

Appendix

Test Data

for BTEK240913006AE

Start date	2024/9/19	Finish date	2024/9/19
Temperature	24.0℃	Humidity	63%
RF specifications	2.4G_WIFI	Test Engineer	Zora



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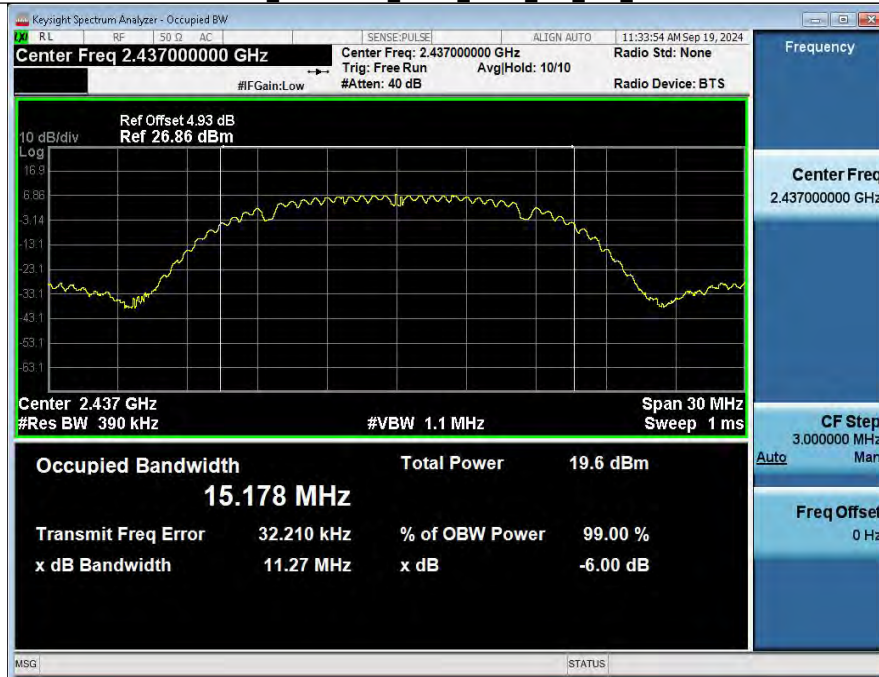
1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	11.22	500	Pass
NVNT	ANT1	802.11b	2437.00	11.27	500	Pass
NVNT	ANT1	802.11b	2462.00	12.23	500	Pass
NVNT	ANT1	802.11g	2412.00	17.54	500	Pass
NVNT	ANT1	802.11g	2437.00	17.51	500	Pass
NVNT	ANT1	802.11g	2462.00	17.48	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	10.00	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	11.01	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	11.02	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	31.70	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	32.18	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	31.88	500	Pass

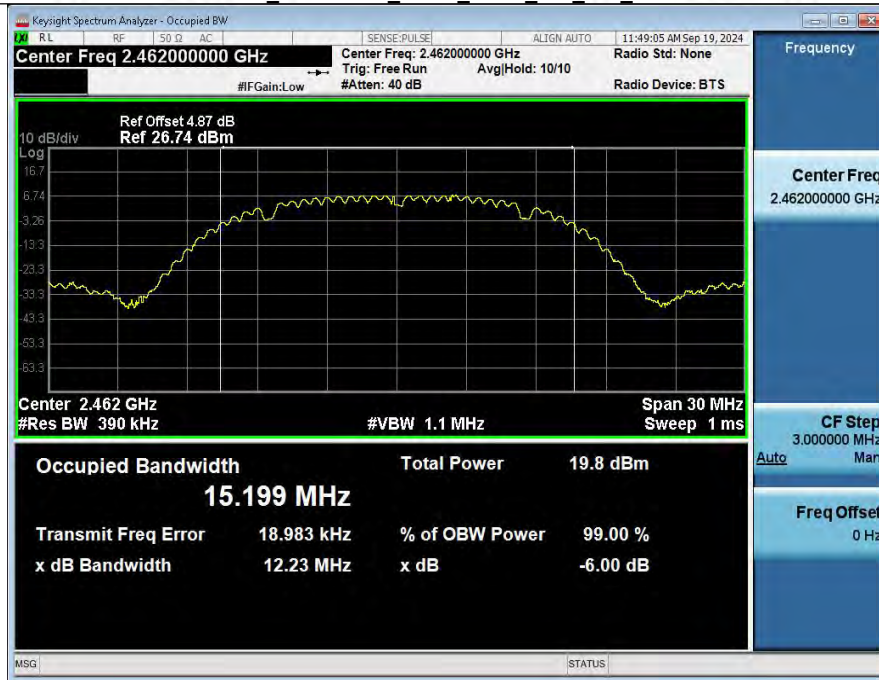
-6dB Bandwidth_NVNT_ANT1_802_11b_2412



-6dB Bandwidth_NVNT_ANT1_802_11b_2437



-6dB Bandwidth_NVNT_ANT1_802_11b_2462



-6dB Bandwidth_NVNT_ANT1_802_11g_2412



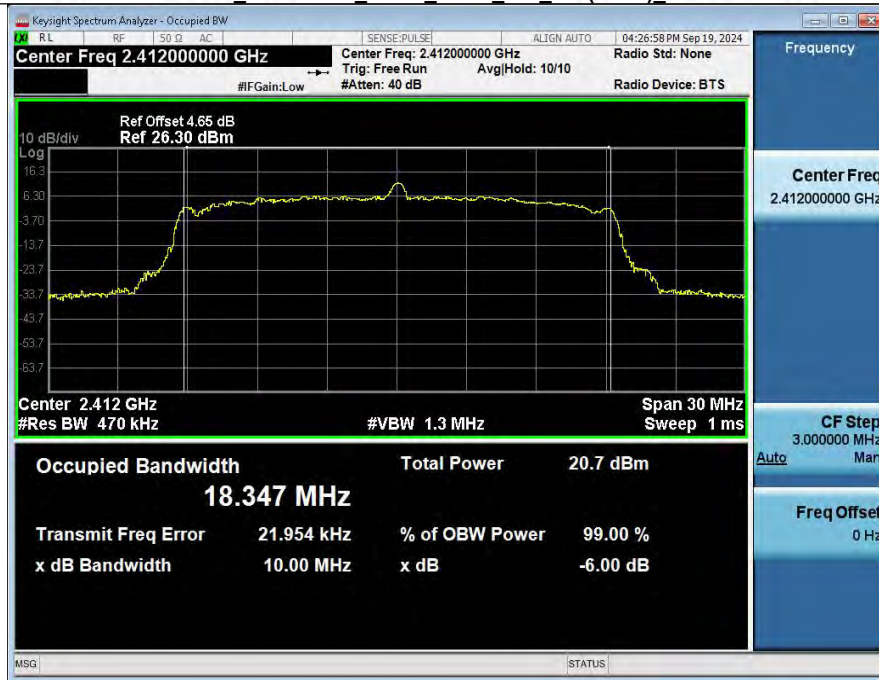
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-6dB Bandwidth_NVNT_ANT1_802_11g_2462



