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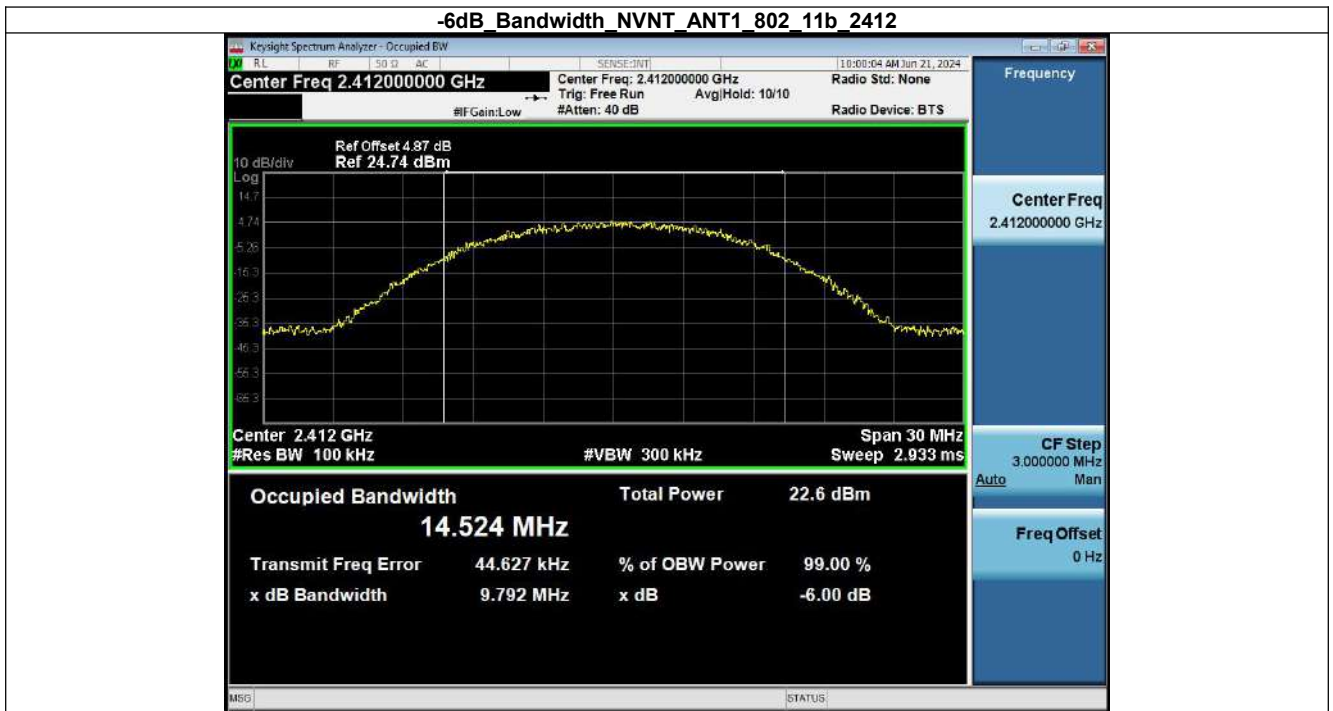
FCC ID WIFI2.4

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	9.79	500	Pass
NVNT	ANT1	802.11b	2437.00	8.85	500	Pass
NVNT	ANT1	802.11b	2462.00	9.22	500	Pass
NVNT	ANT1	802.11g	2412.00	15.45	500	Pass
NVNT	ANT1	802.11g	2437.00	15.94	500	Pass
NVNT	ANT1	802.11g	2462.00	16.01	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	17.25	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	17.45	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	17.64	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	35.98	500	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	35.59	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.65	500	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	16.33	500	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	17.87	500	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	17.78	500	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	36.57	500	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	37.84	500	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	35.75	500	Pass

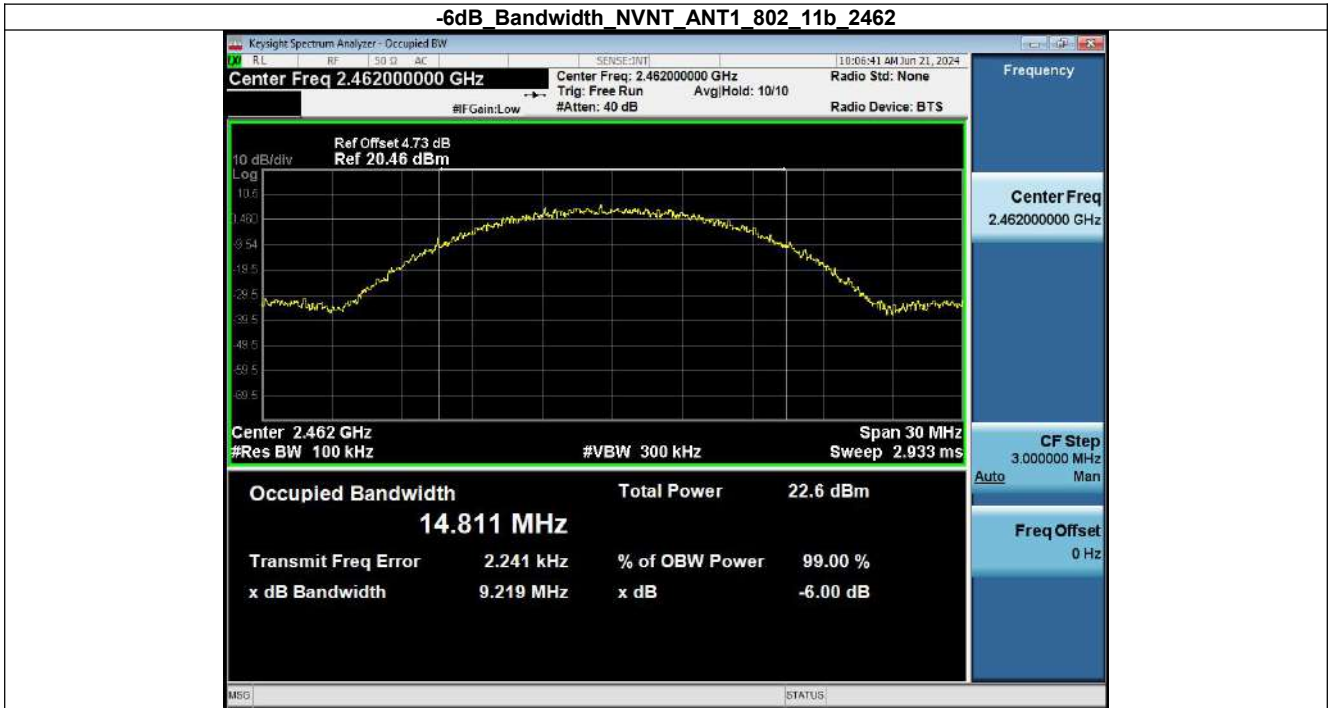
-6dB Bandwidth NVNT ANT1 802 11b 2412



-6dB Bandwidth NVNT ANT1 802 11b 2437



-6dB Bandwidth NVNT_ANT1_802_11b_2462



-6dB Bandwidth NVNT_ANT1_802_11g_2412



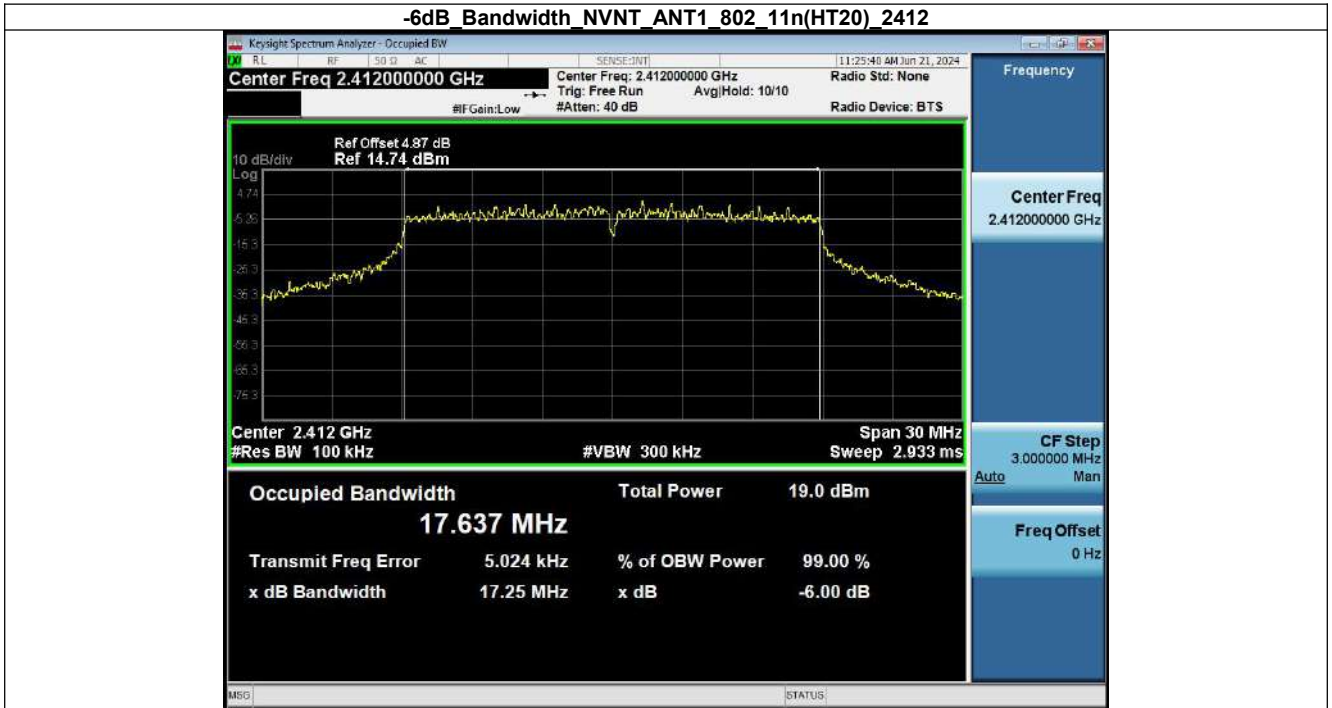
-6dB Bandwidth NVNT_ANT1_802_11g_2437



-6dB Bandwidth NVNT_ANT1_802_11g_2462



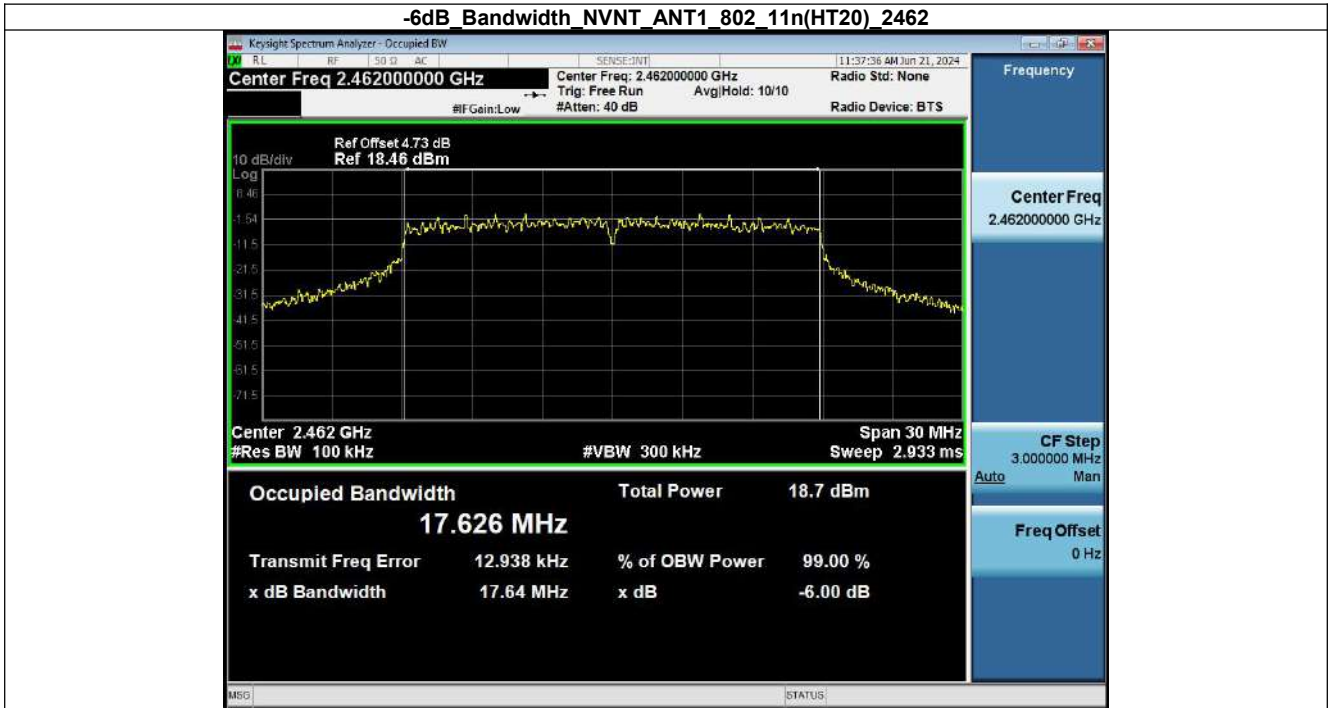
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-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2437



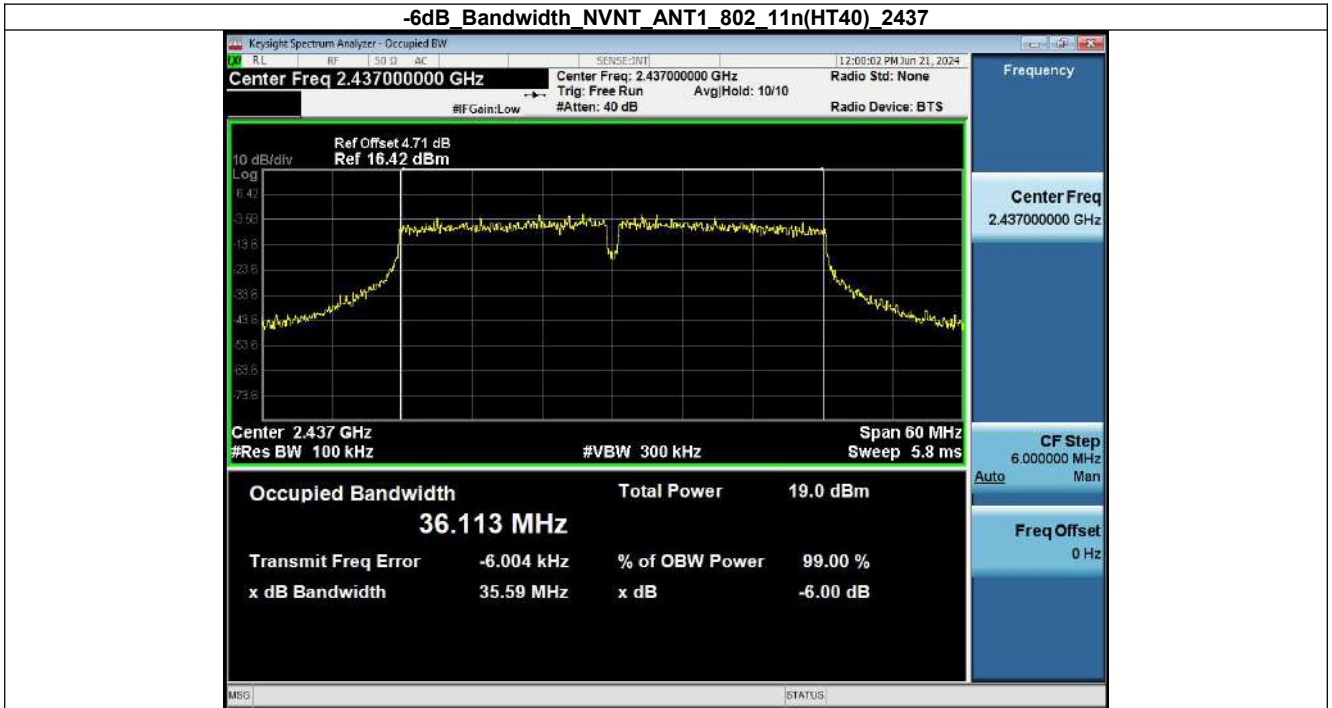
-6dB Bandwidth NVNT_ANT1_802_11n(HT20)_2462



-6dB Bandwidth NVNT_ANT1_802_11n(HT40)_2422



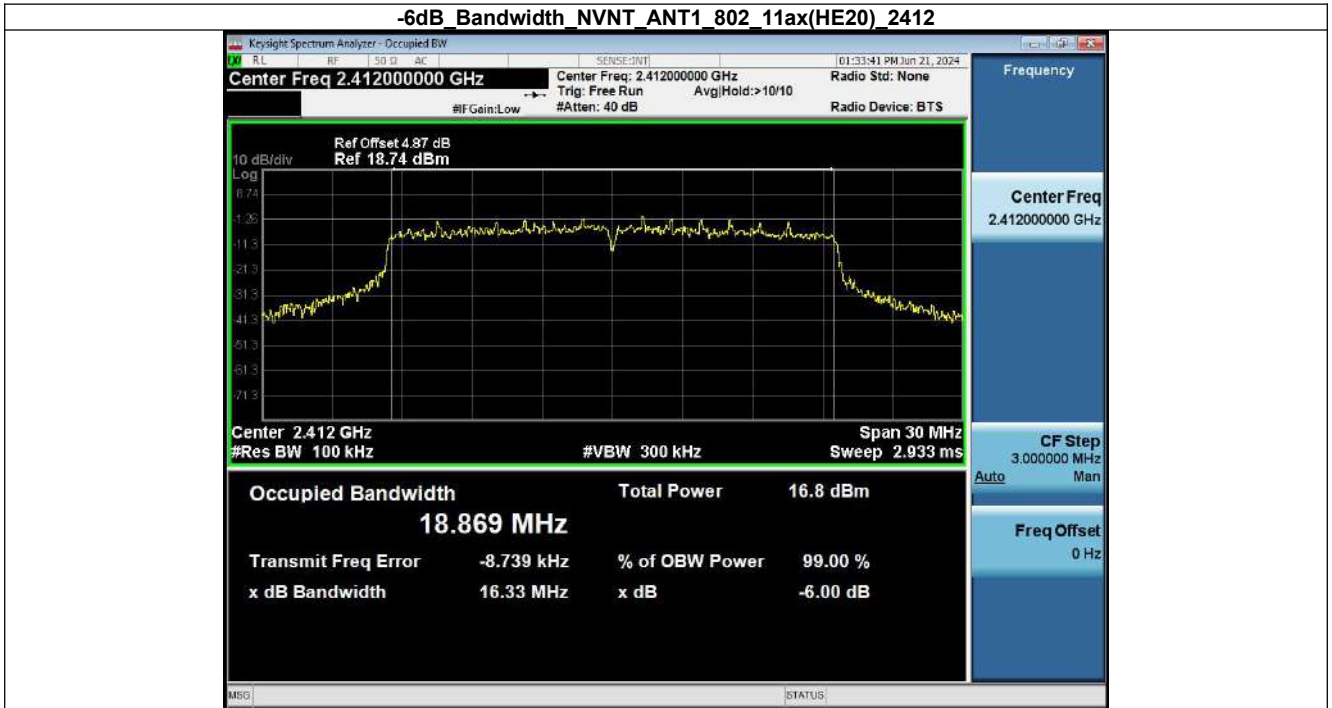
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-6dB_Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2437



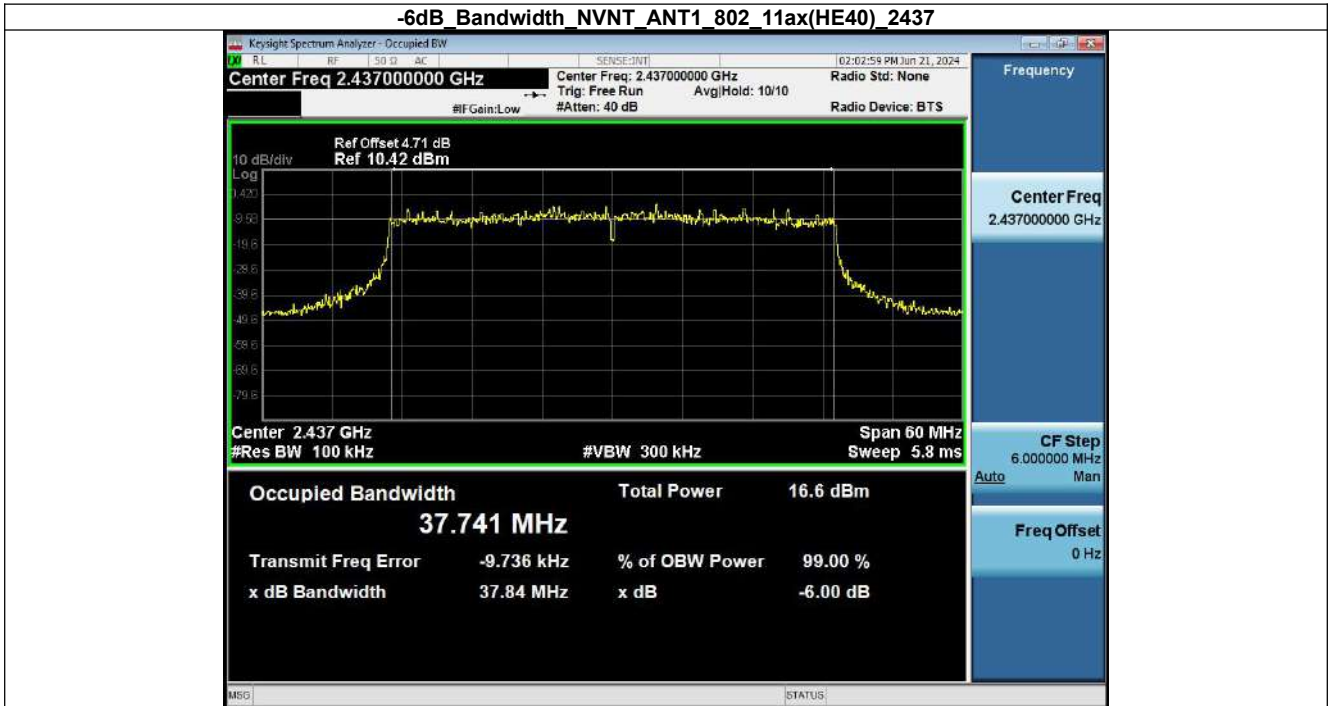
-6dB Bandwidth NVNT_ANT1_802_11ax(HE20)_2462



-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2437

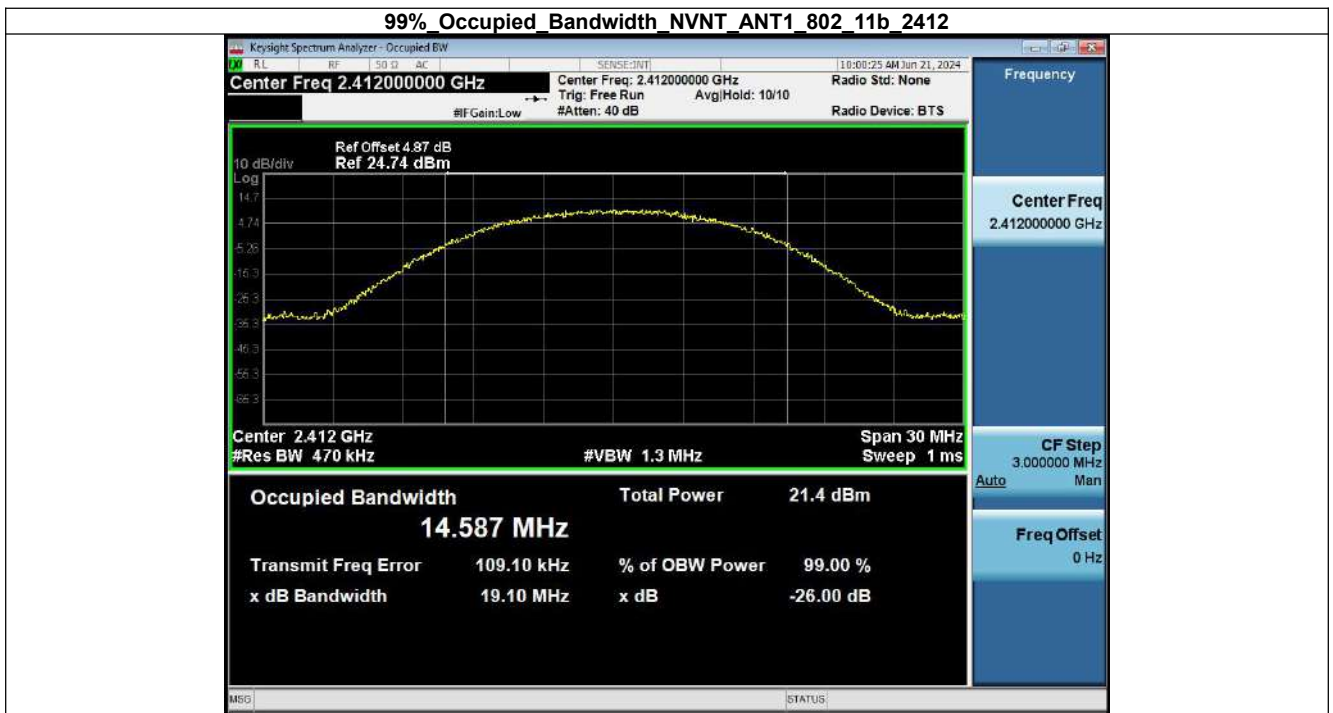


-6dB Bandwidth NVNT_ANT1_802_11ax(HE40)_2452



2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	802.11b	2412.00	14.587
NVNT	ANT1	802.11b	2437.00	14.565
NVNT	ANT1	802.11b	2462.00	14.741
NVNT	ANT1	802.11g	2412.00	18.062
NVNT	ANT1	802.11g	2437.00	17.724
NVNT	ANT1	802.11g	2462.00	17.698
NVNT	ANT1	802.11n(HT20)	2412.00	18.369
NVNT	ANT1	802.11n(HT20)	2437.00	18.313
NVNT	ANT1	802.11n(HT20)	2462.00	18.318
NVNT	ANT1	802.11n(HT40)	2422.00	36.789
NVNT	ANT1	802.11n(HT40)	2437.00	36.793
NVNT	ANT1	802.11n(HT40)	2452.00	36.850
NVNT	ANT1	802.11ax(HE20)	2412.00	19.163
NVNT	ANT1	802.11ax(HE20)	2437.00	19.134
NVNT	ANT1	802.11ax(HE20)	2462.00	19.150
NVNT	ANT1	802.11ax(HE40)	2422.00	38.140
NVNT	ANT1	802.11ax(HE40)	2437.00	38.046
NVNT	ANT1	802.11ax(HE40)	2452.00	37.963



