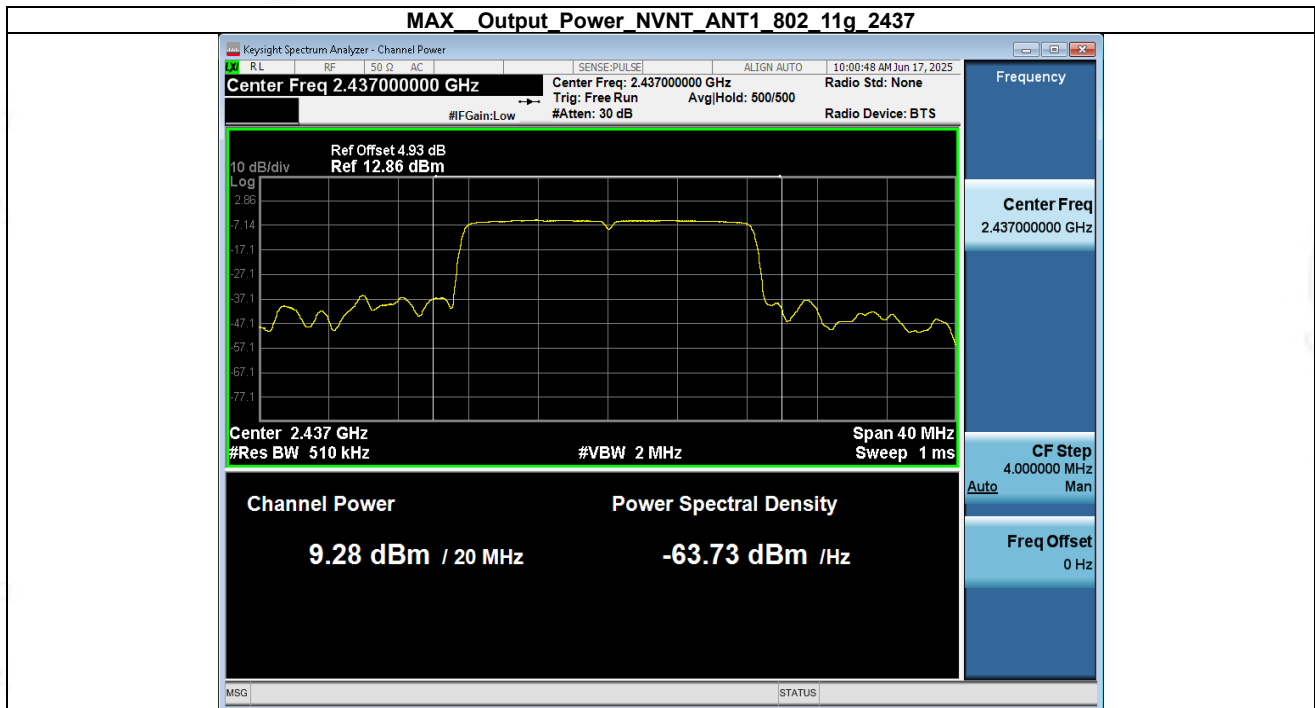
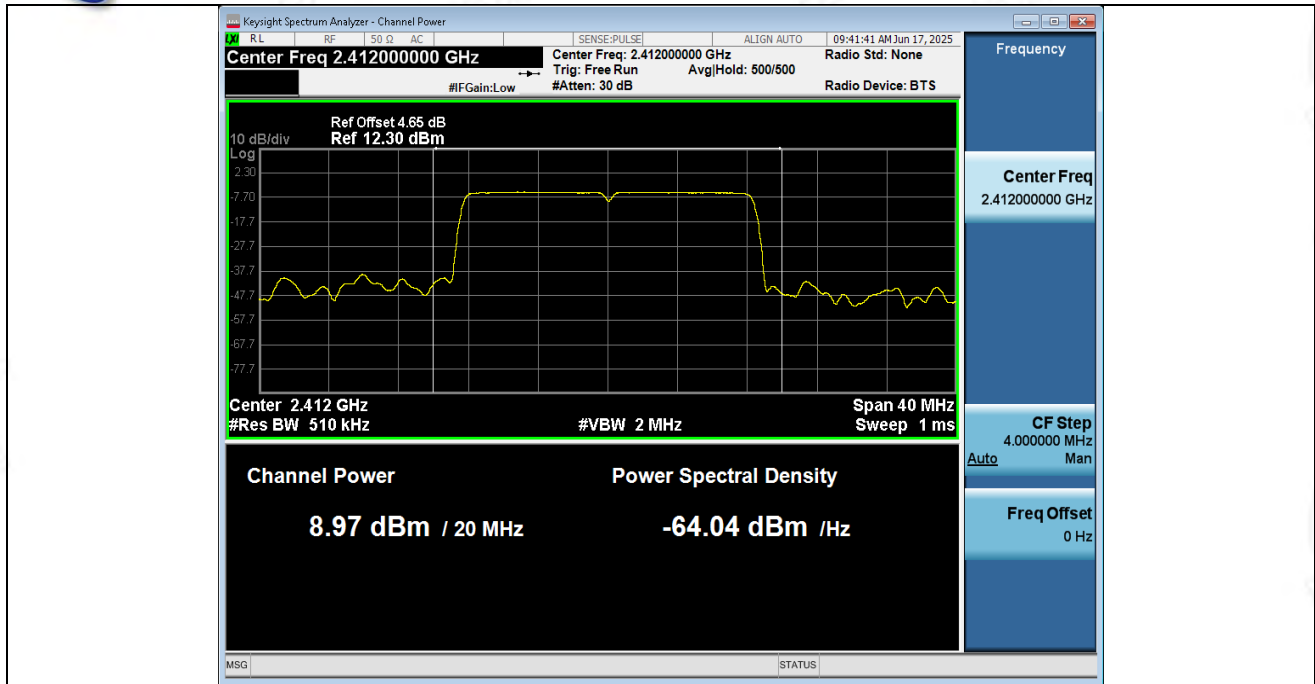
MAX Output Power NVNT ANT1 802_11b 2437

