

FCC Appendix RF Test Data for 2.4GWIFI

Product Name: Smart Diagnostic System

Test Model: P720

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -6dB Bandwidth

RTL8821:

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.087	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.11	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.108	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.232	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.366	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.359	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.345	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.462	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.365	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.688	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.963	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.577	≥ 0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



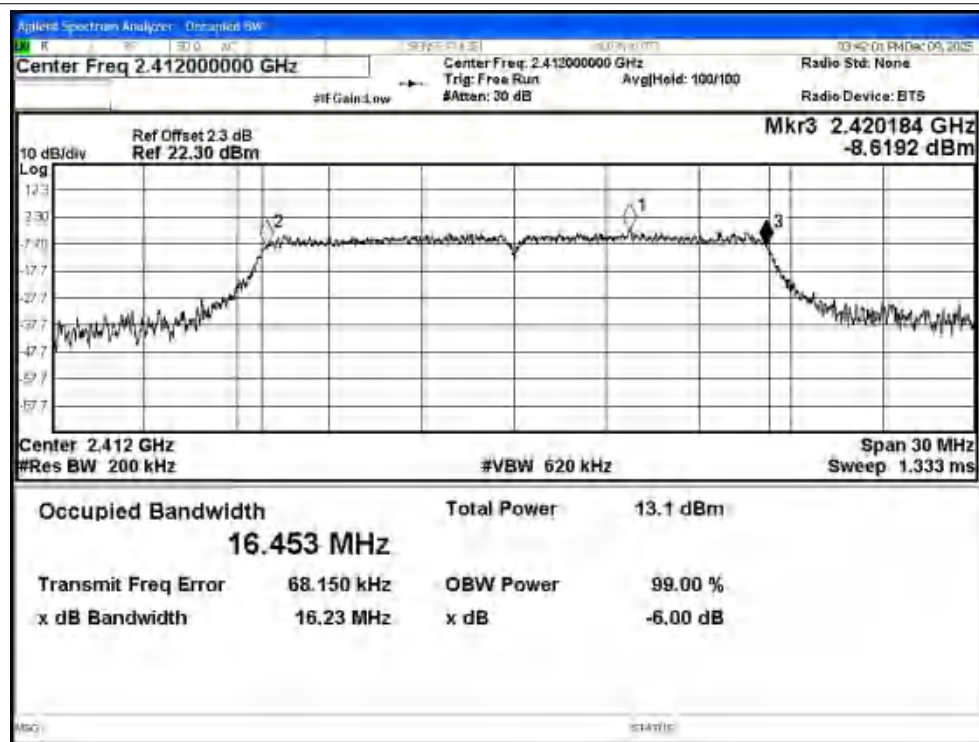
-6dB Bandwidth NVNT b 2437MHz Ant1



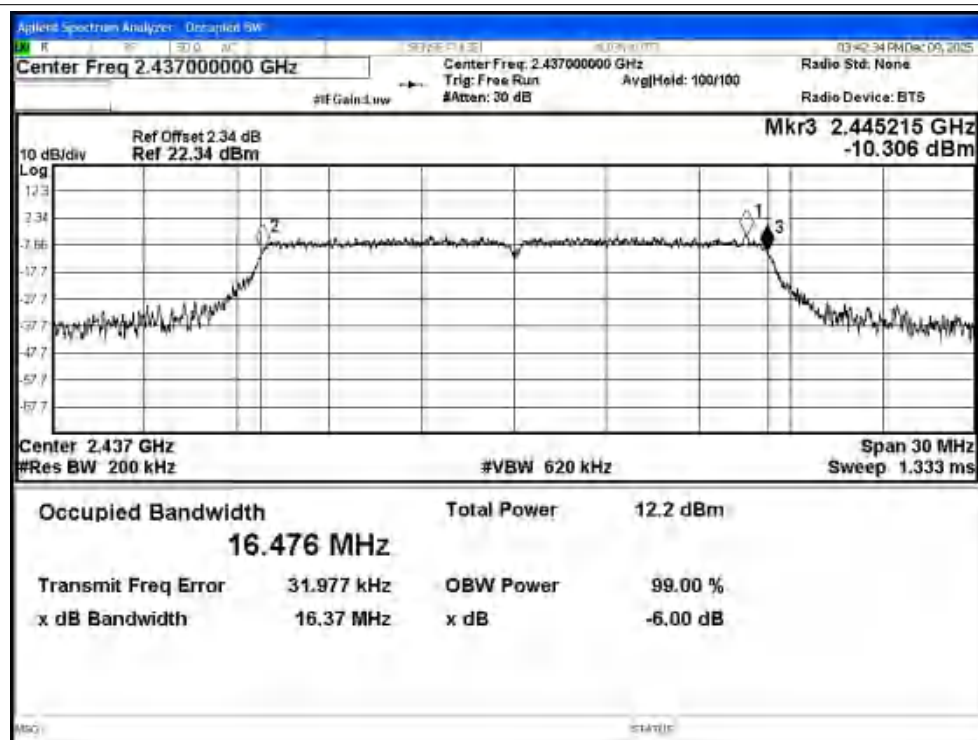
-6dB Bandwidth NVNT b 2462MHz Ant1



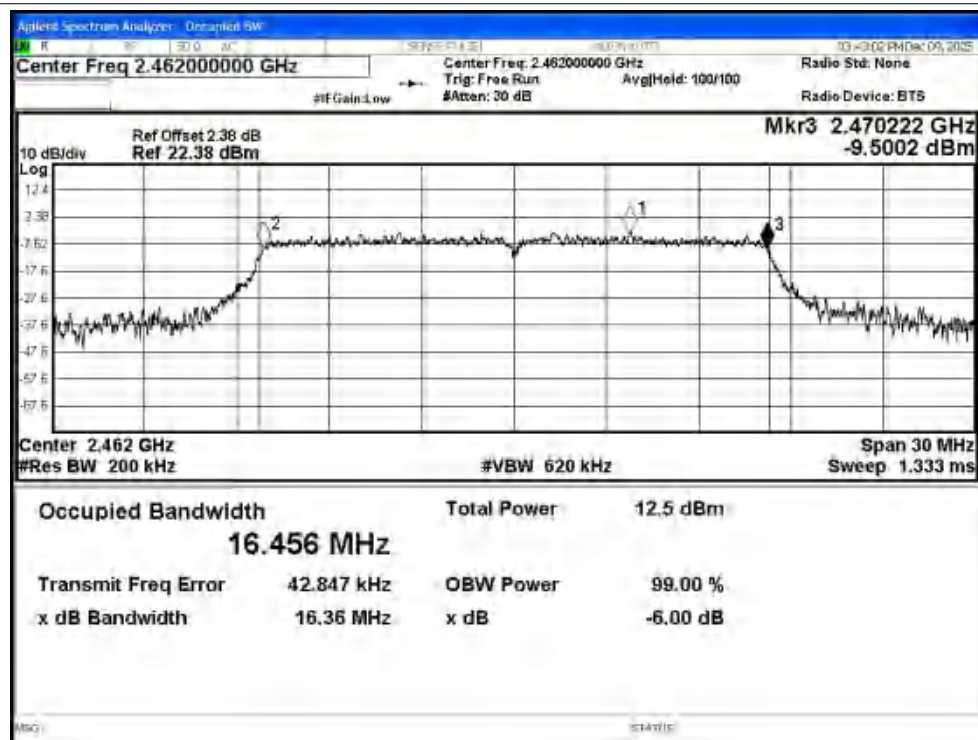
-6dB Bandwidth NVNT g 2412MHz Ant1



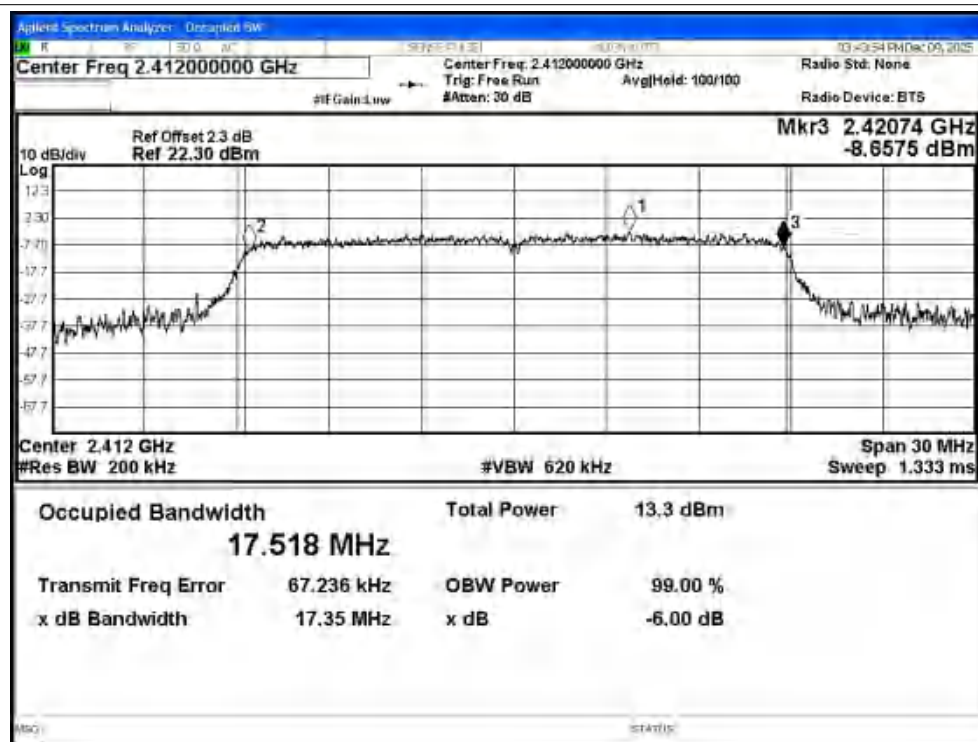
-6dB Bandwidth NVNT g 2437MHz Ant1



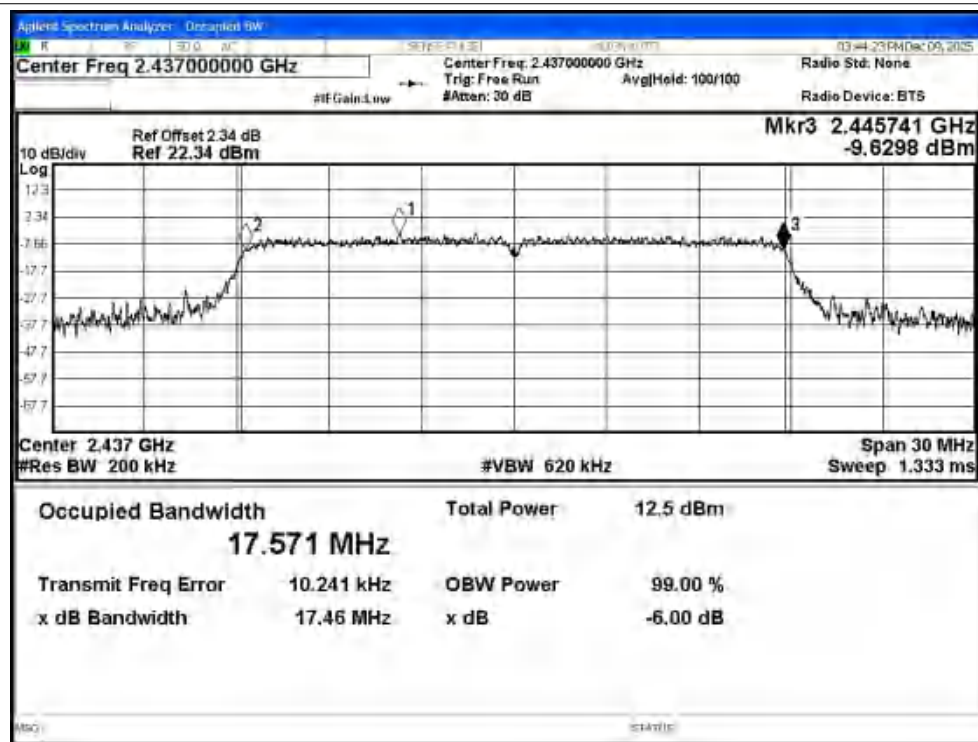
-6dB Bandwidth NVNT g 2462MHz Ant1



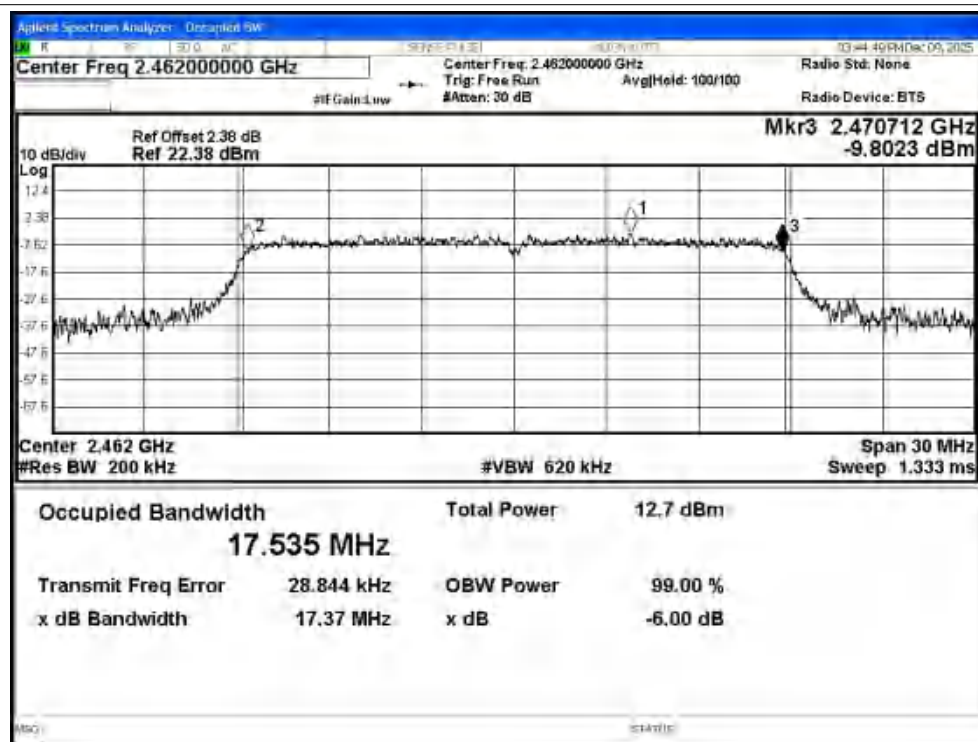
-6dB Bandwidth NVNT n20 2412MHz Ant1



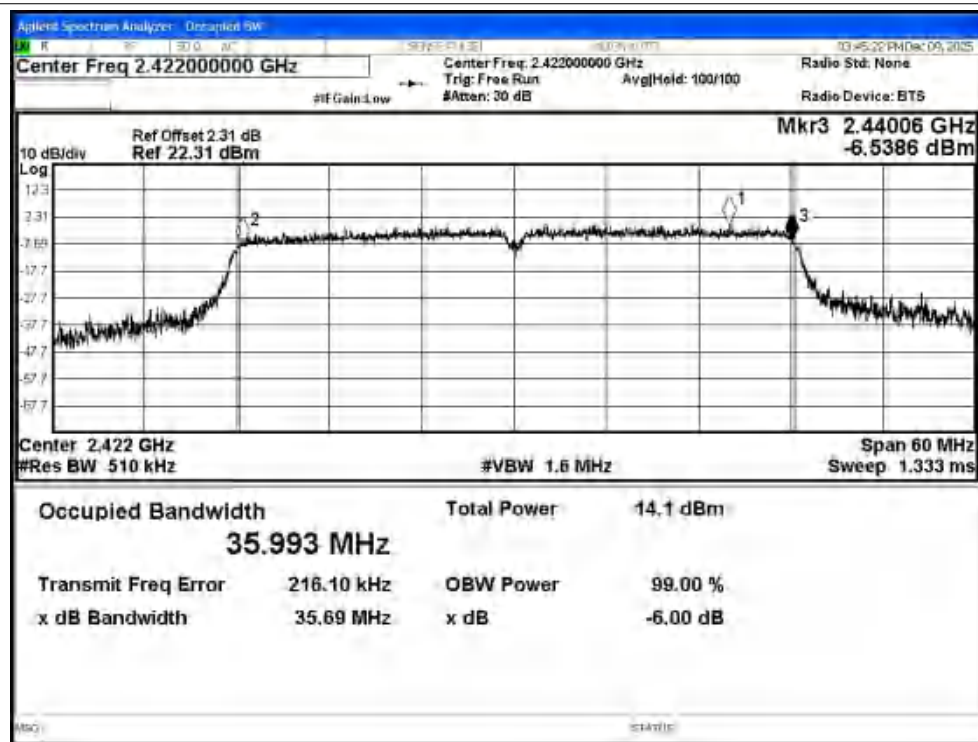
-6dB Bandwidth NVNT n20 2437MHz Ant1



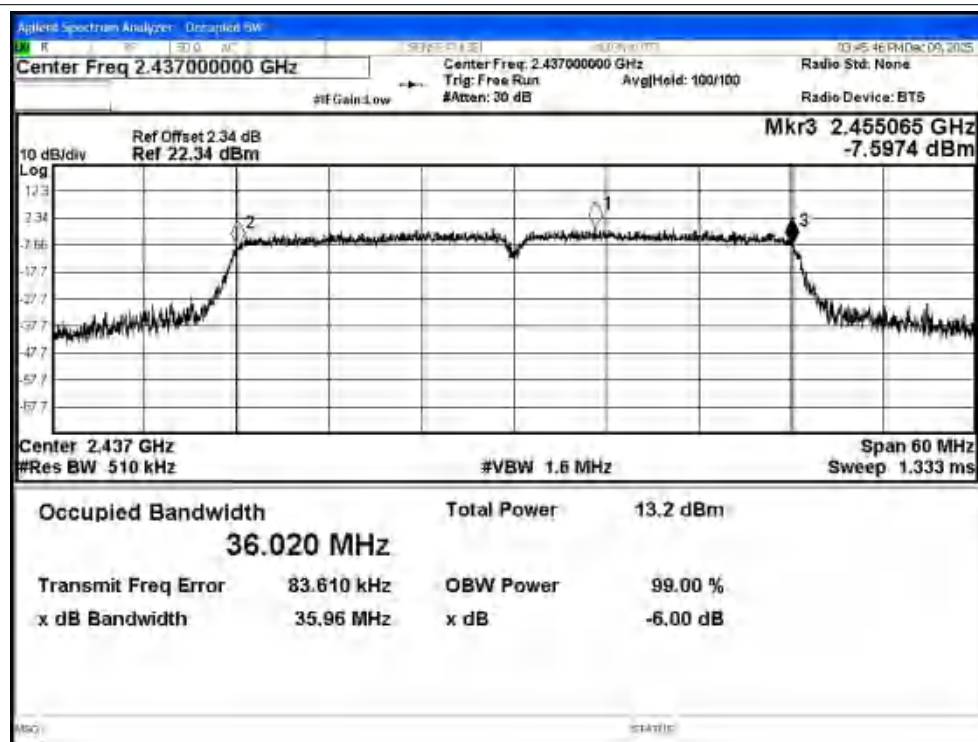
-6dB Bandwidth NVNT n20 2462MHz Ant1



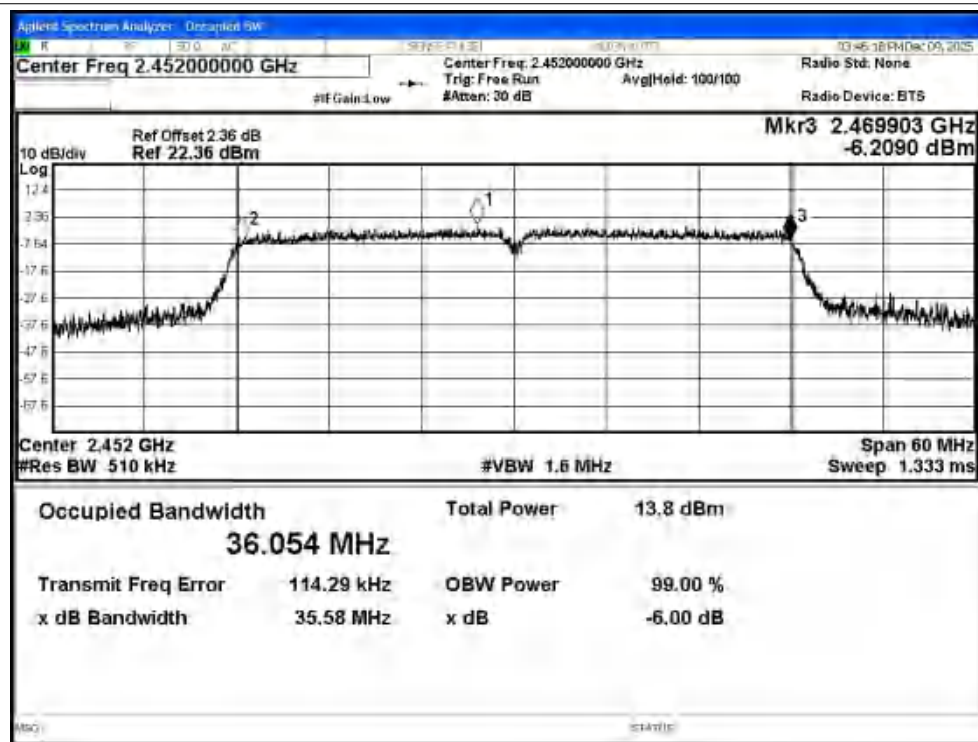
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



ESP32:

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	9.087	≥ 0.5	Pass
NVNT	b	2437	Ant2	9.107	≥ 0.5	Pass
NVNT	b	2462	Ant2	9.1	≥ 0.5	Pass
NVNT	g	2412	Ant2	16.174	≥ 0.5	Pass
NVNT	g	2437	Ant2	16.393	≥ 0.5	Pass
NVNT	g	2462	Ant2	16.388	≥ 0.5	Pass
NVNT	n20	2412	Ant2	17.319	≥ 0.5	Pass
NVNT	n20	2437	Ant2	17.551	≥ 0.5	Pass
NVNT	n20	2462	Ant2	17.431	≥ 0.5	Pass
NVNT	n40	2422	Ant2	35.586	≥ 0.5	Pass
NVNT	n40	2437	Ant2	35.685	≥ 0.5	Pass
NVNT	n40	2452	Ant2	35.915	≥ 0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant2