99% Occupied Bandwidth NVNT ANT1 802_11b 2437



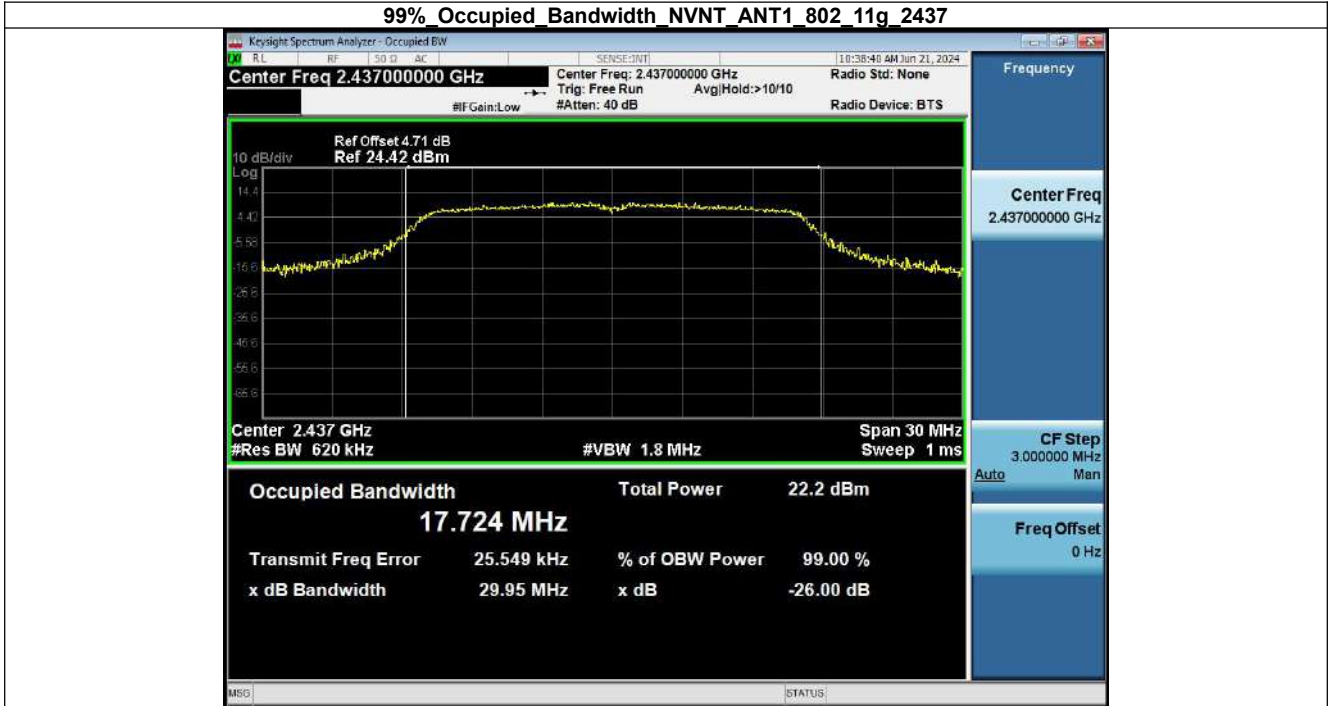
99% Occupied Bandwidth_NVNT_ANT1_802_11b_2462



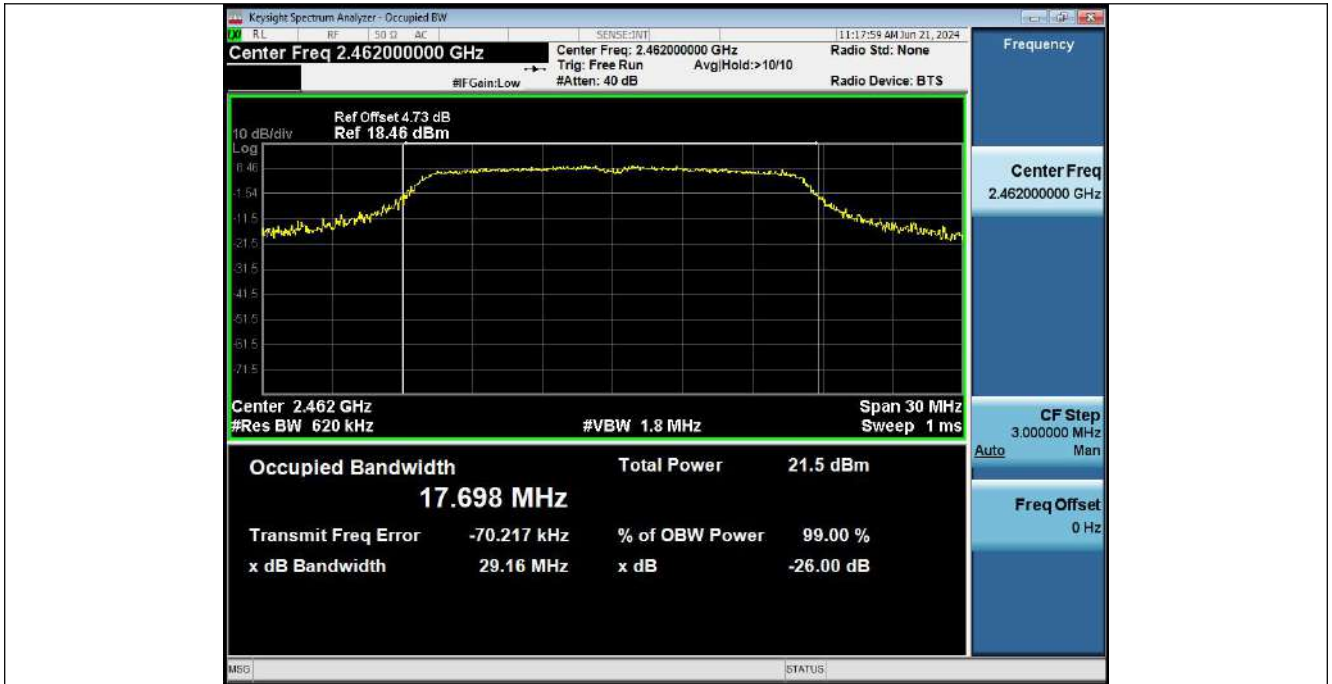
99% Occupied Bandwidth_NVNT_ANT1_802_11g_2412



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_11n(HT40)_2422



99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2437



99% Occupied Bandwidth_NVNT_ANT1_802_11n(HT40)_2452



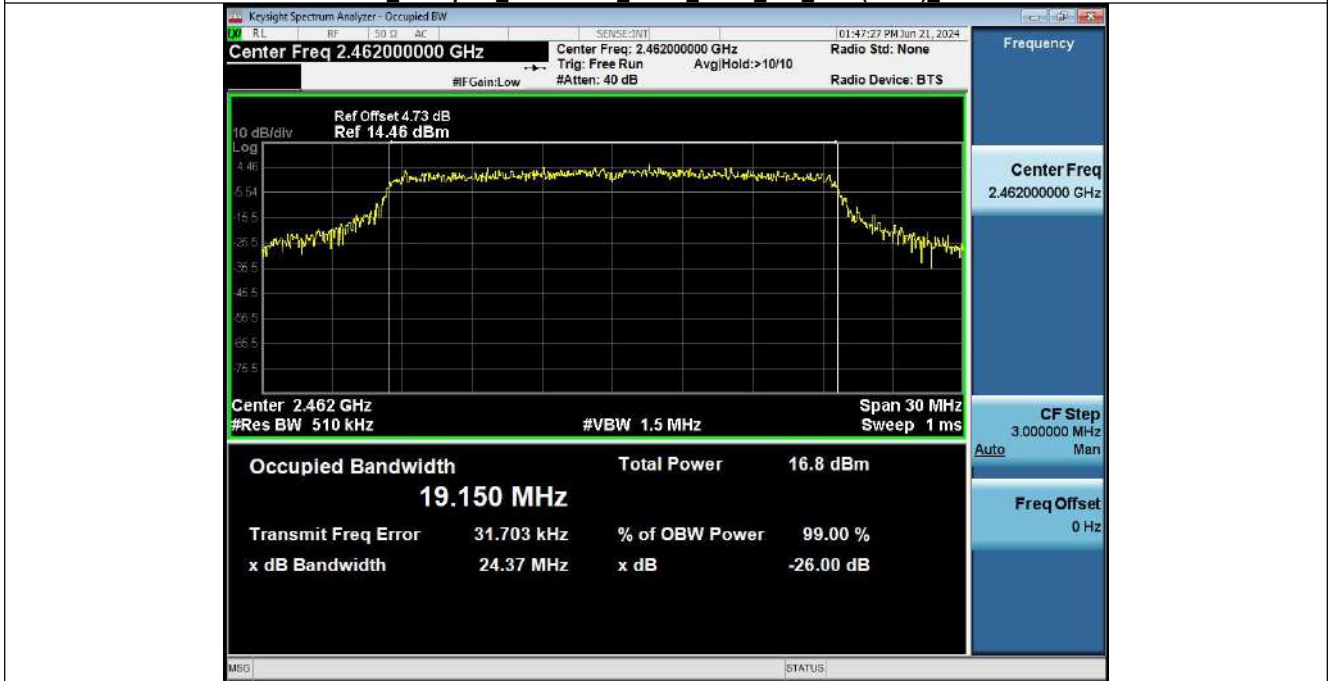
99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2412



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2437



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE20)_2462



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2422



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2437



99% Occupied Bandwidth NVNT_ANT1_802_11ax(HE40)_2452



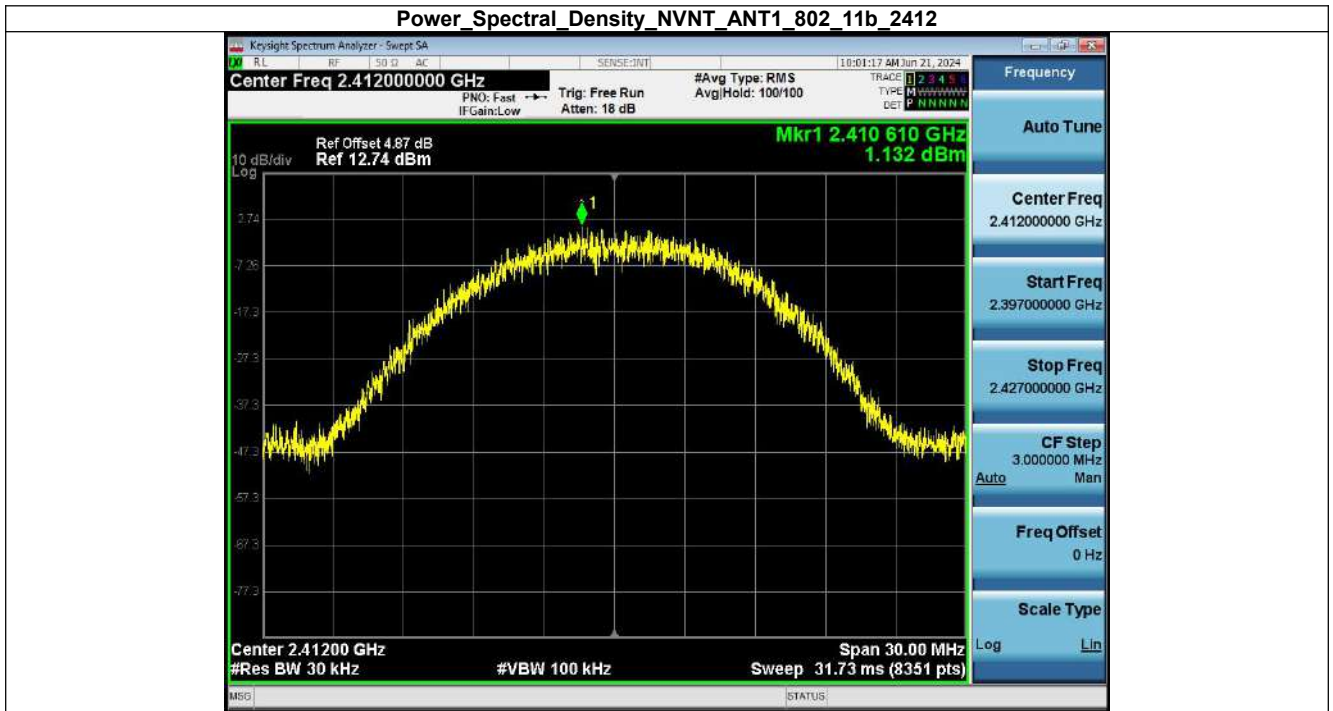
4. MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	Peak	19.57	30	Pass
NVNT	ANT1	802.11b	2437.00	Peak	19.99	30	Pass
NVNT	ANT1	802.11b	2462.00	Peak	19.58	30	Pass
NVNT	ANT1	802.11g	2412.00	Peak	18.17	30	Pass
NVNT	ANT1	802.11g	2437.00	Peak	18.04	30	Pass
NVNT	ANT1	802.11g	2462.00	Peak	18.86	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	Peak	18.20	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	Peak	18.81	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	Peak	18.10	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	Peak	16.74	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	Peak	16.79	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	Peak	16.17	30	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	Peak	18.74	30	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	Peak	18.63	30	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	Peak	18.52	30	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	Peak	16.01	30	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	Peak	16.53	30	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	Peak	16.09	30	Pass

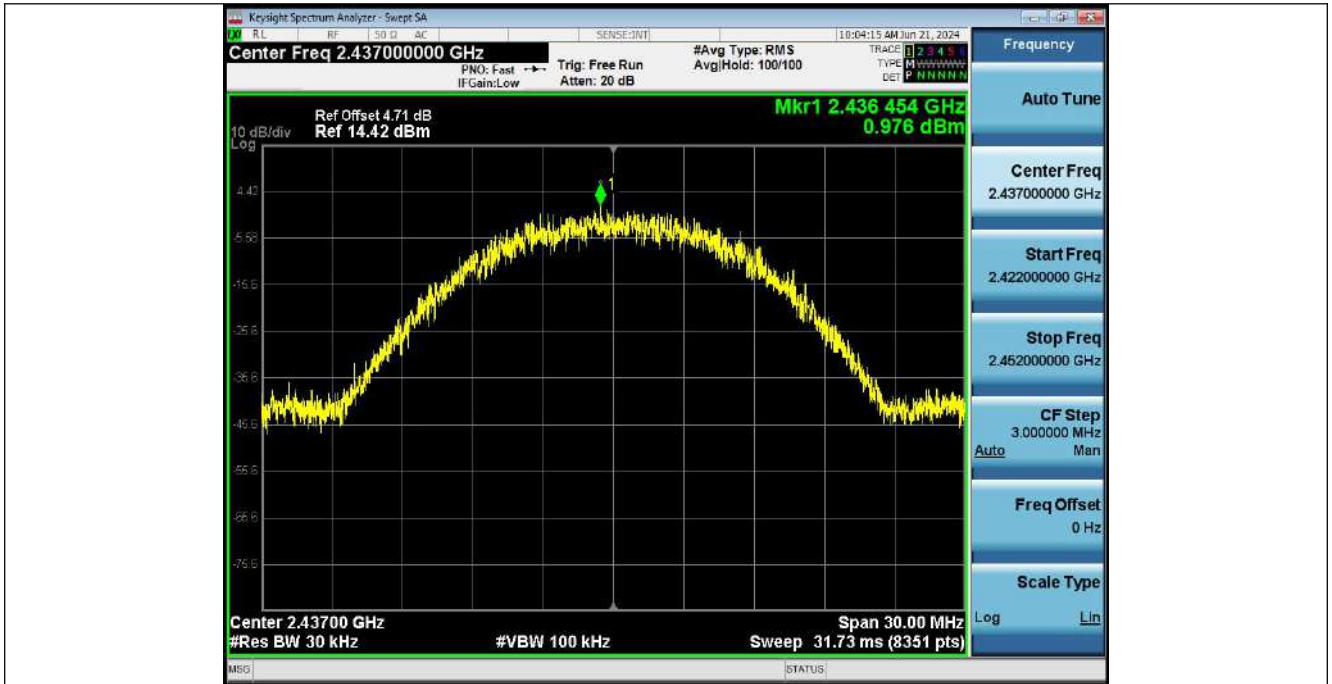
Remark: 1. the duty cycle is 100%
2. Cable loss is included

5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD(dBm/30kHz)	RB factor(dB)	PSD(dBm/3kHz)	limit(dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.13	-10.00	-8.87	8	Pass
NVNT	ANT1	802.11b	2437.00	0.98	-10.00	-9.02	8	Pass
NVNT	ANT1	802.11b	2462.00	1.03	-10.00	-8.97	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.78	-10.00	-10.78	8	Pass
NVNT	ANT1	802.11g	2437.00	0.43	-10.00	-9.57	8	Pass
NVNT	ANT1	802.11g	2462.00	-0.14	-10.00	-10.14	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	-3.94	-10.00	-13.94	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-4.05	-10.00	-14.05	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-4.47	-10.00	-14.47	8	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	-7.19	-10.00	-17.19	8	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	-6.94	-10.00	-16.94	8	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	-6.97	-10.00	-16.97	8	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	-5.85	-10.00	-15.85	8	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	-6.70	-10.00	-16.70	8	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	-7.40	-10.00	-17.40	8	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	-9.15	-10.00	-19.15	8	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	-9.67	-10.00	-19.67	8	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	-9.59	-10.00	-19.59	8	Pass



Power_Spectral_Density_NVNT_ANT1_802_11b_2437



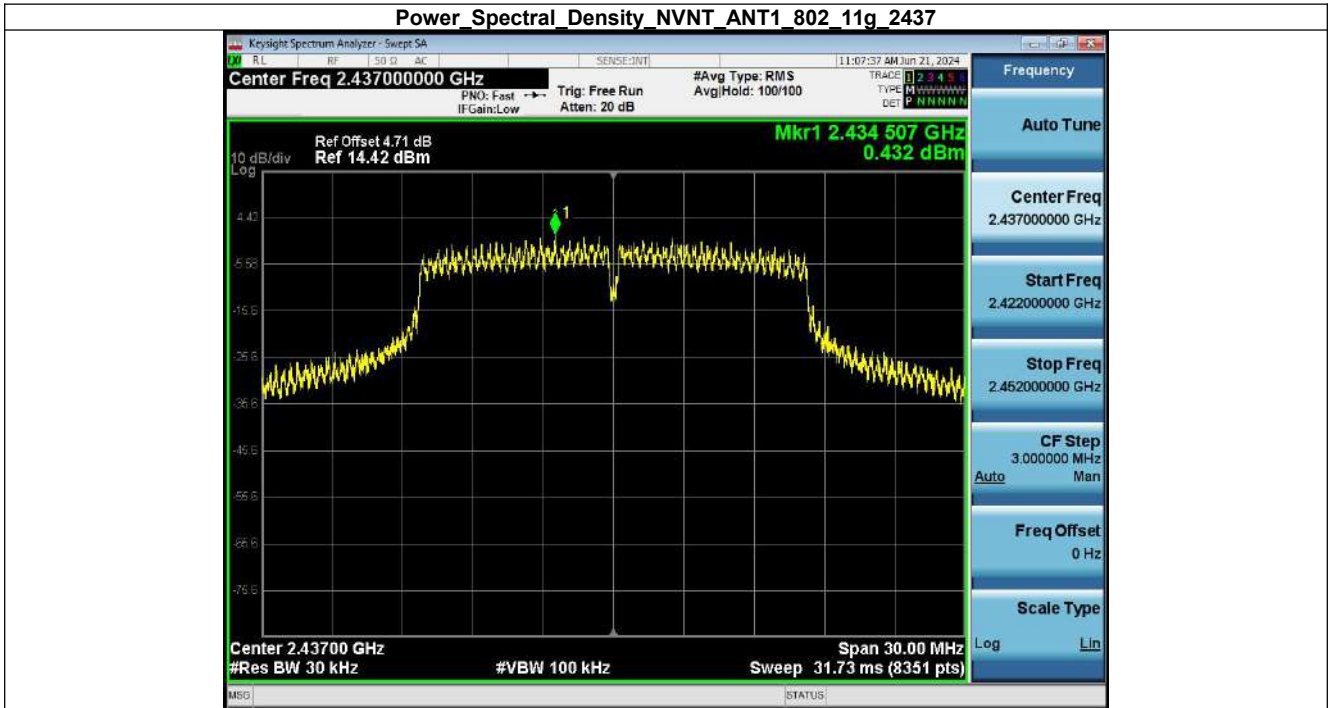
Power_Spectral_Density_NVNT_ANT1_802_11b_2462



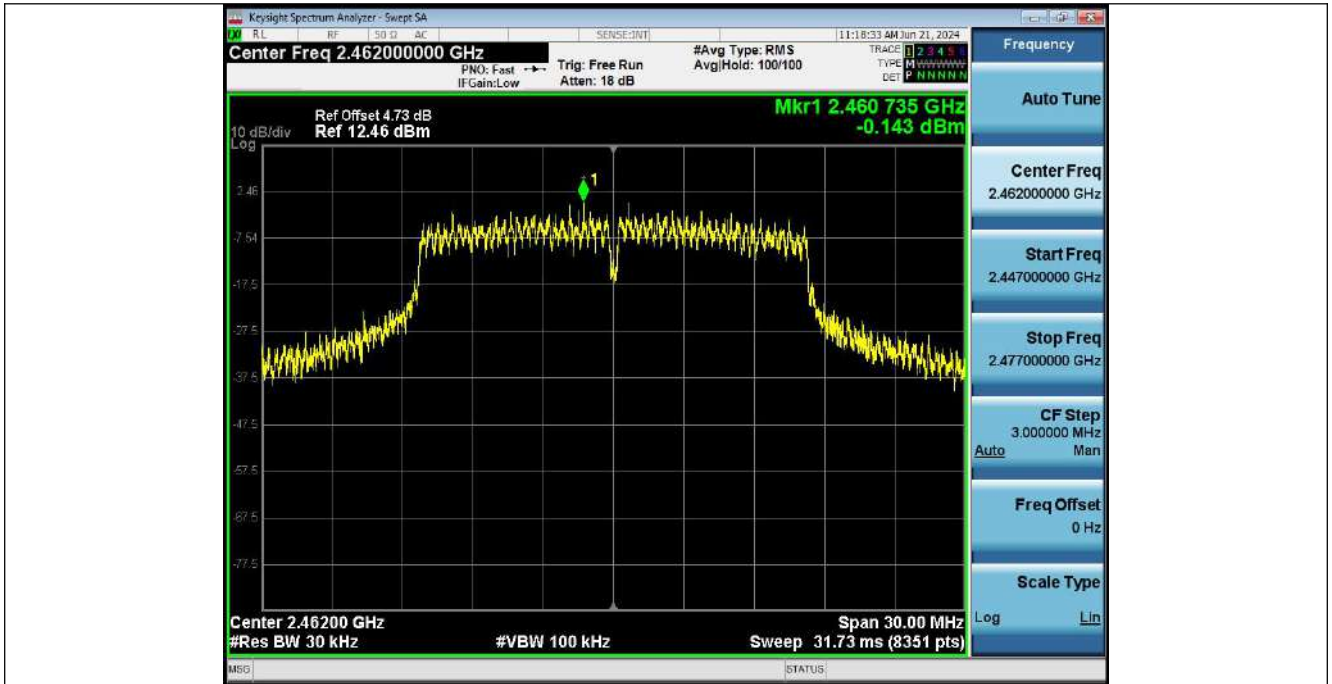
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



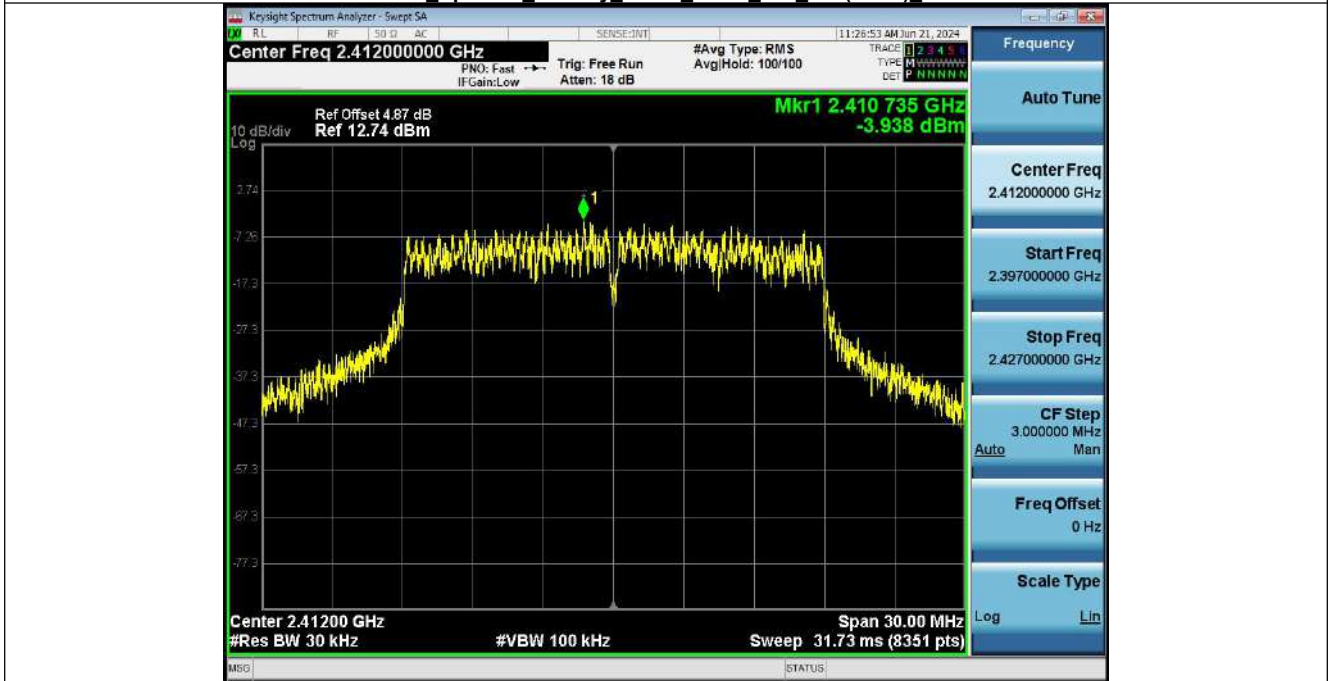
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