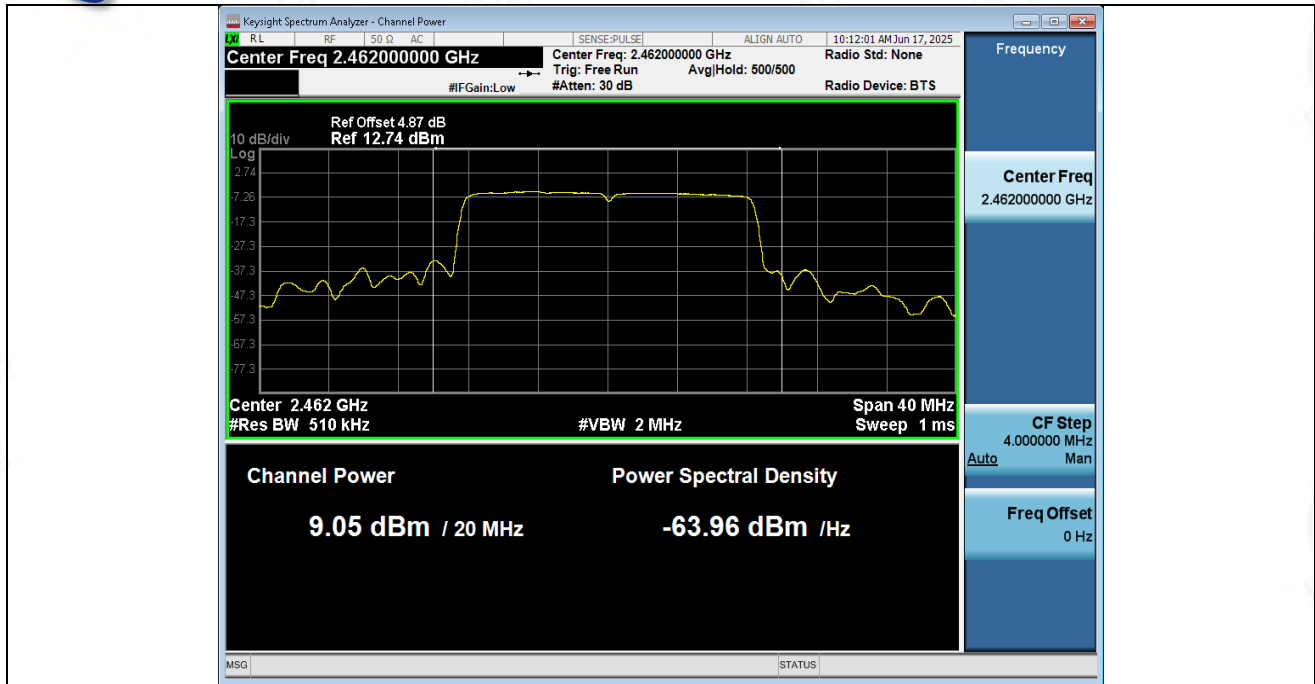




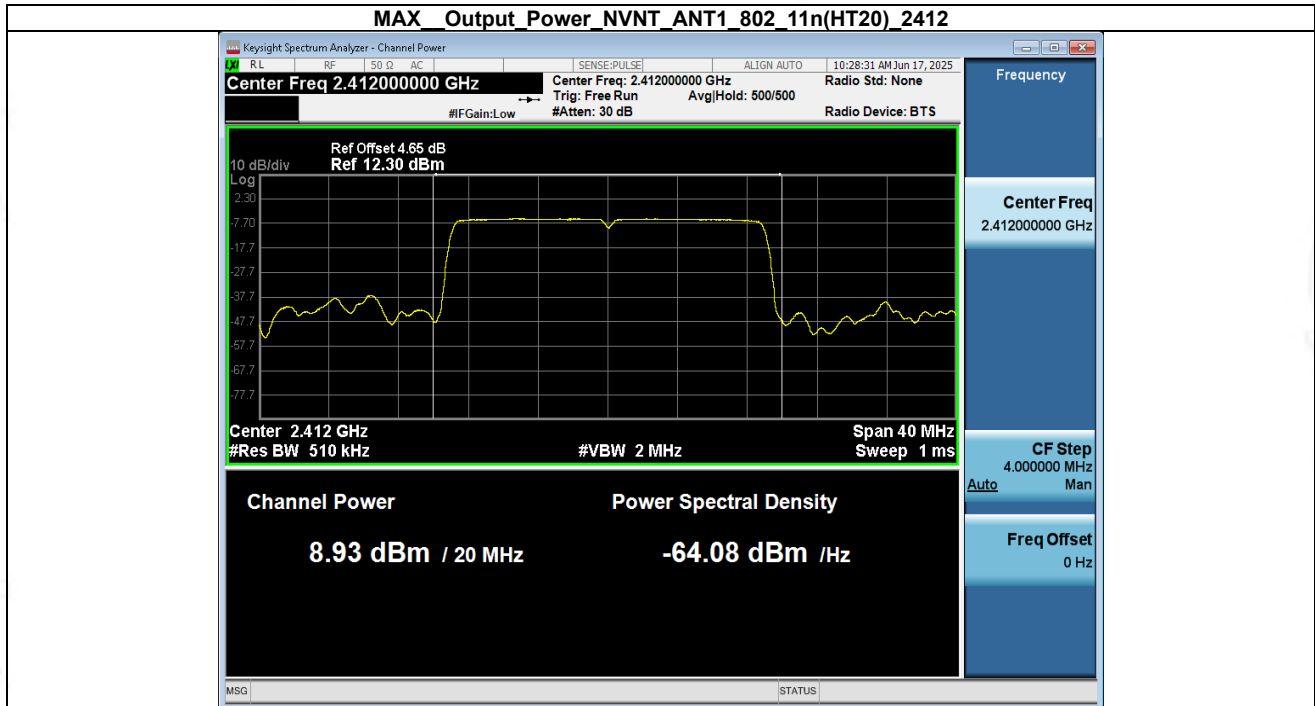
MAX Output Power NVNT_ANT1_802_11g_2412