-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2412



-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2437



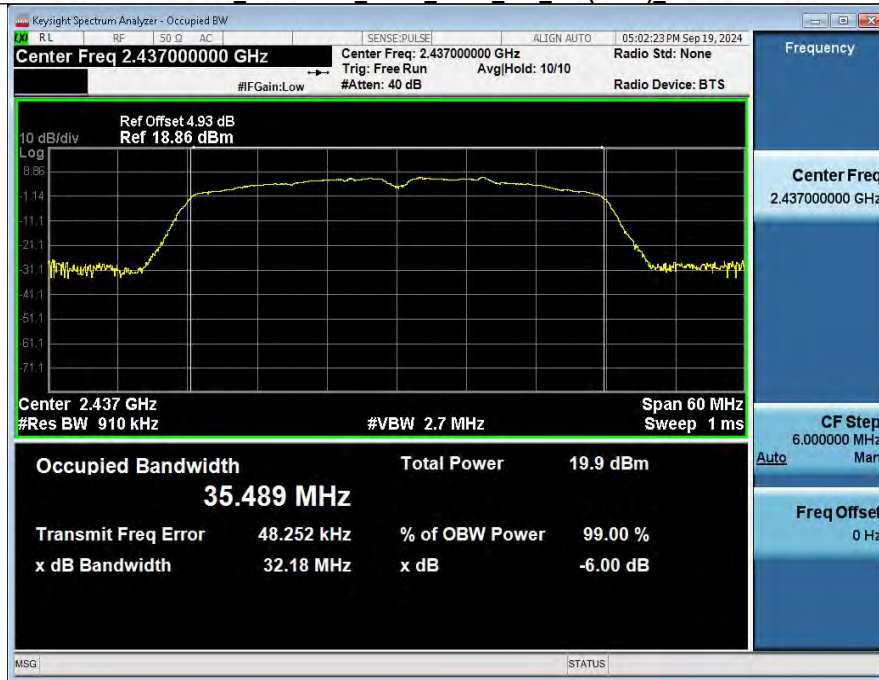
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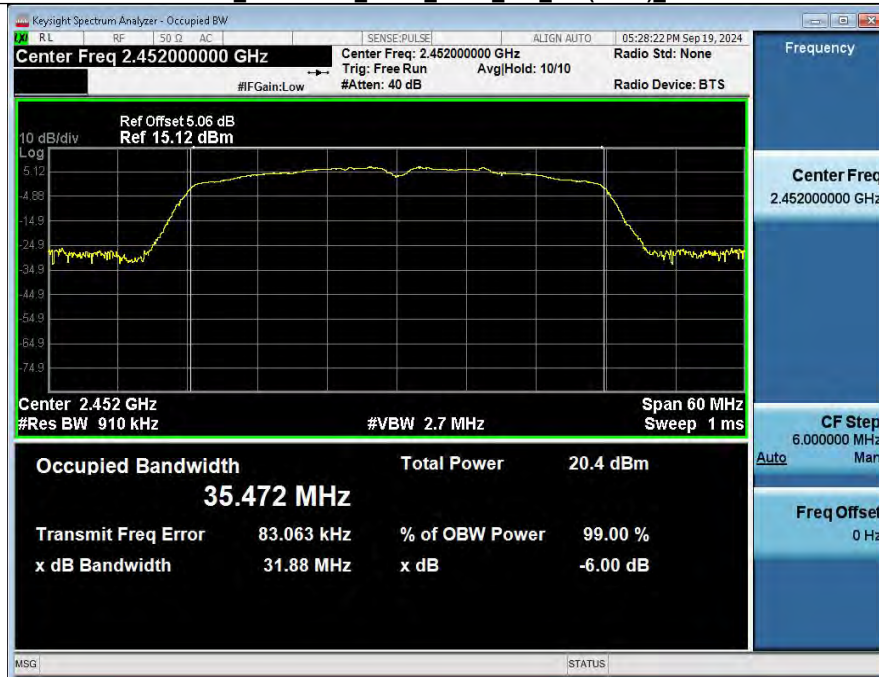
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	15.177
NVNT	ANT1	802.11b	2437.00	15.193
NVNT	ANT1	802.11b	2462.00	15.196
NVNT	ANT1	802.11g	2412.00	17.460
NVNT	ANT1	802.11g	2437.00	17.486
NVNT	ANT1	802.11g	2462.00	17.500
NVNT	ANT1	802.11n(HT20)	2412.00	18.334
NVNT	ANT1	802.11n(HT20)	2437.00	18.348
NVNT	ANT1	802.11n(HT20)	2462.00	18.353
NVNT	ANT1	802.11n(HT40)	2422.00	35.471
NVNT	ANT1	802.11n(HT40)	2437.00	35.479
NVNT	ANT1	802.11n(HT40)	2452.00	35.474

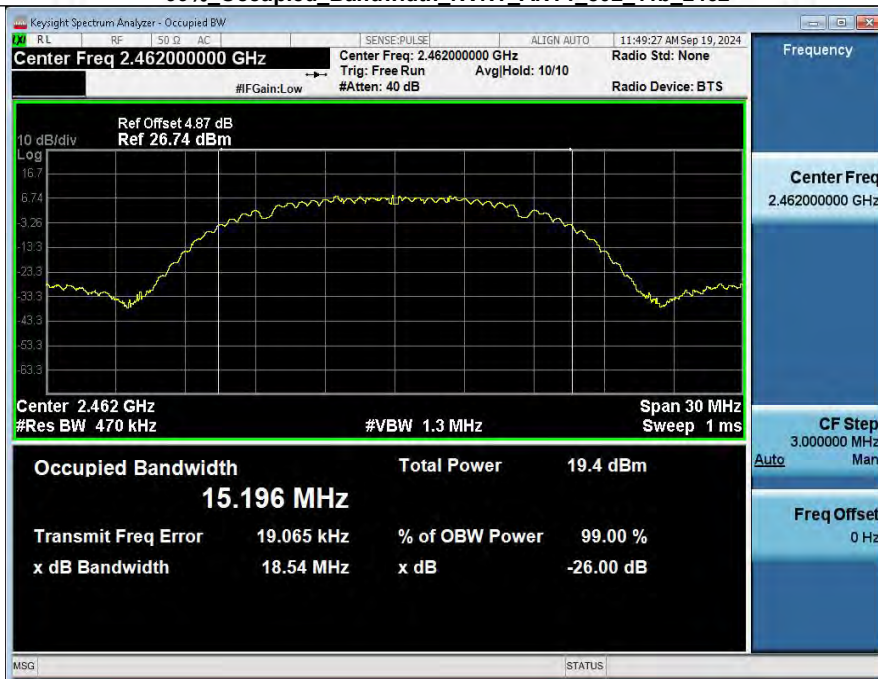
99% Occupied Bandwidth NVNT ANT1 802_11b_2412