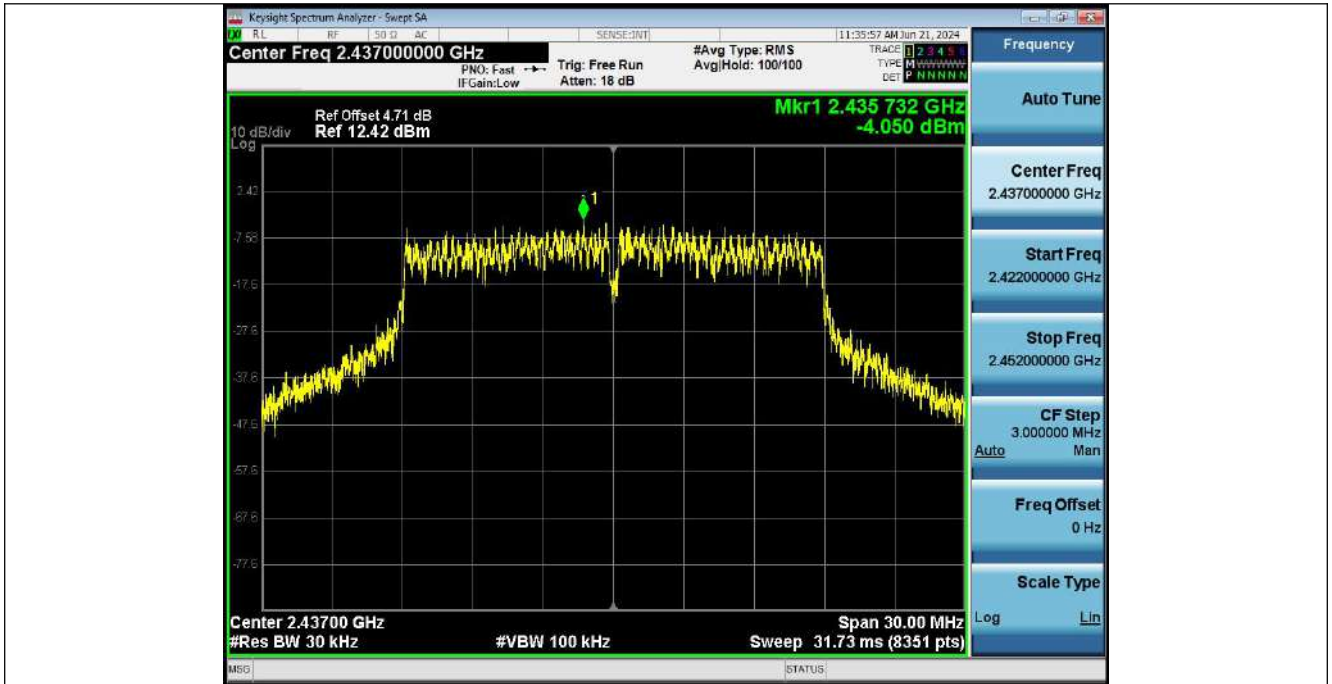
Power_Spectral_Density_NVNT_ANT1_802_11g_2462



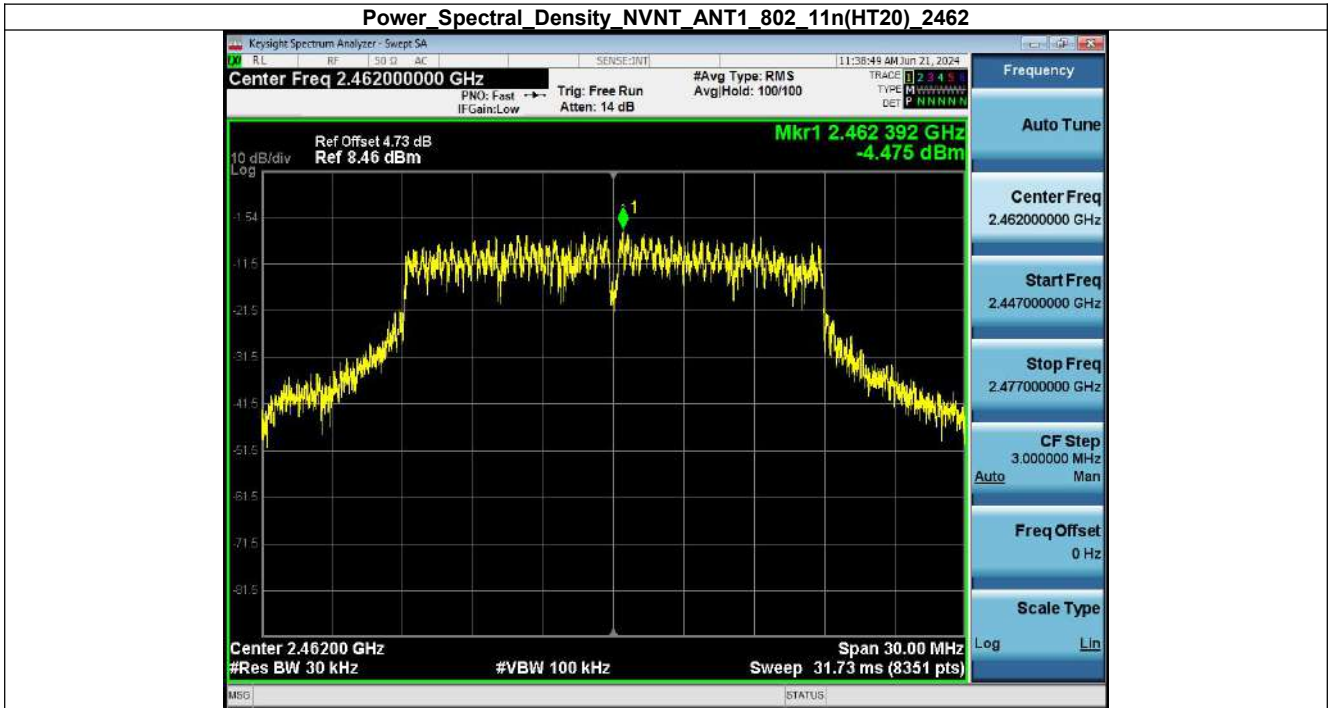
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2412



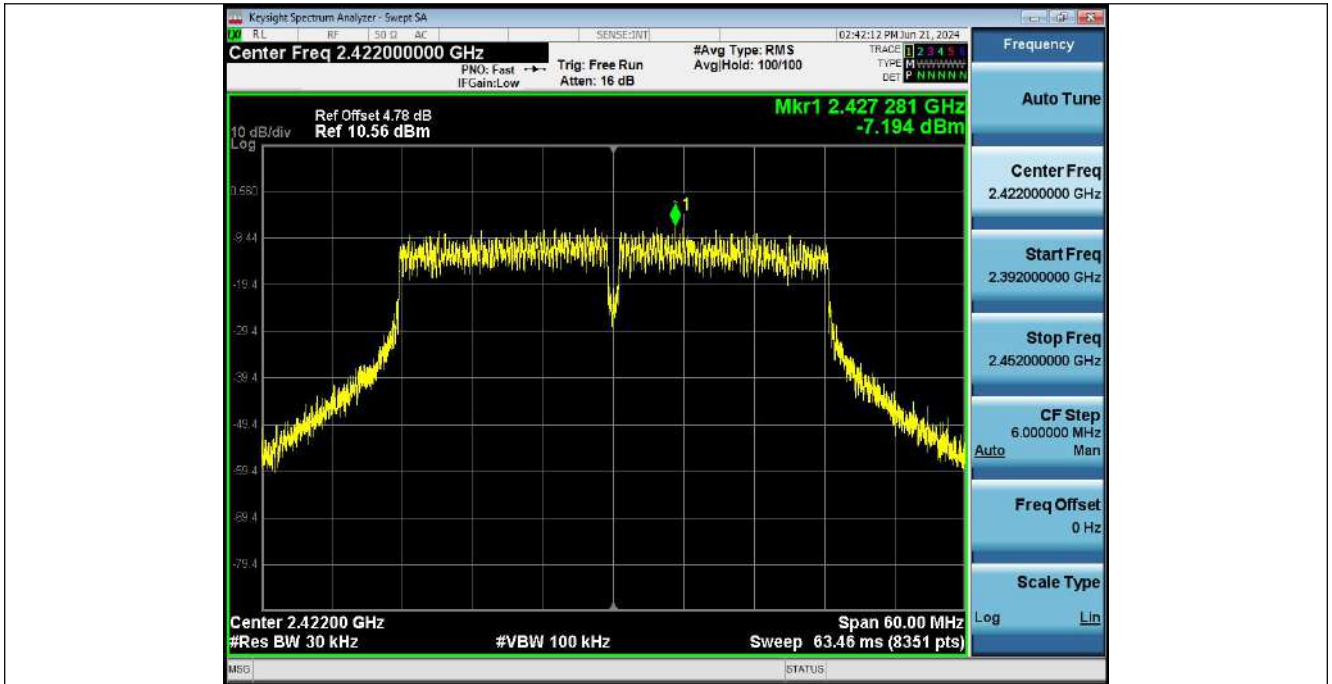
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2437



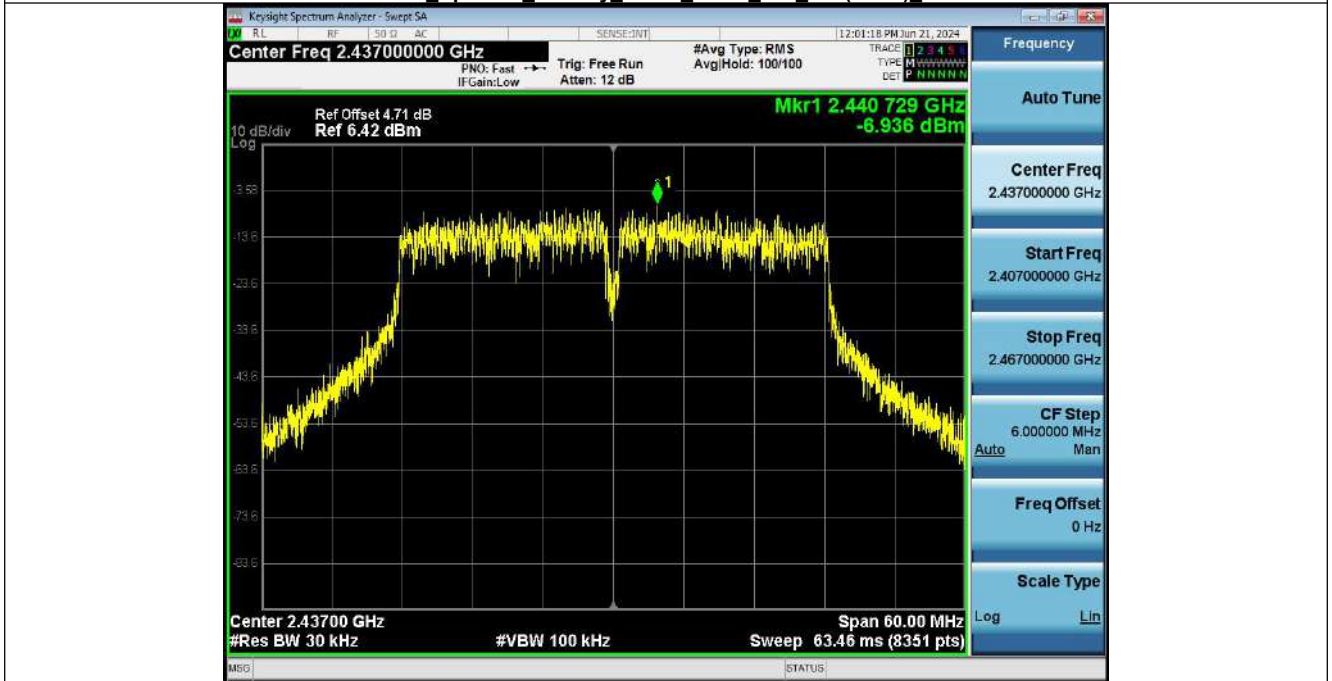
Power Spectral Density_NVNT_ANT1_802_11n(HT20)_2462



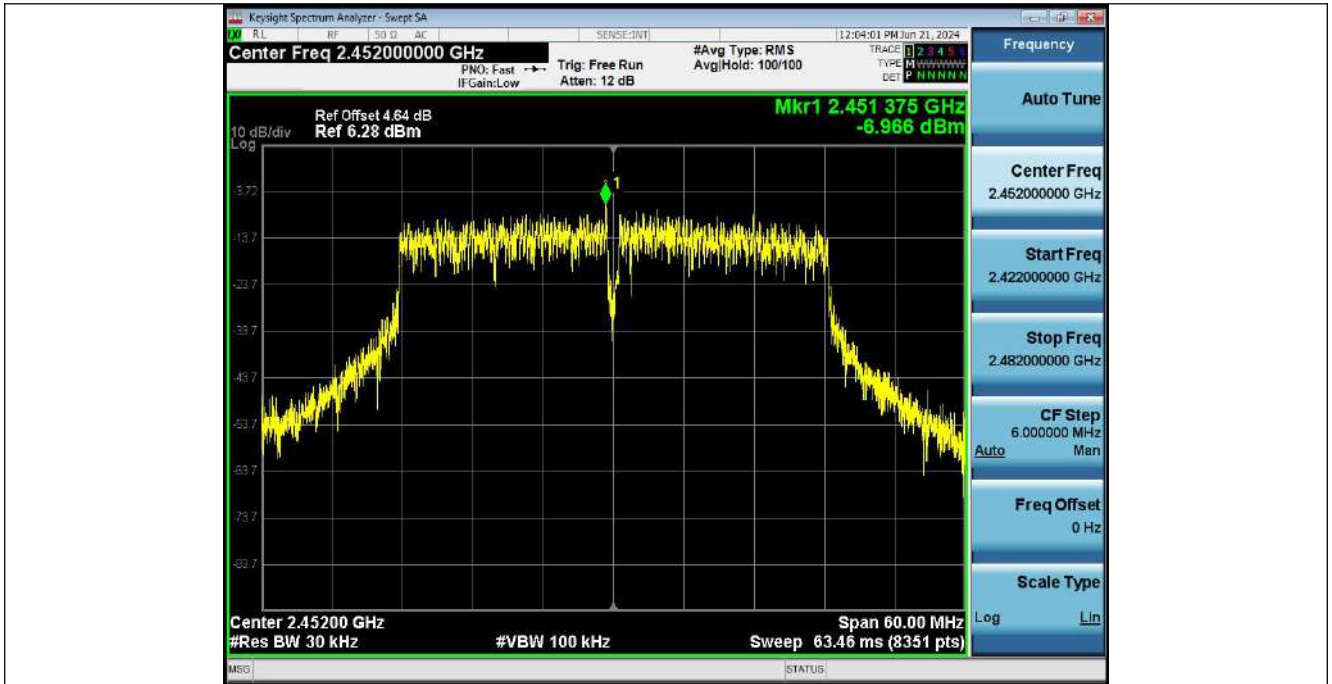
Power Spectral Density_NVNT_ANT1_802_11n(HT40)_2422



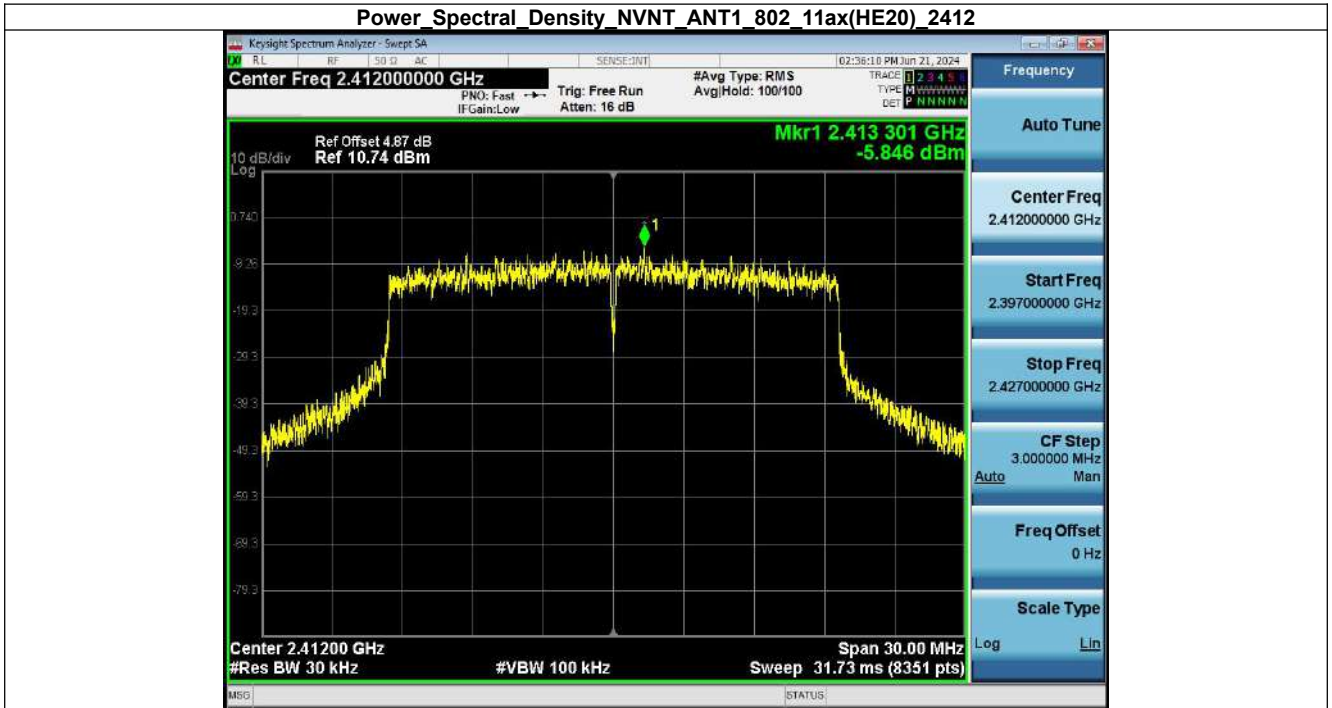
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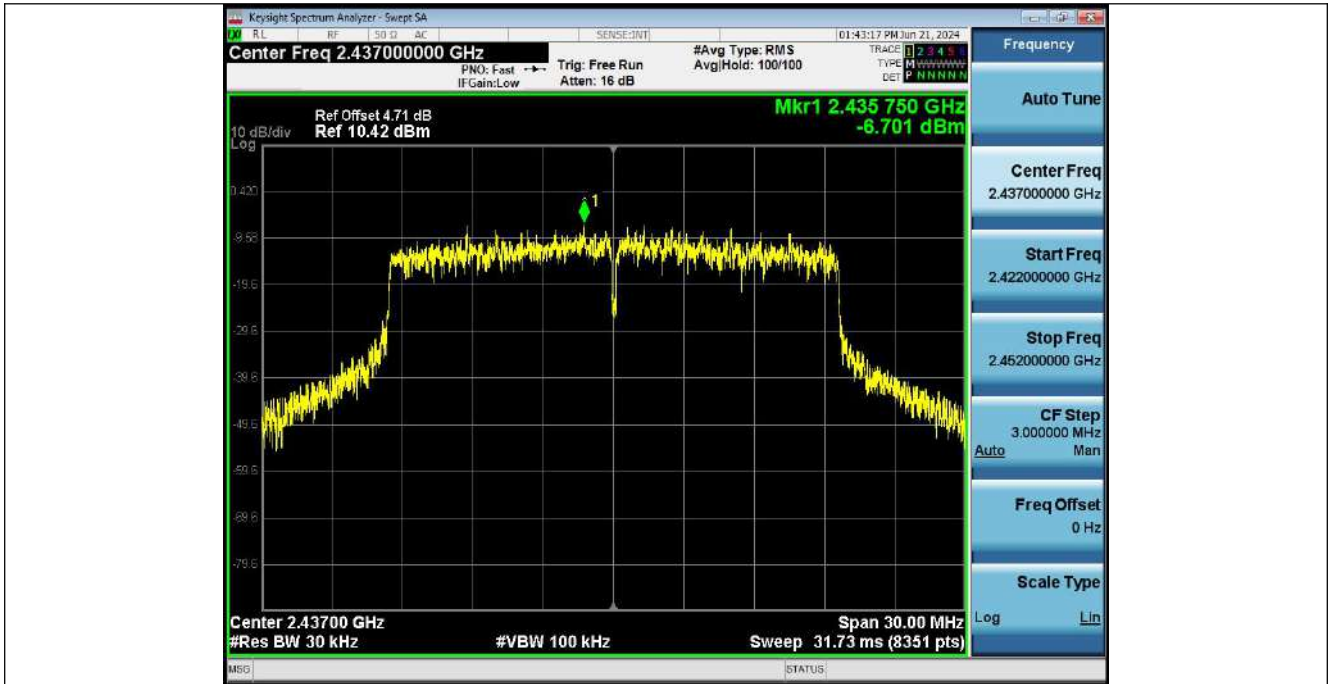
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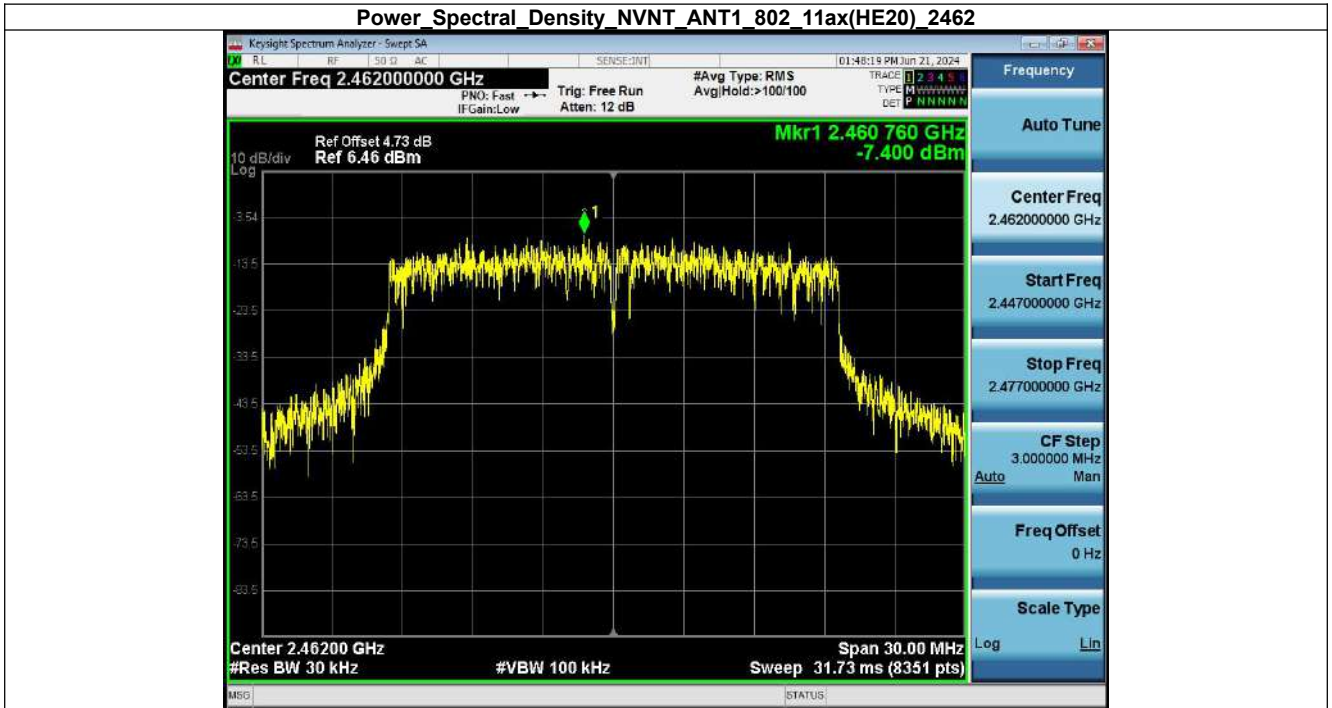
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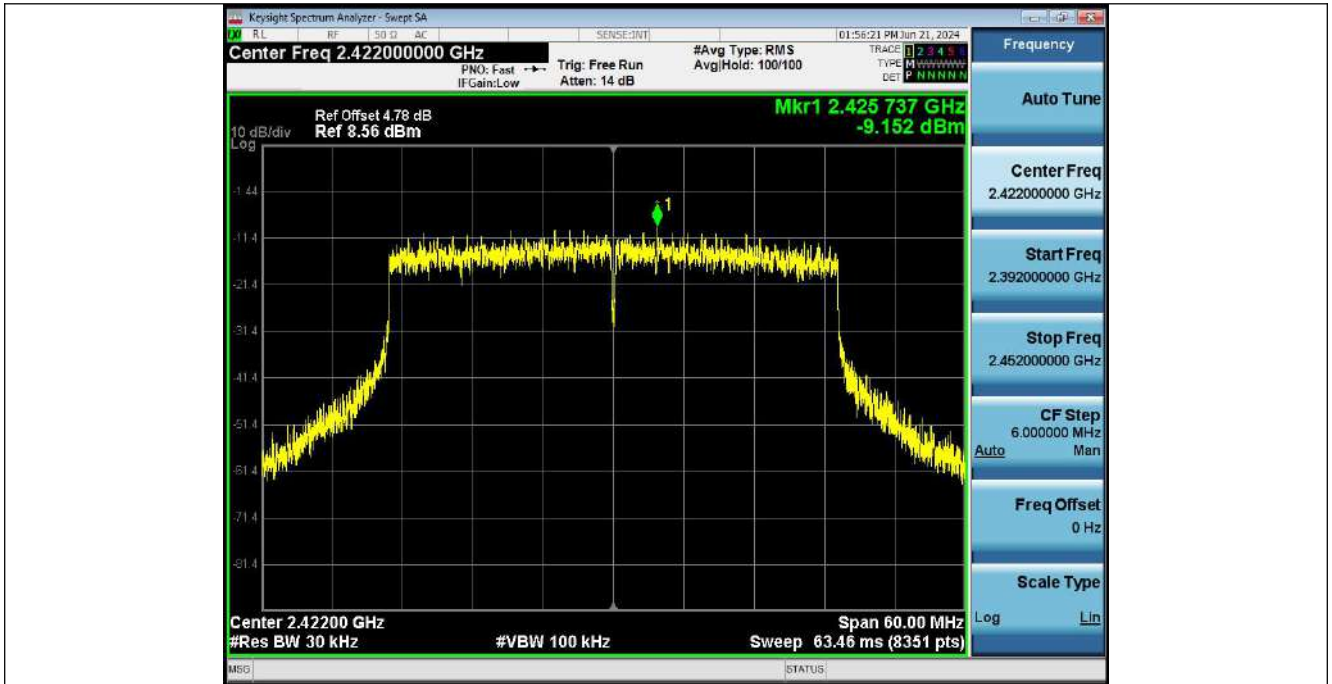
Power Spectral Density_NVNT_ANT1_802_11ax(HE20)_2437