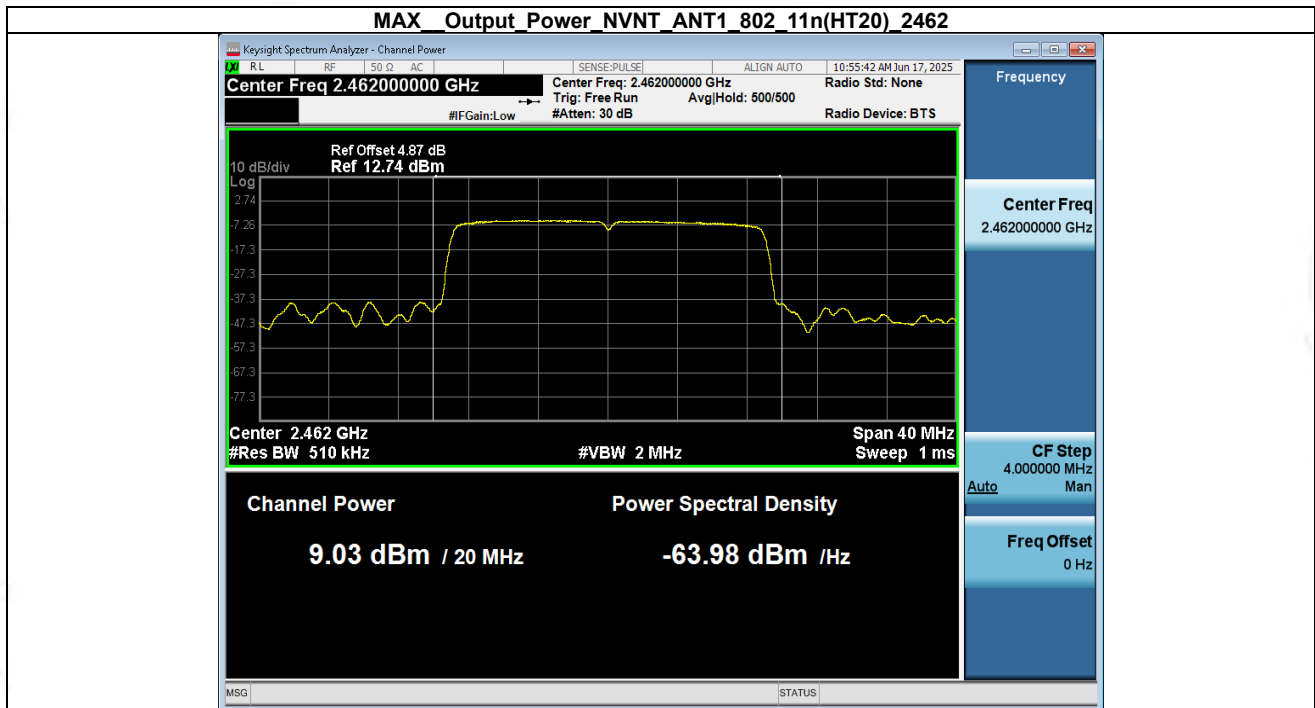
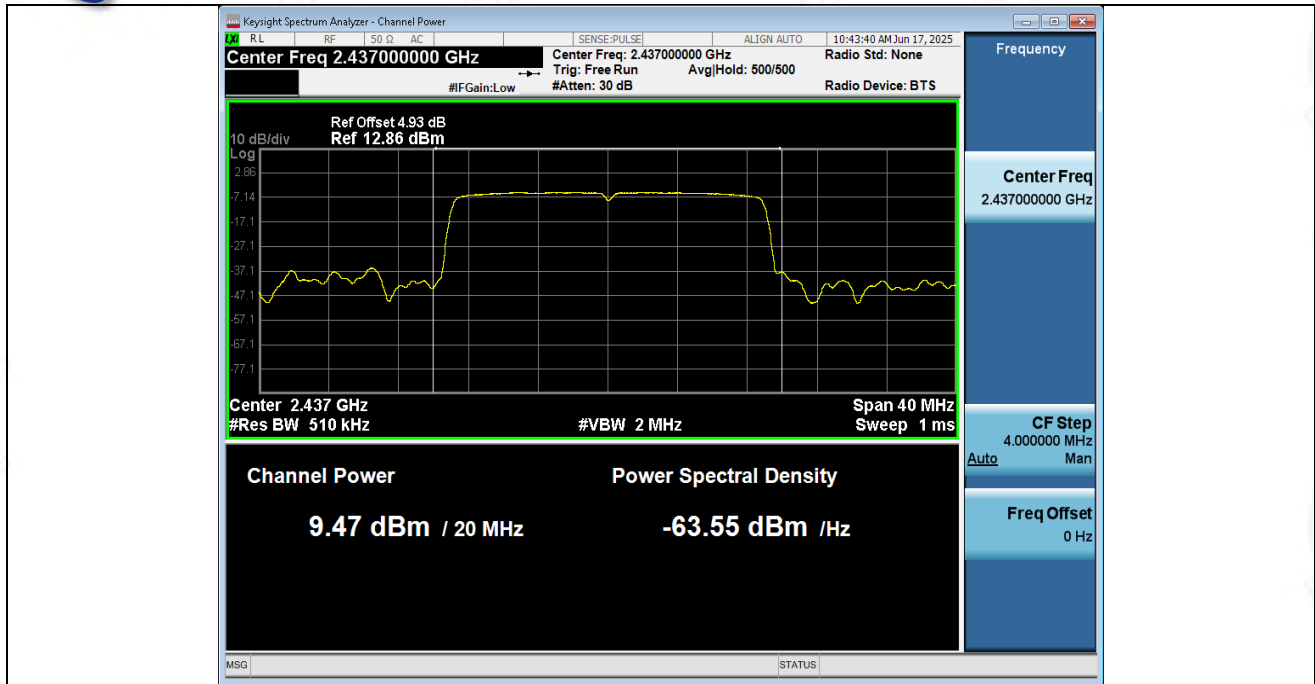


MAX Output Power NVNT_ANT1_802_11n(HT20)_2412