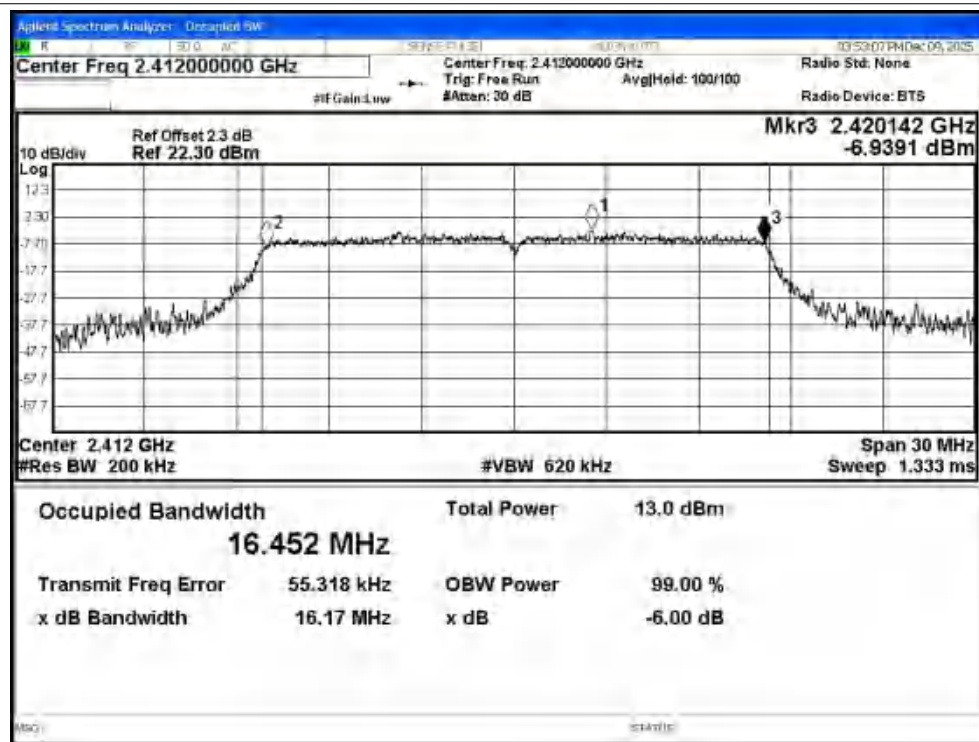
-6dB Bandwidth NVNT b 2437MHz Ant2



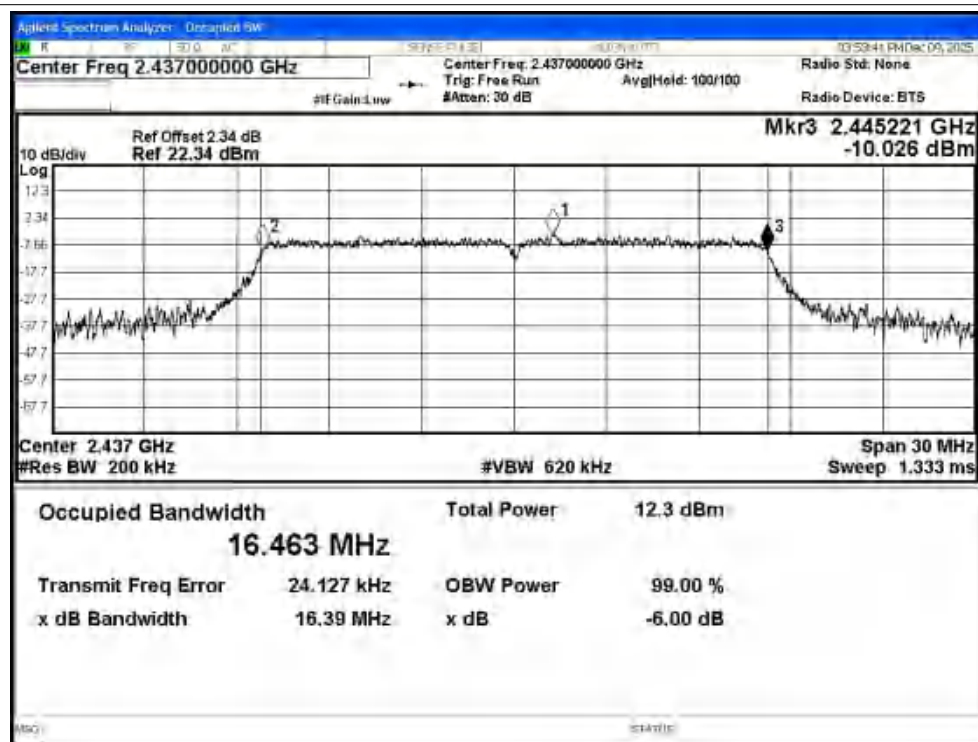
-6dB Bandwidth NVNT b 2462MHz Ant2



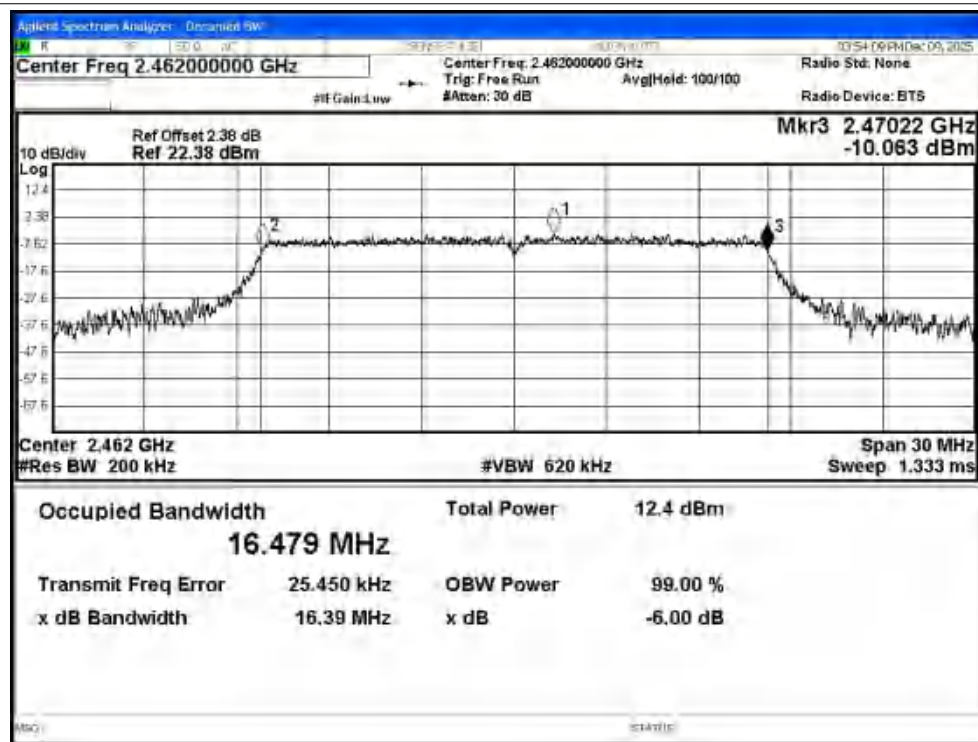
-6dB Bandwidth NVNT g 2412MHz Ant2



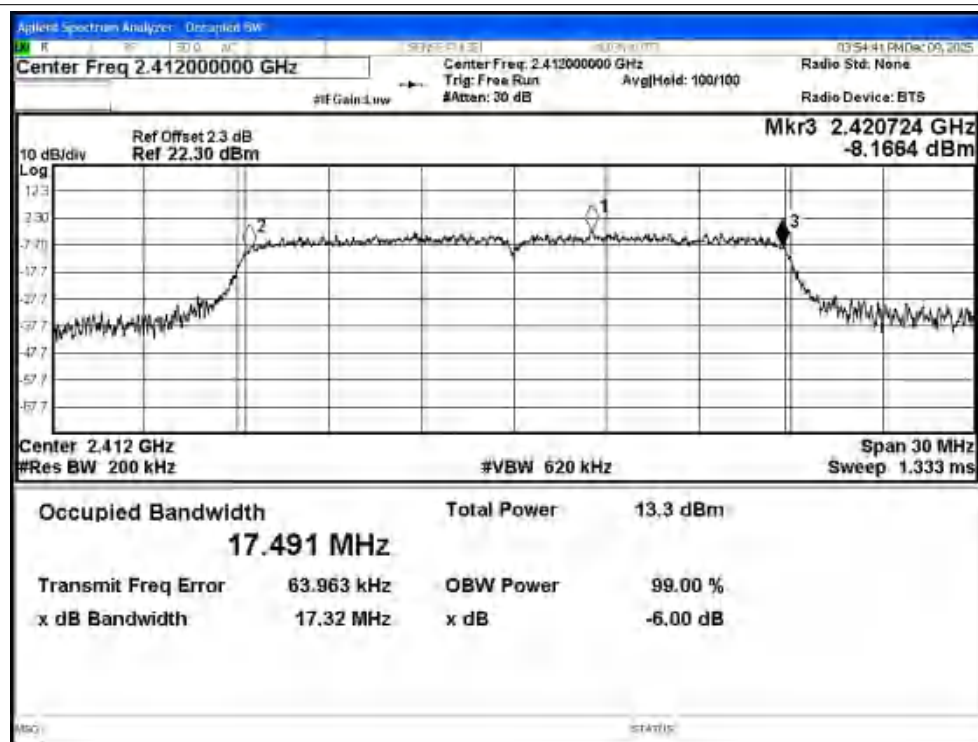
-6dB Bandwidth NVNT g 2437MHz Ant2



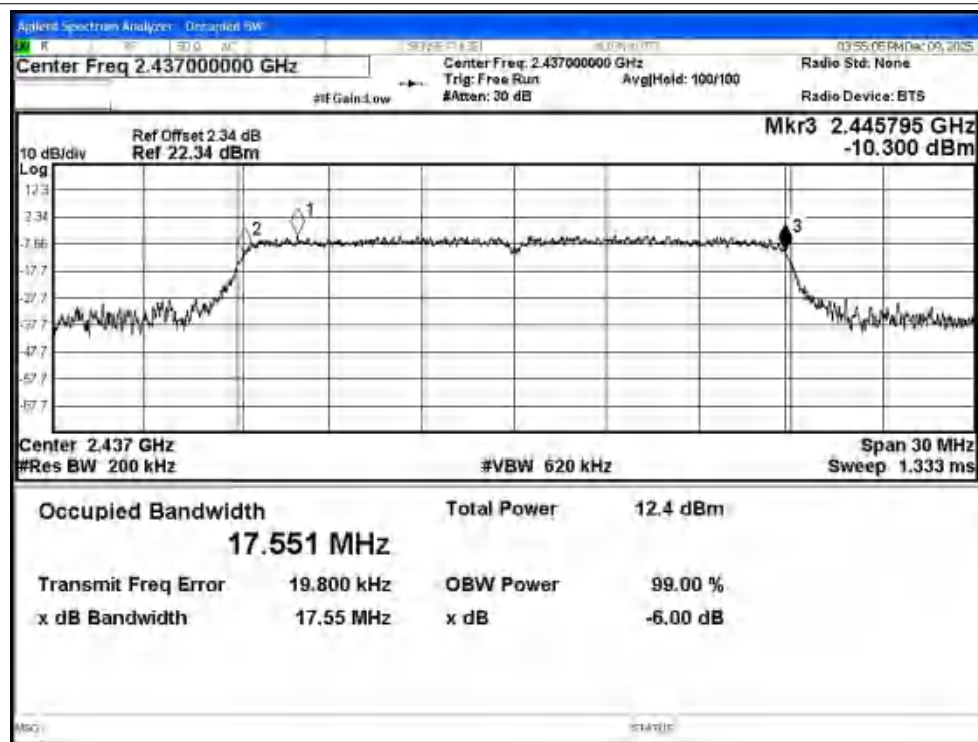
-6dB Bandwidth NVNT g 2462MHz Ant2



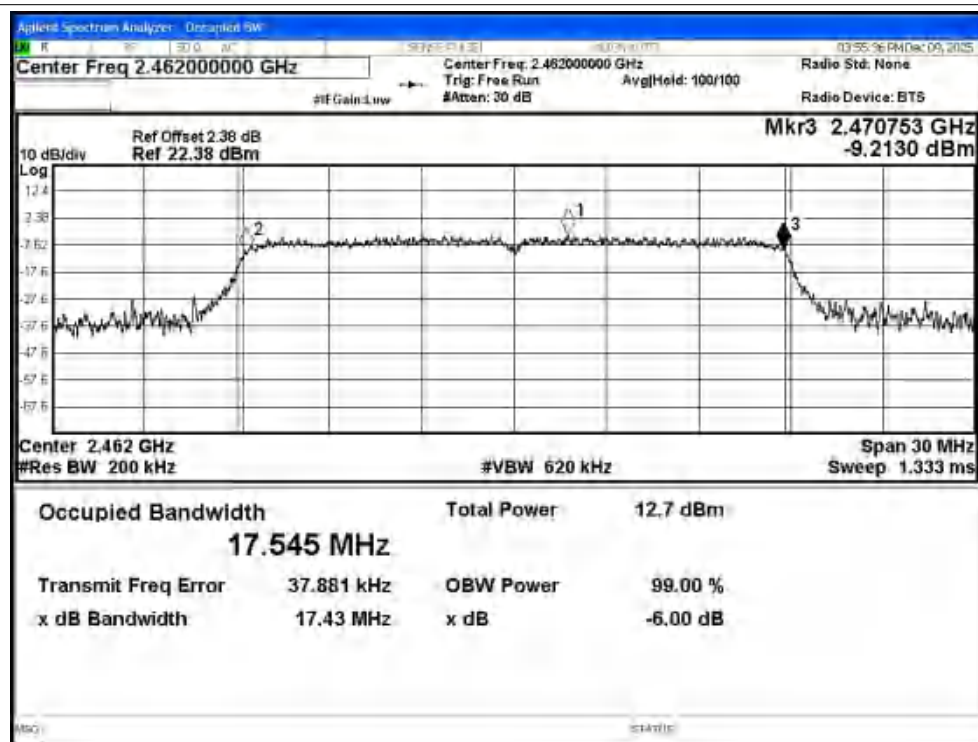
-6dB Bandwidth NVNT n20 2412MHz Ant2



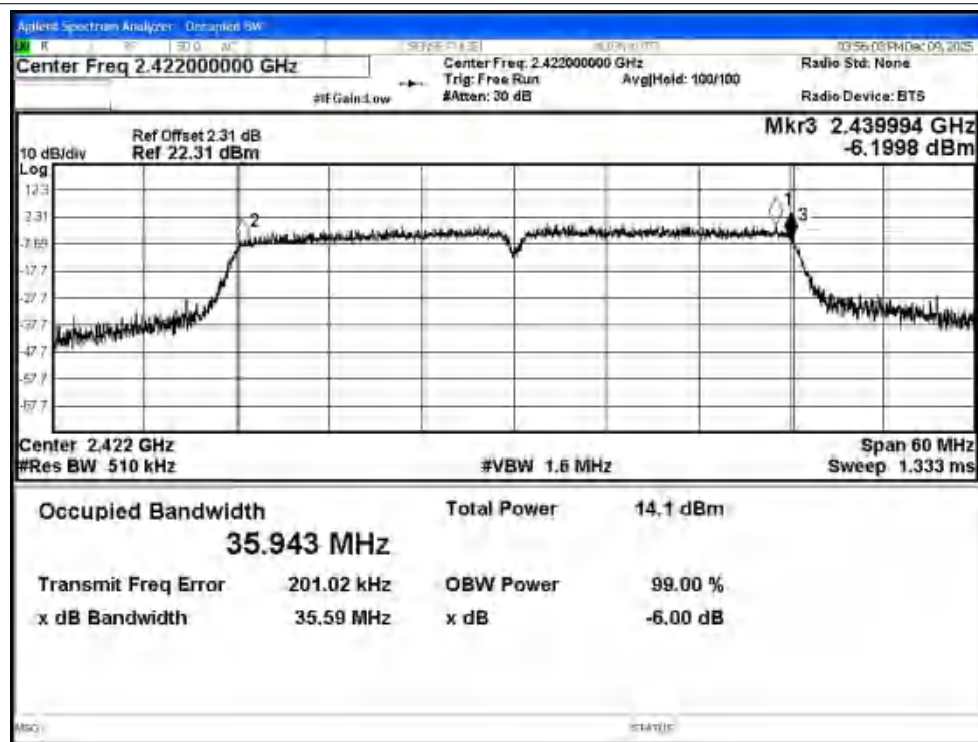
-6dB Bandwidth NVNT n20 2437MHz Ant2



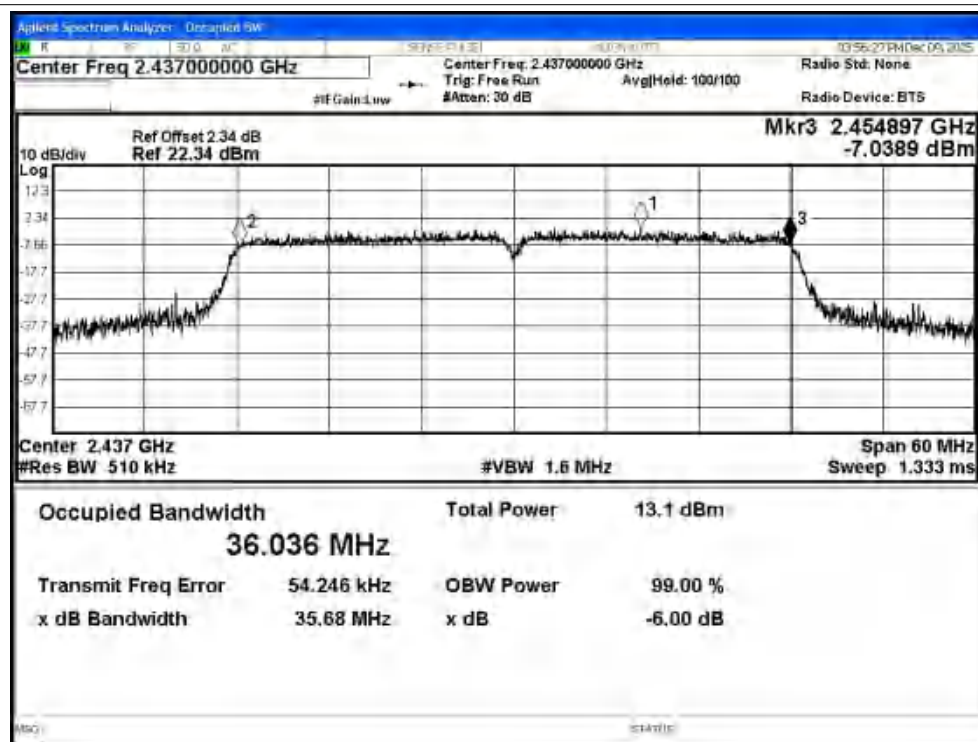
-6dB Bandwidth NVNT n20 2462MHz Ant2



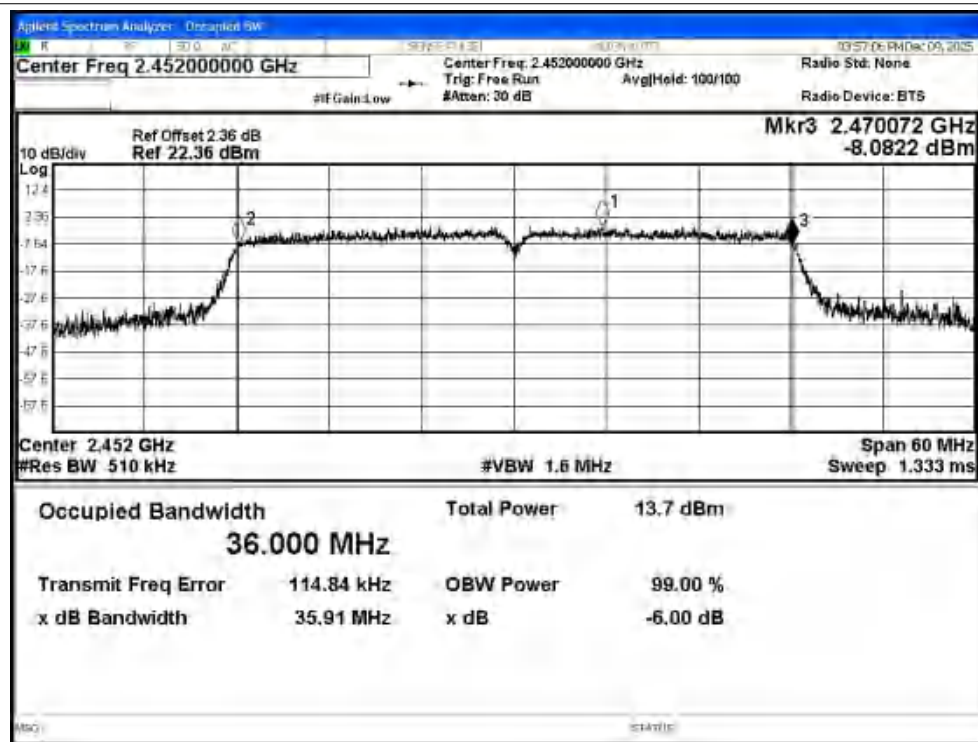
-6dB Bandwidth NVNT n40 2422MHz Ant2



-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



2 Maximum Peak Conducted Output Power

RTL8821:

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.57	30	Pass
NVNT	b	2437	Ant1	15.87	30	Pass
NVNT	b	2462	Ant1	15.79	30	Pass
NVNT	g	2412	Ant1	14.61	30	Pass
NVNT	g	2437	Ant1	14.90	30	Pass
NVNT	g	2462	Ant1	14.63	30	Pass
NVNT	n20	2412	Ant1	13.37	30	Pass
NVNT	n20	2437	Ant1	13.79	30	Pass
NVNT	n20	2462	Ant1	13.75	30	Pass
NVNT	n40	2422	Ant1	12.81	30	Pass
NVNT	n40	2437	Ant1	12.96	30	Pass
NVNT	n40	2452	Ant1	13.02	30	Pass

ESP32:

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	14.34	30	Pass
NVNT	b	2437	Ant2	14.53	30	Pass
NVNT	b	2462	Ant2	14.55	30	Pass
NVNT	g	2412	Ant2	13.48	30	Pass
NVNT	g	2437	Ant2	13.73	30	Pass
NVNT	g	2462	Ant2	13.59	30	Pass
NVNT	n20	2412	Ant2	12.26	30	Pass
NVNT	n20	2437	Ant2	12.42	30	Pass
NVNT	n20	2462	Ant2	12.53	30	Pass
NVNT	n40	2422	Ant2	11.63	30	Pass
NVNT	n40	2437	Ant2	11.77	30	Pass
NVNT	n40	2452	Ant2	11.78	30	Pass

3 Maximum Power Spectral Density Level

RTL8821:

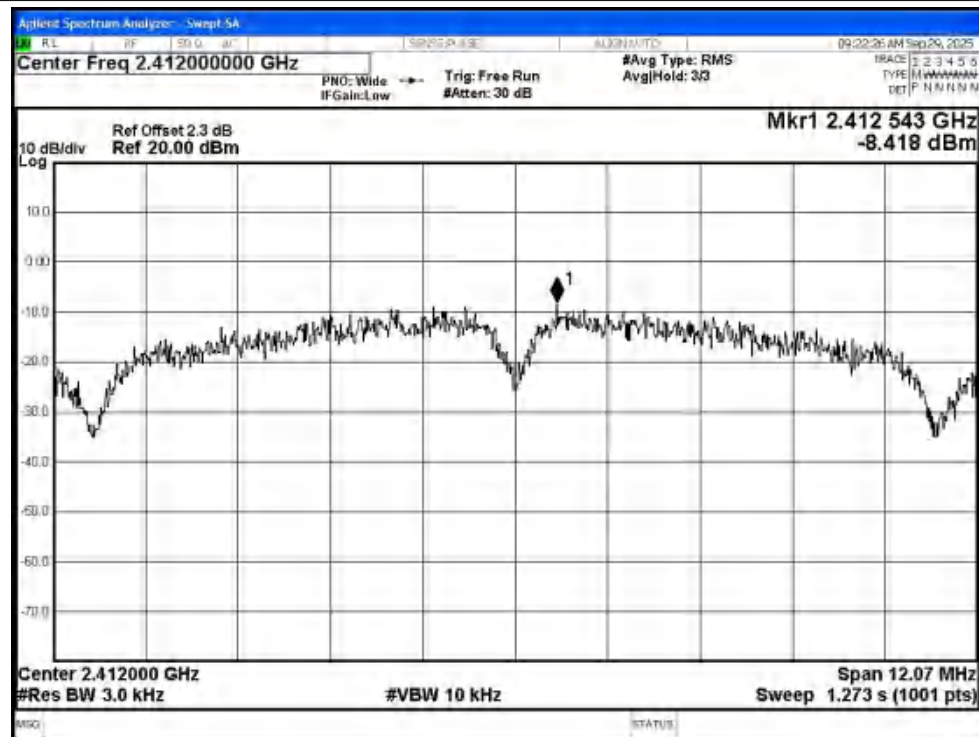
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.42	8	Pass
NVNT	b	2437	Ant1	-7.1	8	Pass
NVNT	b	2462	Ant1	-8.11	8	Pass
NVNT	g	2412	Ant1	-14.39	8	Pass
NVNT	g	2437	Ant1	-14.87	8	Pass
NVNT	g	2462	Ant1	-15.13	8	Pass
NVNT	n20	2412	Ant1	-15.81	8	Pass
NVNT	n20	2437	Ant1	-15.23	8	Pass
NVNT	n20	2462	Ant1	-15.74	8	Pass
NVNT	n40	2422	Ant1	-19.58	8	Pass
NVNT	n40	2437	Ant1	-19.17	8	Pass
NVNT	n40	2452	Ant1	-18.74	8	Pass

ESP32:

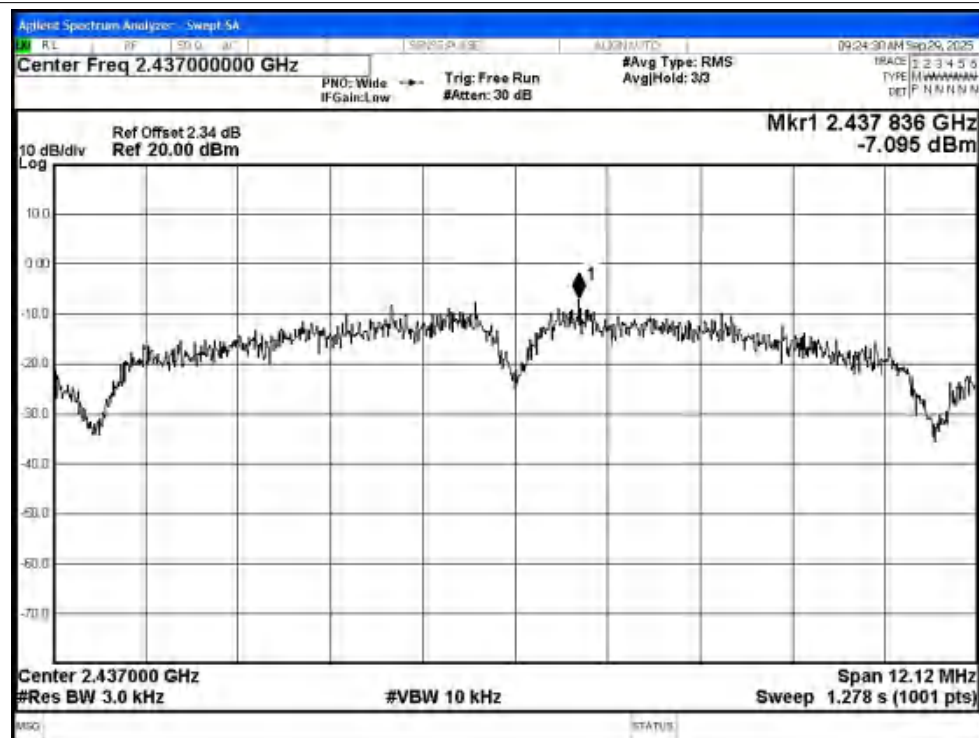
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant2	-9.65	8	Pass
NVNT	b	2437	Ant2	-8.58	8	Pass
NVNT	b	2462	Ant2	-9.4	8	Pass
NVNT	g	2412	Ant2	-16.14	8	Pass
NVNT	g	2437	Ant2	-15.78	8	Pass
NVNT	g	2462	Ant2	-15.62	8	Pass
NVNT	n20	2412	Ant2	-17.94	8	Pass
NVNT	n20	2437	Ant2	-16.54	8	Pass
NVNT	n20	2462	Ant2	-15.75	8	Pass
NVNT	n40	2422	Ant2	-20.25	8	Pass
NVNT	n40	2437	Ant2	-20.01	8	Pass
NVNT	n40	2452	Ant2	-20.74	8	Pass

Test Graphs

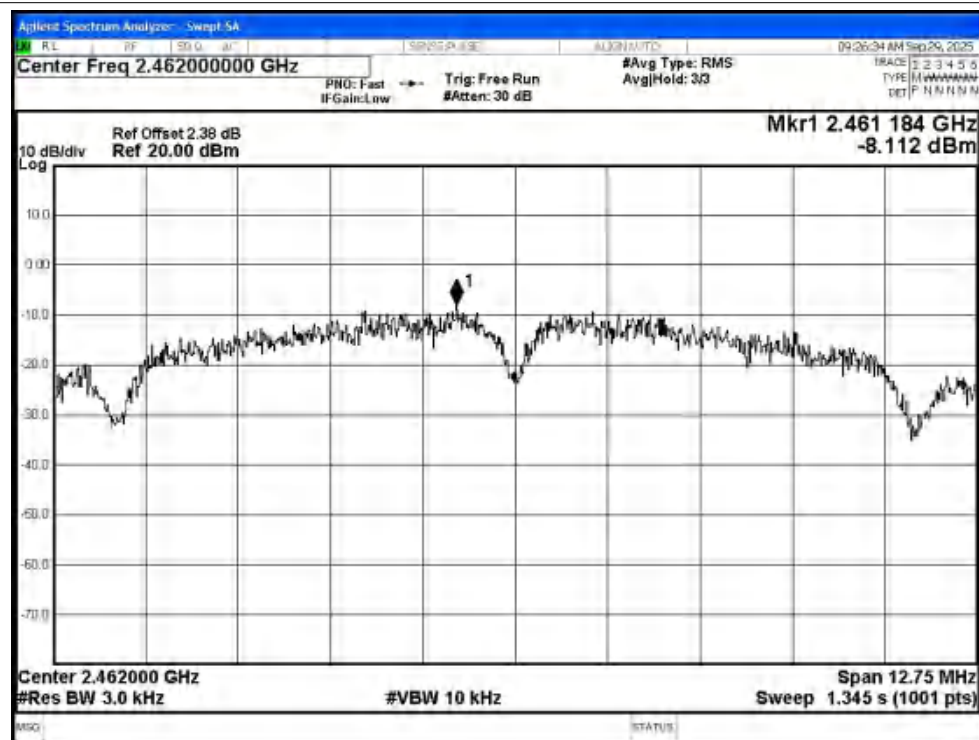
PSD NVNT b 2412MHz Ant1



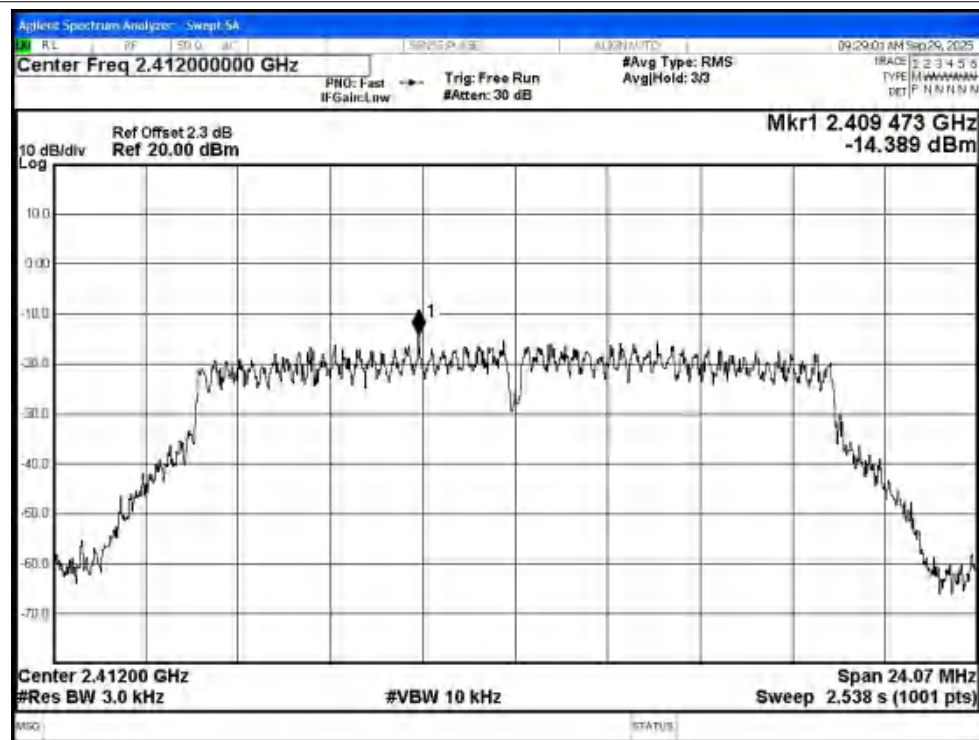
PSD NVNT b 2437MHz Ant1



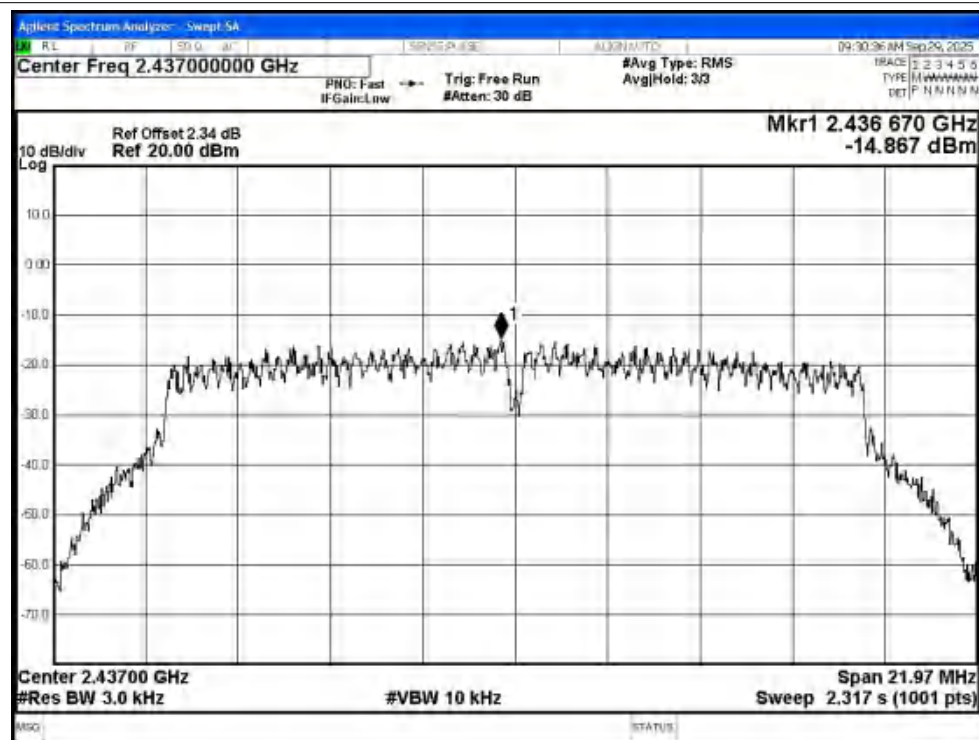
PSD NVNT b 2462MHz Ant1



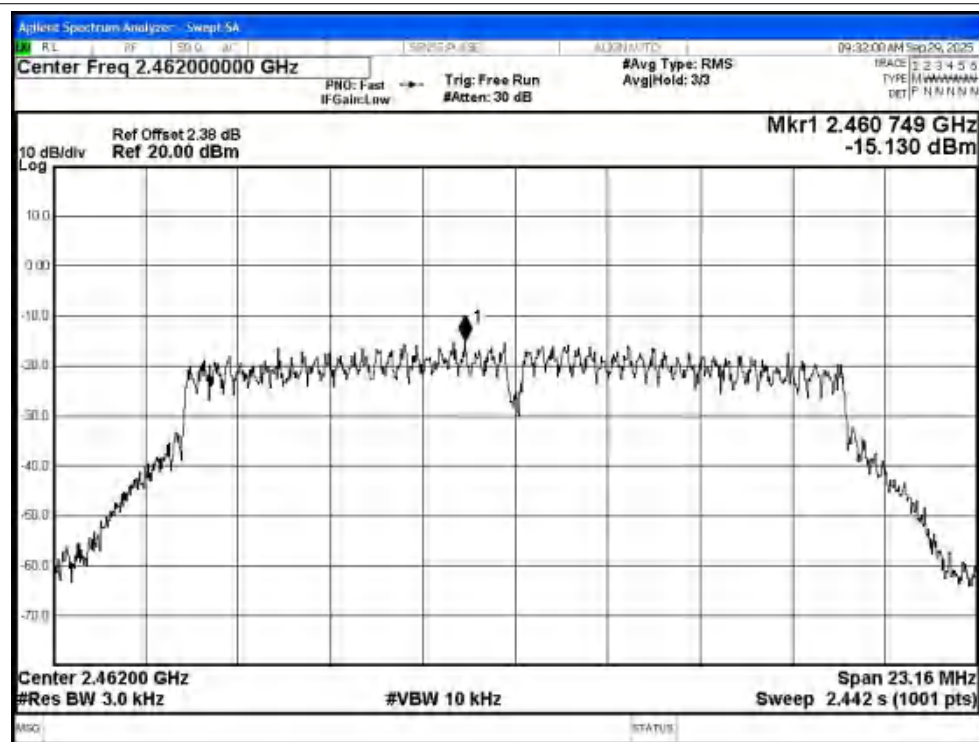
PSD NVNT g 2412MHz Ant1



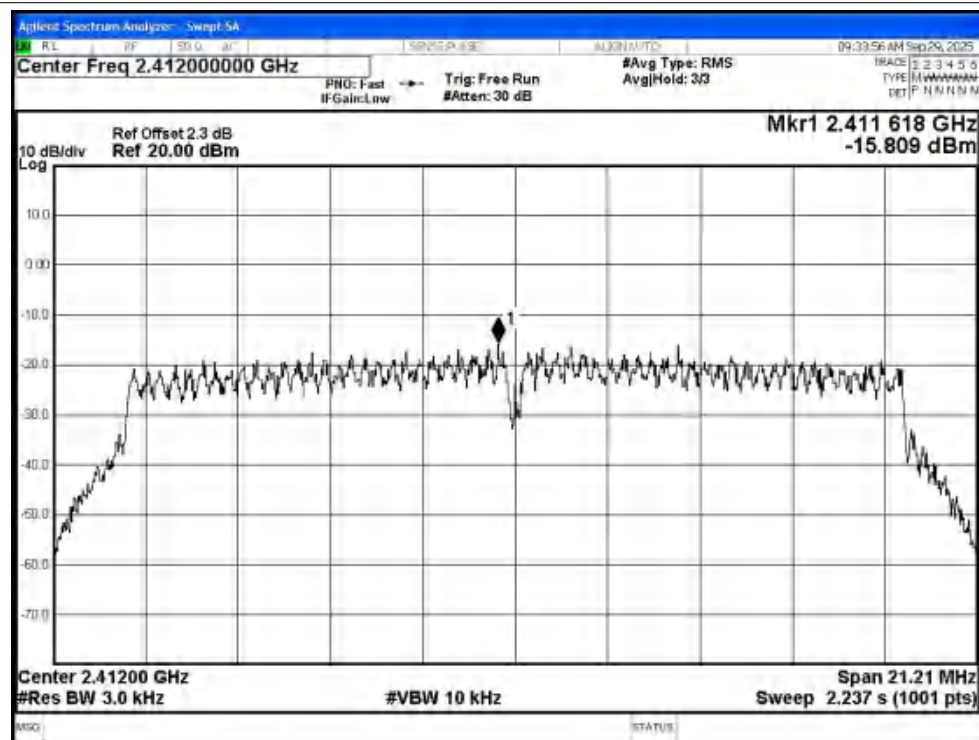
PSD NVNT g 2437MHz Ant1



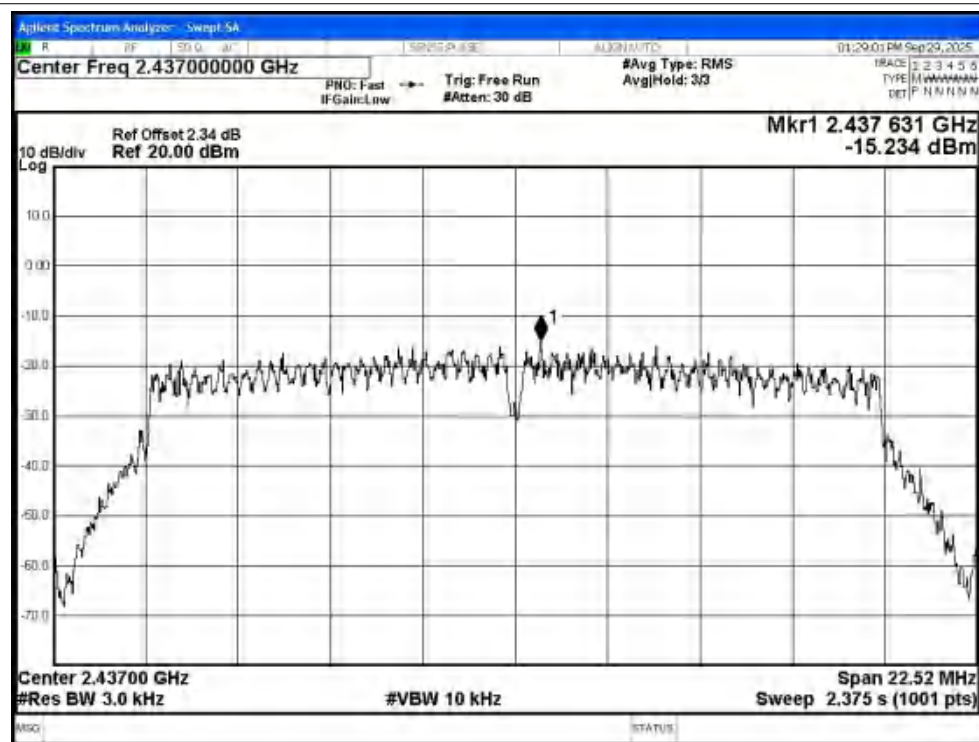
PSD NVNT g 2462MHz Ant1



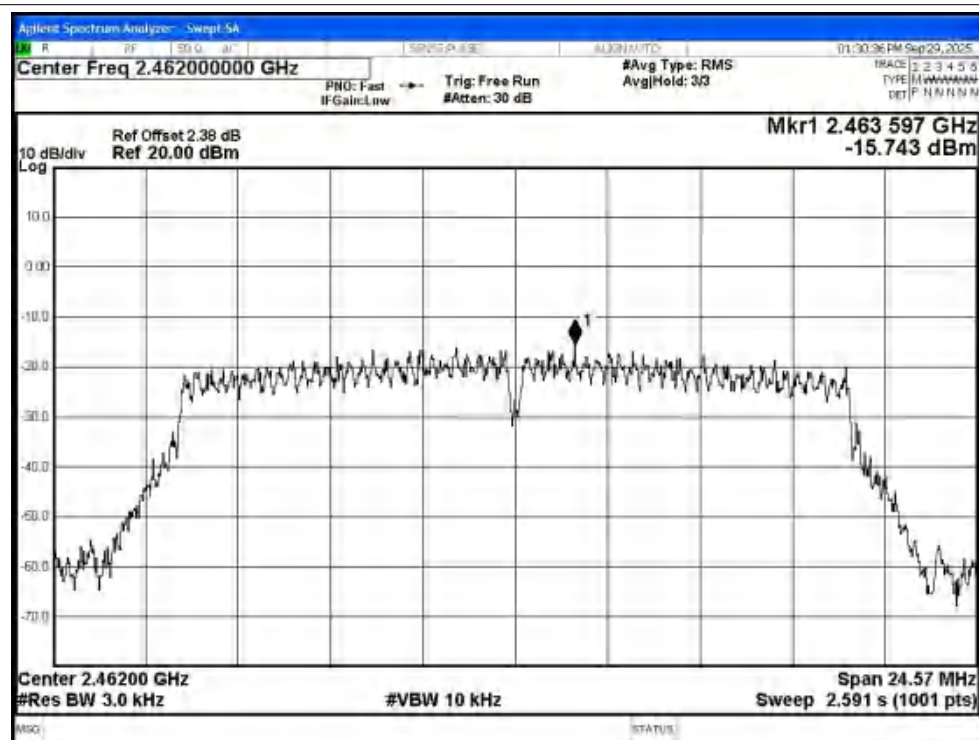
PSD NVNT n20 2412MHz Ant1



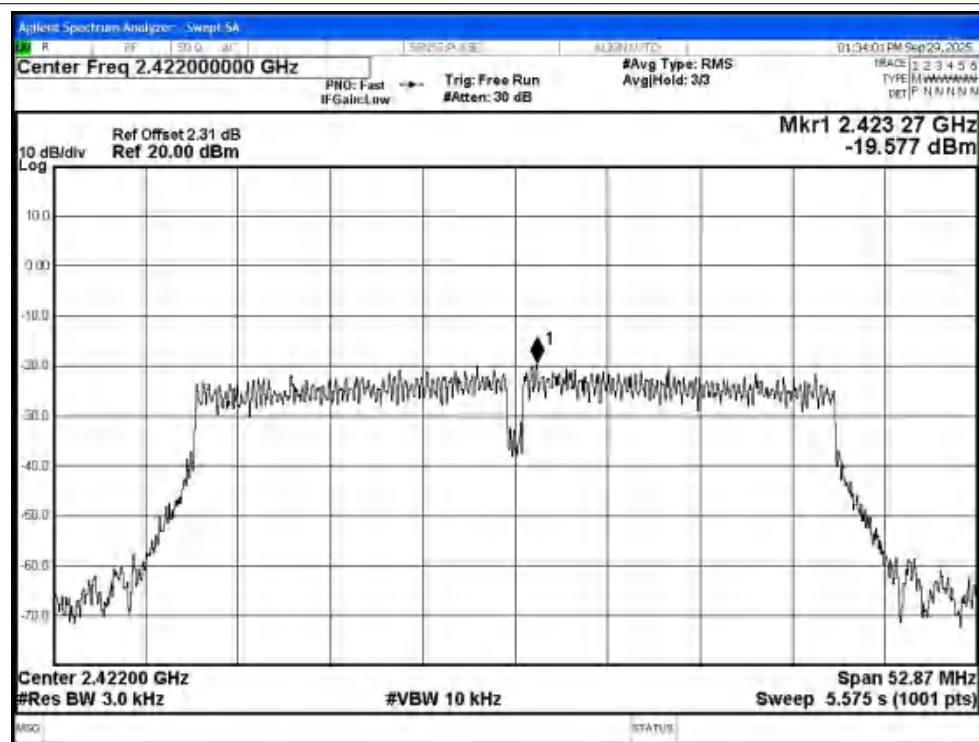
PSD NVNT n20 2437MHz Ant1



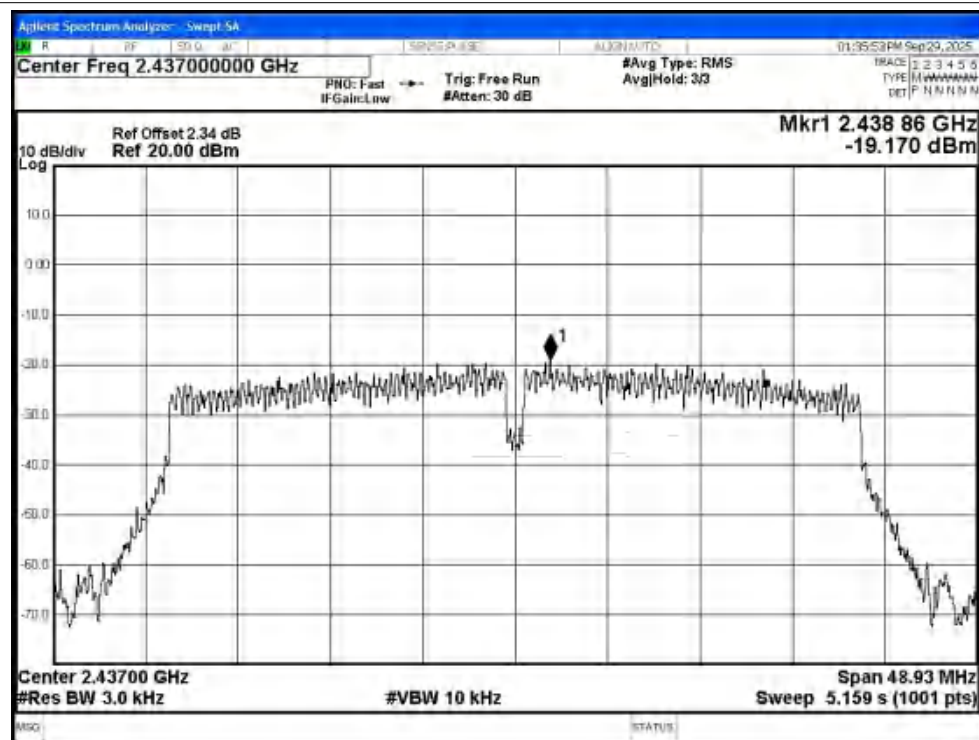
PSD NVNT n20 2462MHz Ant1



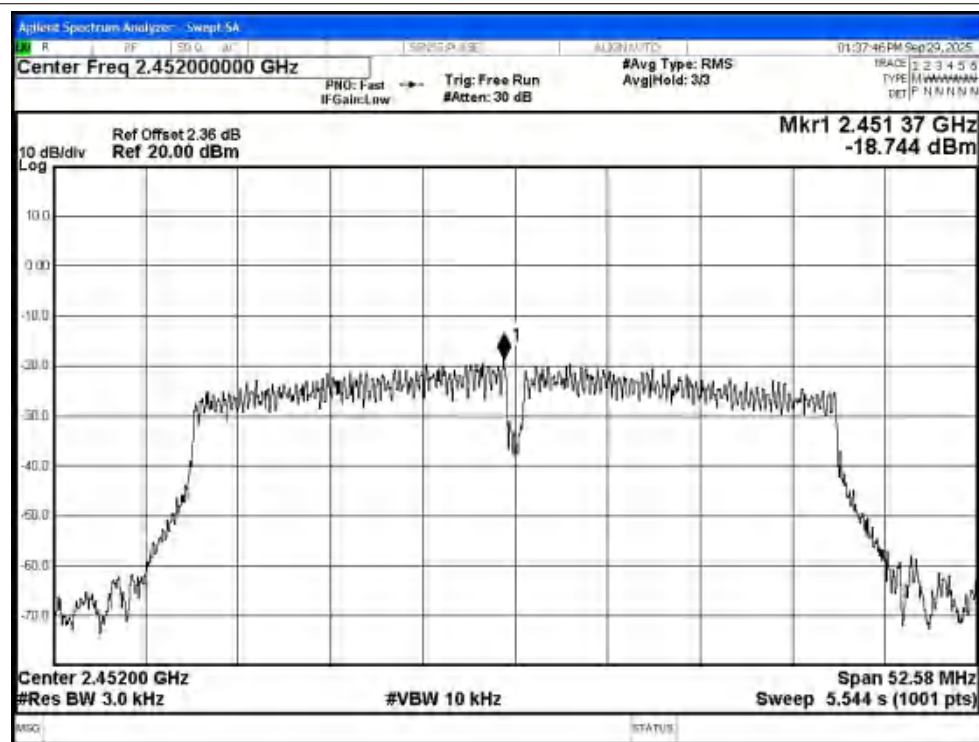
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1