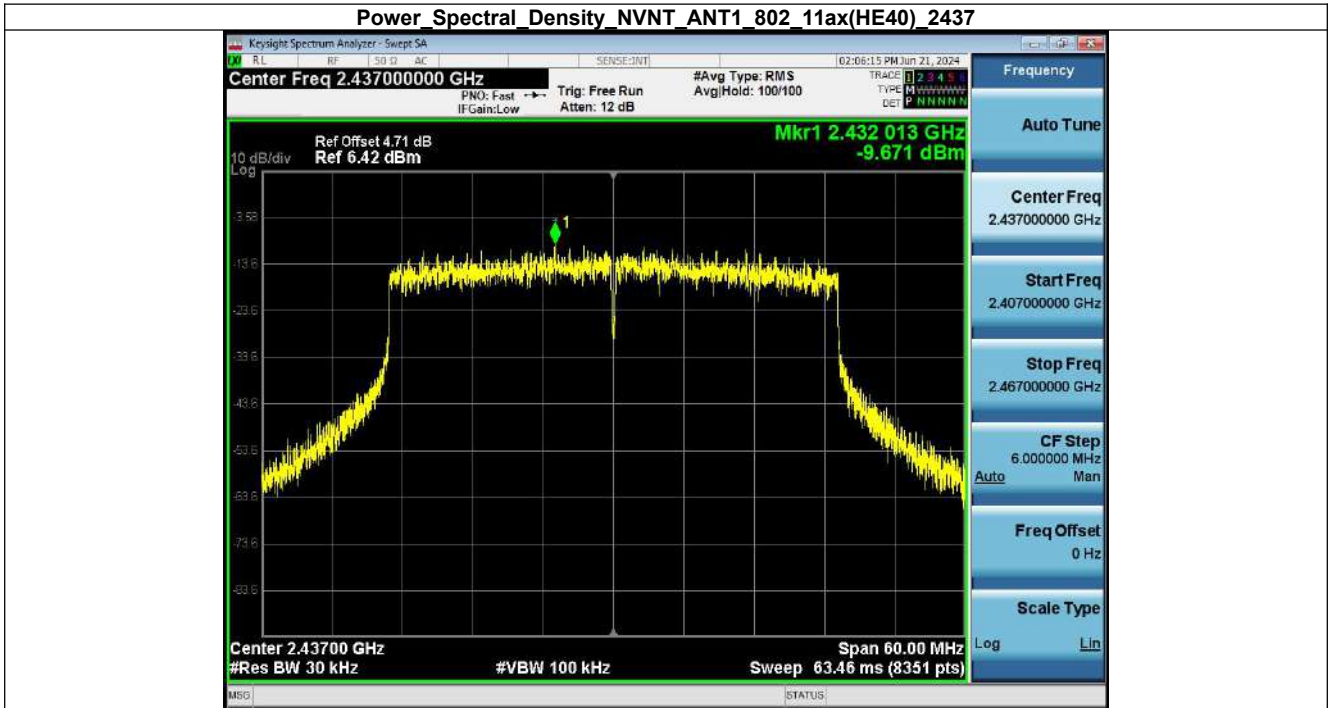
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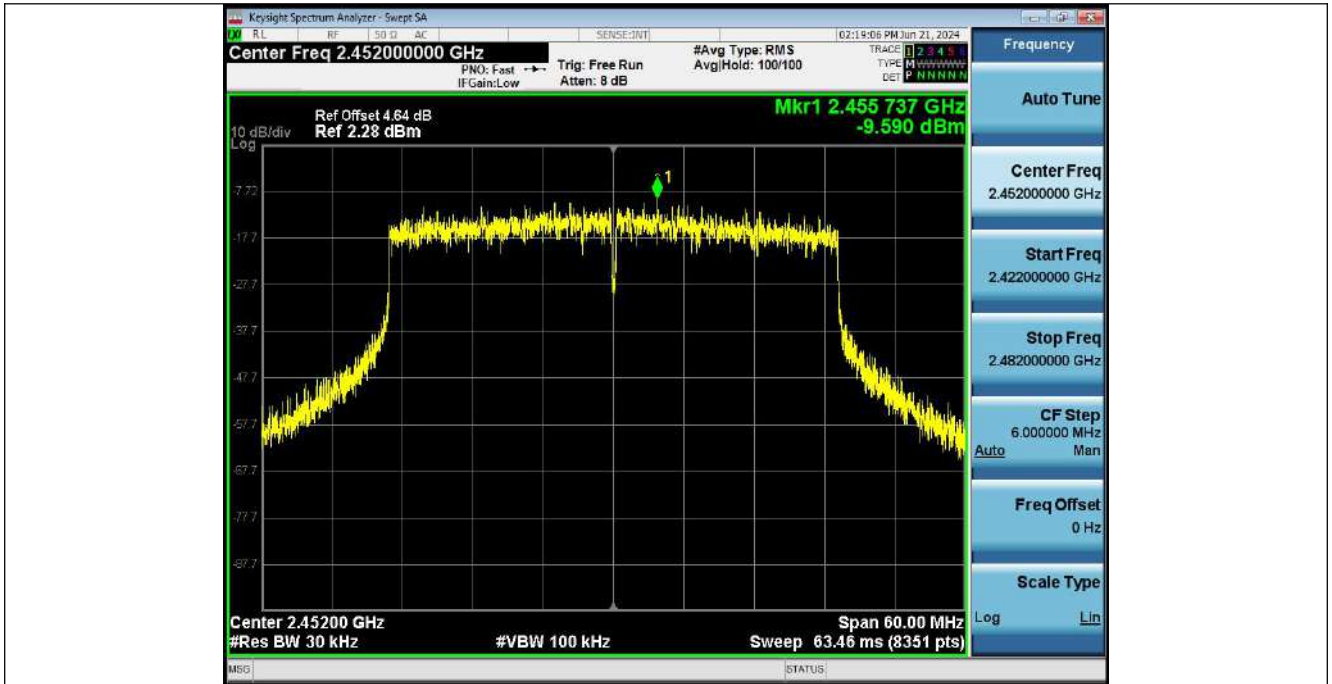
Power Spectral Density_NVNT_ANT1_802_11ax(HE40)_2422



Power Spectral Density_NVNT_ANT1_802_11ax(HE40)_2437



Power Spectral Density_NVNT_ANT1_802_11ax(HE40)_2452



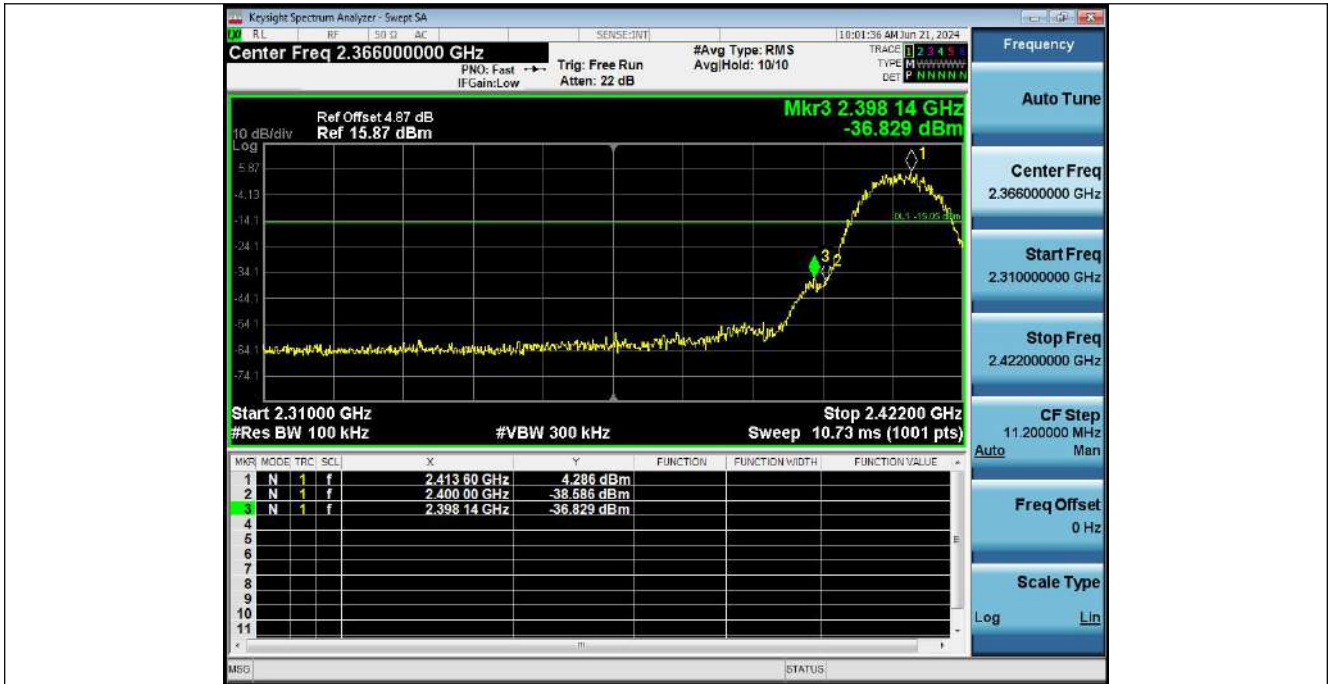
6. Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.144	-36.829	-15.049	Pass
NVNT	ANT1	802.11b	2462.00	2487.760	-49.687	-15.047	Pass
NVNT	ANT1	802.11g	2412.00	2399.824	-23.985	-17.333	Pass
NVNT	ANT1	802.11g	2462.00	2483.680	-39.688	-16.570	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.824	-29.453	-21.299	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2486.080	-47.199	-20.391	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	2399.496	-33.478	-24.287	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	2483.612	-46.702	-22.973	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	2399.264	-33.101	-19.924	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	2485.168	-49.417	-20.969	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	2399.496	-36.613	-23.532	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	2484.496	-47.966	-23.752	Pass

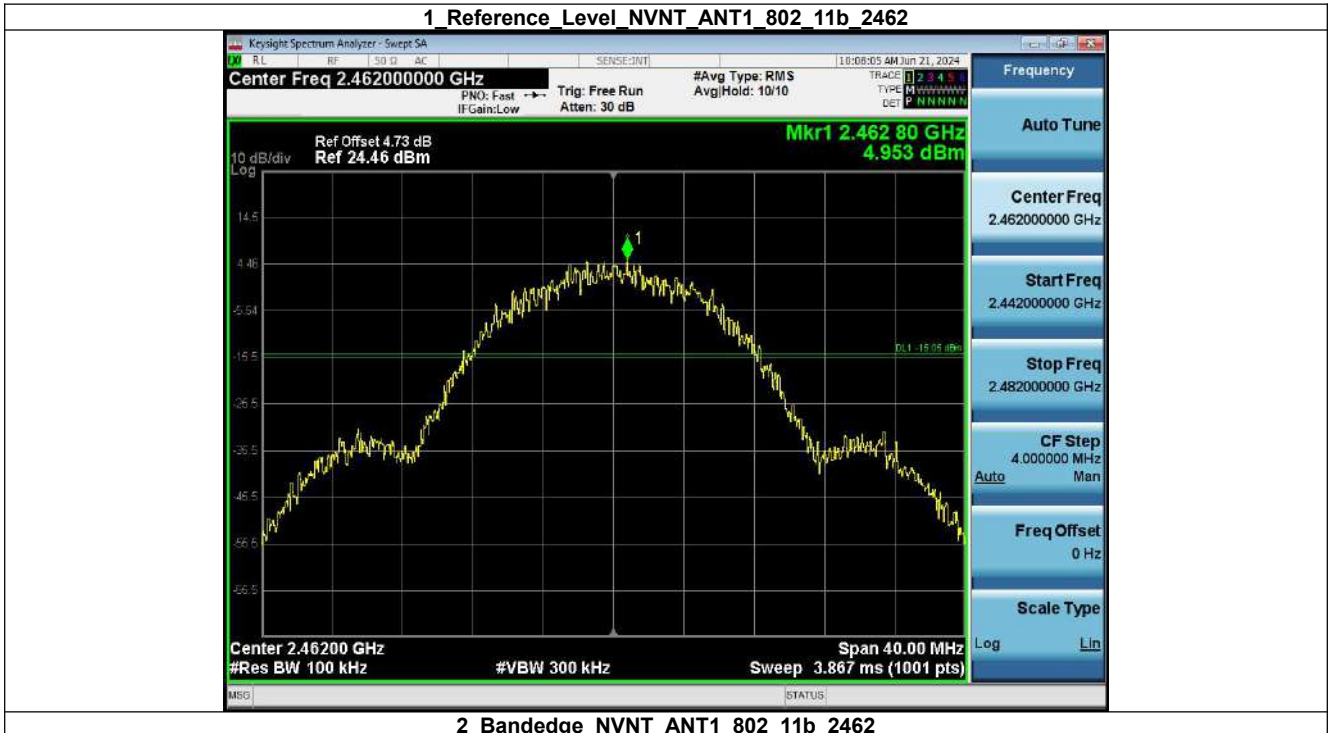
1 Reference_Level_NVNT_ANT1_802_11b_2412



2 Bandedge_NVNT_ANT1_802_11b_2412



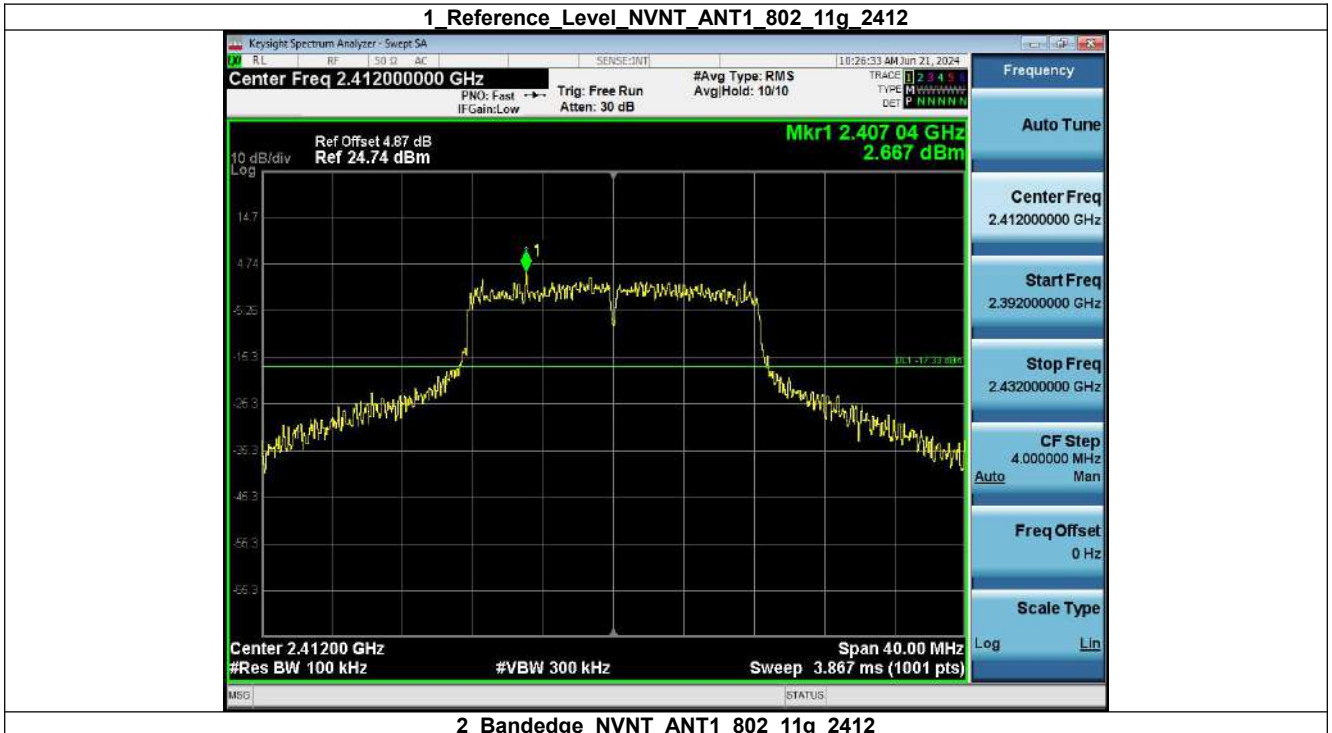
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2 Bandedge_NVNT_ANT1_802_11b_2462



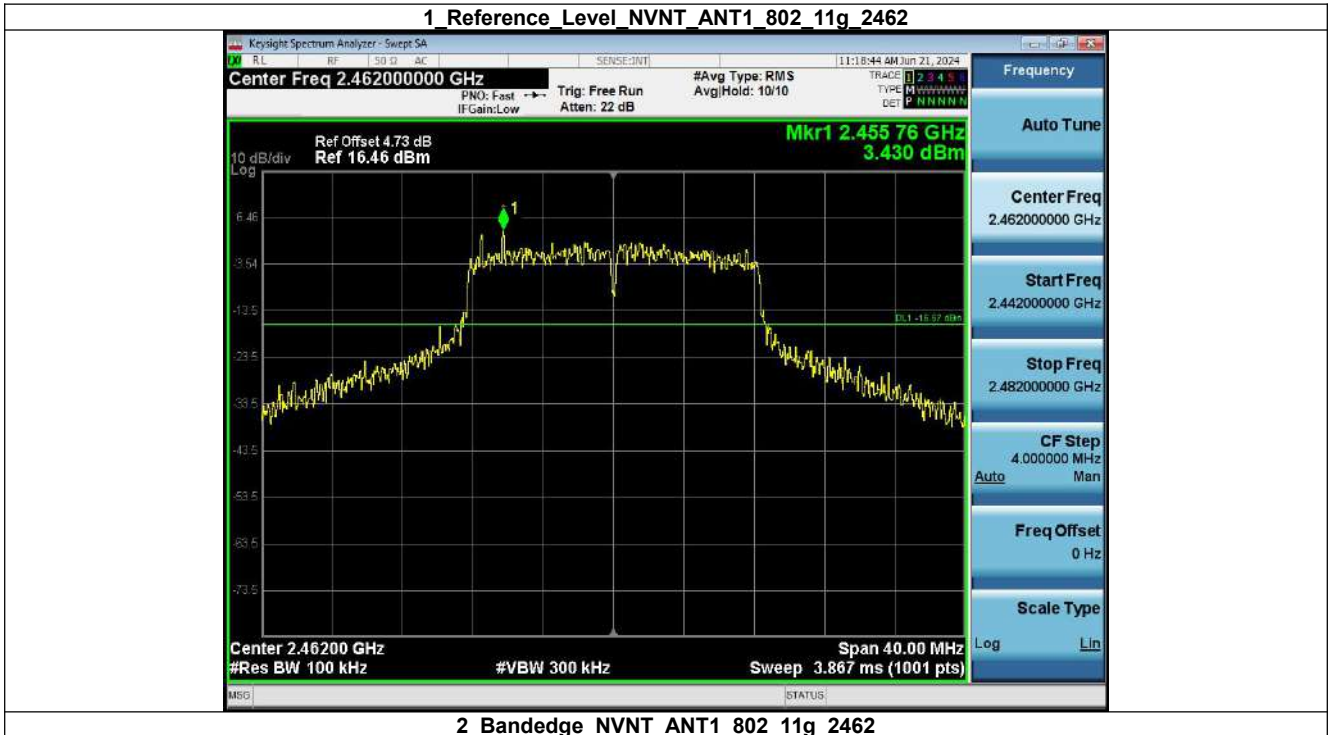
1 Reference Level NVNT ANT1 802 11g 2412



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



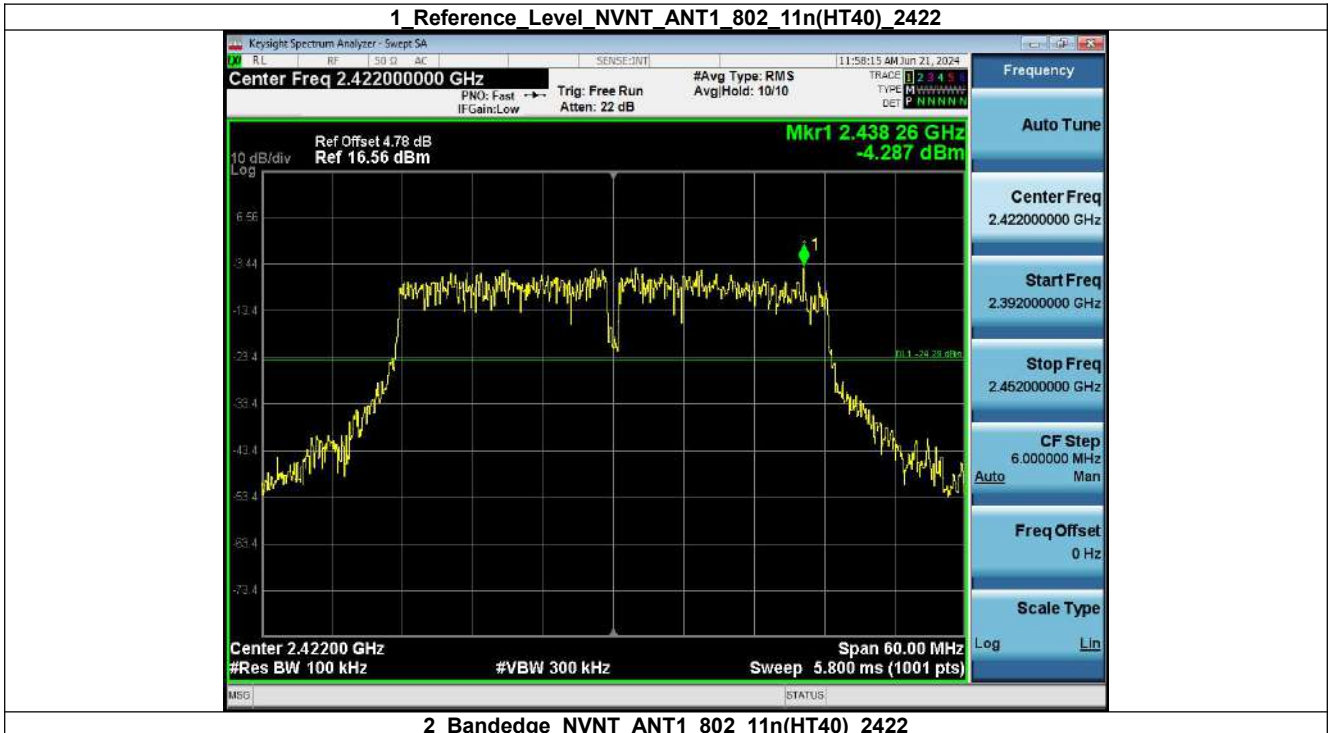
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2 Bandedge_NVNT_ANT1_802_11n(HT20)_2462



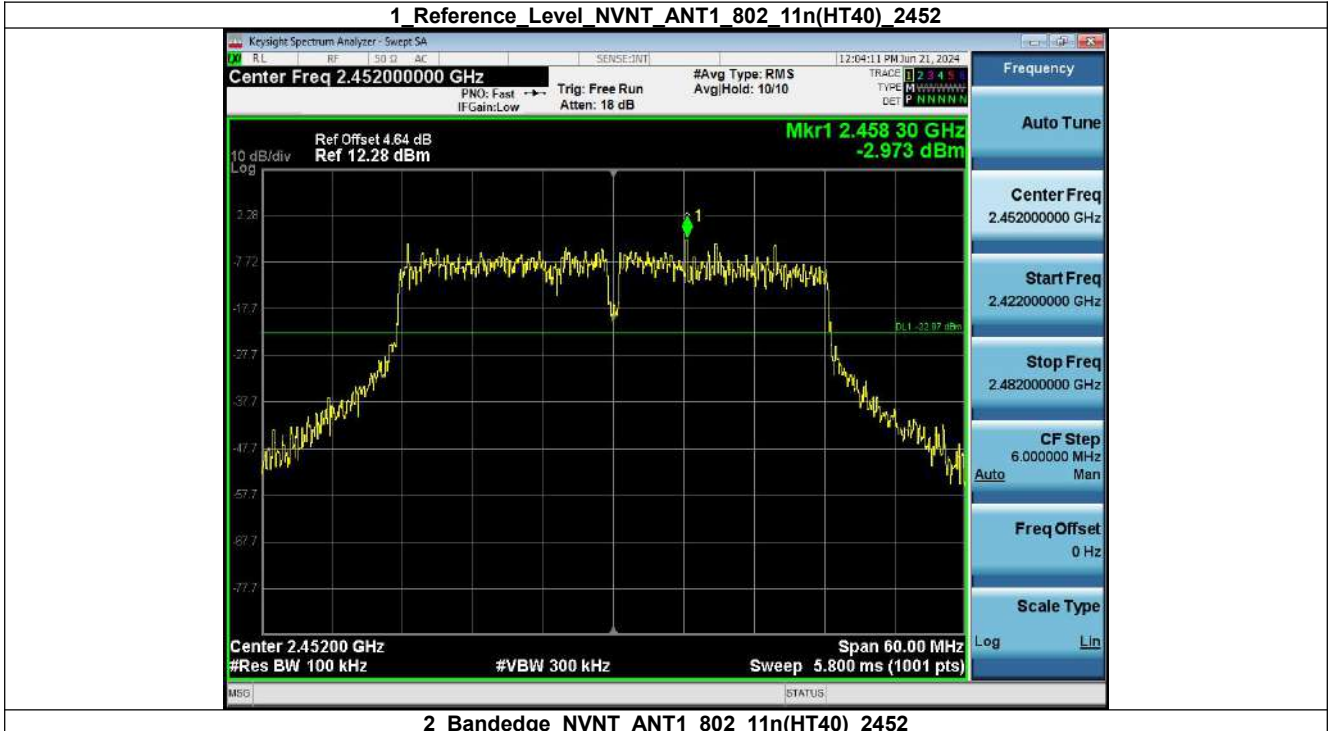
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2 Bandedge_NVNT_ANT1_802_11n(HT40)_2422