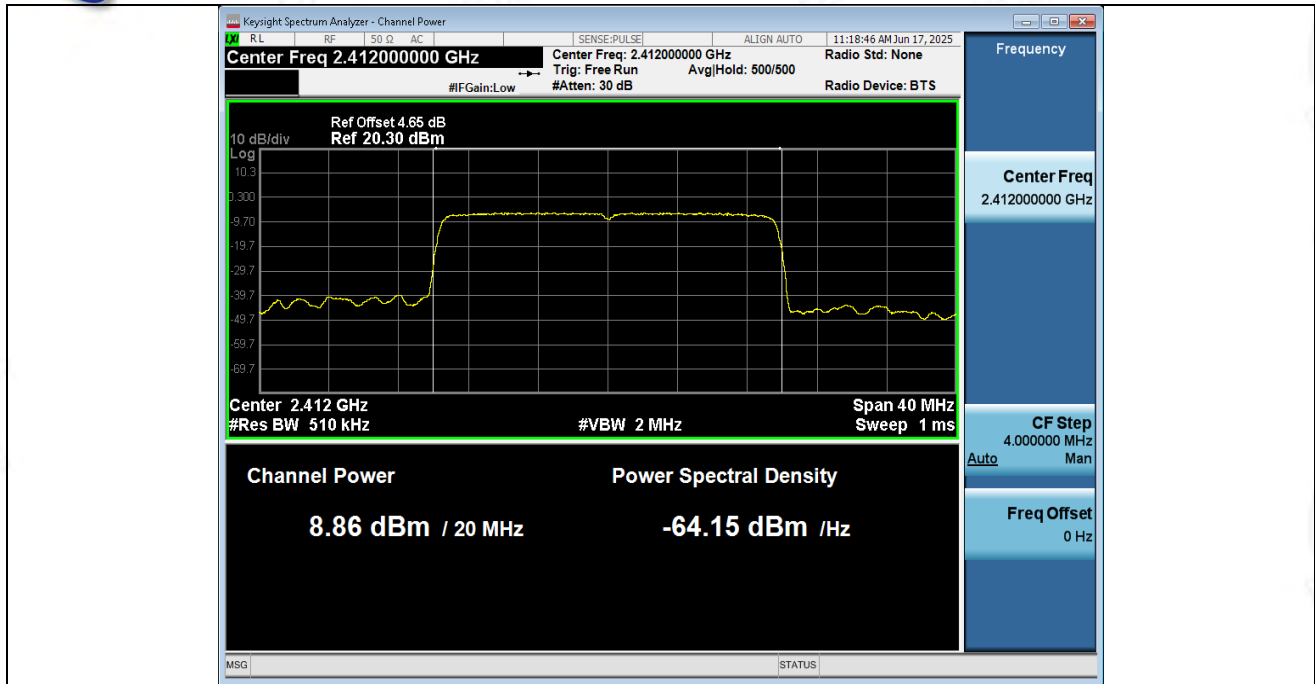
MAX Output Power NVNT_ANT1_802_11n(HT20)_2437