99% Occupied Bandwidth NVNT ANT1 802_11b_2437



99% Occupied Bandwidth_NVNT_ANT1_802_11b_2462



99% Occupied Bandwidth_NVNT_ANT1_802_11g_2412



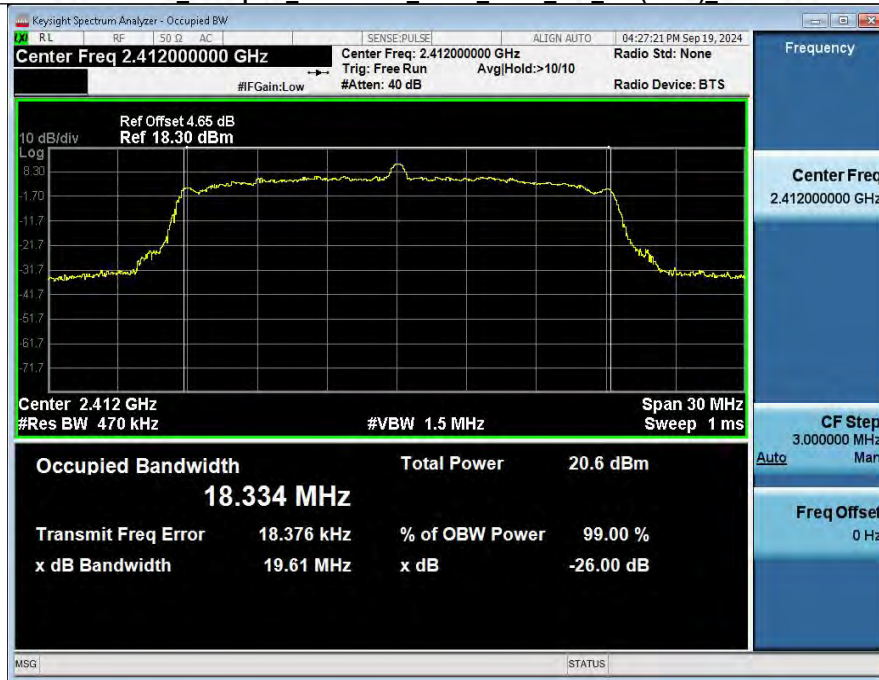
99% Occupied Bandwidth_NVNT_ANT1_802_11g_2437



99% Occupied Bandwidth_NVNT_ANT1_802_11g_2462



99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



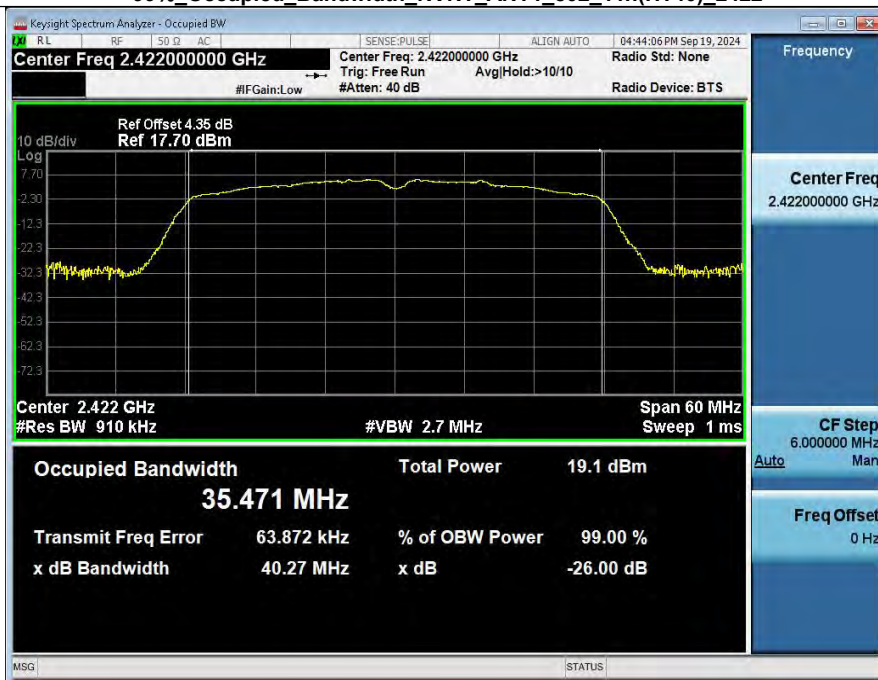
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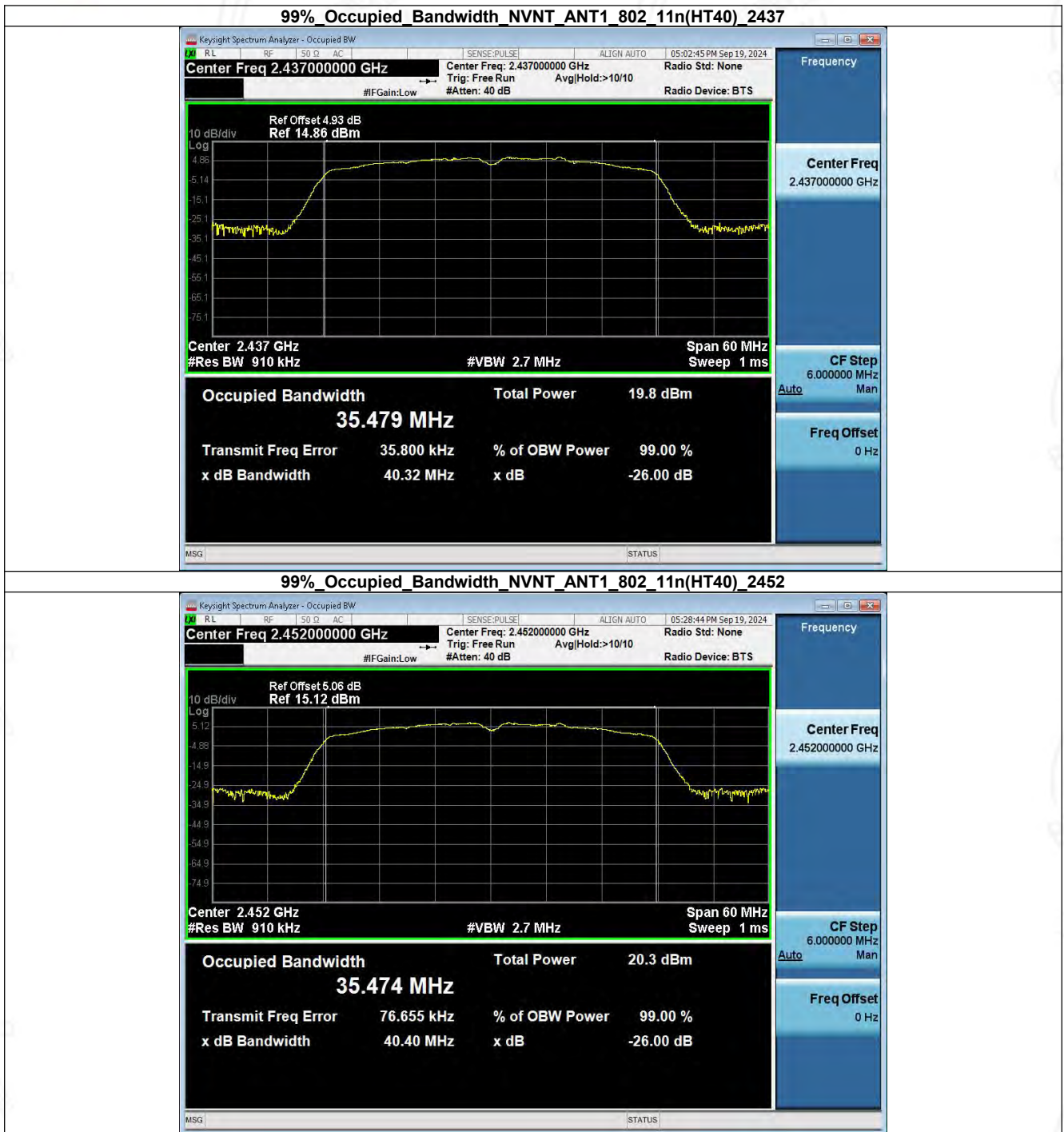