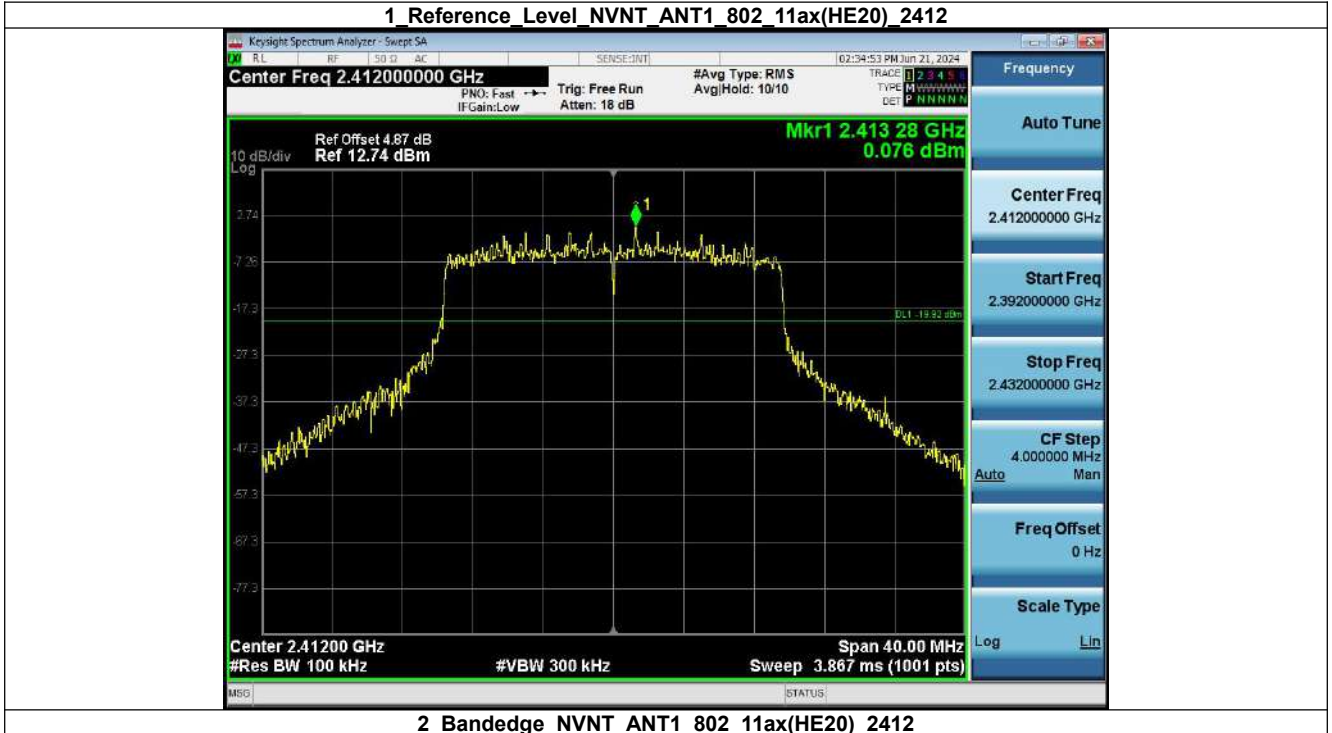
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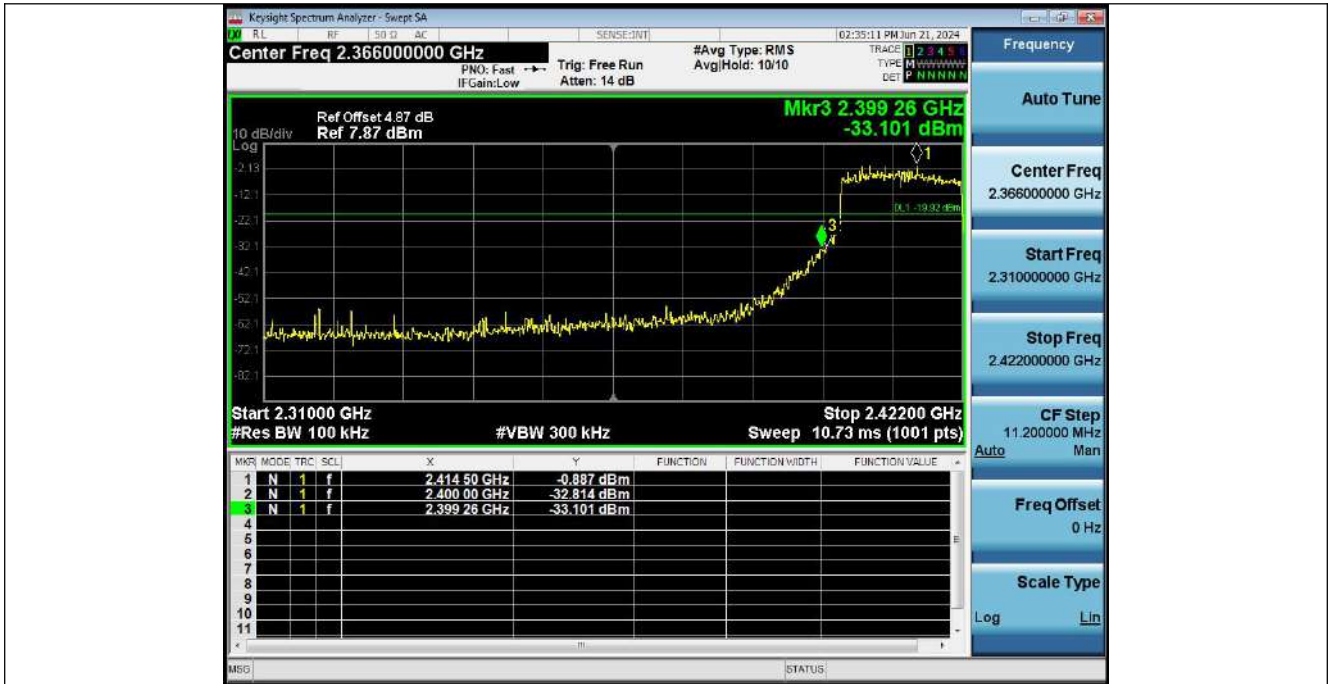
2 Bandedge NVNT ANT1 802 11n(HT40) 2452



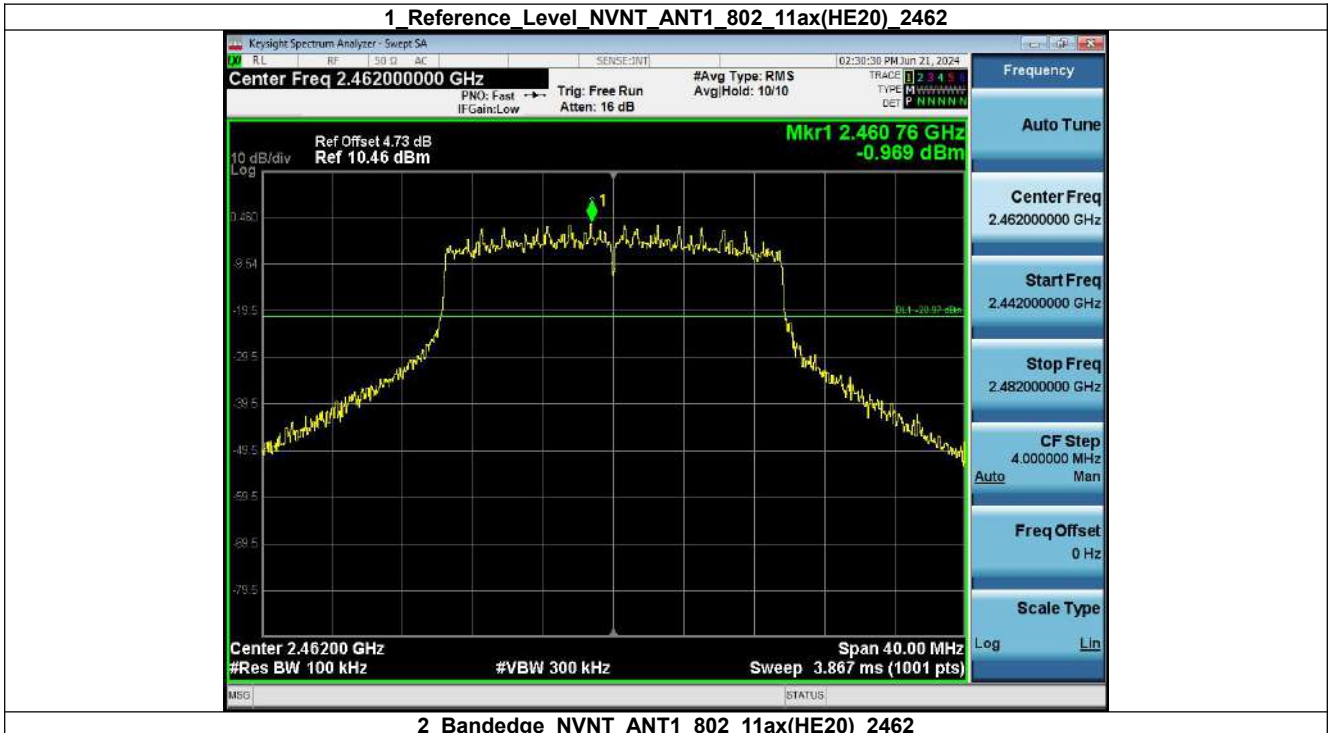
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2 Bandedge NVNT ANT1_802_11ax(HE20)_2412



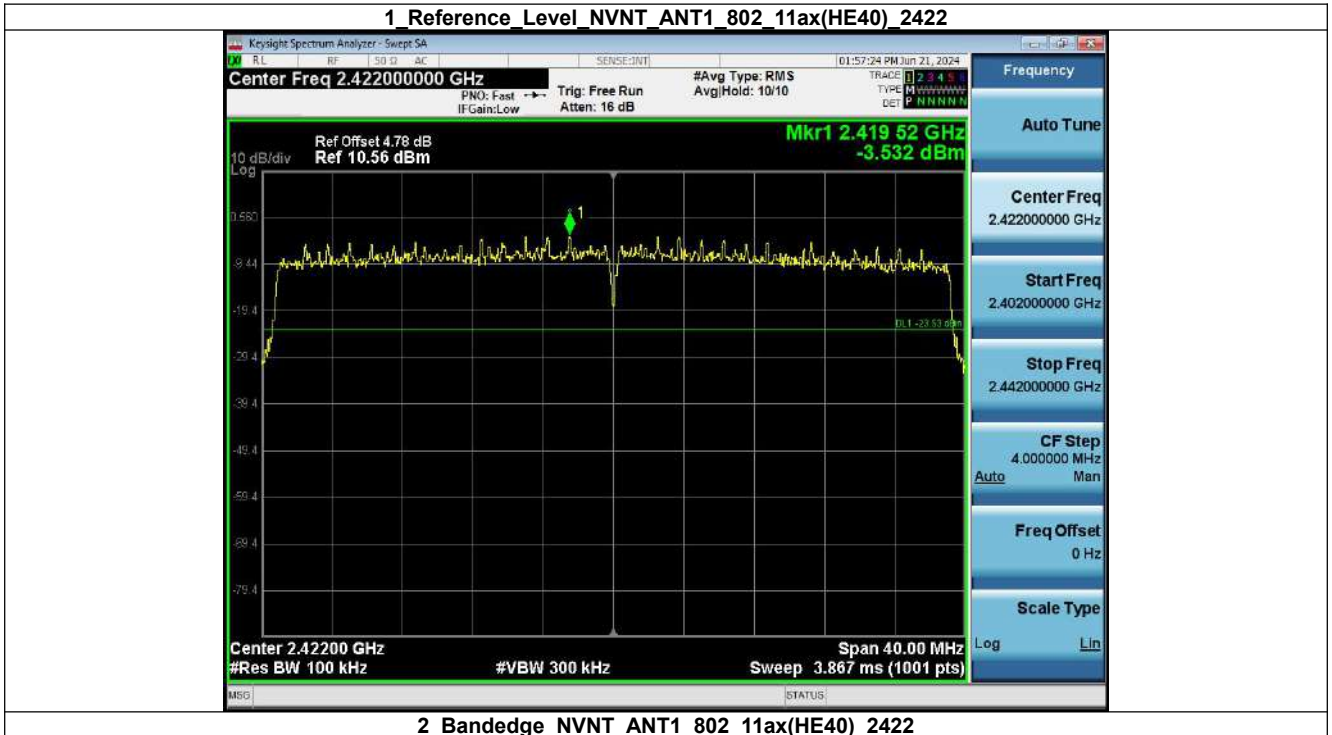
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2 Bandedge NVNT ANT1_802_11ax(HE20)_2462



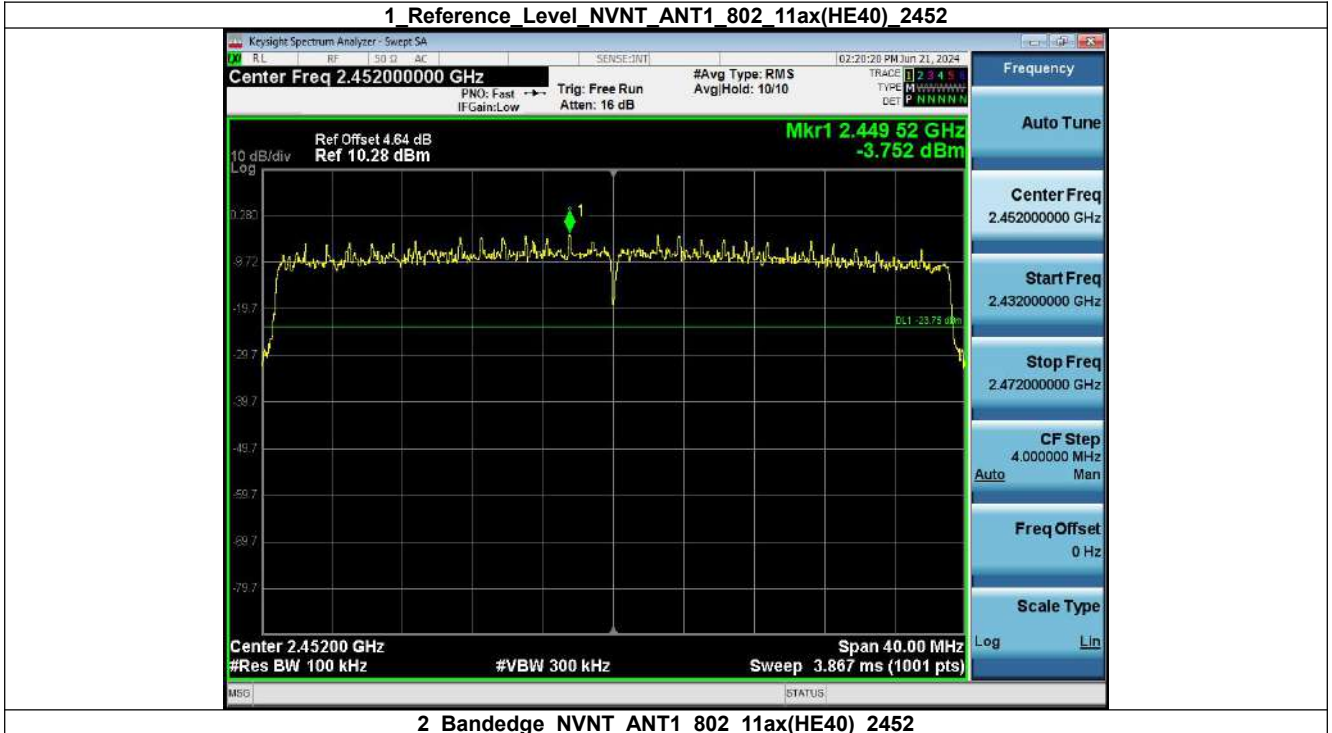
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2 Bandedge_NVNT_ANT1_802_11ax(HE40)_2422



1 Reference Level NVNT ANT1_802_11ax(HE40)_2452



2 Bandedge NVNT ANT1_802_11ax(HE40)_2452



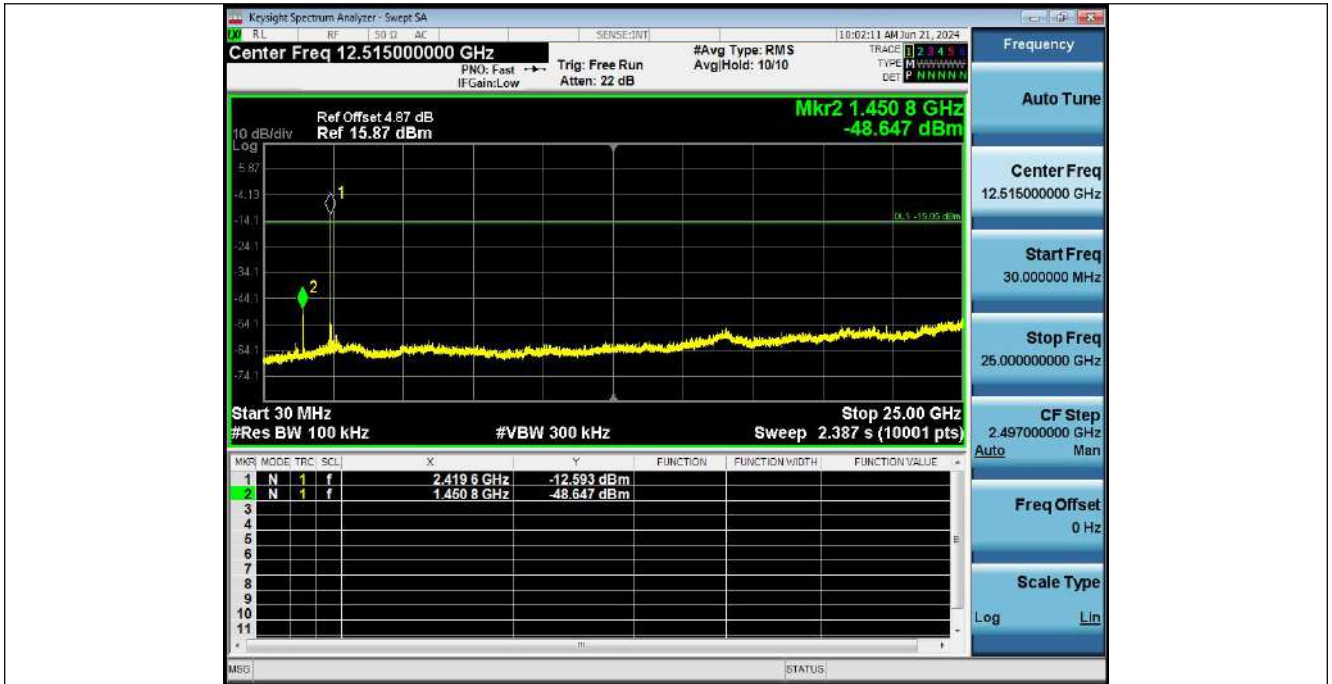
7. Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_frequency(MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	1450.793	-48.647	-15.049	Pass
NVNT	ANT1	802.11b	2437.00	1460.781	-45.472	-14.081	Pass
NVNT	ANT1	802.11b	2462.00	25000.000	-47.919	-15.047	Pass
NVNT	ANT1	802.11g	2412.00	24945.066	-47.539	-17.333	Pass
NVNT	ANT1	802.11g	2437.00	1460.781	-45.023	-15.205	Pass
NVNT	ANT1	802.11g	2462.00	1475.763	-45.548	-16.570	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	1438.308	-53.357	-21.299	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	1463.278	-49.319	-19.598	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	1480.757	-50.774	-20.391	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	1450.793	-52.499	-24.287	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	1463.278	-52.138	-21.532	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	1463.278	-50.698	-22.973	Pass
NVNT	ANT1	802.11ax(HE20)	2412.00	1453.290	-53.970	-20.569	Pass
NVNT	ANT1	802.11ax(HE20)	2437.00	1465.775	-53.669	-20.171	Pass
NVNT	ANT1	802.11ax(HE20)	2462.00	1485.751	-52.581	-21.040	Pass
NVNT	ANT1	802.11ax(HE40)	2422.00	1440.805	-56.323	-23.910	Pass
NVNT	ANT1	802.11ax(HE40)	2437.00	1480.757	-54.806	-23.474	Pass
NVNT	ANT1	802.11ax(HE40)	2452.00	1473.266	-54.472	-24.060	Pass

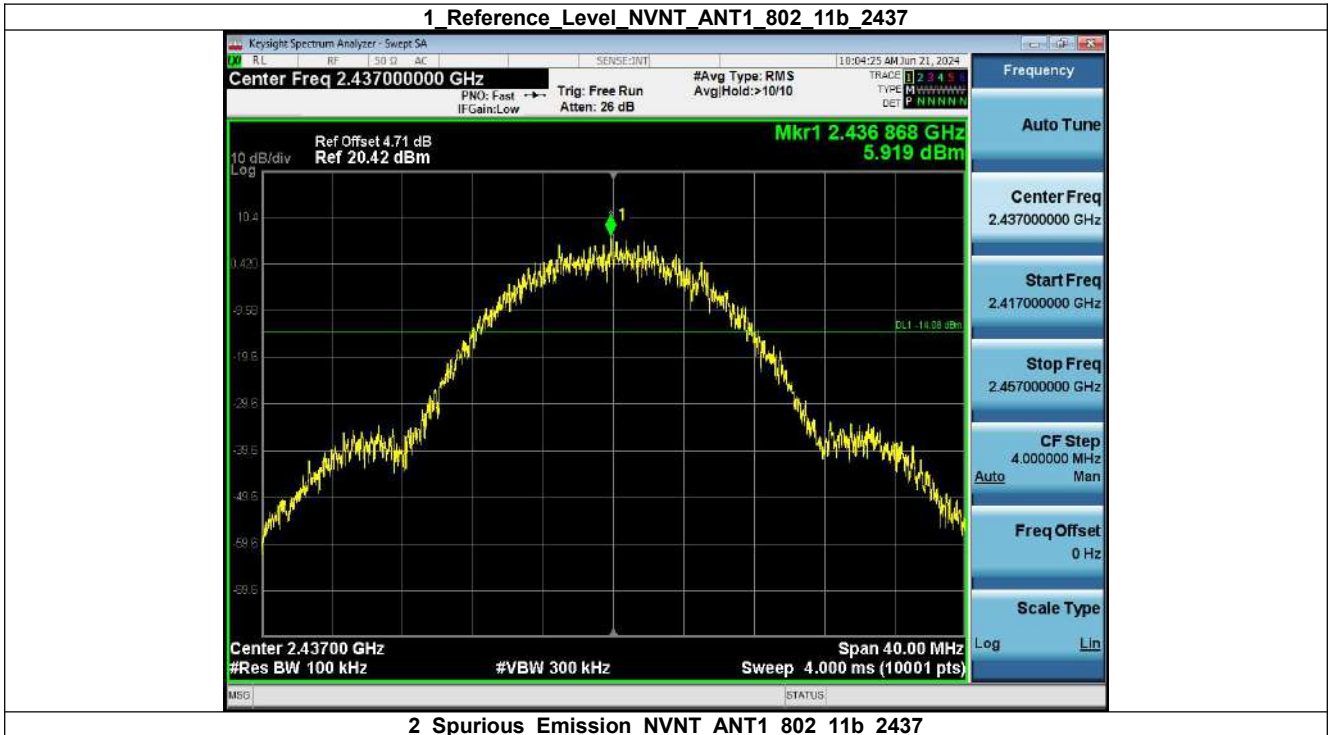
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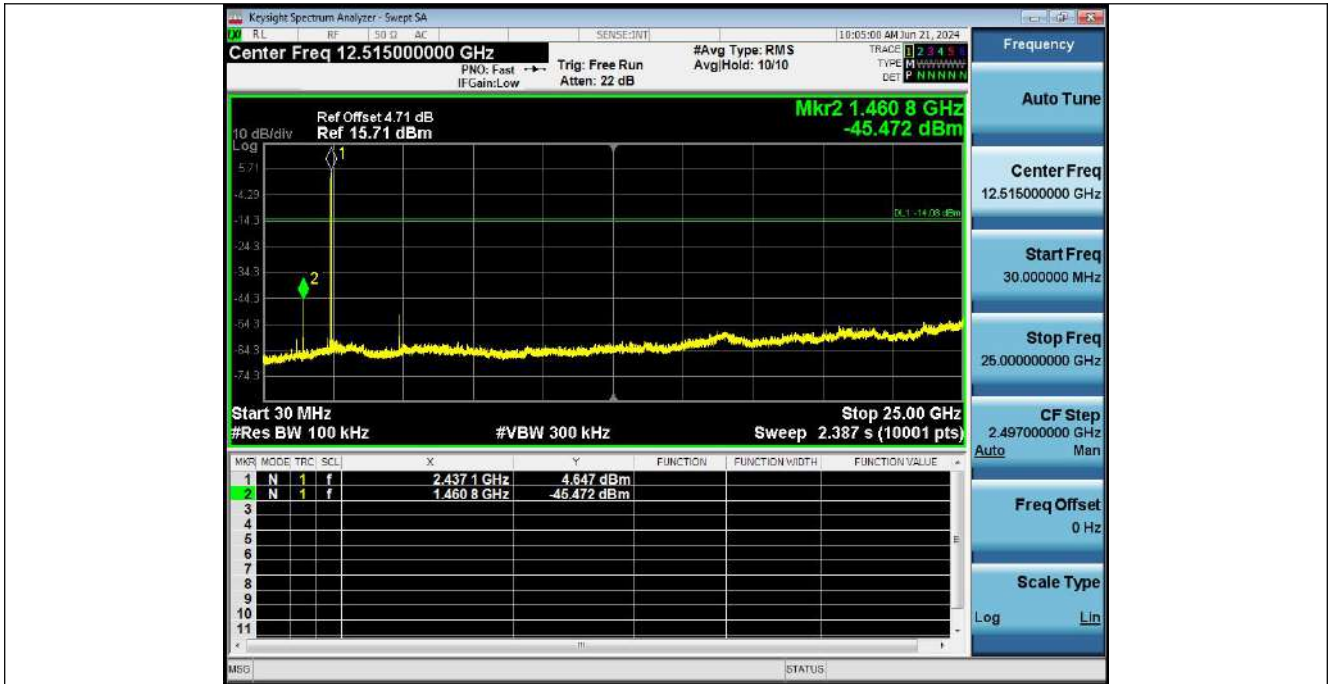
2 Spurious_Emission_NVNT_ANT1_802_11b_2412