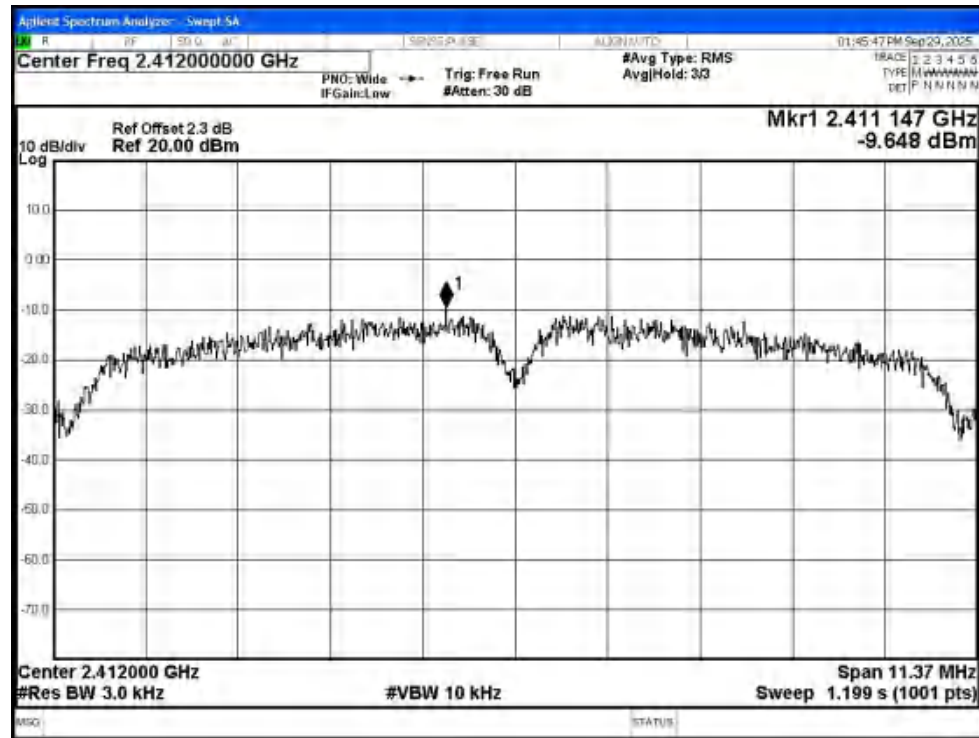


PSD NVNT n40 2452MHz Ant1

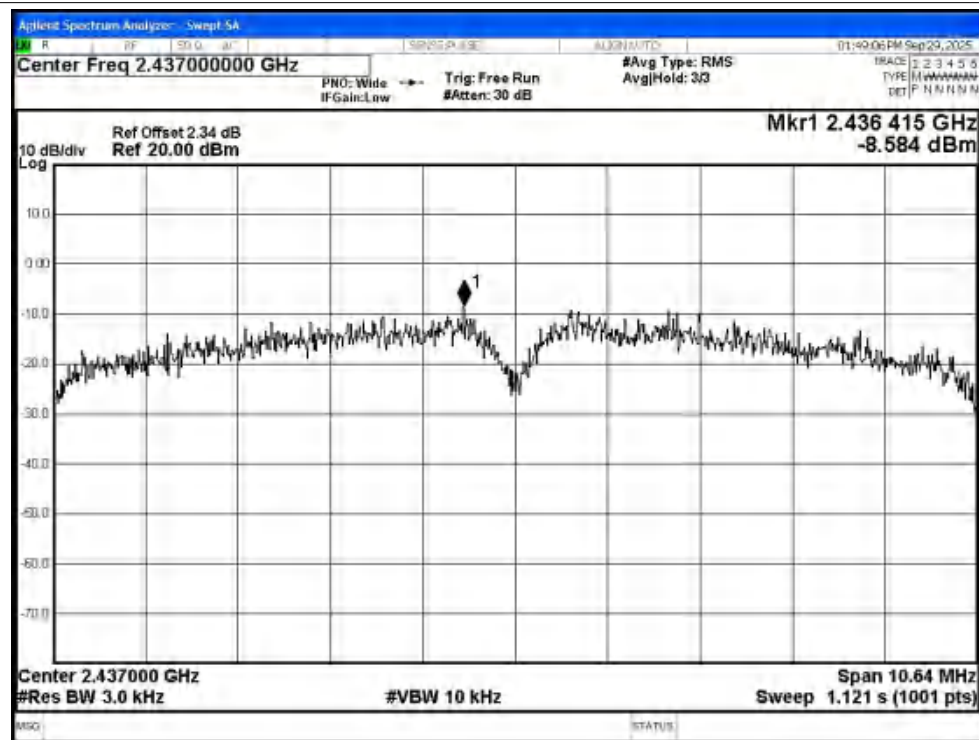


Test Graphs

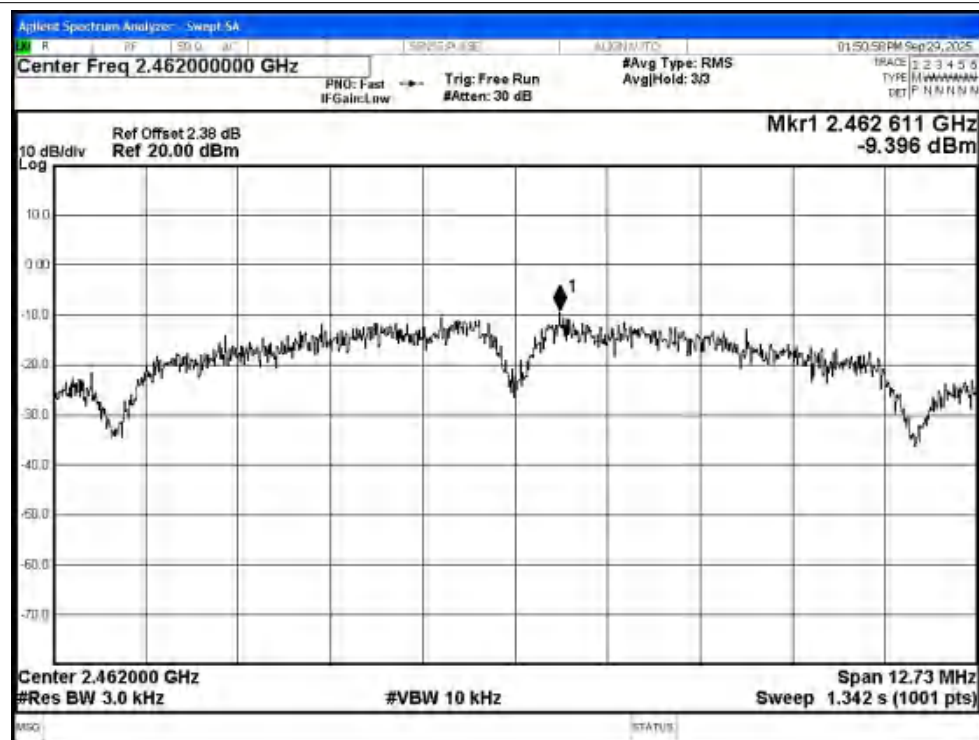
PSD NVNT b 2412MHz Ant2



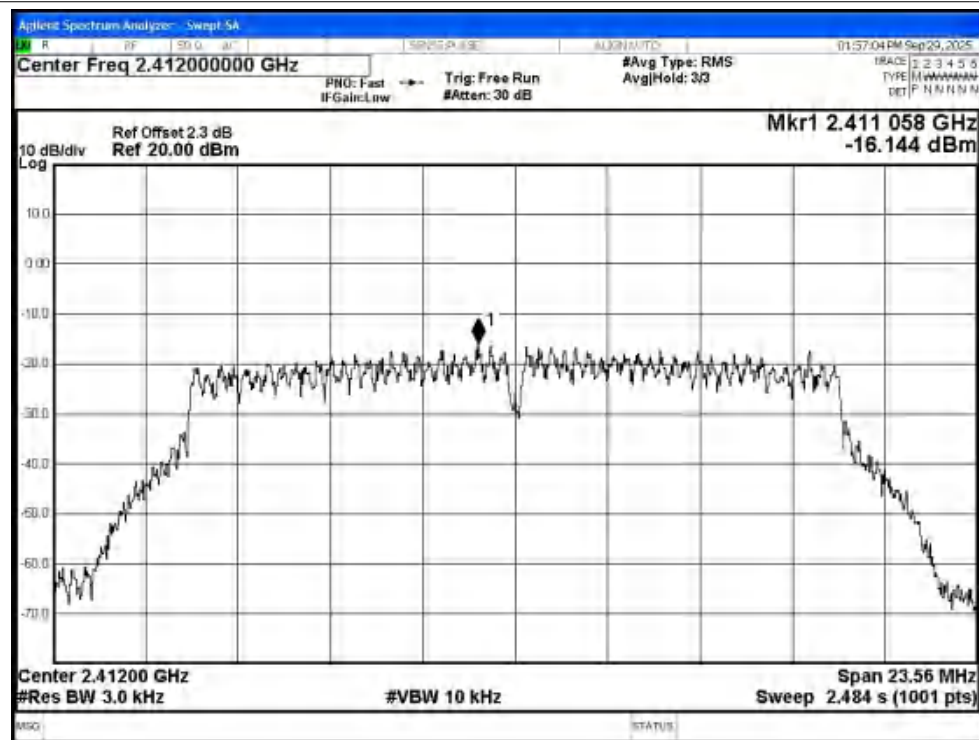
PSD NVNT b 2437MHz Ant2



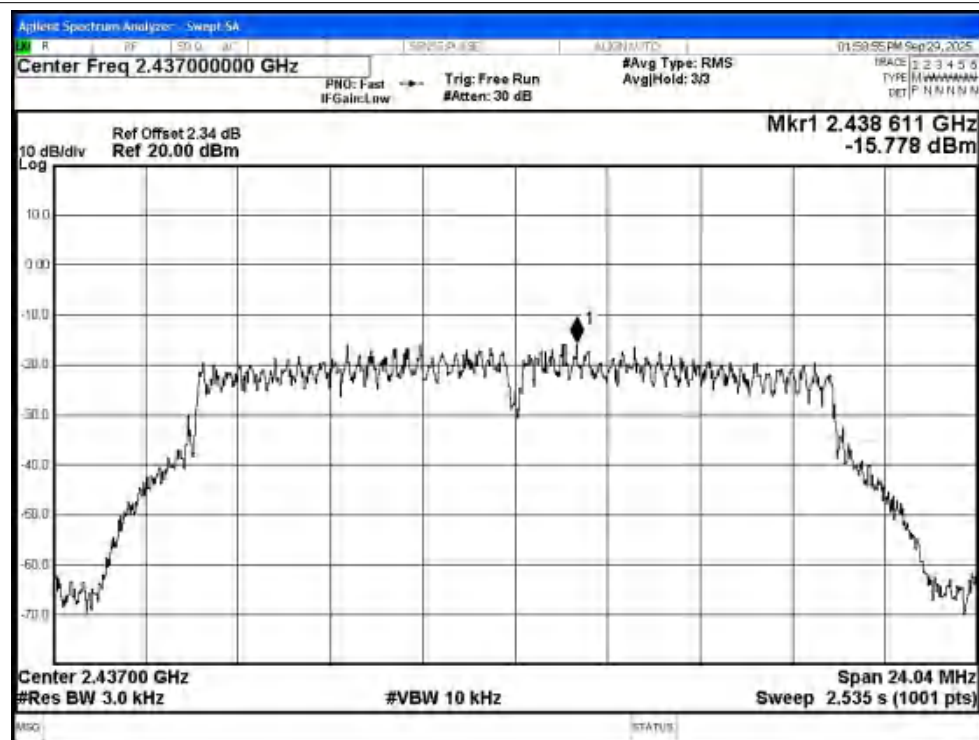
PSD NVNT b 2462MHz Ant2



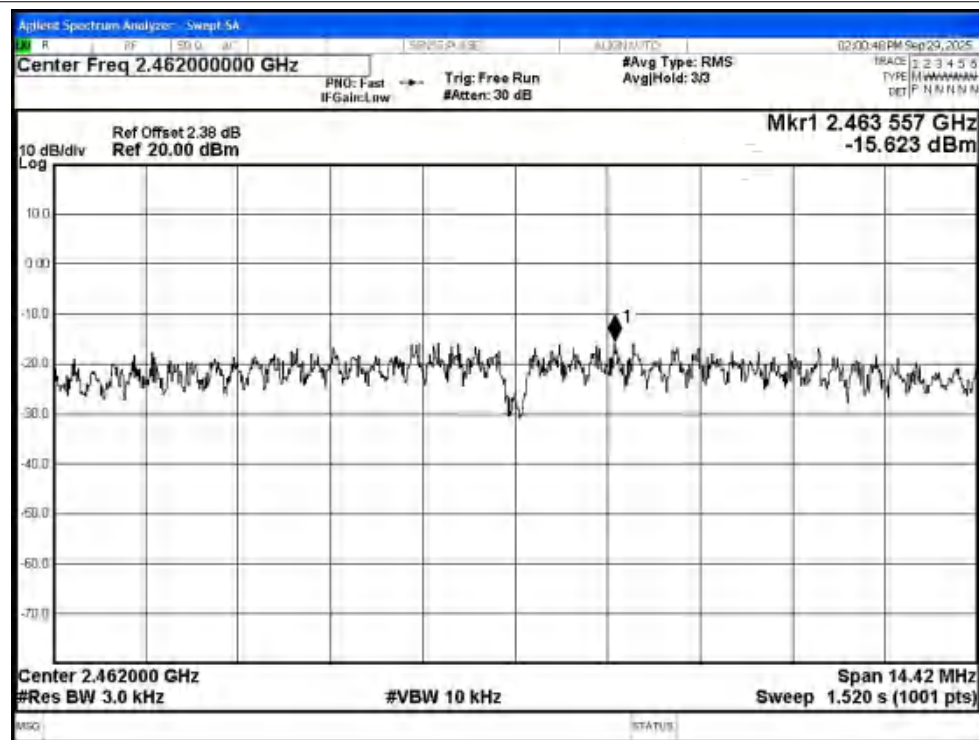
PSD NVNT g 2412MHz Ant2



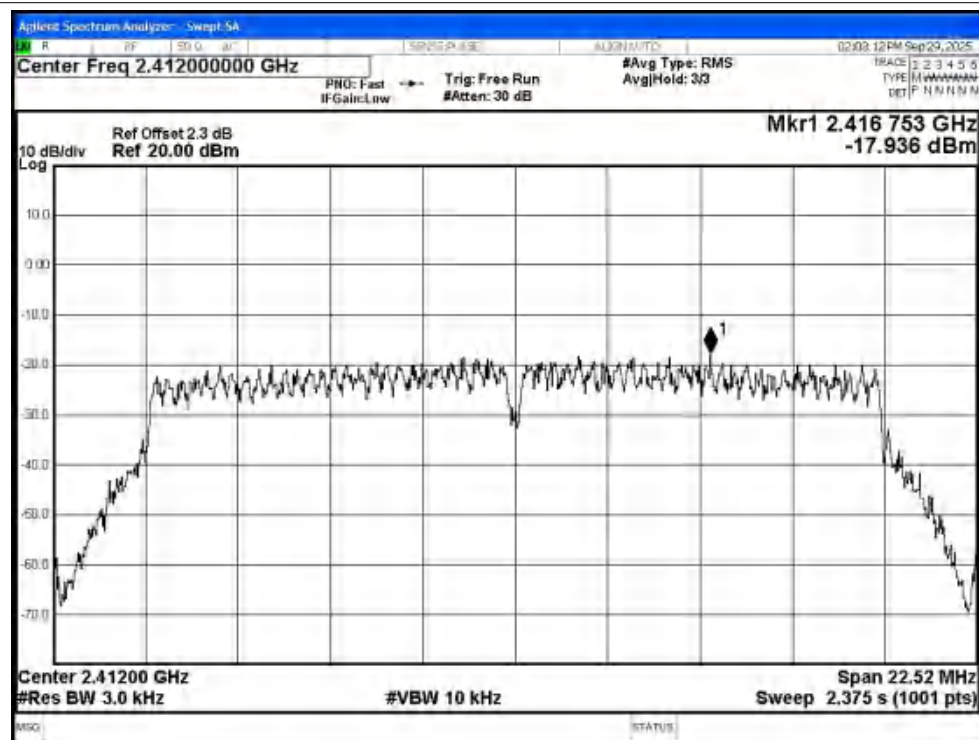
PSD NVNT g 2437MHz Ant2



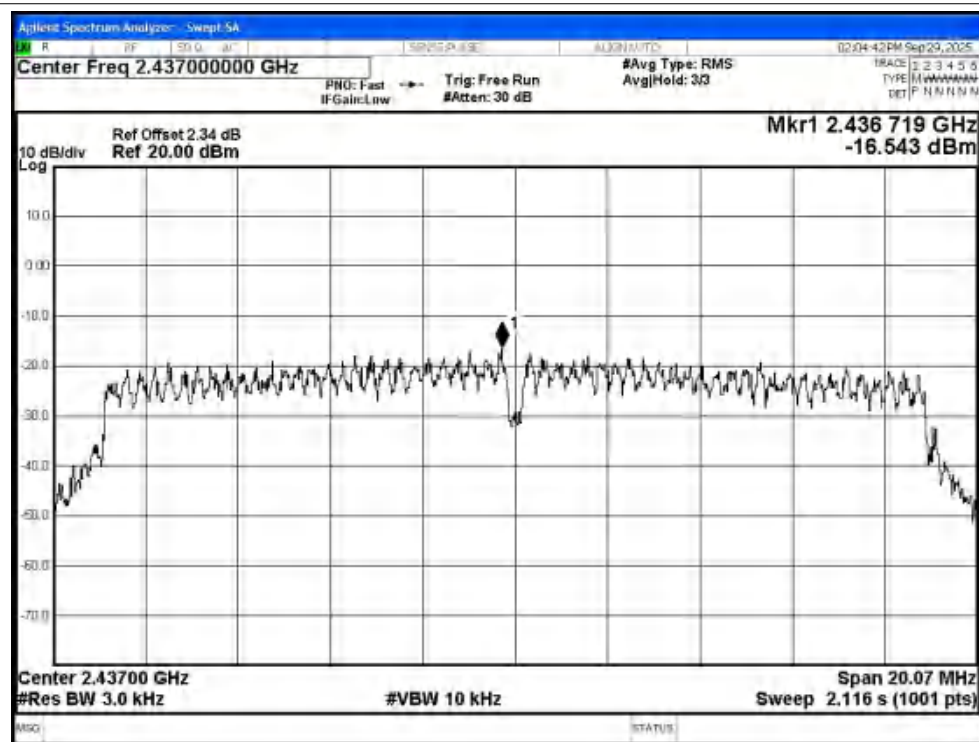
PSD NVNT g 2462MHz Ant2



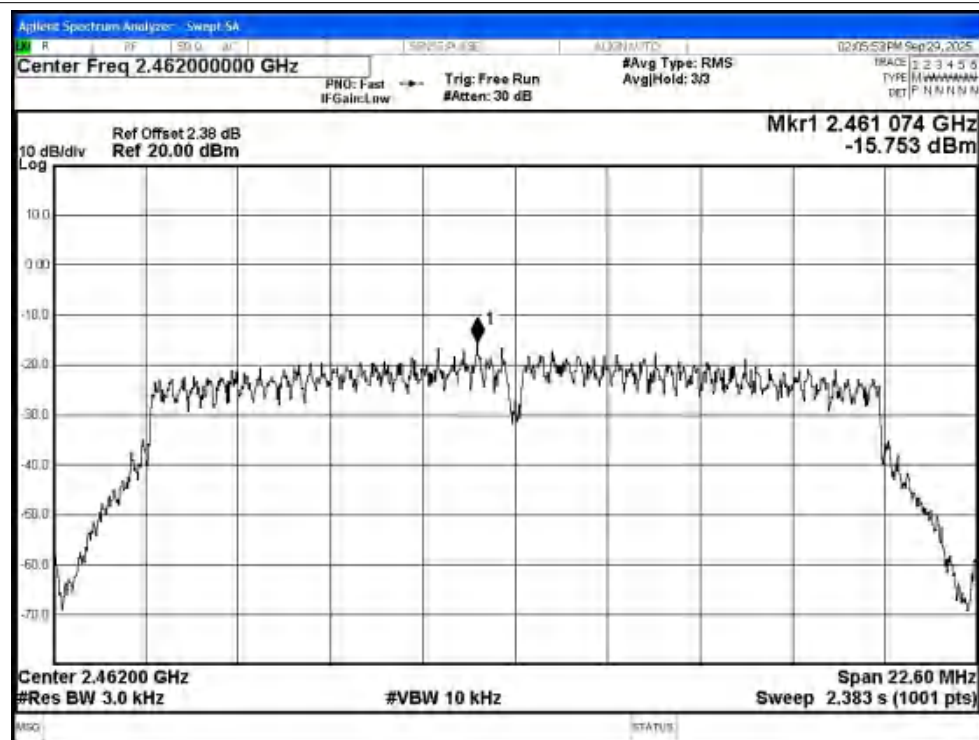
PSD NVNT n20 2412MHz Ant2



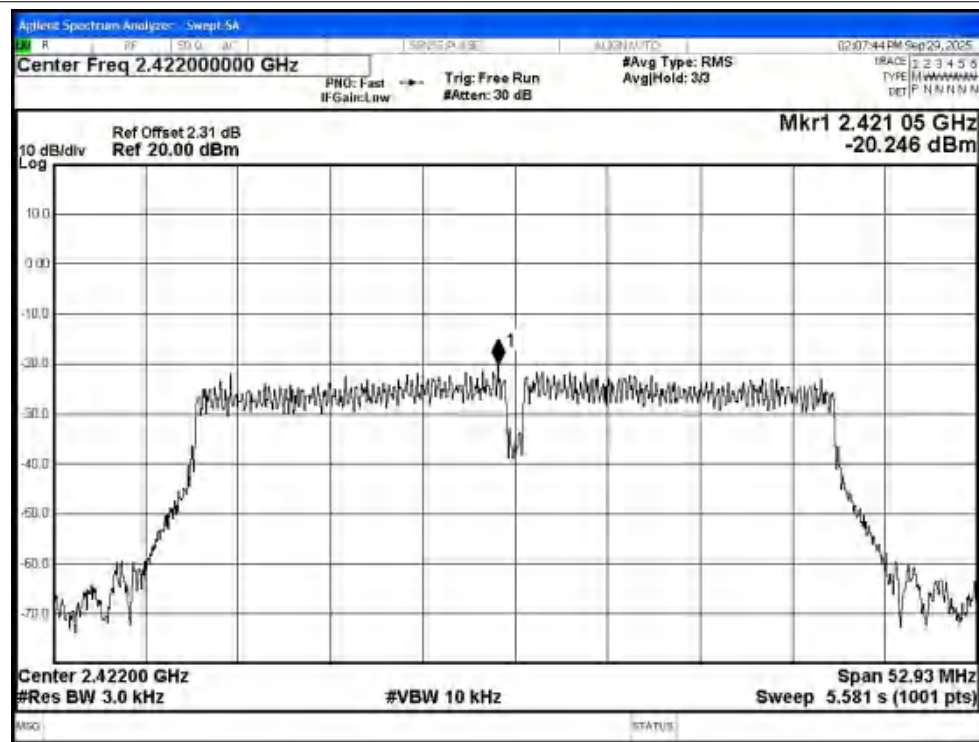
PSD NVNT n20 2437MHz Ant2



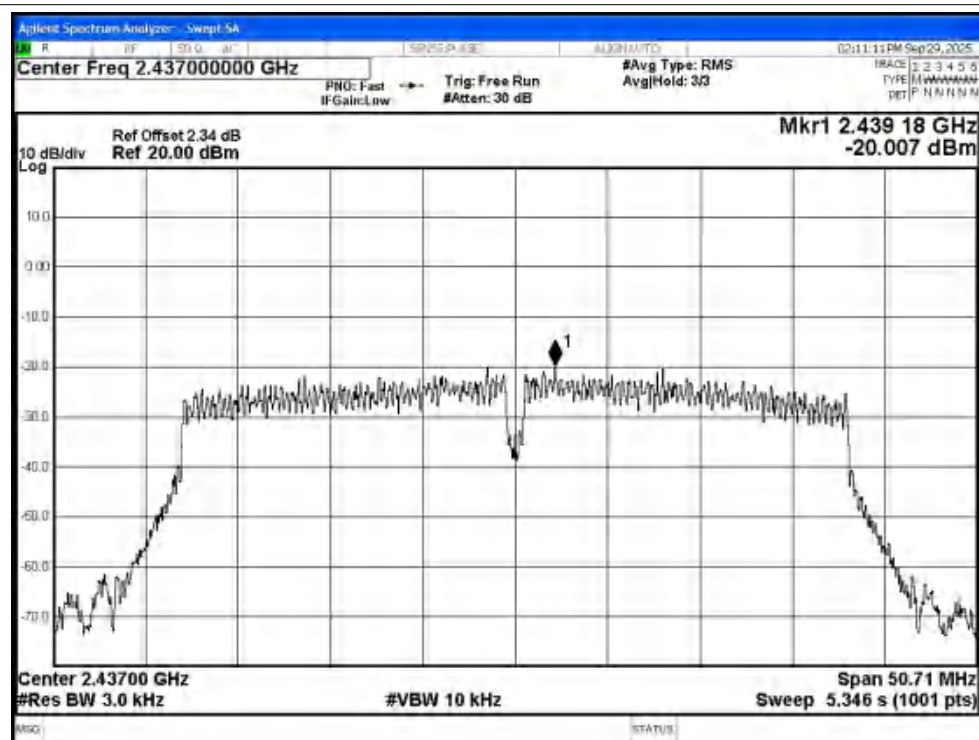
PSD NVNT n20 2462MHz Ant2



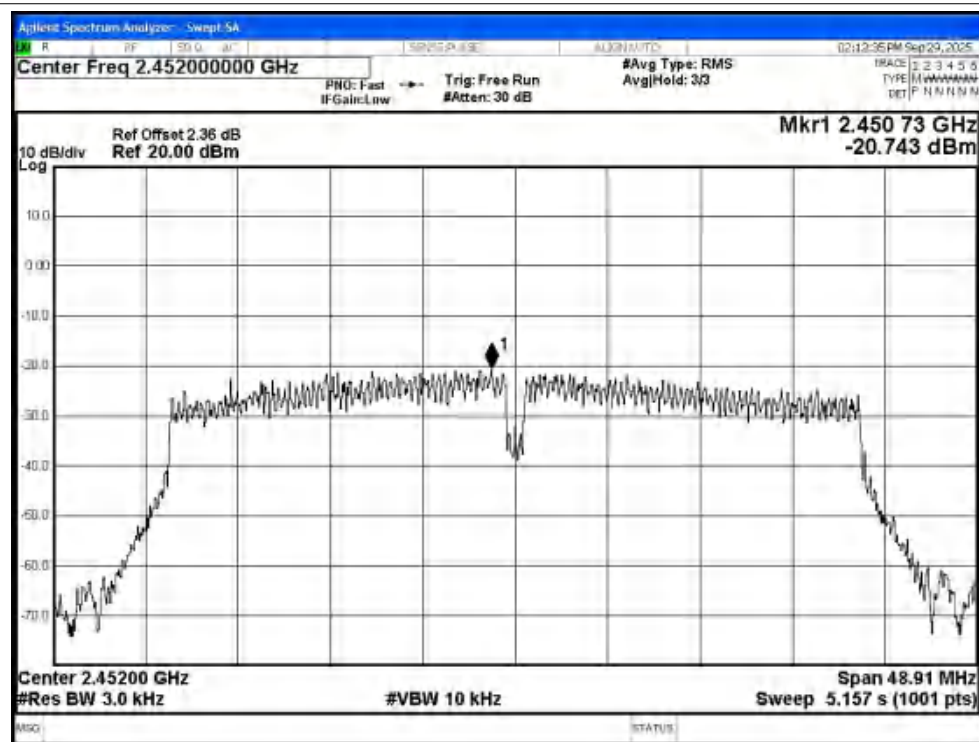
PSD NVNT n40 2422MHz Ant2



PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant2



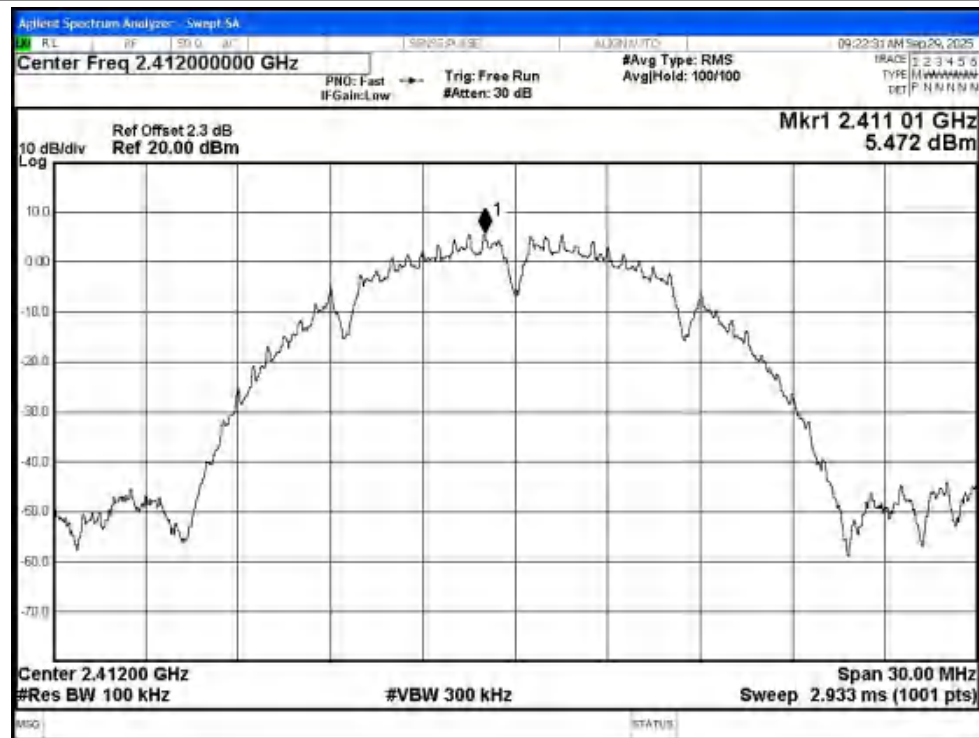
4 Band Edge

RTL8821:

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.08	-20	Pass
NVNT	b	2462	Ant1	-59.99	-20	Pass
NVNT	g	2412	Ant1	-40.52	-20	Pass
NVNT	g	2462	Ant1	-54.49	-20	Pass
NVNT	n20	2412	Ant1	-39.87	-20	Pass
NVNT	n20	2462	Ant1	-50.8	-20	Pass
NVNT	n40	2422	Ant1	-39.92	-20	Pass
NVNT	n40	2452	Ant1	-50.05	-20	Pass

Test Graphs

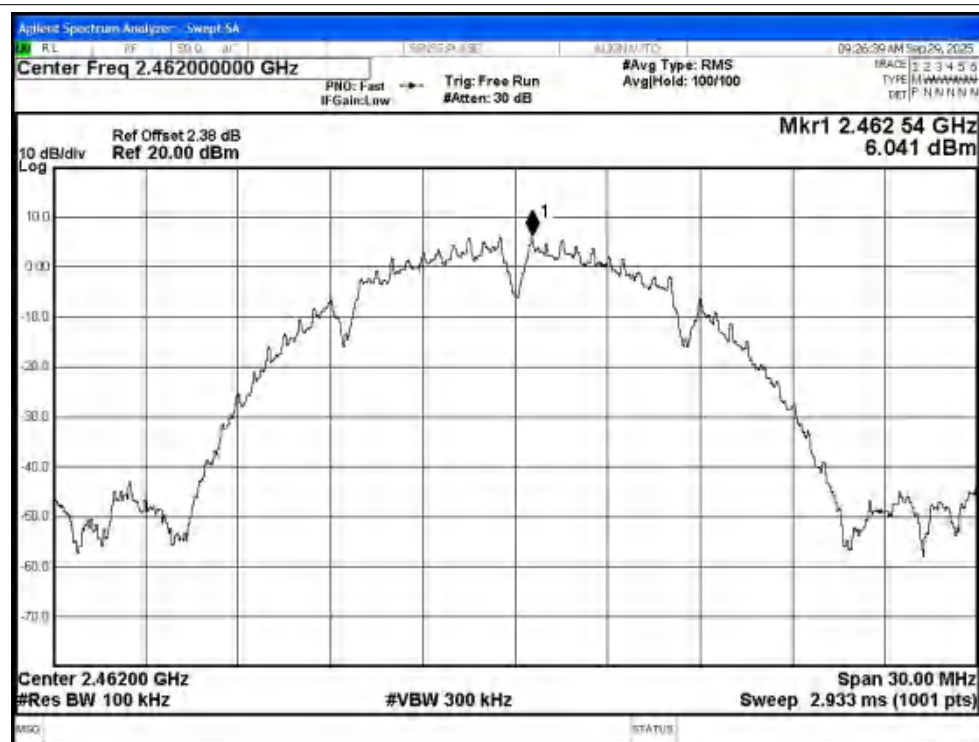
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