99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2422

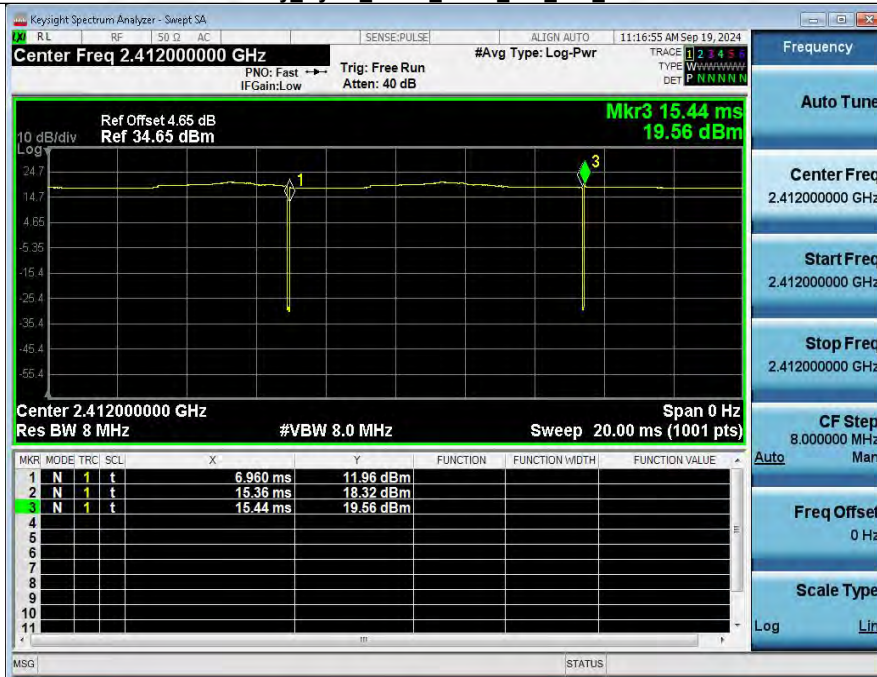




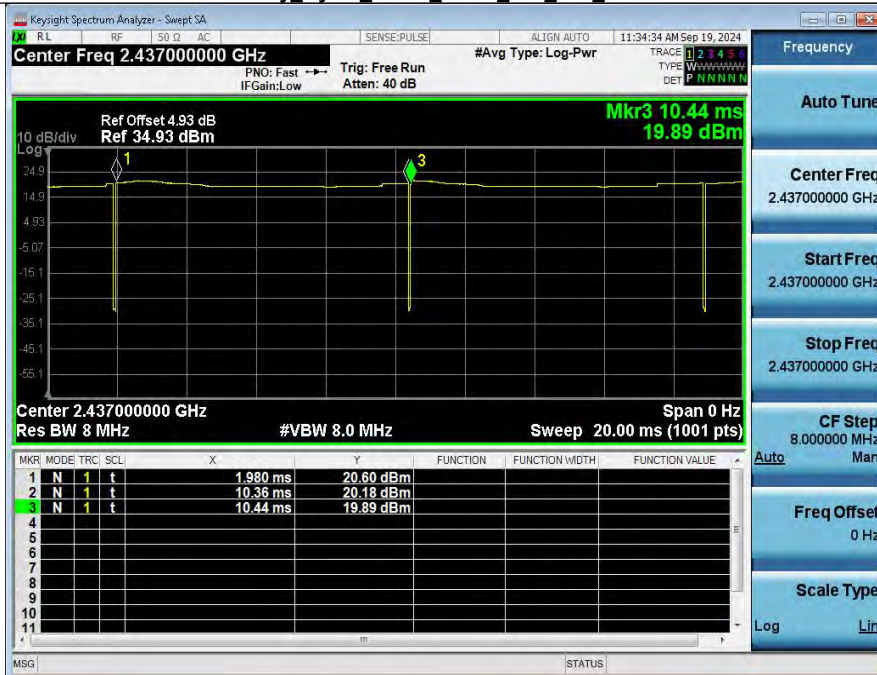
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.29	0.00
NVNT	ANT1	802.11b	2437.00	99.29	0.00
NVNT	ANT1	802.11b	2462.00	99.29	0.00
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	802.11n(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

