

Table of Contents

1. -6dB Bandwidth2

2. 99% Occupied Bandwidth12

3. Duty Cycle22

5. Power Spectral Density32

6. Bandedge42

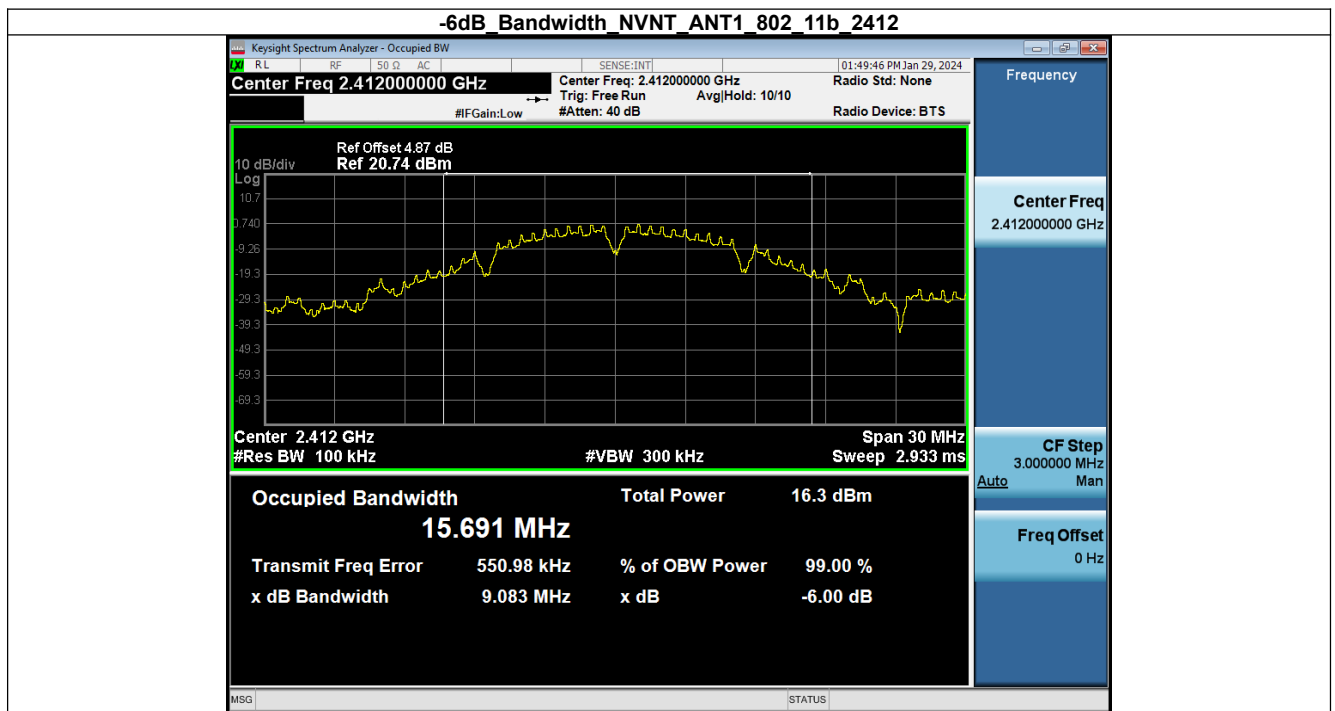
7. Spurious Emission55

FCC ID:2A9NV-YM300

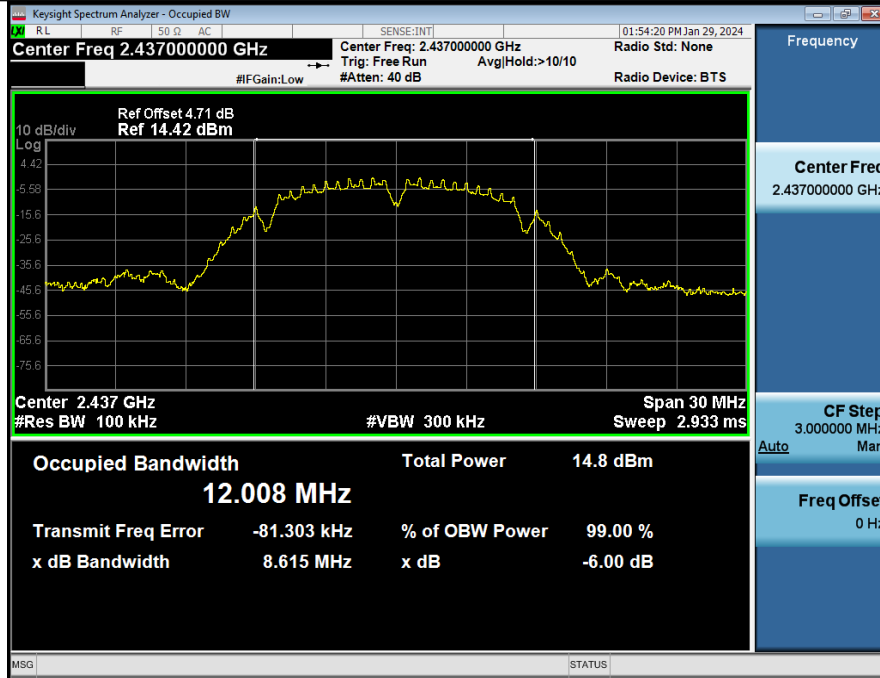
FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	9.08	500	Pass
NVNT	ANT1	802.11b	2437.00	8.61	500	Pass
NVNT	ANT1	802.11b	2462.00	10.05	500	Pass
NVNT	ANT1	802.11g	2412.00	15.46	500	Pass
NVNT	ANT1	802.11g	2437.00	16.08	500	Pass
NVNT	ANT1	802.11g	2462.00	15.73	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	15.94	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.99	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	16.59	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	15.92	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	16.97	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	16.40	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	33.89	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.93	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.24	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	33.90	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	36.32	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	35.20	500	Pass



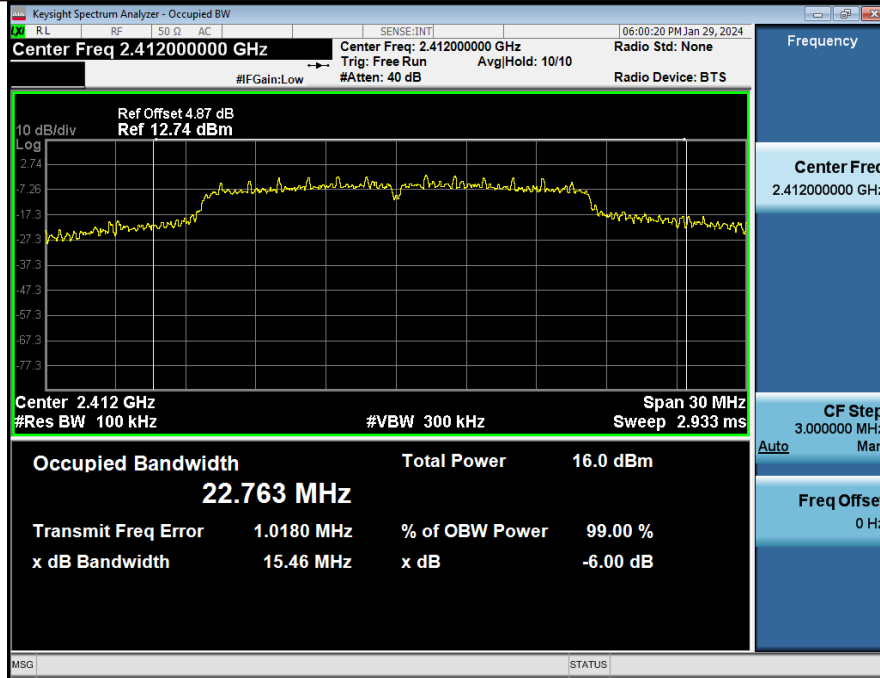
-6dB Bandwidth NVNT_ANT1_802_11b_2437



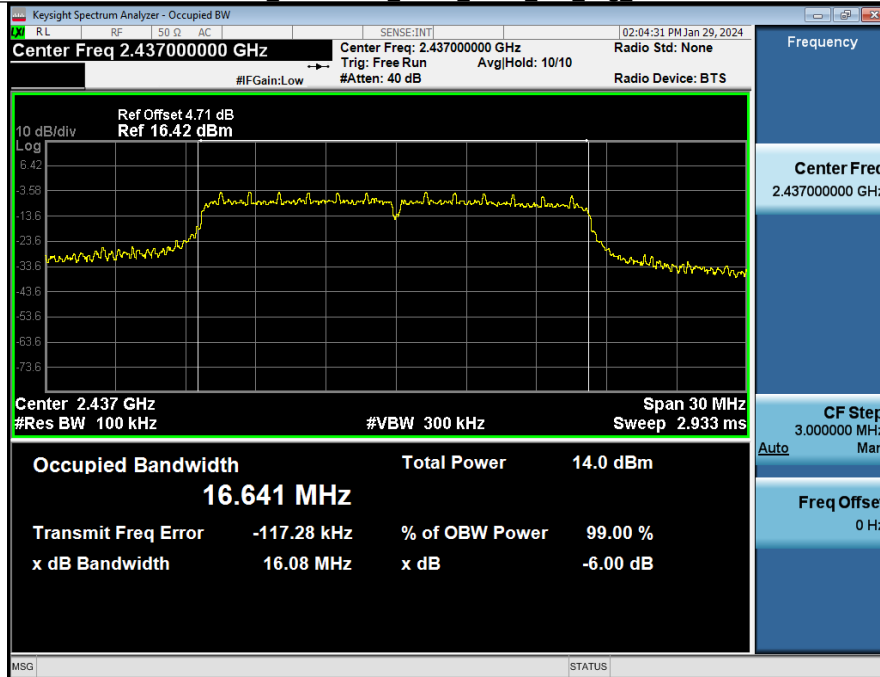
-6dB Bandwidth NVNT_ANT1_802_11b_2462



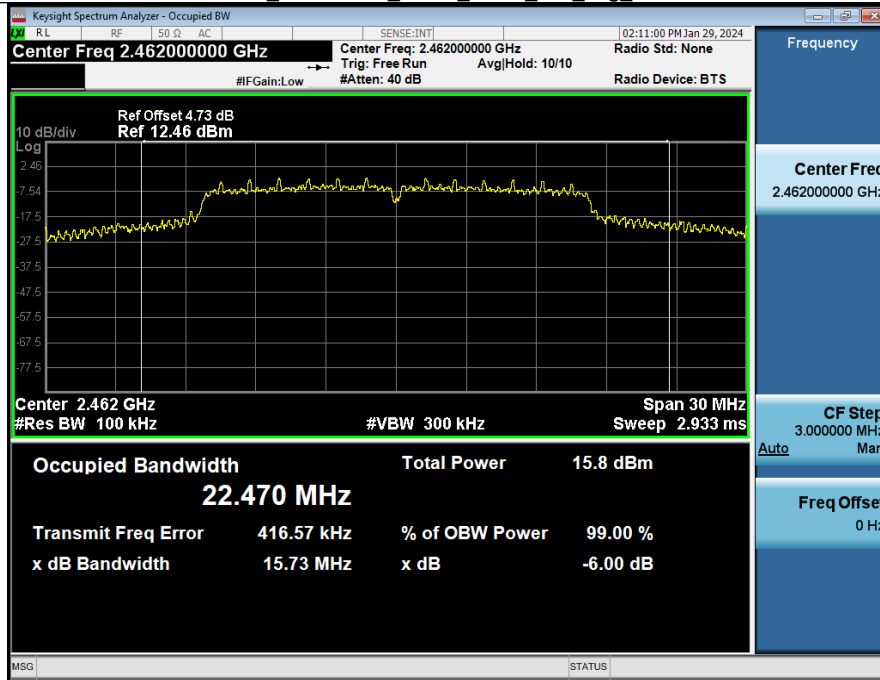
-6dB Bandwidth NVNT_ANT1_802_11g_2412



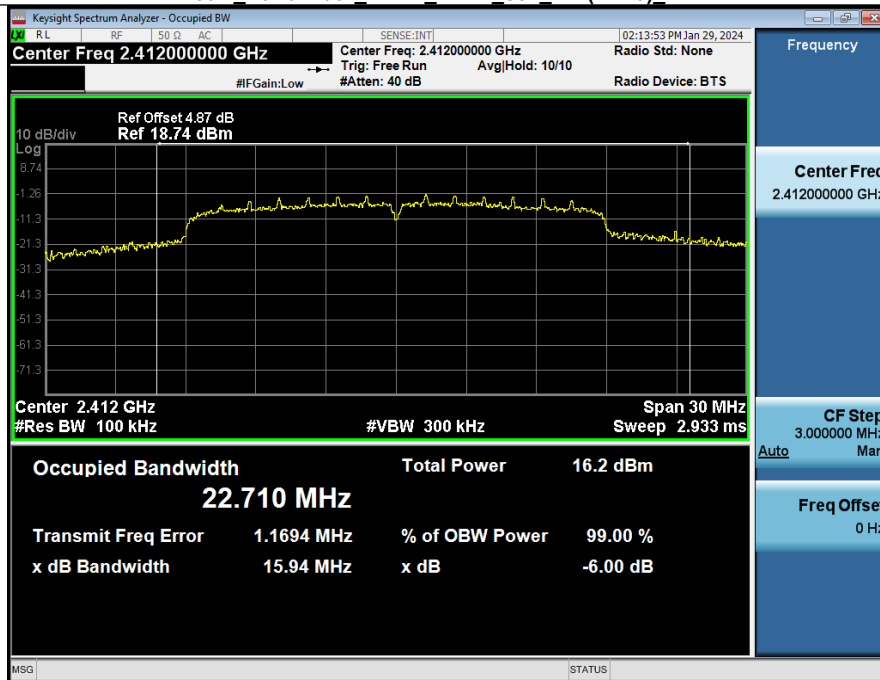
-6dB Bandwidth NVNT_ANT1_802_11g_2437



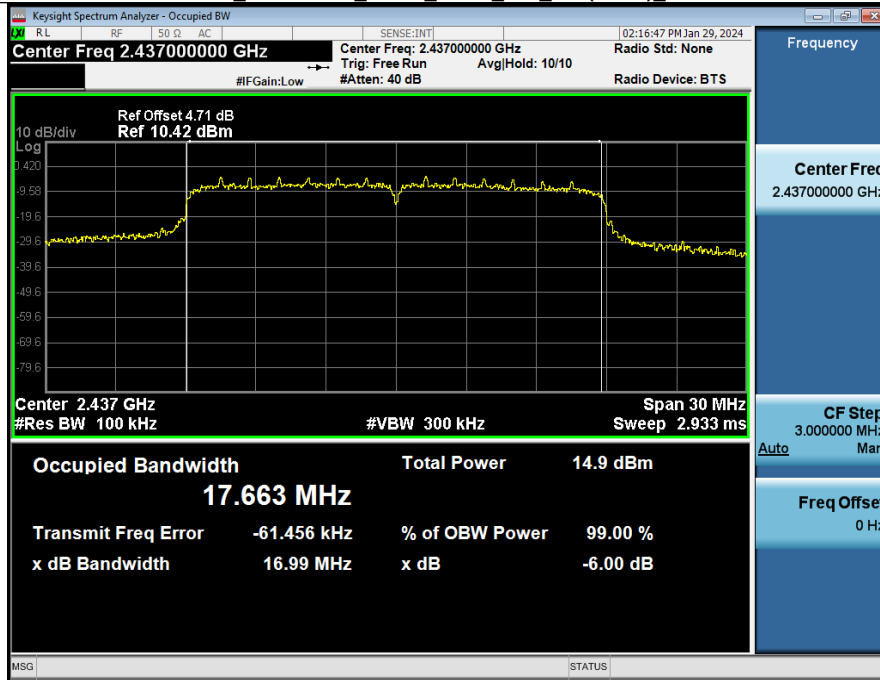
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462



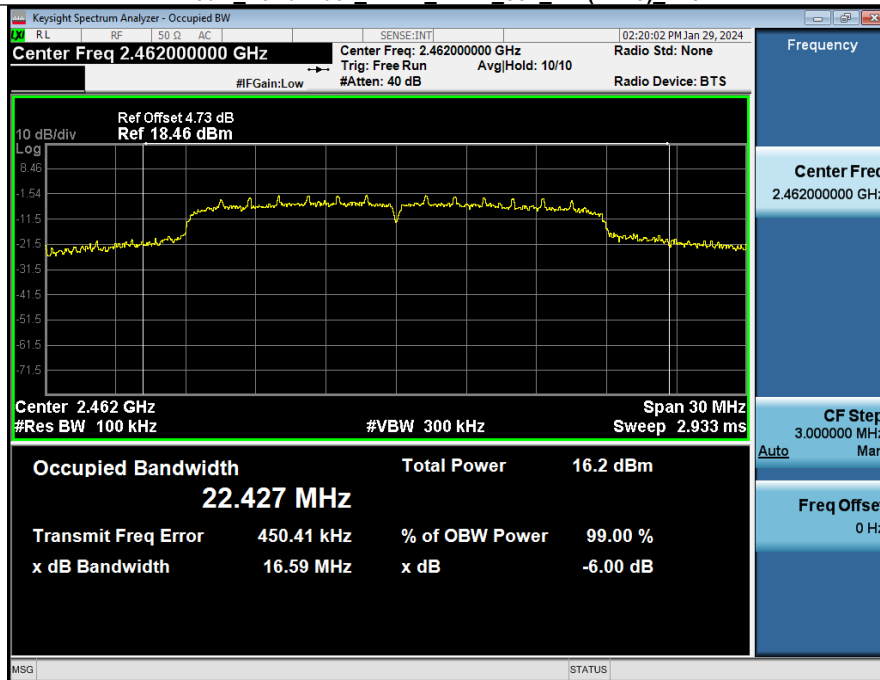
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



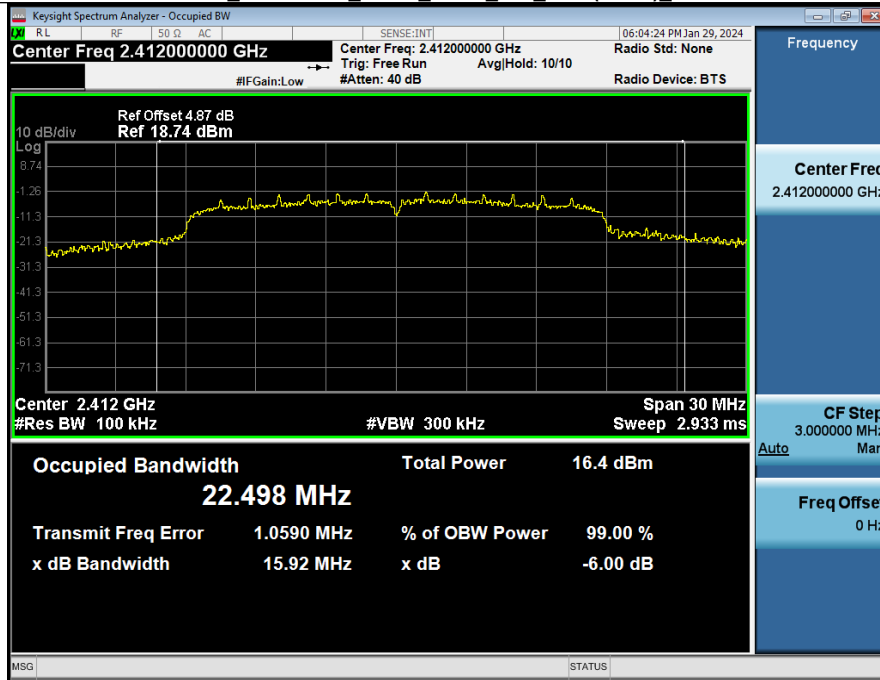
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



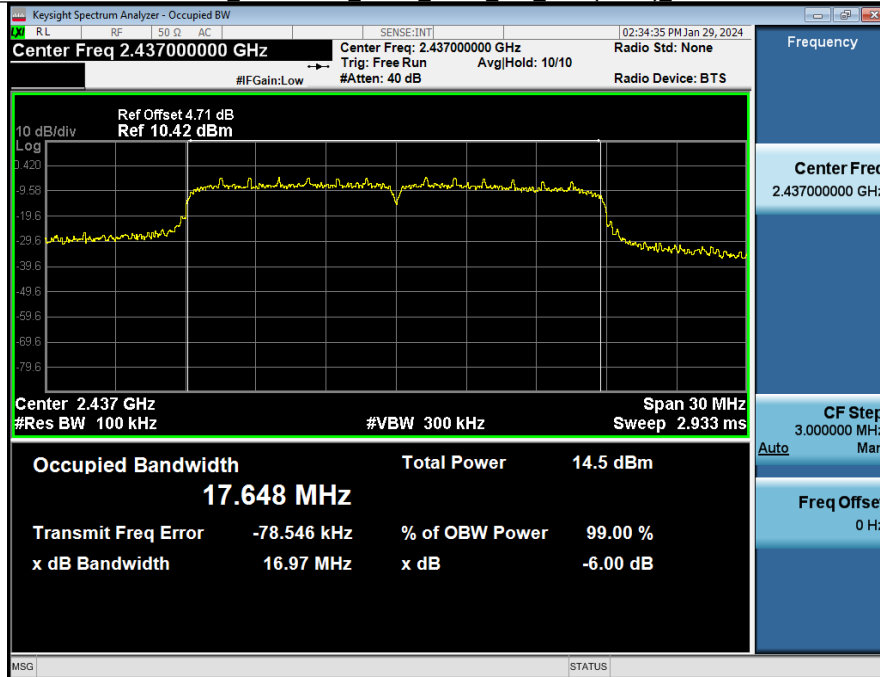
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



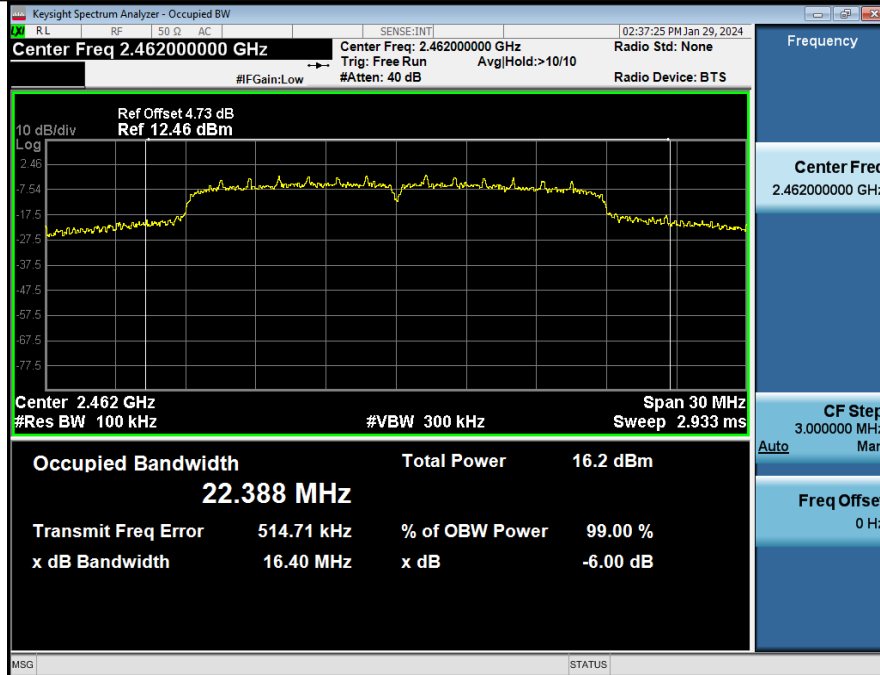
-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2437



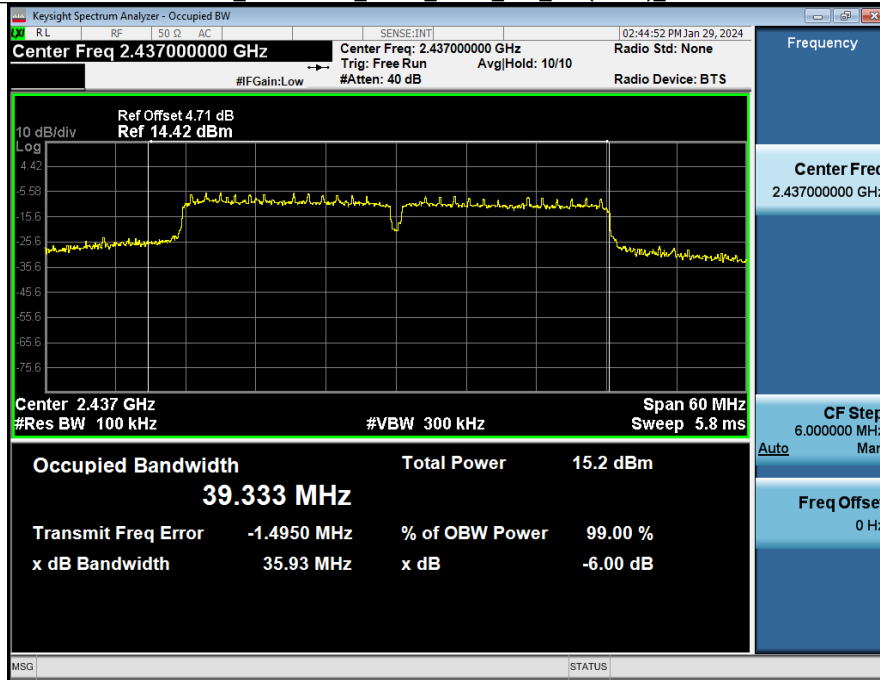
-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2462



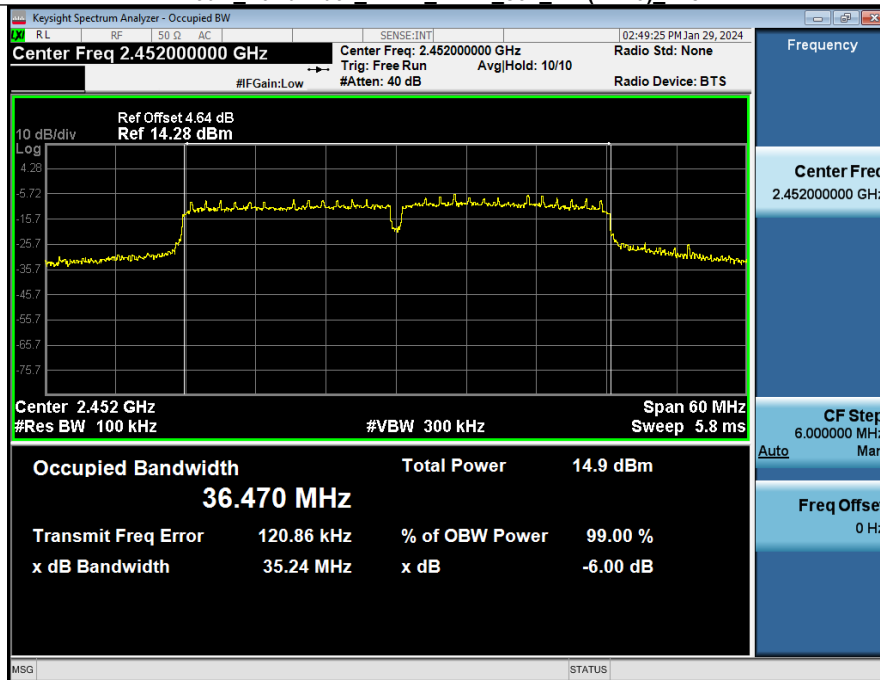
-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2422



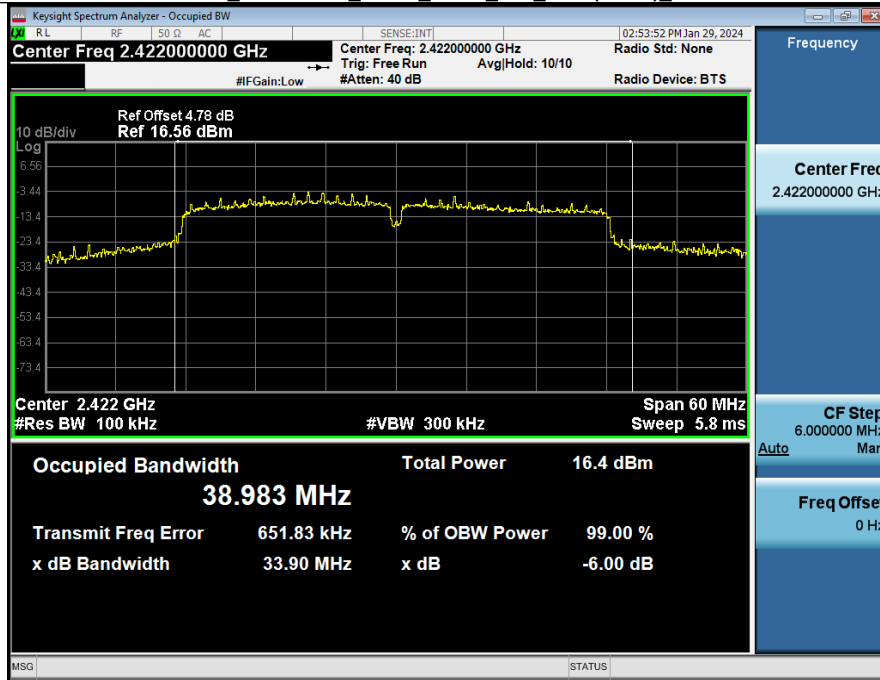
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



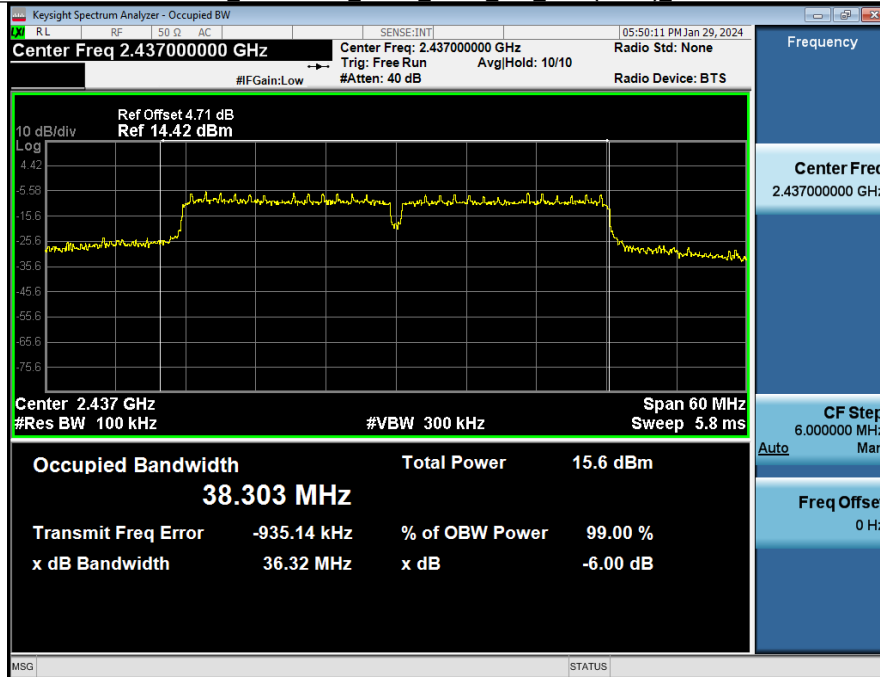
-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



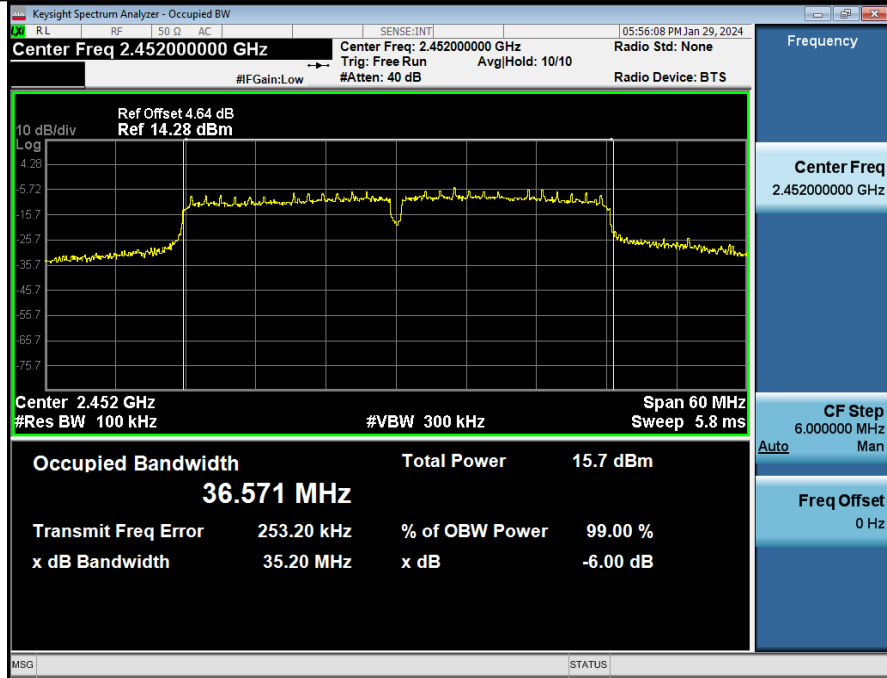
-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