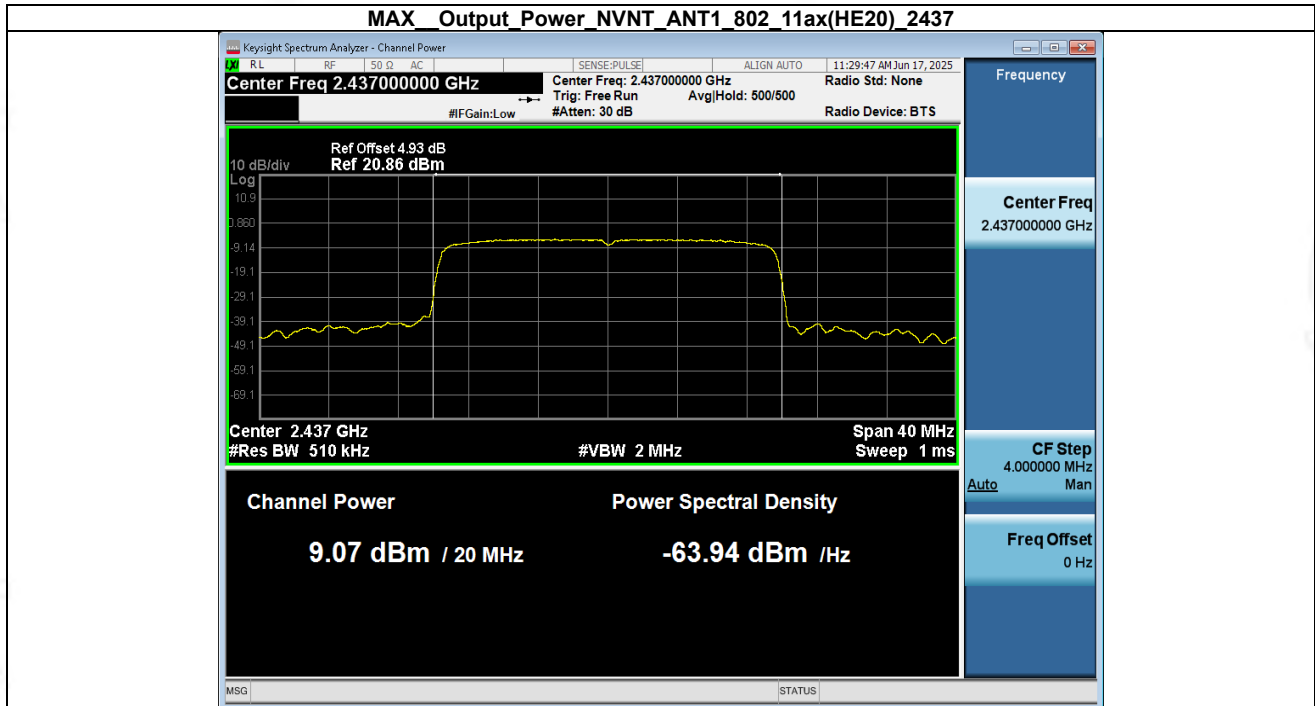


MAX Output Power_NVNT_ANT1_802_11ax(HE20)_2412



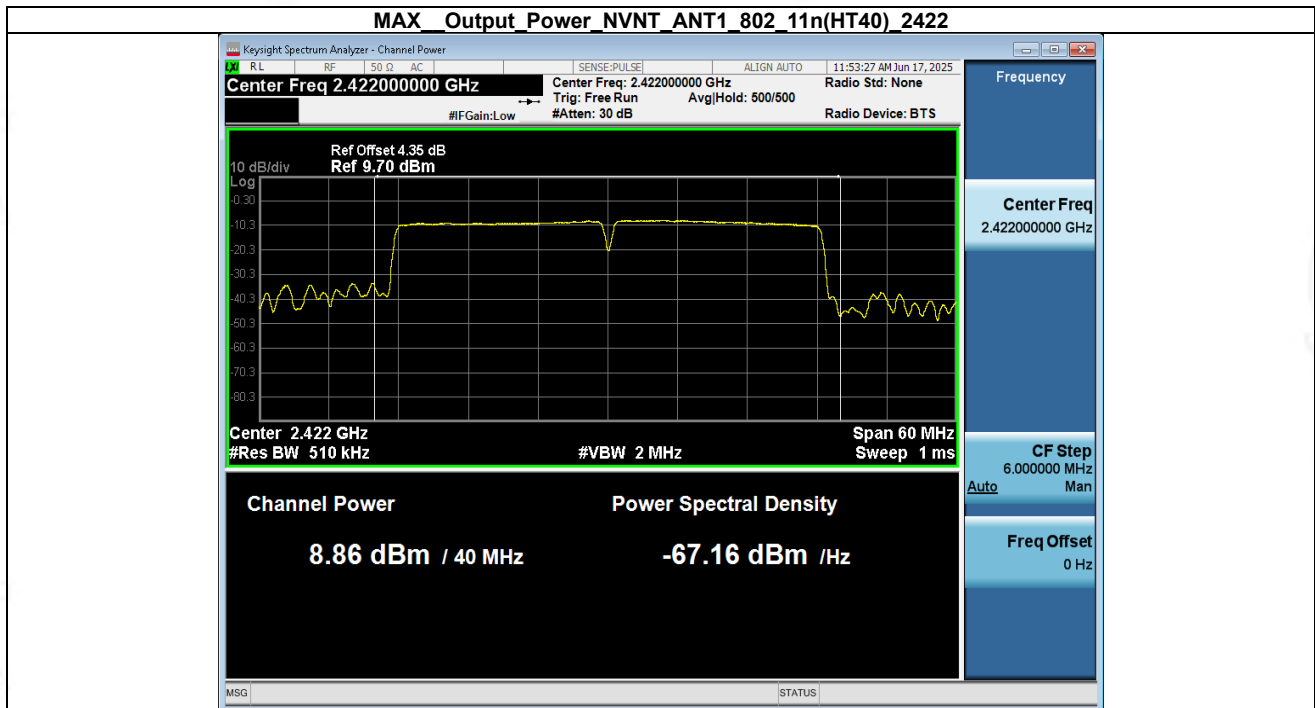