1 Reference Level NVNT ANT1 802 11b 2437



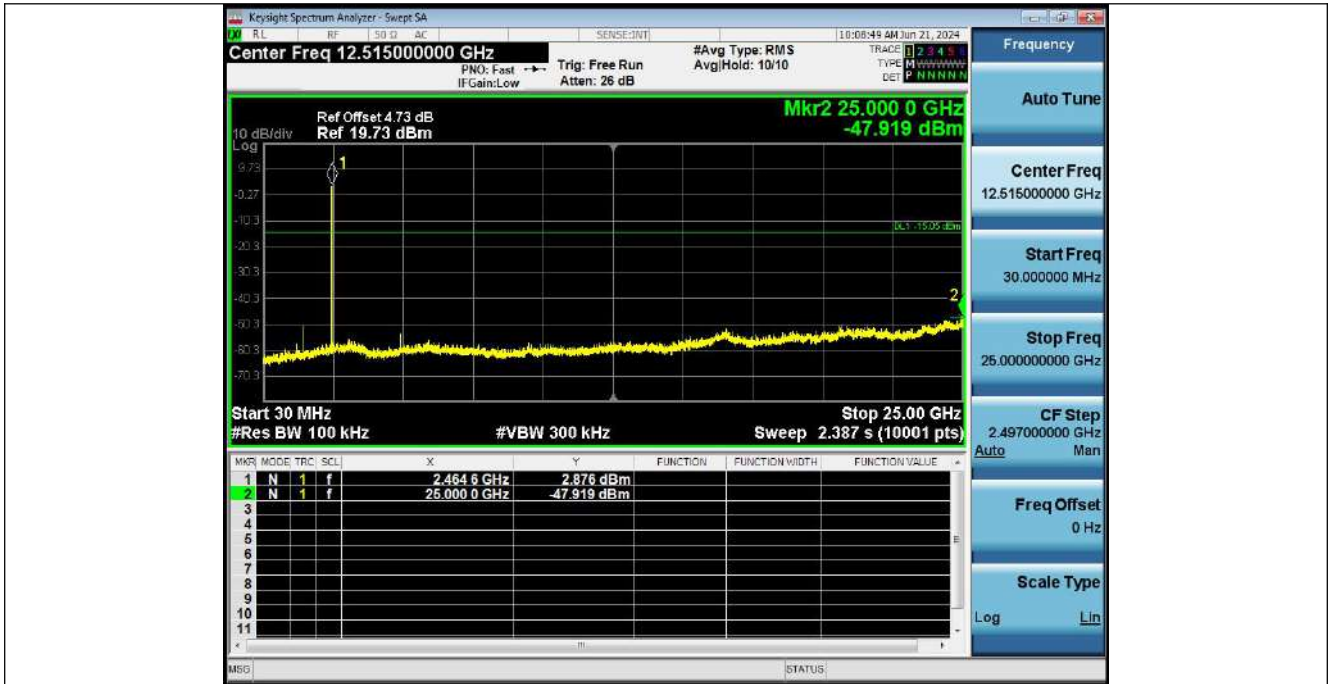
2 Spurious Emission NVNT ANT1 802 11b 2437



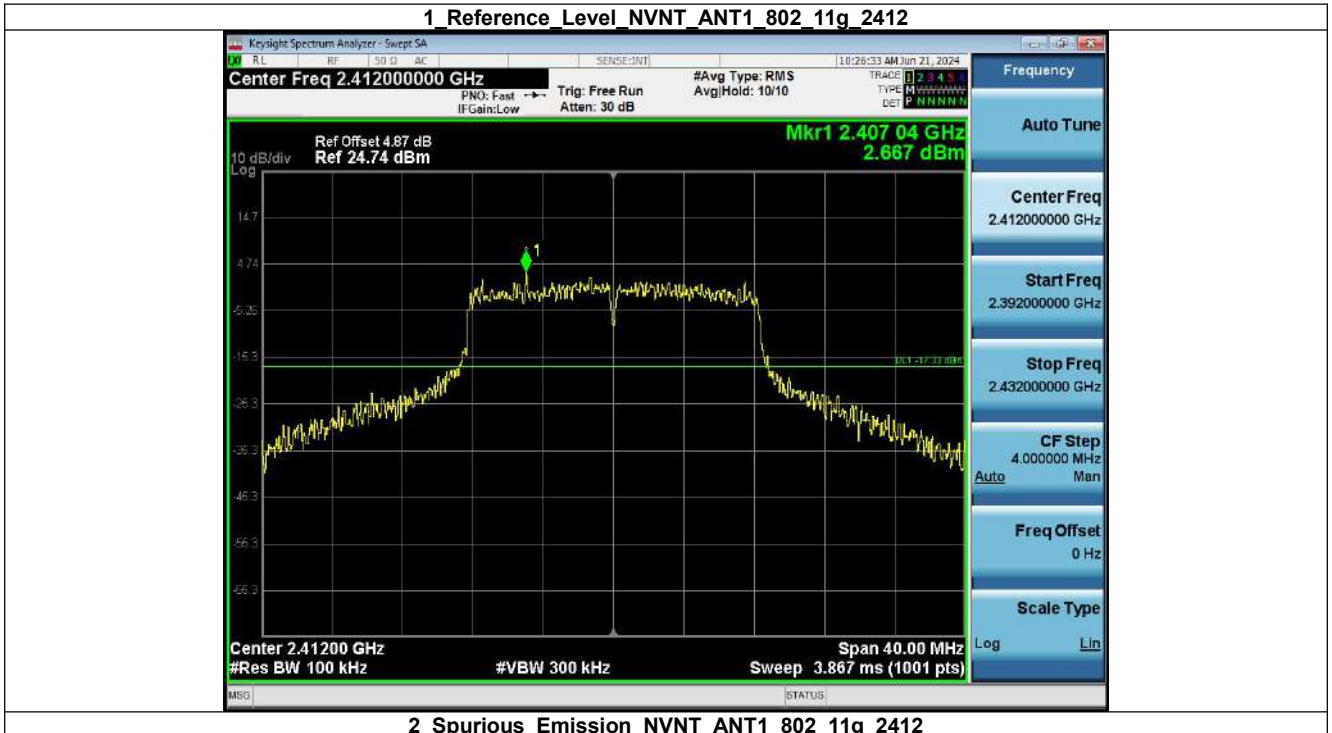
1 Reference Level NVNT ANT1 802 11b 2462



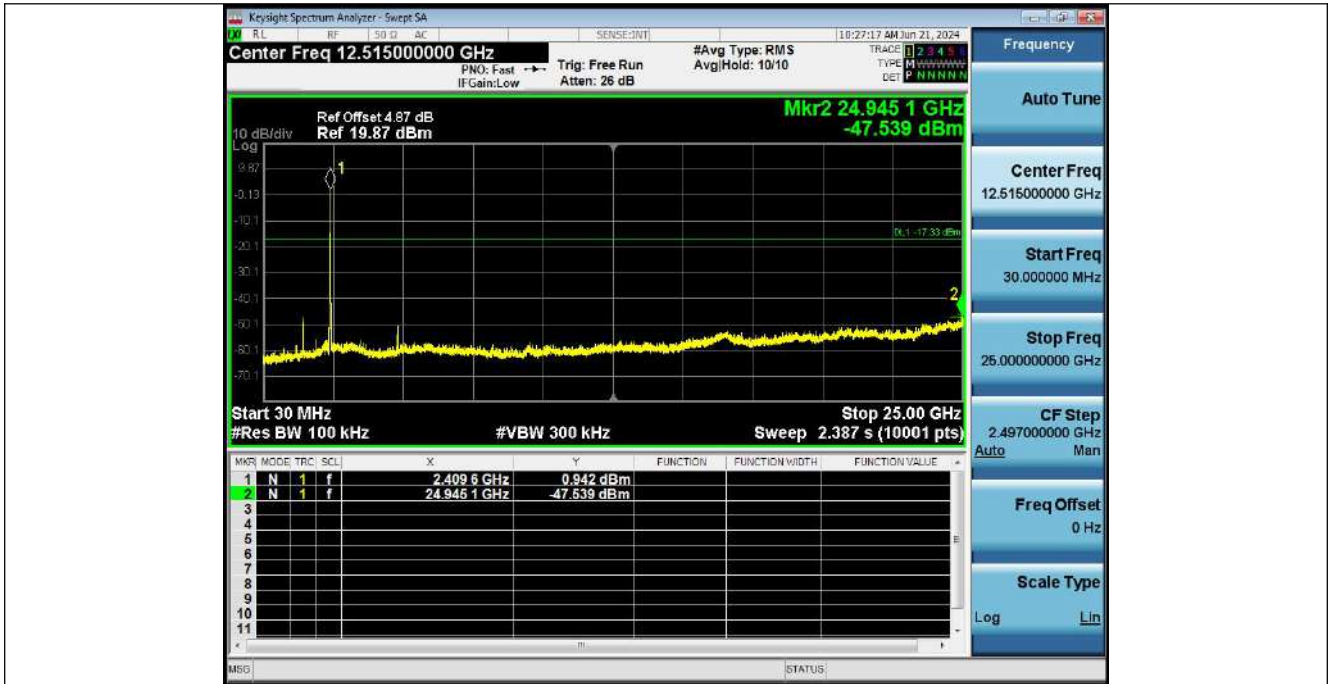
2 Spurious Emission_NVNT ANT1 802 11b 2462



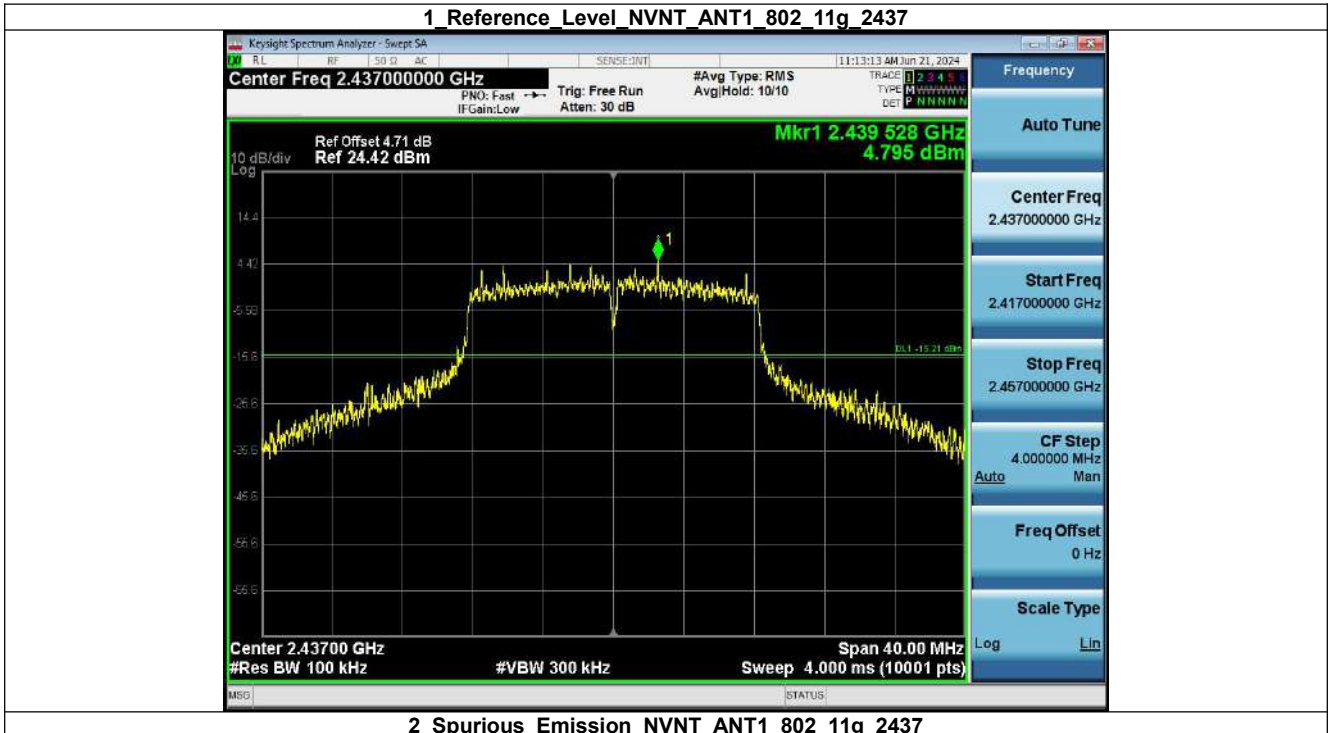
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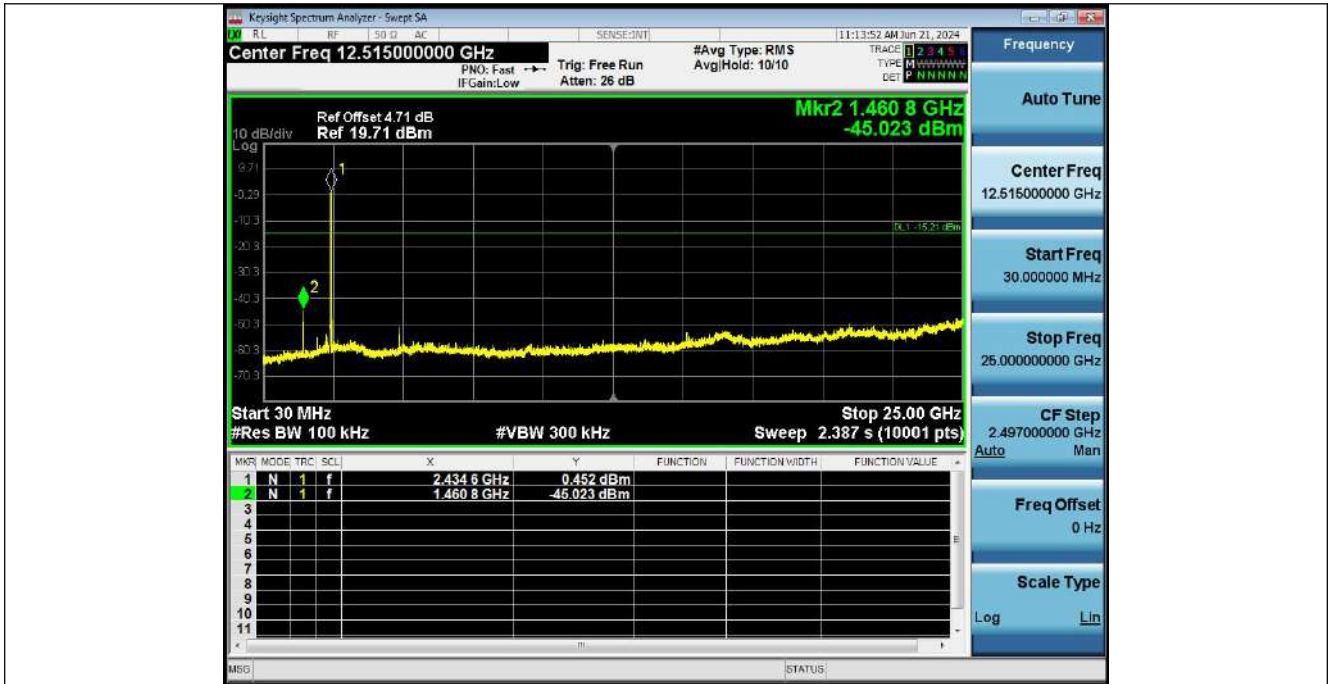
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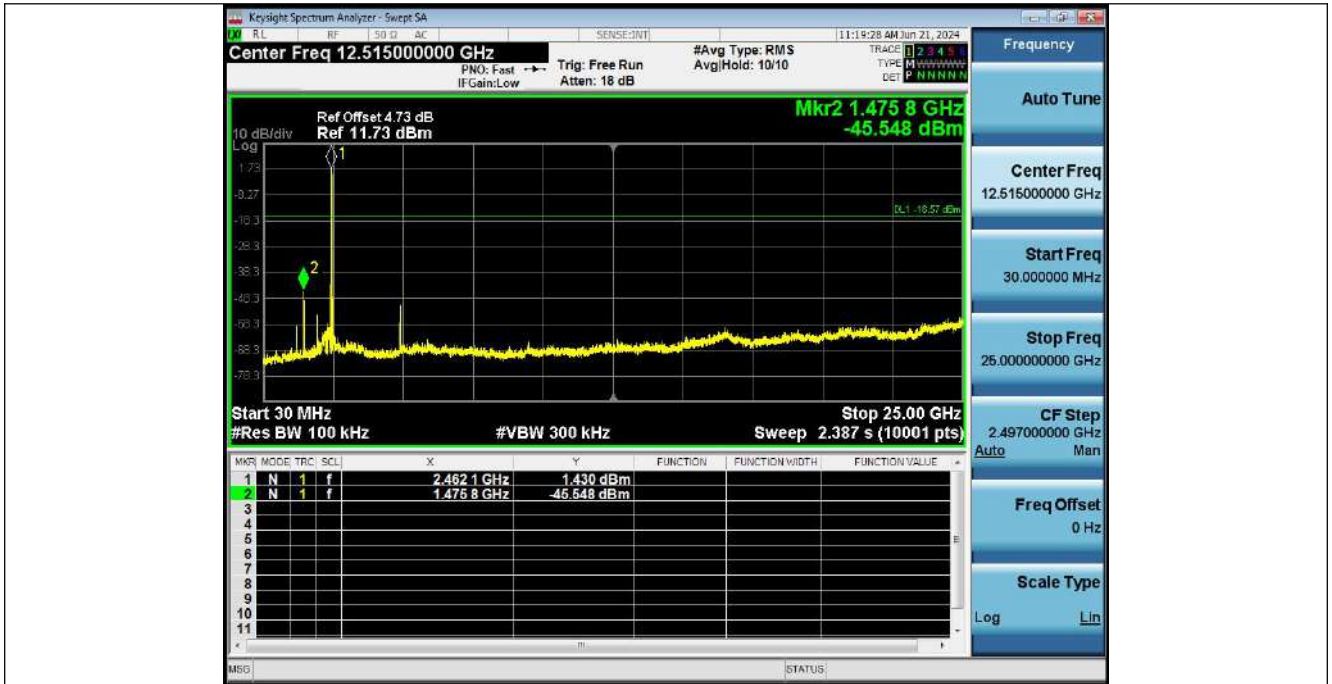
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1 Reference Level NVNT ANT1 802 11g 2462