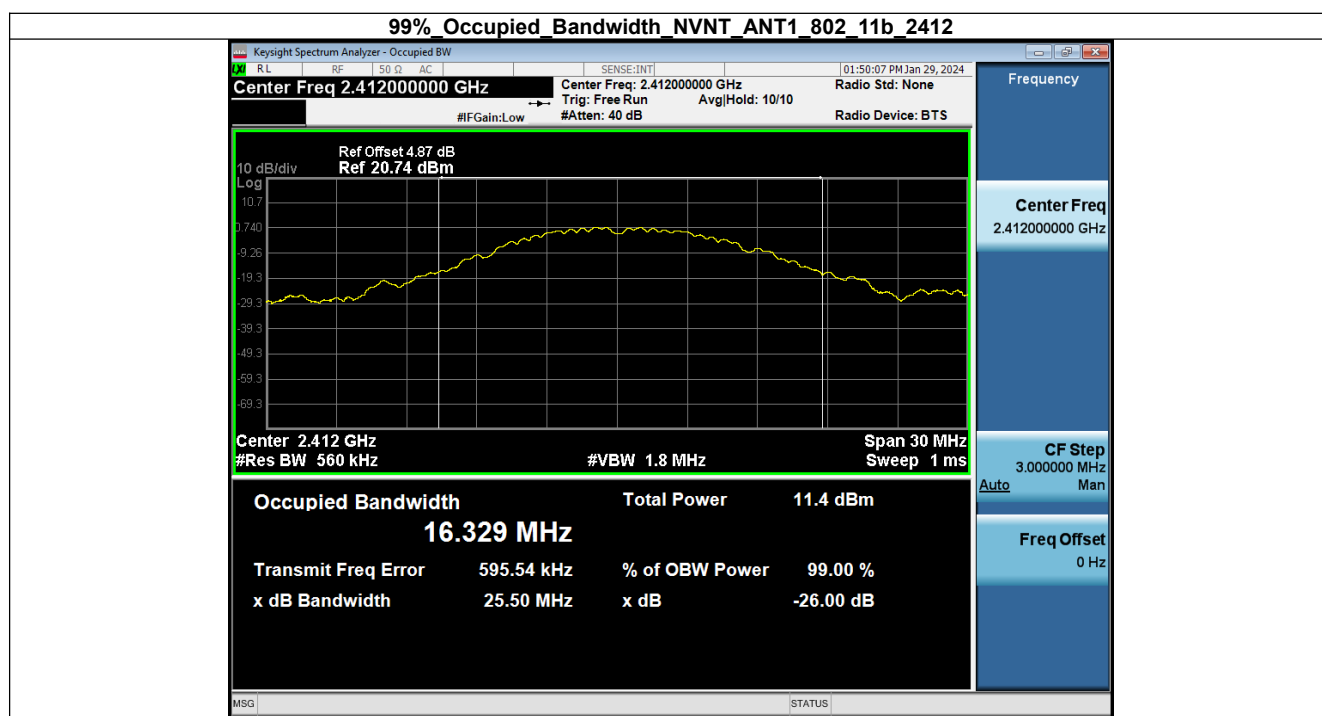


-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2452

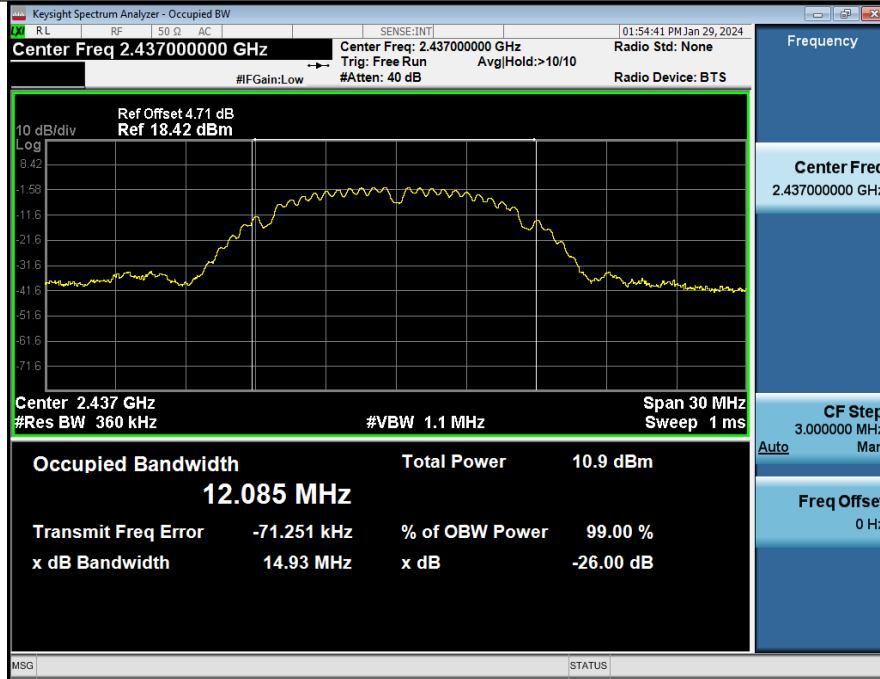


2. 99% Occupied Bandwidth

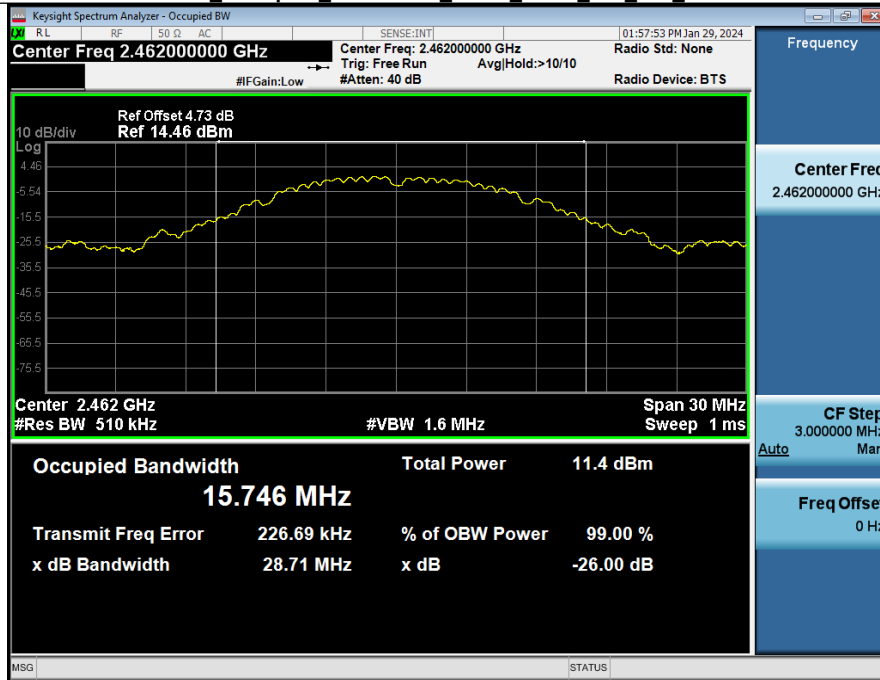
Condition	Antenna	Modulation	Frequency (MHz)	99% BW(MHz)
NVNT	ANT1	802.11b	2412.00	16.329
NVNT	ANT1	802.11b	2437.00	12.085
NVNT	ANT1	802.11b	2462.00	15.746
NVNT	ANT1	802.11g	2412.00	22.998
NVNT	ANT1	802.11g	2437.00	18.015
NVNT	ANT1	802.11g	2462.00	22.753
NVNT	ANT1	802.11n(HT20)	2412.00	22.537
NVNT	ANT1	802.11n(HT20)	2437.00	18.382
NVNT	ANT1	802.11n(HT20)	2462.00	22.453
NVNT	ANT1	802.11ax(HE20)	2412.00	22.796
NVNT	ANT1	802.11ax(HE20)	2437.00	18.410
NVNT	ANT1	802.11ax(HE20)	2462.00	22.369
NVNT	ANT1	802.11n(HT40)	2422.00	39.177
NVNT	ANT1	802.11n(HT40)	2437.00	41.122
NVNT	ANT1	802.11n(HT40)	2452.00	37.800
NVNT	ANT1	802.11ax(HE40)	2422.00	39.225
NVNT	ANT1	802.11ax(HE40)	2437.00	40.643
NVNT	ANT1	802.11ax(HE40)	2452.00	37.741



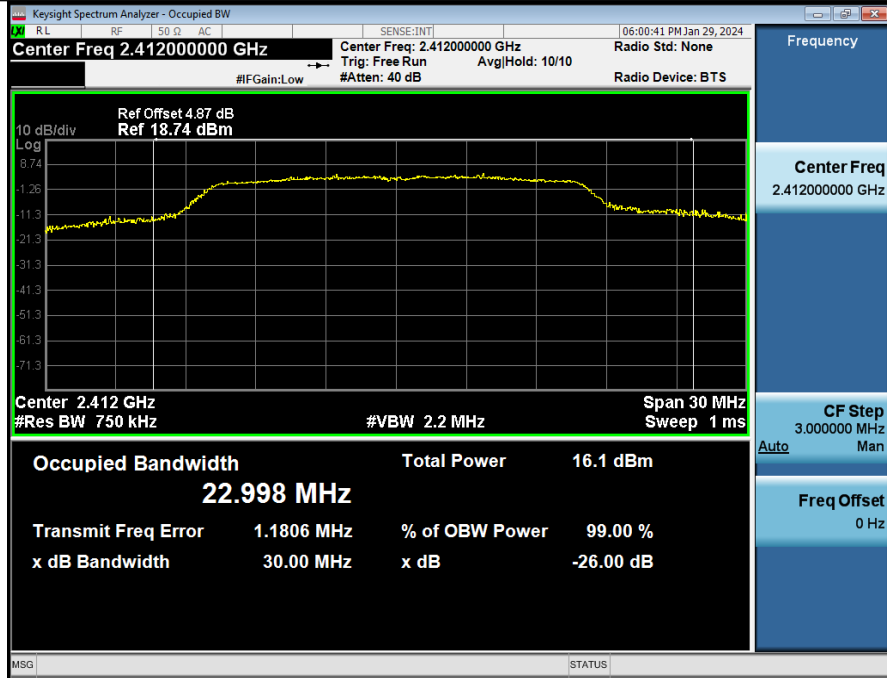
99% Occupied Bandwidth NVNT_ANT1_802_11b_2437



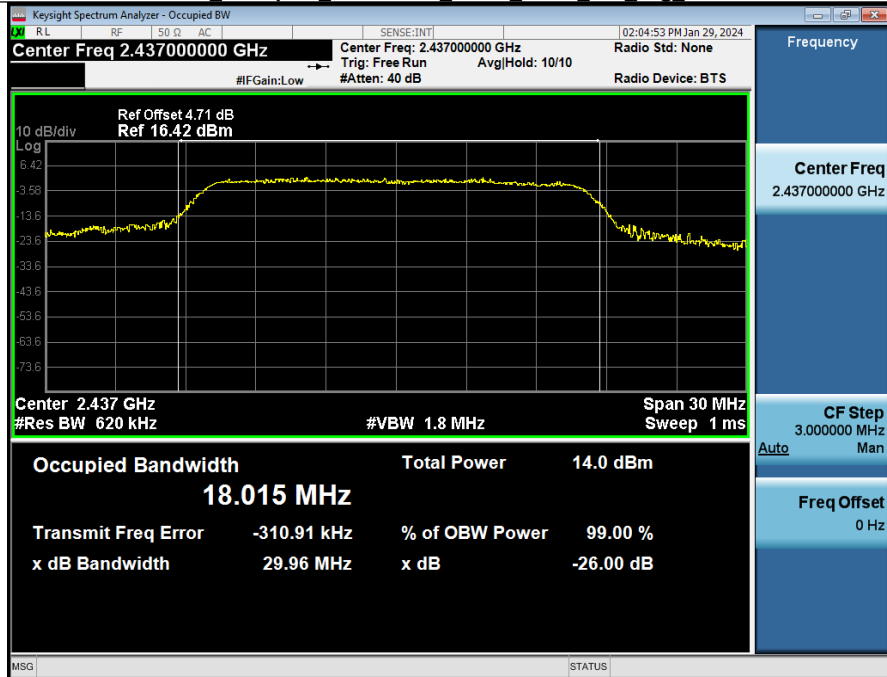
99% Occupied Bandwidth NVNT_ANT1_802_11b_2462



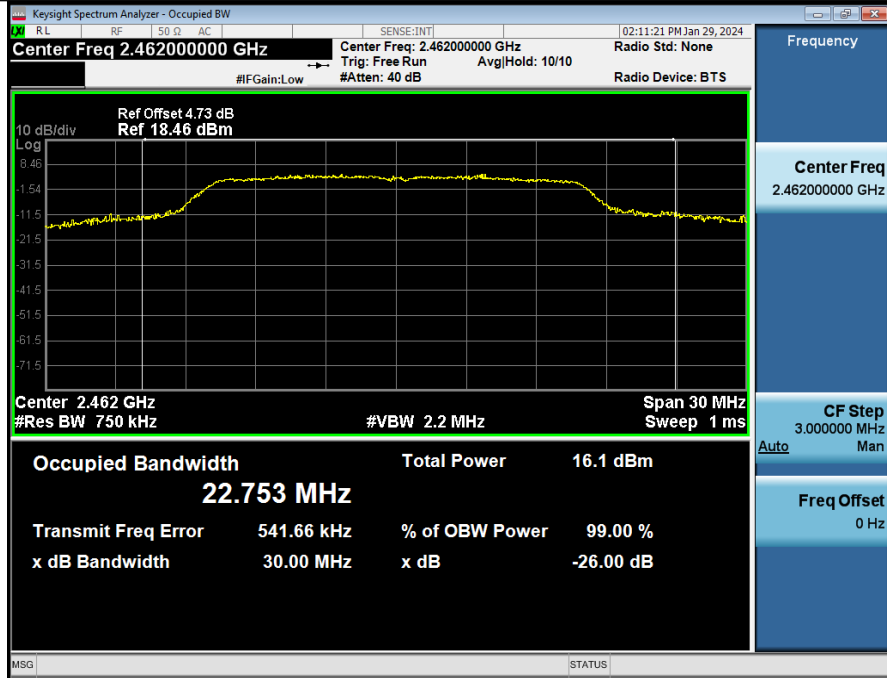
99% Occupied Bandwidth NVNT_ANT1_802_11g_2412



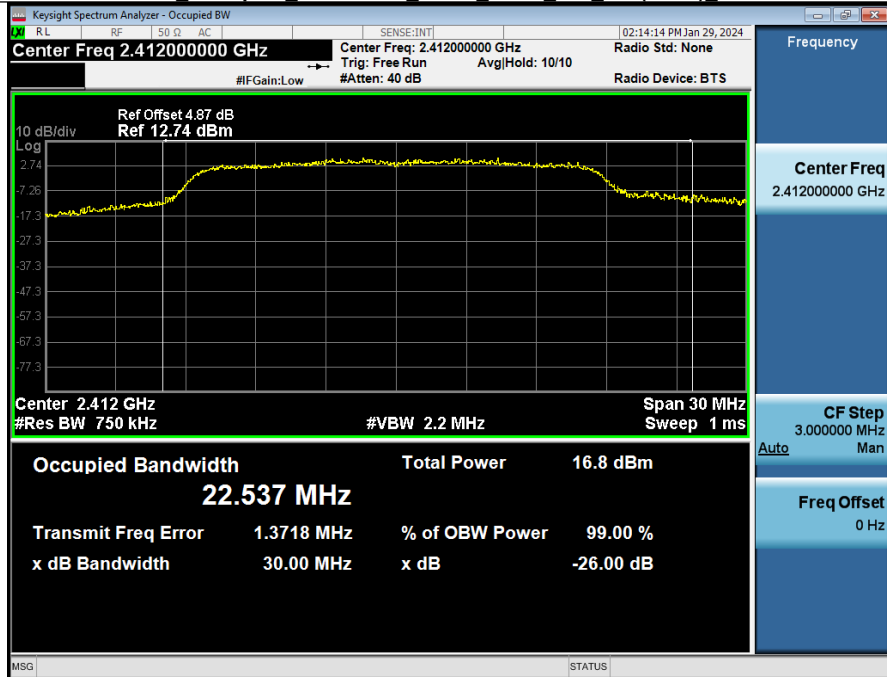
99% Occupied Bandwidth NVNT_ANT1_802_11g_2437



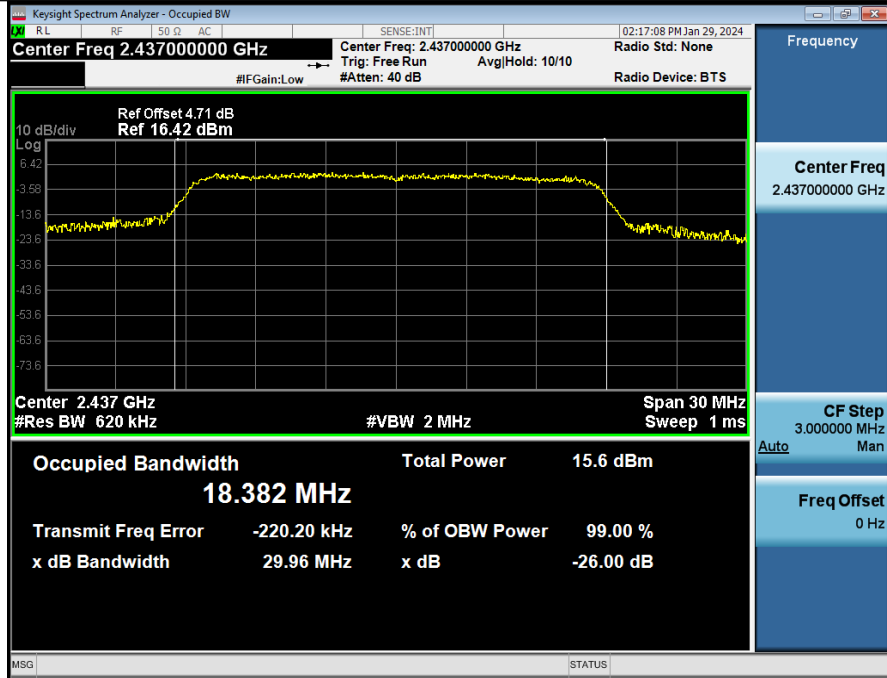
99% Occupied Bandwidth NVNT_ANT1_802_11g_2462



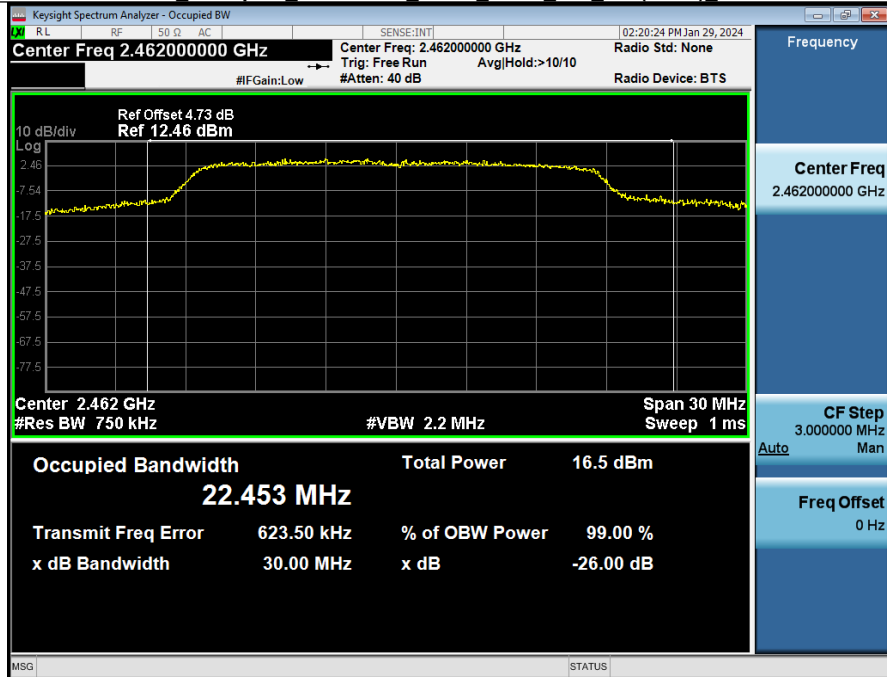
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2412



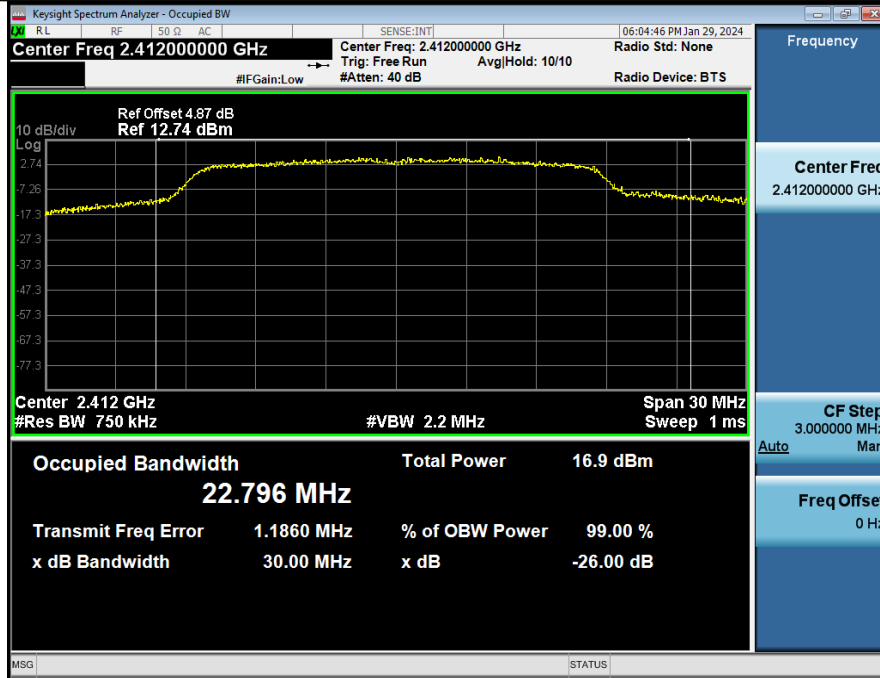
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2437



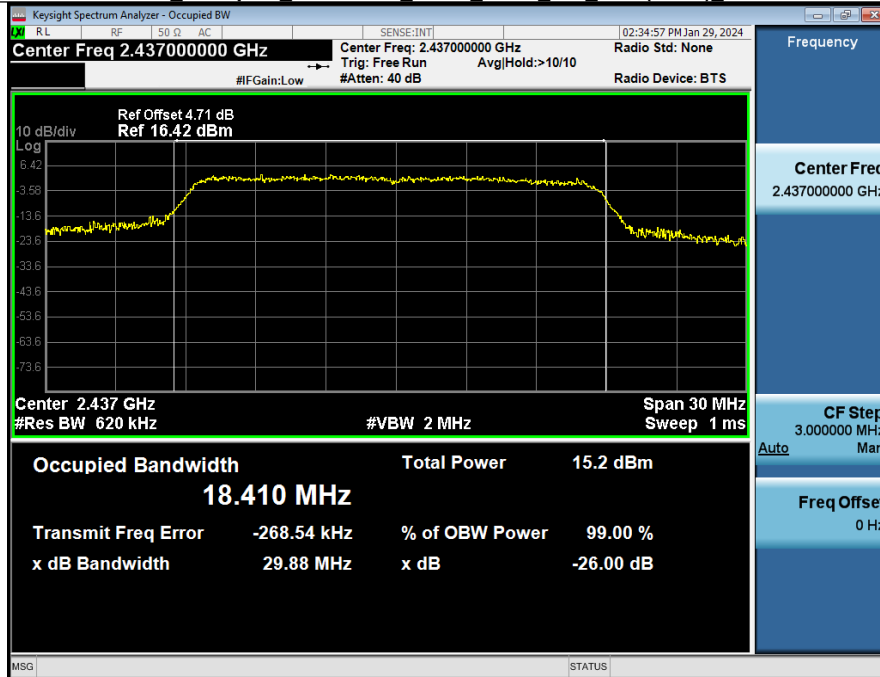
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT20)_2462



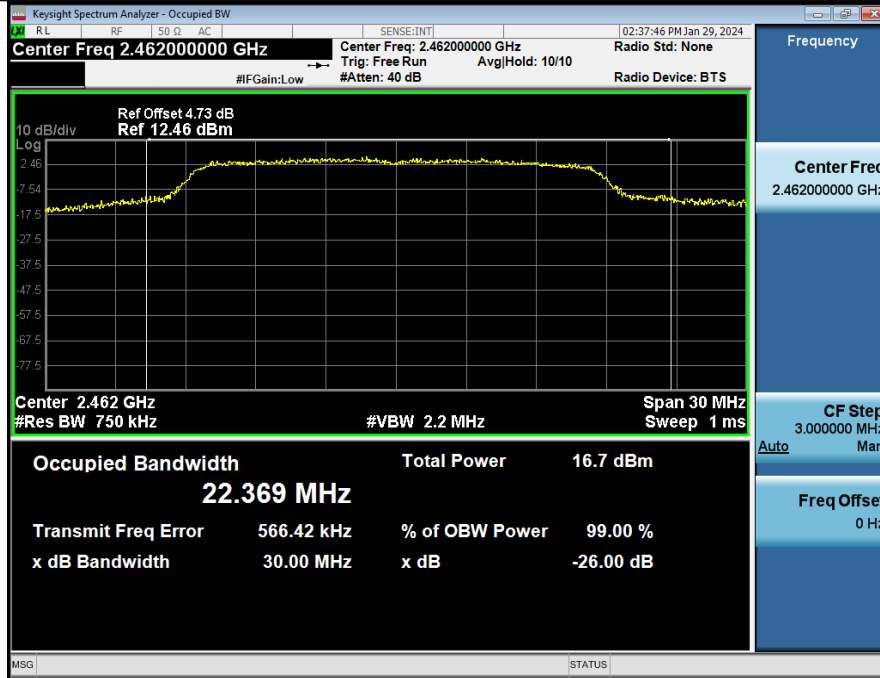
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



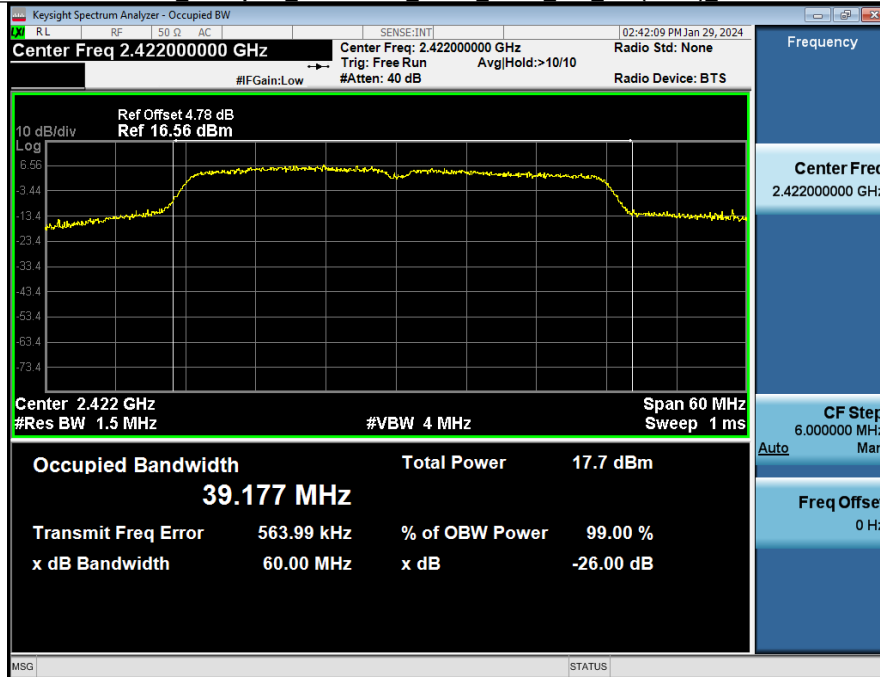
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2437



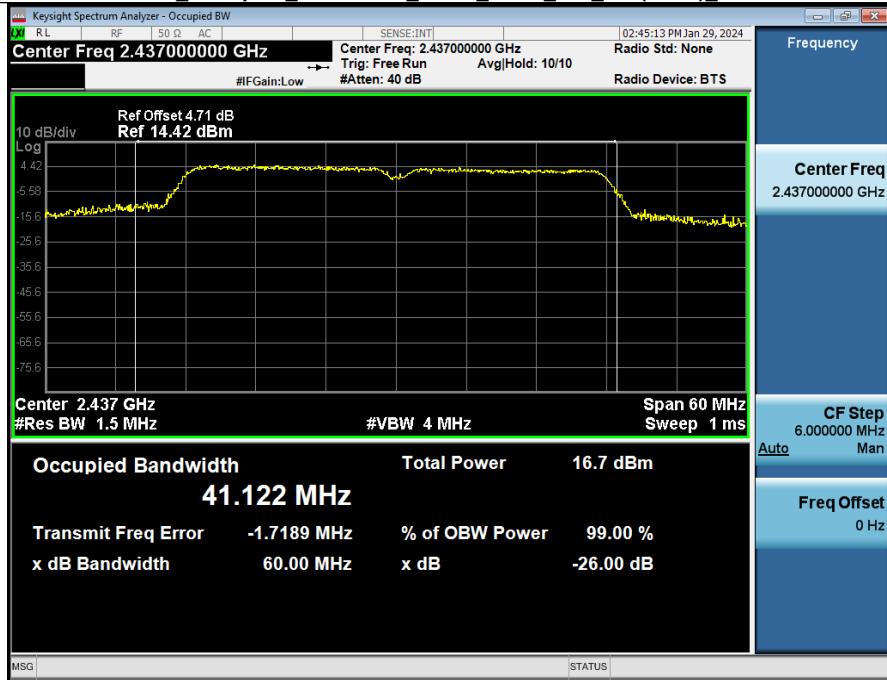
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2462



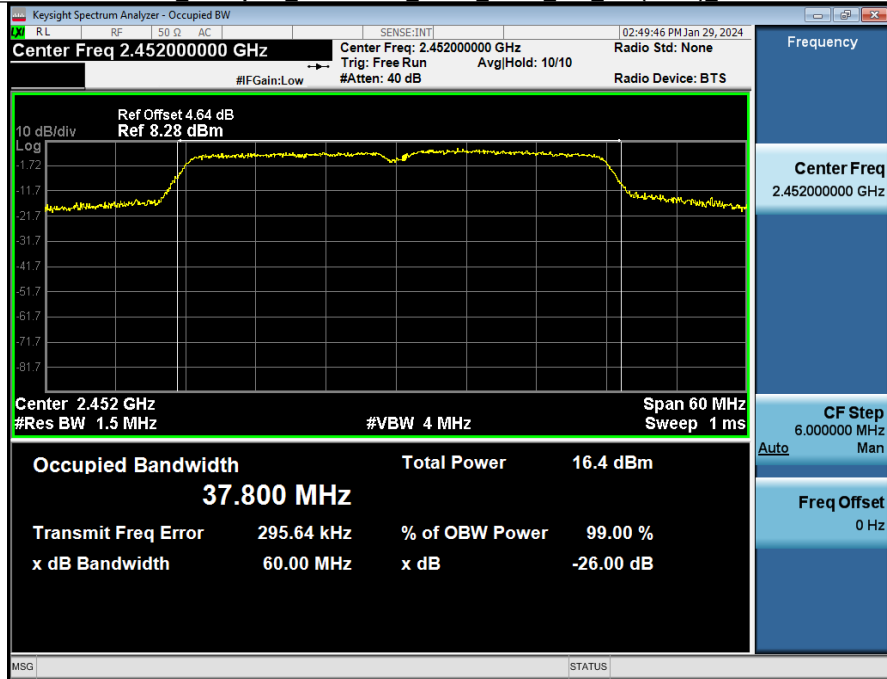
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2422



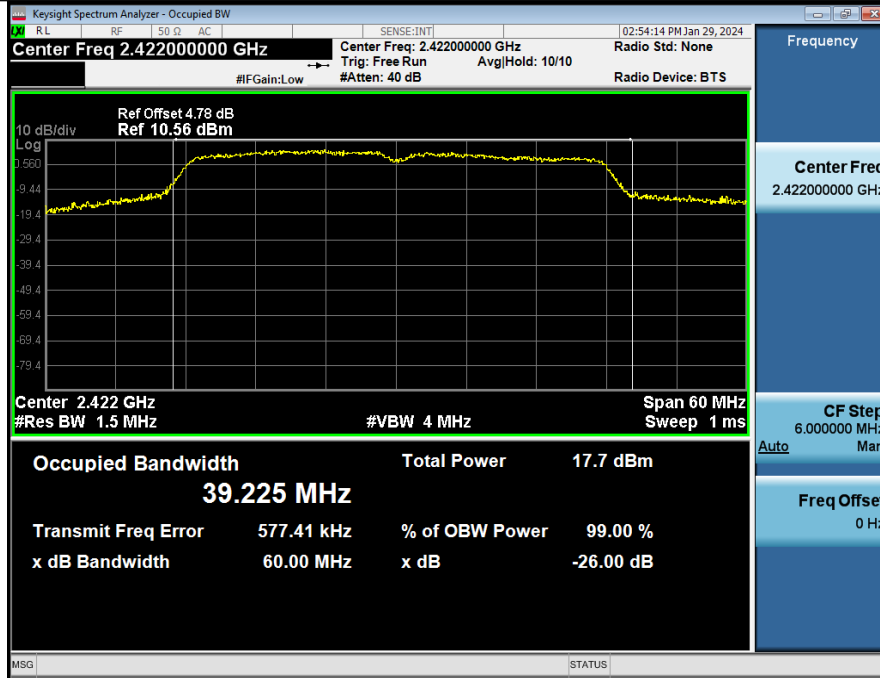
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2437



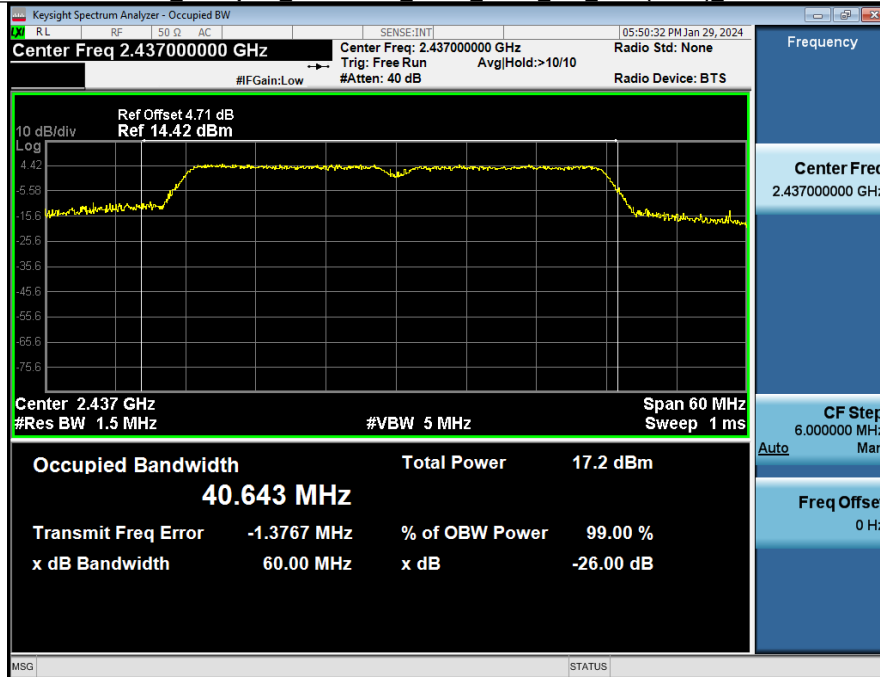
99% Occupied Bandwidth NVNT_ANT1_802_11n(HT40)_2452