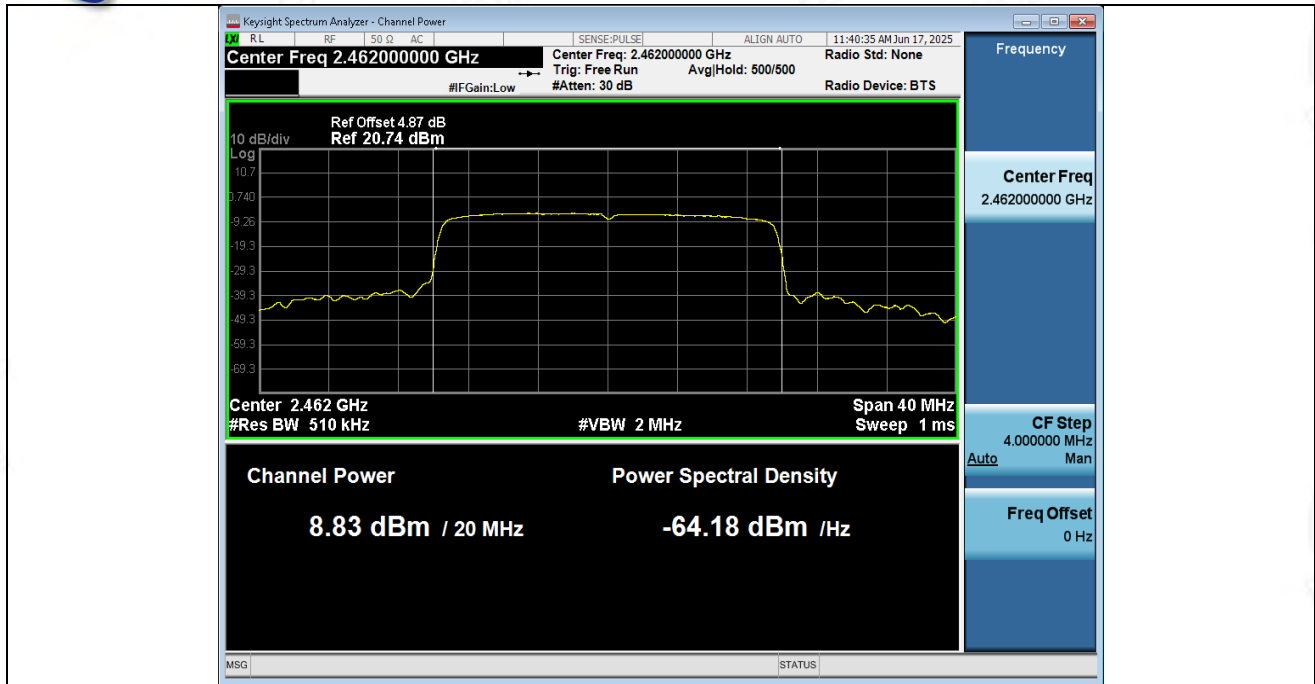


MAX Output Power_NVNT_ANT1_802_11ax(HE20)_2437



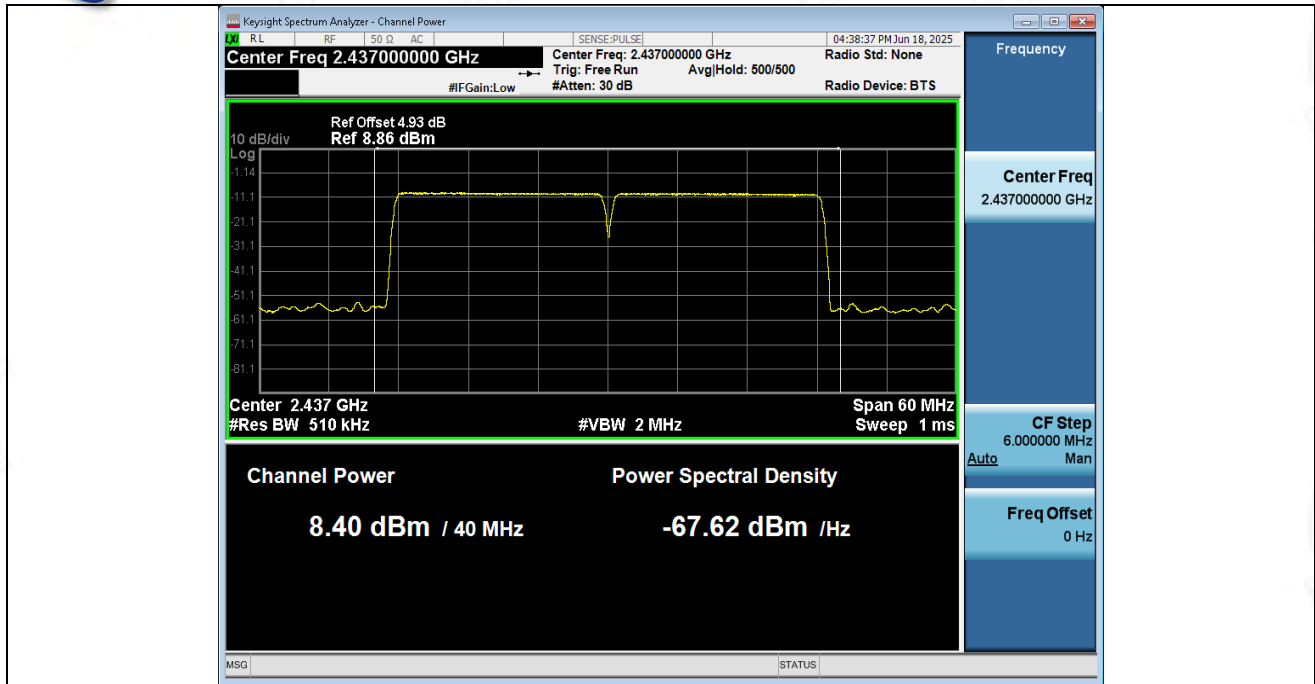