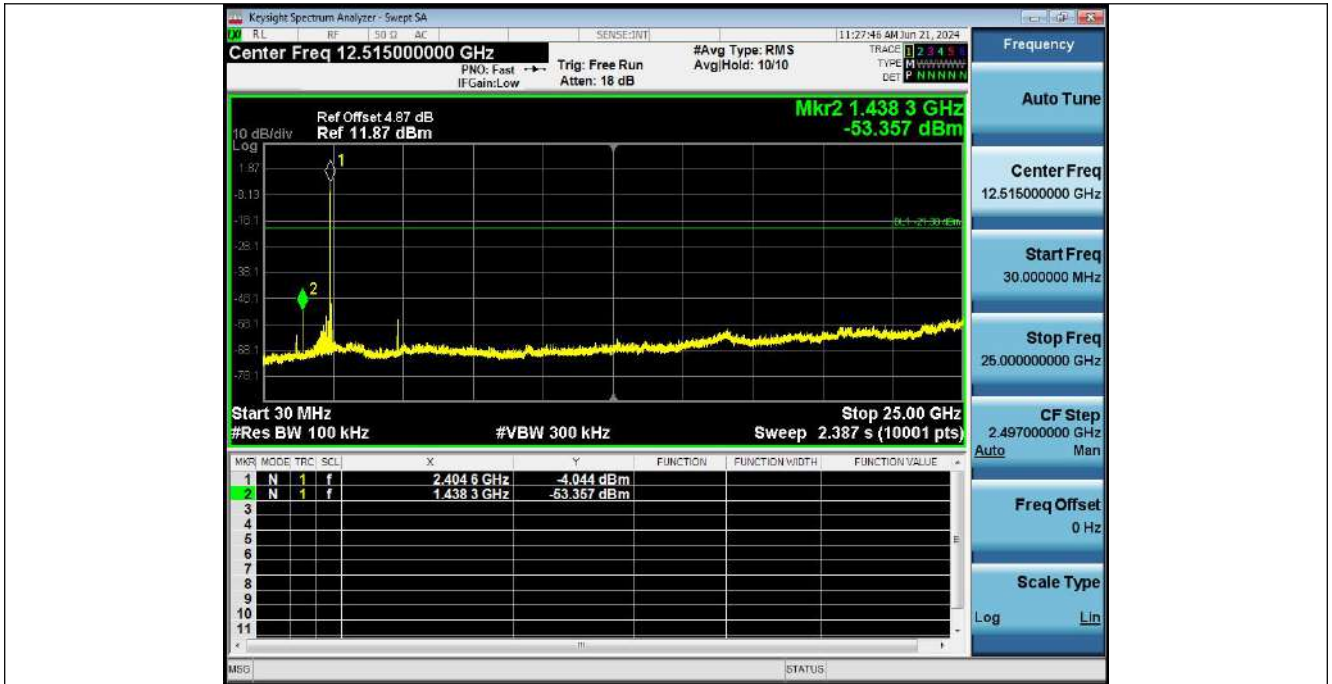
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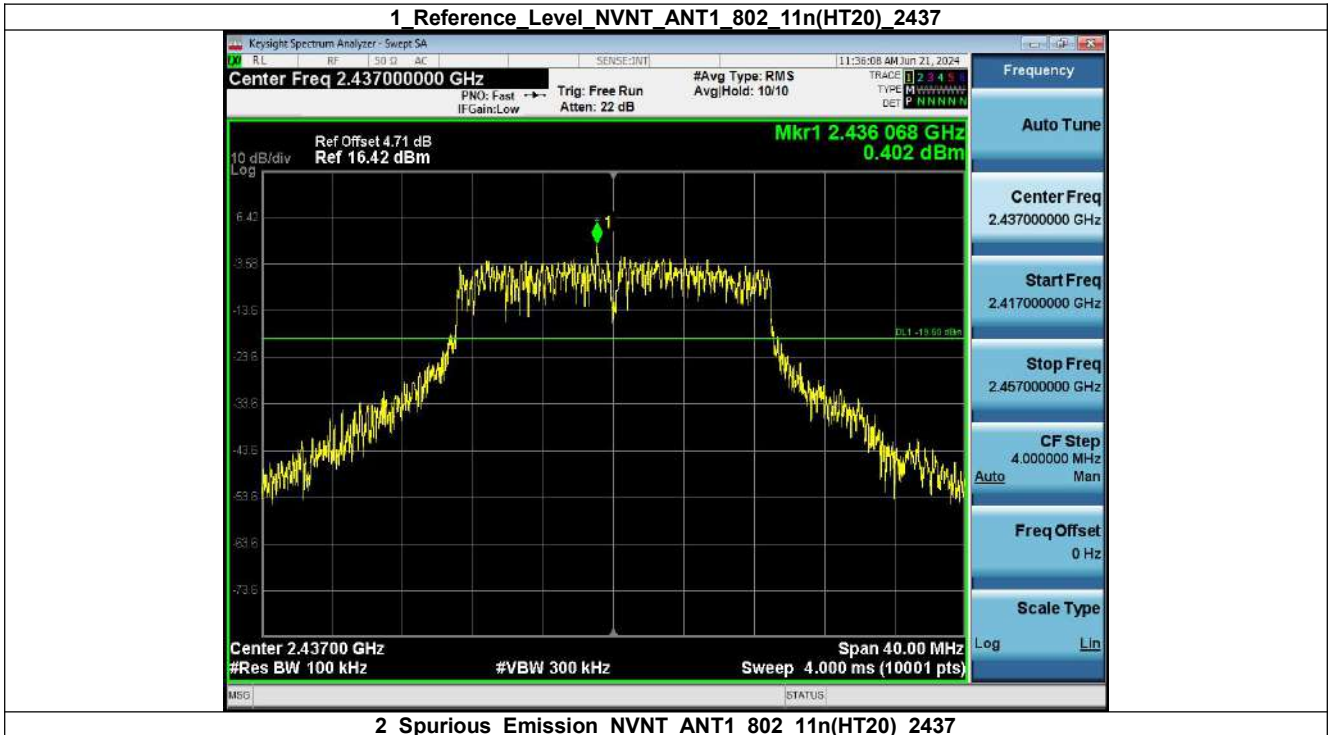
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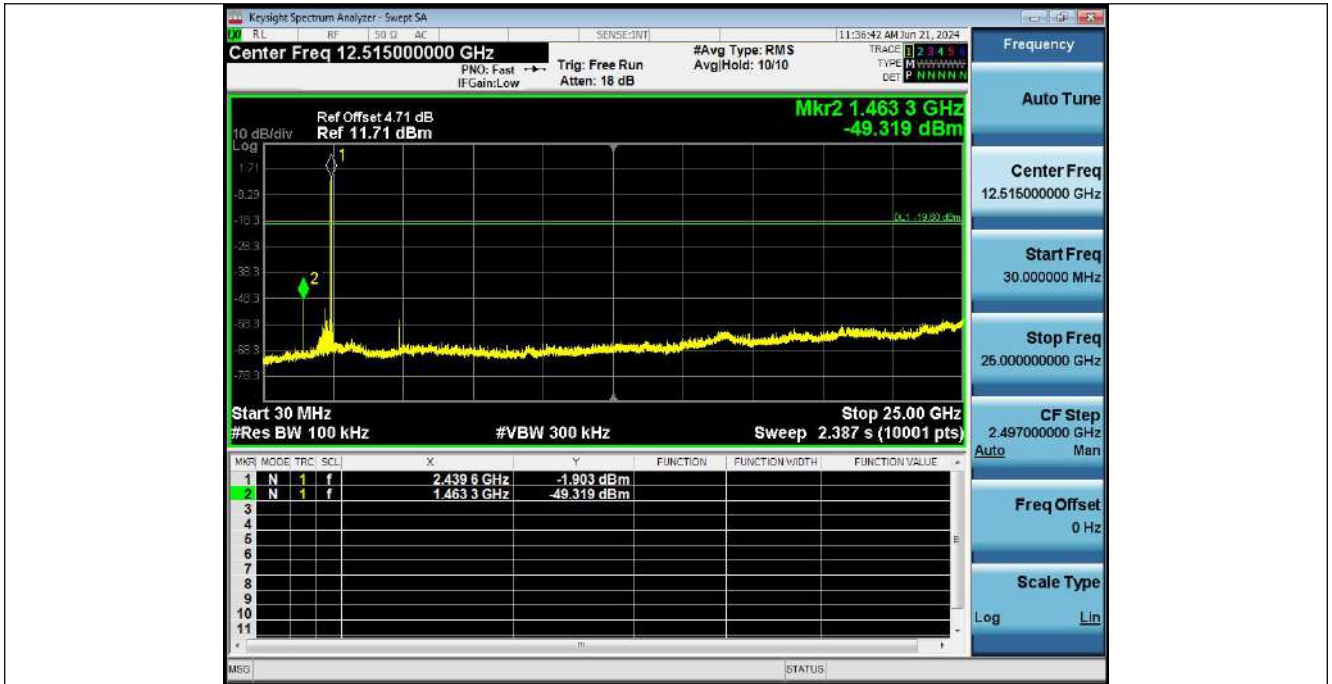
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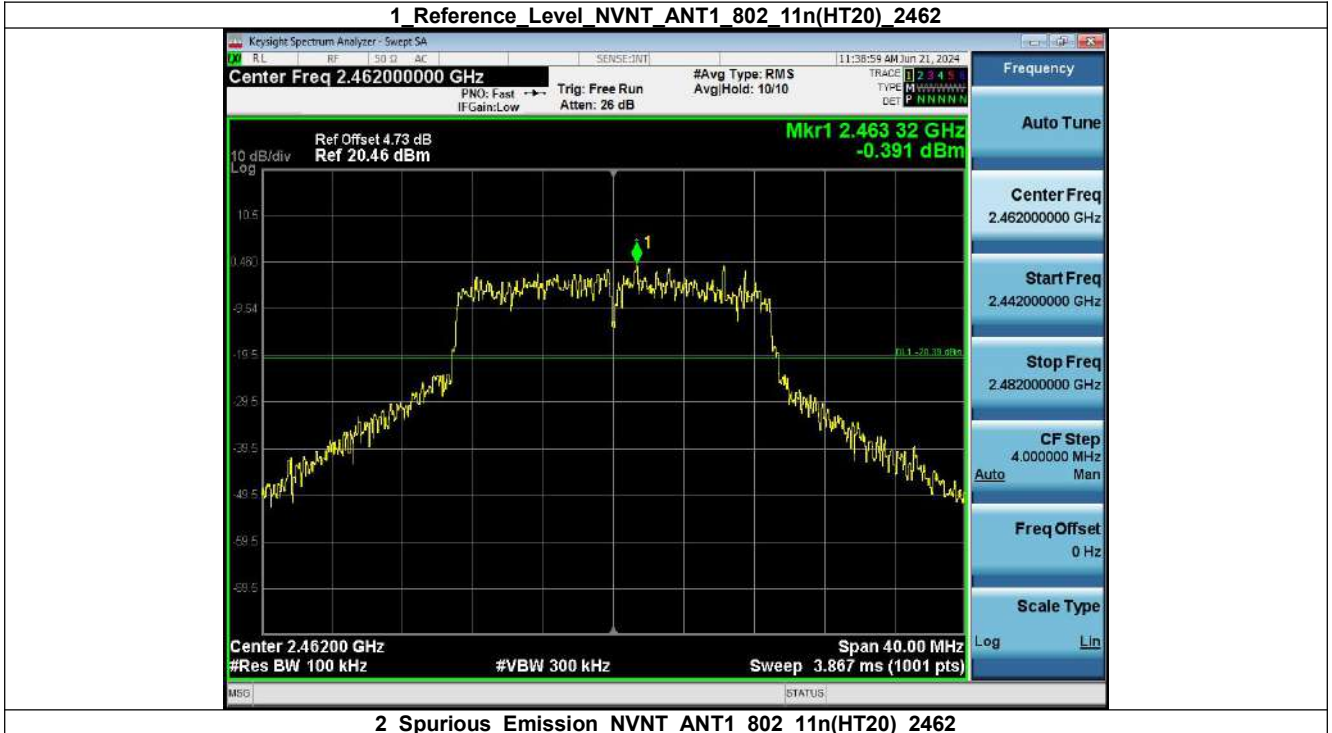
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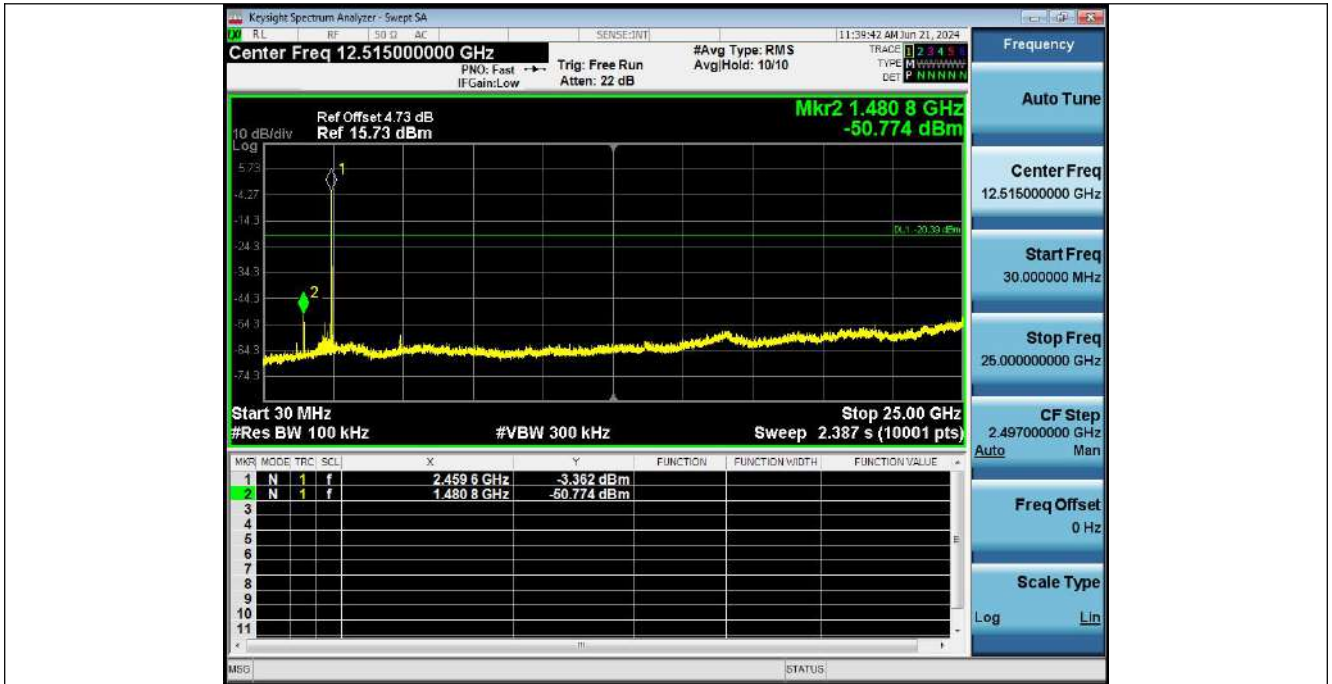
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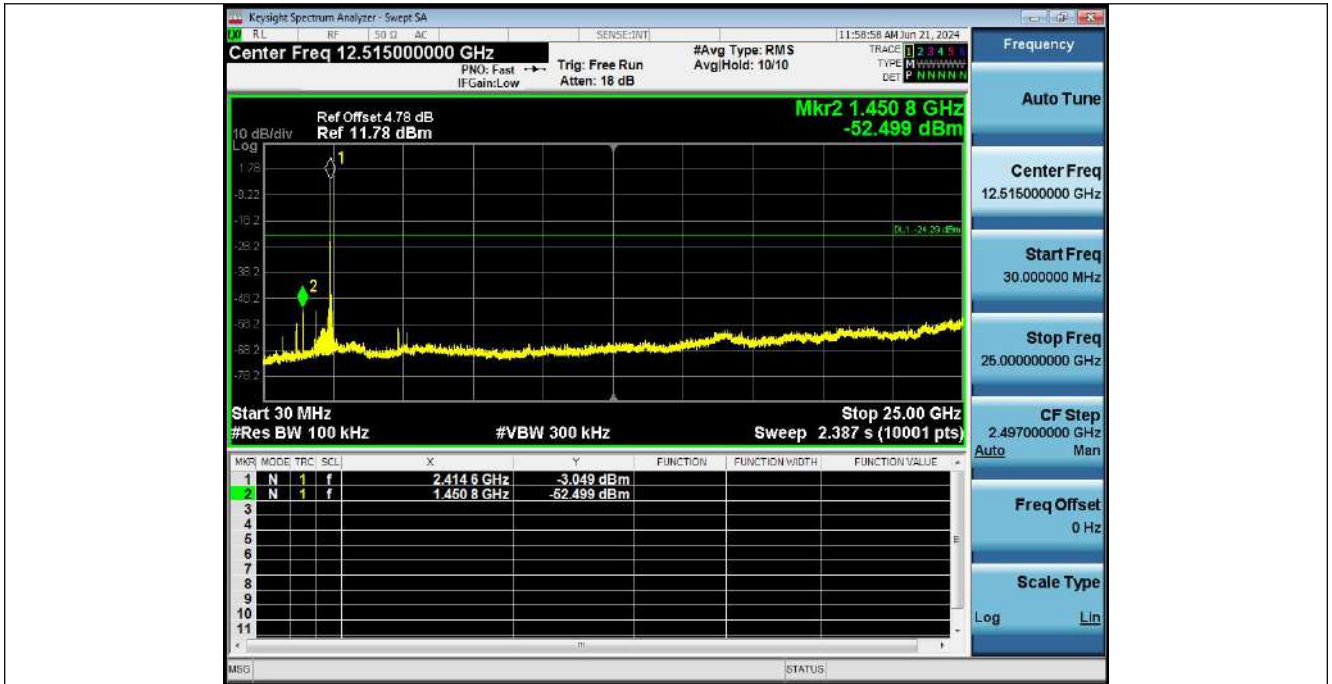
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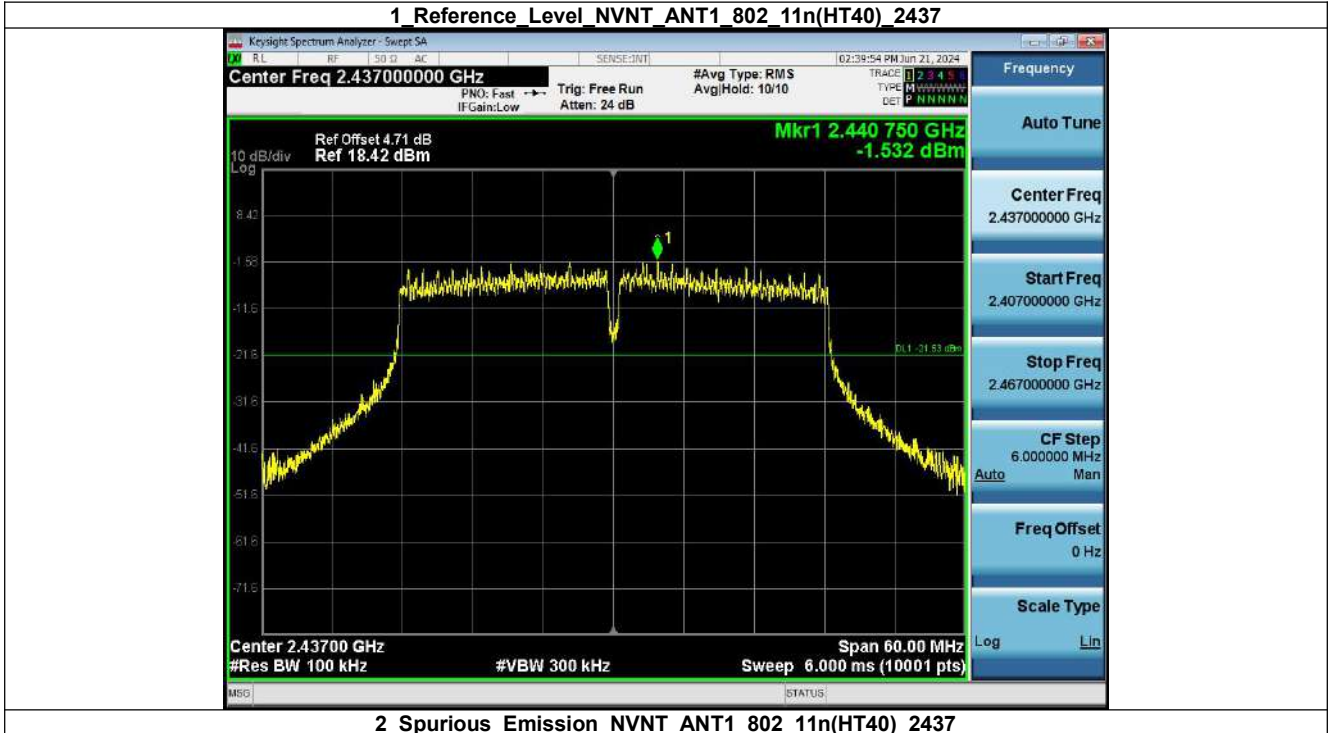
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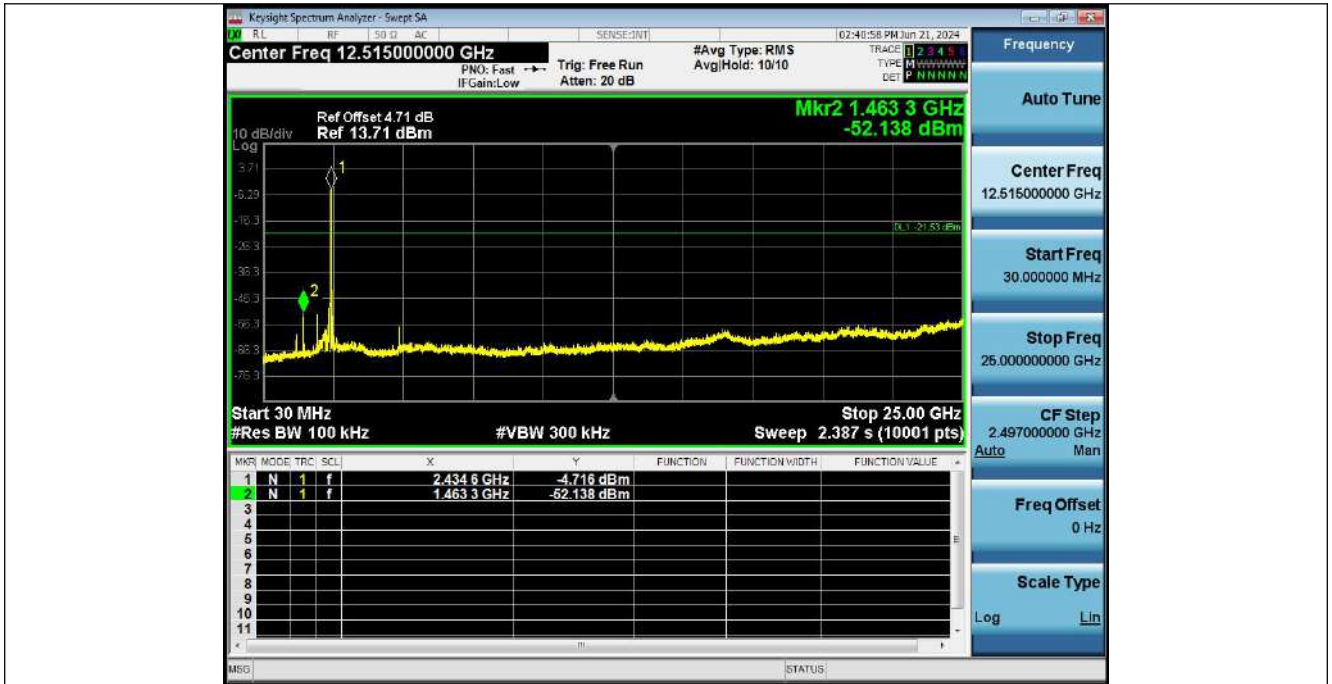
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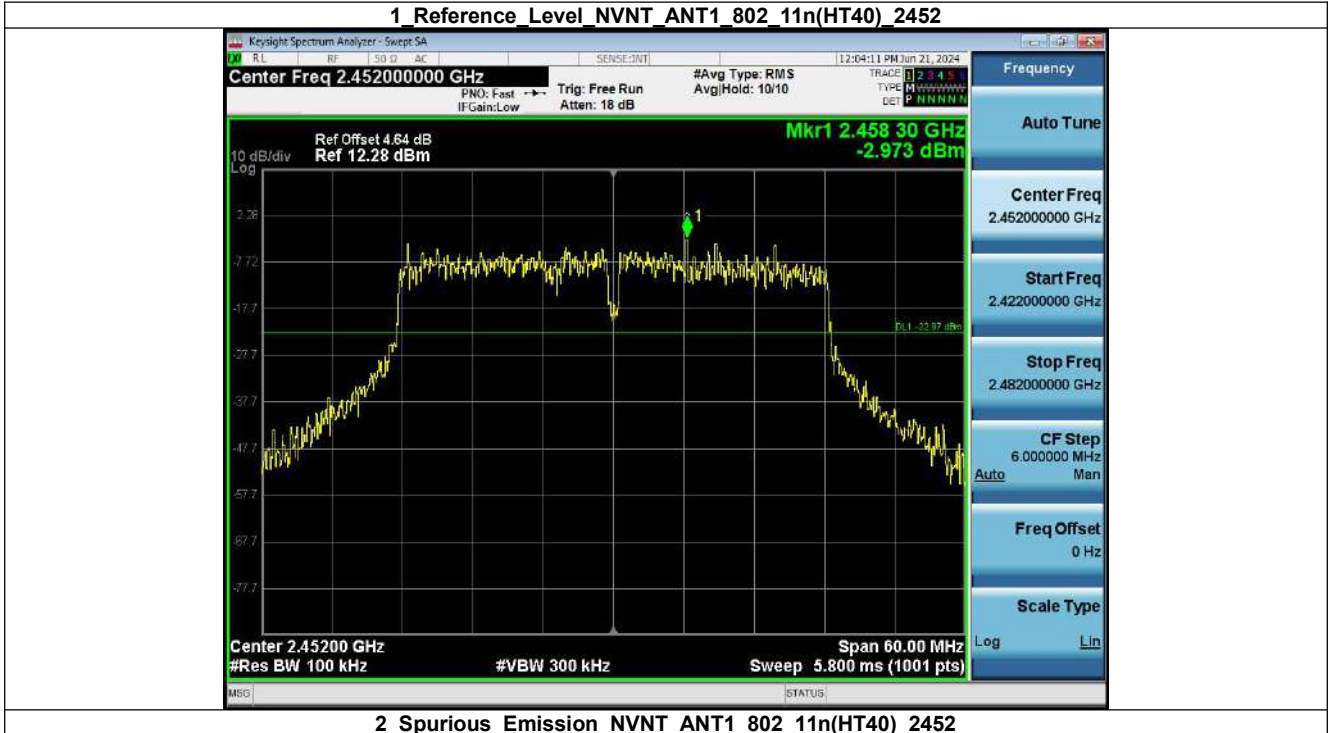
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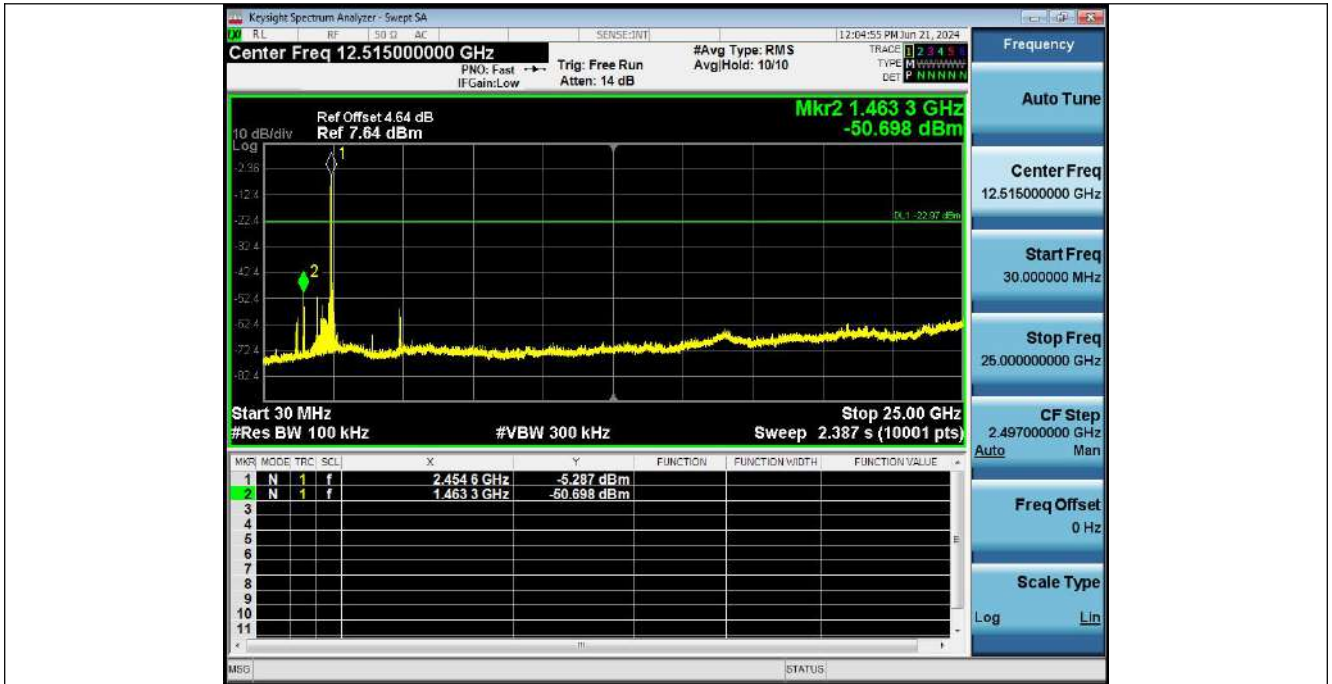
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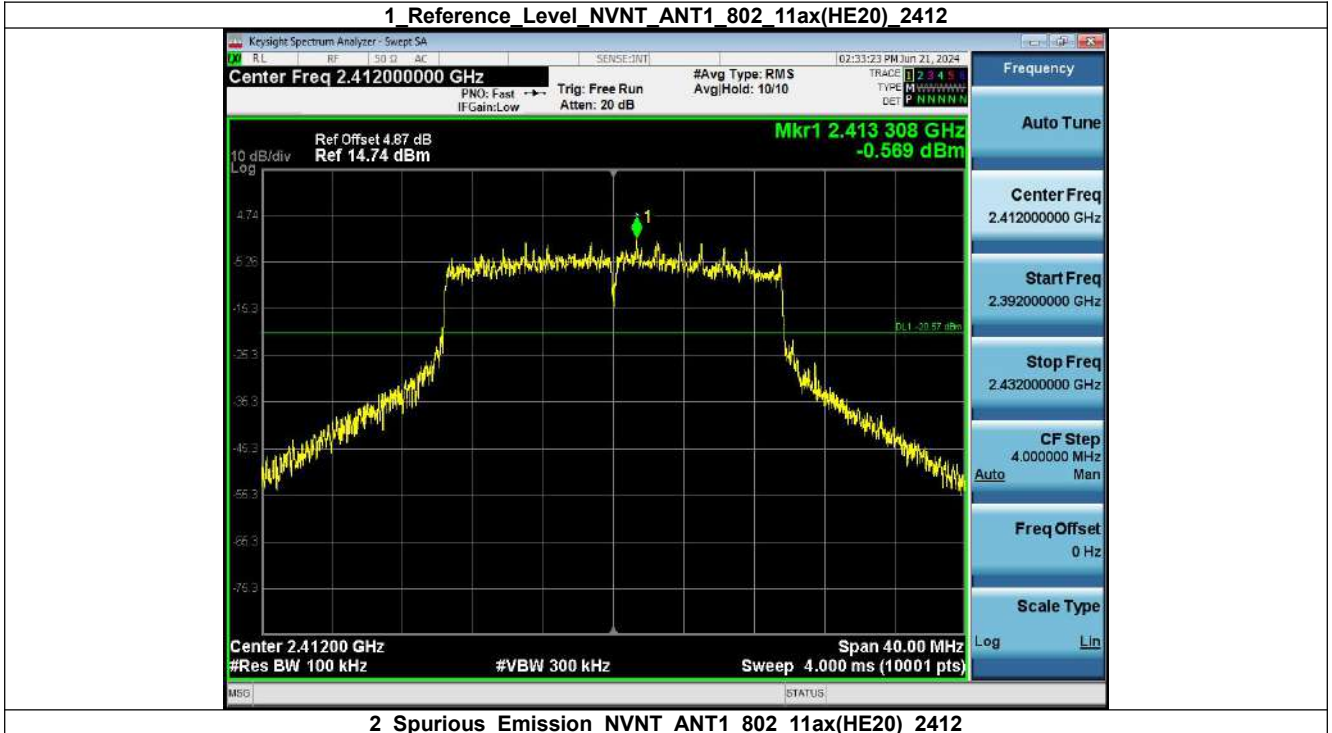