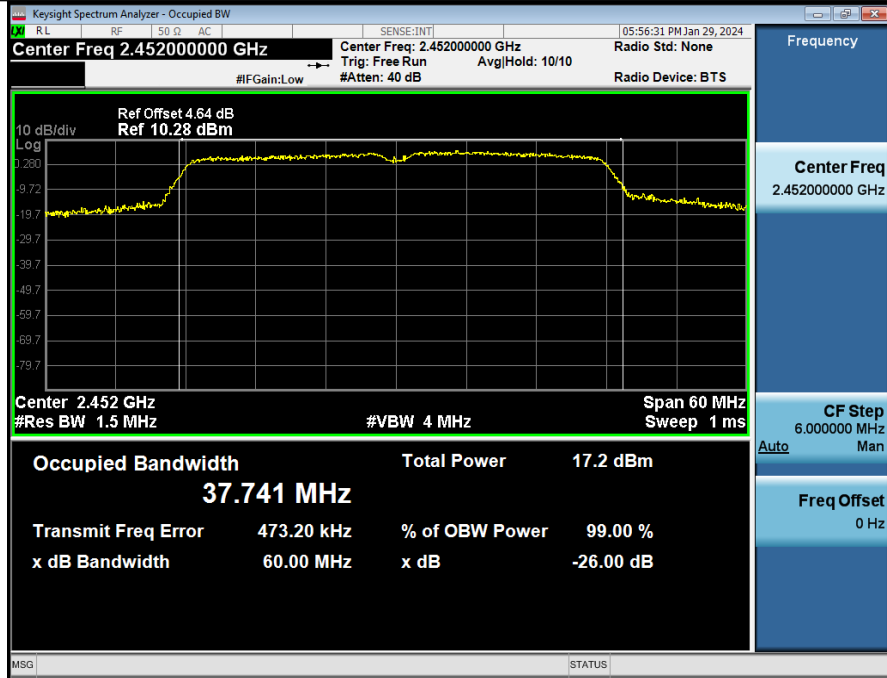
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

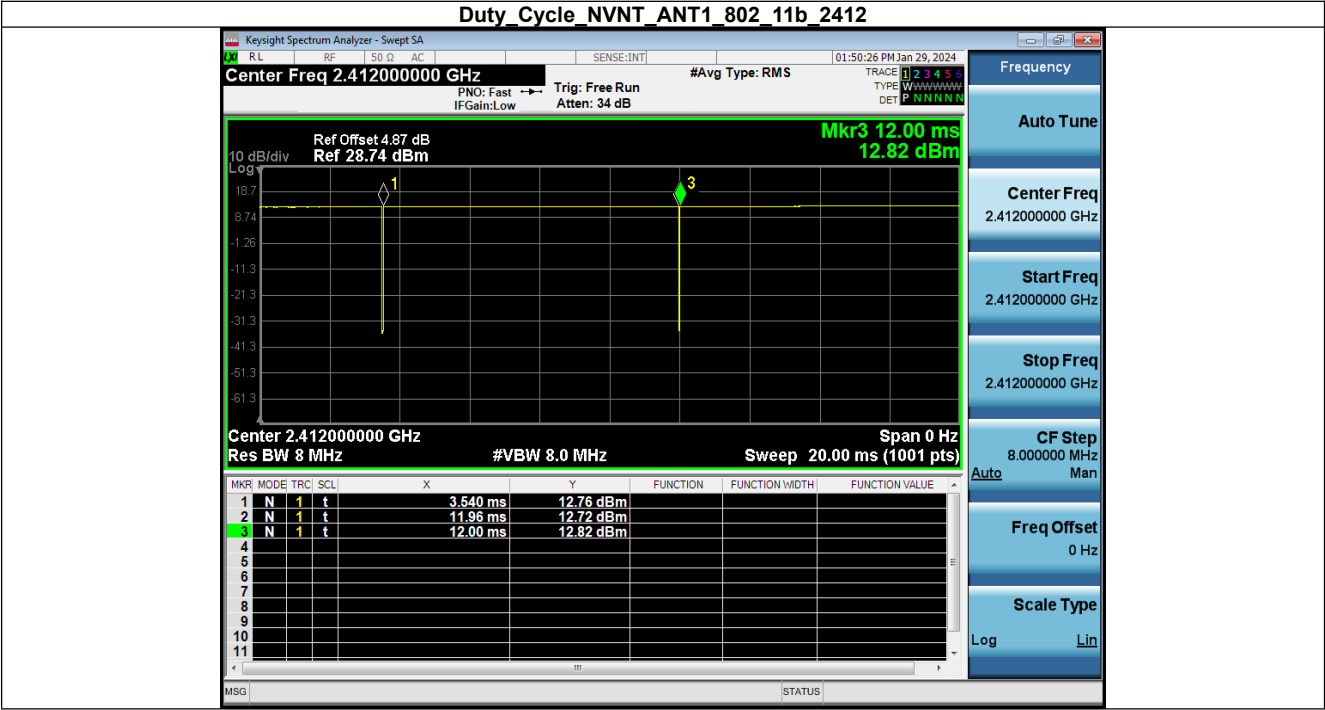


99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2452

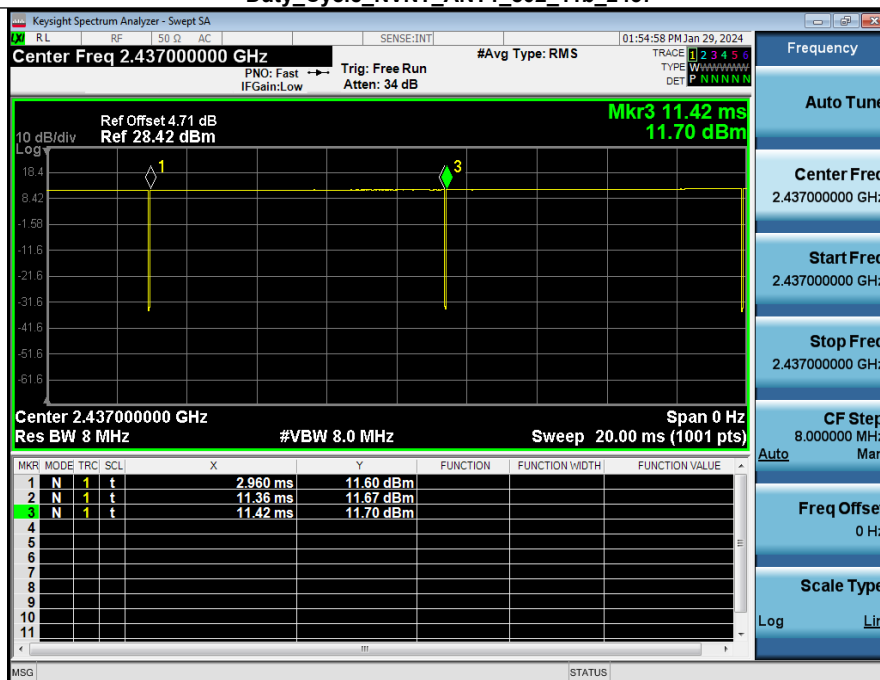


3. Duty Cycle

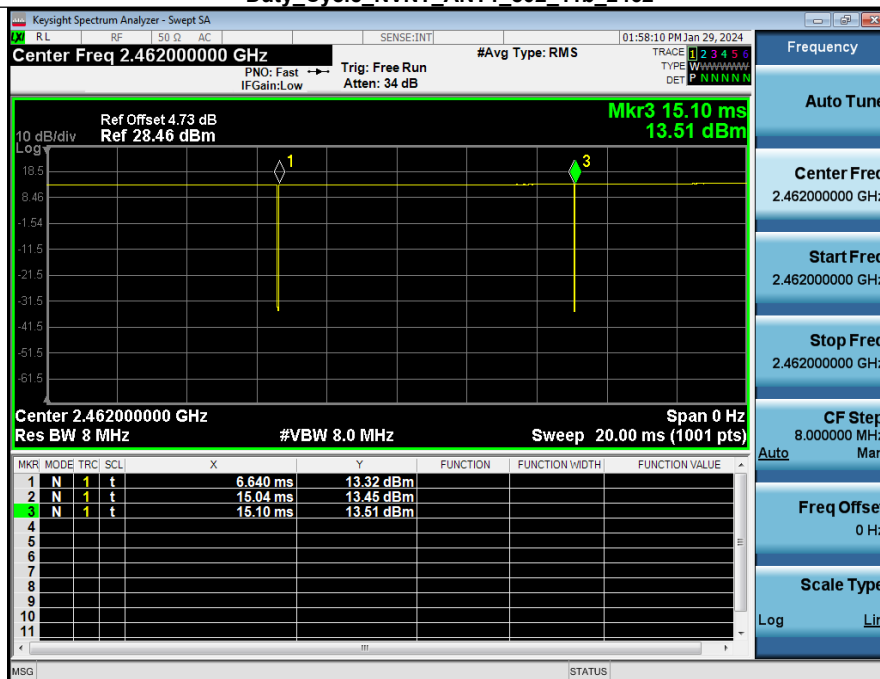
Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	99.76	0.00
NVNT	ANT1	802.11b	2437.00	99.53	0.00
NVNT	ANT1	802.11b	2462.00	99.53	0.00
NVNT	ANT1	802.11g	2412.00	97.26	0.12
NVNT	ANT1	802.11g	2437.00	97.26	0.12
NVNT	ANT1	802.11g	2462.00	97.26	0.12
NVNT	ANT1	802.11n(HT20)	2412.00	98.36	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	96.77	0.14
NVNT	ANT1	802.11n(HT20)	2462.00	96.77	0.14
NVNT	ANT1	802.11ax(HE20)	2412.00	96.77	0.14
NVNT	ANT1	802.11ax(HE20)	2437.00	96.77	0.14
NVNT	ANT1	802.11ax(HE20)	2462.00	98.36	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	96.88	0.14
NVNT	ANT1	802.11n(HT40)	2437.00	93.75	0.28
NVNT	ANT1	802.11n(HT40)	2452.00	96.88	0.14
NVNT	ANT1	802.11ax(HE40)	2422.00	93.75	0.28
NVNT	ANT1	802.11ax(HE40)	2437.00	93.75	0.28
NVNT	ANT1	802.11ax(HE40)	2452.00	96.88	0.14



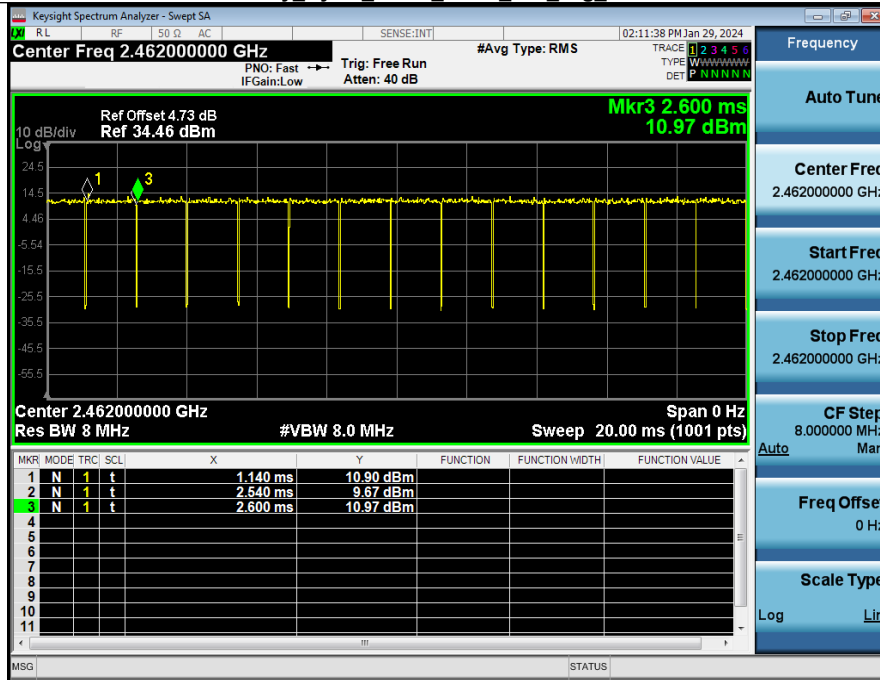
Duty Cycle NVNT_ANT1_802_11b_2437



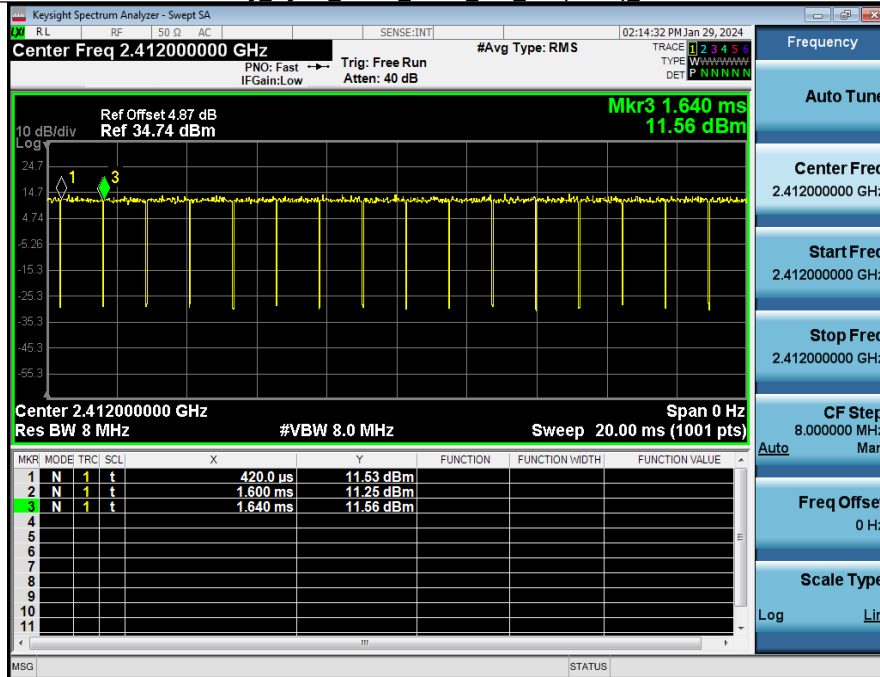
Duty Cycle NVNT_ANT1_802_11b_2462



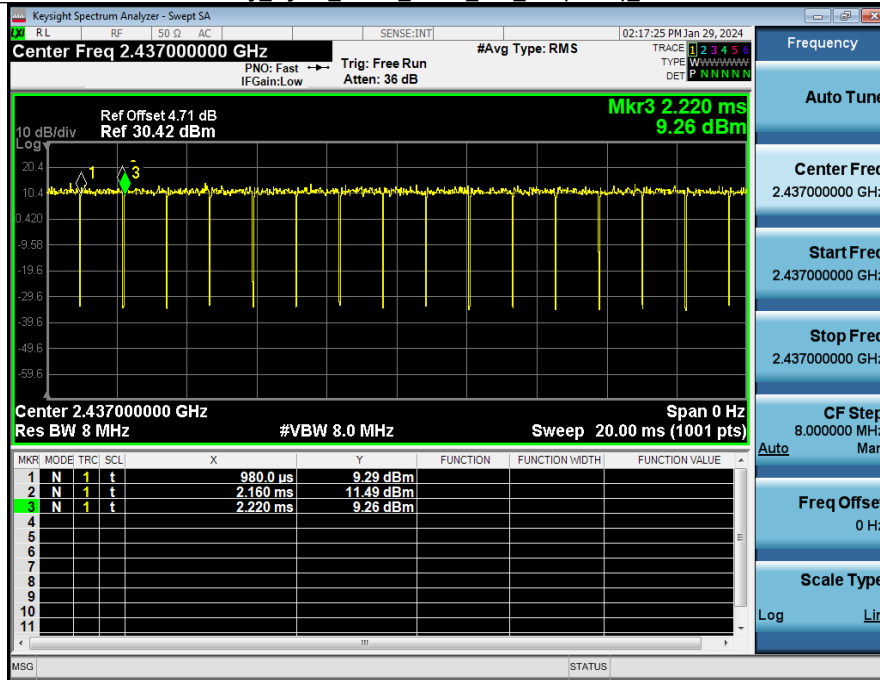
Duty Cycle NVNT ANT1_802_11g_2462



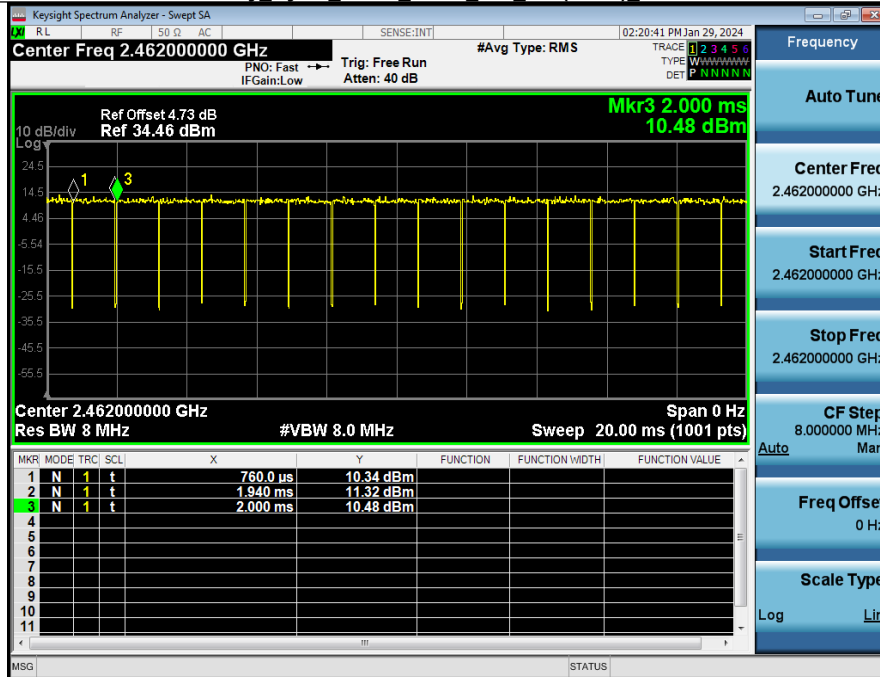
Duty Cycle NVNT ANT1_802_11n(HT20)_2412



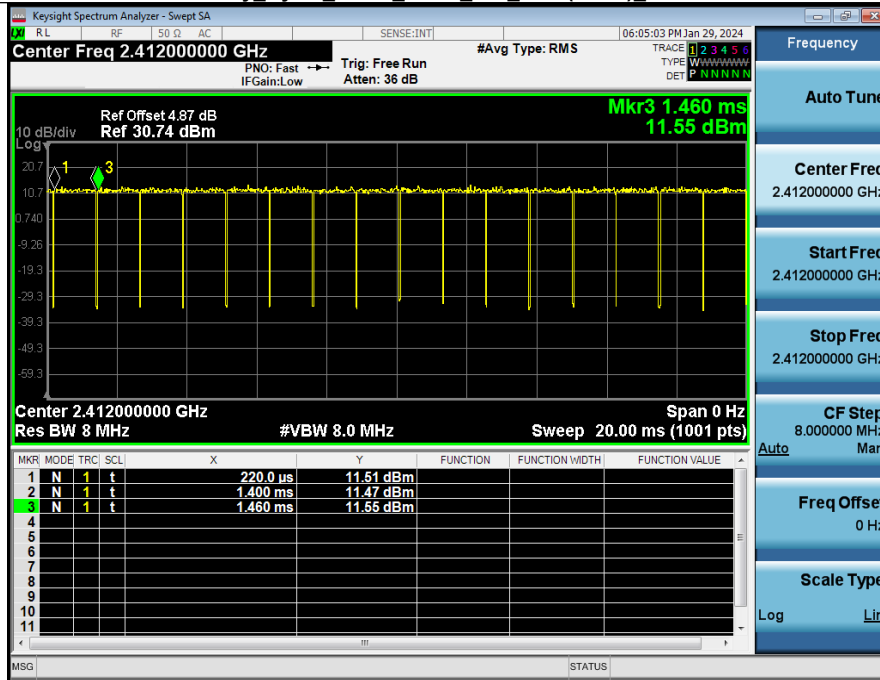
Duty Cycle NVNT_ANT1_802_11n(HT20)_2437



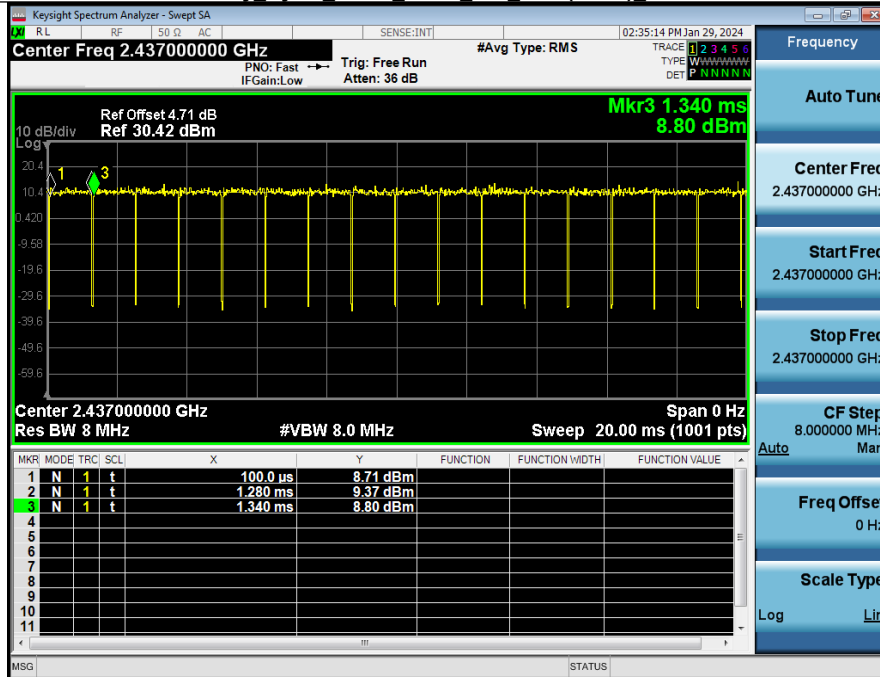
Duty Cycle NVNT_ANT1_802_11n(HT20)_2462



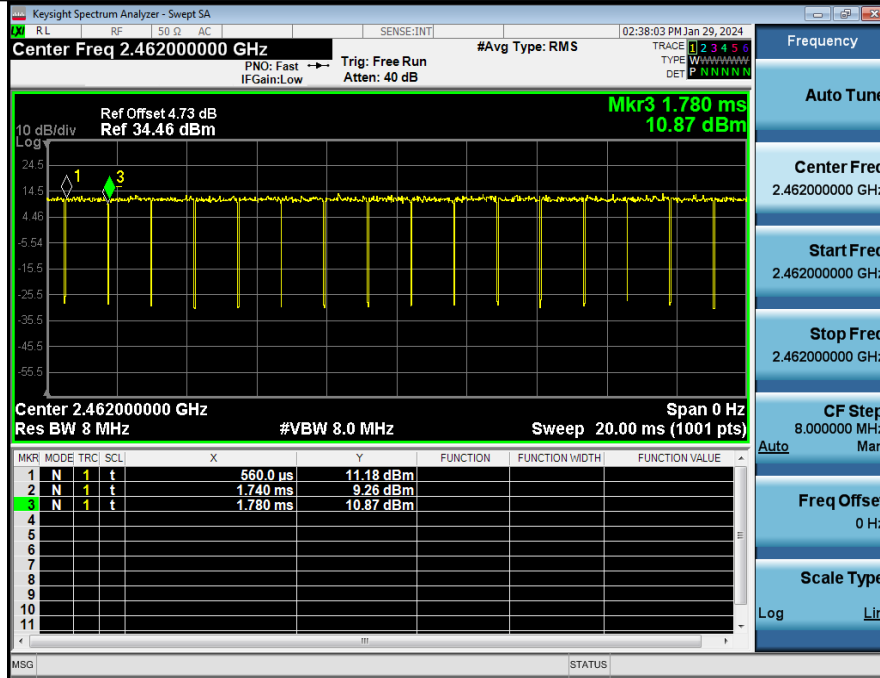
Duty Cycle NVNT_ANT1_802_11ax(HE20)_2412



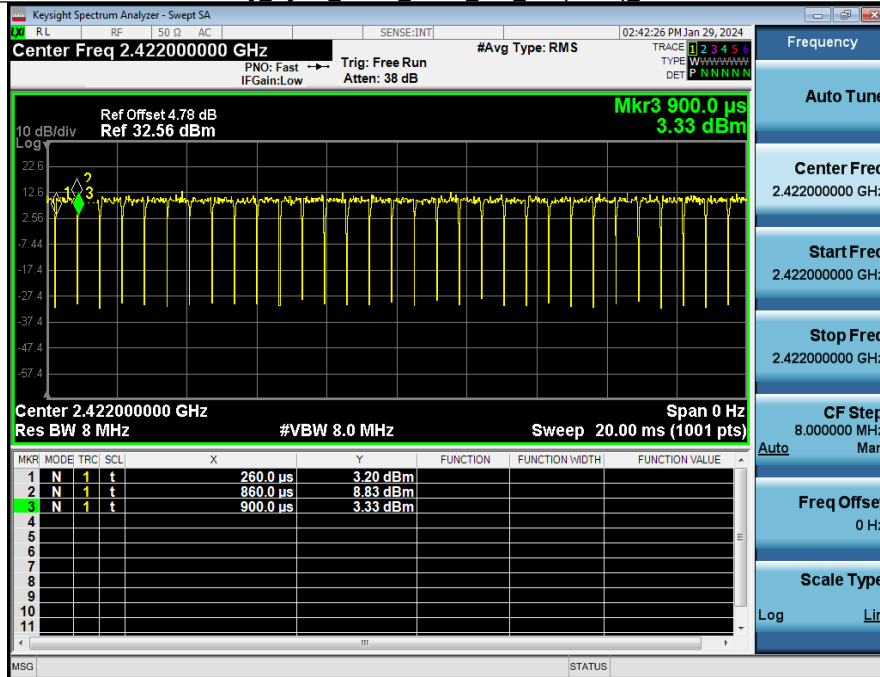
Duty Cycle NVNT_ANT1_802_11ax(HE20)_2437



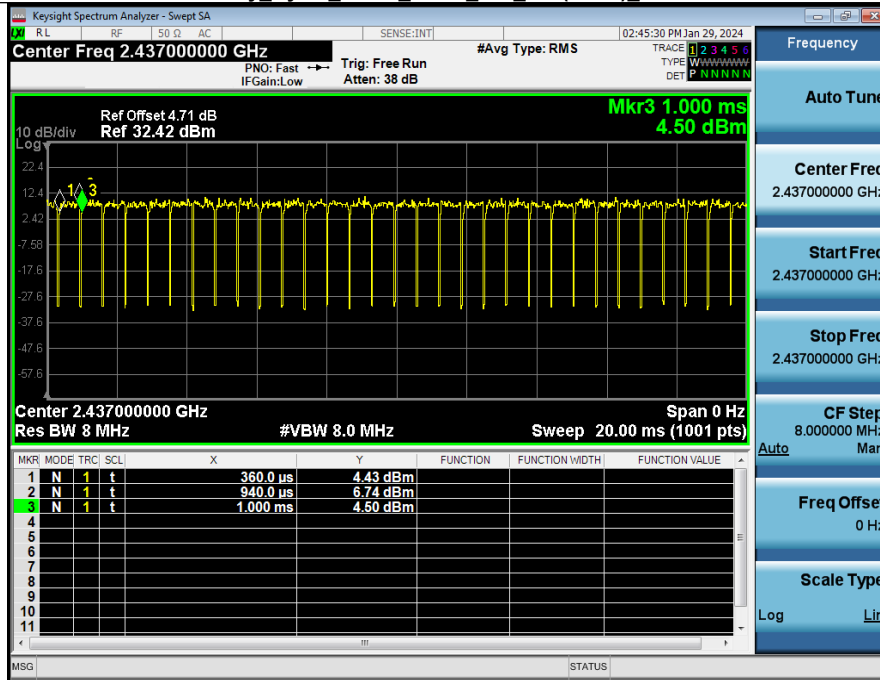
Duty Cycle NVNT_ANT1_802_11ax(HE20)_2462



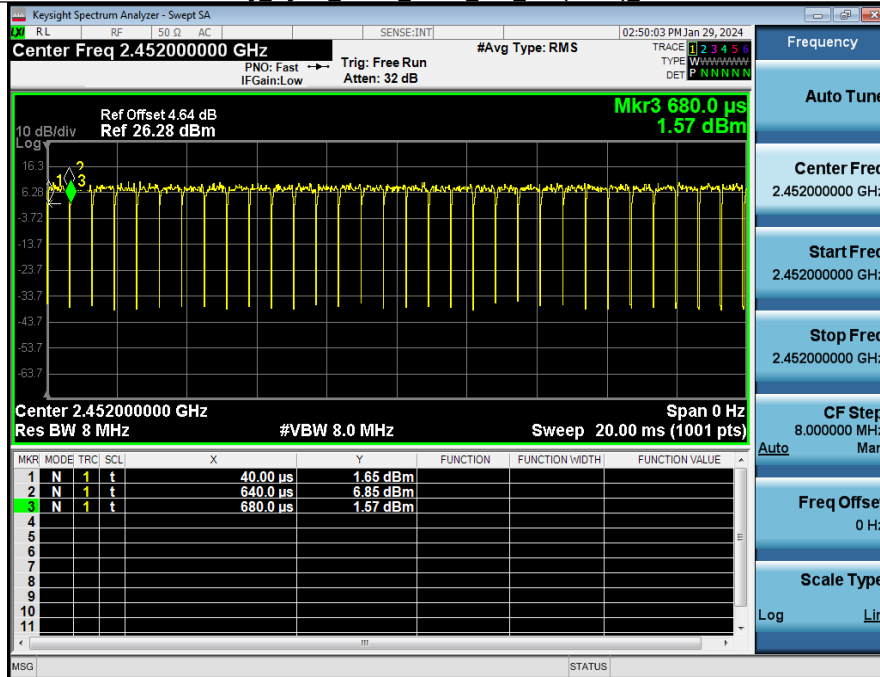
Duty Cycle NVNT_ANT1_802_11n(HT40)_2422



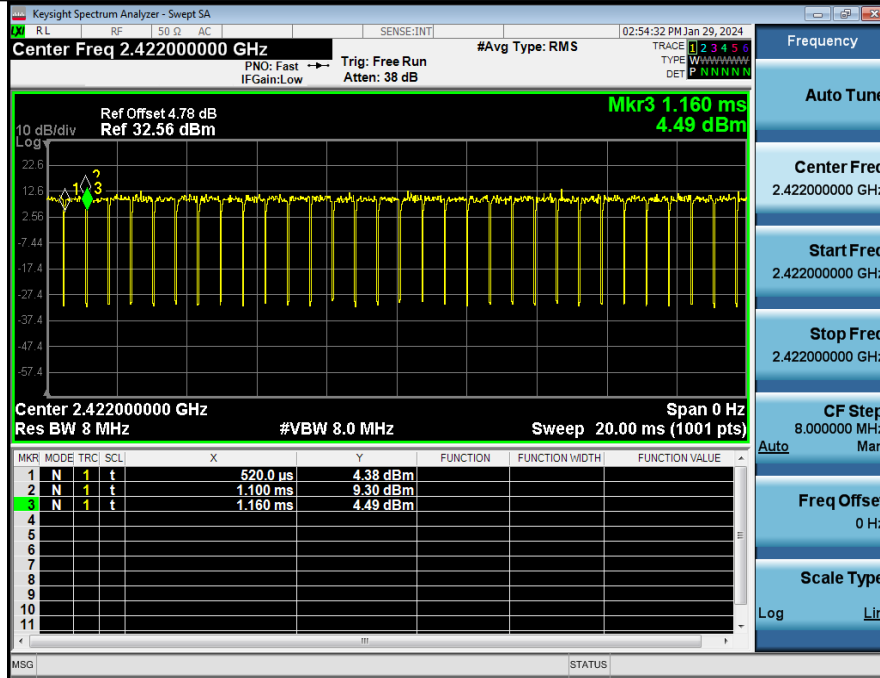
Duty Cycle NVNT_ANT1_802_11n(HT40)_2437



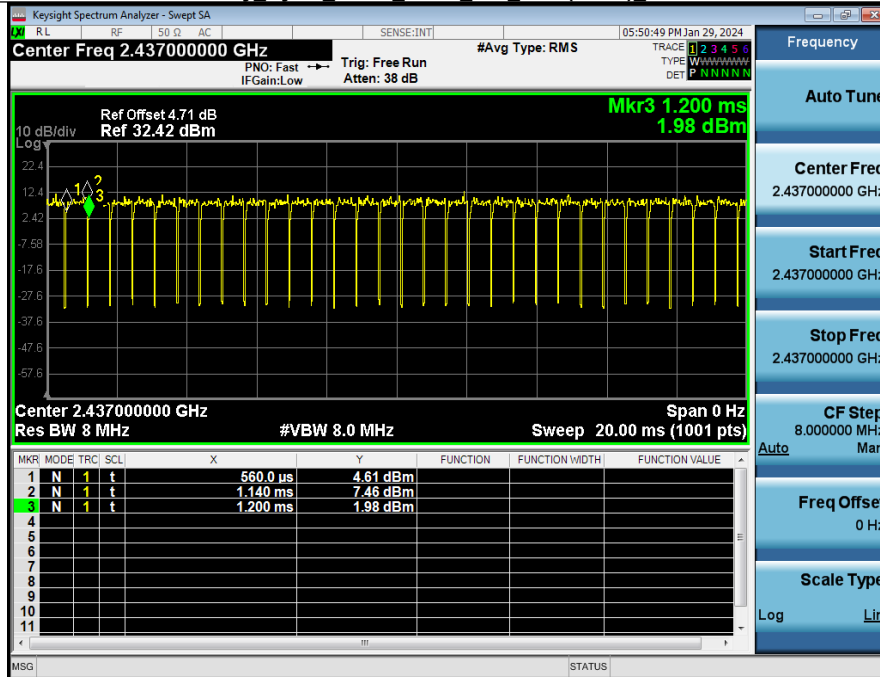
Duty Cycle NVNT_ANT1_802_11n(HT40)_2452



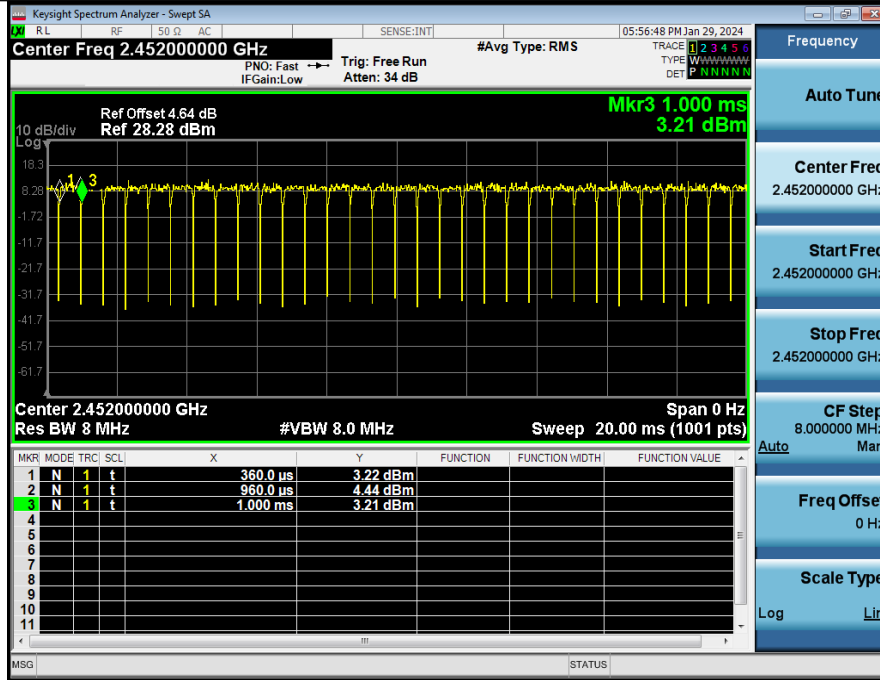
Duty Cycle NVNT_ANT1_802_11ax(HE40)_2422