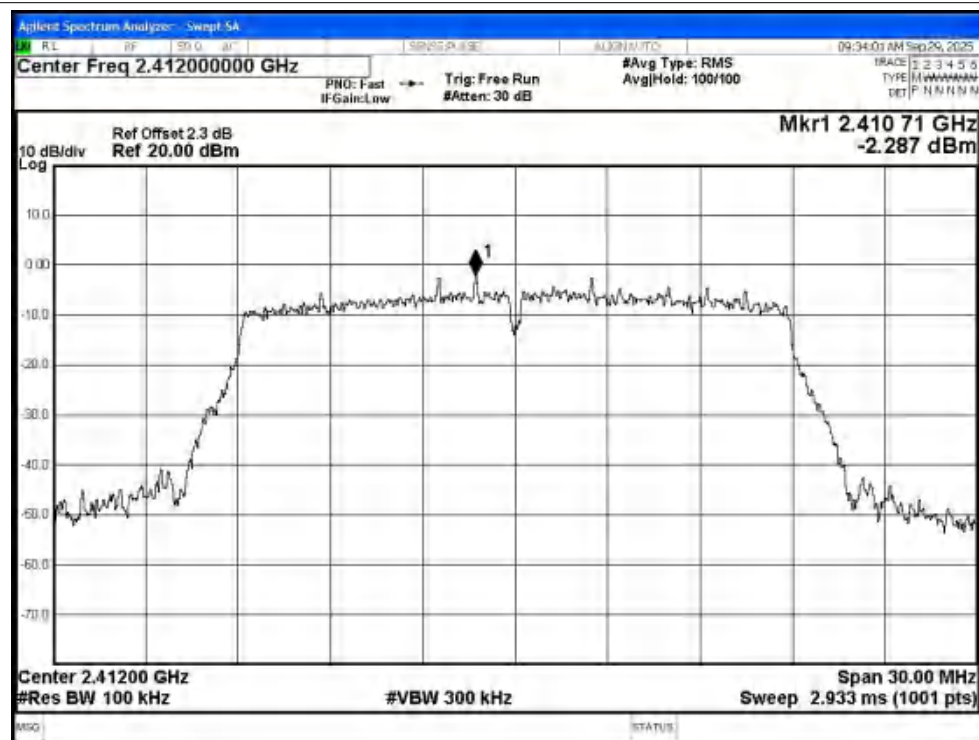
Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



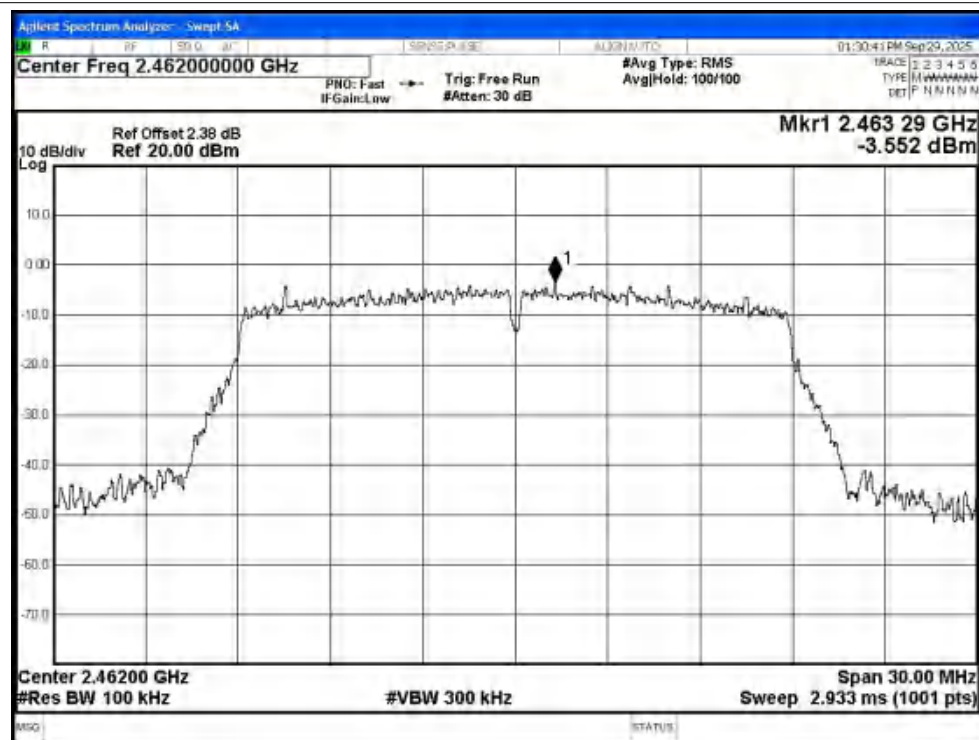
Band Edge NVNT n20 2412MHz Ant1 Ref



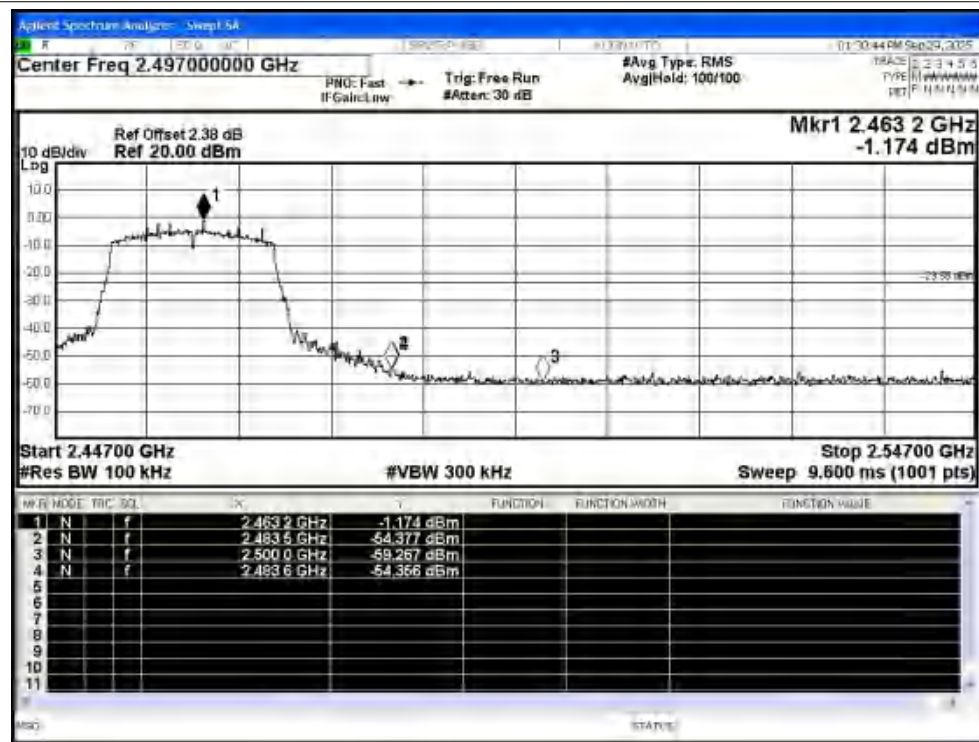
Band Edge NVNT n20 2412MHz Ant1 Emission



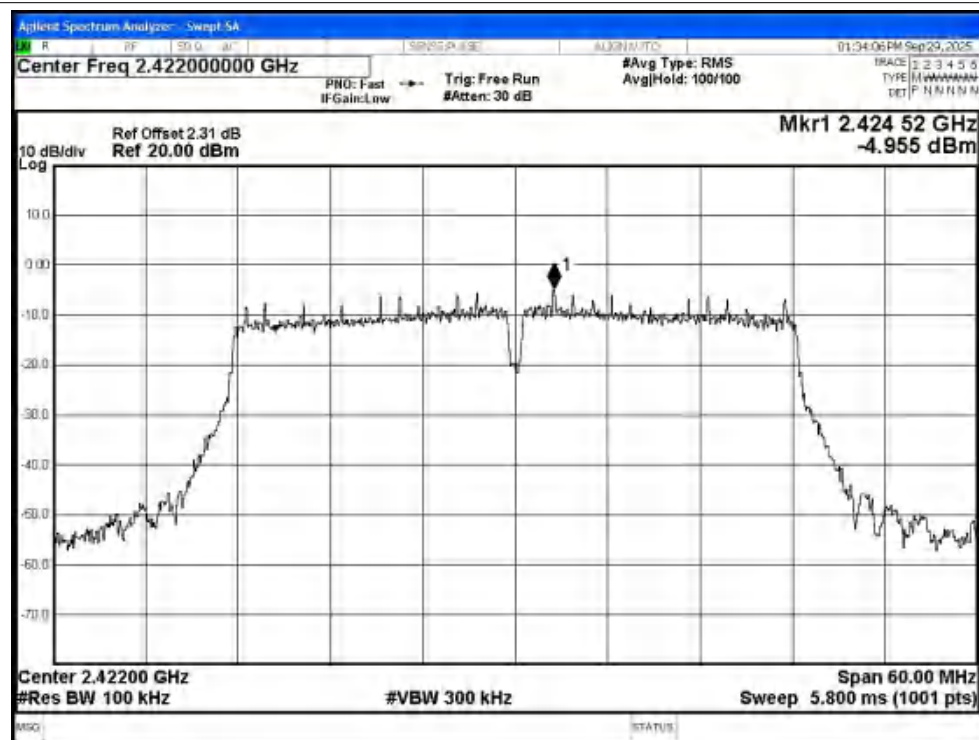
Band Edge NVNT n20 2462MHz Ant1 Ref



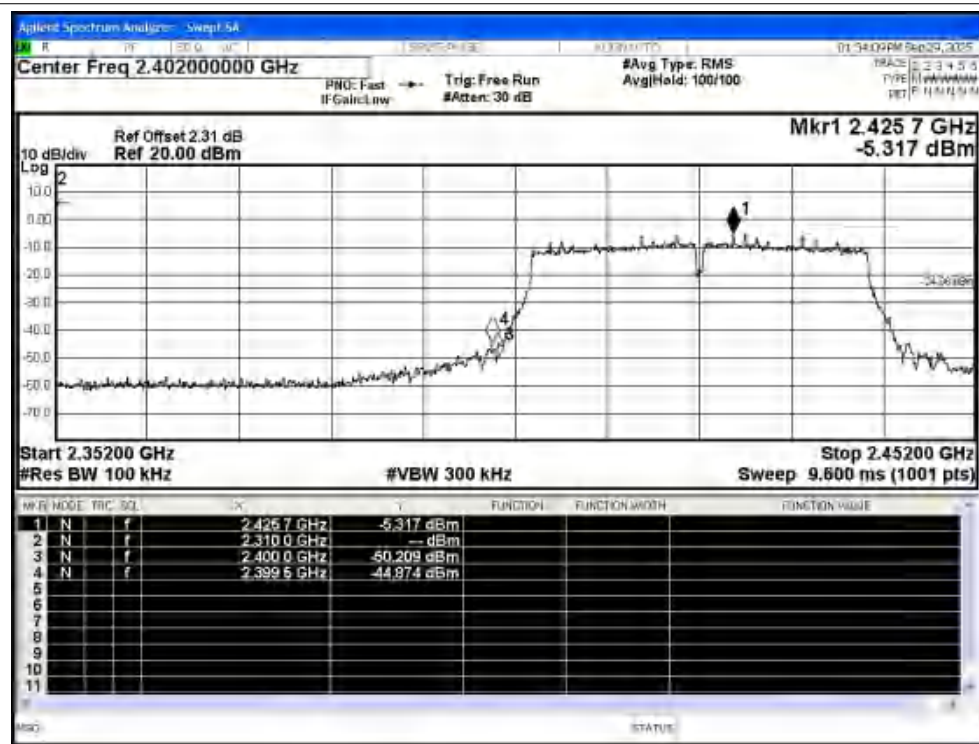
Band Edge NVNT n20 2462MHz Ant1 Emission



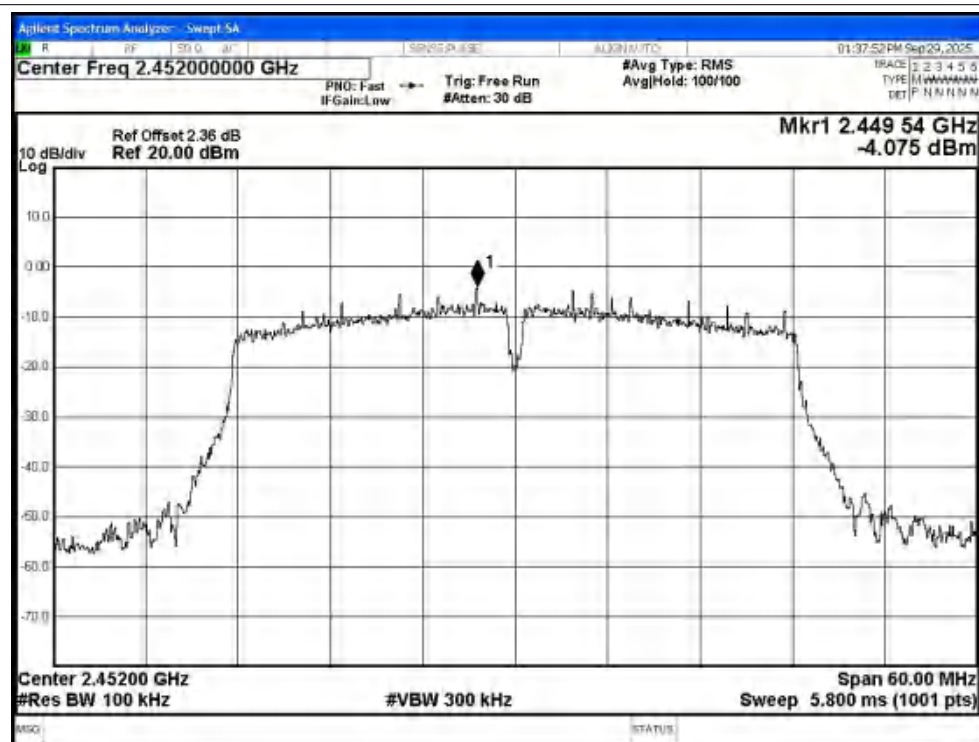
Band Edge NVNT n40 2422MHz Ant1 Ref



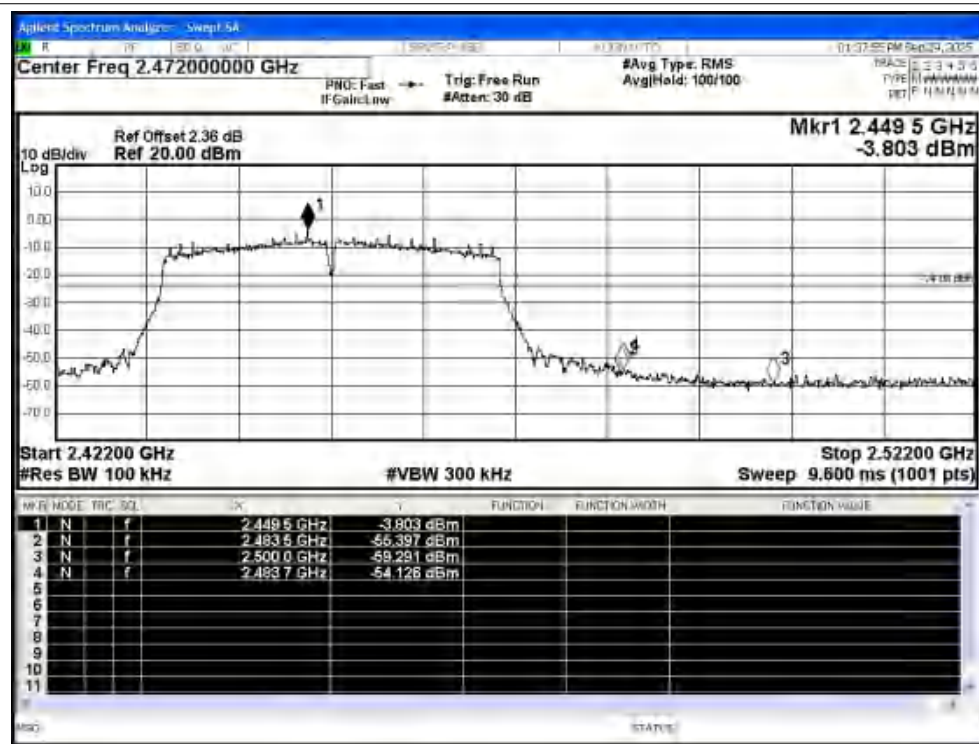
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



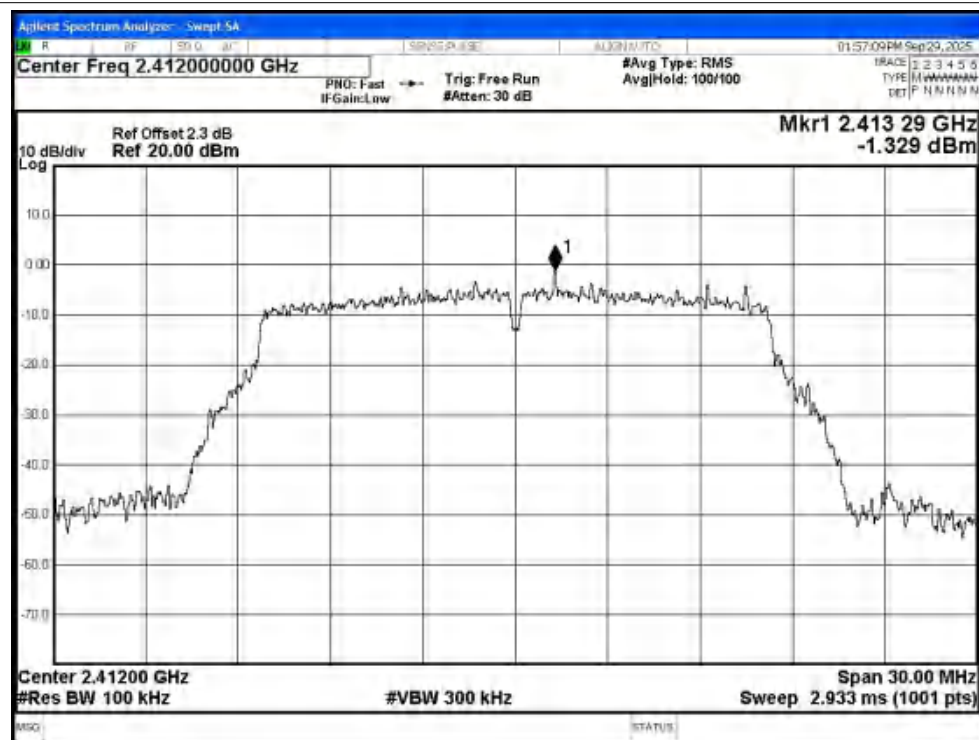
Band Edge NVNT n40 2452MHz Ant1 Emission



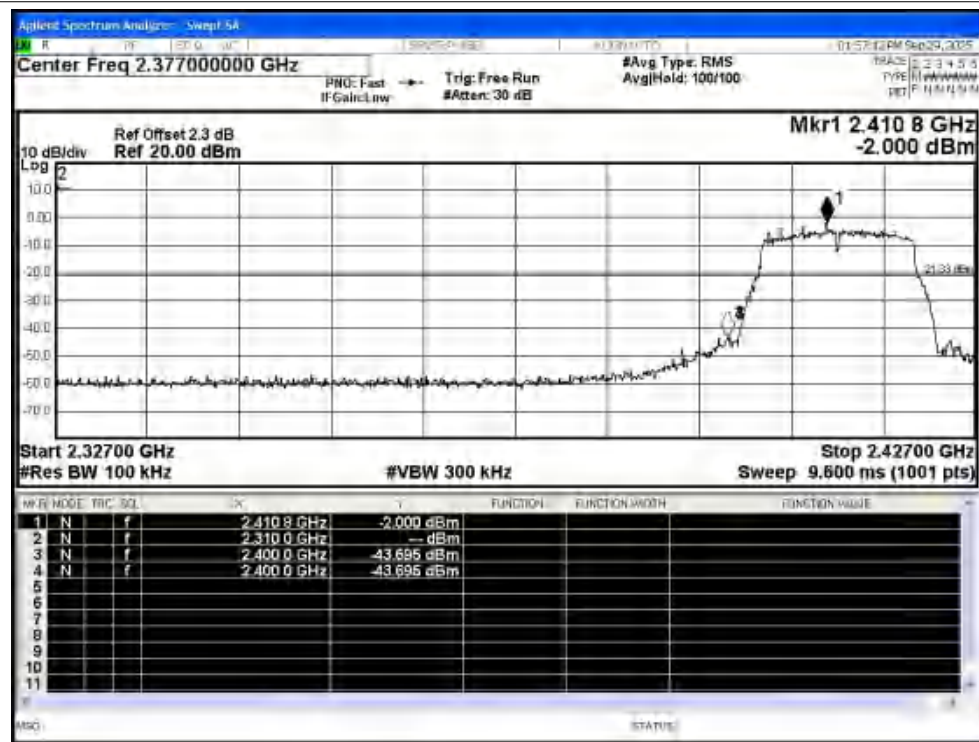
ESP32:

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-51.19	-20	Pass
NVNT	b	2462	Ant2	-59.31	-20	Pass
NVNT	g	2412	Ant2	-42.37	-20	Pass
NVNT	g	2462	Ant2	-54.56	-20	Pass
NVNT	n20	2412	Ant2	-42.12	-20	Pass
NVNT	n20	2462	Ant2	-53.22	-20	Pass
NVNT	n40	2422	Ant2	-39.35	-20	Pass
NVNT	n40	2452	Ant2	-49.73	-20	Pass

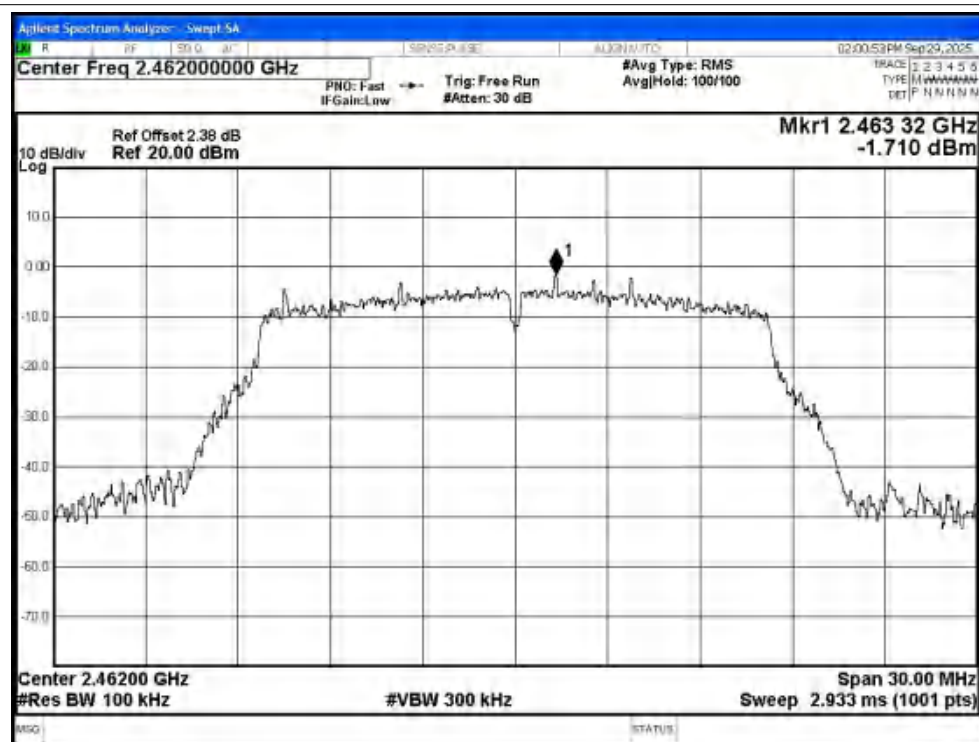
Band Edge NVNT g 2412MHz Ant2 Ref



Band Edge NVNT g 2412MHz Ant2 Emission



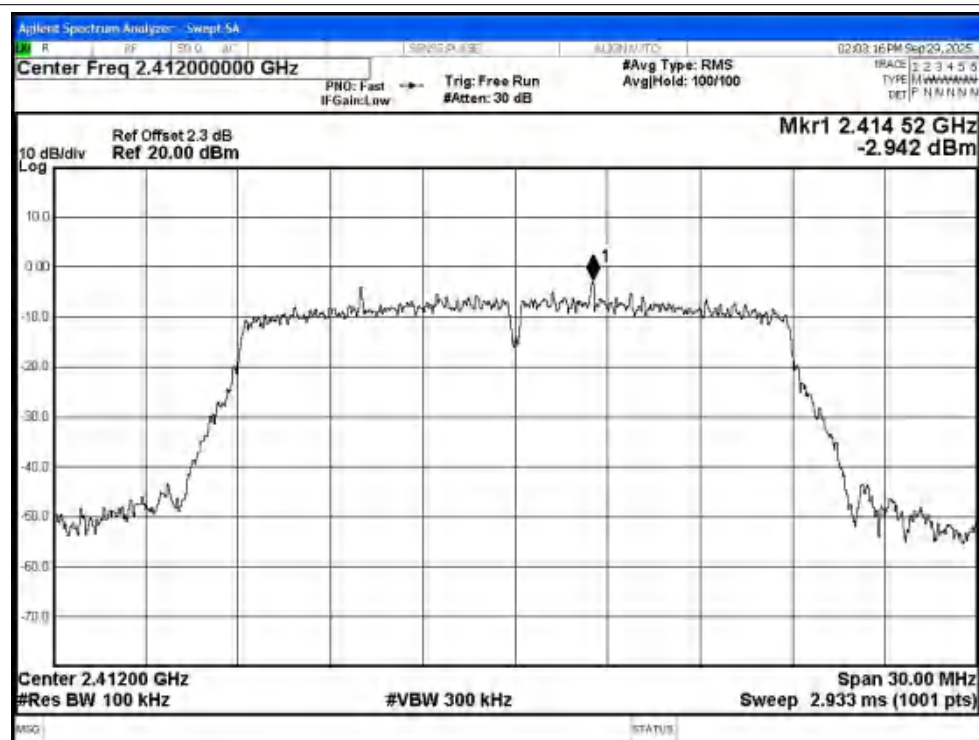
Band Edge NVNT g 2462MHz Ant2 Ref



Band Edge NVNT g 2462MHz Ant2 Emission



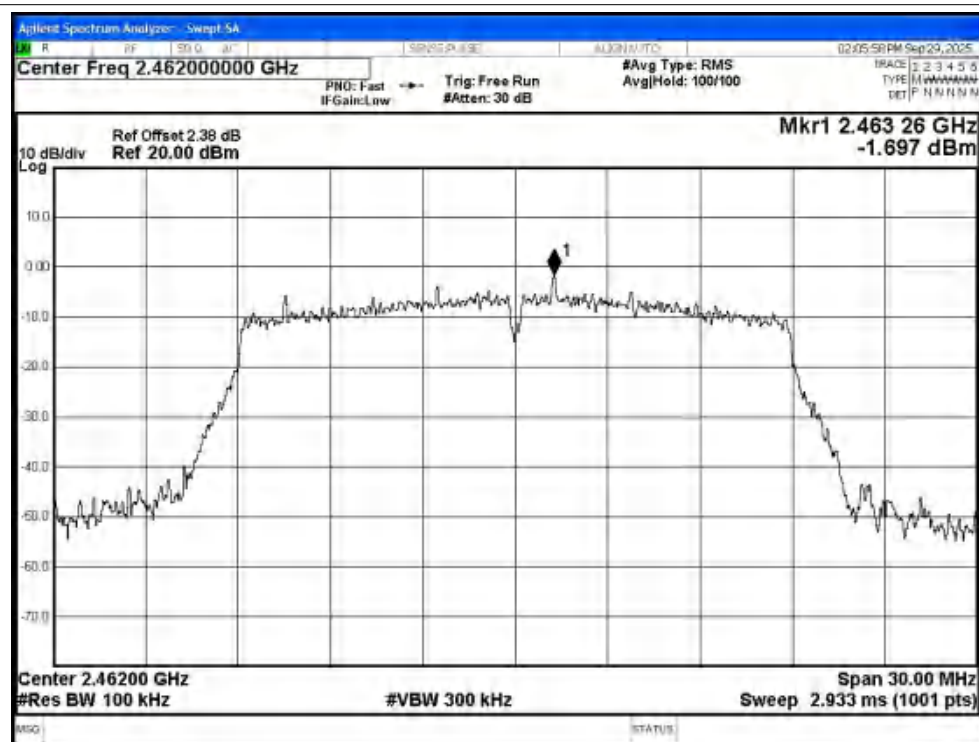
Band Edge NVNT n20 2412MHz Ant2 Ref



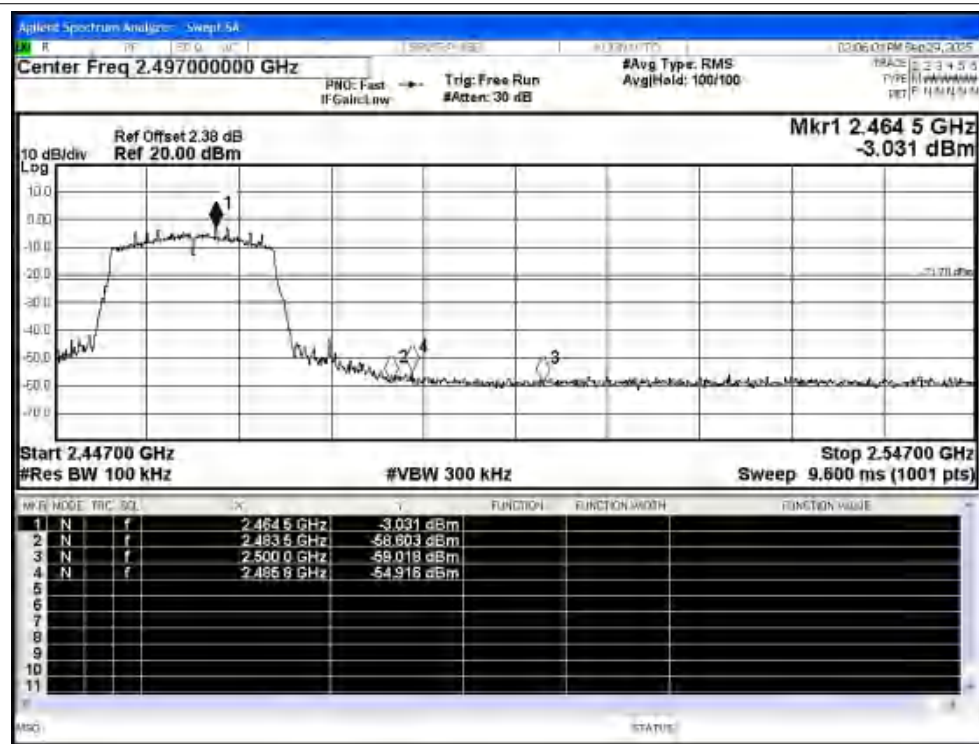
Band Edge NVNT n20 2412MHz Ant2 Emission



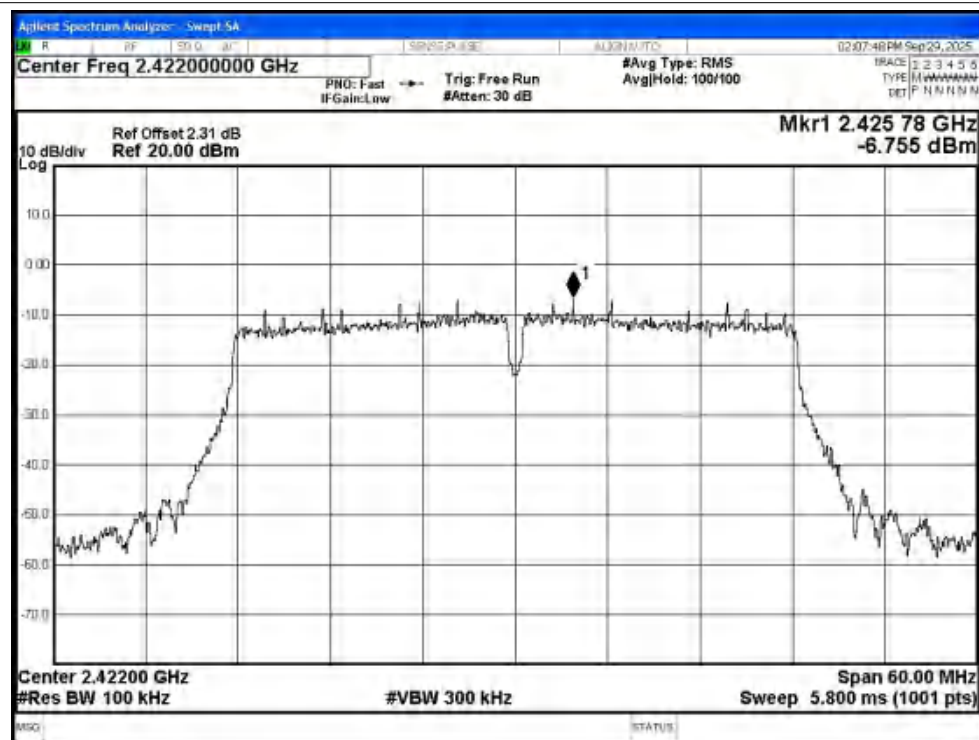
Band Edge NVNT n20 2462MHz Ant2 Ref



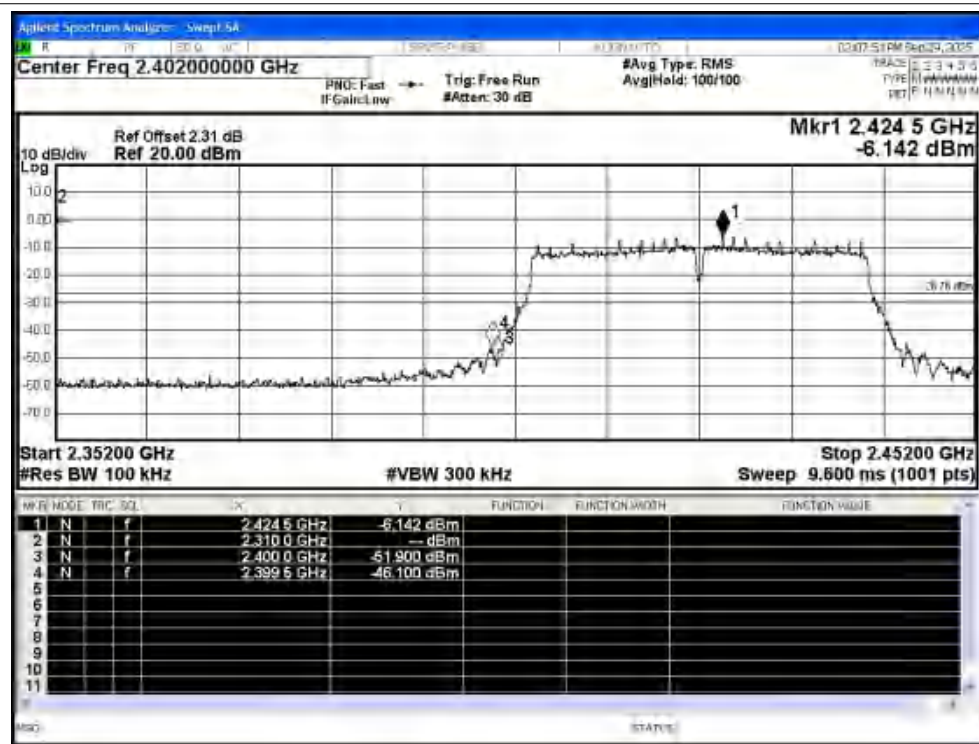
Band Edge NVNT n20 2462MHz Ant2 Emission