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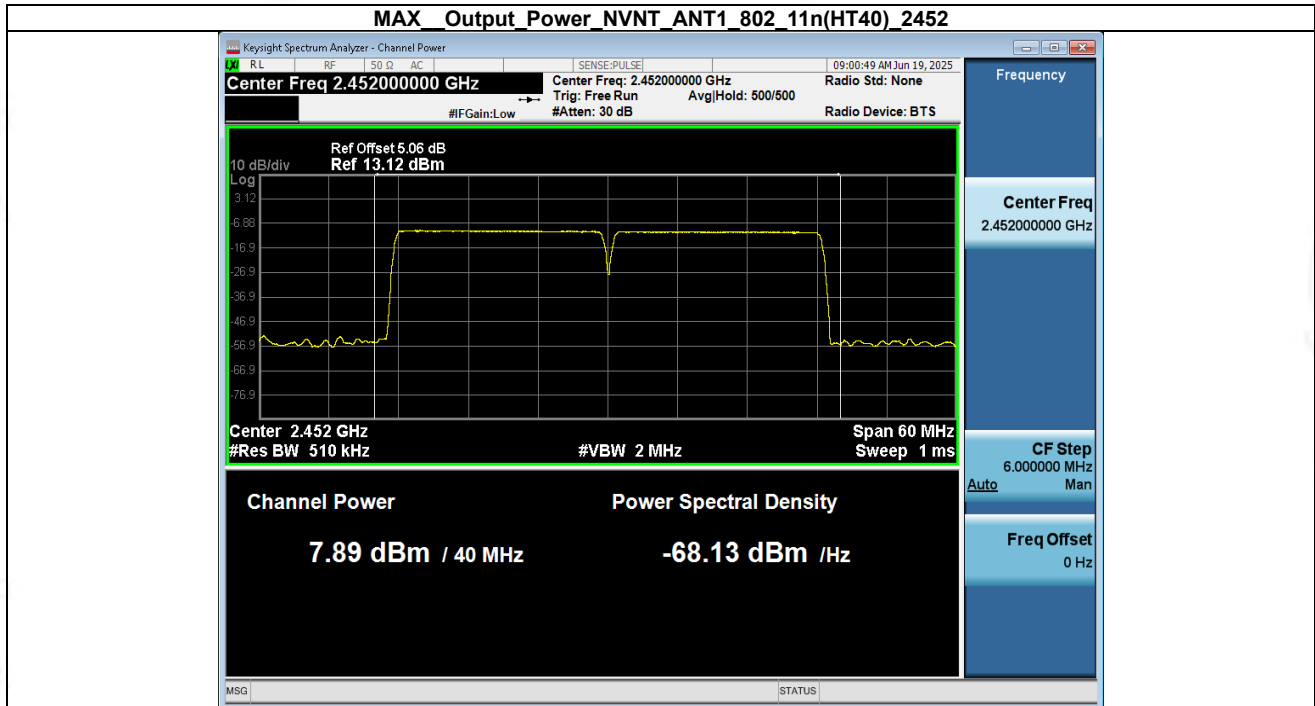


MAX Output Power NVNT_ANT1_802_11n(HT40)_2437





MAX Output Power_NVNT_ANT1_802_11n(HT40)_2452



MAX Output Power_NVNT_ANT1_802_11ax(HE40)_2422