Duty Cycle NVNT_ANT1_802_11ax(HE40)_2437



Duty Cycle NVNT_ANT1_802_11ax(HE40)_2452



5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3k Hz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	-3.33	-10.00	-13.32	8	Pass
NVNT	ANT1	802.11b	2437.00	-4.50	-10.00	-14.50	8	Pass
NVNT	ANT1	802.11b	2462.00	-3.31	-10.00	-13.31	8	Pass
NVNT	ANT1	802.11g	2412.00	-5.91	-10.00	-15.91	8	Pass
NVNT	ANT1	802.11g	2437.00	-8.78	-10.00	-18.78	8	Pass
NVNT	ANT1	802.11g	2462.00	-6.84	-10.00	-16.84	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-6.64	-10.00	-16.64	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-8.50	-10.00	-18.50	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-7.10	-10.00	-17.10	8	Pass
NVNT	ANT1	802.11n(HT40)	2412.00	-6.02	-10.00	-16.02	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-8.88	-10.00	-18.88	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-6.94	-10.00	-16.94	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-9.50	-10.00	-19.50	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-10.54	-10.00	-20.54	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-11.28	-10.00	-21.28	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-9.41	-10.00	-19.41	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-10.32	-10.00	-20.32	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-10.53	-10.00	-20.53	8	Pass



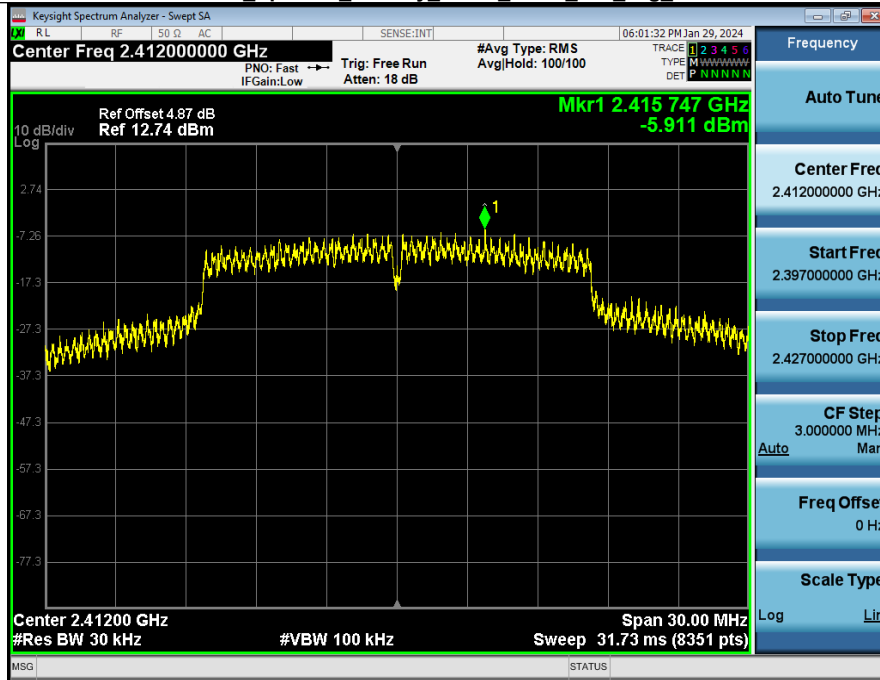
Power Spectral Density NVNT_ANT1_802_11b_2437



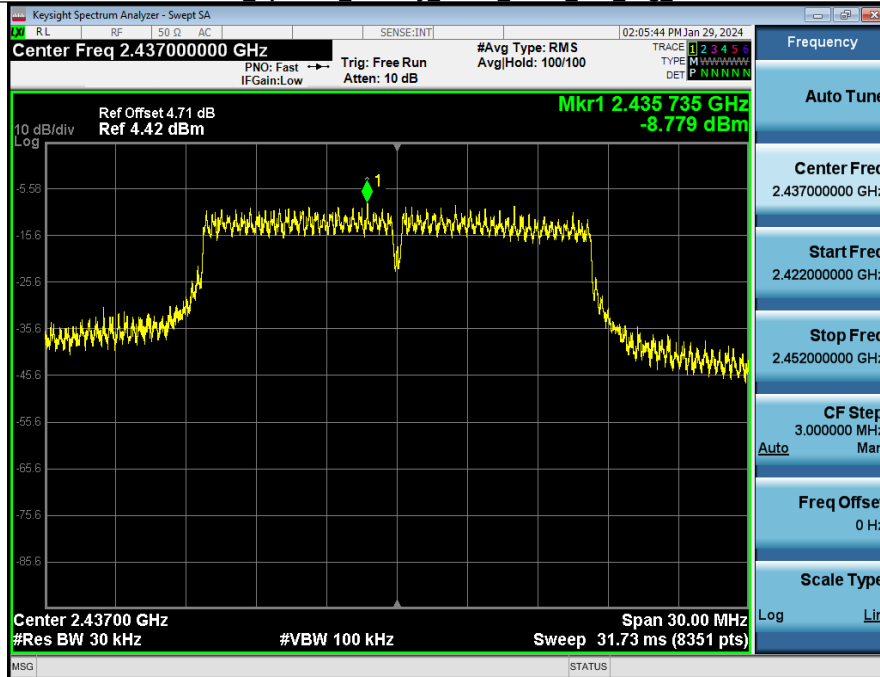
Power Spectral Density NVNT_ANT1_802_11b_2462



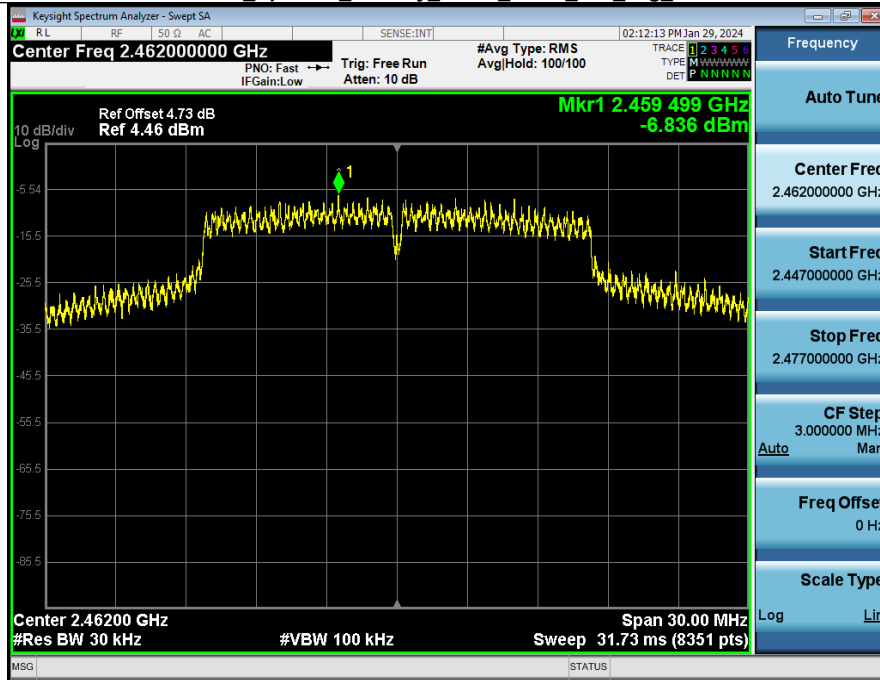
Power Spectral Density NVNT_ANT1_802_11g_2412



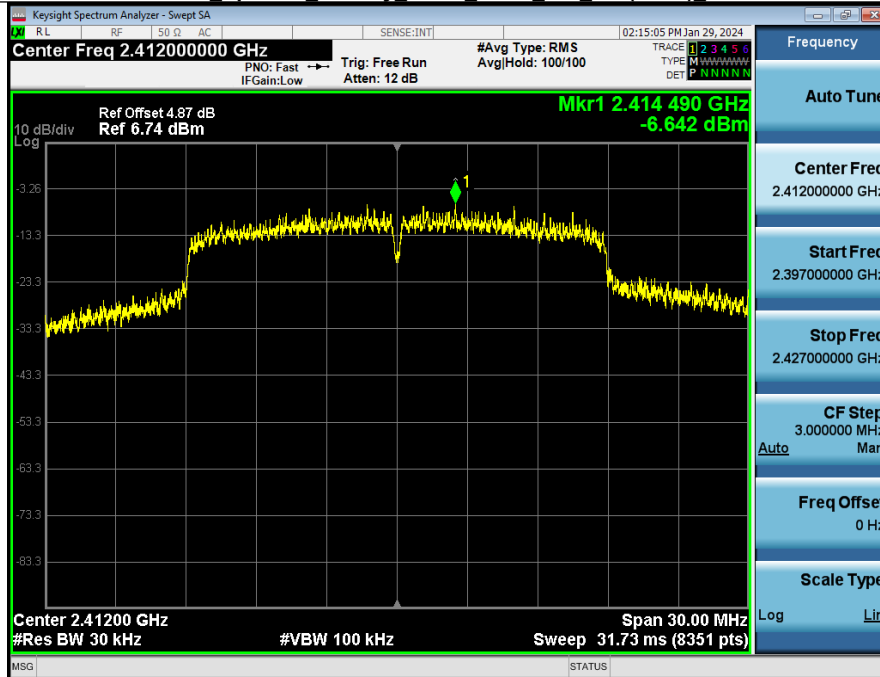
Power Spectral Density NVNT_ANT1_802_11g_2437



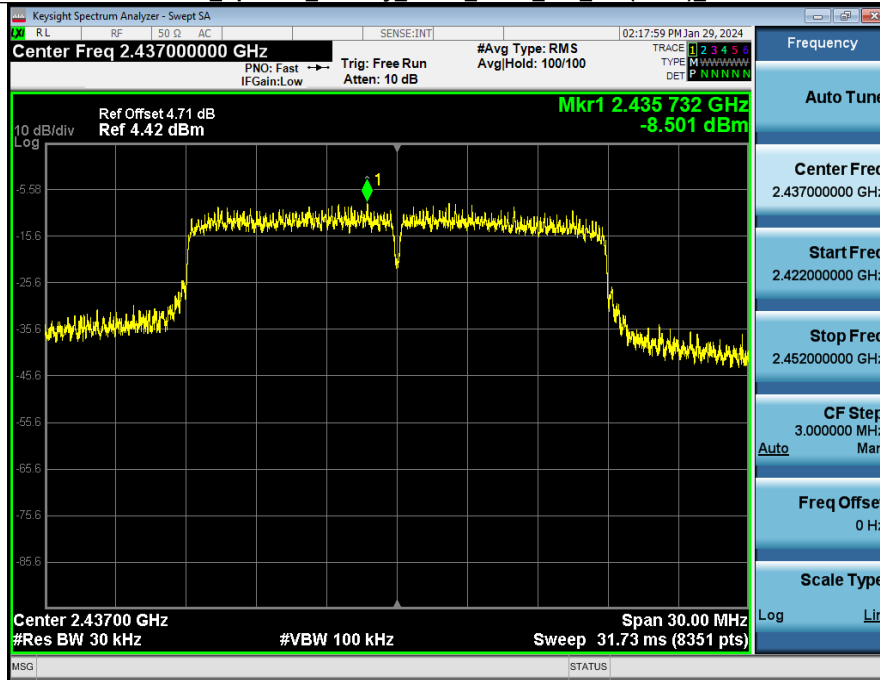
Power Spectral Density NVNT_ANT1_802_11g_2462



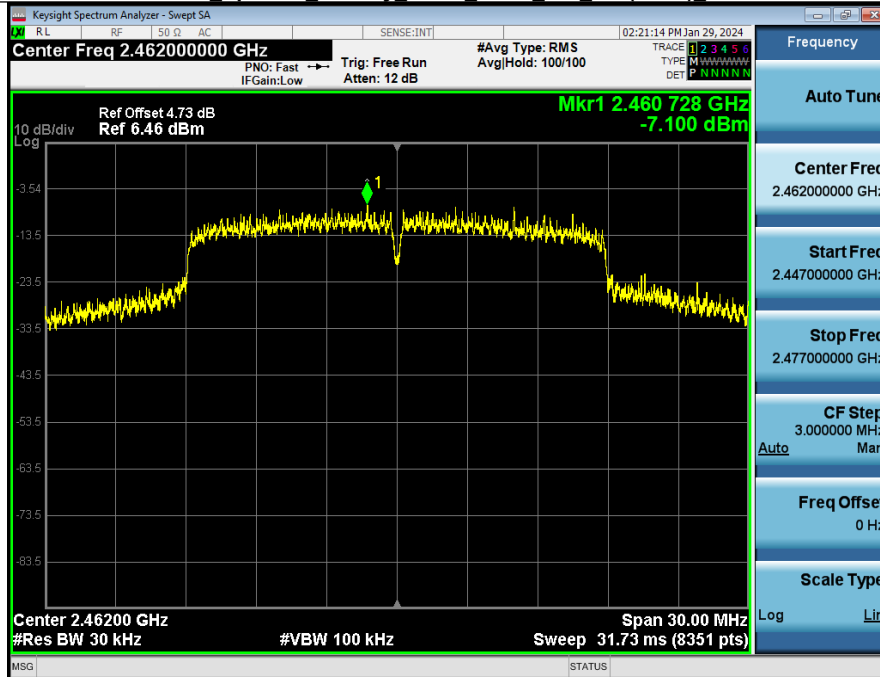
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2412



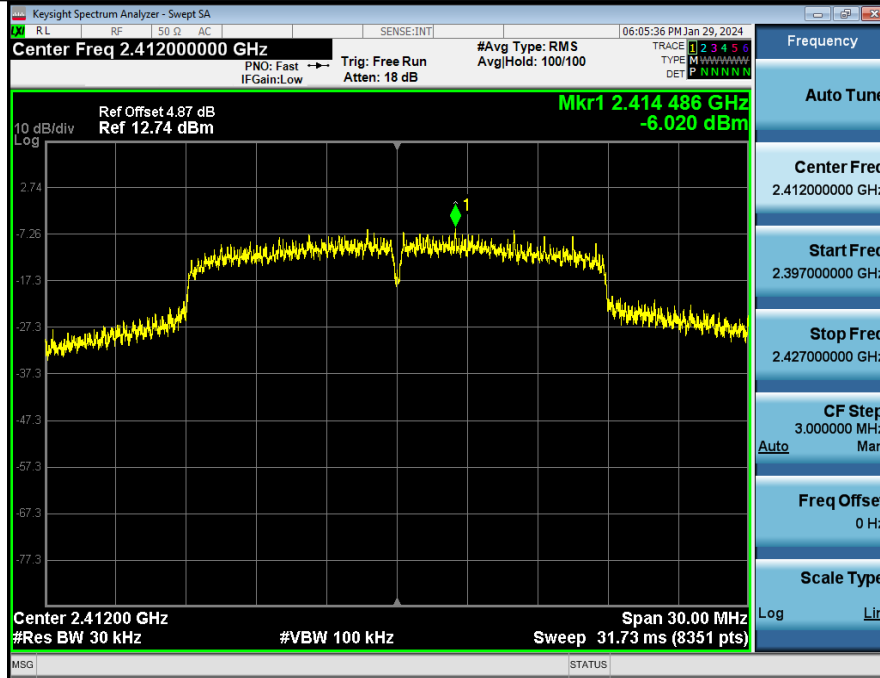
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2437



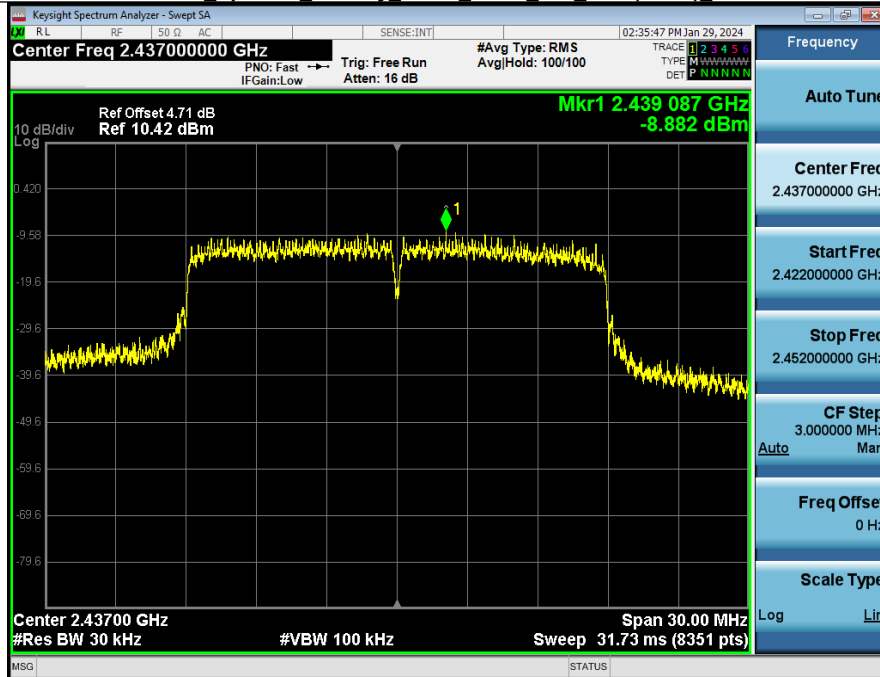
Power Spectral Density NVNT_ANT1_802_11n(HT20)_2462



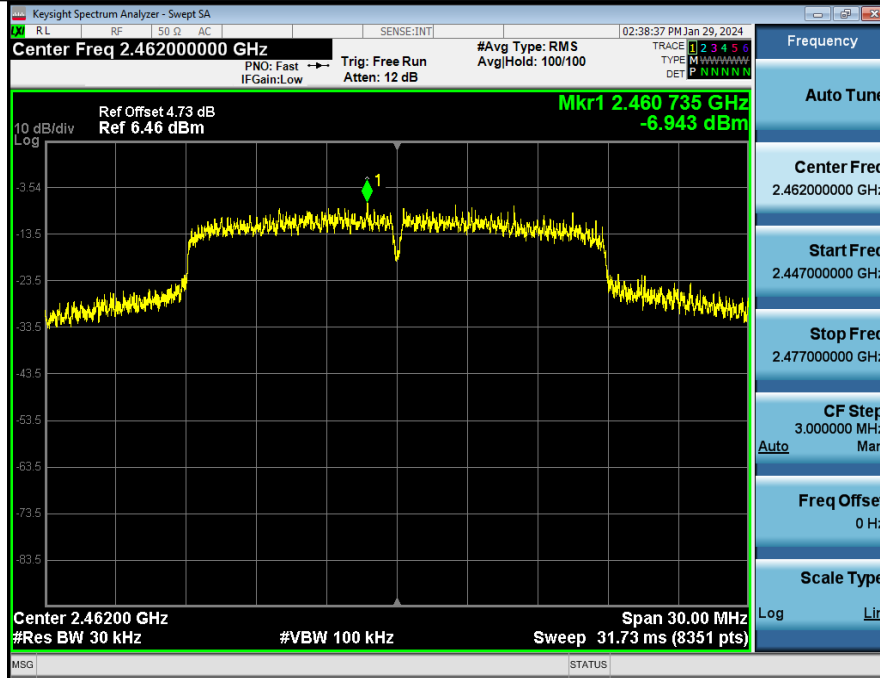
Power Spectral Density NVNT_ANT1 802_11ax(HE20) 2412



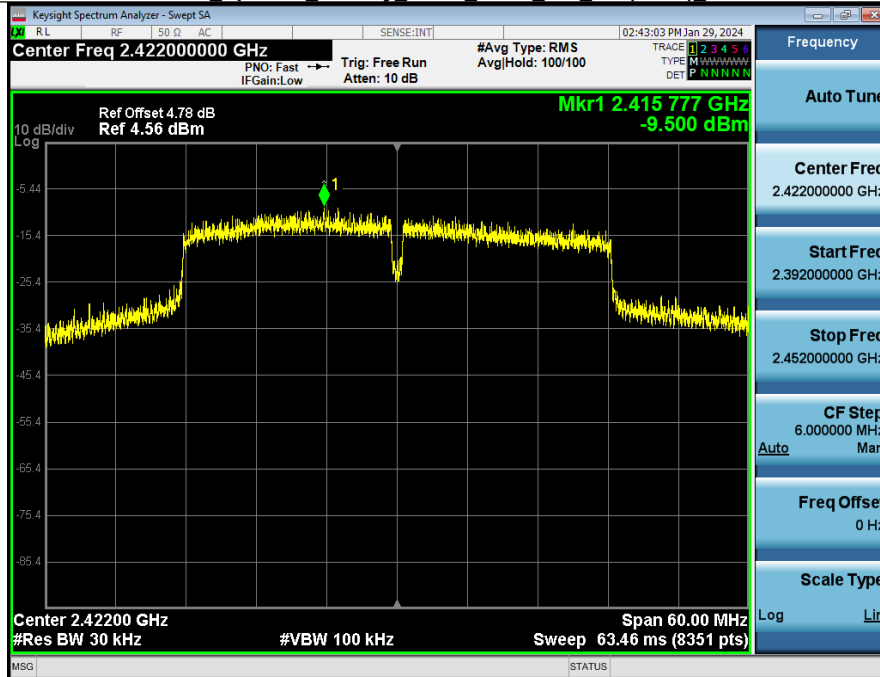
Power Spectral Density NVNT ANT1 802_11ax(HE20) 2437



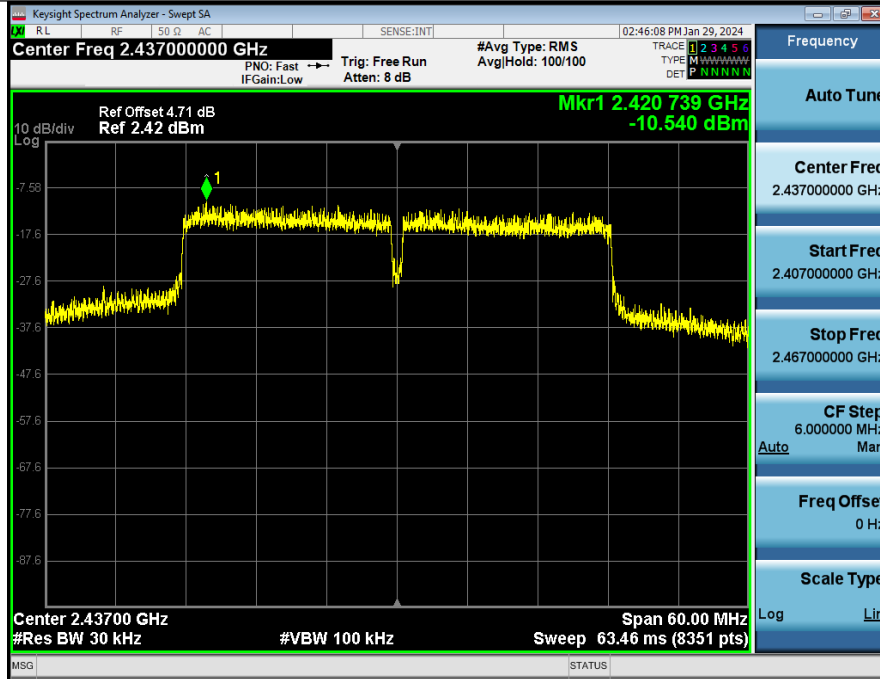
Power Spectral Density NVNT_ANT1_802_11ax(HE20)_2462



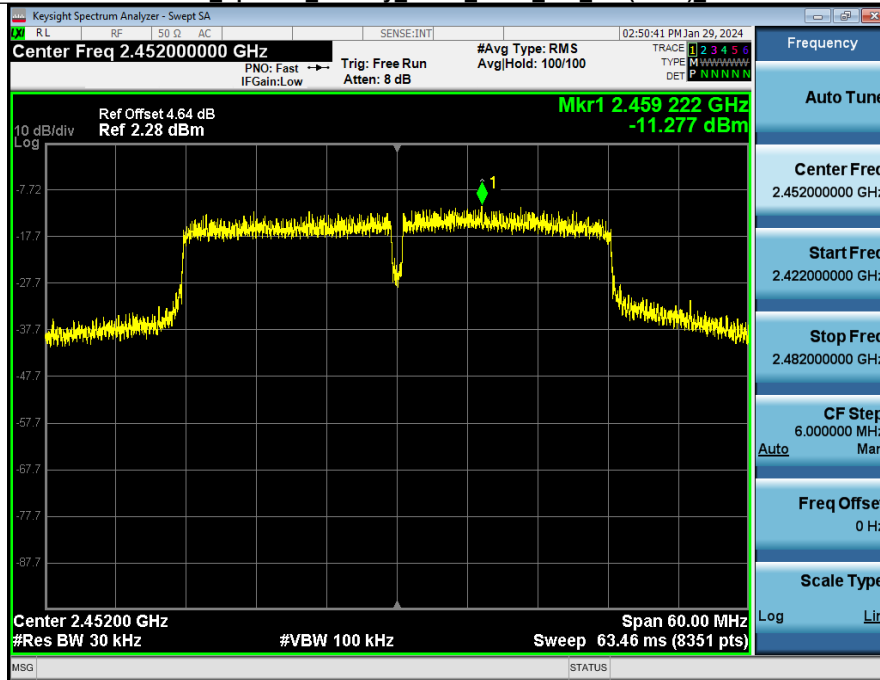
Power Spectral Density NVNT_ANT1_802_11n(HT40)_2422



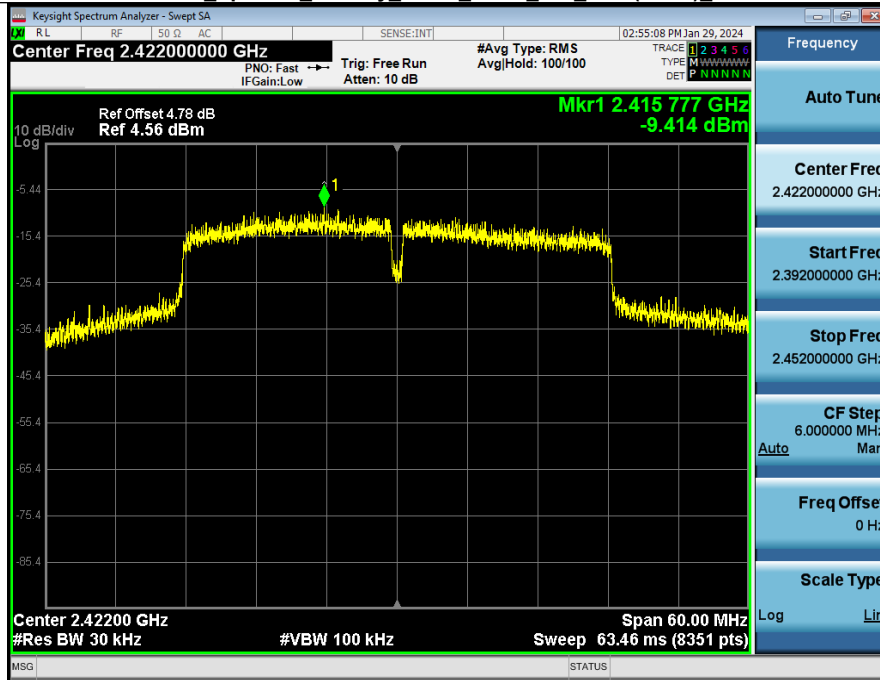
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2437



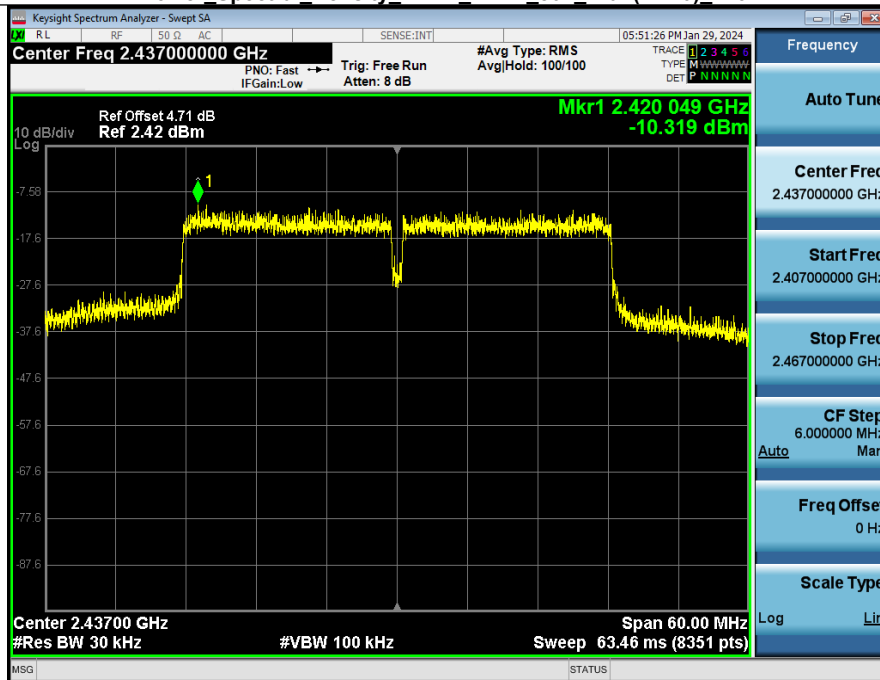
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2452



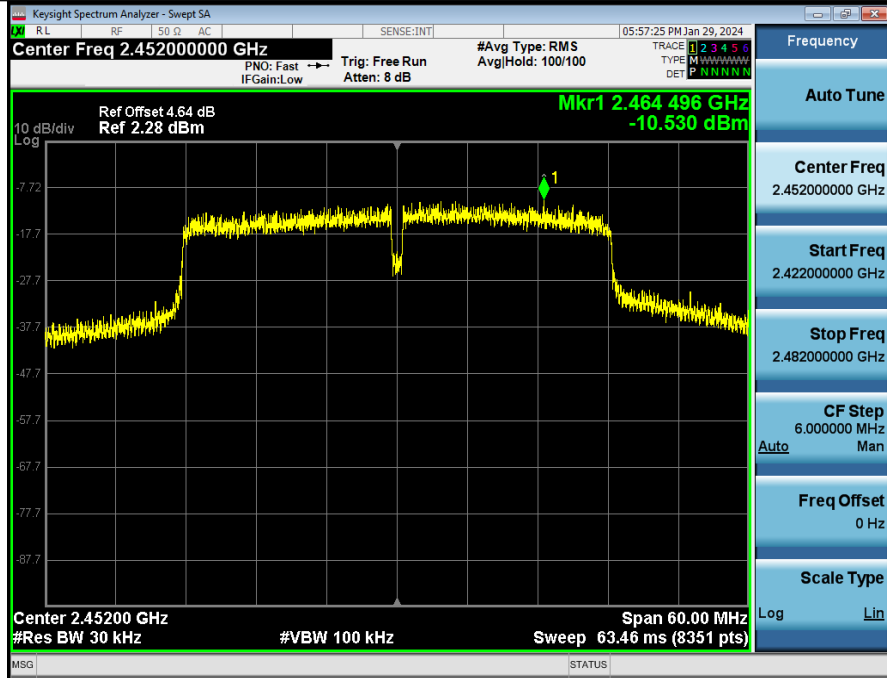
Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2422