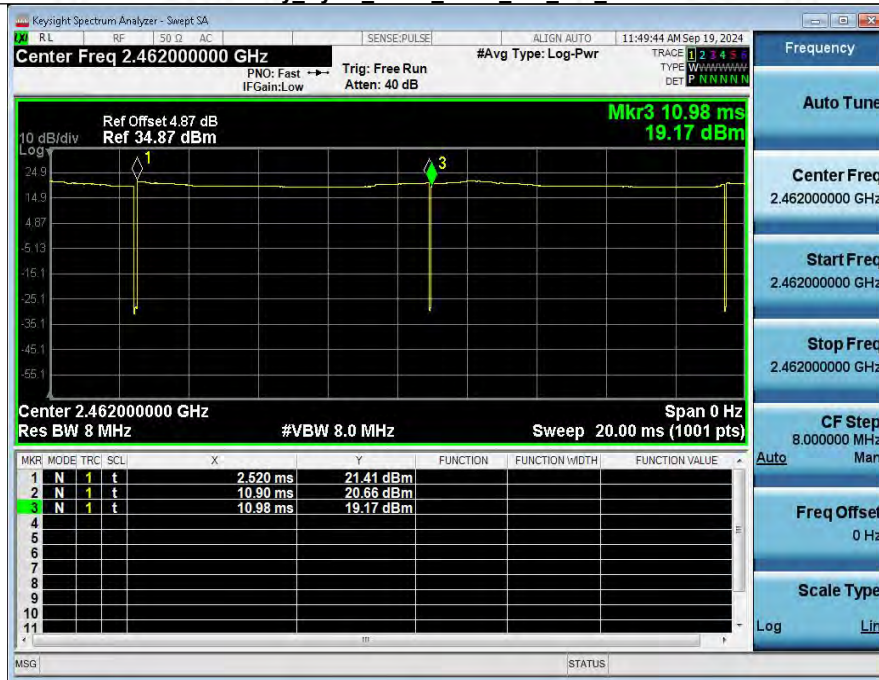
Duty Cycle NVNT_ANT1_802_11b_2412



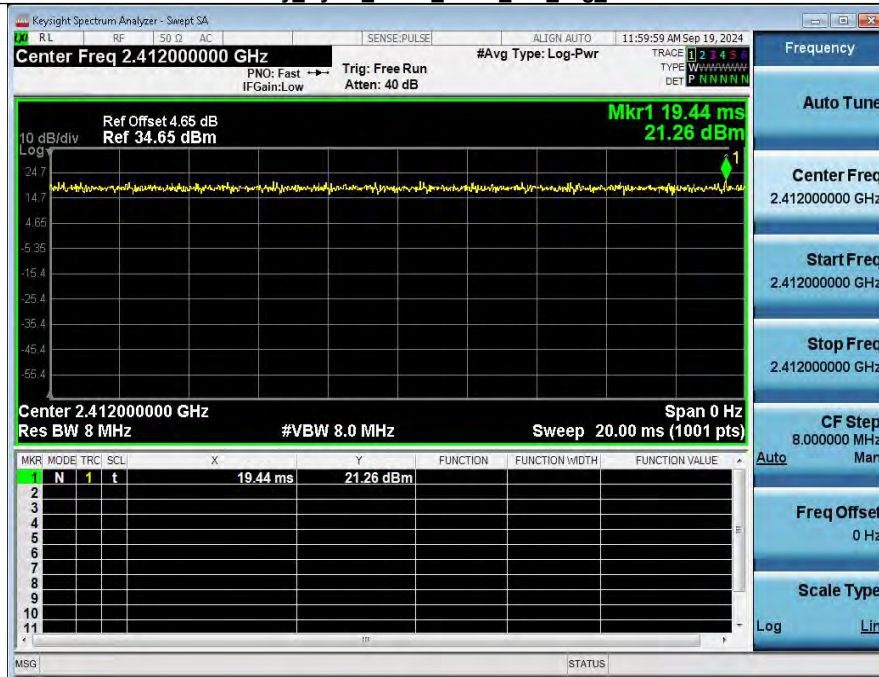
Duty Cycle NVNT_ANT1_802_11b_2437



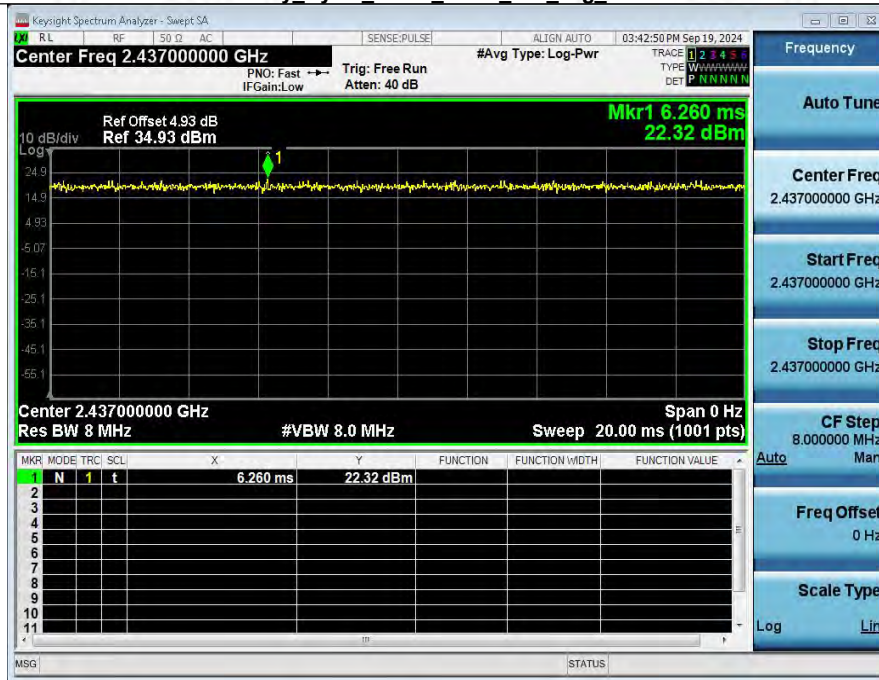
Duty Cycle NVNT_ANT1_802_11b_2462



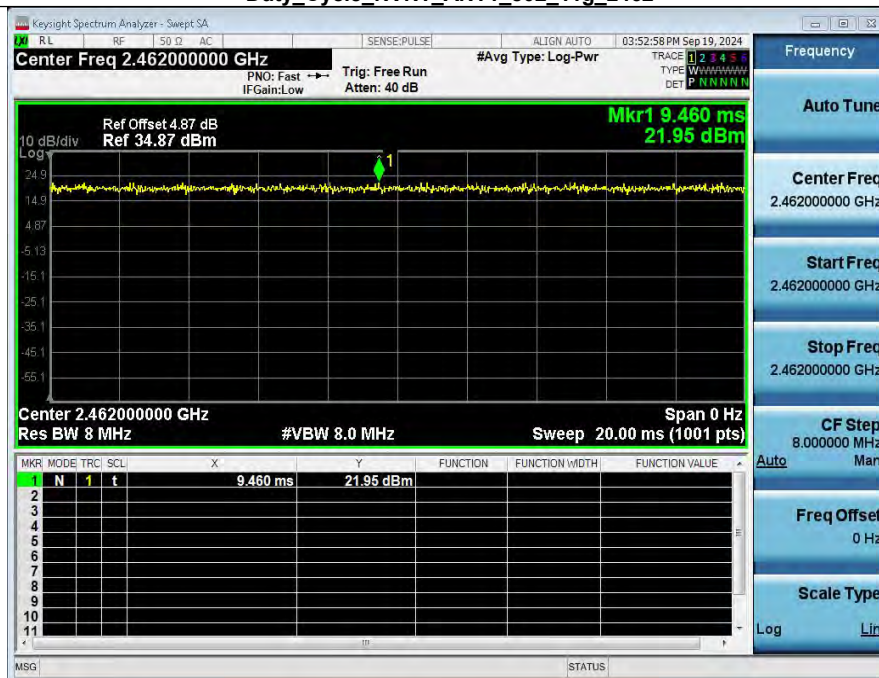
Duty Cycle NVNT_ANT1_802_11g_2412