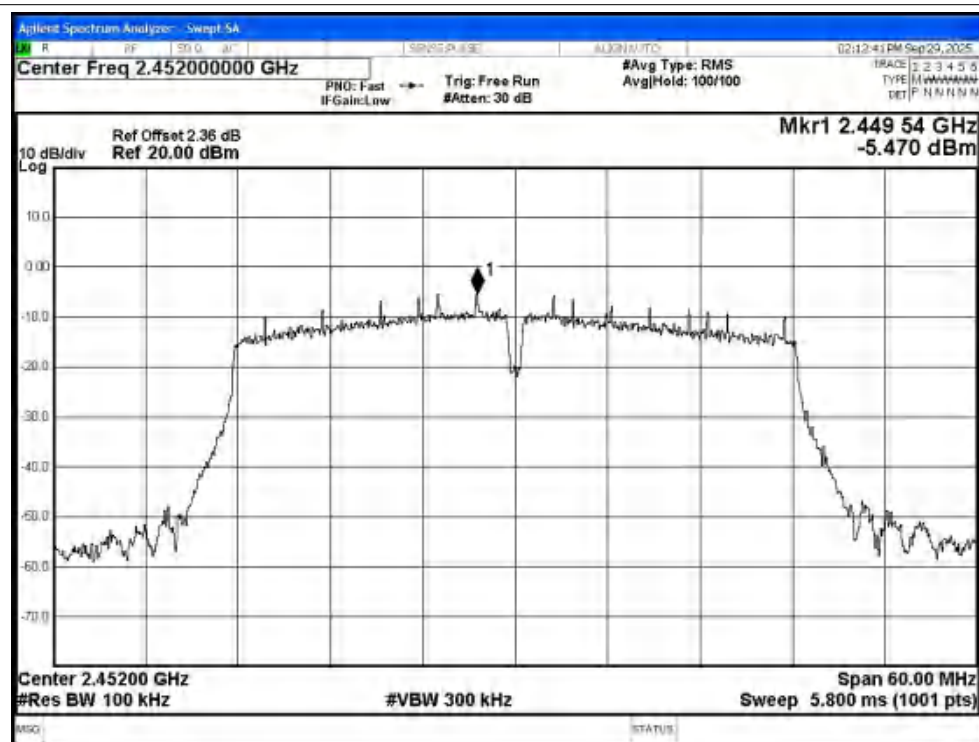
Band Edge NVNT n40 2422MHz Ant2 Ref



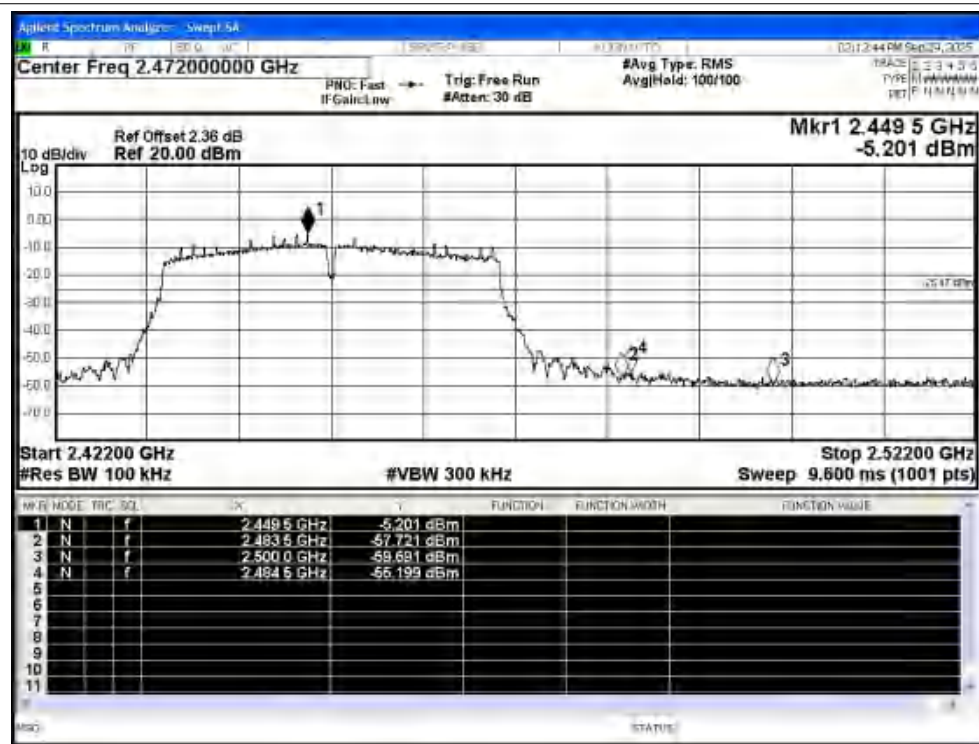
Band Edge NVNT n40 2422MHz Ant2 Emission



Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission

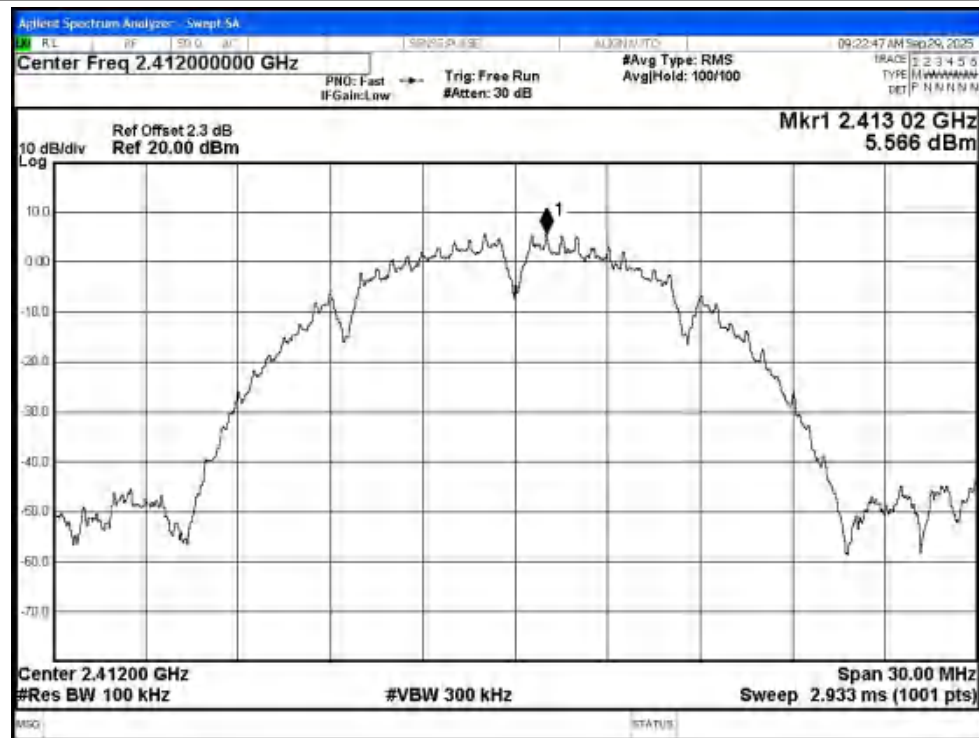


5 Conducted RF Spurious Emission

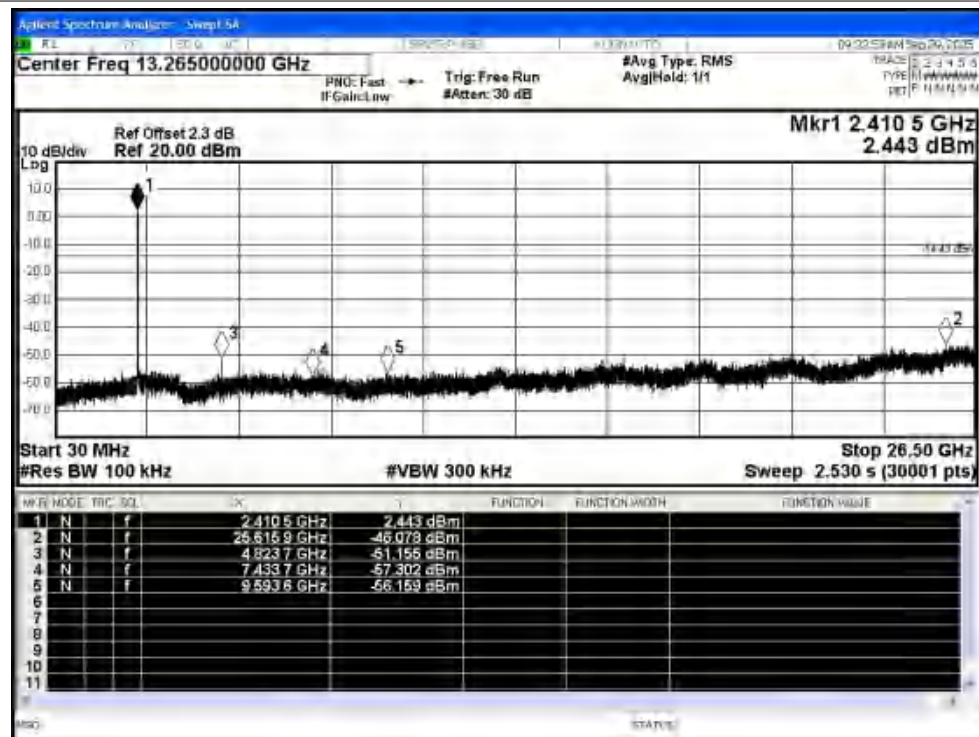
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.64	-20	Pass
NVNT	b	2437	Ant1	-52.73	-20	Pass
NVNT	b	2462	Ant1	-51.84	-20	Pass
NVNT	g	2412	Ant1	-44.27	-20	Pass
NVNT	g	2437	Ant1	-45.49	-20	Pass
NVNT	g	2462	Ant1	-43.51	-20	Pass
NVNT	n20	2412	Ant1	-44.2	-20	Pass
NVNT	n20	2437	Ant1	-42.4	-20	Pass
NVNT	n20	2462	Ant1	-44.6	-20	Pass
NVNT	n40	2422	Ant1	-40.67	-20	Pass
NVNT	n40	2437	Ant1	-41.12	-20	Pass
NVNT	n40	2452	Ant1	-41.1	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



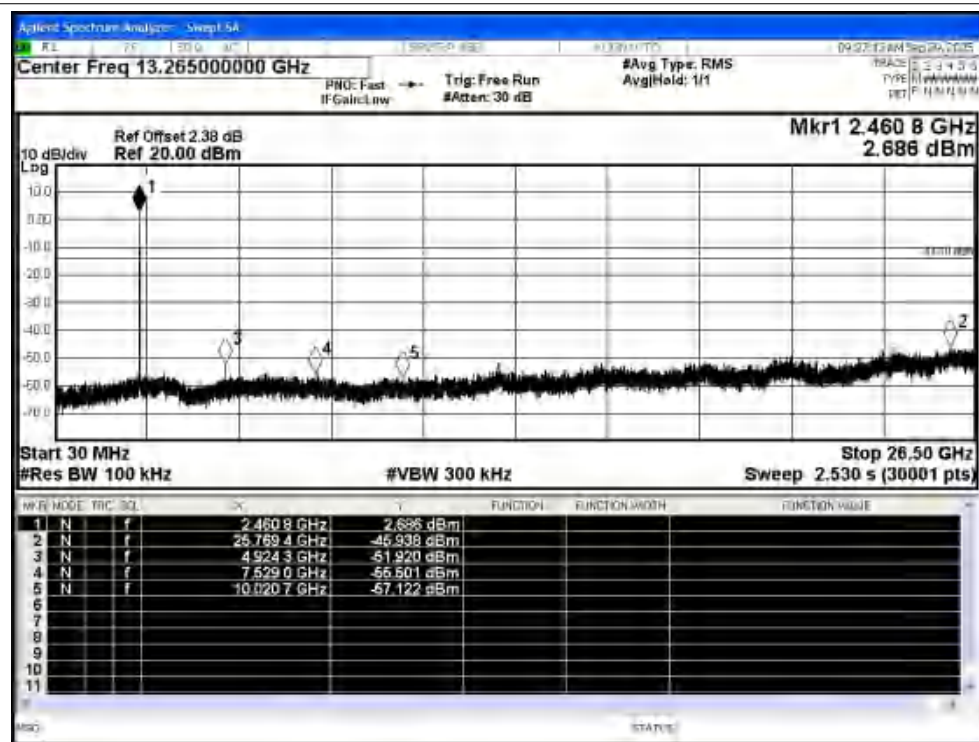
Tx. Spurious NVNT b 2412MHz Ant1 Emission



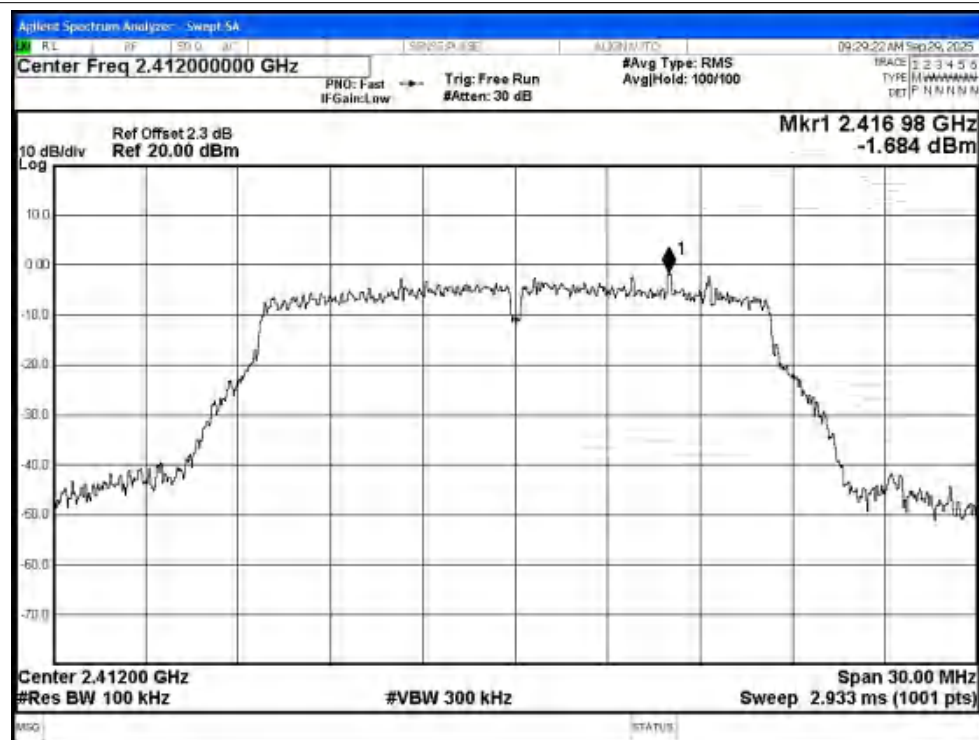
Tx. Spurious NVNT b 2462MHz Ant1 Ref



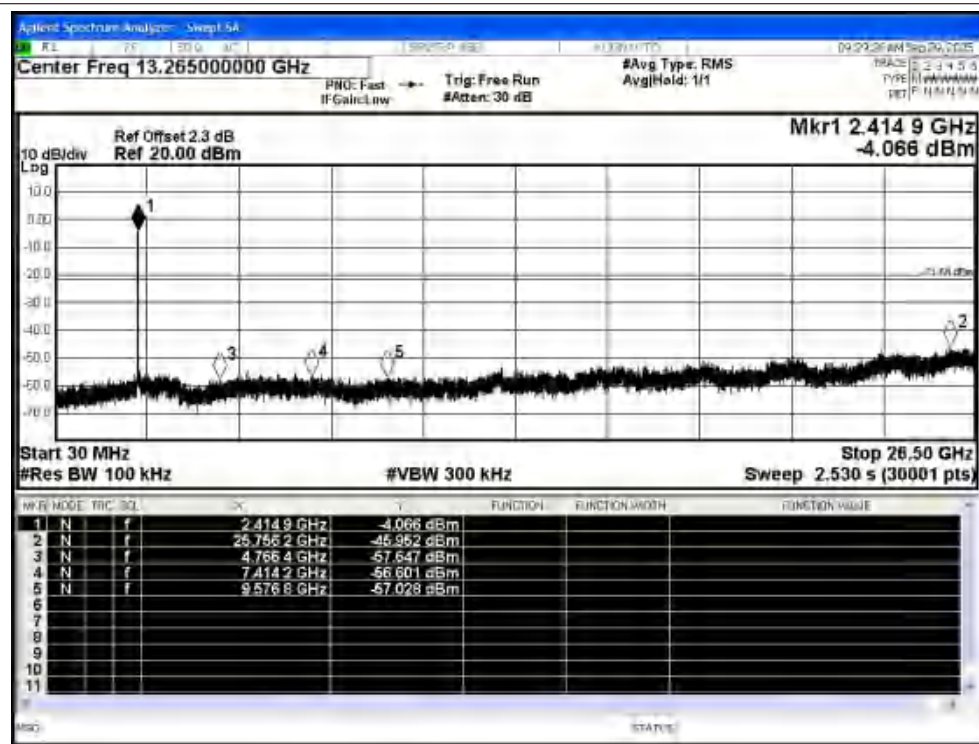
Tx. Spurious NVNT b 2462MHz Ant1 Emission



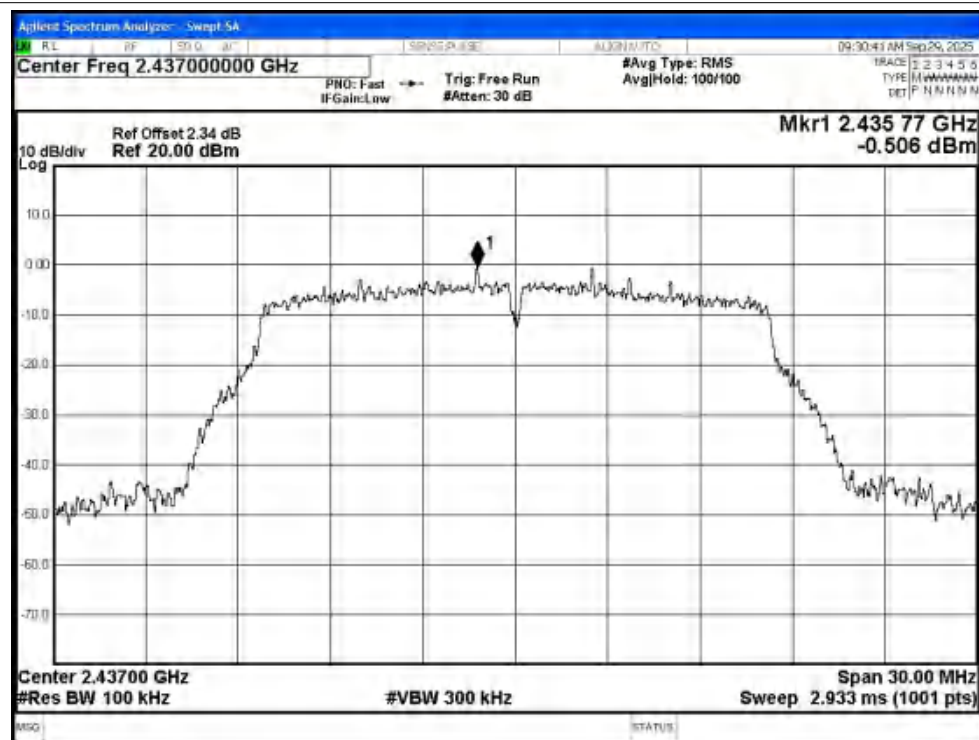
Tx. Spurious NVNT g 2412MHz Ant1 Ref



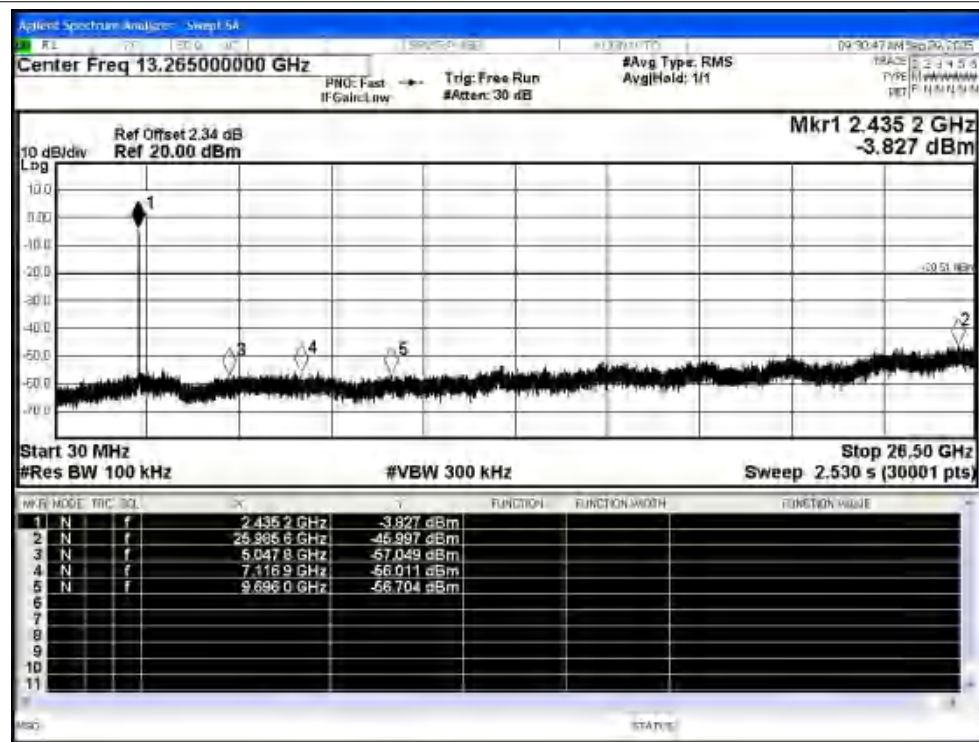
Tx. Spurious NVNT g 2412MHz Ant1 Emission



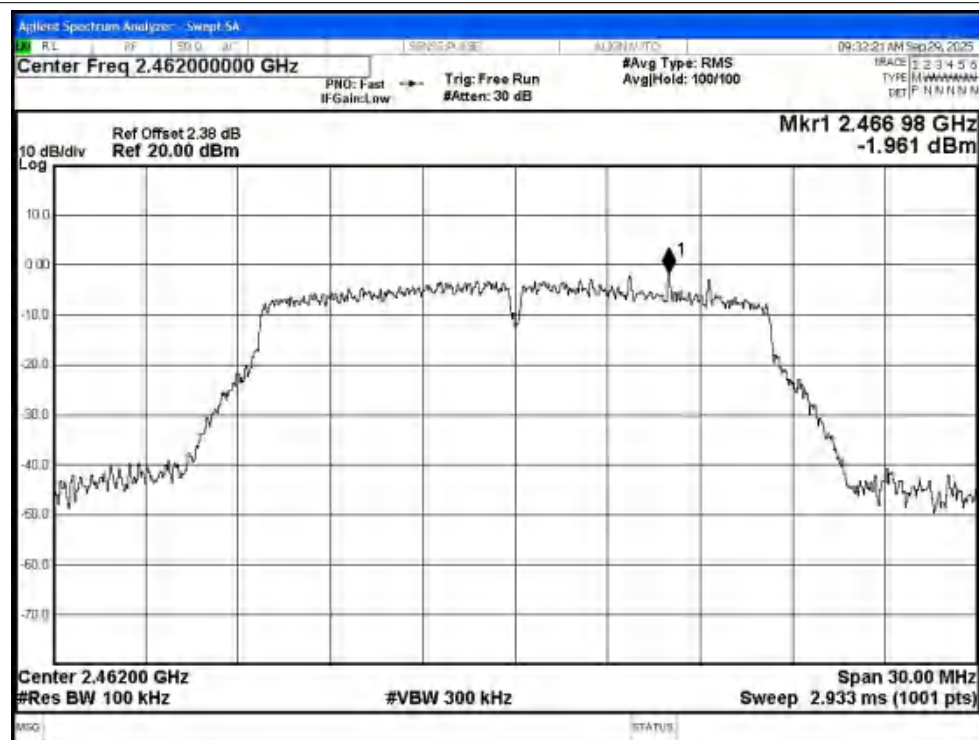
Tx. Spurious NVNT g 2437MHz Ant1 Ref



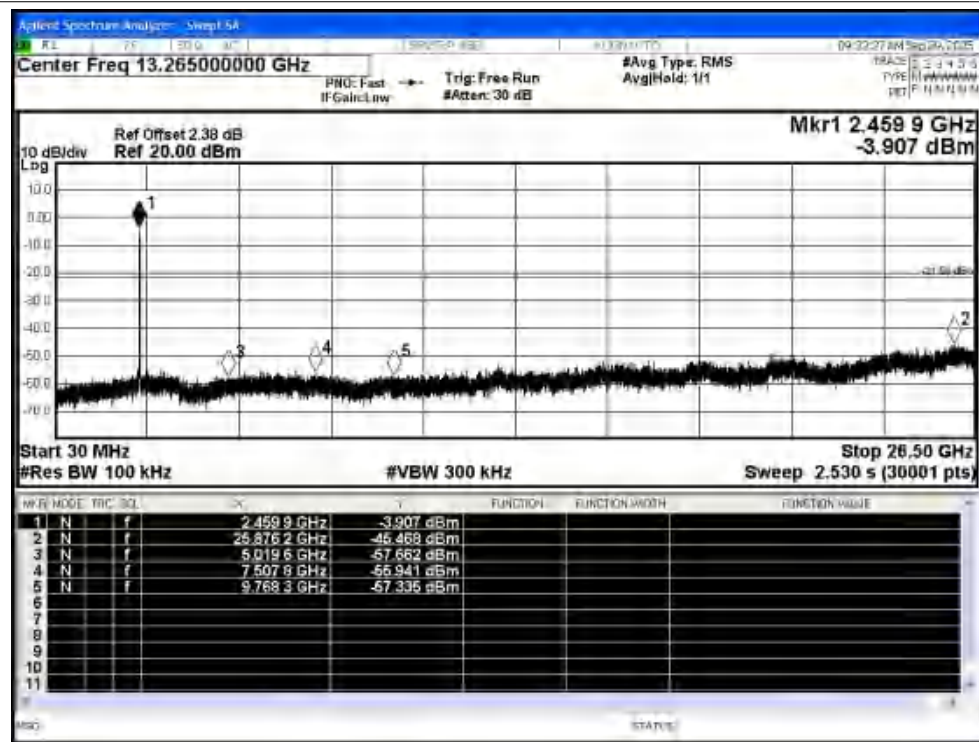
Tx. Spurious NVNT g 2437MHz Ant1 Emission



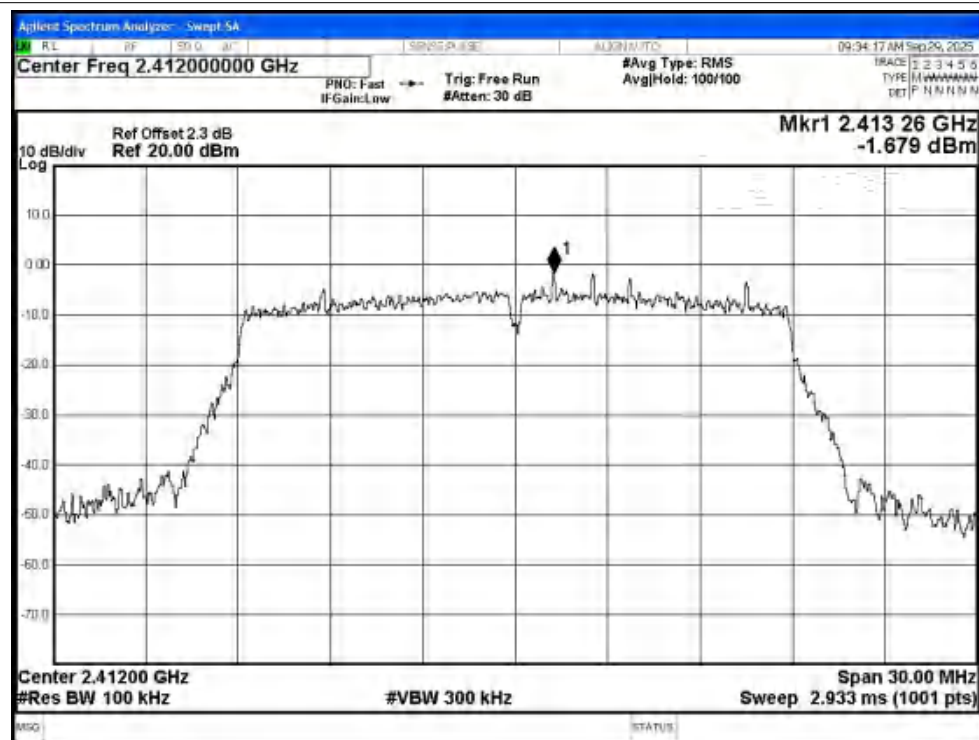
Tx. Spurious NVNT g 2462MHz Ant1 Ref



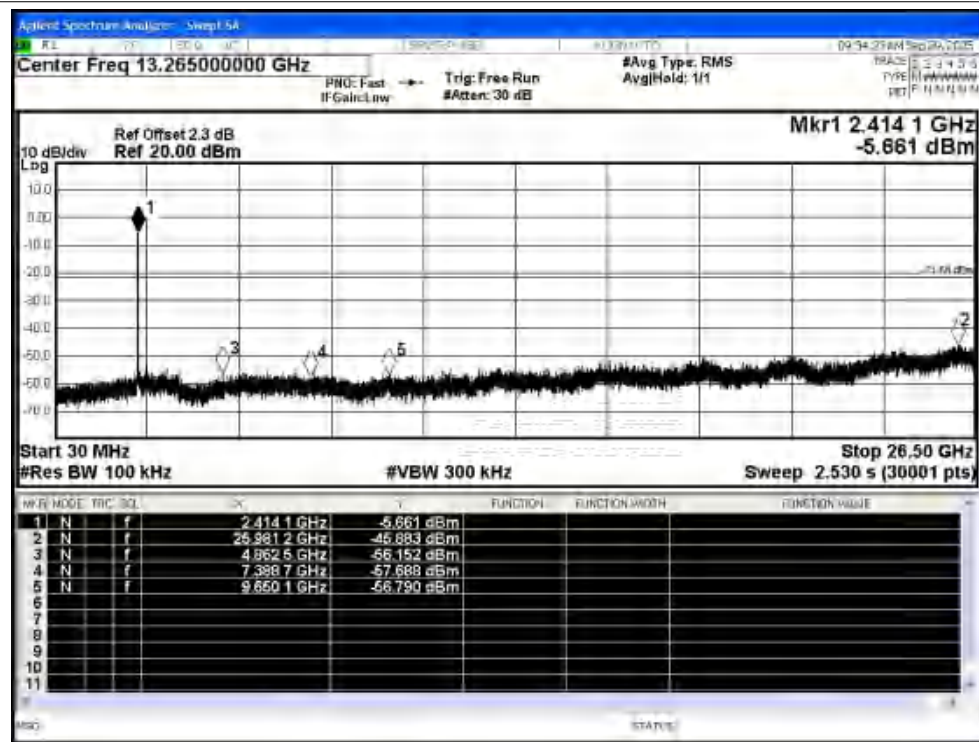
Tx. Spurious NVNT g 2462MHz Ant1 Emission



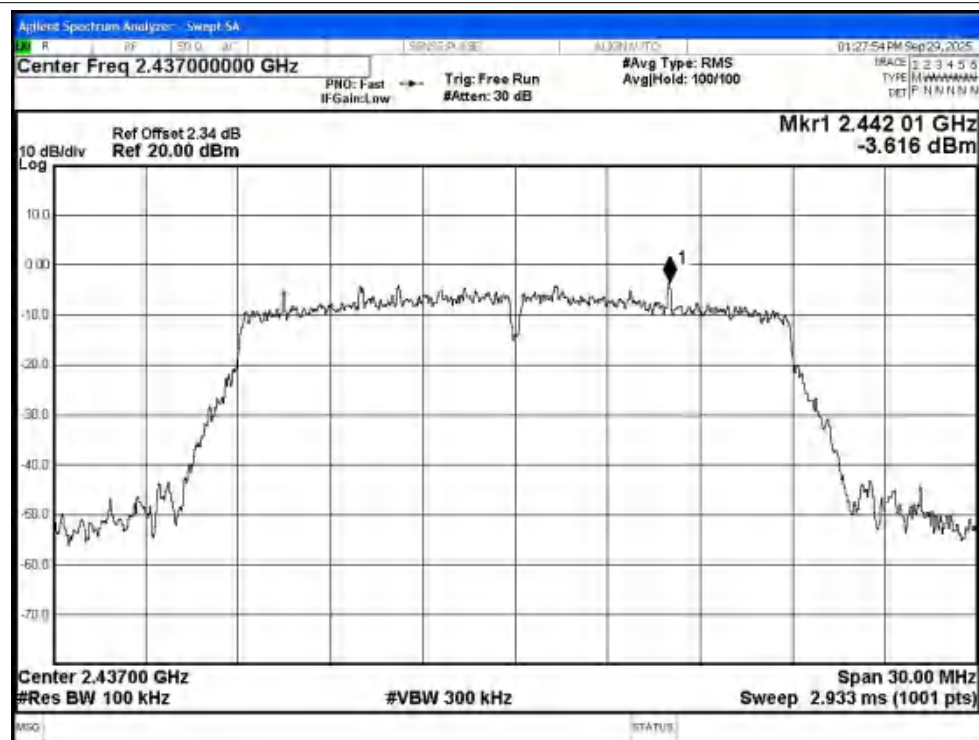
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



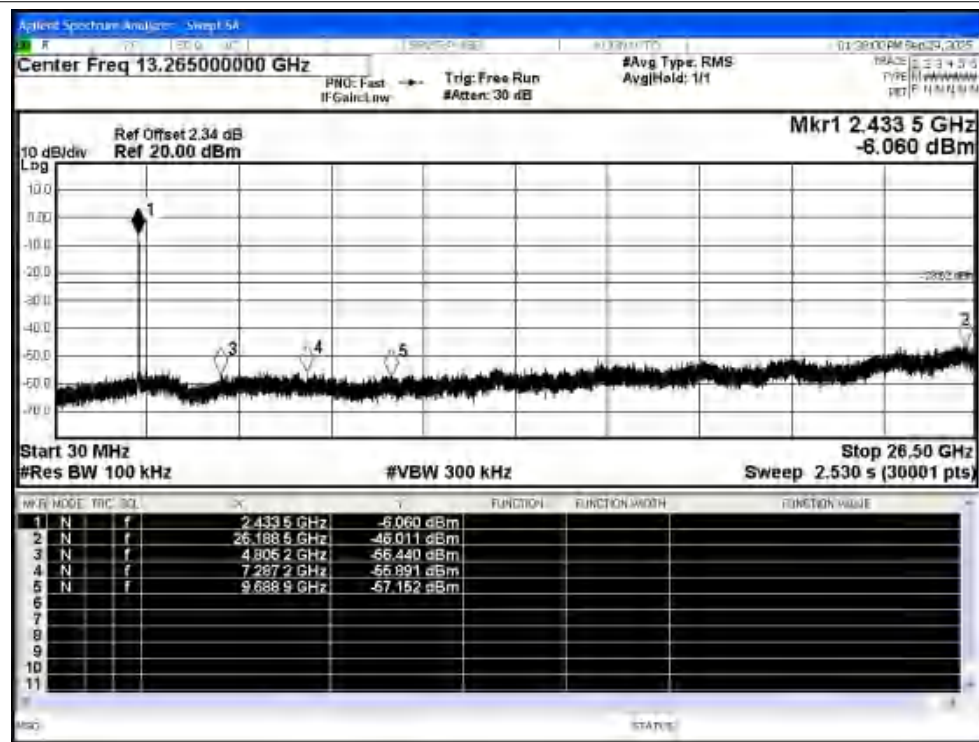
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