Power Spectral Density NVNT ANT1_802_11ax(HE40)_2437

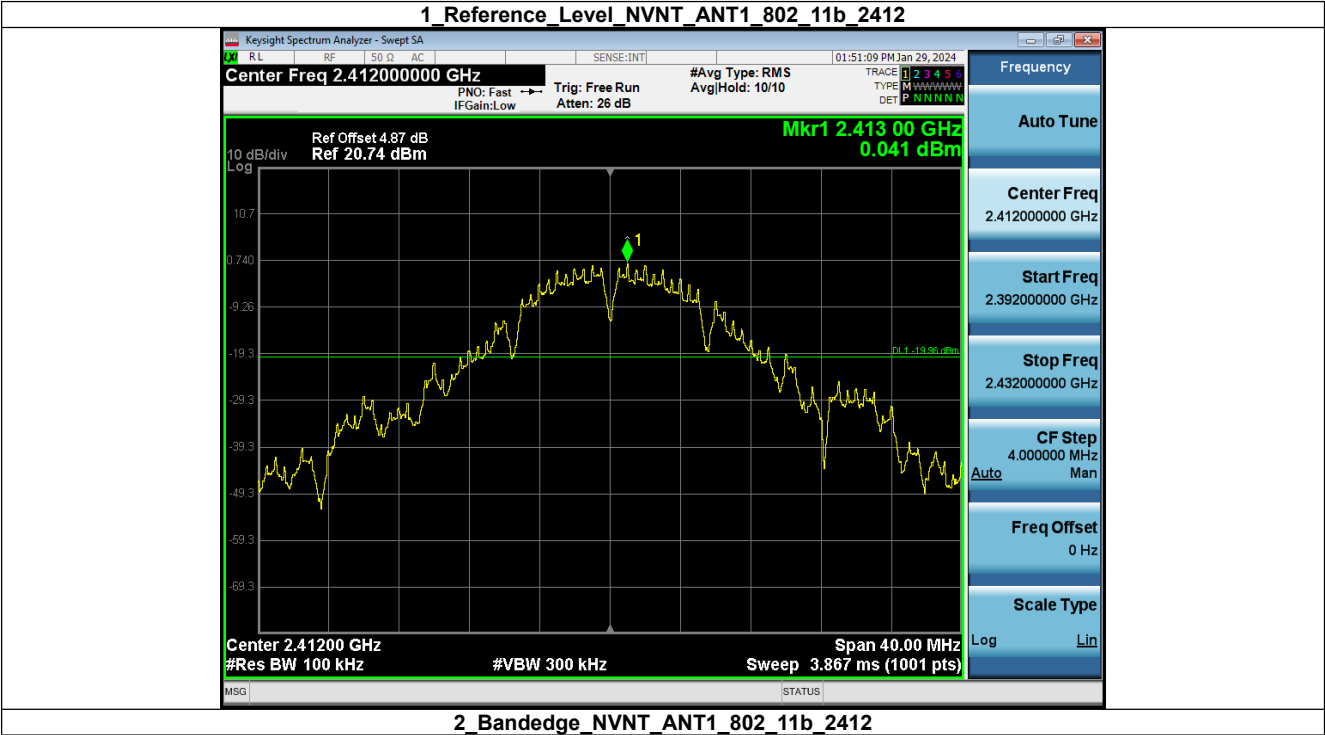


Power Spectral Density NVNT_ANT1_802_11ax(HE40)_2452



6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.032	-28.123	-19.959	Pass
NVNT	ANT1	802.11b	2462.00	2486.032	-46.124	-20.144	Pass
NVNT	ANT1	802.11g	2412.00	2399.712	-26.347	-23.006	Pass
NVNT	ANT1	802.11g	2462.00	2483.872	-33.942	-21.429	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.712	-21.701	-20.951	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2484.208	-31.011	-21.516	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2399.488	-23.359	-21.575	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2483.968	-29.657	-21.322	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2395.800	-24.184	-23.889	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2484.496	-30.672	-25.304	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2394.480	-24.507	-23.707	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2484.496	-28.286	-24.953	Pass





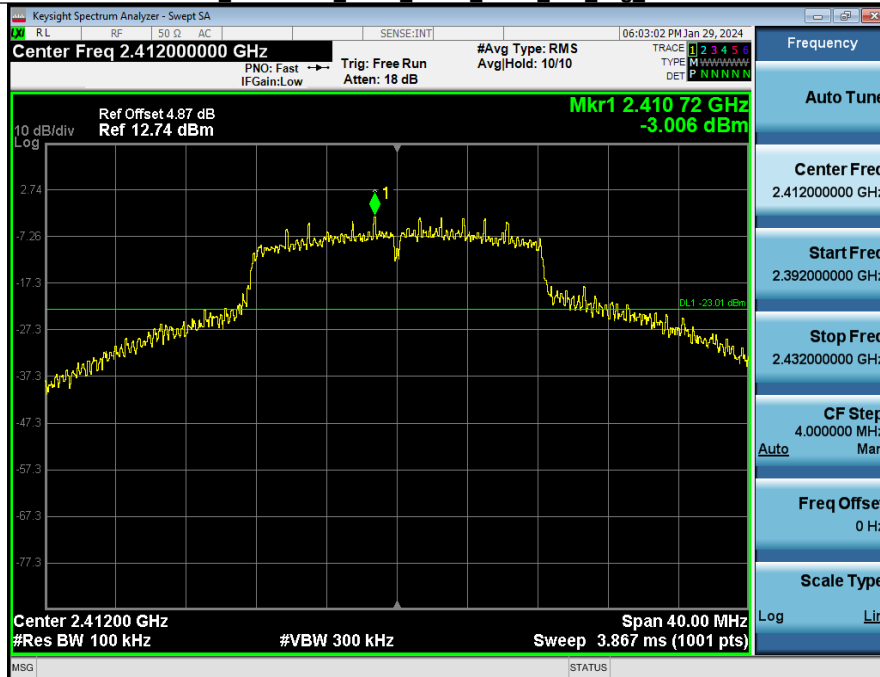
1 Reference Level NVNT_ANT1_802_11b_2462



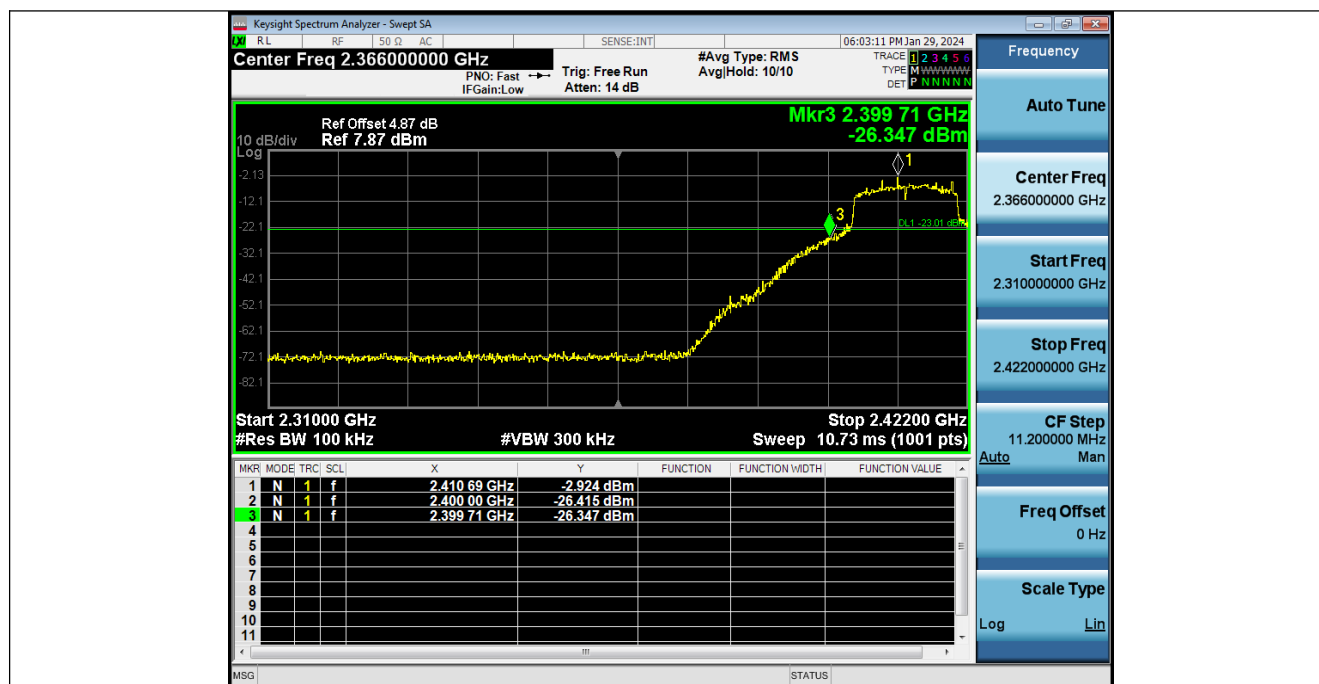
2_Bandedge_NVNT_ANT1_802_11b_2462



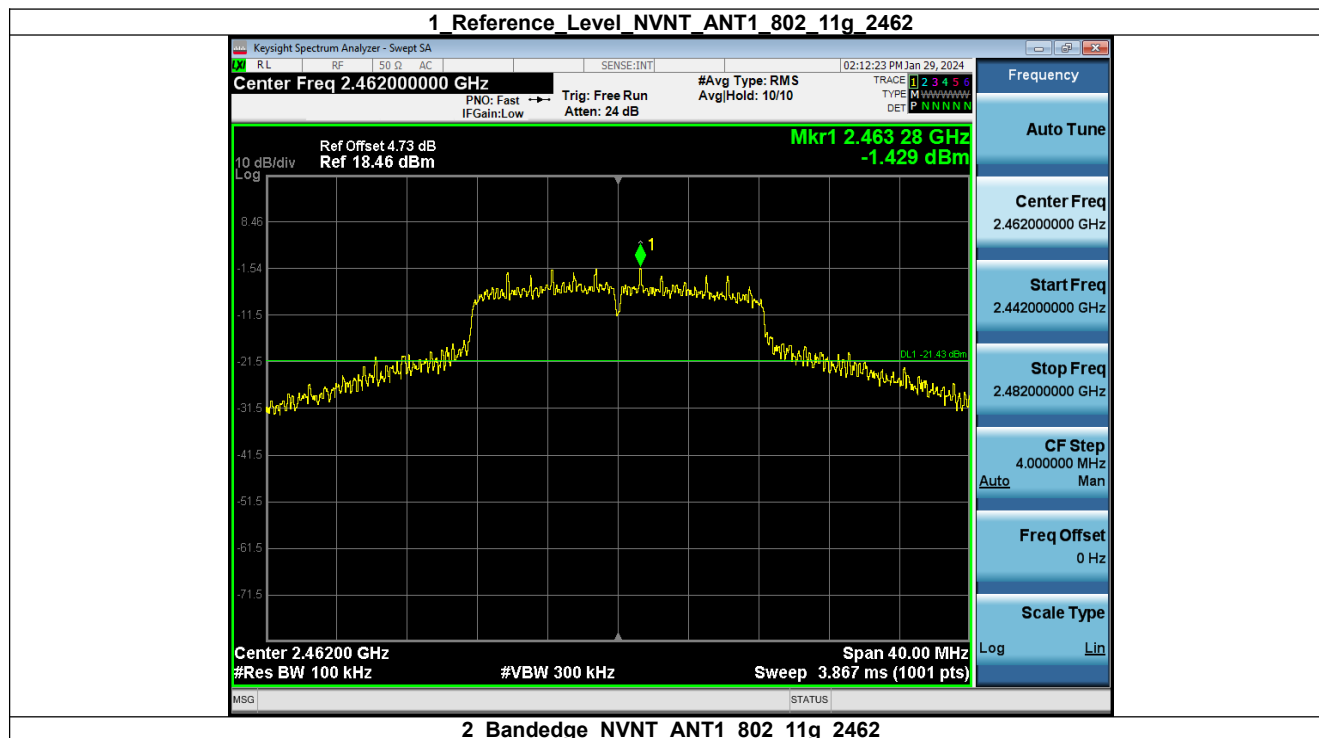
1 Reference Level NVNT_ANT1_802_11g_2412



2 Bandedge_NVNT_ANT1_802_11g_2412



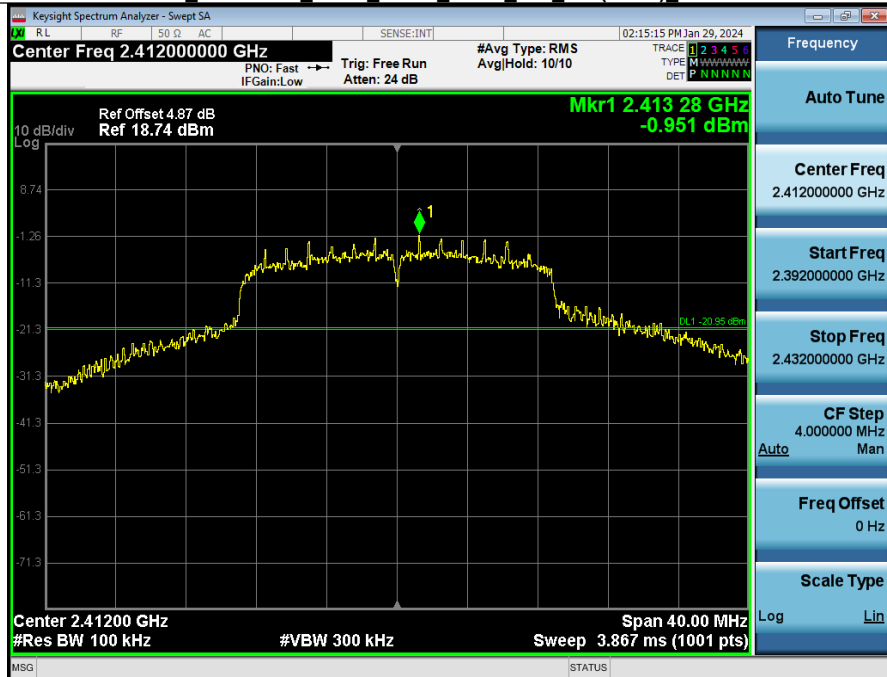
1 Reference Level NVNT_ANT1_802_11g_2462



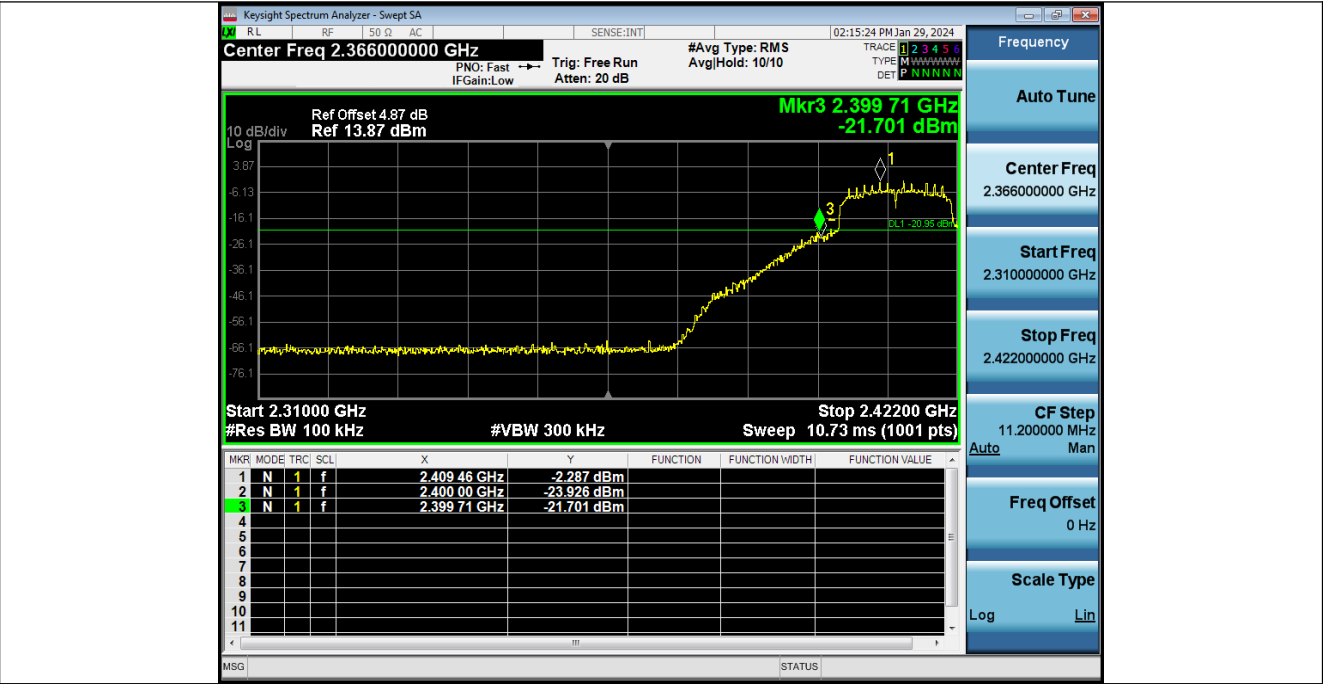
2_Bandedge_NVNT_ANT1_802_11g_2462



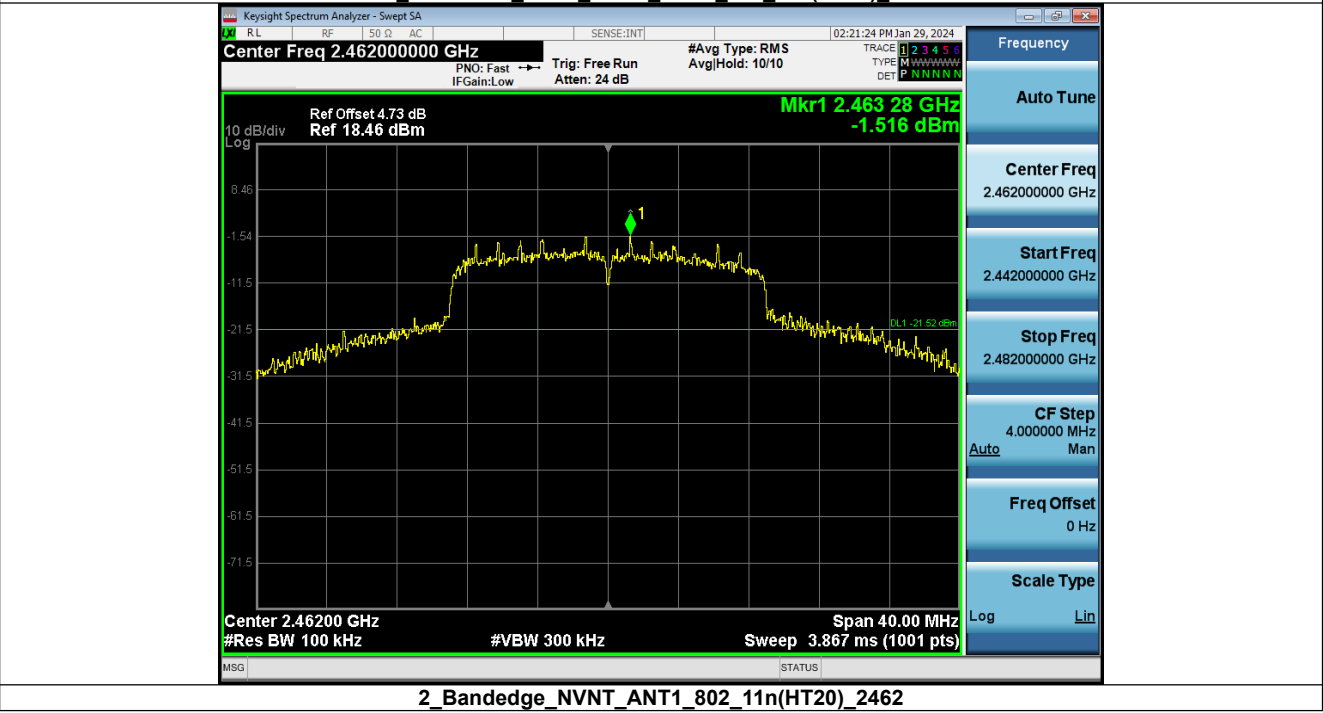
1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



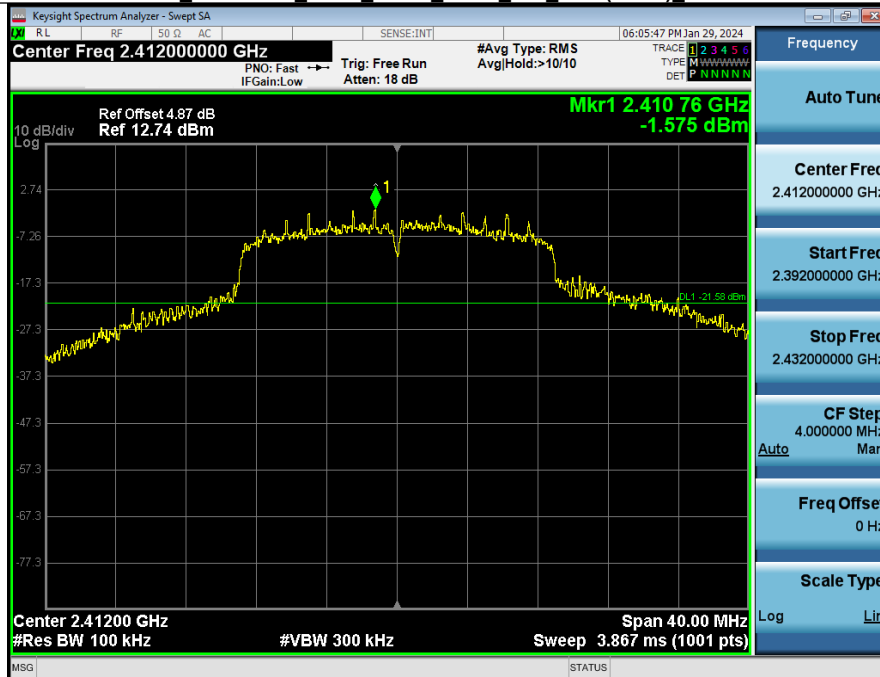
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



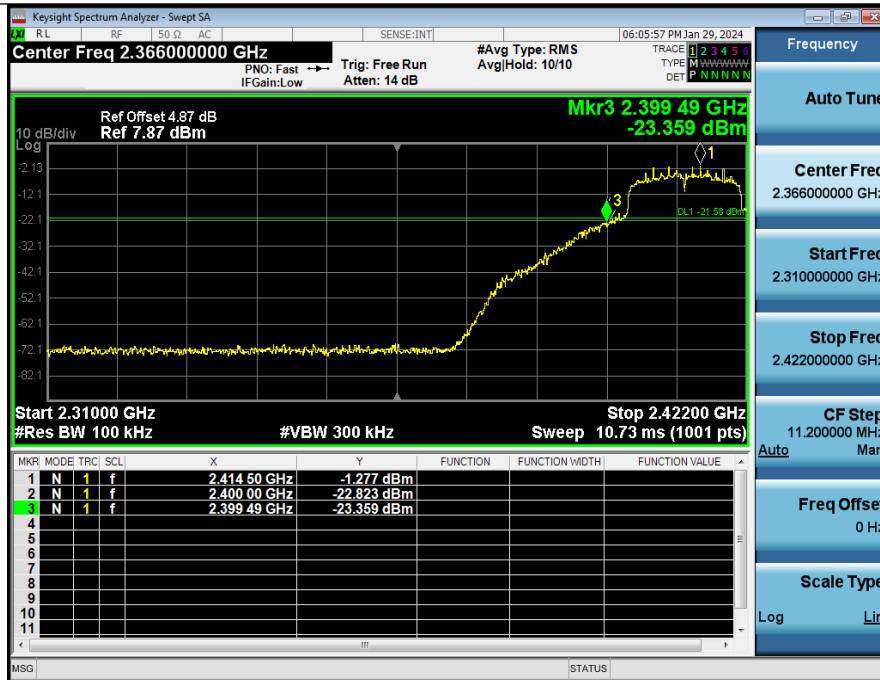
2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



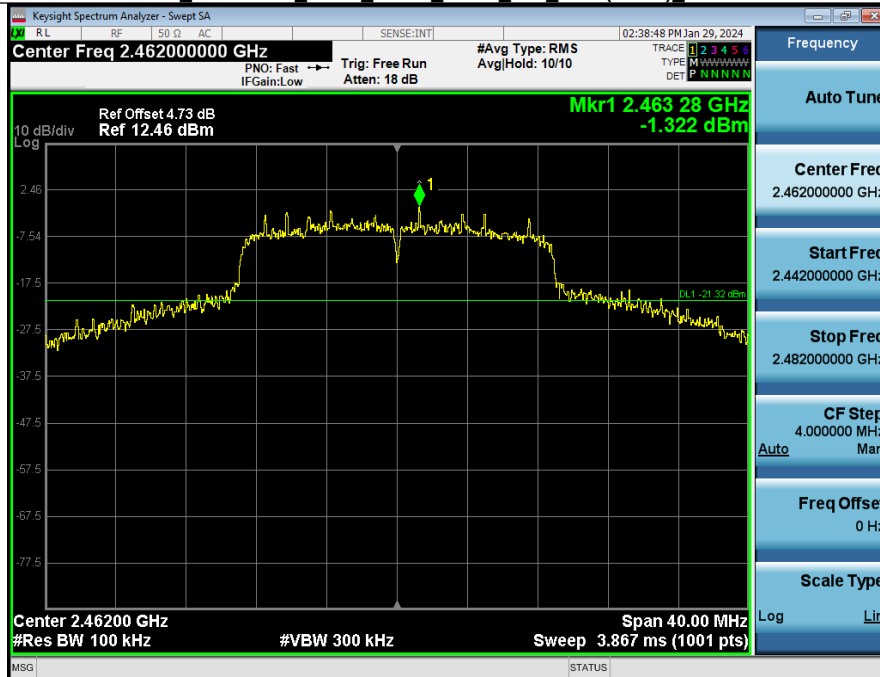
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



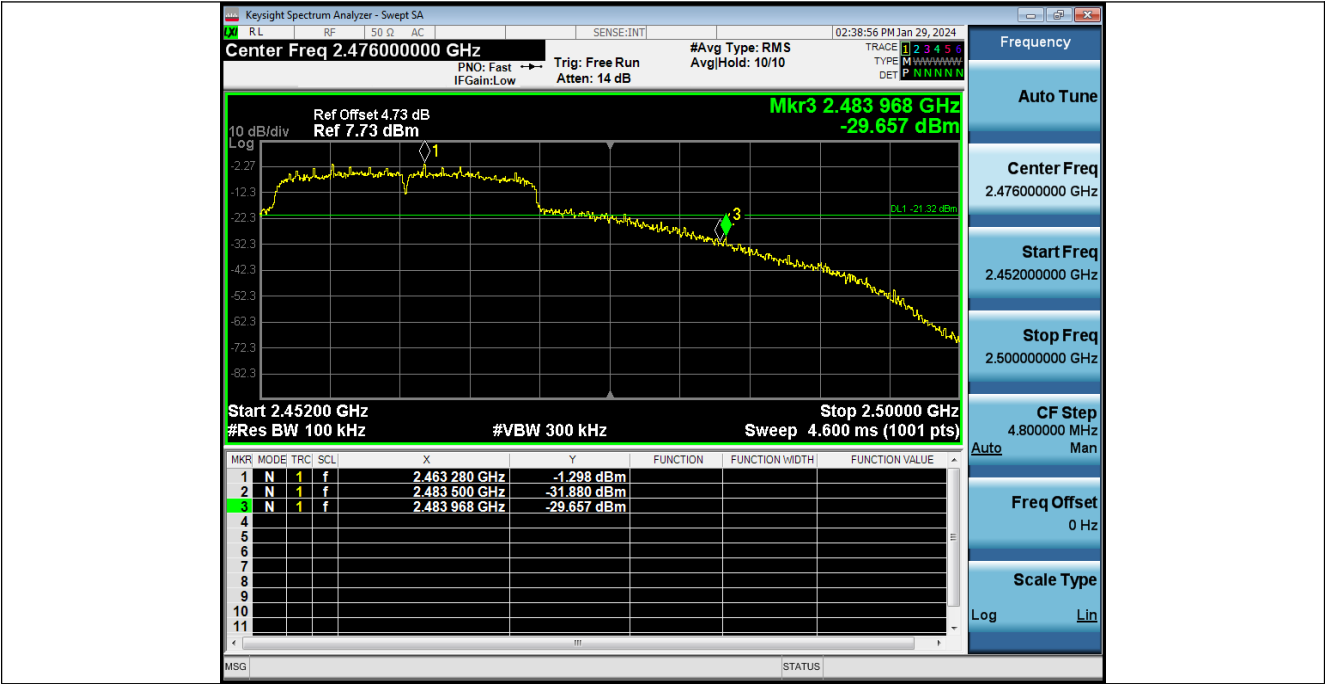
2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2412



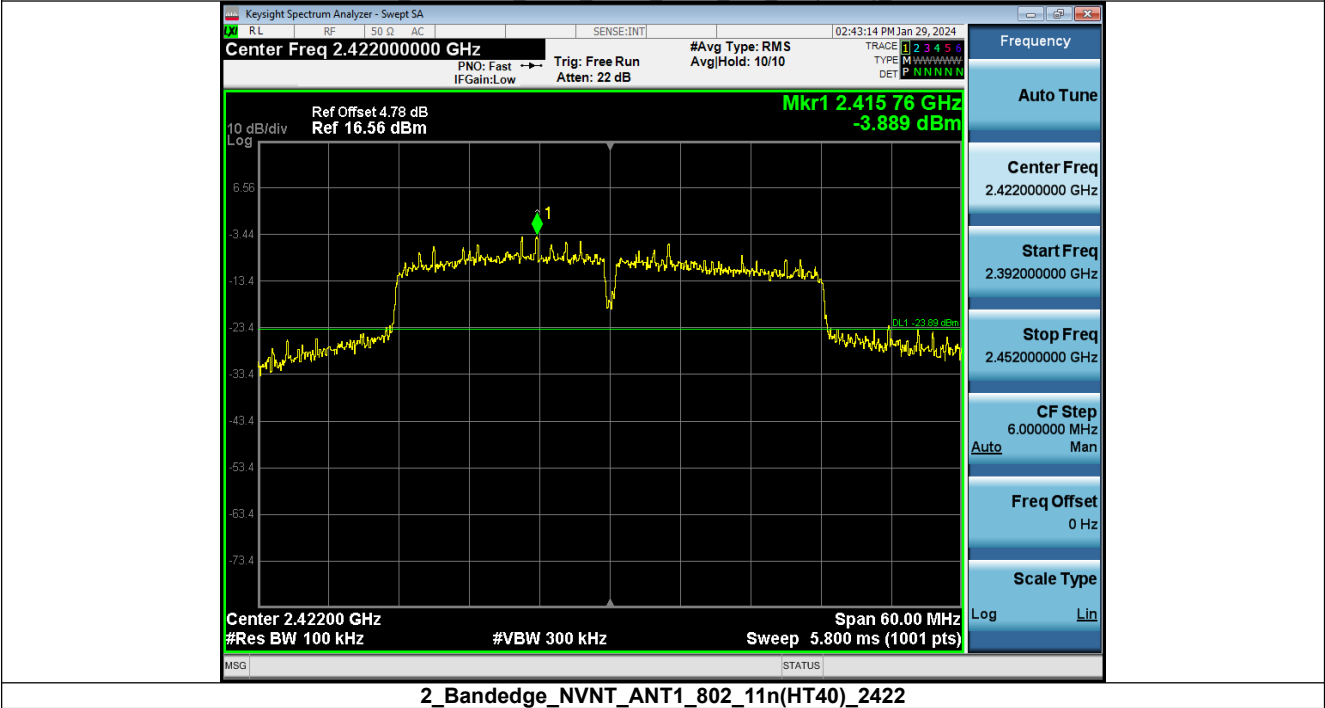
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



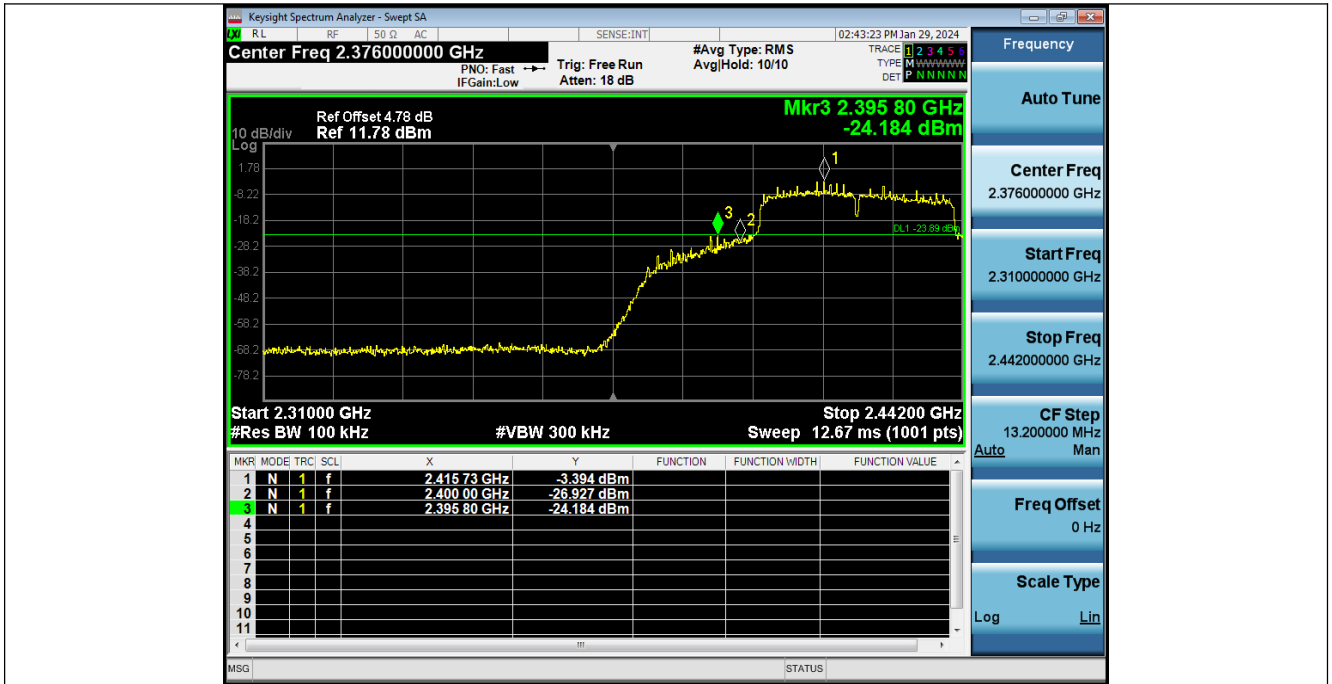
2_Bandedge_NVNT_ANT1_802_11ax(HE20)_2462