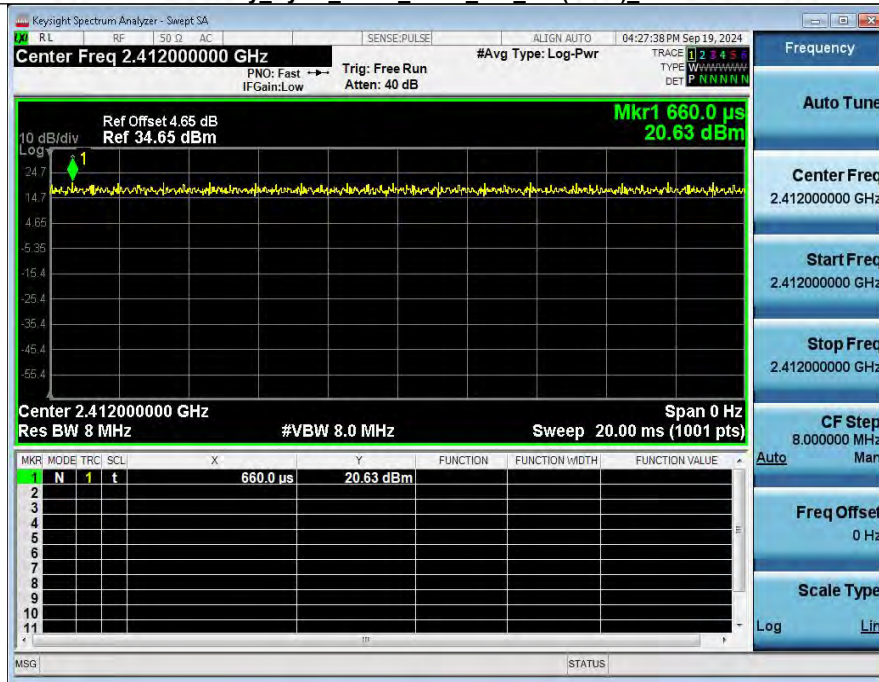
Duty_Cycle_NVNT_ANT1_802_11g_2437



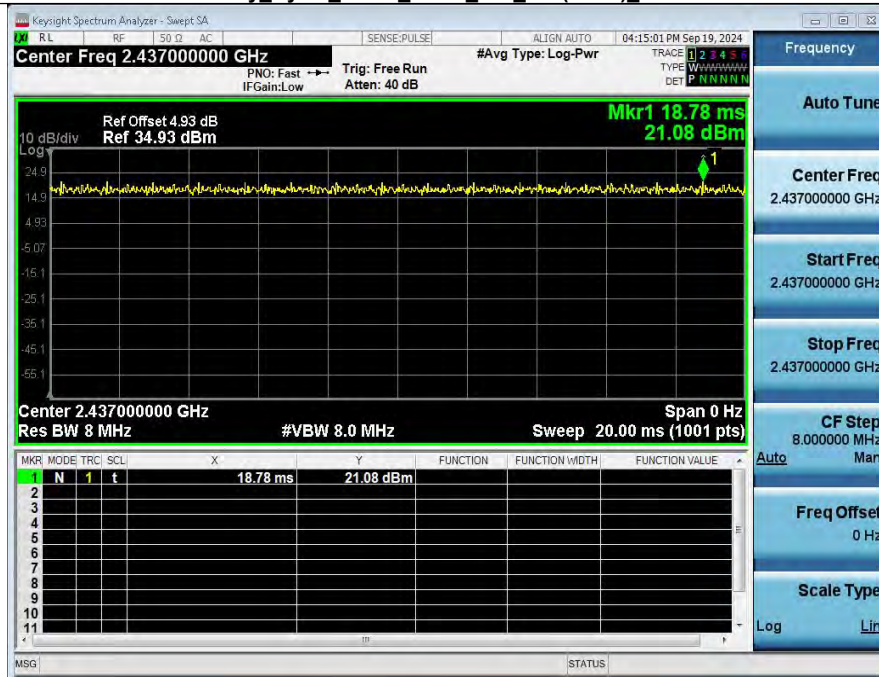
Duty_Cycle_NVNT_ANT1_802_11g_2462



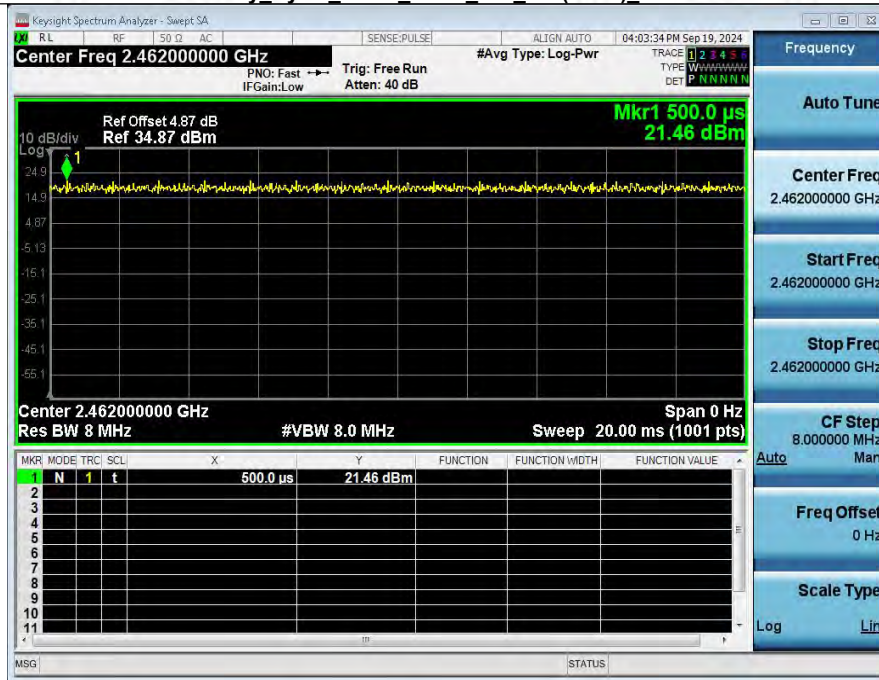
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



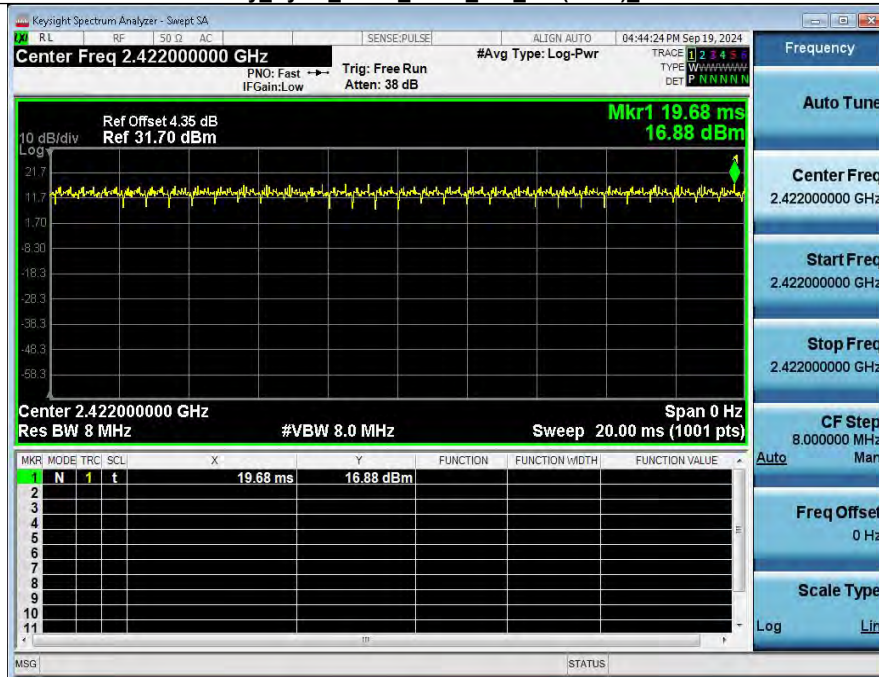
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