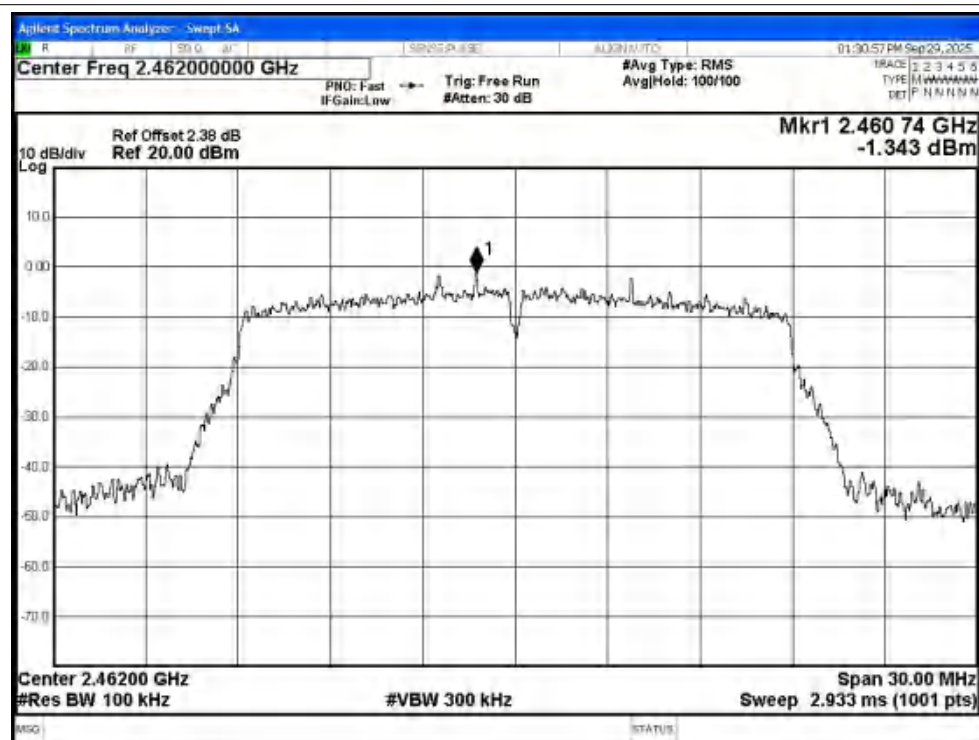
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



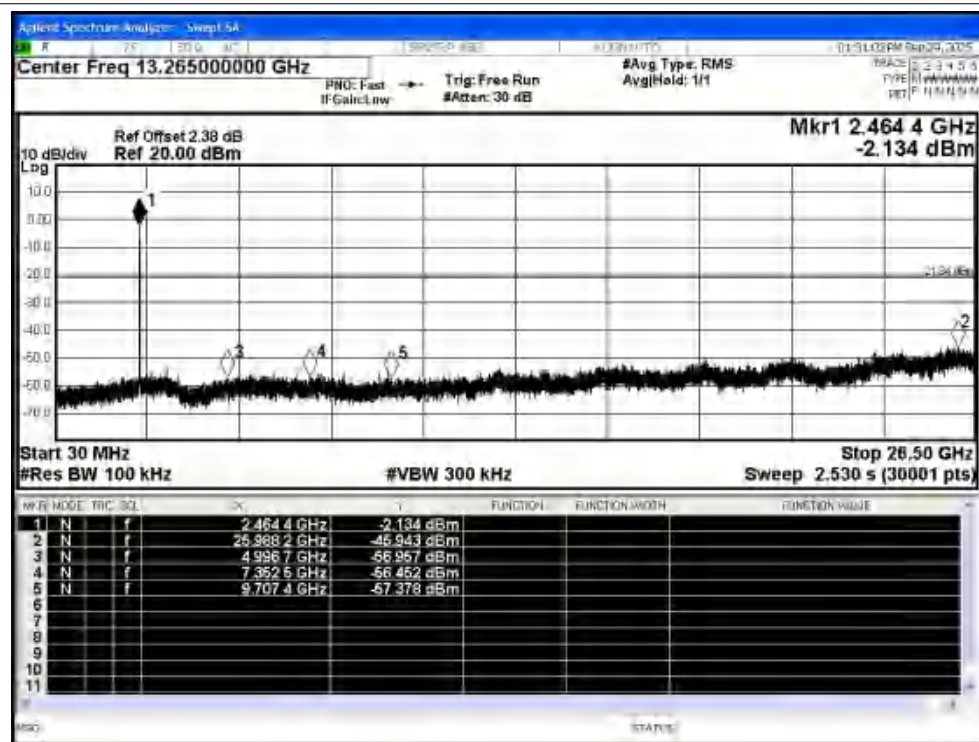
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



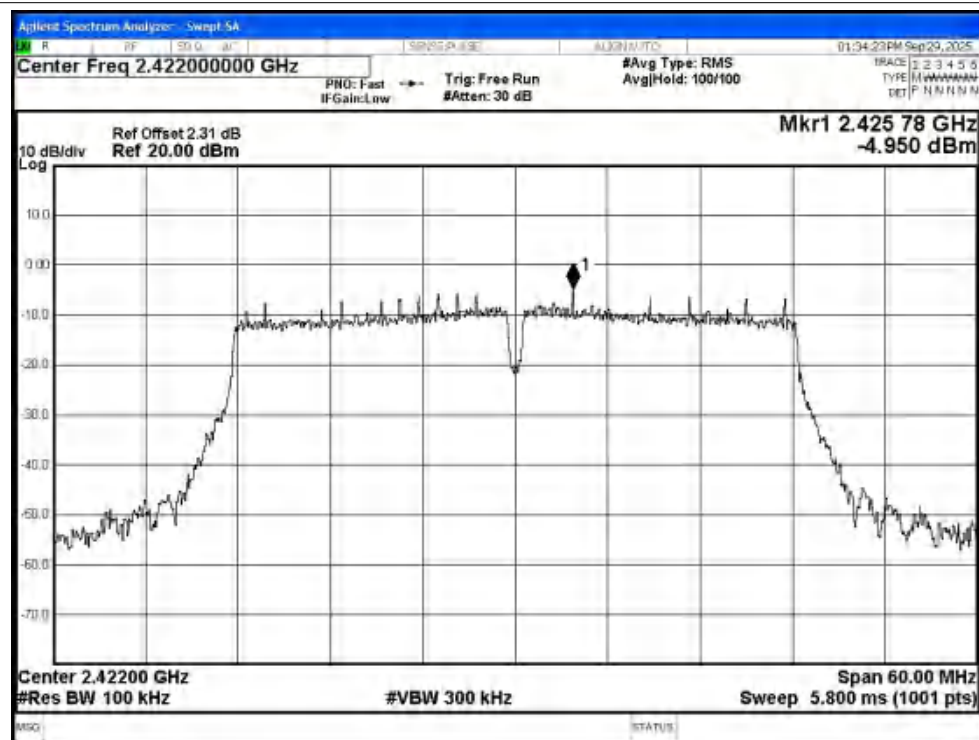
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



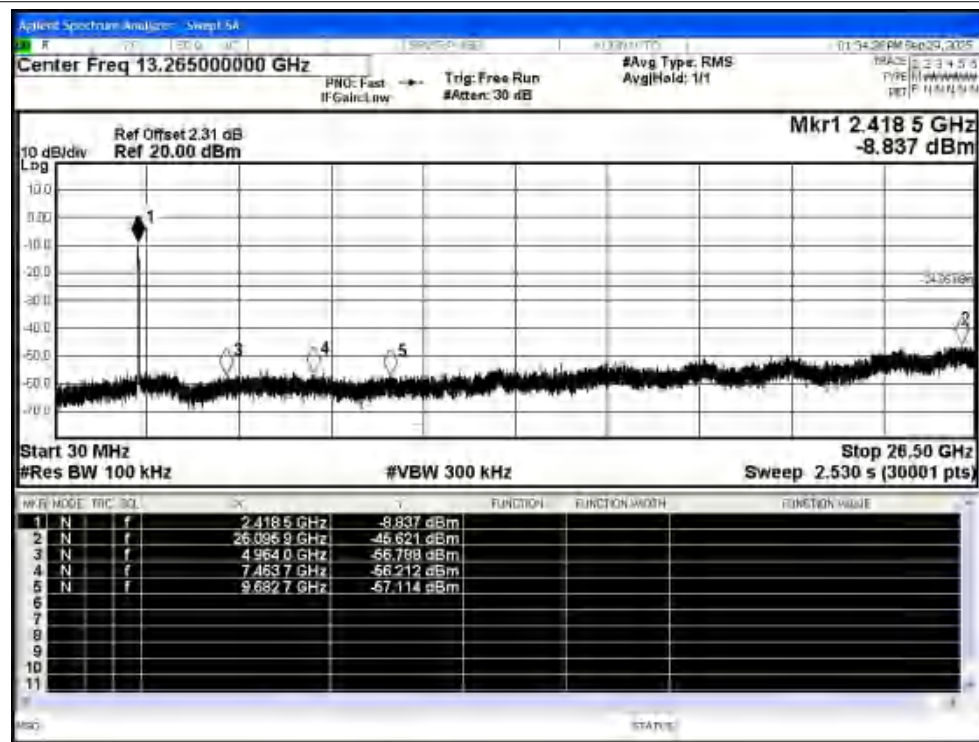
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



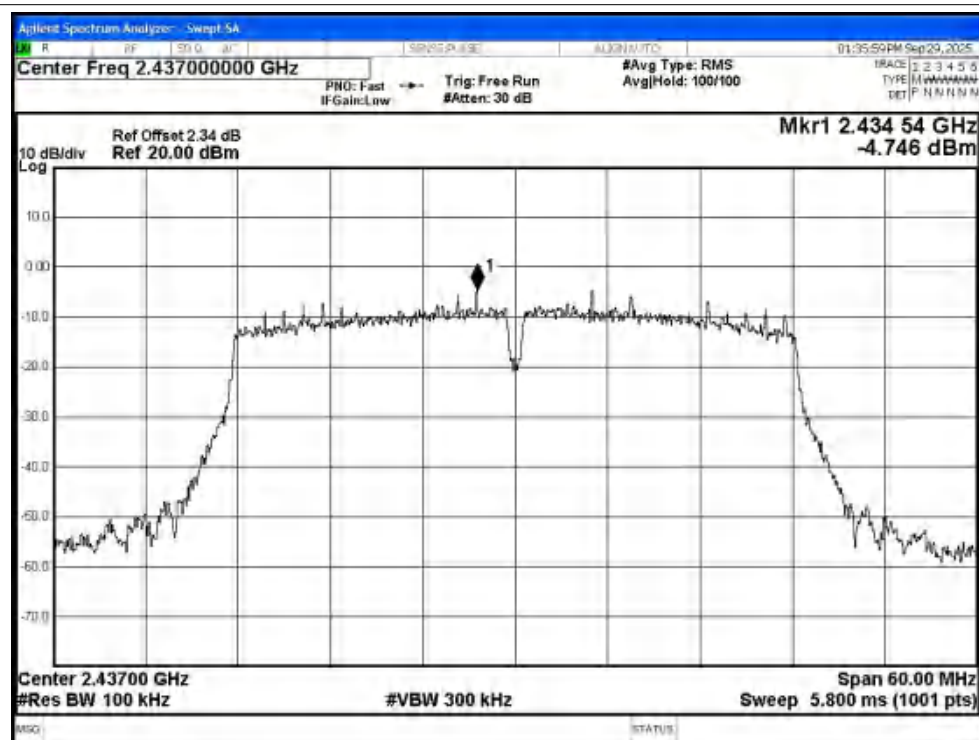
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



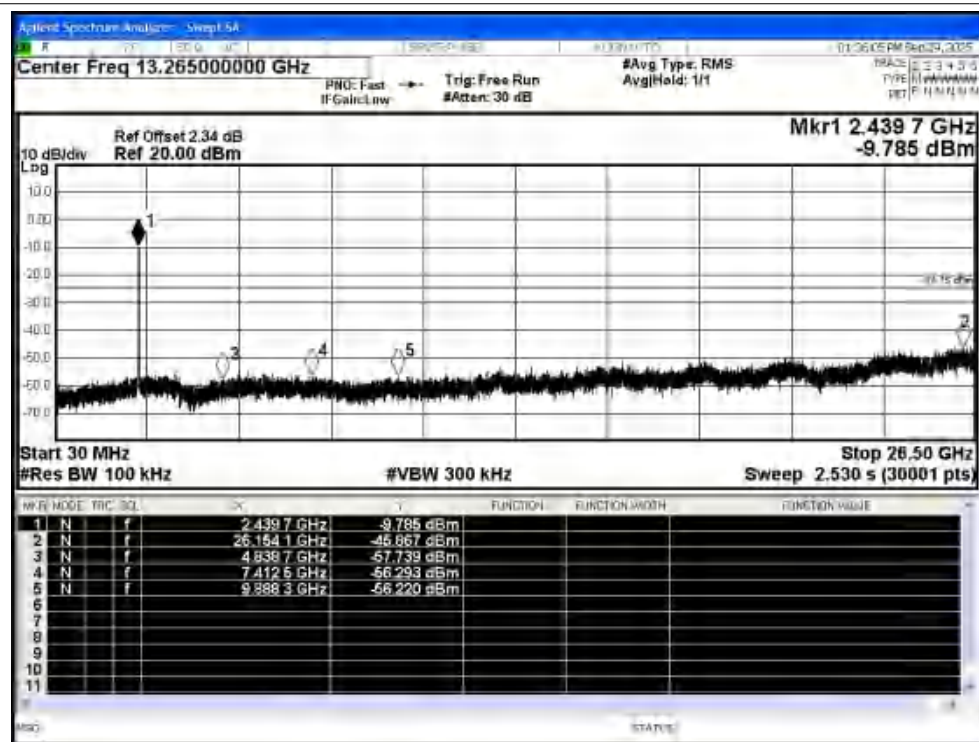
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



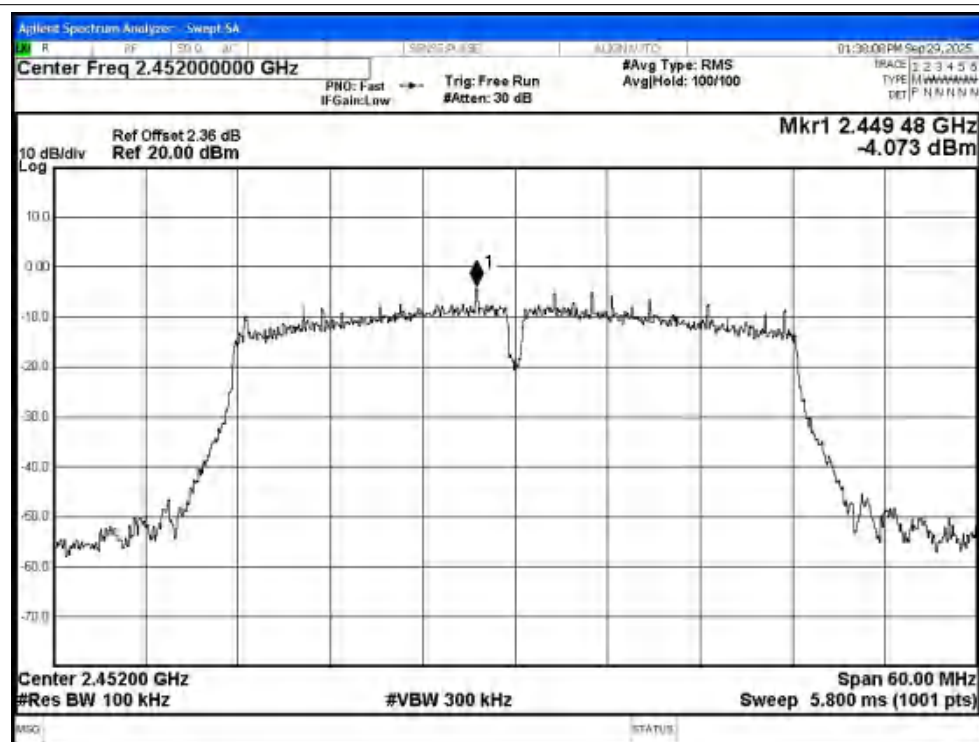
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



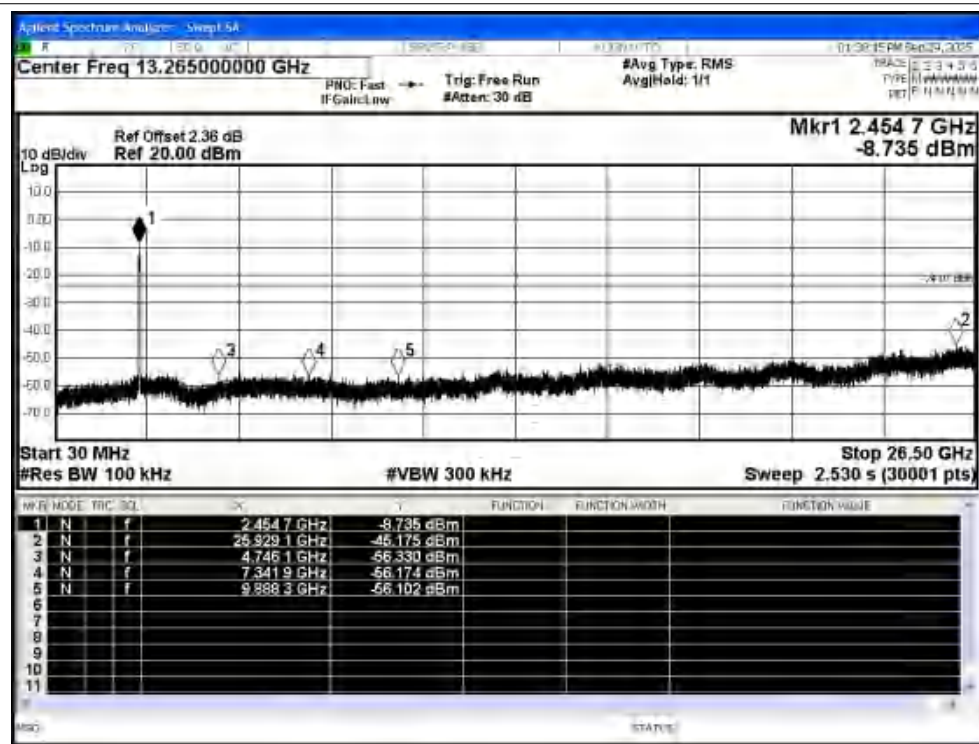
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref

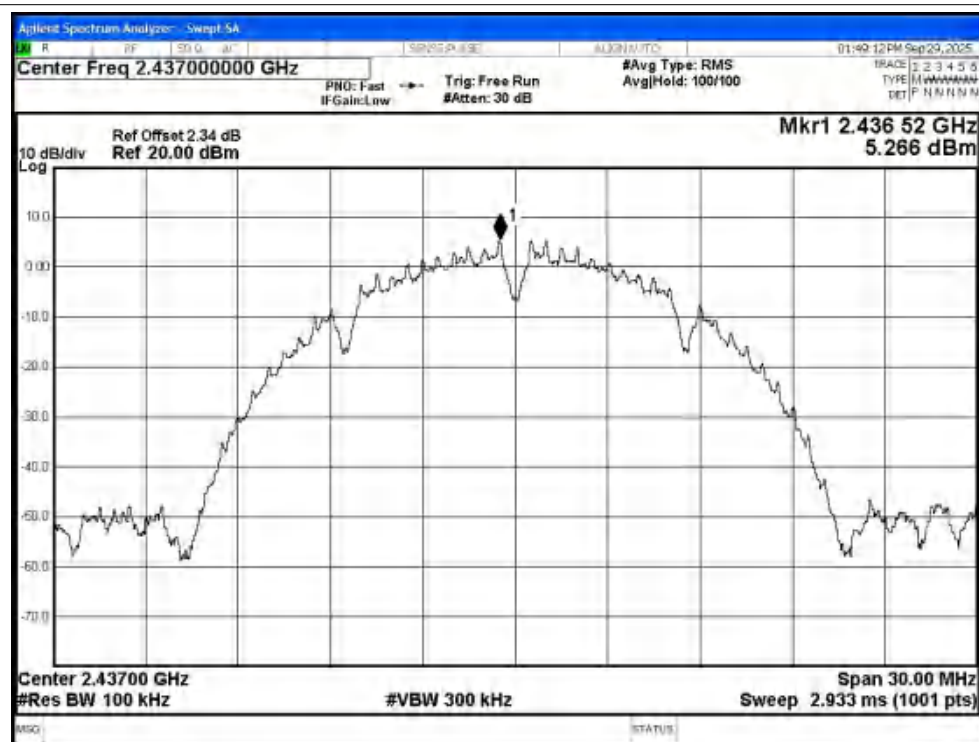


Tx. Spurious NVNT n40 2452MHz Ant1 Emission

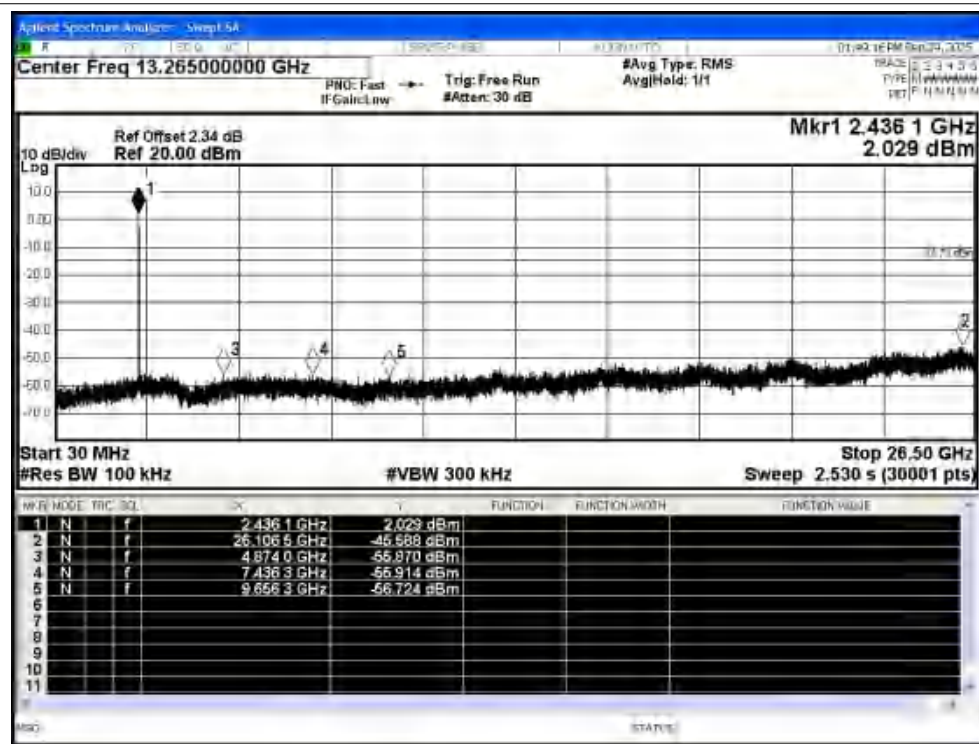


Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant2	-51.03	-20	Pass
NVNT	b	2437	Ant2	-50.85	-20	Pass
NVNT	b	2462	Ant2	-51.22	-20	Pass
NVNT	g	2412	Ant2	-43.18	-20	Pass
NVNT	g	2437	Ant2	-43.37	-20	Pass
NVNT	g	2462	Ant2	-44.38	-20	Pass
NVNT	n20	2412	Ant2	-42.47	-20	Pass
NVNT	n20	2437	Ant2	-43.09	-20	Pass
NVNT	n20	2462	Ant2	-43.02	-20	Pass
NVNT	n40	2422	Ant2	-39.78	-20	Pass
NVNT	n40	2437	Ant2	-39.38	-20	Pass
NVNT	n40	2452	Ant2	-40.16	-20	Pass

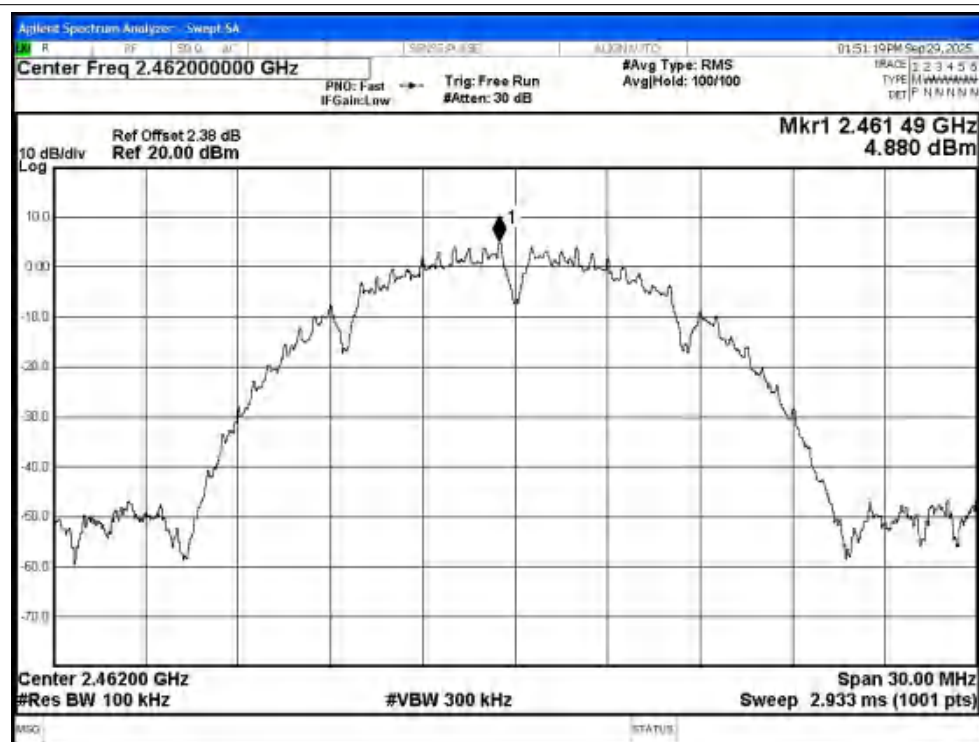
Tx. Spurious NVNT b 2437MHz Ant2 Ref



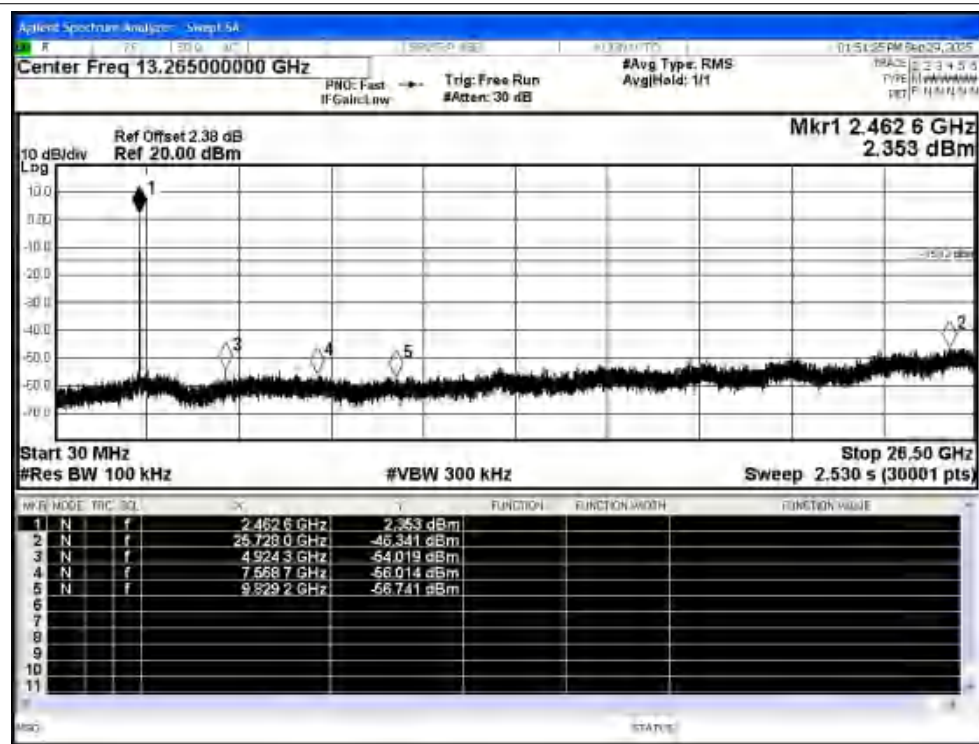
Tx. Spurious NVNT b 2437MHz Ant2 Emission



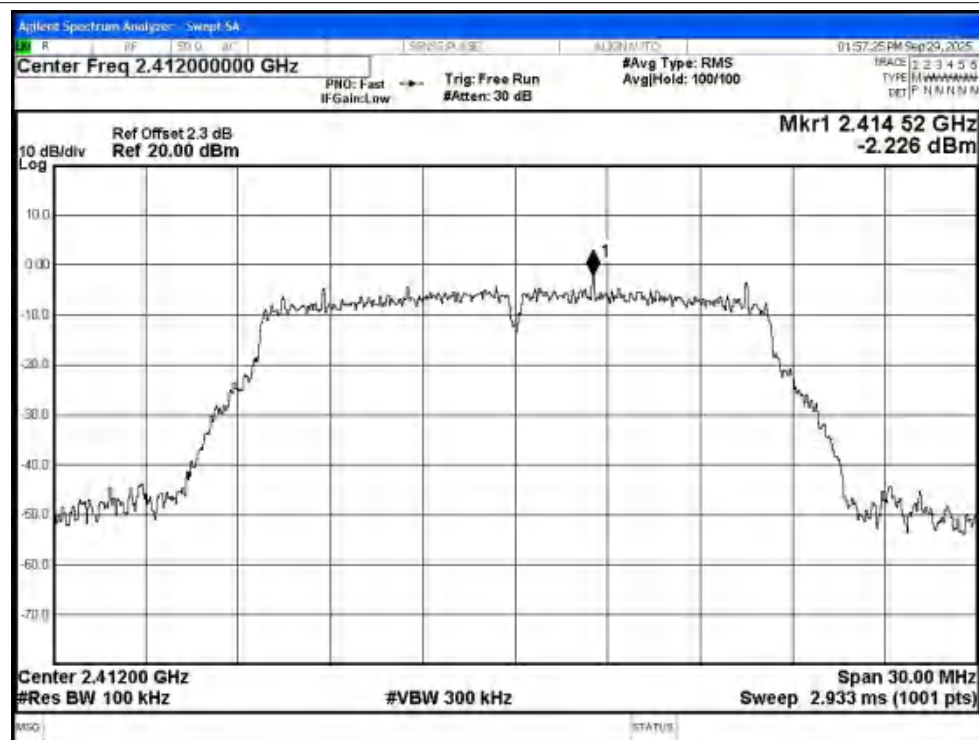
Tx. Spurious NVNT b 2462MHz Ant2 Ref



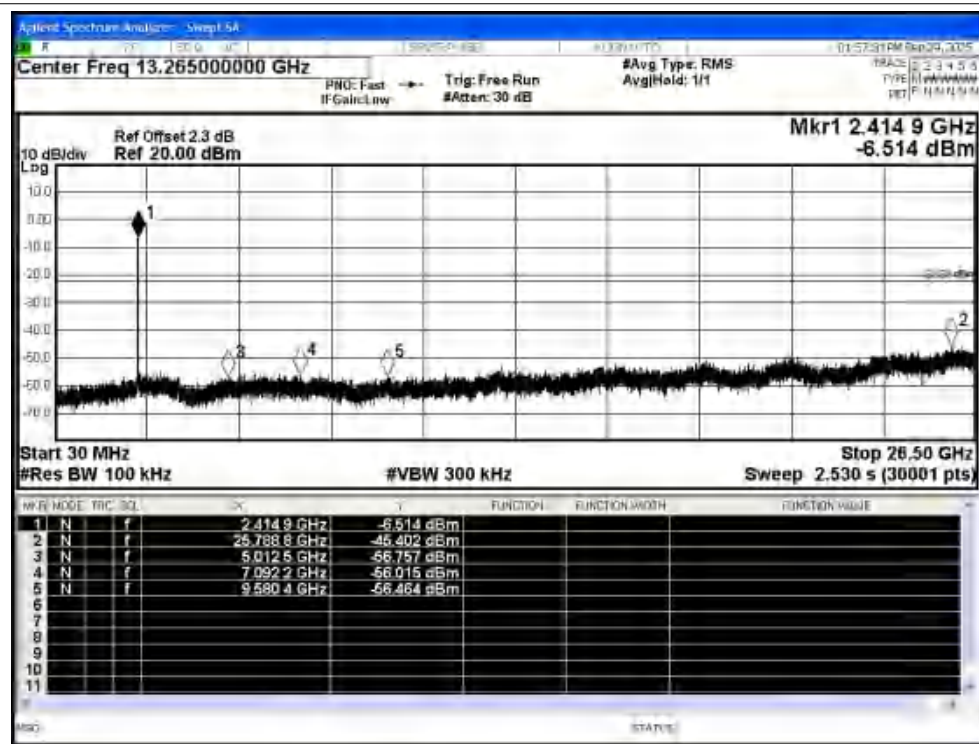
Tx. Spurious NVNT b 2462MHz Ant2 Emission



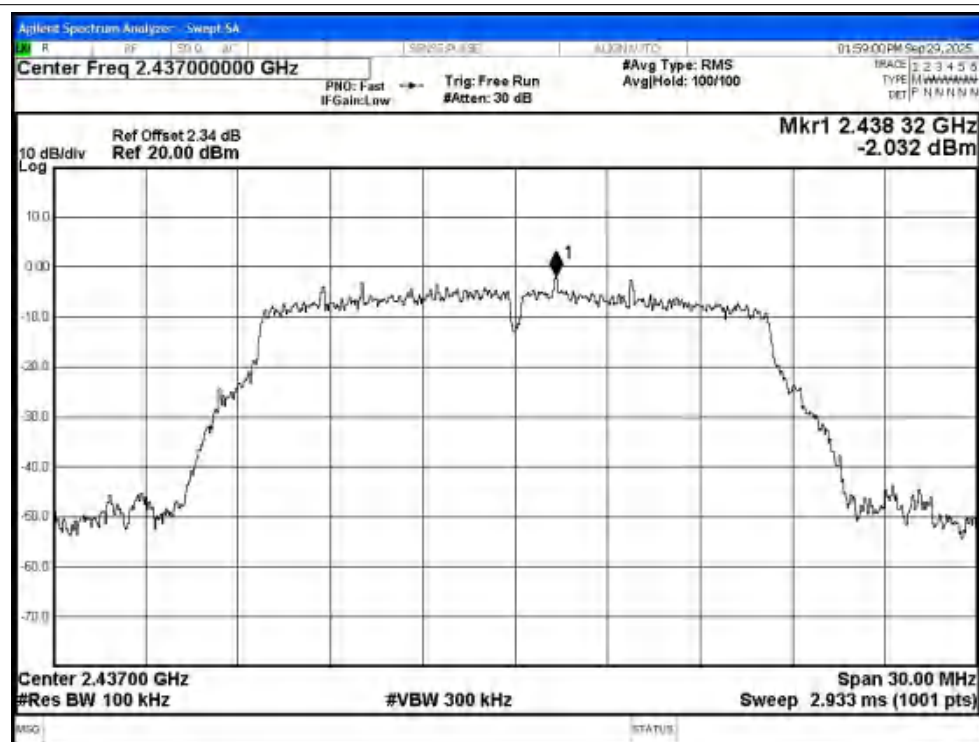
Tx. Spurious NVNT g 2412MHz Ant2 Ref



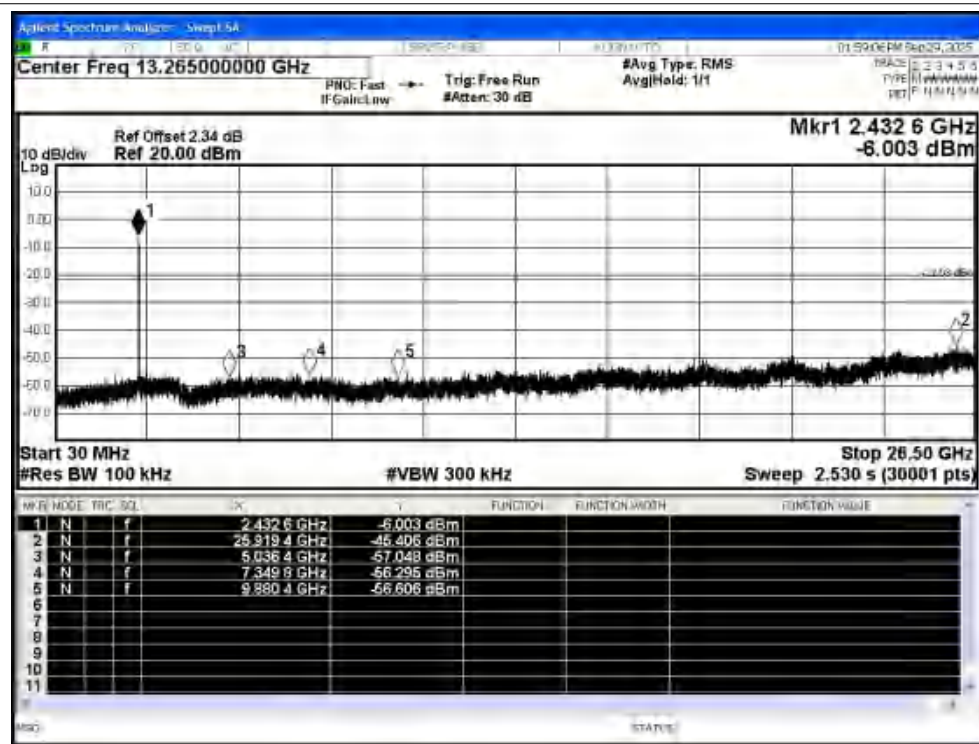
Tx. Spurious NVNT g 2412MHz Ant2 Emission