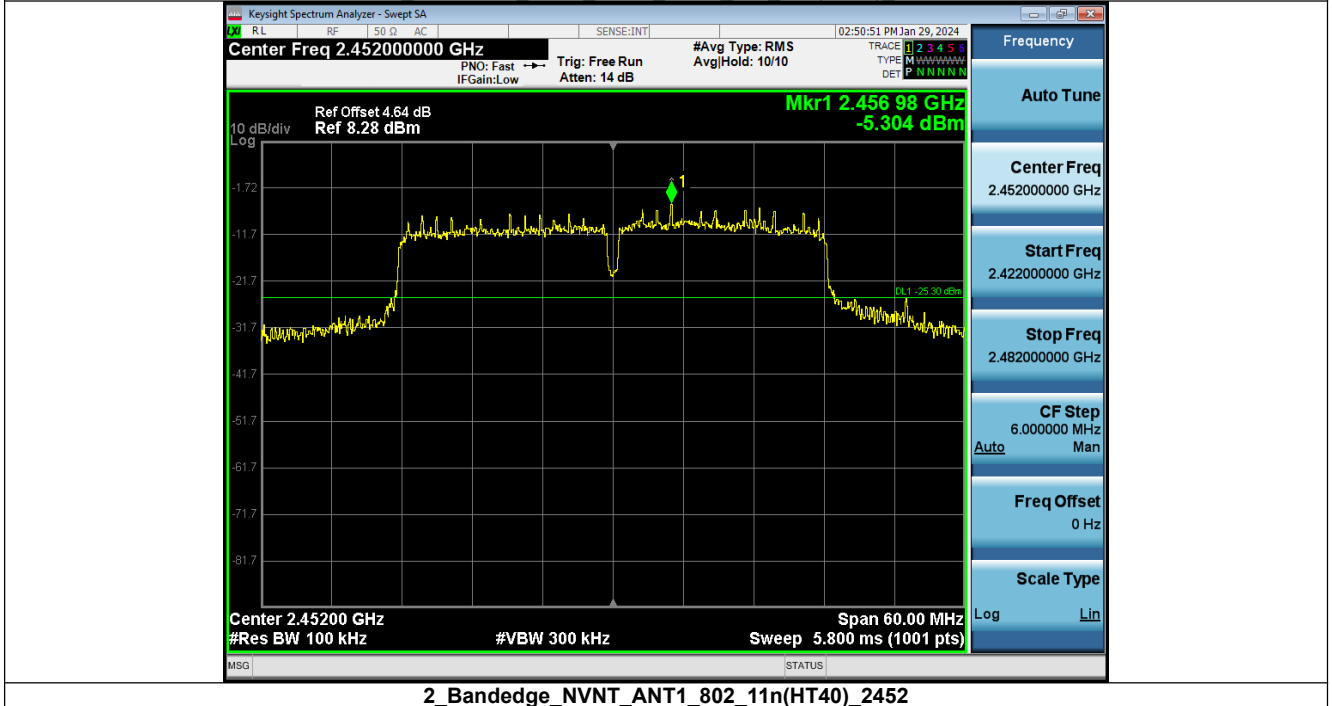
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422



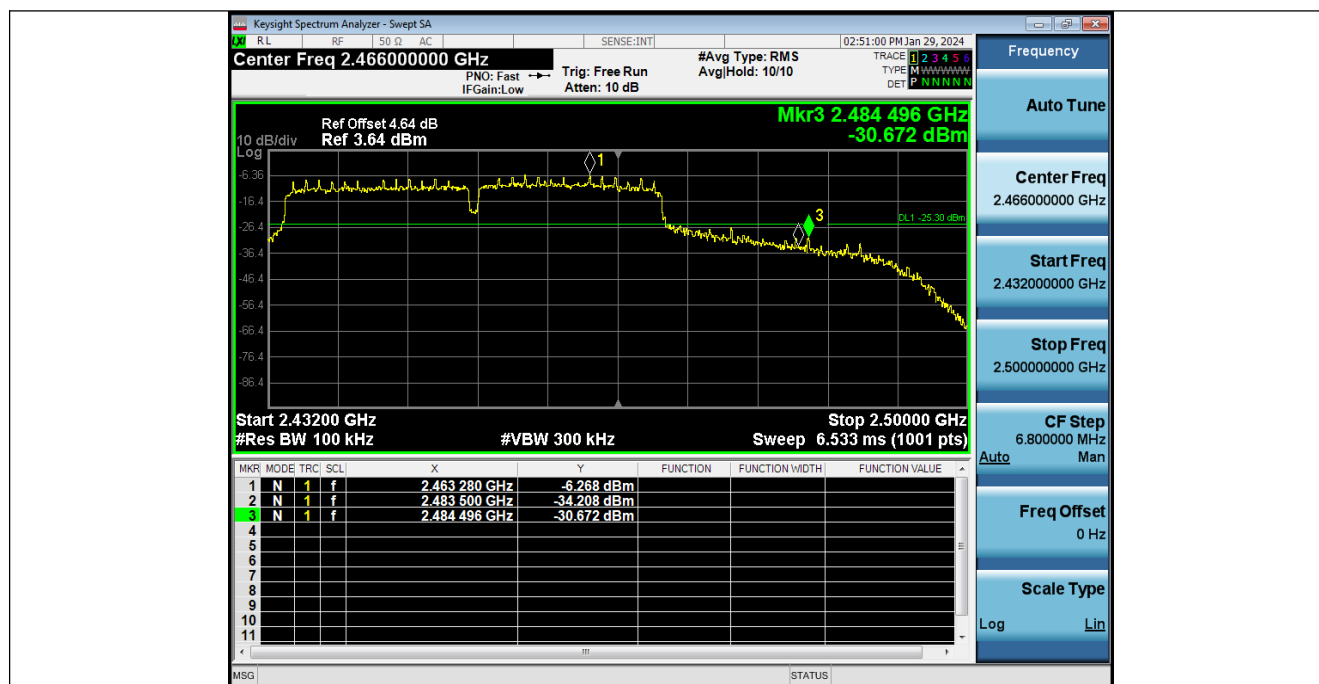
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2422



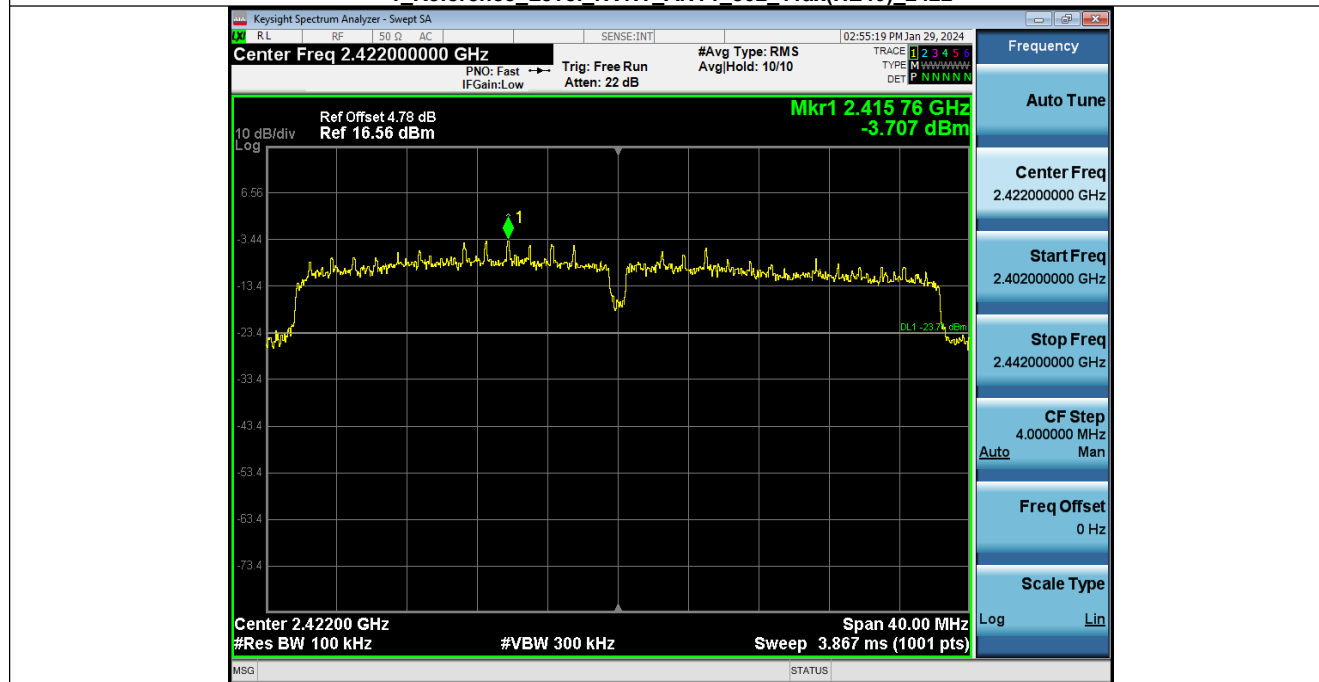
1_Reference_Level_NVNT_ANT1_802_11n(HT40)_2452



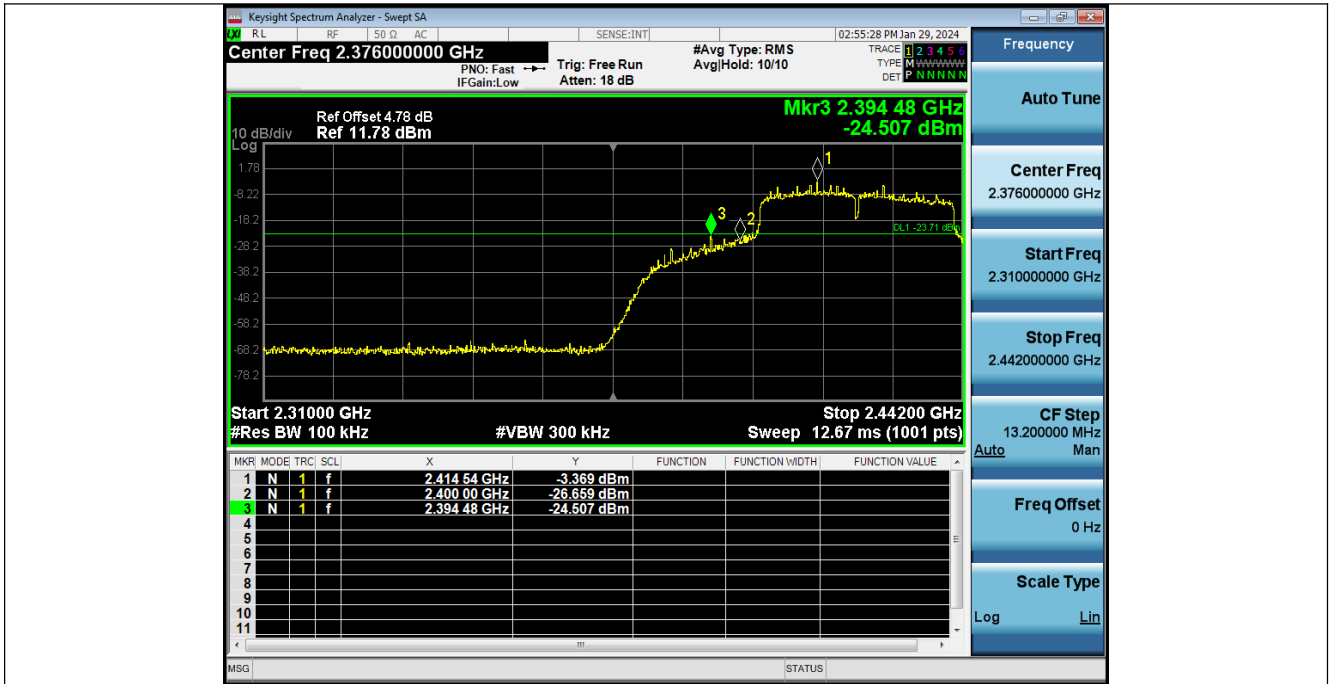
2_Bandedge_NVNT_ANT1_802_11n(HT40)_2452



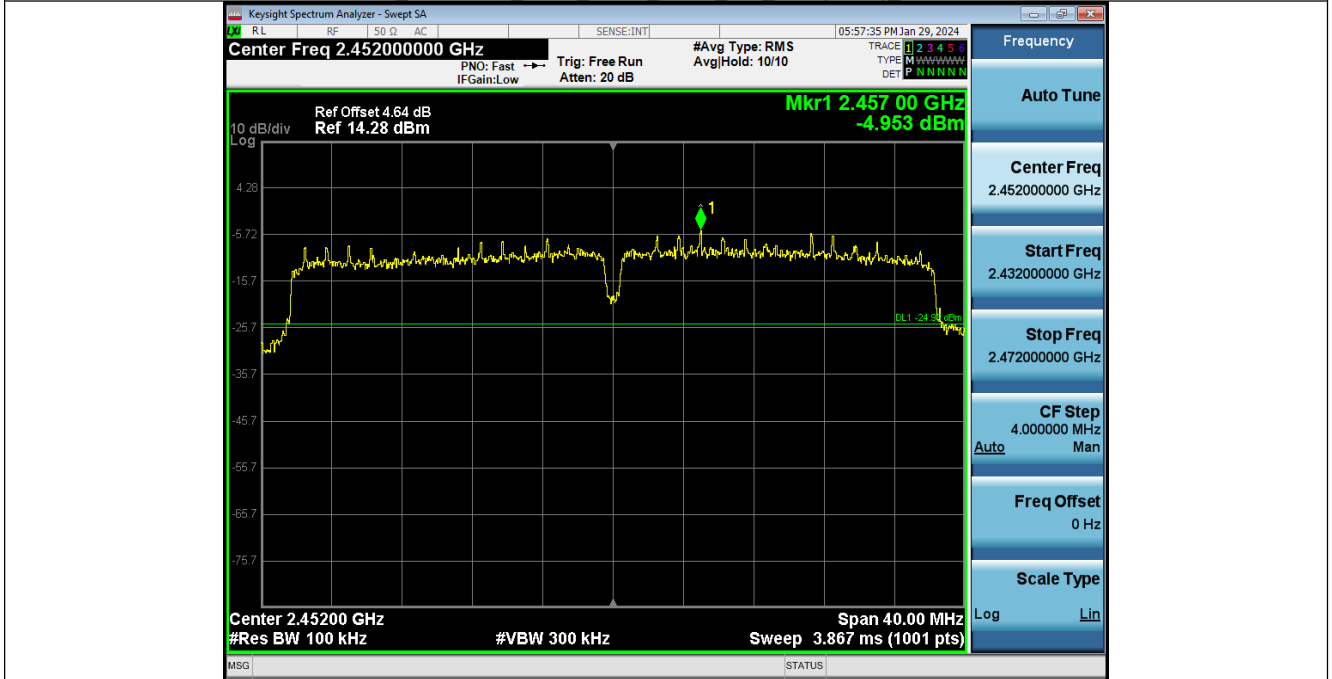
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2422



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452

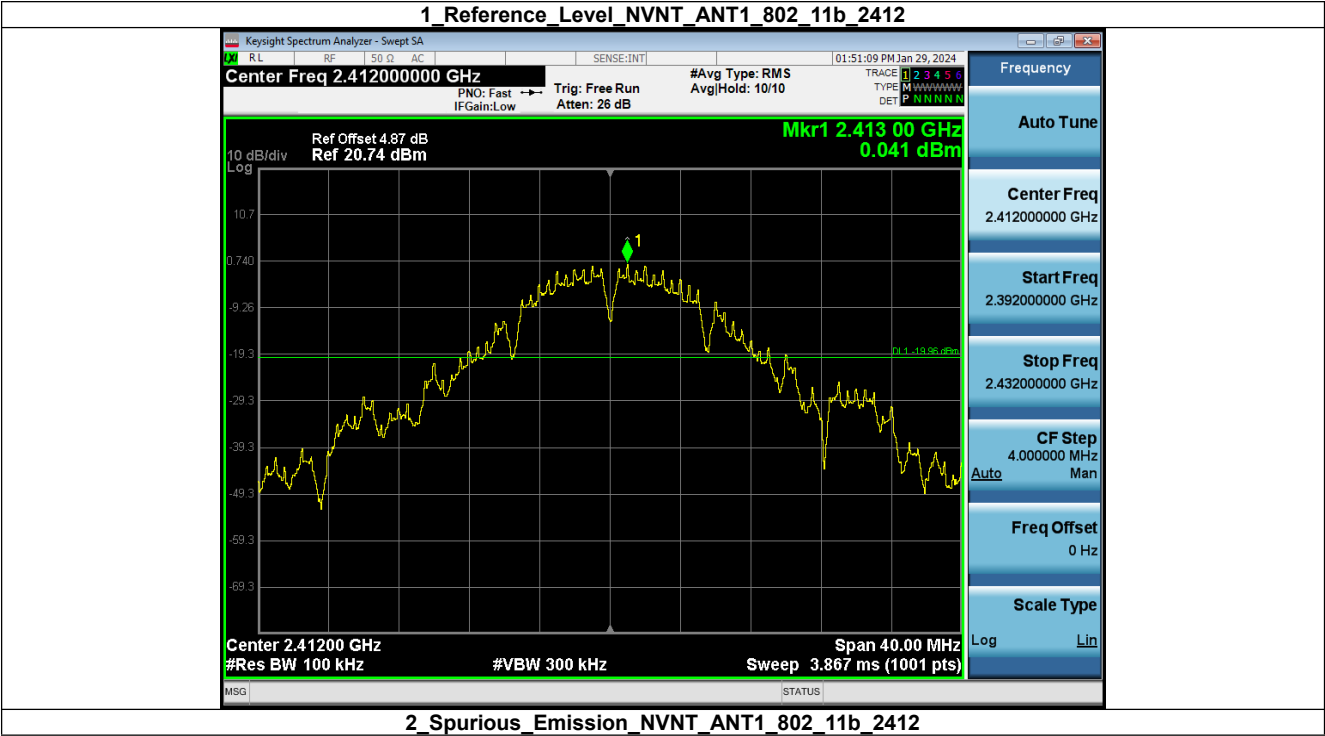


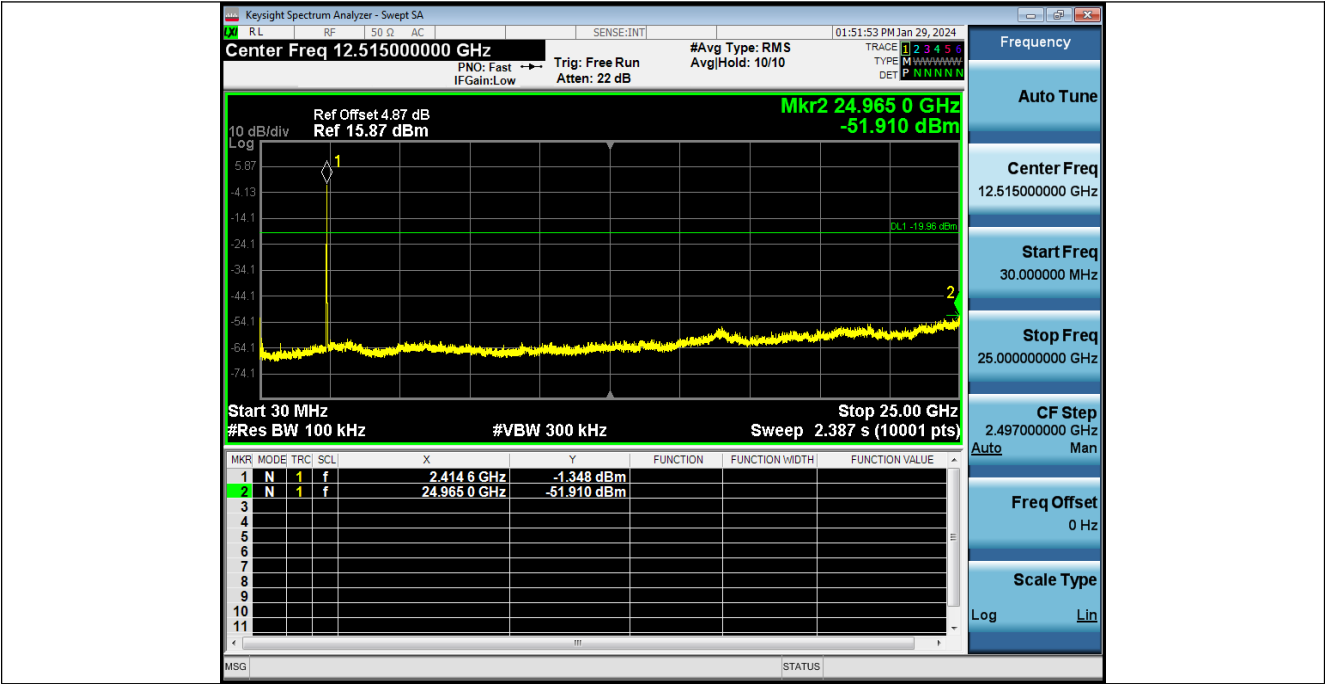
2_Bandedge_NVNT_ANT1_802_11ax(HE40)_2452



7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	24965.042	-51.910	-19.959	Pass
NVNT	ANT1	802.11b	2437.00	2584.431	-41.574	-21.065	Pass
NVNT	ANT1	802.11b	2462.00	34.994	-51.920	-20.144	Pass
NVNT	ANT1	802.11g	2412.00	34.994	-53.356	-21.665	Pass
NVNT	ANT1	802.11g	2437.00	34.994	-53.472	-24.254	Pass
NVNT	ANT1	802.11g	2462.00	32.497	-53.104	-21.429	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	34.994	-53.676	-20.951	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	34.994	-53.148	-24.025	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	34.994	-54.514	-21.516	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2539.485	-50.743	-21.575	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	2536.988	-48.810	-24.148	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	37.491	-53.212	-21.322	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	1757.924	-32.753	-23.889	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	34.994	-53.615	-25.806	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	34.994	-54.414	-25.304	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	34.994	-53.112	-23.707	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	34.994	-51.804	-25.265	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	34.994	-53.514	-24.953	Pass

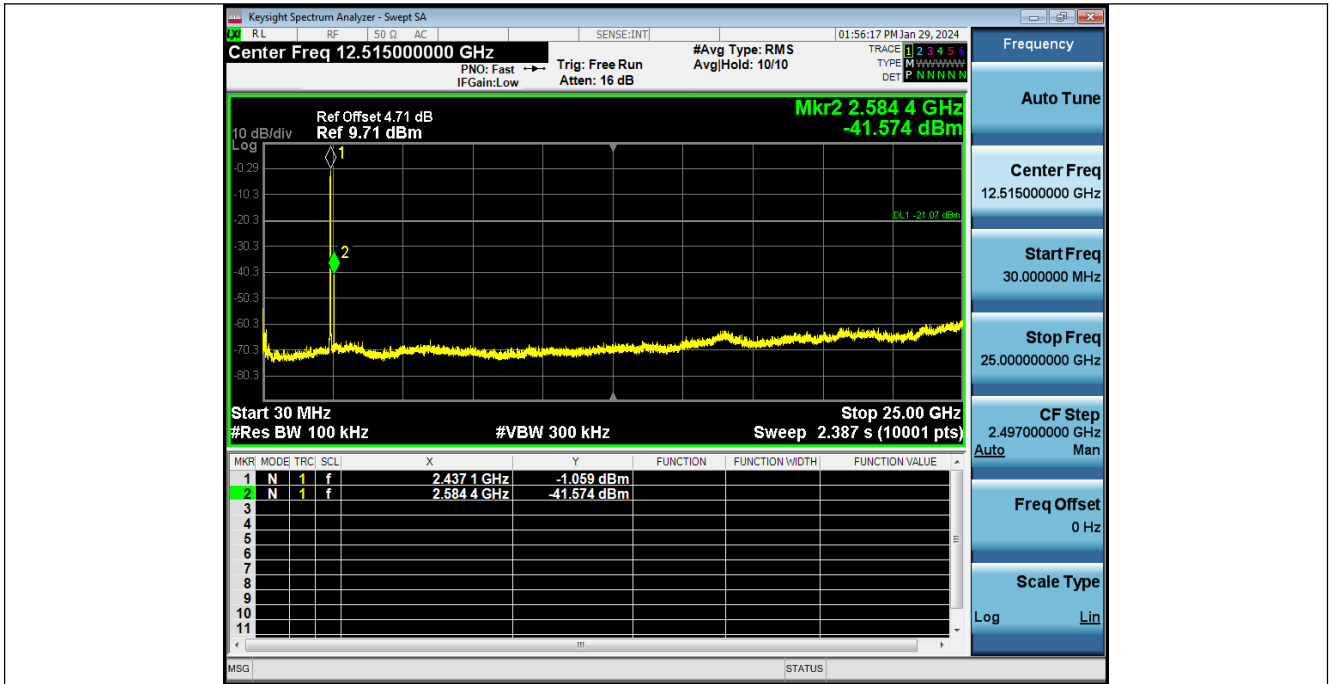




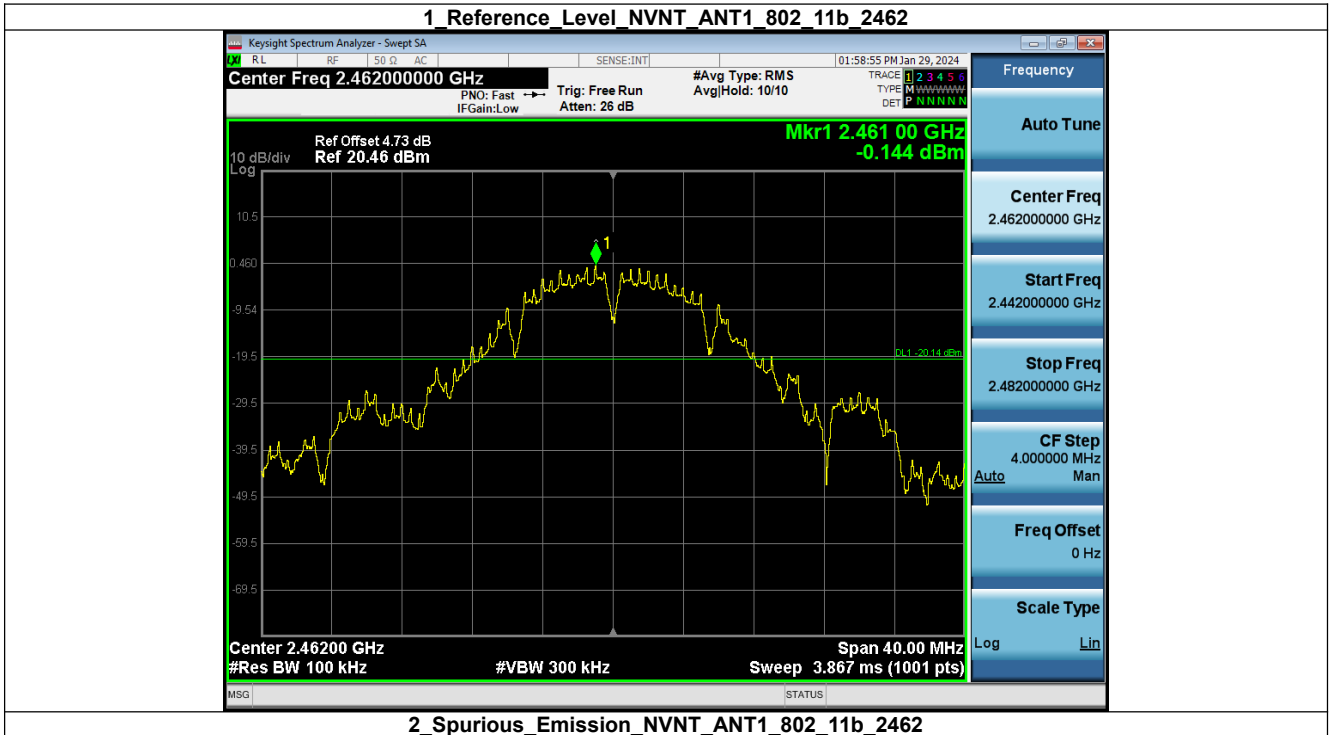
1 Reference Level NVNT_ANT1_802_11b_2437



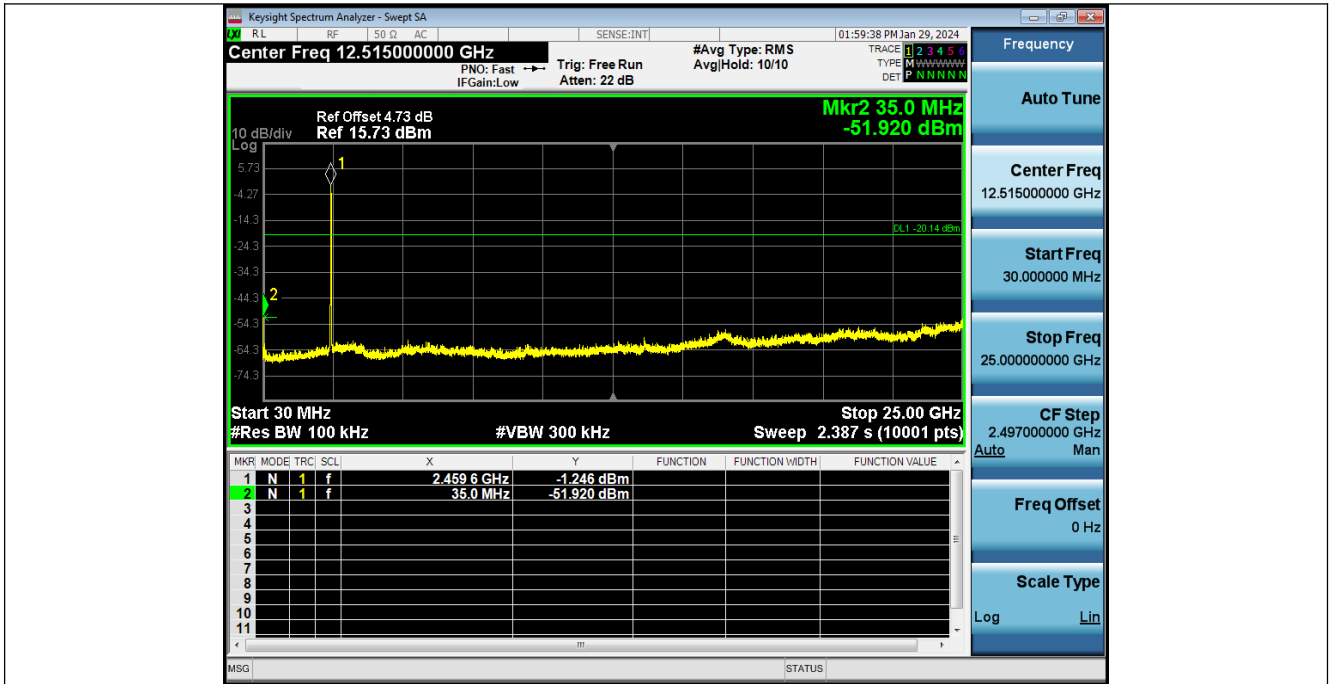
2 Spurious_Emission_NVNT_ANT1_802_11b_2437



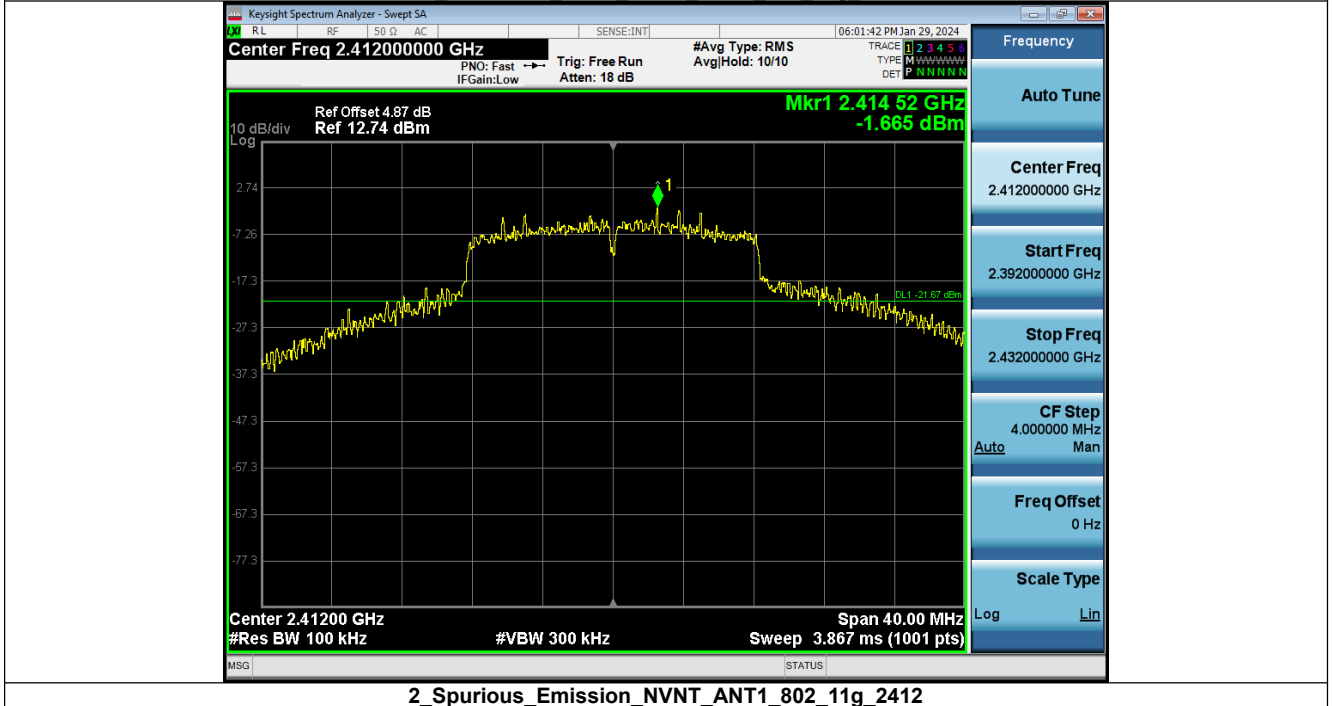
1 Reference Level NVNT_ANT1_802_11b_2462