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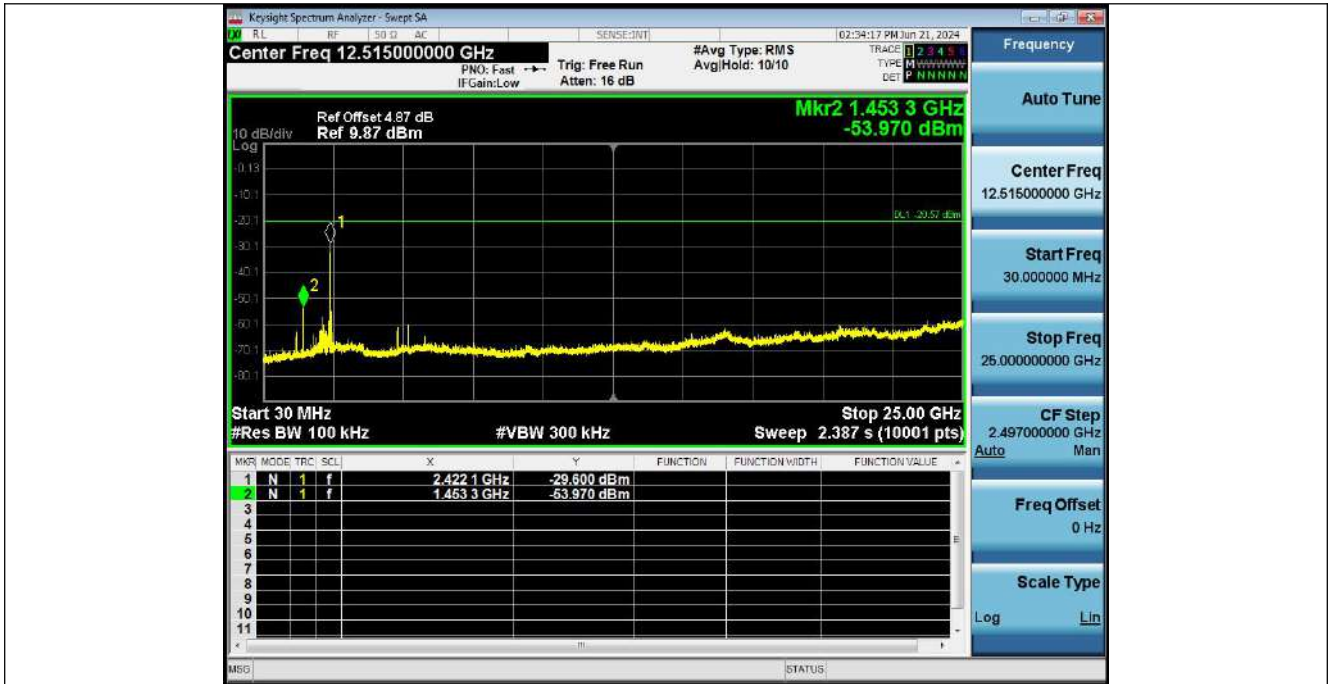
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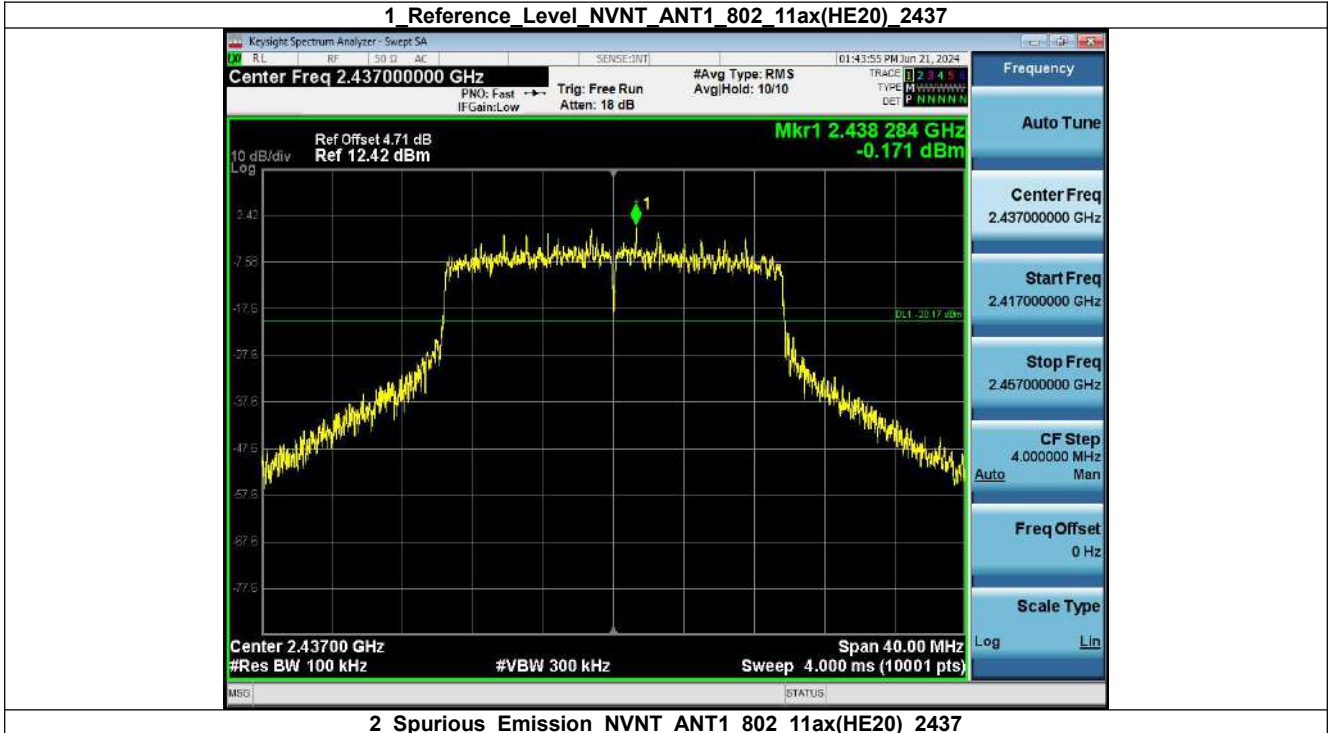
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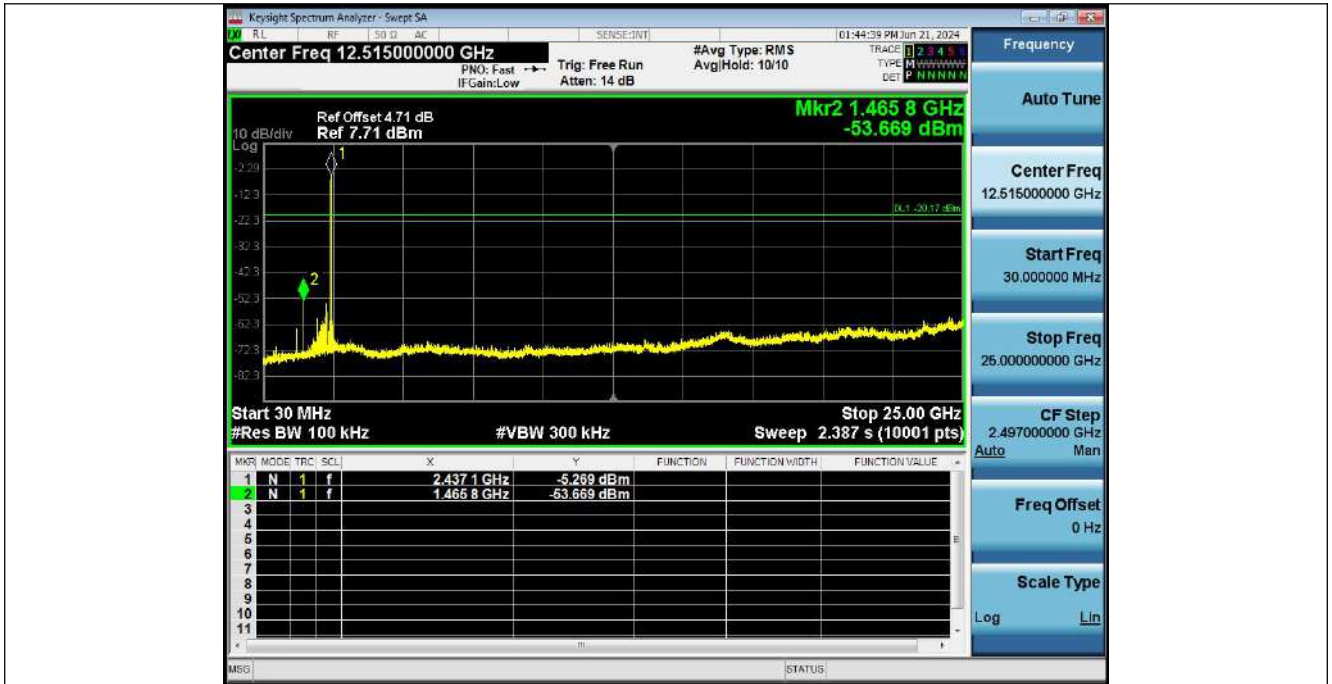
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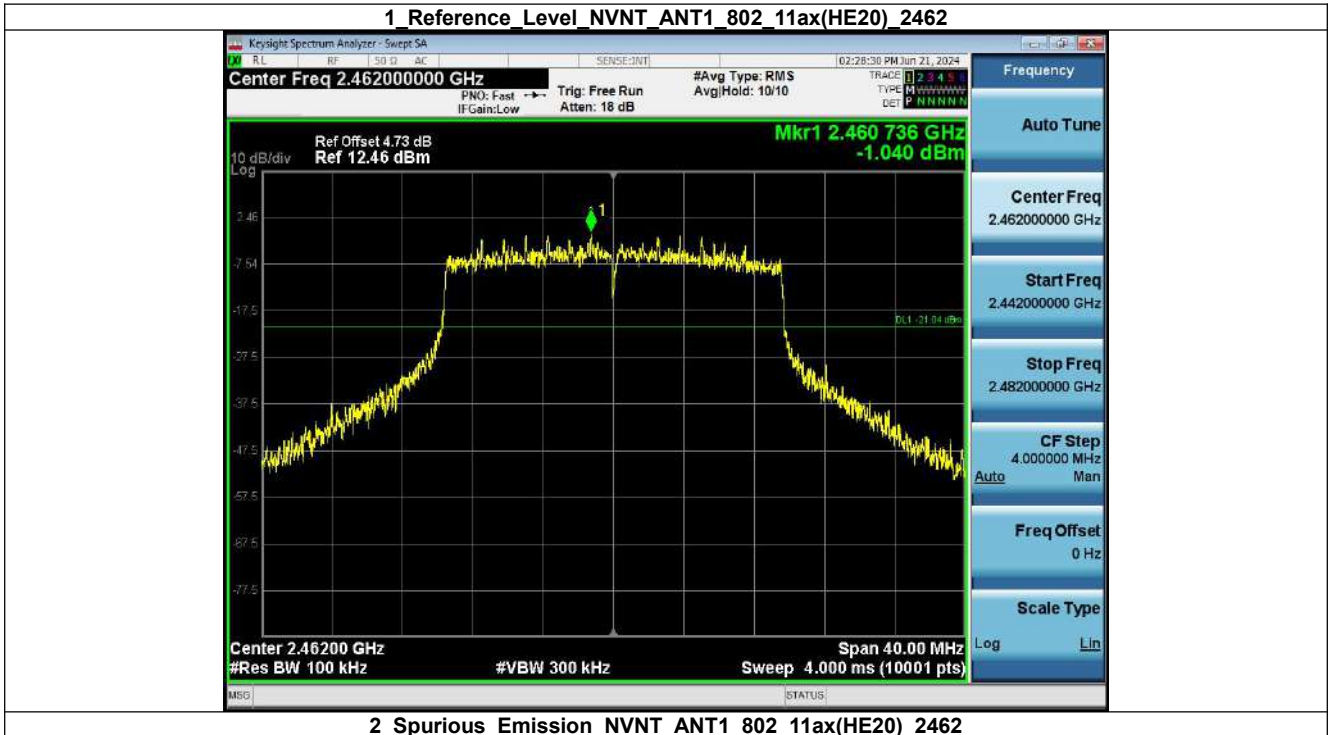
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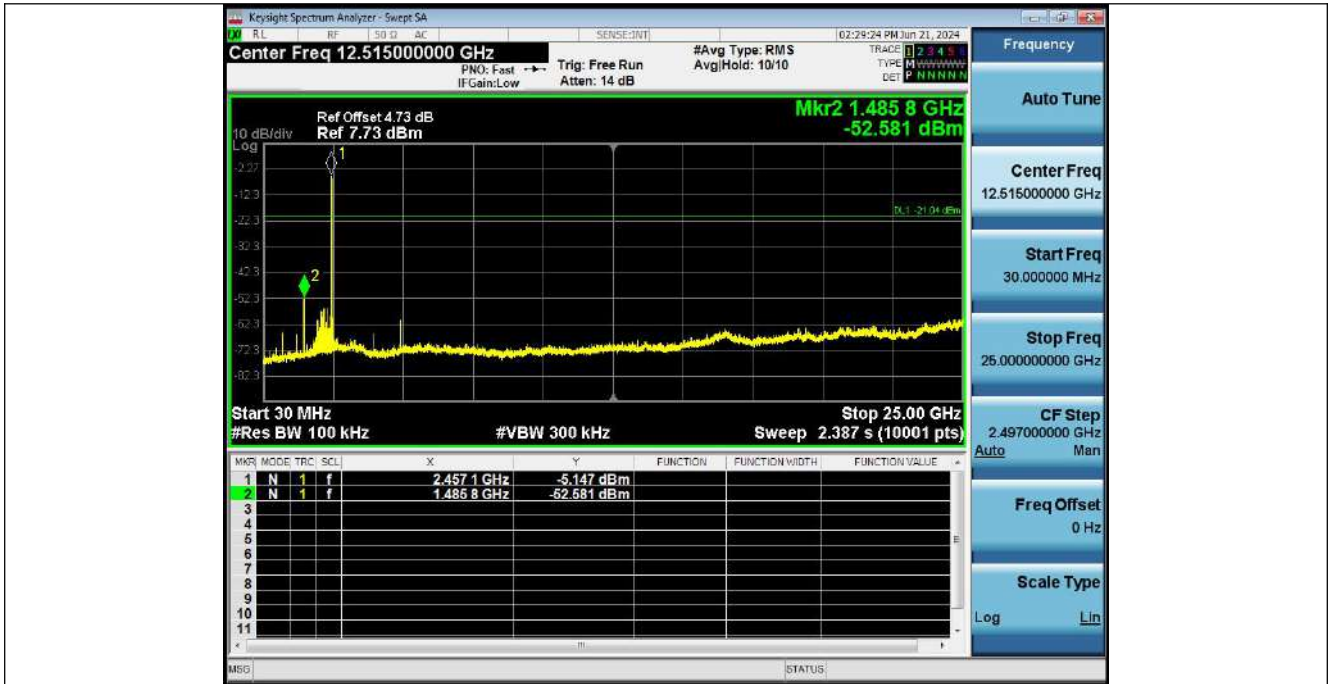
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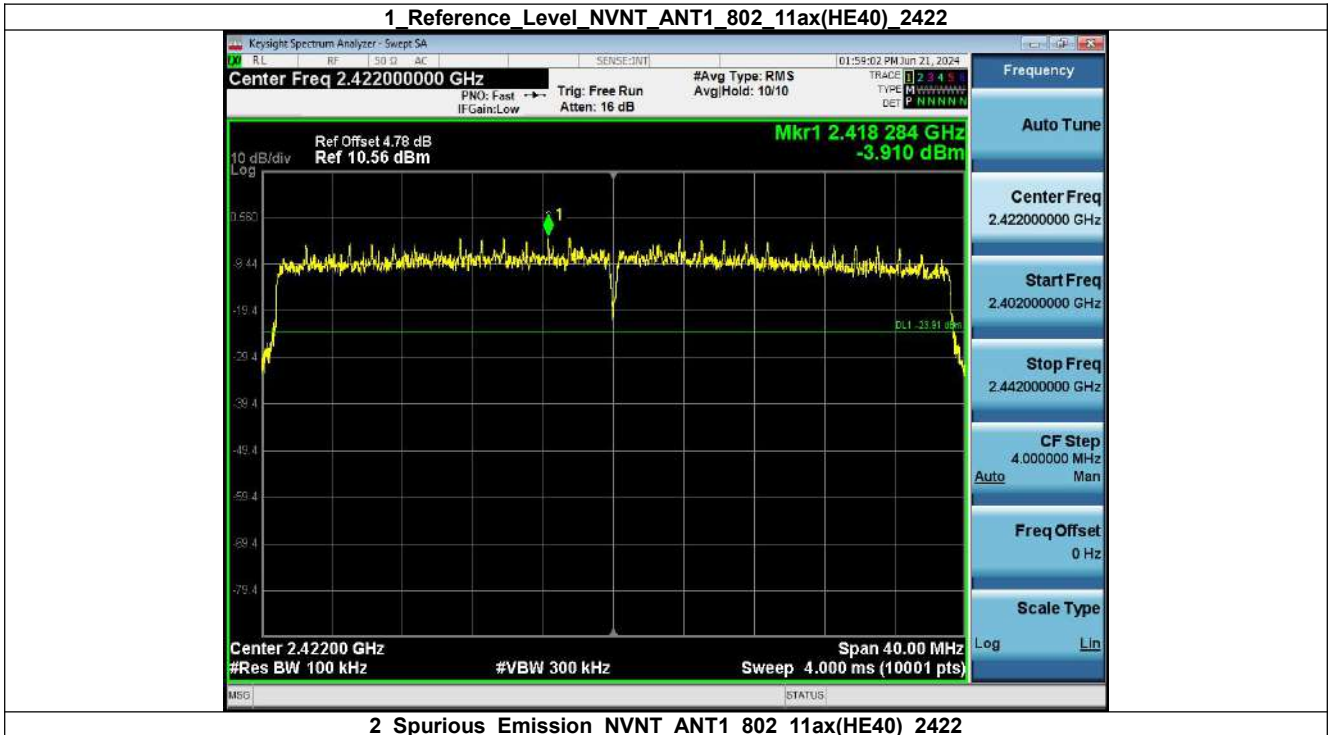
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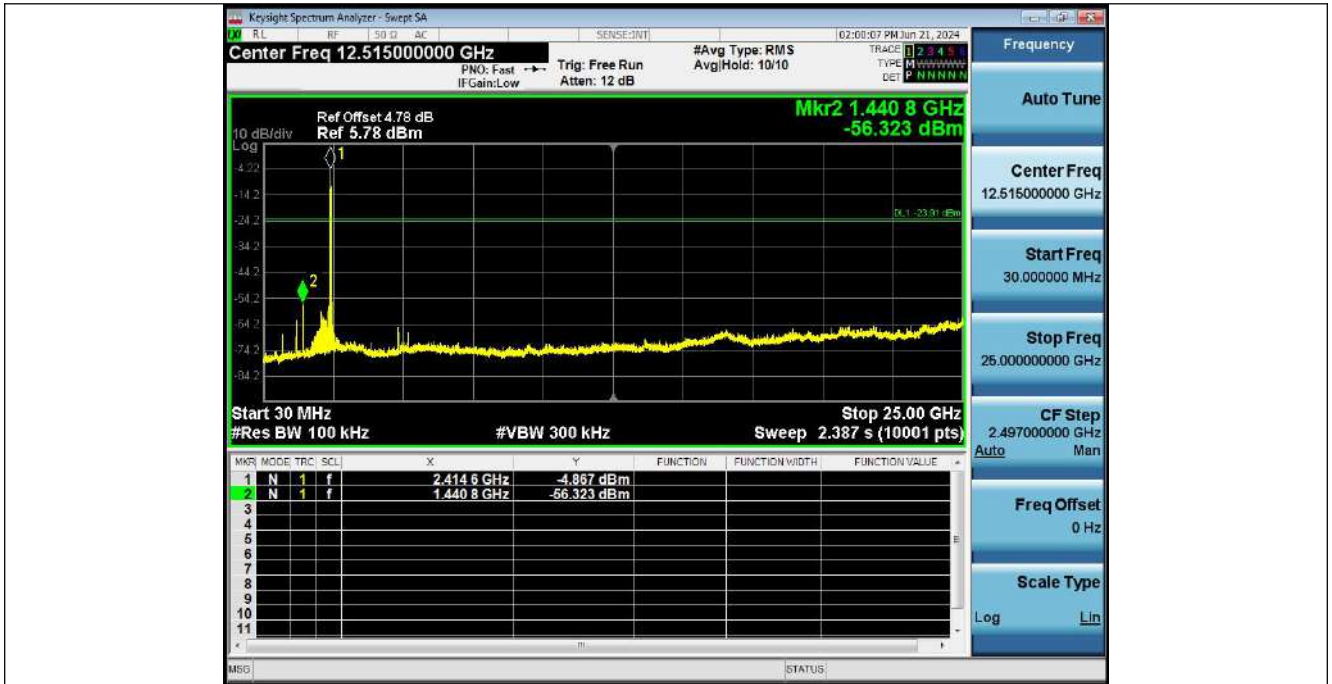
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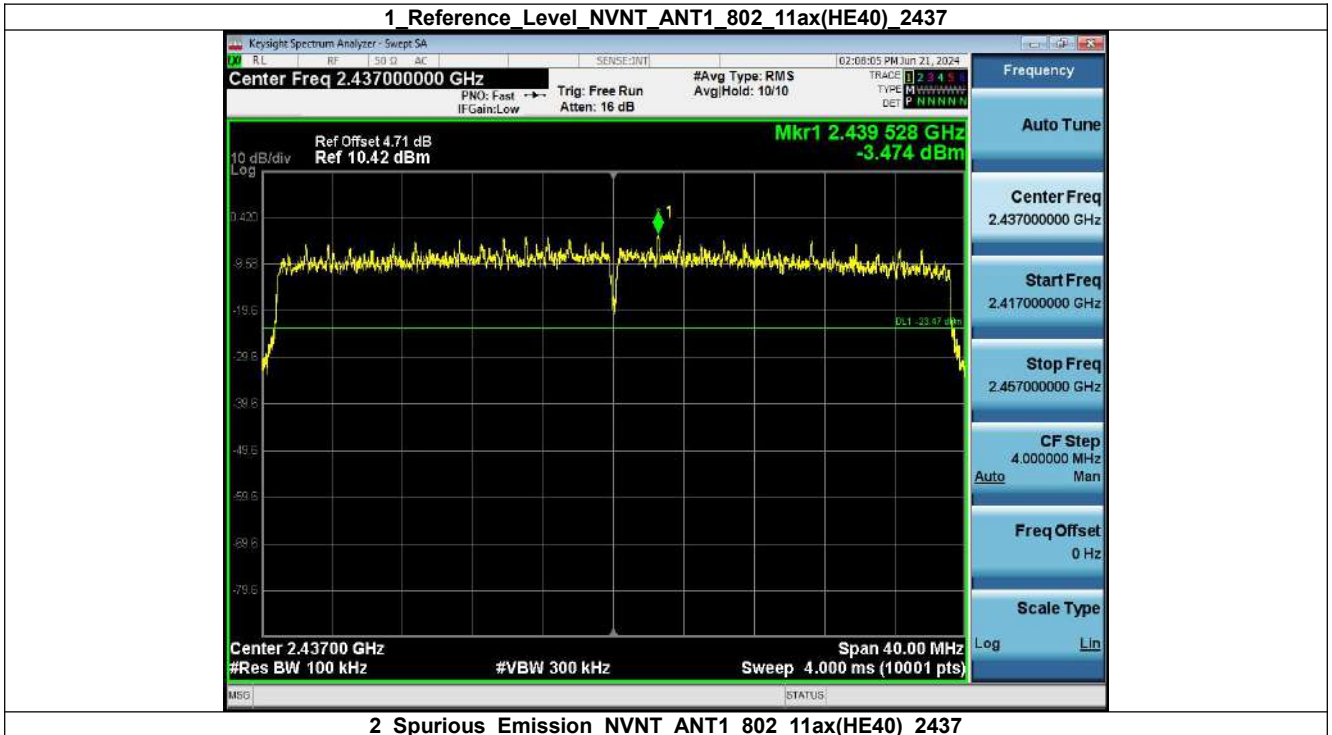
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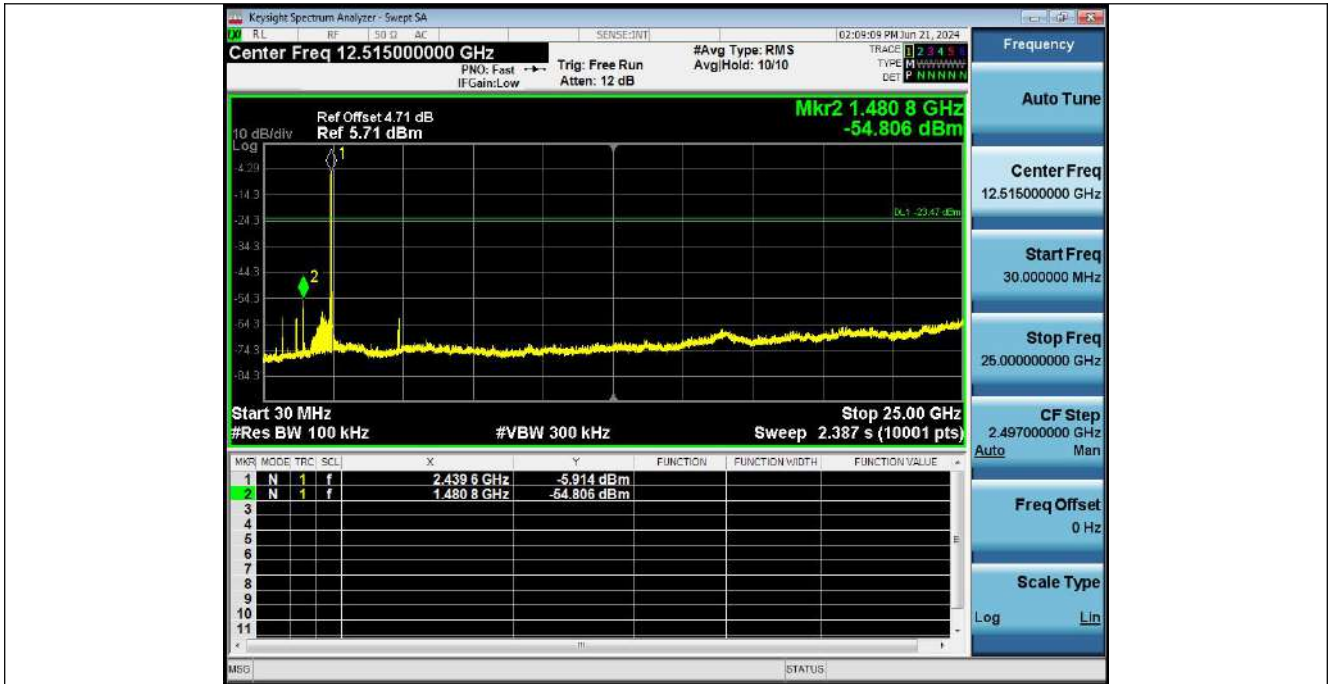
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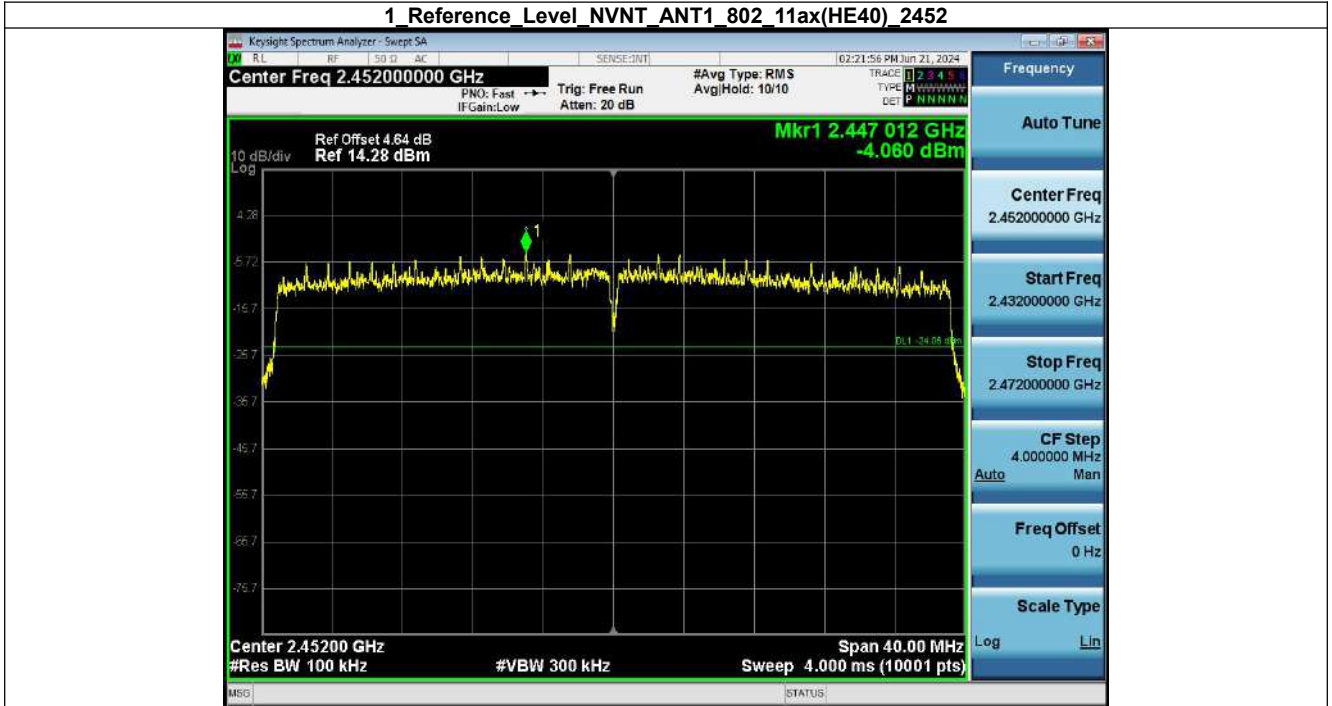
1 Reference Level NVNT ANT1_802_11ax(HE40)_2437



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