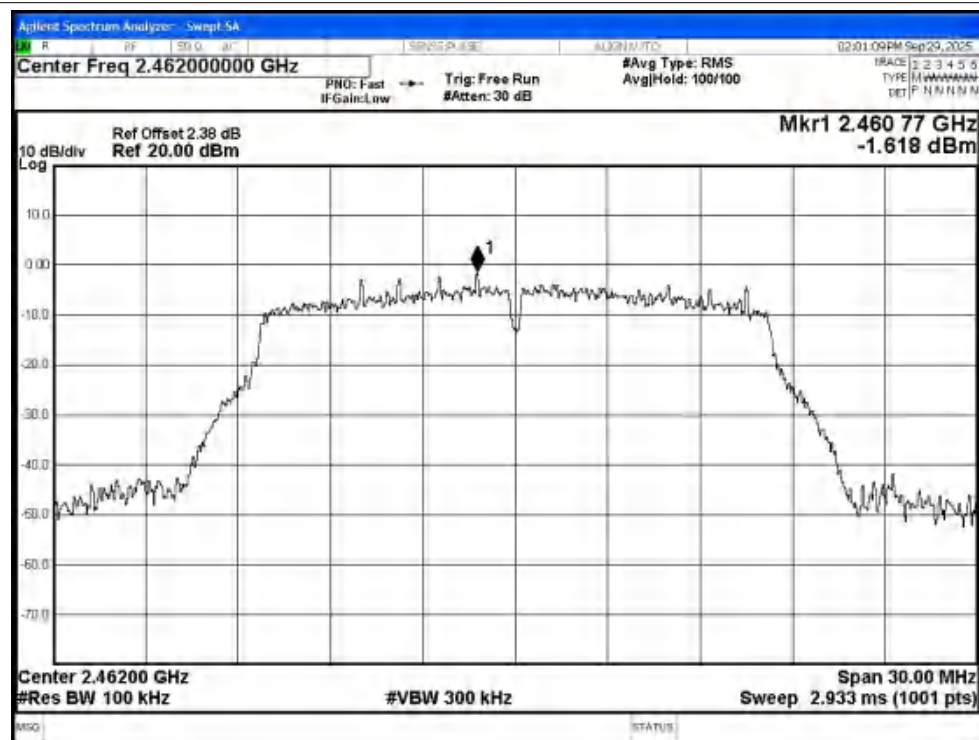
Tx. Spurious NVNT g 2437MHz Ant2 Ref



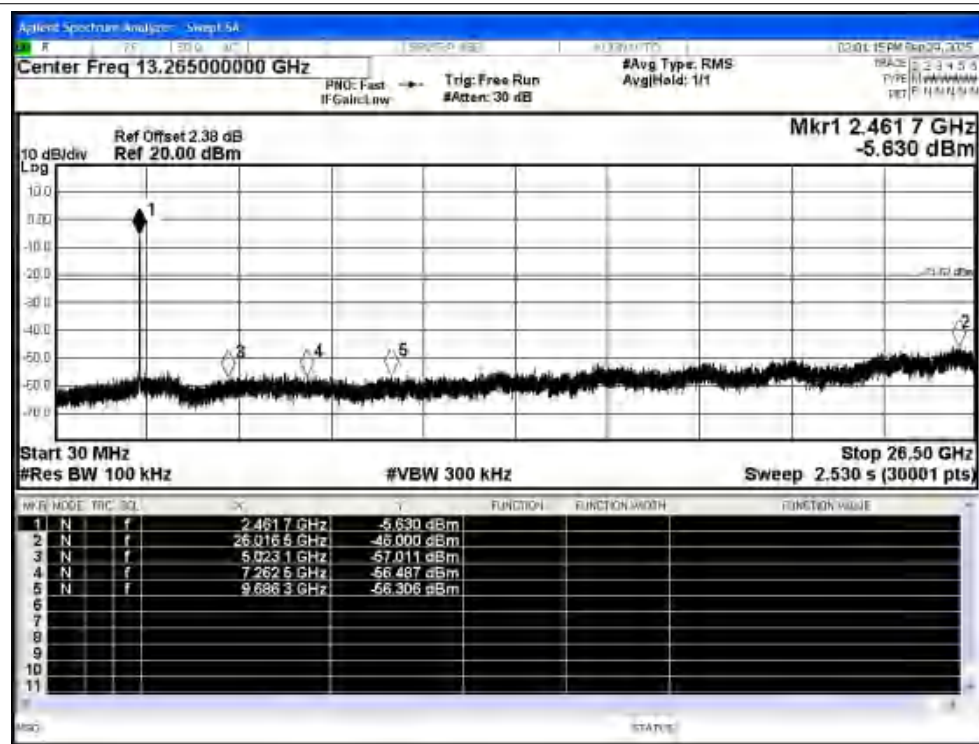
Tx. Spurious NVNT g 2437MHz Ant2 Emission



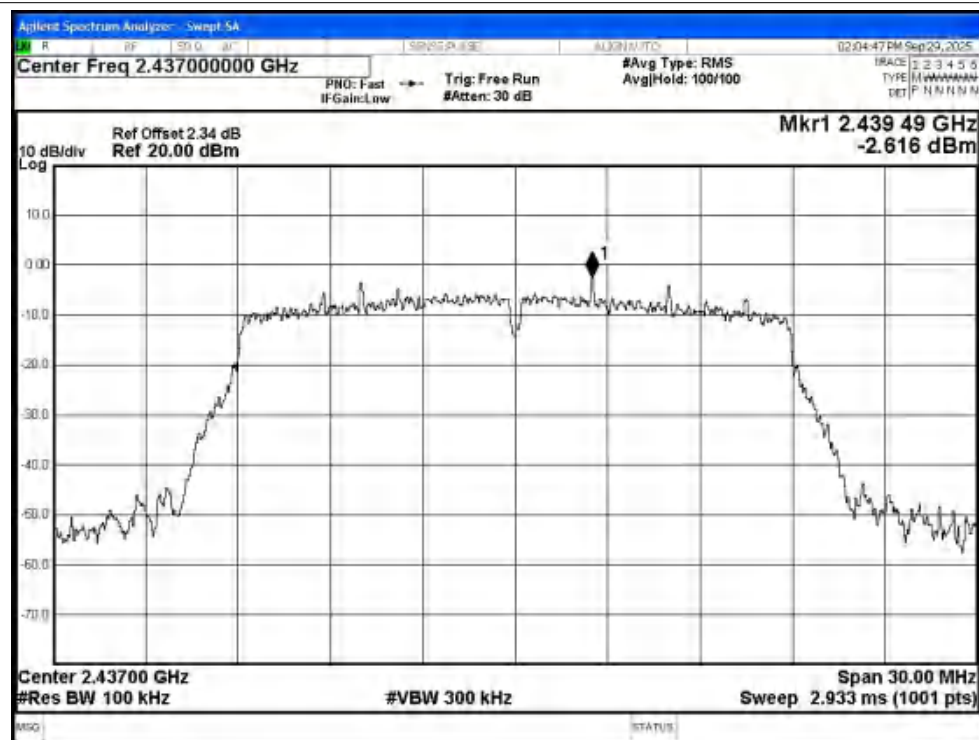
Tx. Spurious NVNT g 2462MHz Ant2 Ref



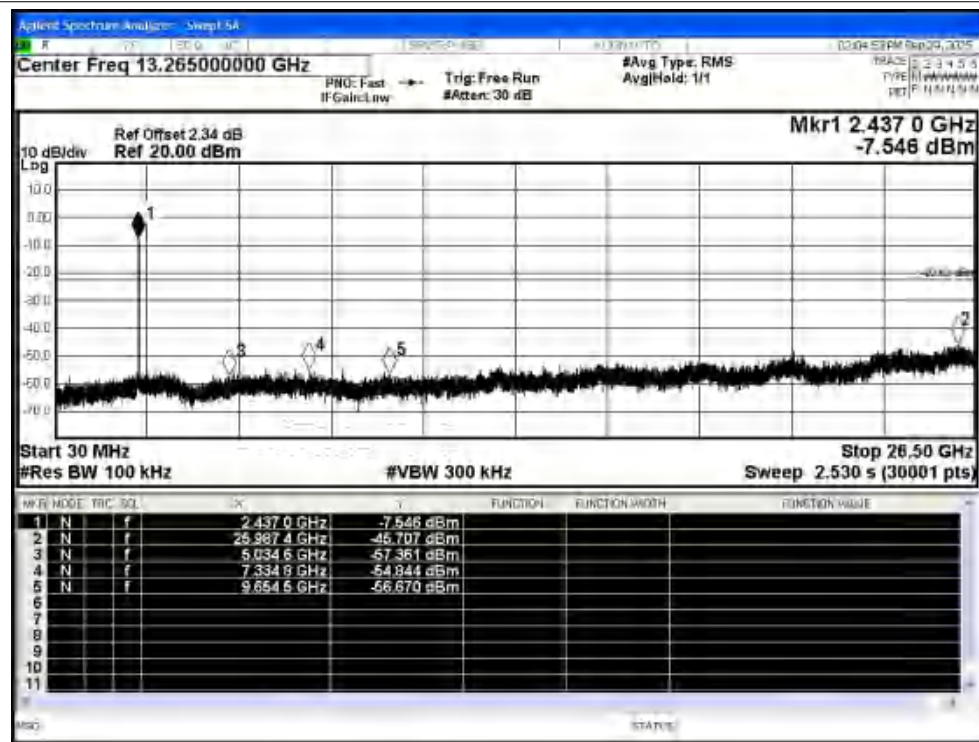
Tx. Spurious NVNT g 2462MHz Ant2 Emission



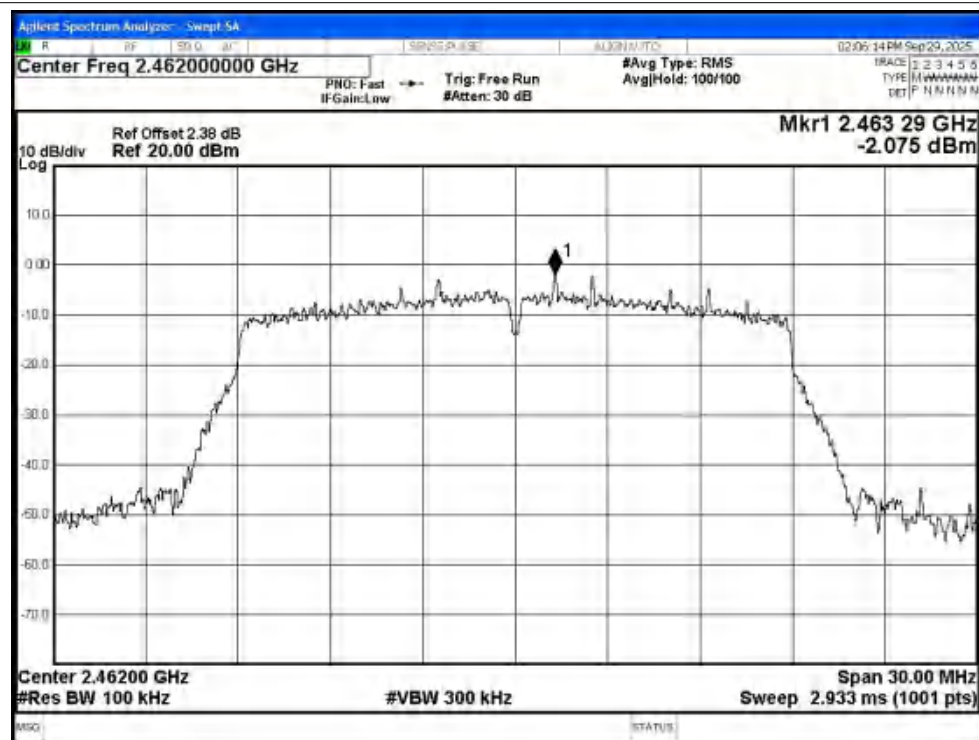
Tx. Spurious NVNT n20 2437MHz Ant2 Ref



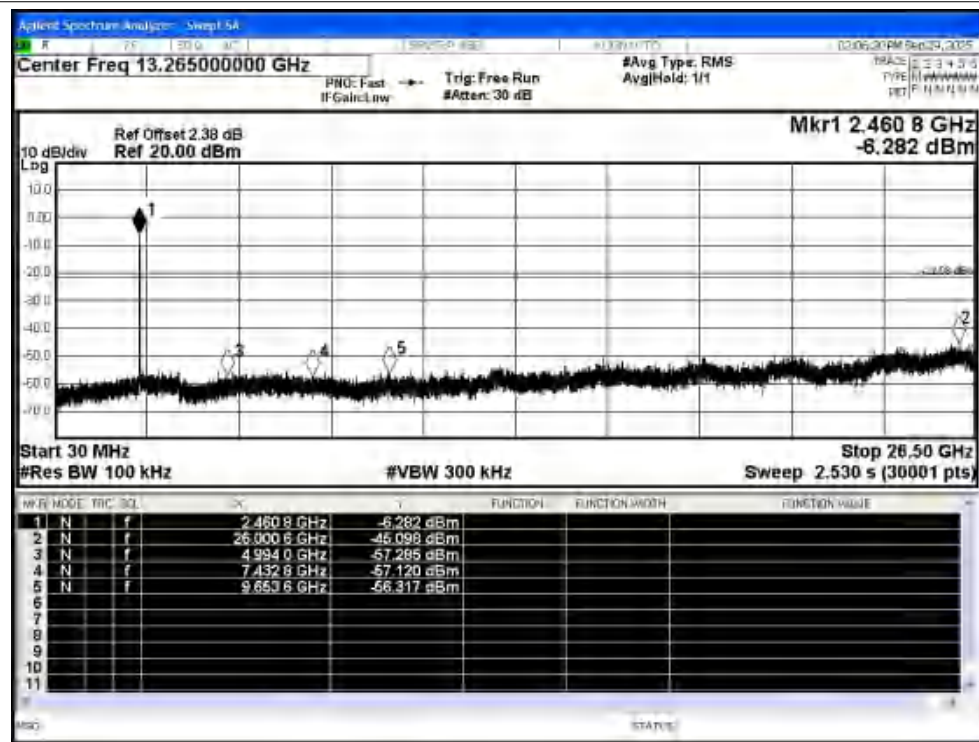
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



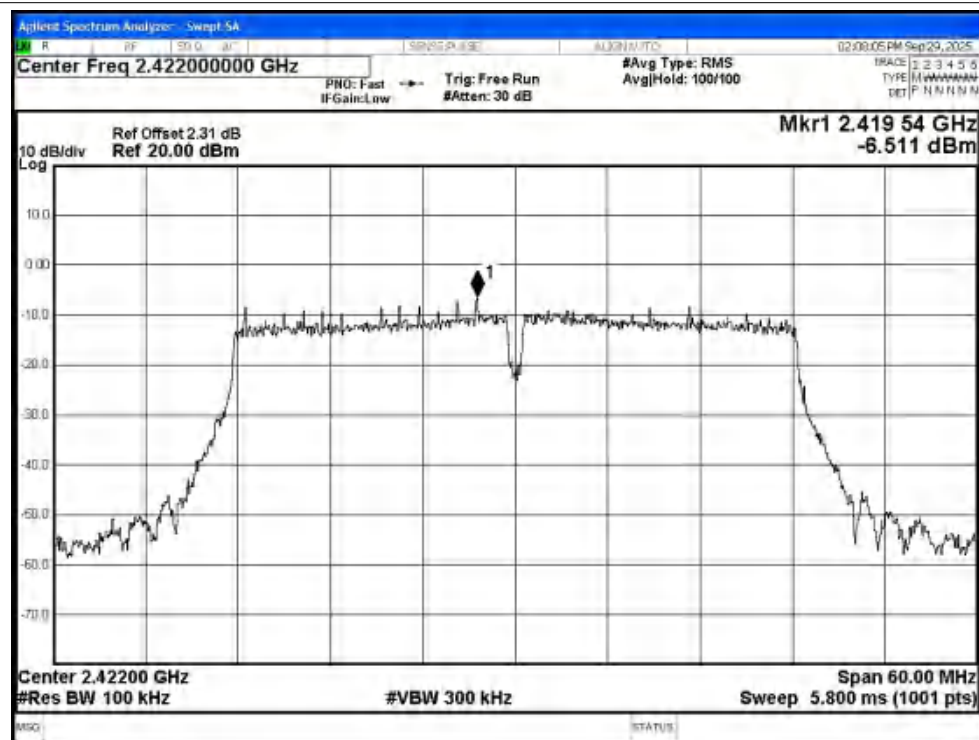
Tx. Spurious NVNT n20 2462MHz Ant2 Ref



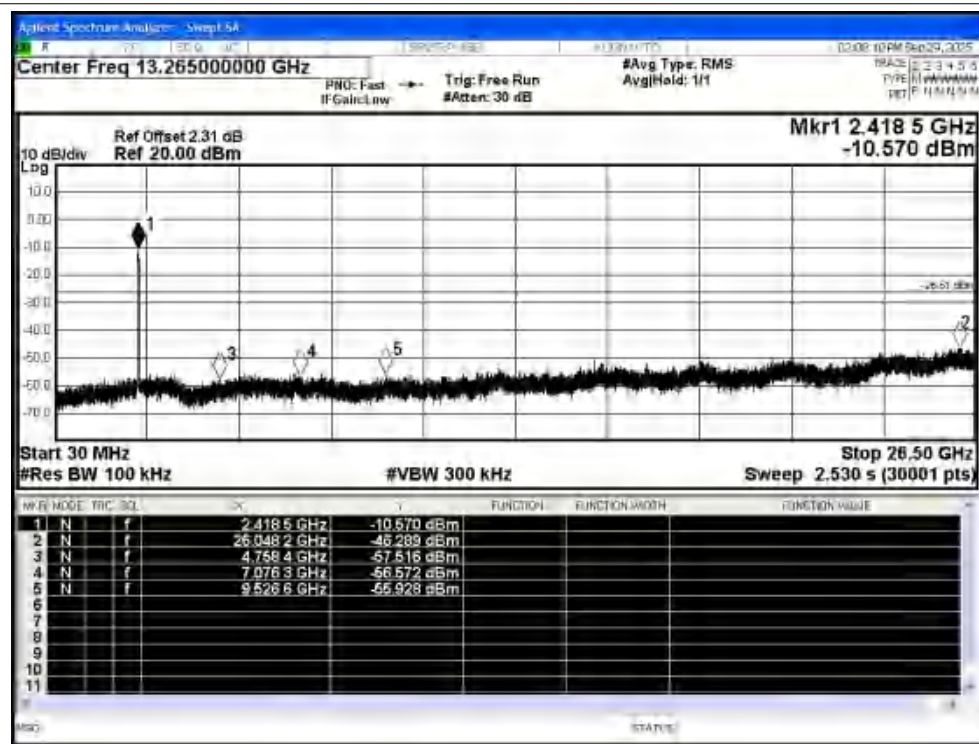
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



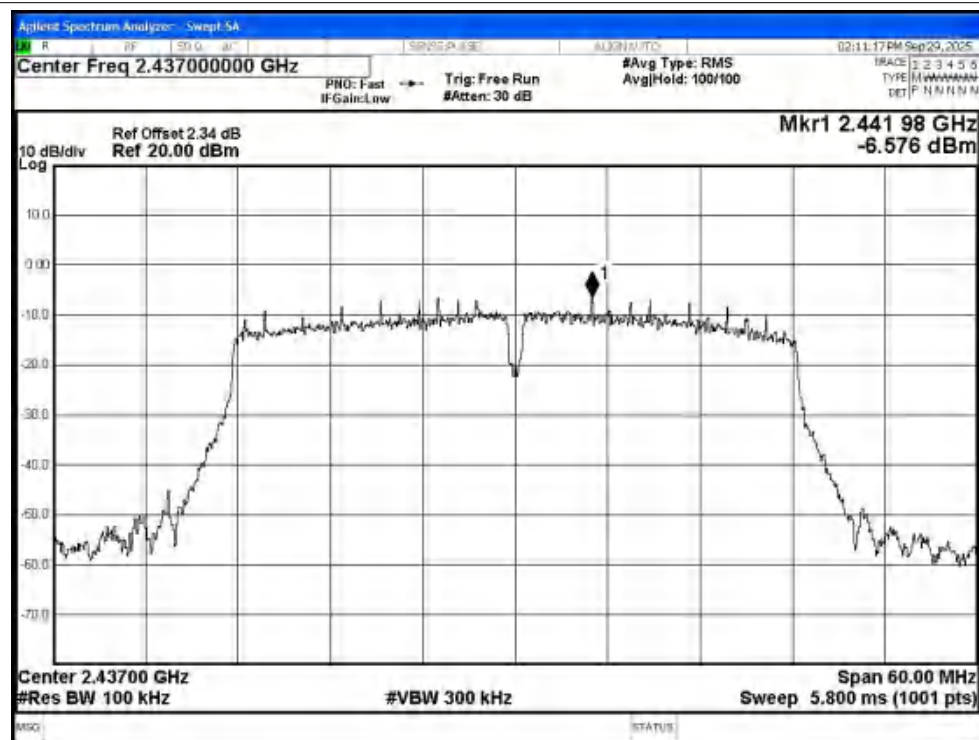
Tx. Spurious NVNT n40 2422MHz Ant2 Ref



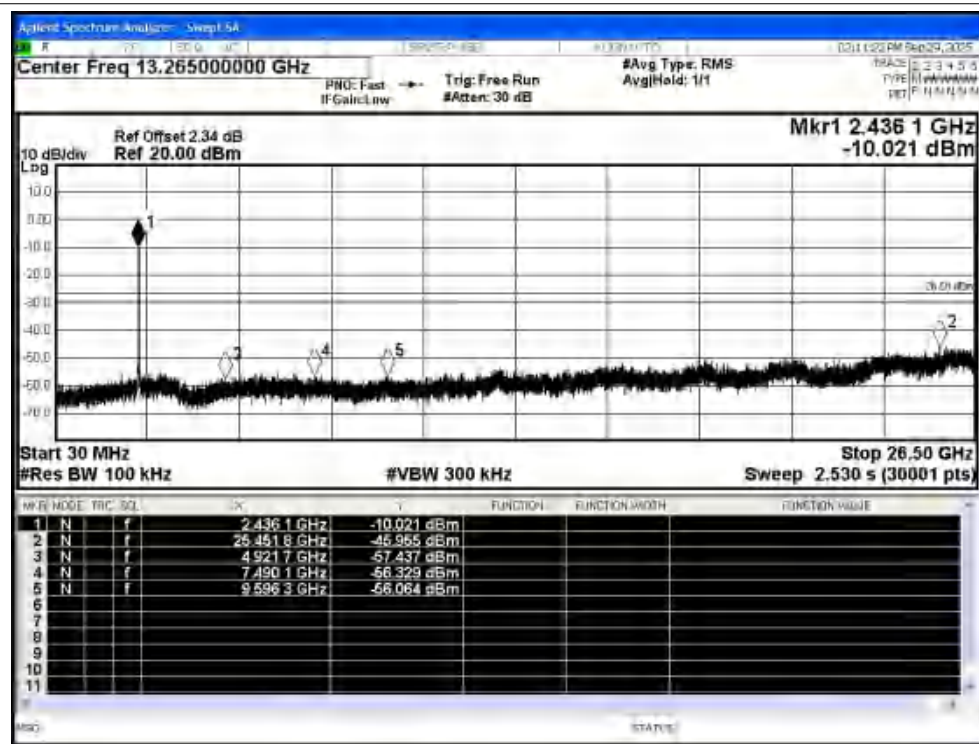
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



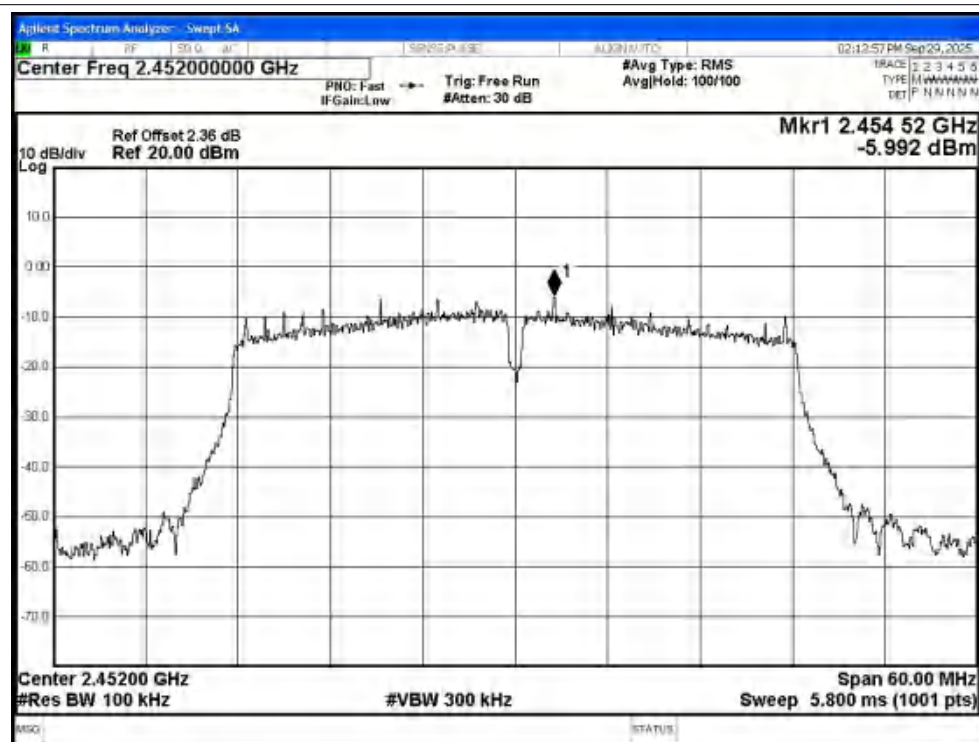
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



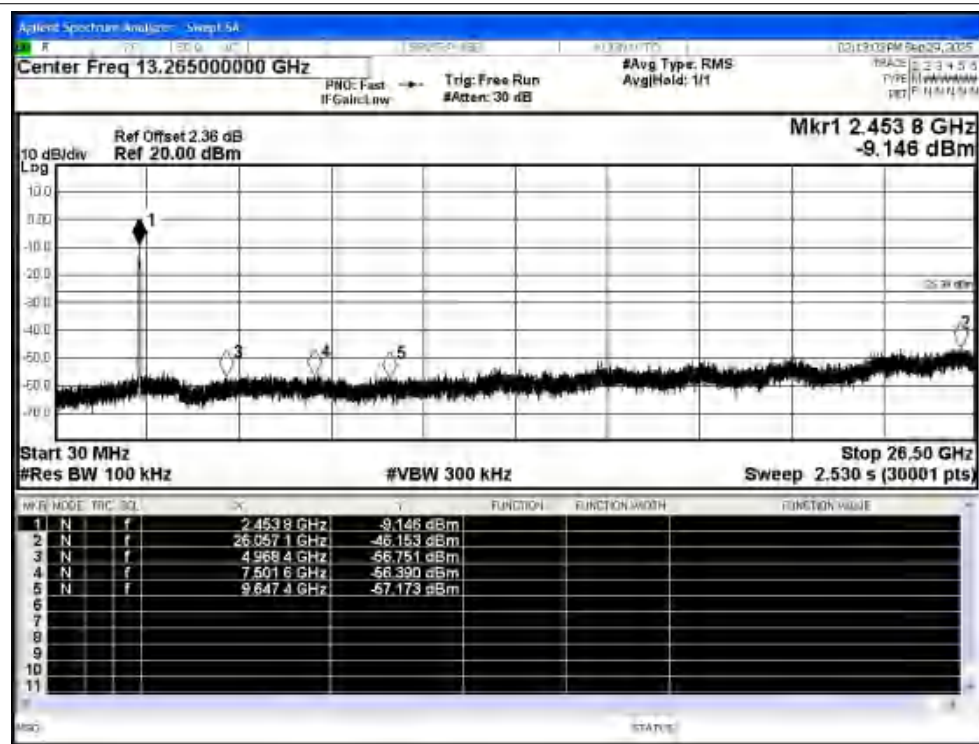
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



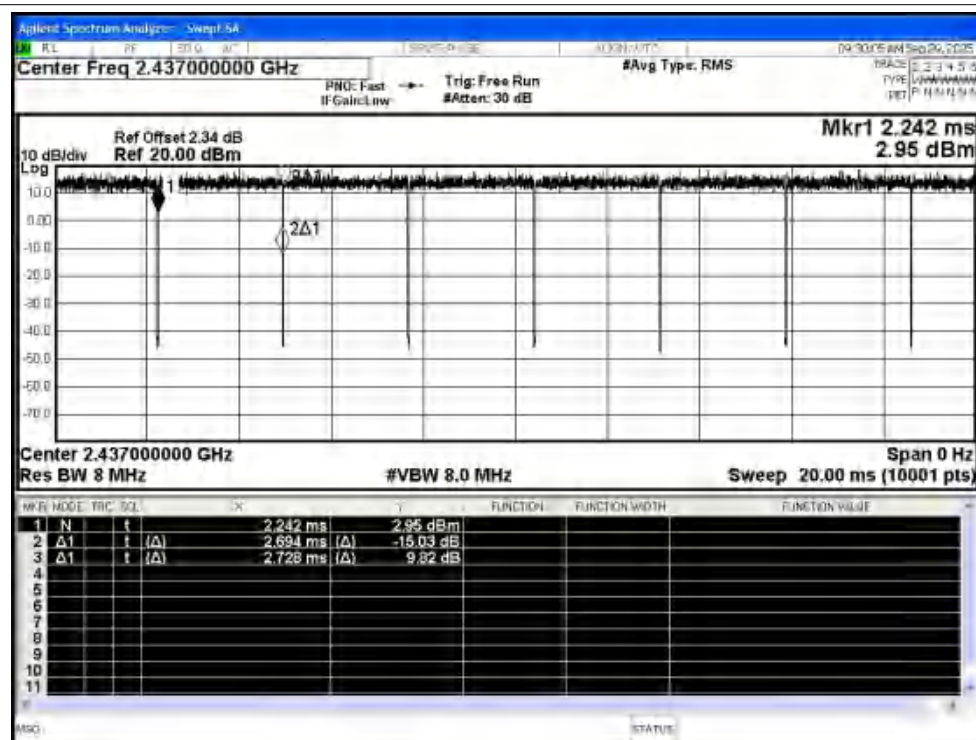
Tx. Spurious NVNT n40 2452MHz Ant2 Emission



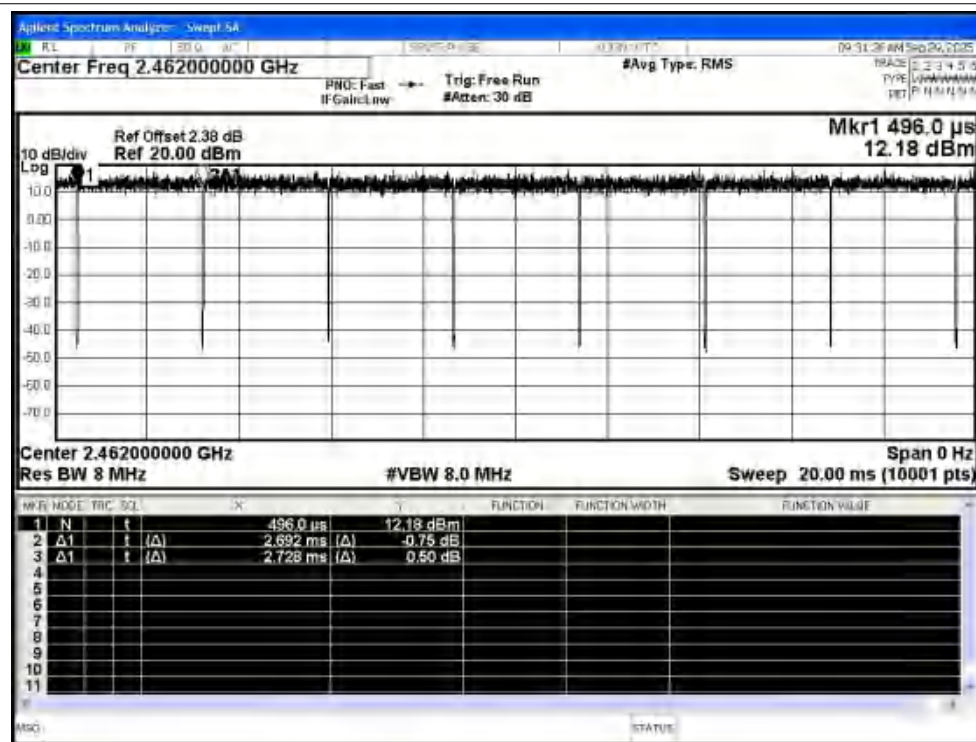
6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.67	0	0.12
NVNT	b	2437	Ant1	99.67	0	0.12
NVNT	b	2462	Ant1	99.67	0	0.12
NVNT	g	2412	Ant1	98.75	0	0.37
NVNT	g	2437	Ant1	98.75	0	0.37
NVNT	g	2462	Ant1	98.68	0	0.37
NVNT	n20	2412	Ant1	98.66	0	0.4
NVNT	n20	2437	Ant1	98.58	0	0.4
NVNT	n20	2462	Ant1	98.66	0	0.4
NVNT	n40	2422	Ant1	97.14	0.13	0.82
NVNT	n40	2437	Ant1	97.3	0.12	0.82
NVNT	n40	2452	Ant1	97.3	0.12	0.82