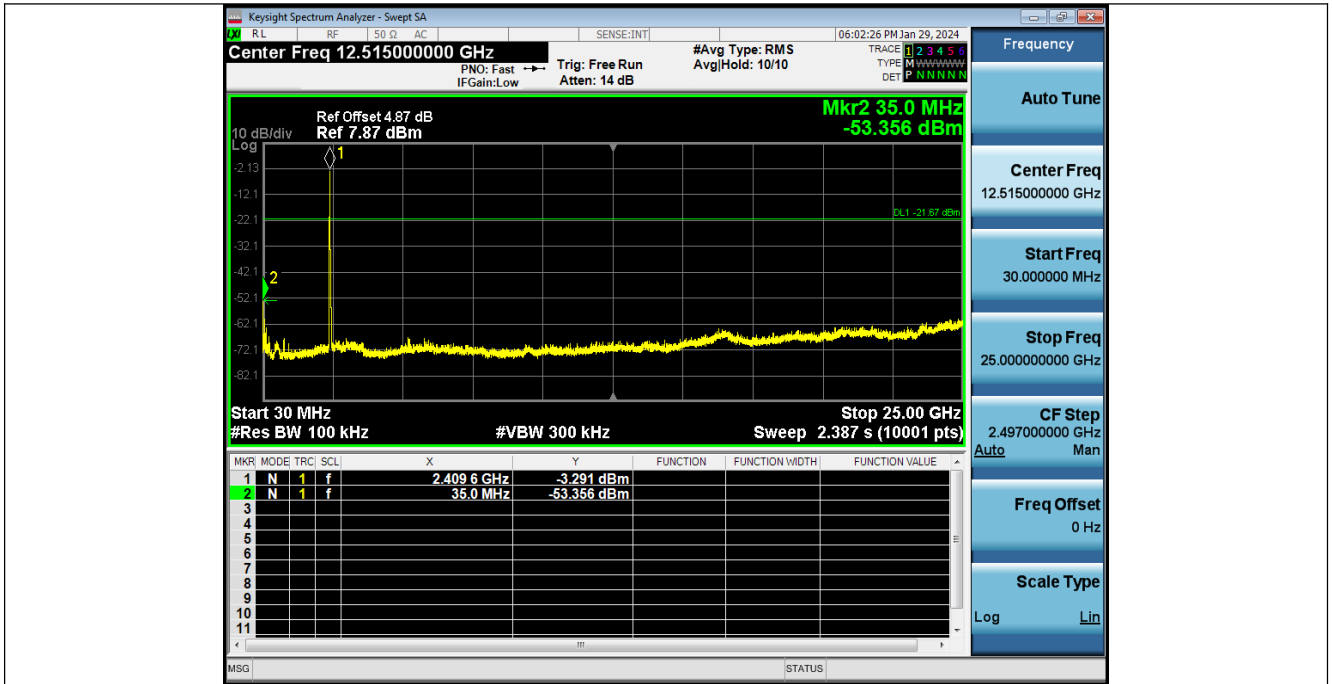
2 Spurious_Emission_NVNT_ANT1_802_11b_2462



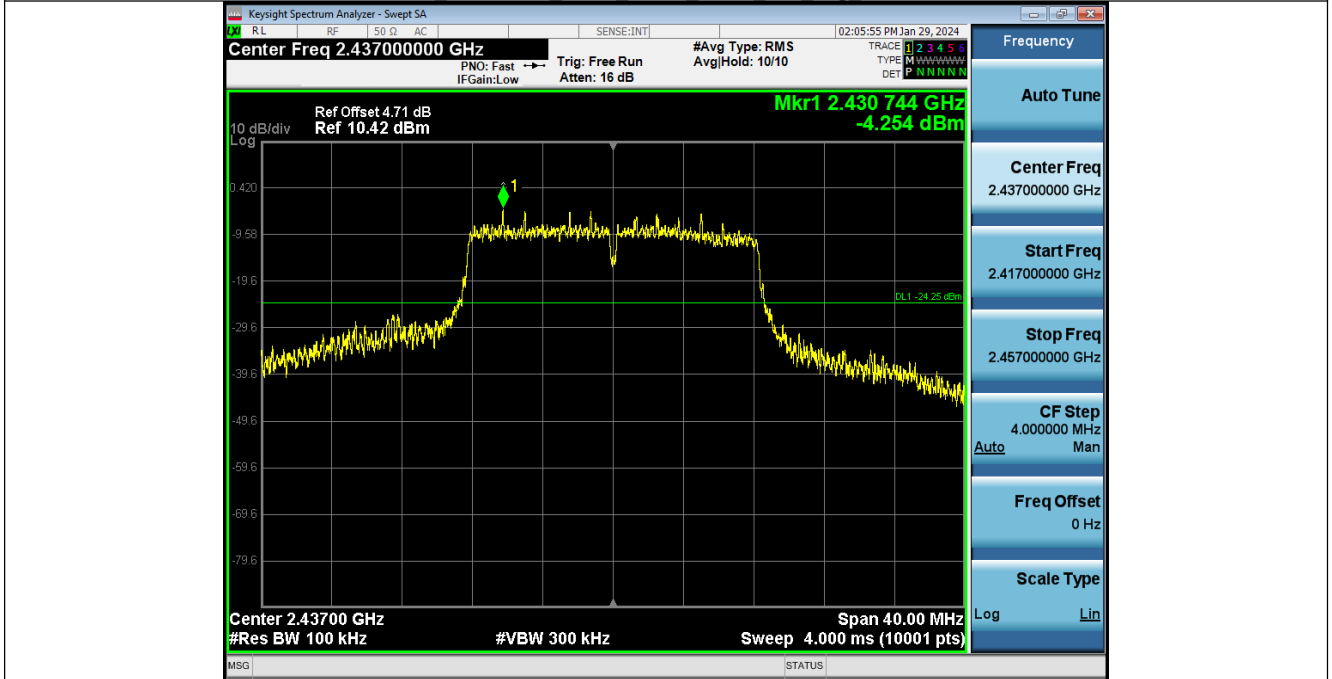
1 Reference Level NVNT_ANT1_802_11g_2412



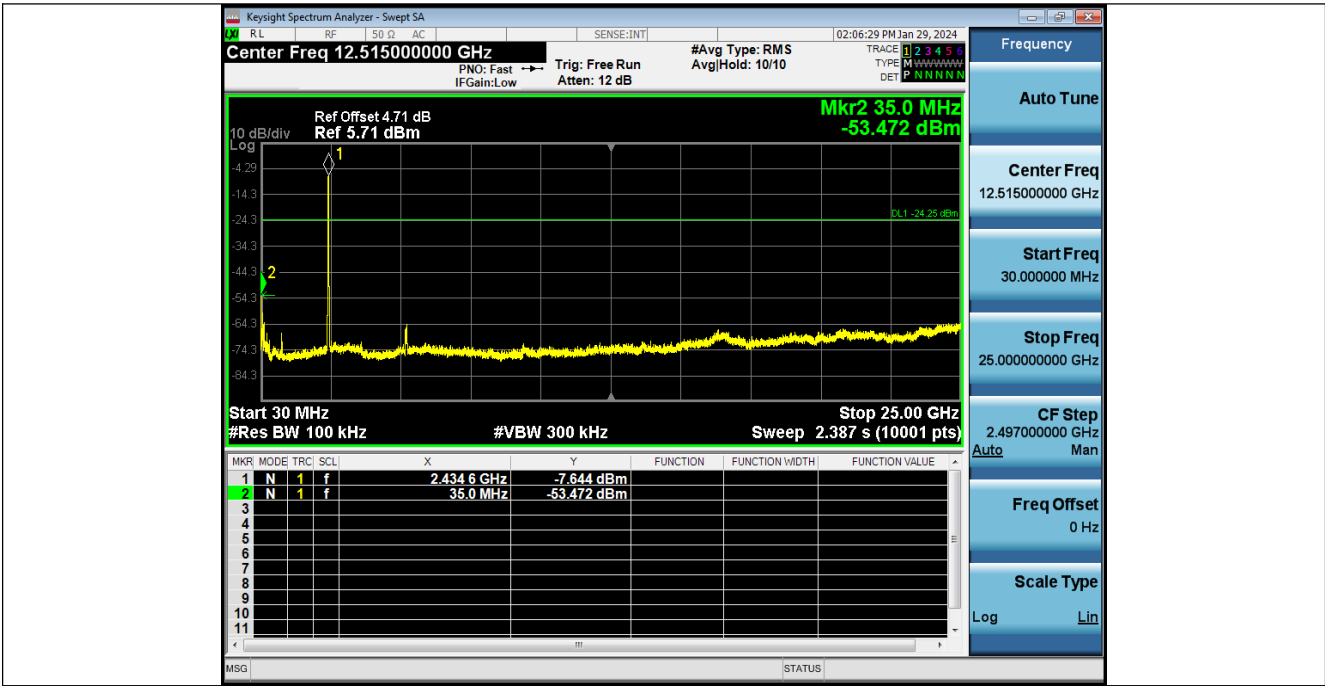
2 Spurious Emission NVNT_ANT1_802_11g_2412



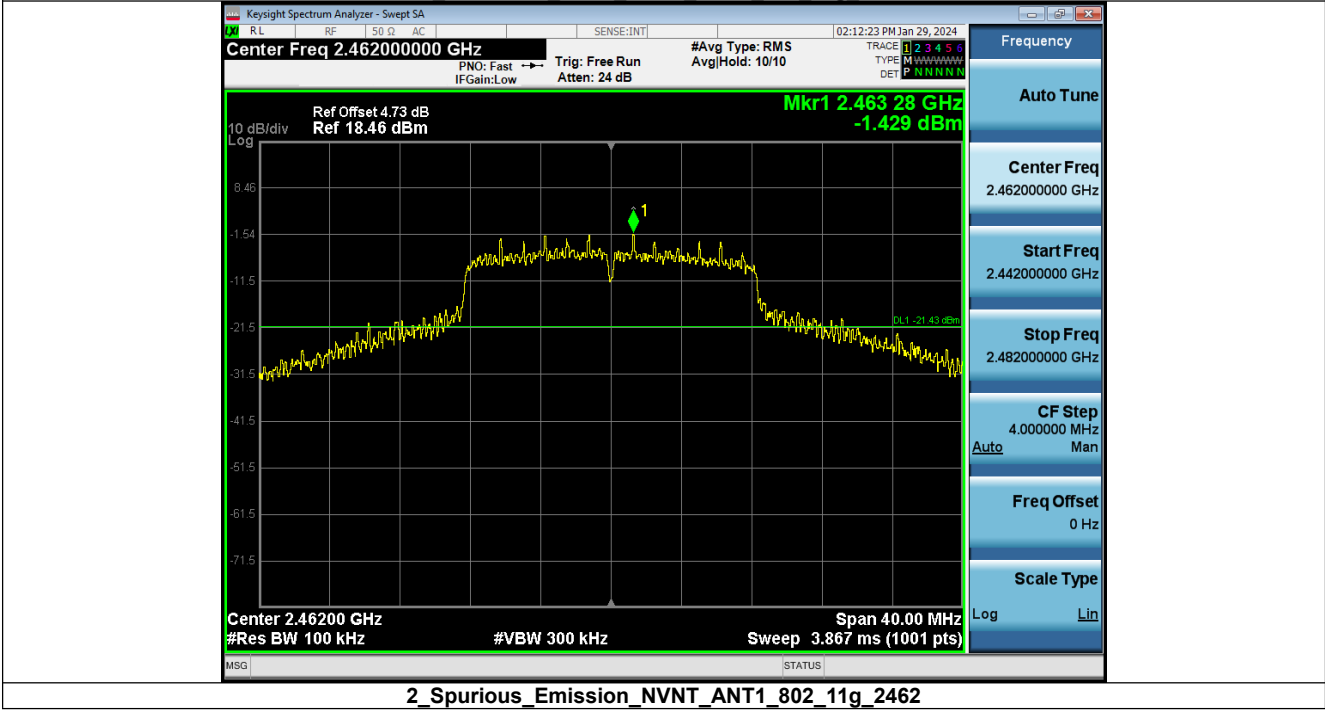
1 Reference Level NVNT_ANT1_802_11g_2437



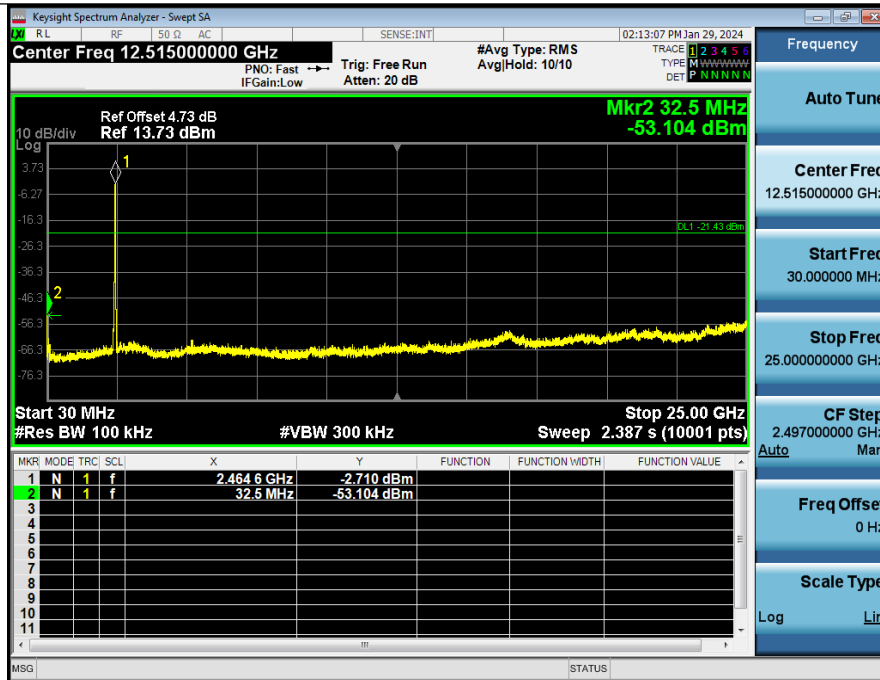
2 Spurious Emission NVNT_ANT1_802_11g_2437



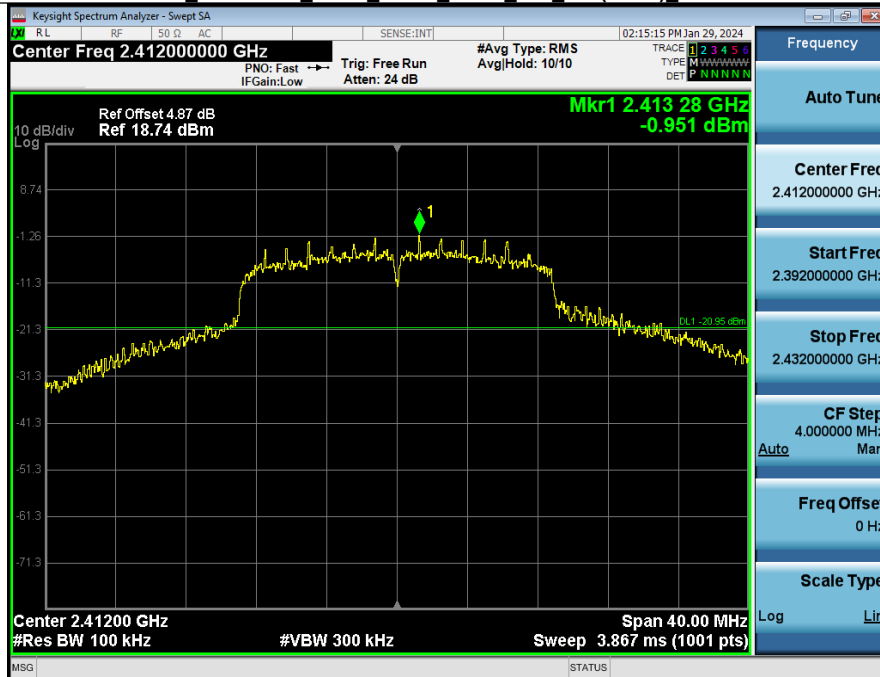
1 Reference Level NVNT_ANT1_802_11g_2462



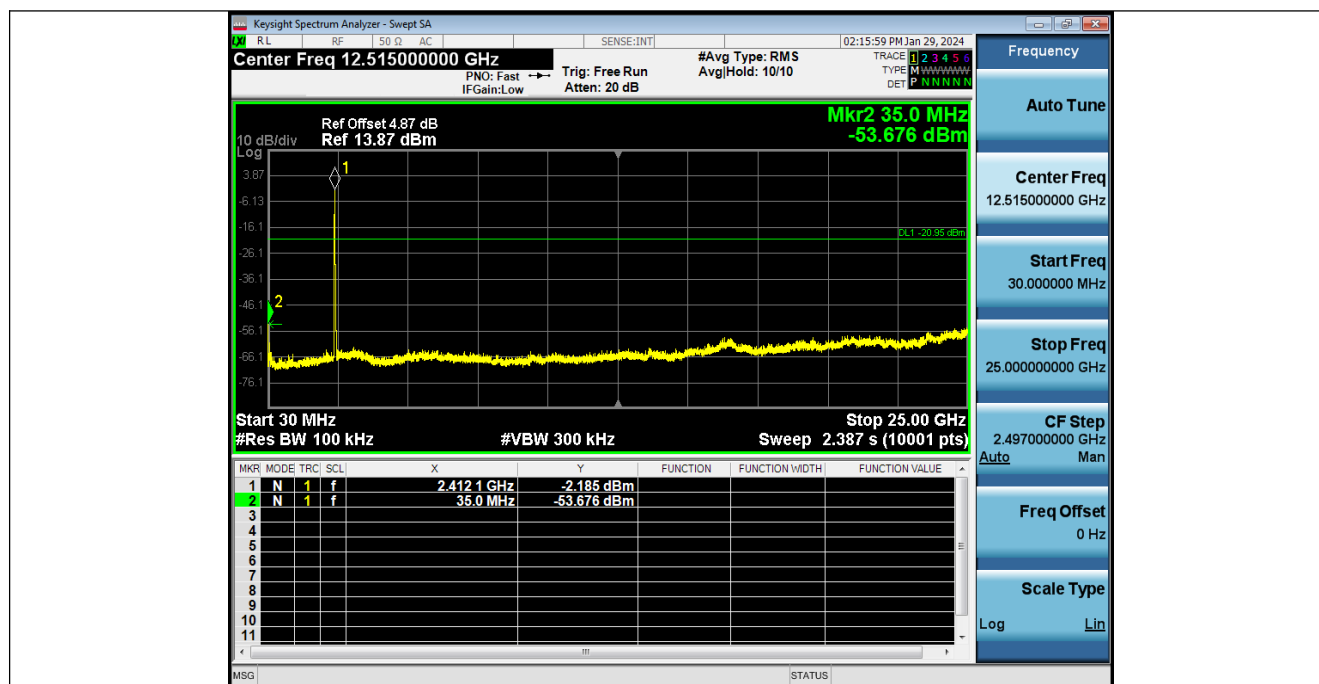
2 Spurious_Emission_NVNT_ANT1_802_11g_2462



1 Reference Level NVNT_ANT1_802_11n(HT20)_2412



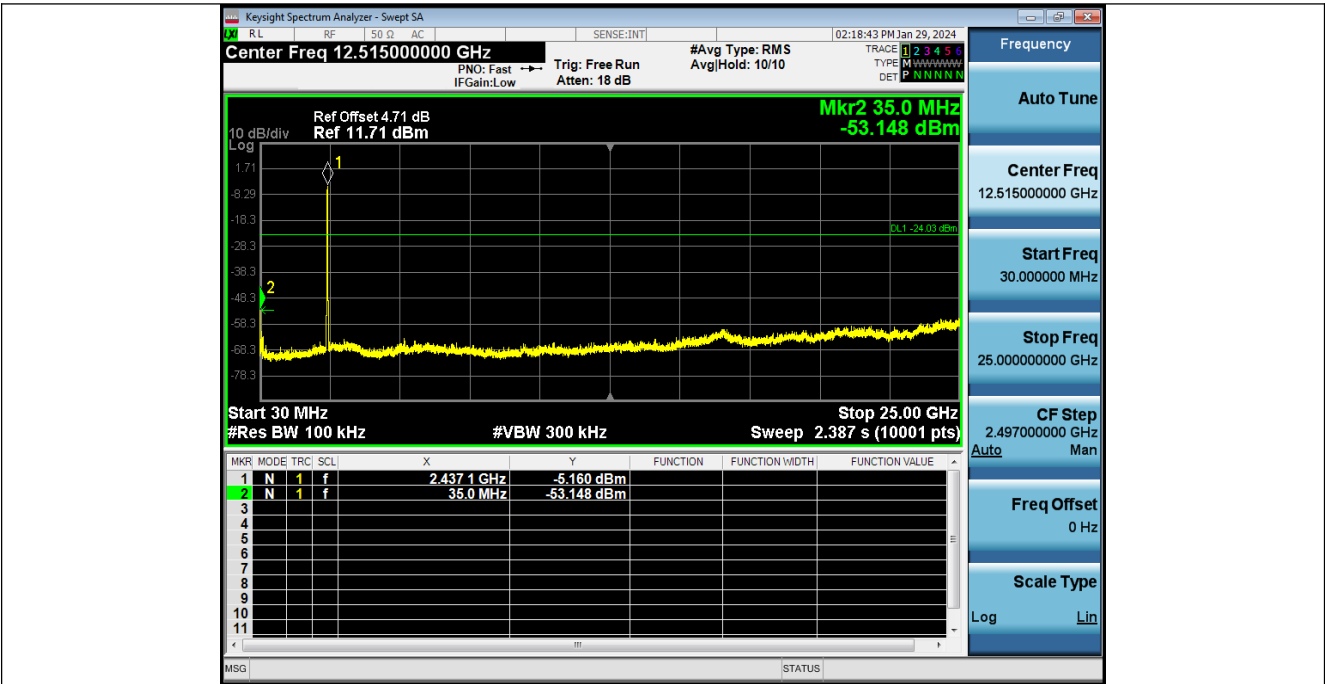
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2412



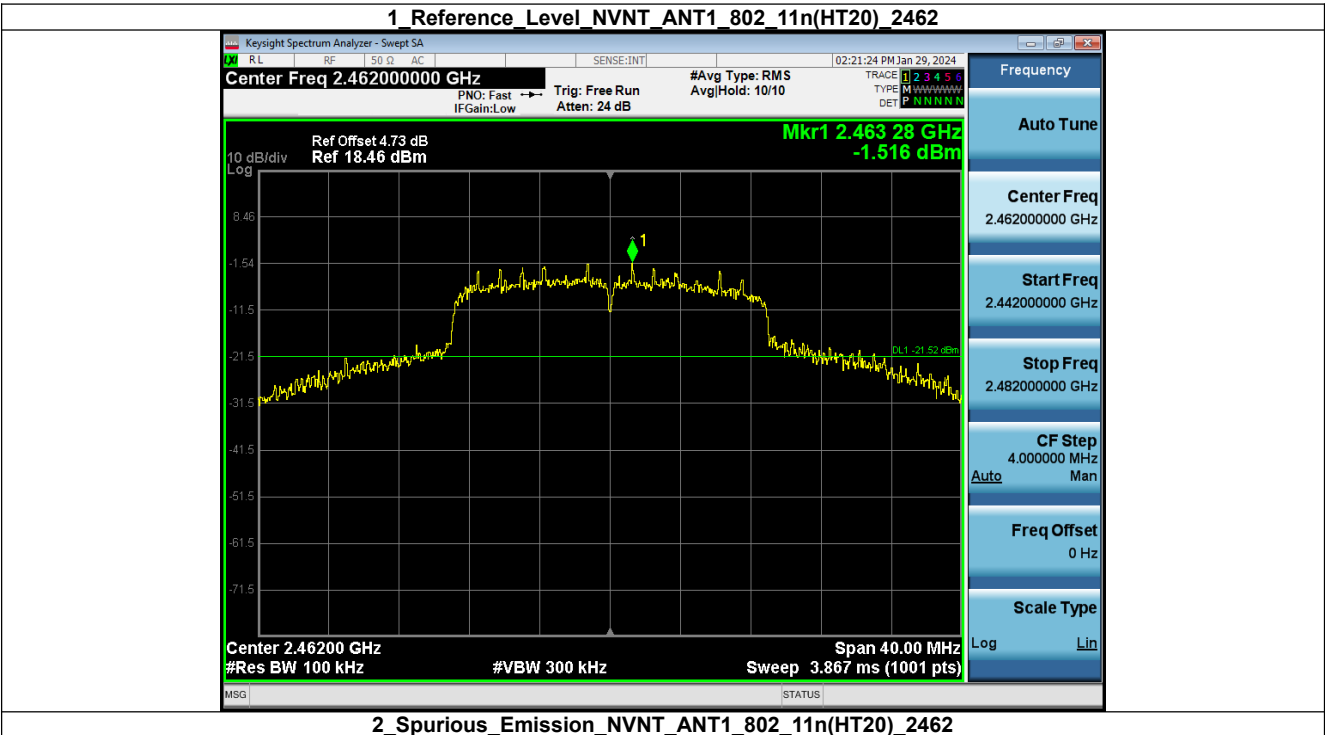
1 Reference Level NVNT_ANT1_802_11n(HT20)_2437



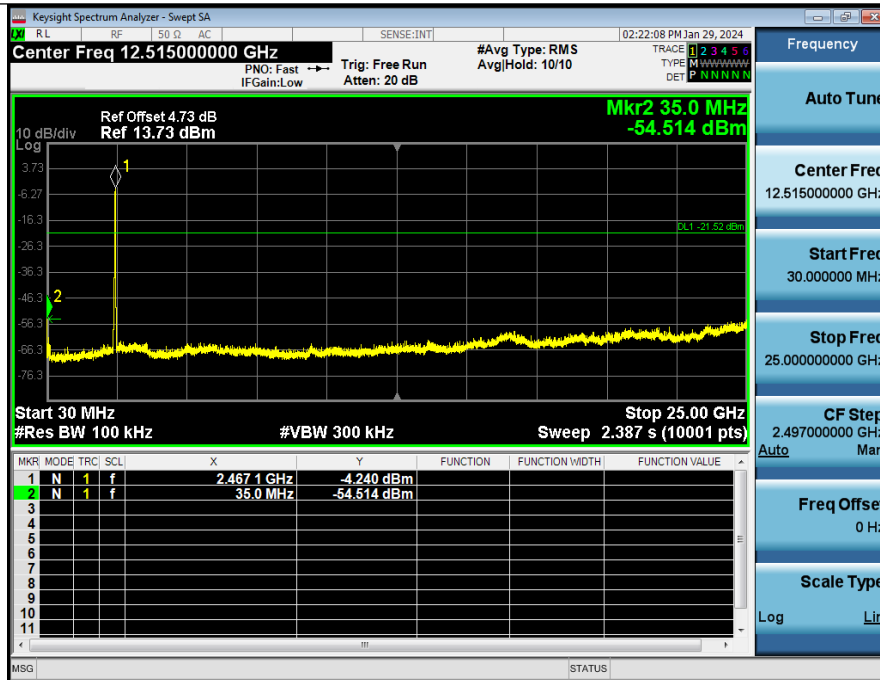
2 Spurious Emission NVNT_ANT1_802_11n(HT20)_2437



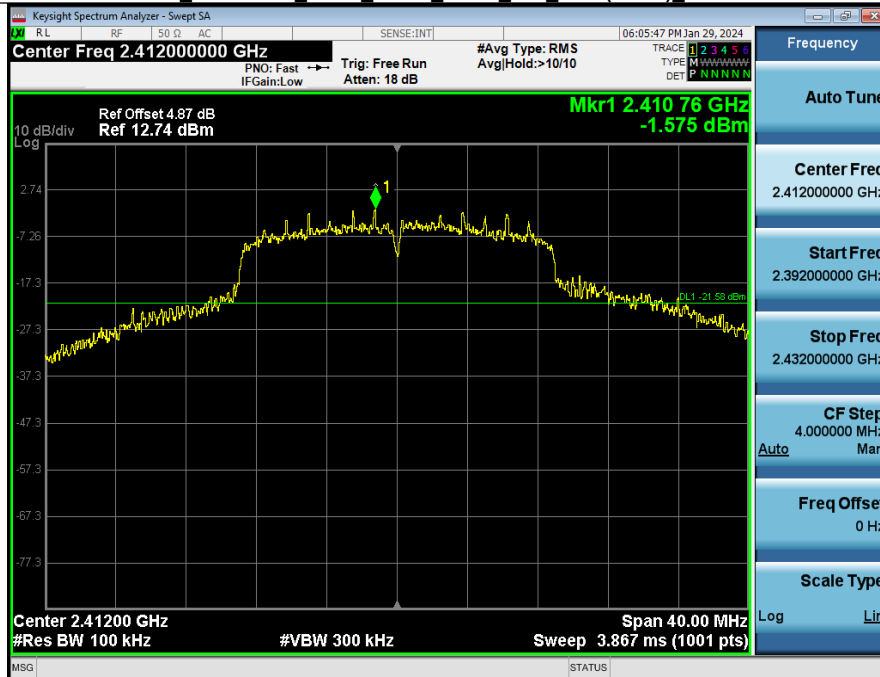
1 Reference Level NVNT_ANT1_802_11n(HT20)_2462



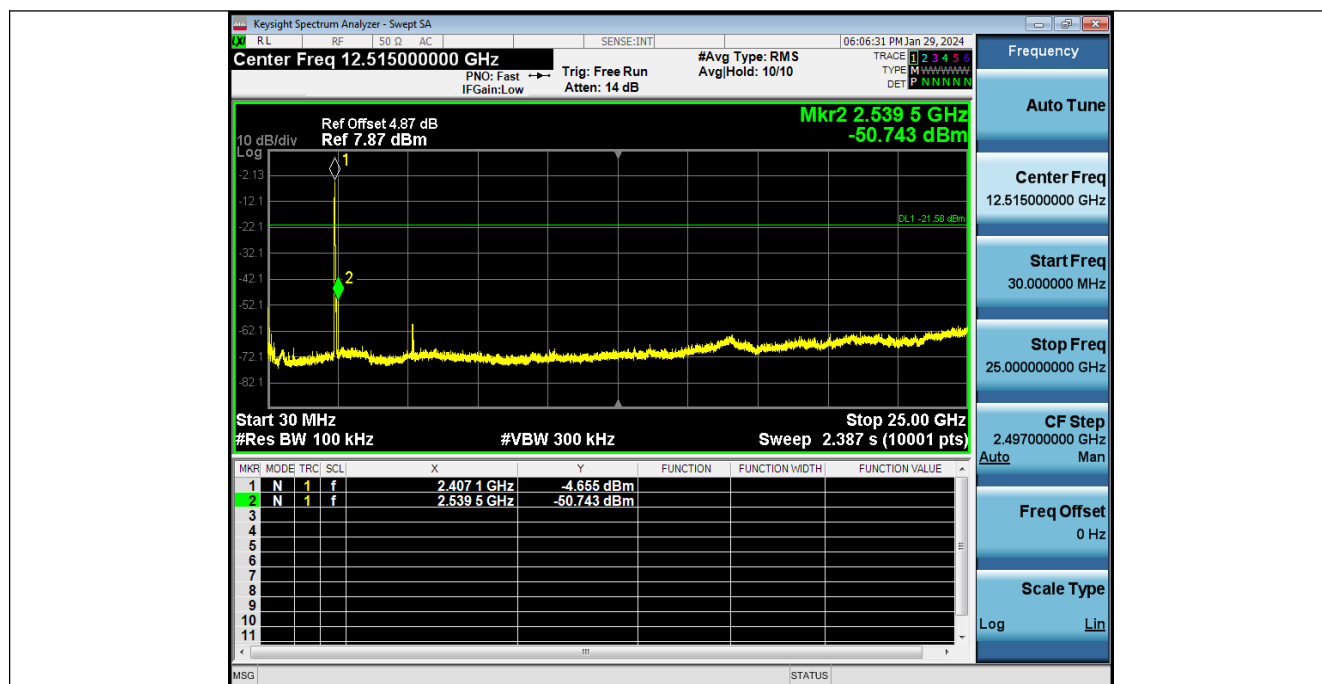
2 Spurious_Emission_NVNT_ANT1_802_11n(HT20)_2462



1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2412



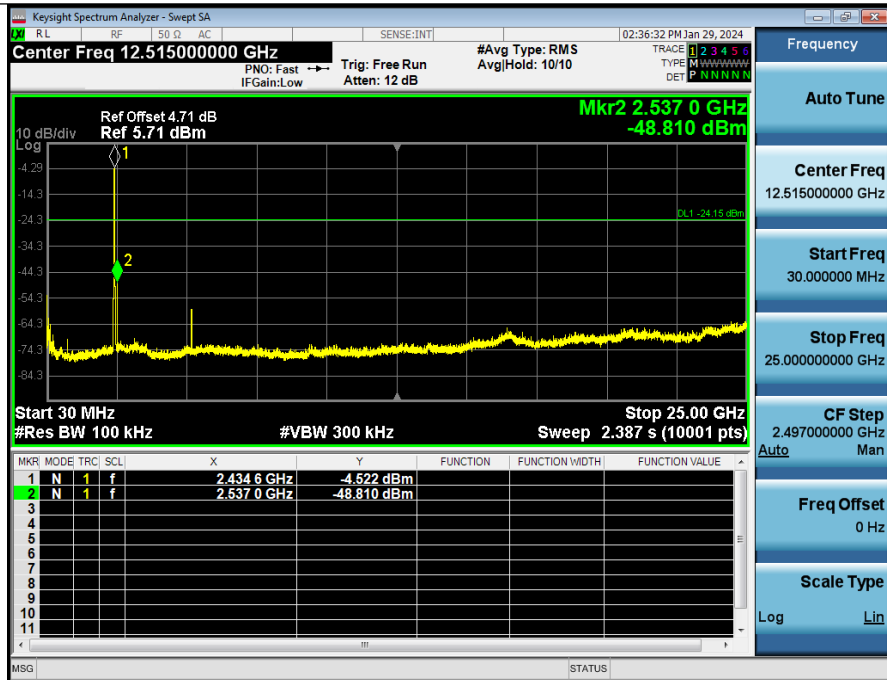
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2412



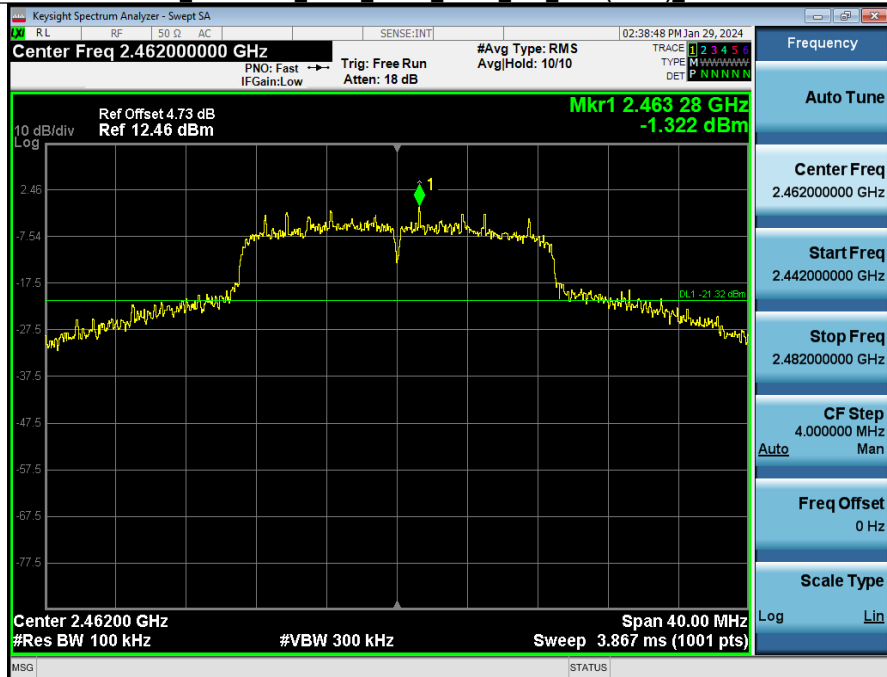
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2437