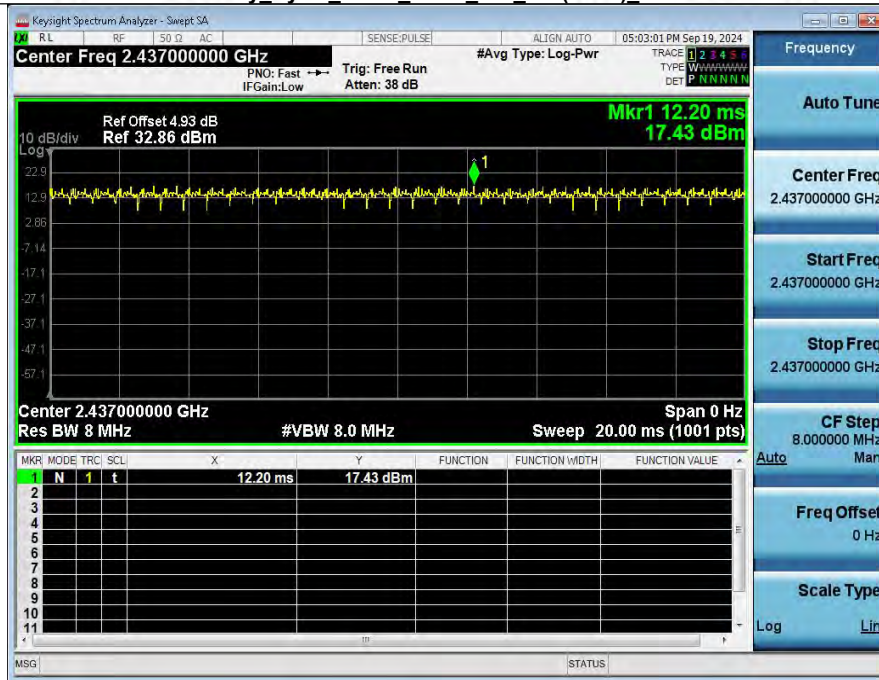
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2462



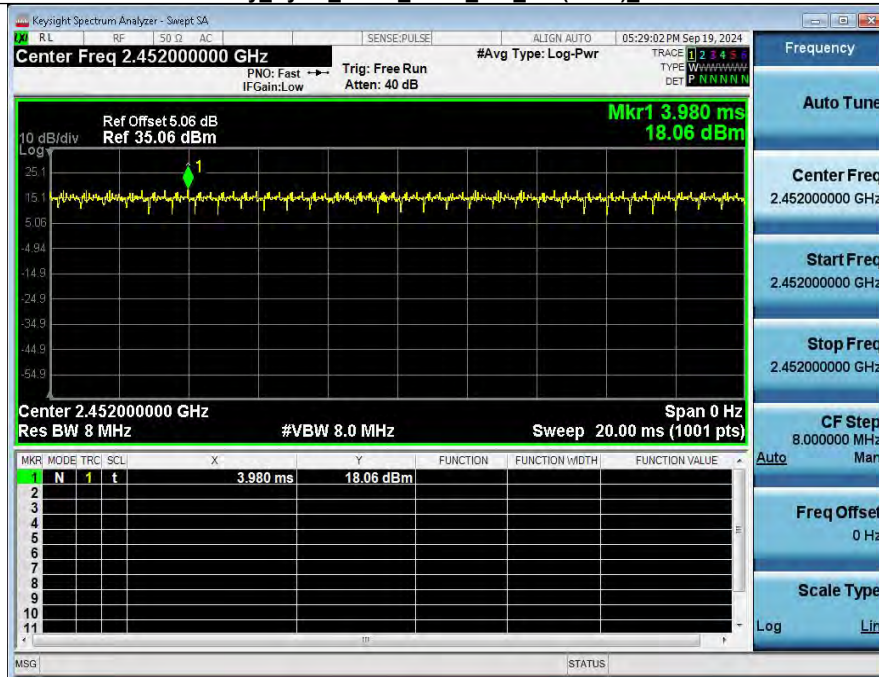
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2437



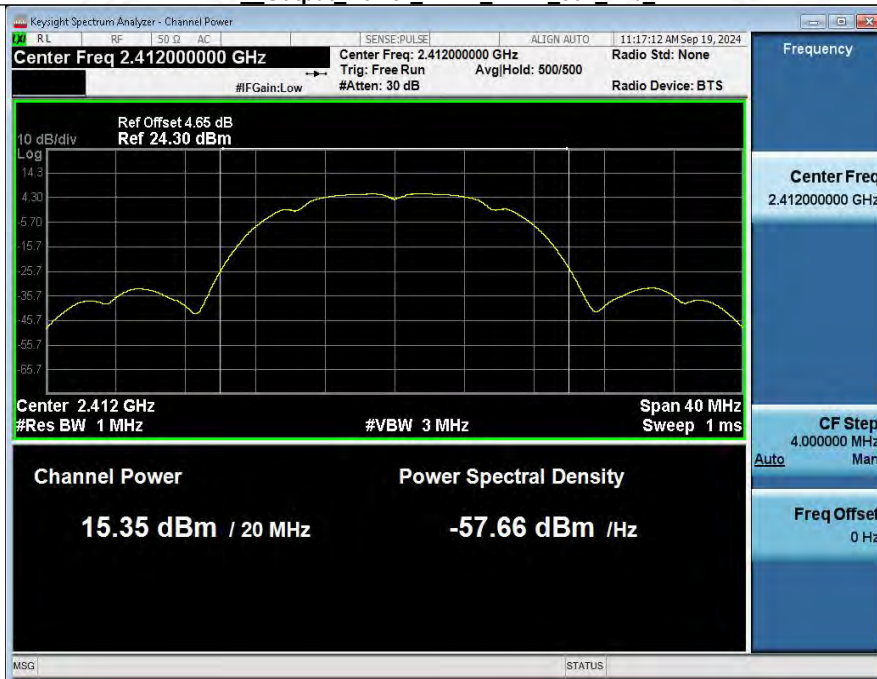
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2452



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	15.35	0.00	15.35	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	16.18	0.00	16.18	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	16.38	0.00	16.38	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.68	0.00	13.68	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	14.68	0.00	14.68	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	15.21	0.00	15.21	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	12.80	0.00	12.80	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	13.46	0.00	13.46	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	14.02	0.00	14.02	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	11.26	0.00	11.26	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	12.03	0.00	12.03	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.59	0.00	12.59	30	Pass