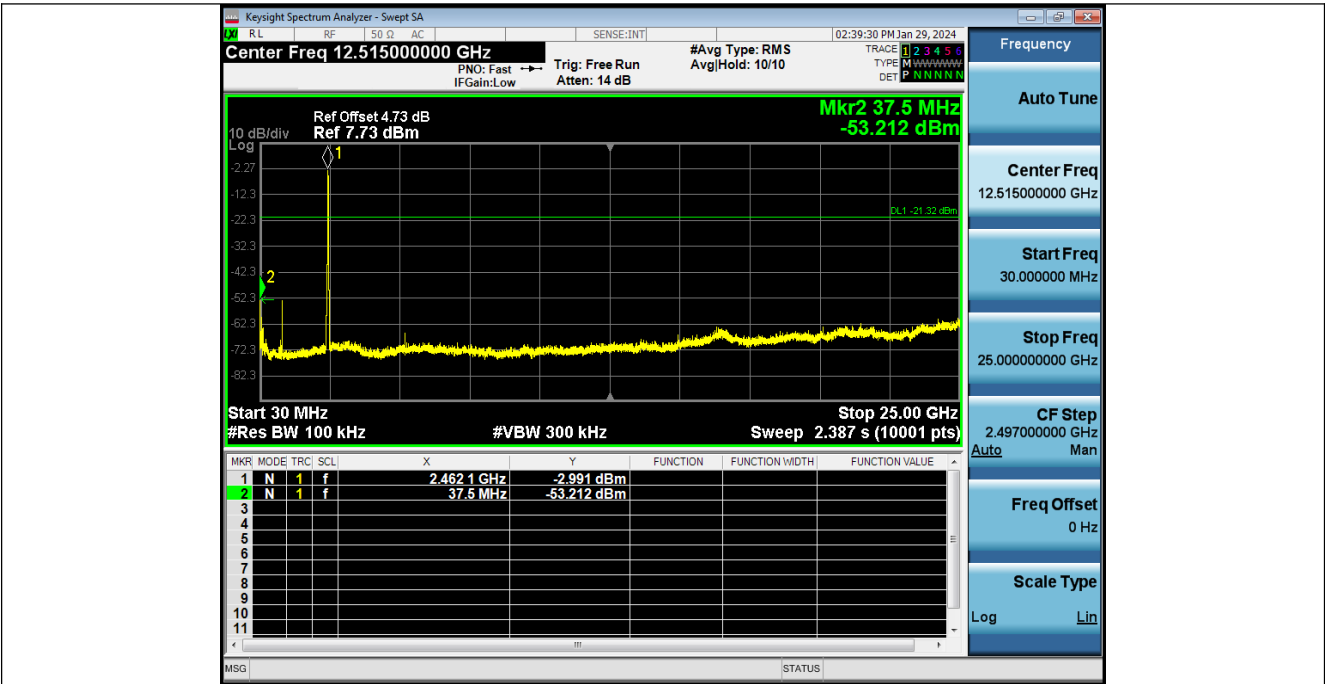
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2437



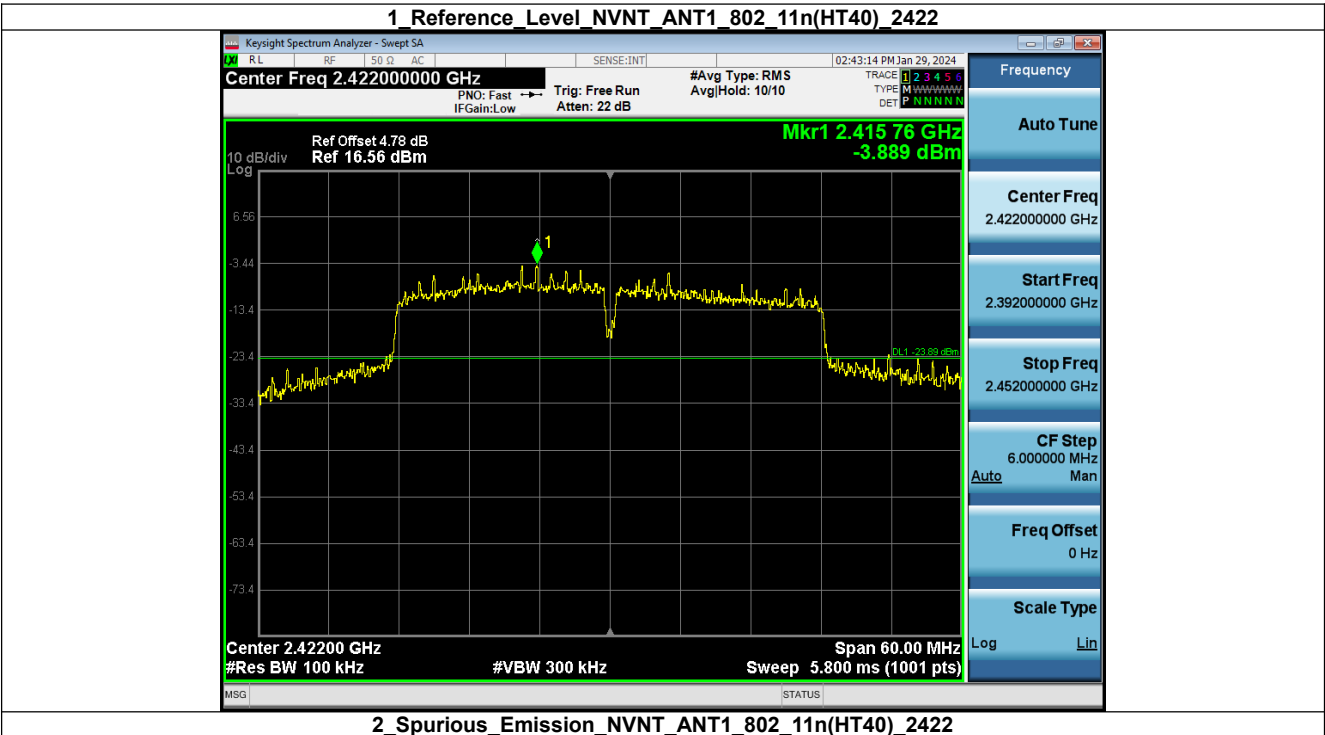
1_Reference_Level_NVNT_ANT1_802_11ax(HE20)_2462



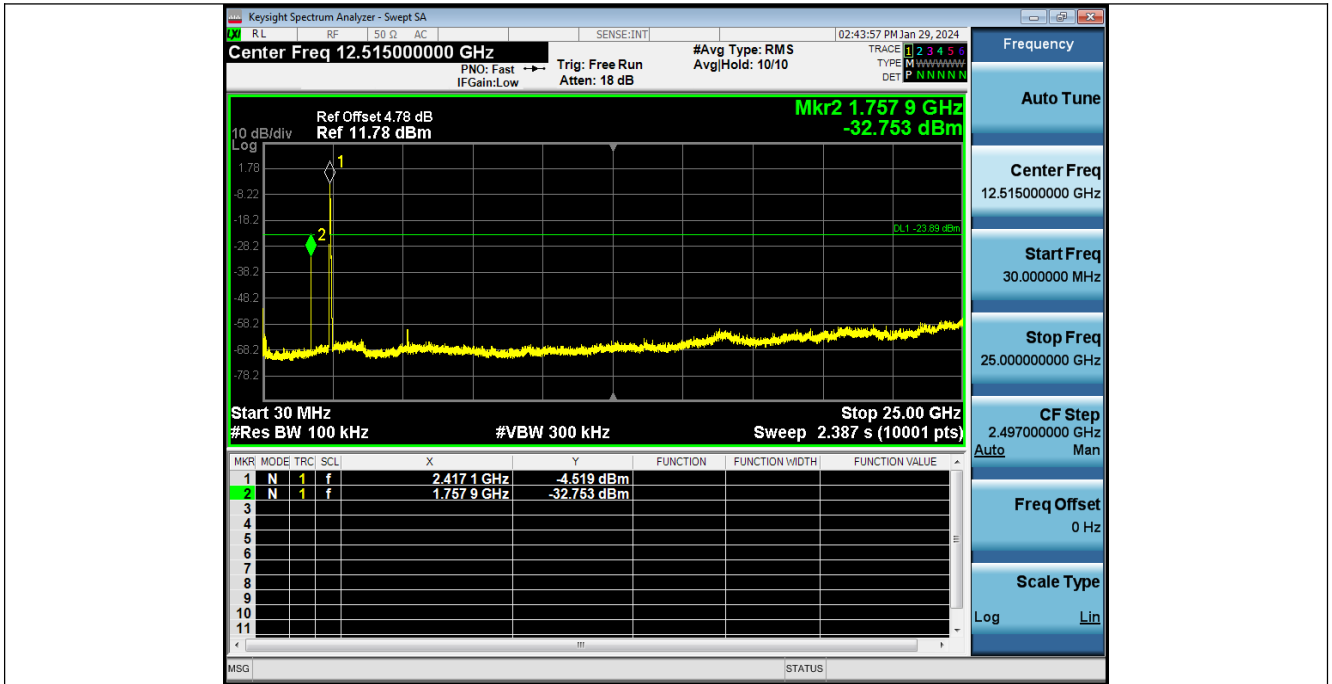
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE20)_2462



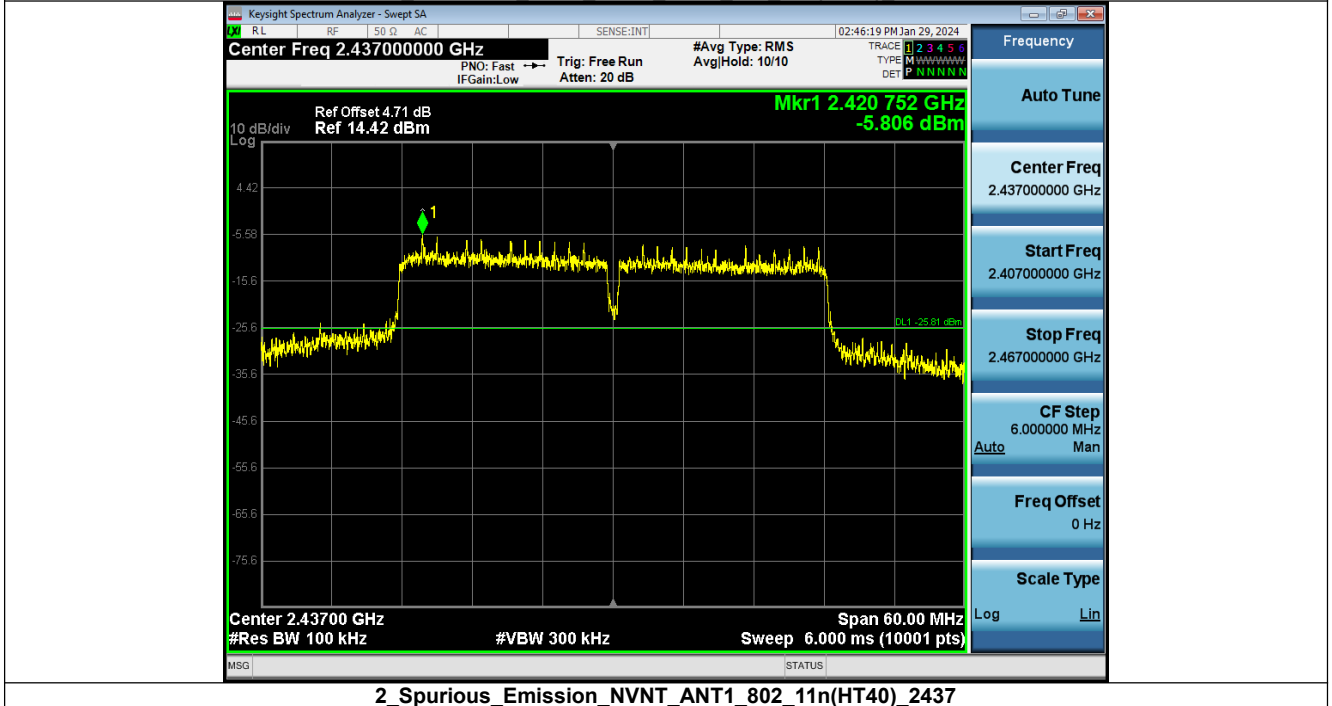
1 Reference Level NVNT_ANT1_802_11n(HT40)_2422

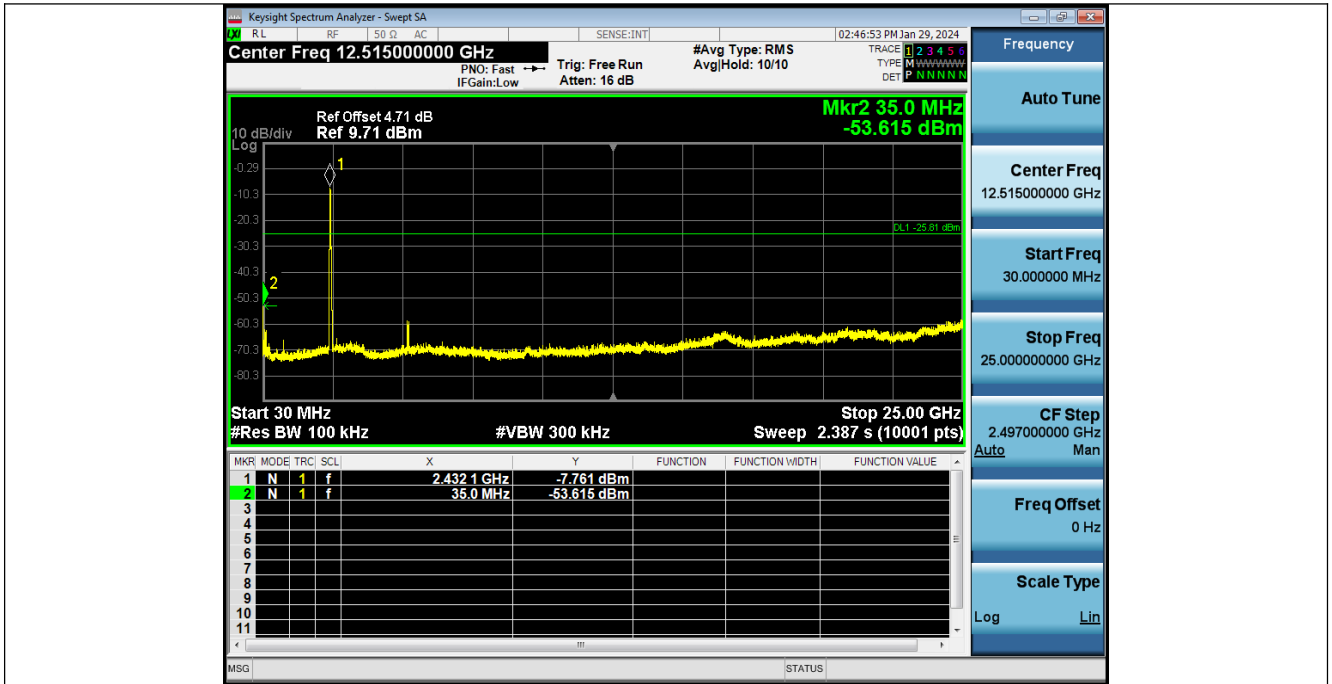


2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2422

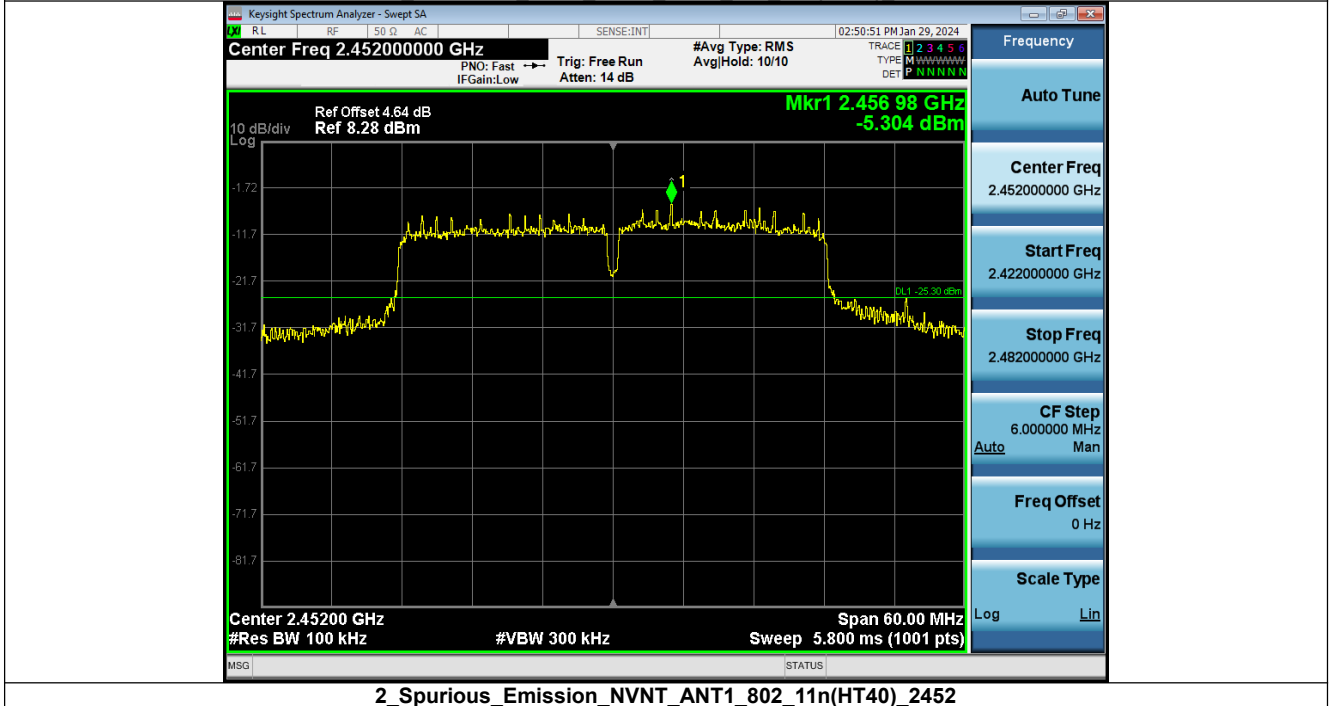


1 Reference Level NVNT_ANT1_802_11n(HT40)_2437

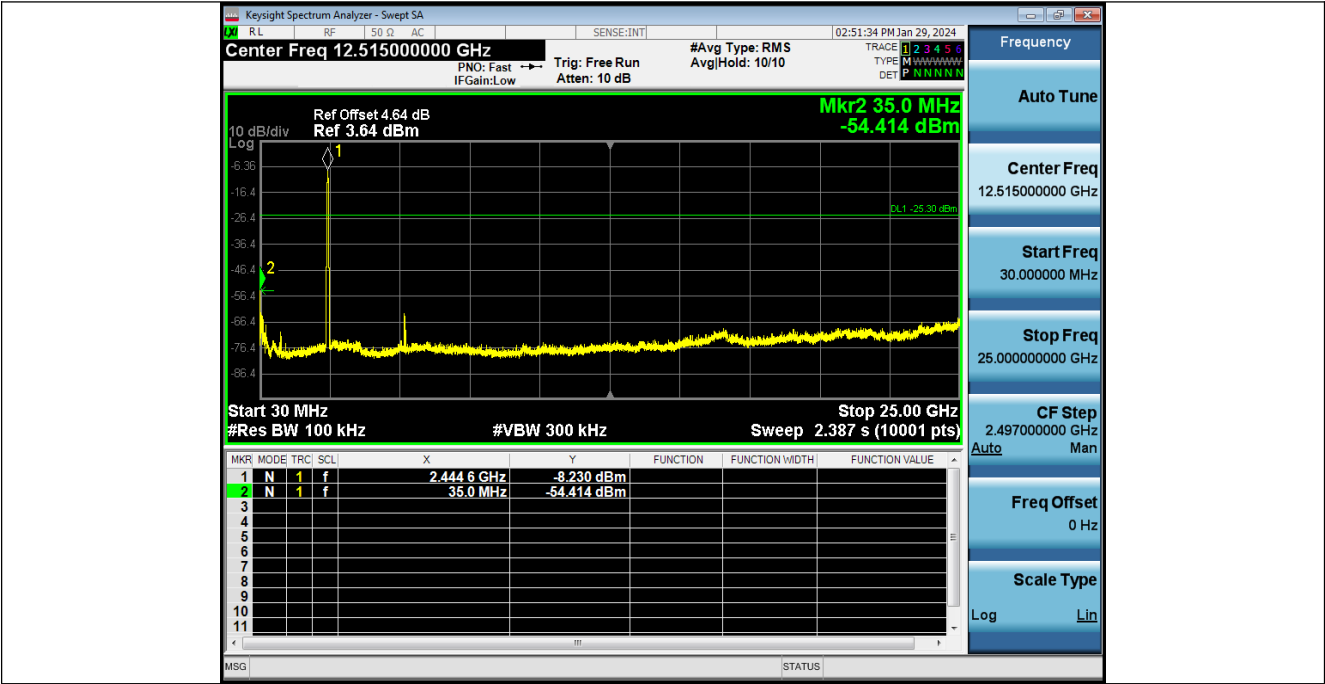




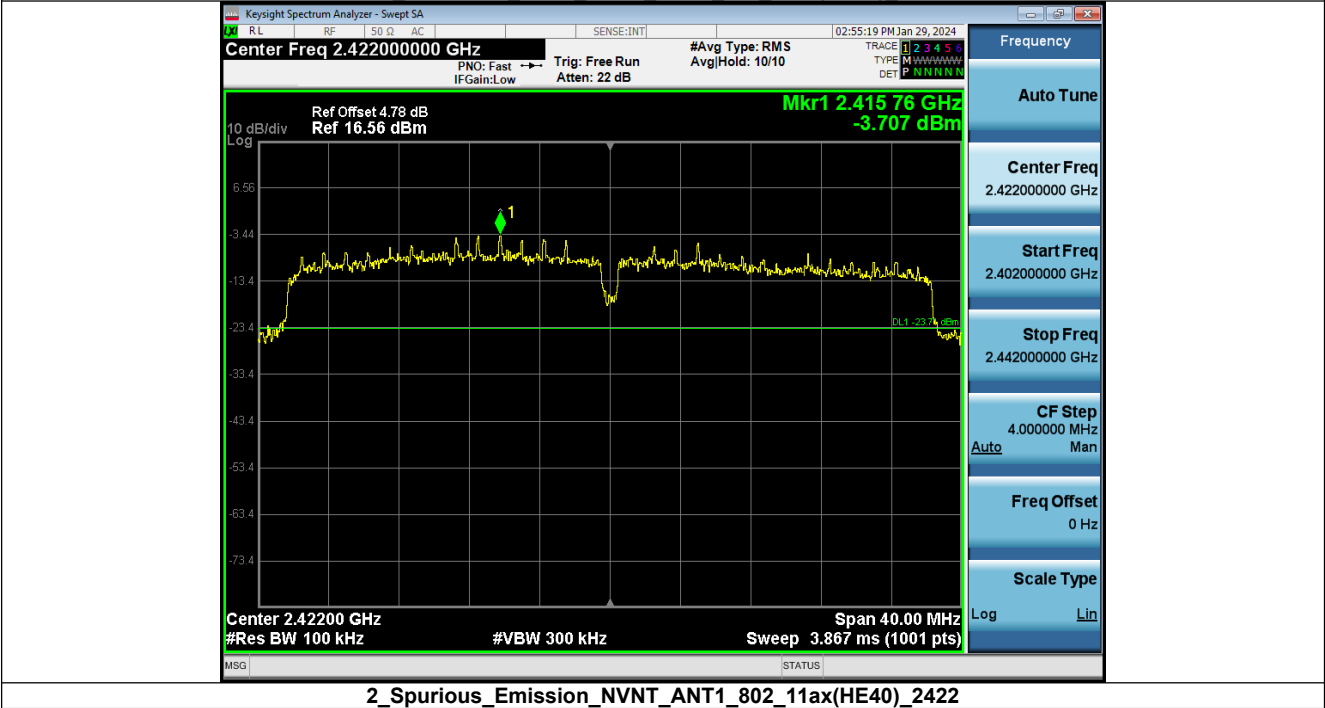
1 Reference Level NVNT_ANT1_802_11n(HT40)_2452



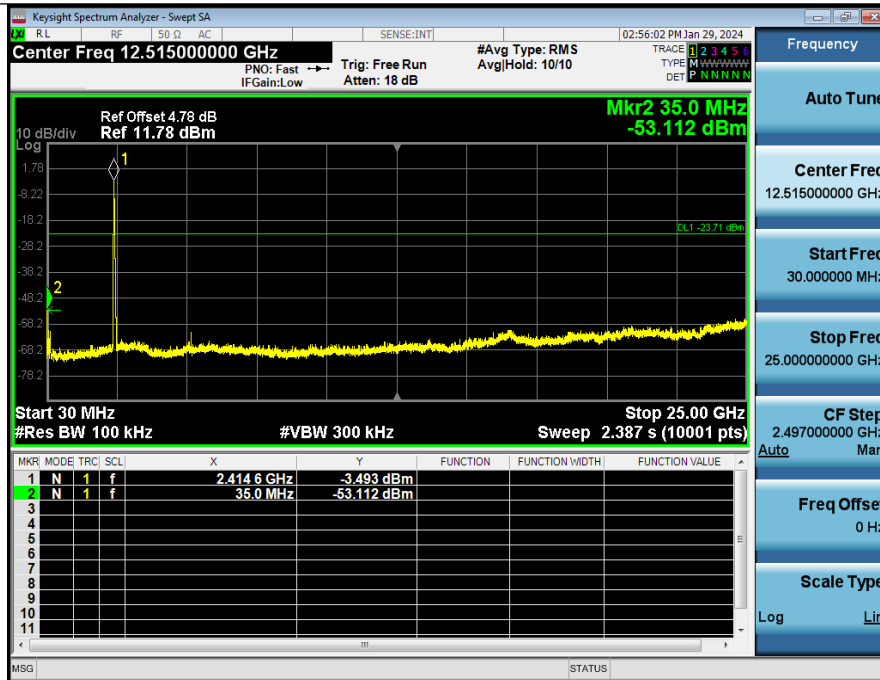
2 Spurious Emission NVNT_ANT1_802_11n(HT40)_2452



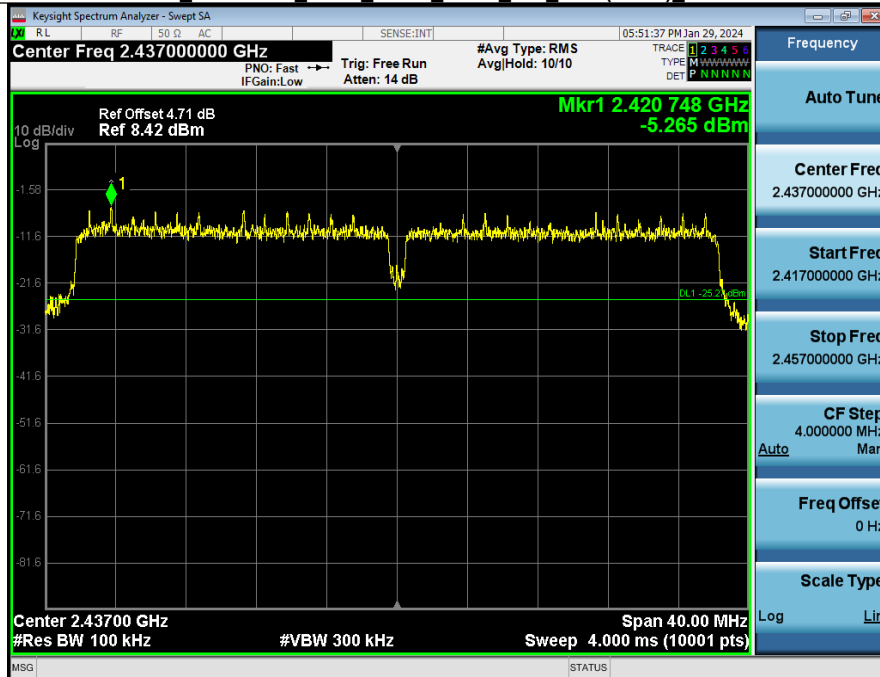
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2422



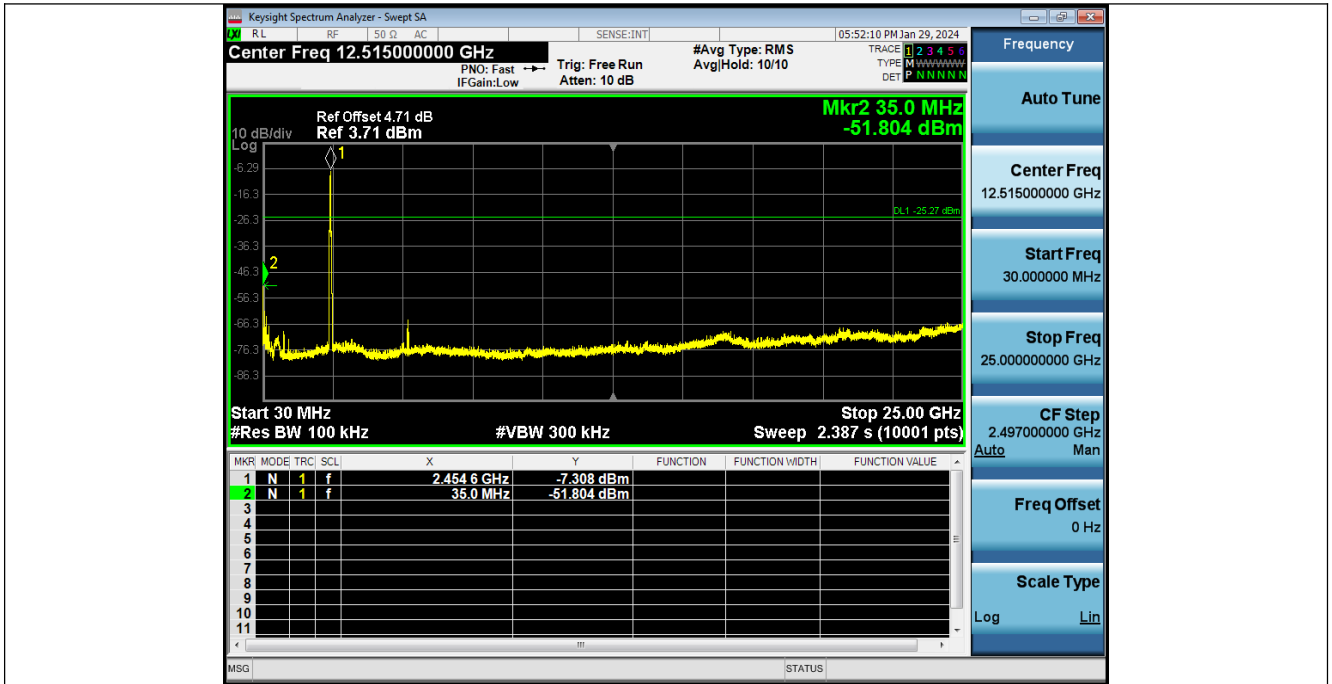
2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2422



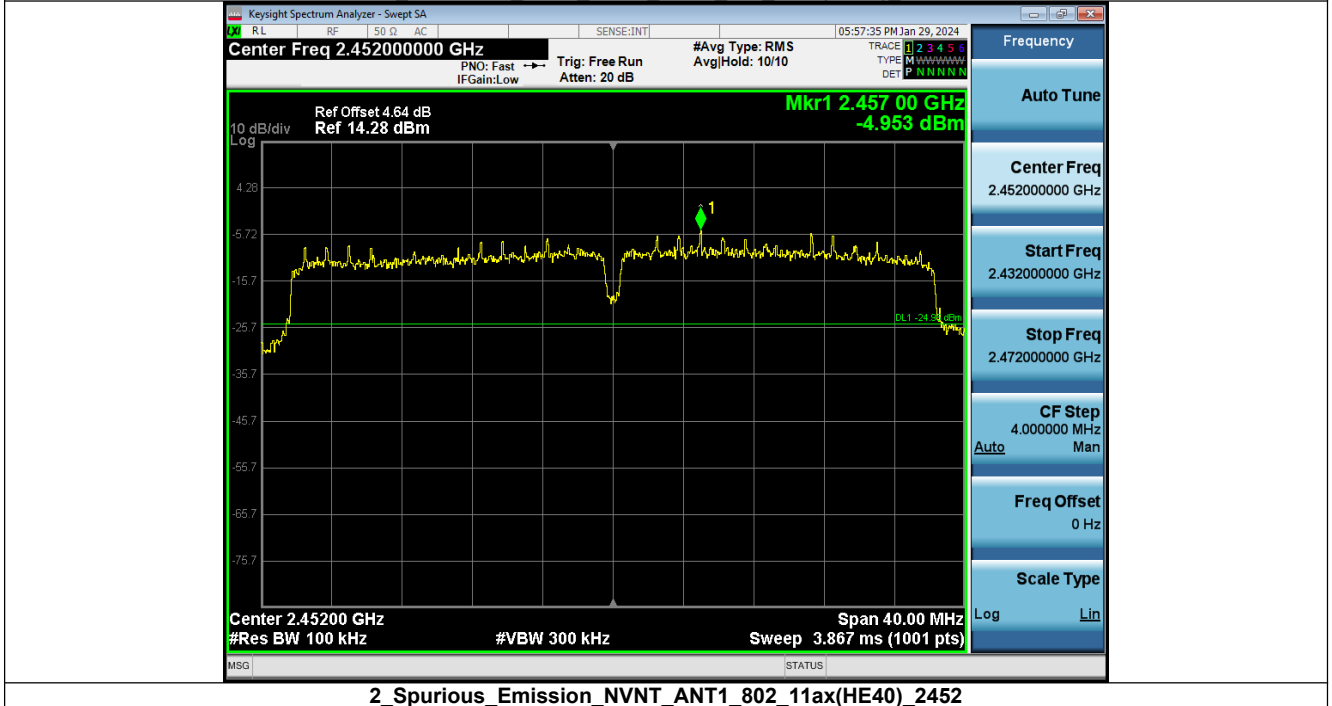
1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2437



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2437



1_Reference_Level_NVNT_ANT1_802_11ax(HE40)_2452



2_Spurious_Emission_NVNT_ANT1_802_11ax(HE40)_2452