MAX_Output Power_NVNT_ANT1_802_11b_2412



MAX_Output Power_NVNT_ANT1_802_11b_2437



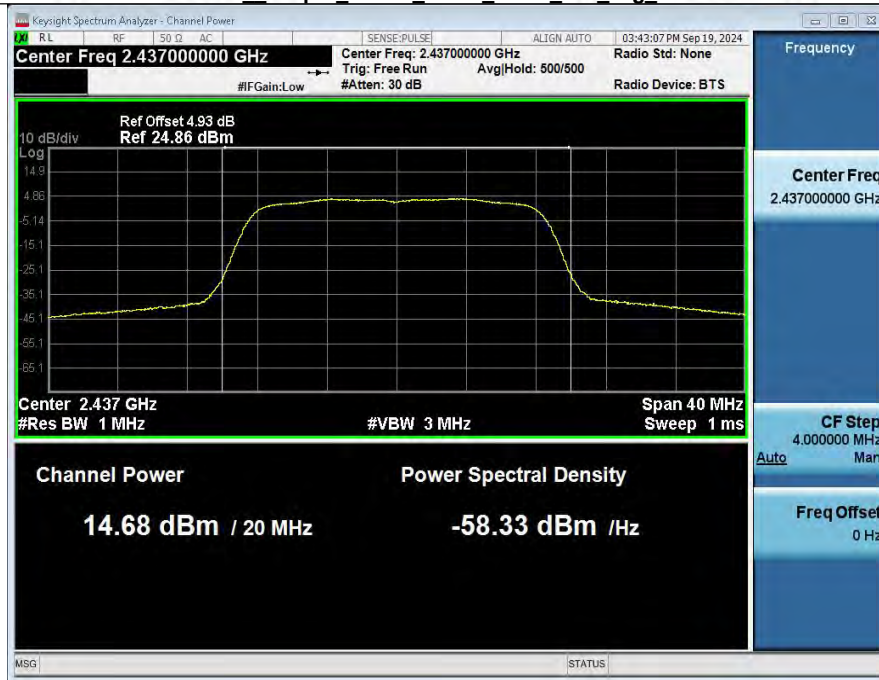
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MAX Output Power_NVNT_ANT1_802_11g_2412



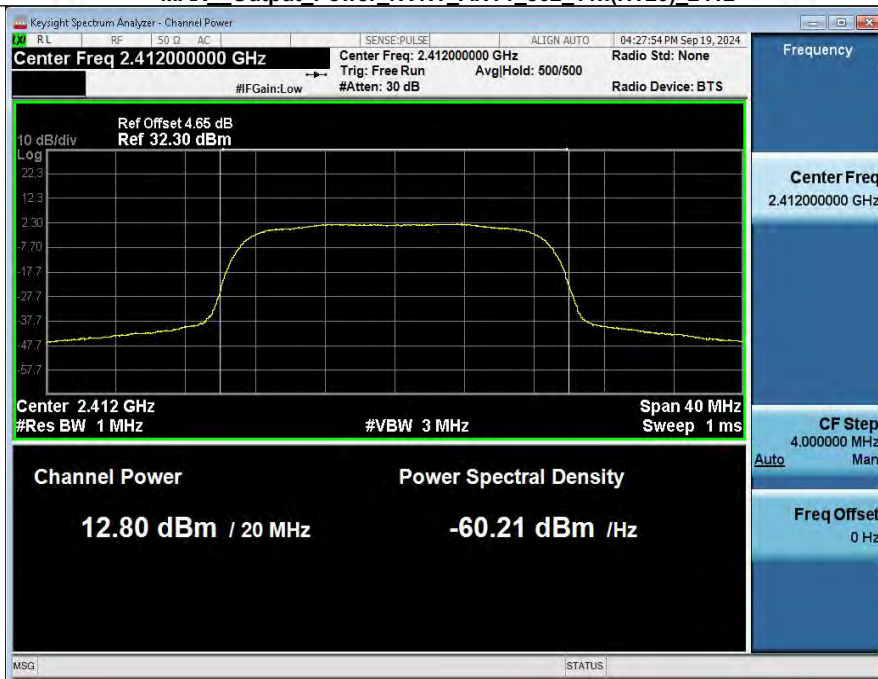
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MAX_Output_Power_NVNT_ANT1_802_11g_2462



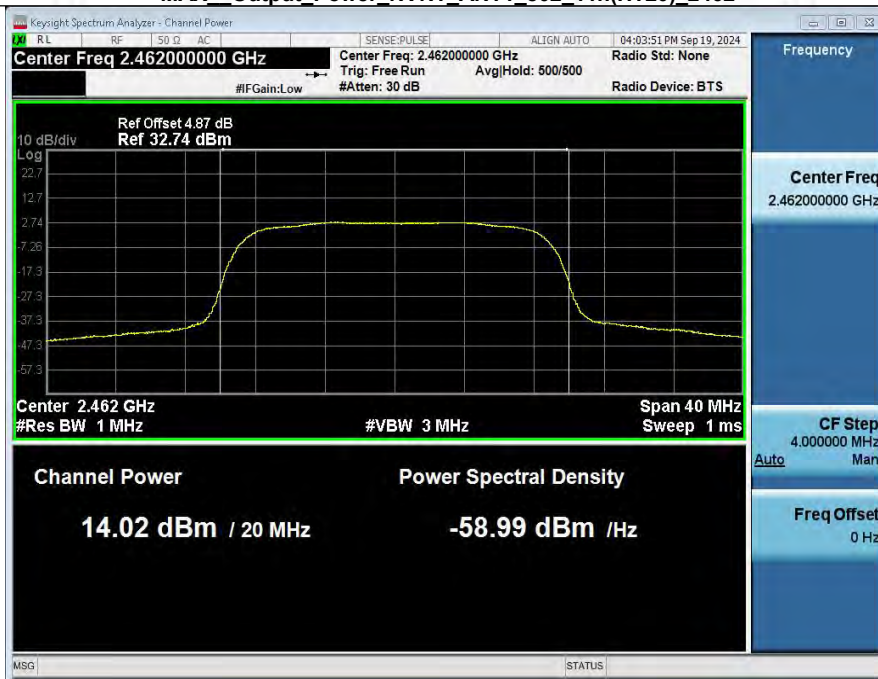
MAX Output Power_NVNT_ANT1_802_11n(HT20)_2412



MAX Output Power_NVNT_ANT1_802_11n(HT20)_2437



MAX Output Power_NVNT_ANT1_802_11n(HT20)_2462



MAX Output Power_NVNT_ANT1_802_11n(HT40)_2422



MAX_Output_Power_NVNT_ANT1_802_11n(HT40)_2437



MAX_Output_Power_NVNT_ANT1_802_11n(HT40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-13.53	8	Pass
NVNT	ANT1	802.11b	2437.00	-13.01	8	Pass
NVNT	ANT1	802.11b	2462.00	-13.24	8	Pass
NVNT	ANT1	802.11g	2412.00	-17.65	8	Pass
NVNT	ANT1	802.11g	2437.00	-17.10	8	Pass
NVNT	ANT1	802.11g	2462.00	-17.42	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-20.35	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-15.95	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-15.91	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-23.22	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-22.83	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-22.12	8	Pass



Power Spectral Density NVNT_ANT1_802_11b_2412



Power Spectral Density NVNT_ANT1_802_11b_2437