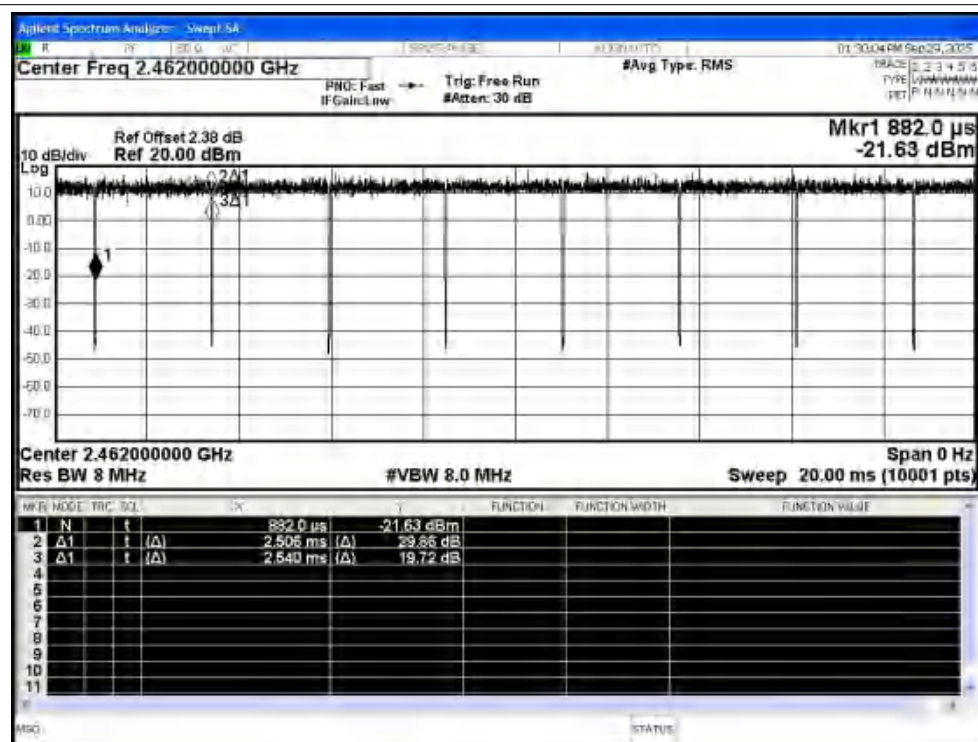
Duty Cycle NVNT g 2437MHz Ant1



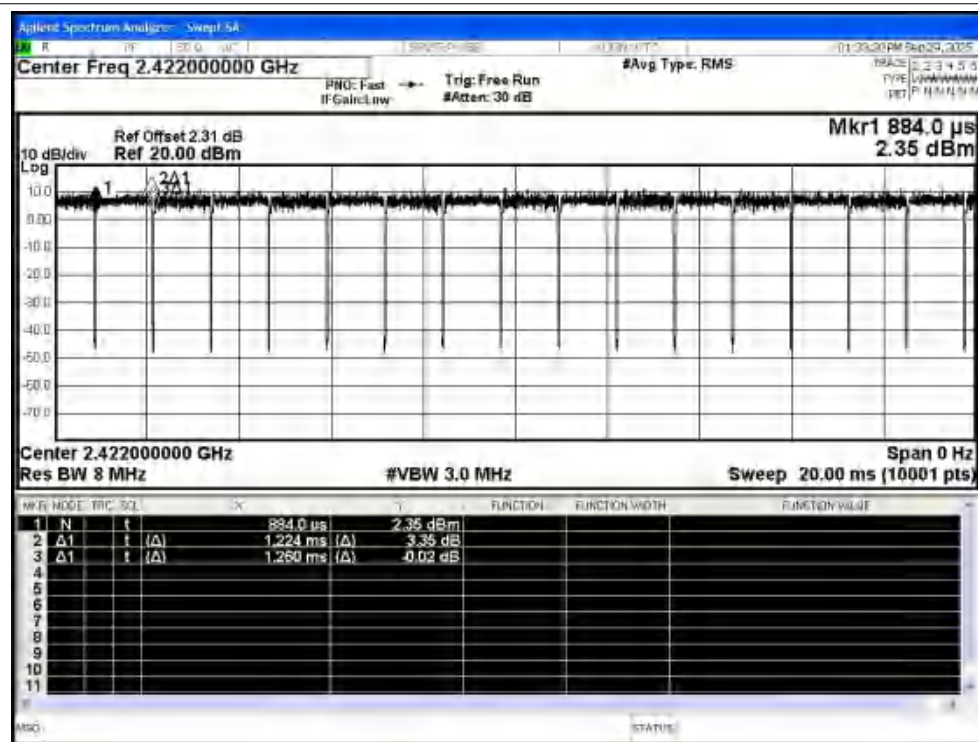
Duty Cycle NVNT g 2462MHz Ant1



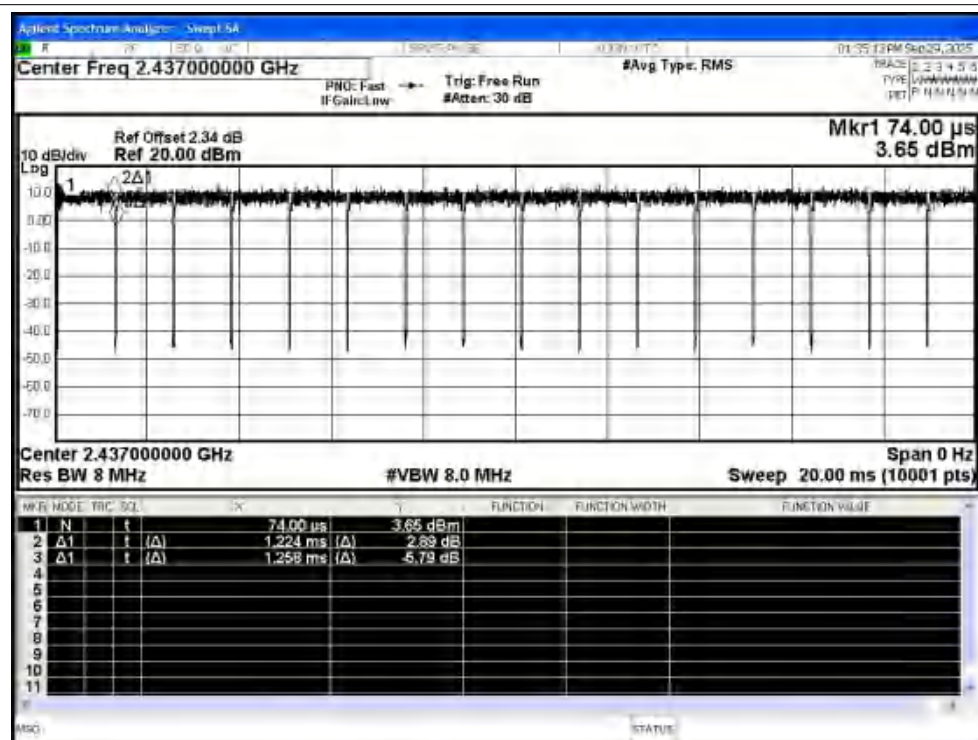
Duty Cycle NVNT n20 2462MHz Ant1



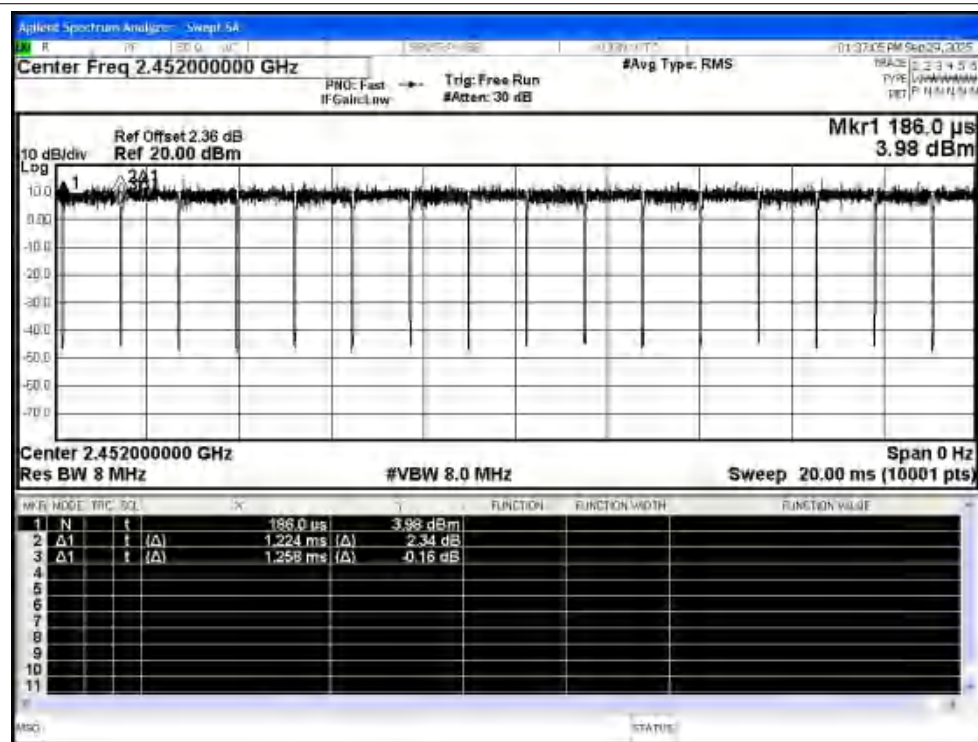
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1

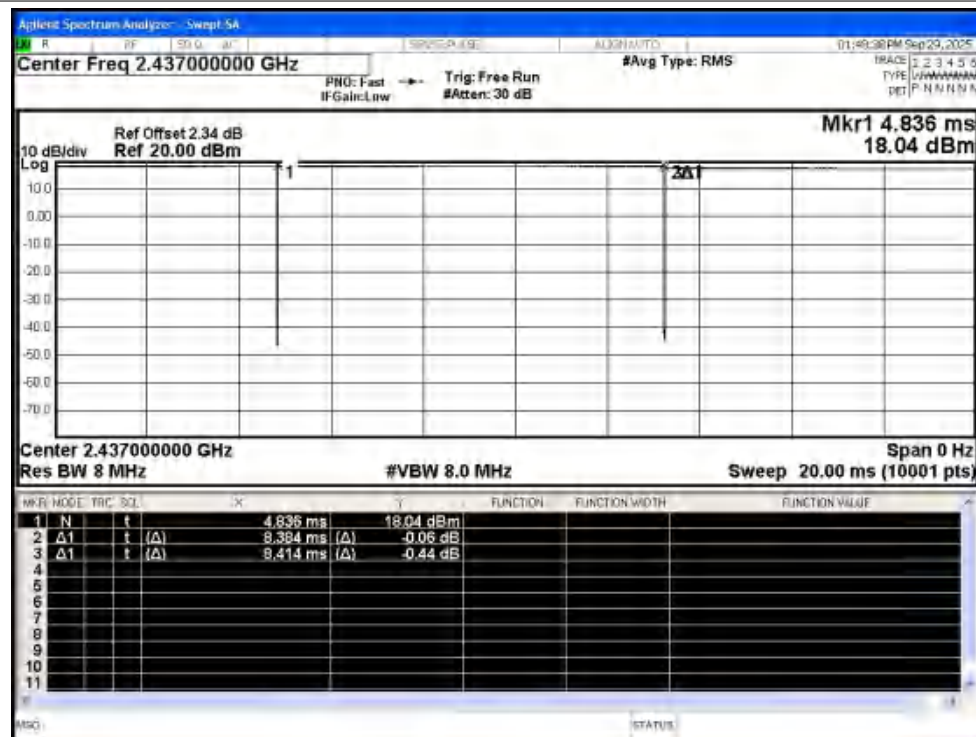
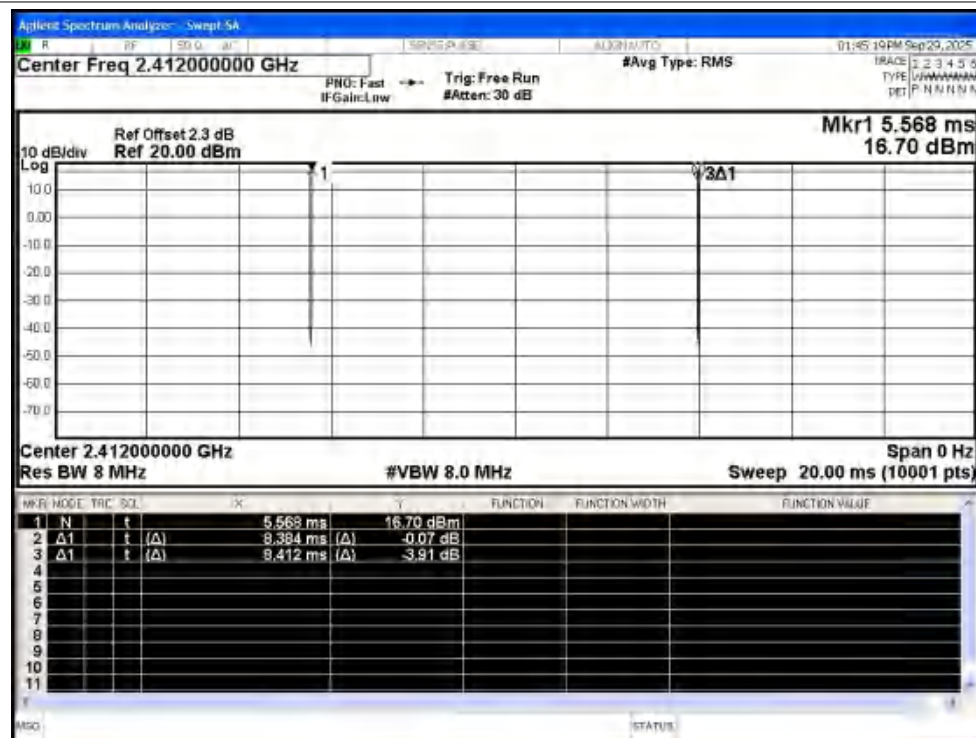


Duty Cycle NVNT n40 2452MHz Ant1

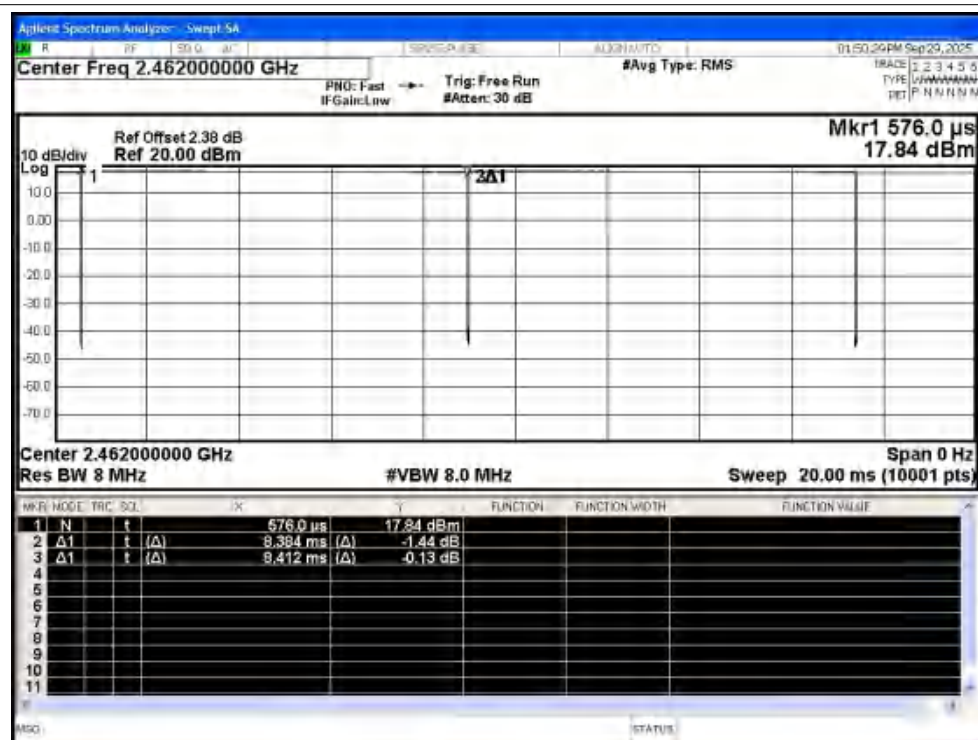


Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant2	99.67	0	0.12
NVNT	b	2437	Ant2	99.64	0	0.12
NVNT	b	2462	Ant2	99.67	0	0.12
NVNT	g	2412	Ant2	98.68	0	0.37
NVNT	g	2437	Ant2	98.68	0	0.37
NVNT	g	2462	Ant2	98.68	0	0.37
NVNT	n20	2412	Ant2	98.66	0	0.4
NVNT	n20	2437	Ant2	98.58	0	0.4
NVNT	n20	2462	Ant2	98.58	0	0.4
NVNT	n40	2422	Ant2	97.3	0.12	0.82
NVNT	n40	2437	Ant2	97.3	0.12	0.82
NVNT	n40	2452	Ant2	97.14	0.13	0.82

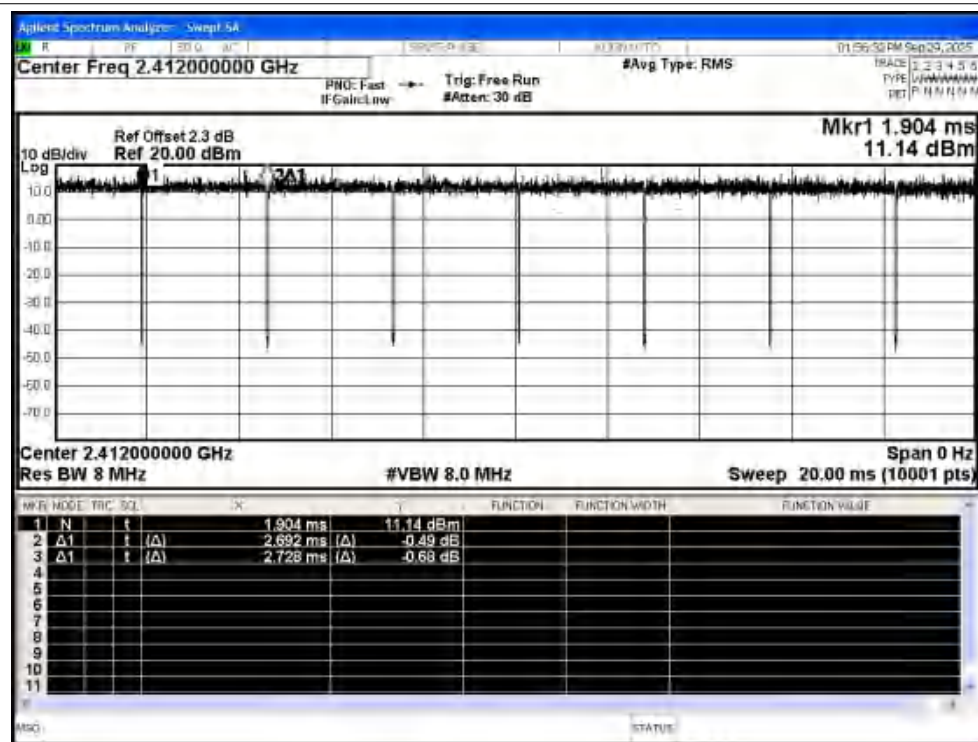
Duty Cycle NVNT b 2412MHz Ant2



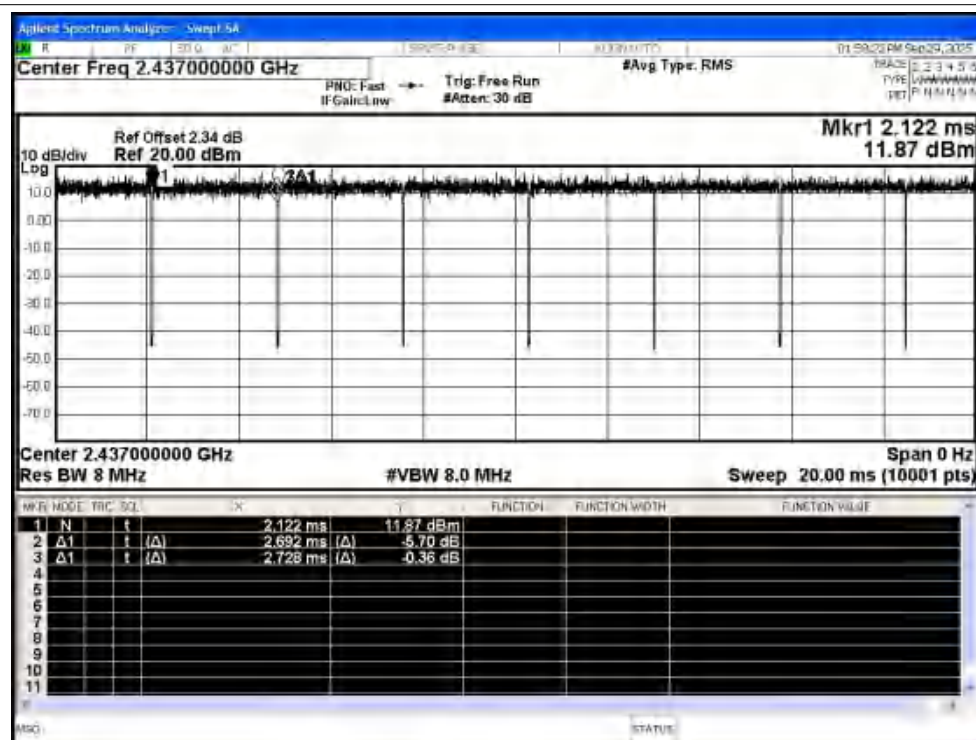
Duty Cycle NVNT b 2462MHz Ant2



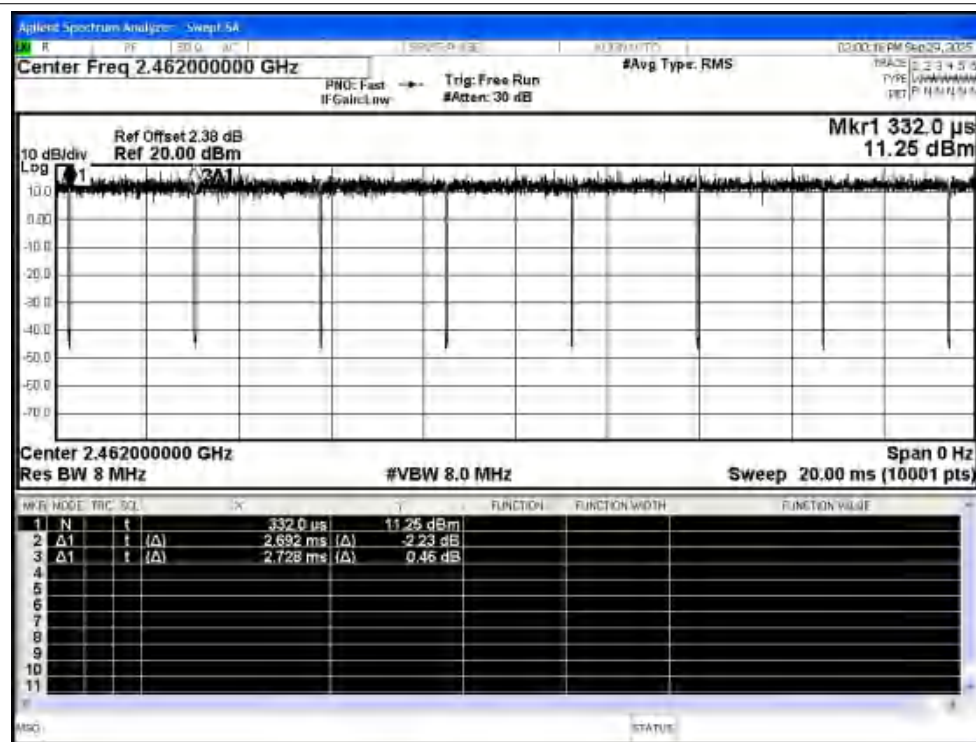
Duty Cycle NVNT g 2412MHz Ant2



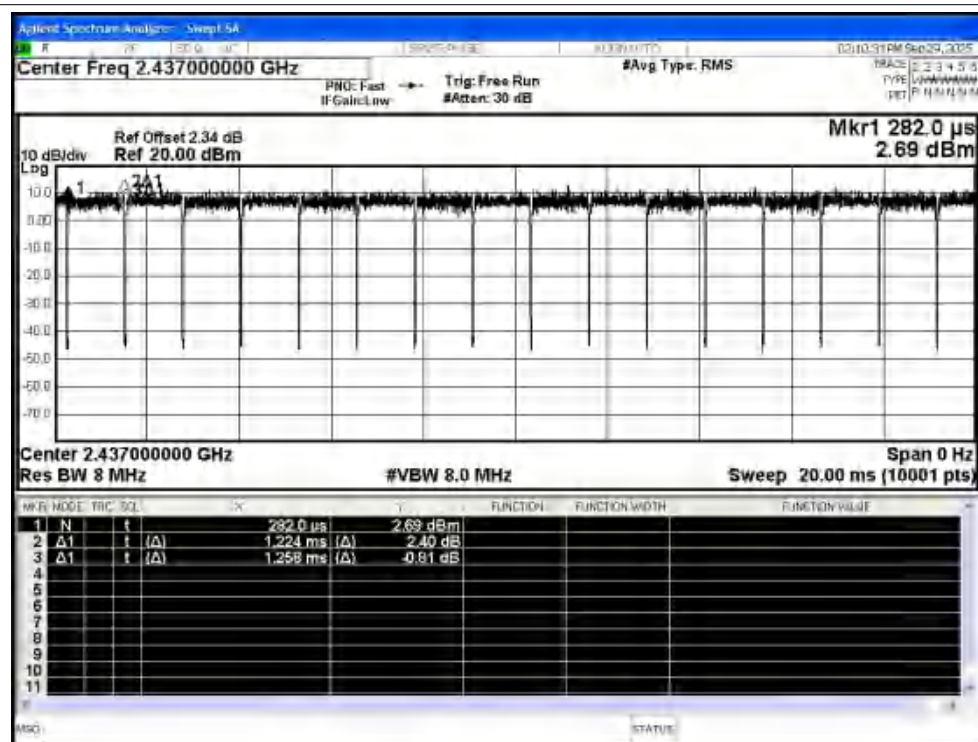
Duty Cycle NVNT g 2437MHz Ant2



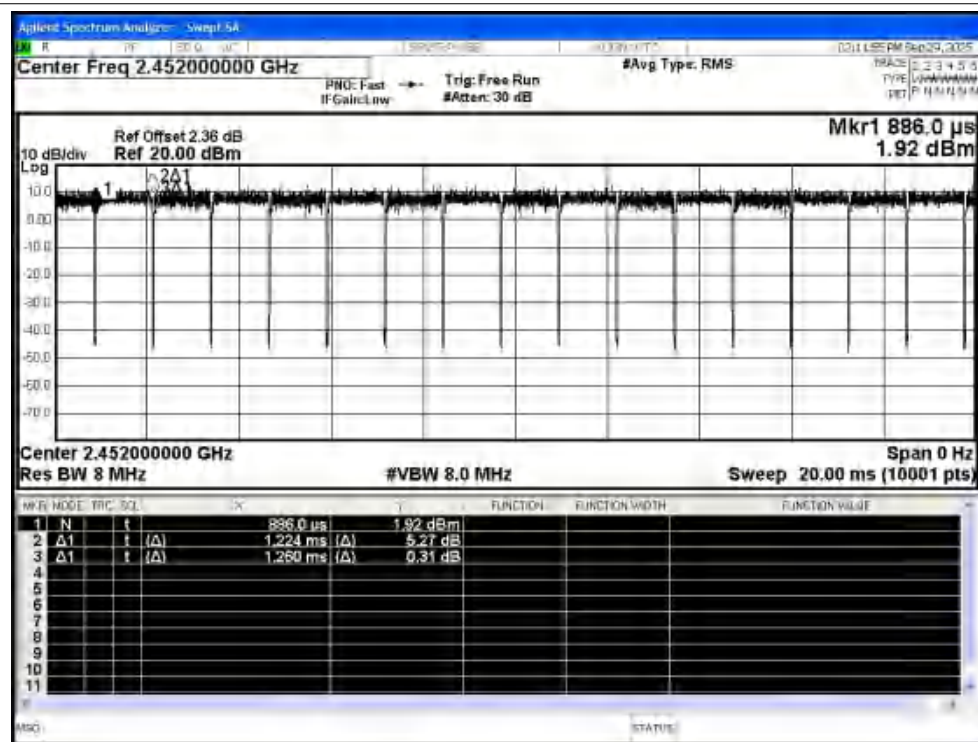
Duty Cycle NVNT g 2462MHz Ant2



Duty Cycle NVNT n40 2437MHz Ant2



Duty Cycle NVNT n40 2452MHz Ant2

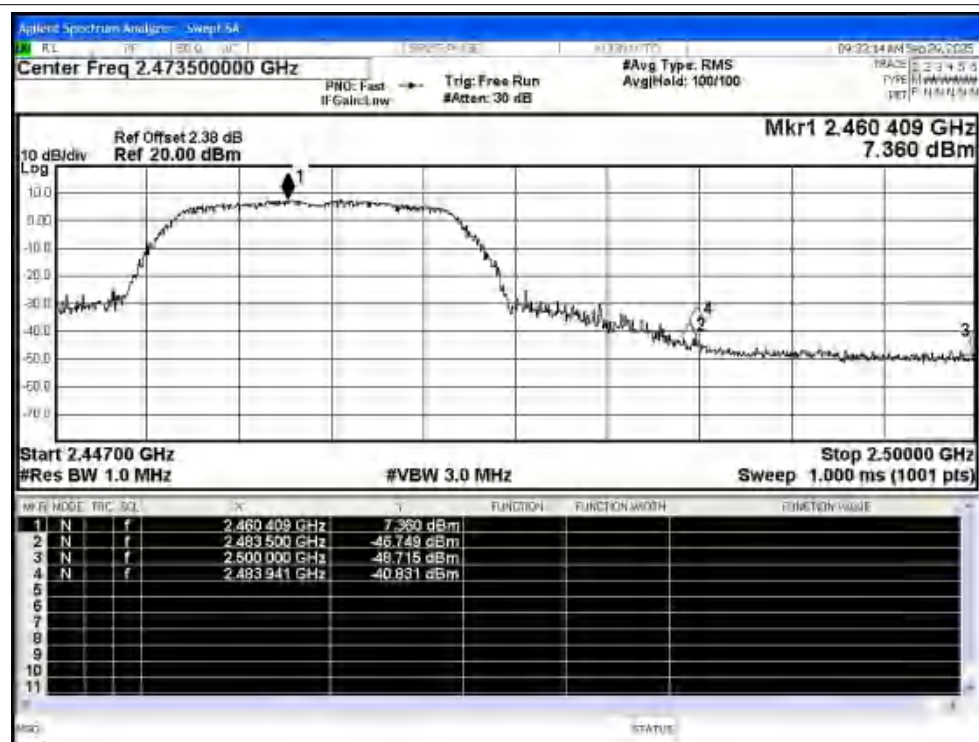


7 Restrict Band

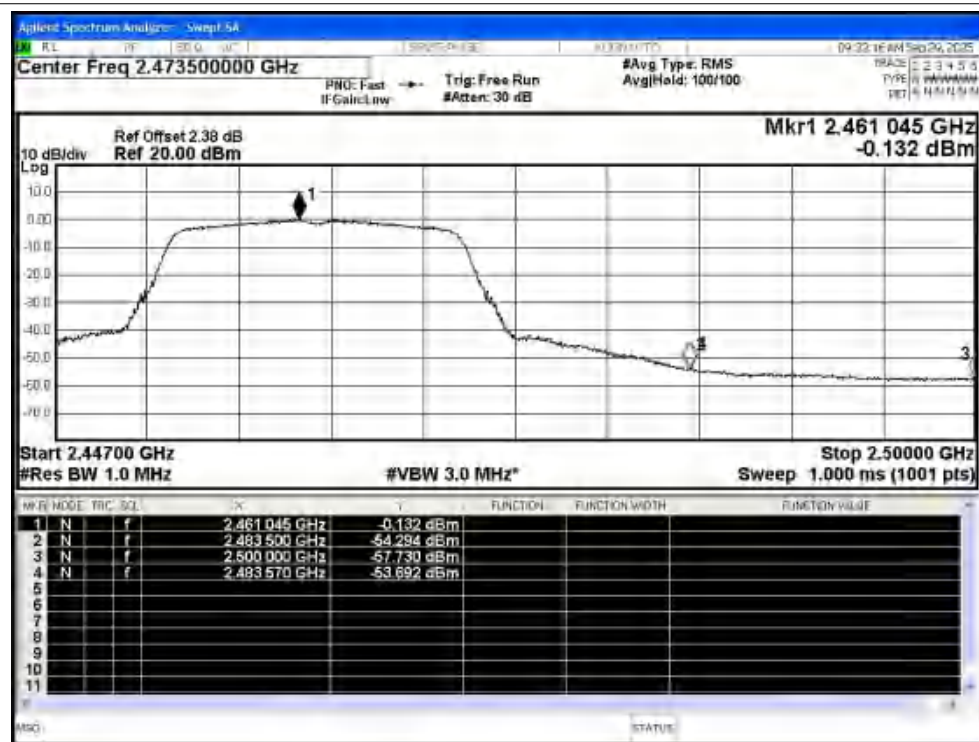
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-49.96	4.85	-	50.15	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58	4.85	0	42.11	Average	54	Pass
NVNT	b	2412	Ant1	2388.156	-45.91	4.85	-	54.20	Peak	74	Pass
NVNT	b	2412	Ant1	2386.752	-54.87	4.85	0	45.24	Average	54	Pass
NVNT	b	2412	Ant1	2390	-48.39	4.85	-	51.72	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56.35	4.85	0	43.76	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-47.71	4.85	-	52.40	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.26	4.85	0	45.85	Average	54	Pass
NVNT	b	2462	Ant1	2485.849	-44.54	4.85	-	55.57	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-54.26	4.85	0	45.85	Average	54	Pass
NVNT	b	2462	Ant1	2500	-50.72	4.85	-	49.39	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.92	4.85	0	42.19	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.3	4.85	-	49.81	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.93	4.85	0	41.18	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-44.44	4.85	-	55.67	Peak	74	Pass
NVNT	g	2412	Ant1	2388.975	-54.58	4.85	0	45.53	Average	54	Pass
NVNT	g	2412	Ant1	2390	-44.6	4.85	-	55.51	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-54.54	4.85	0	45.57	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-46.75	4.85	-	53.36	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-54.29	4.85	0	45.82	Average	54	Pass
NVNT	g	2462	Ant1	2483.941	-40.83	4.85	-	59.28	Peak	74	Pass
NVNT	g	2462	Ant1	2483.57	-53.69	4.85	0	46.42	Average	54	Pass
NVNT	g	2462	Ant1	2500	-48.72	4.85	-	51.39	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.73	4.85	0	42.38	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-49.9	4.85	-	50.21	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.29	4.85	0	41.82	Average	54	Pass
NVNT	n20	2412	Ant1	2385.933	-46.48	4.85	-	53.63	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.794	-55.38	4.85	0	44.73	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-47.55	4.85	-	52.56	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-56.39	4.85	0	43.72	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-46.07	4.85	-	54.04	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-54.71	4.85	0	45.40	Average	54	Pass
NVNT	n20	2462	Ant1	2483.676	-43.65	4.85	-	56.46	Peak	74	Pass
NVNT	n20	2462	Ant1	2484.1	-54.5	4.85	0	45.61	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-49.93	4.85	-	50.18	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.54	4.85	0	42.57	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-51.55	4.85	-	48.56	Peak	74	Pass
NVNT	n40	2422	Ant1	2310	-58.14	4.85	0.13	42.10	Average	54	Pass
NVNT	n40	2422	Ant1	2389.52	-43.09	4.85	-	57.02	Peak	74	Pass

NVNT	n40	2422	Ant1	2389.52	-54.5	4.85	0.13	45.74	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-45.26	4.85	-	54.85	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-55.09	4.85	0.13	45.15	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-44.24	4.85	-	55.87	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-54.13	4.85	0.12	46.10	Average	54	Pass
NVNT	n40	2452	Ant1	2483.62	-41.53	4.85	-	58.58	Peak	74	Pass
NVNT	n40	2452	Ant1	2484.166	-53.29	4.85	0.12	46.94	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-49.09	4.85	-	51.02	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-57.47	4.85	0.12	42.76	Average	54	Pass

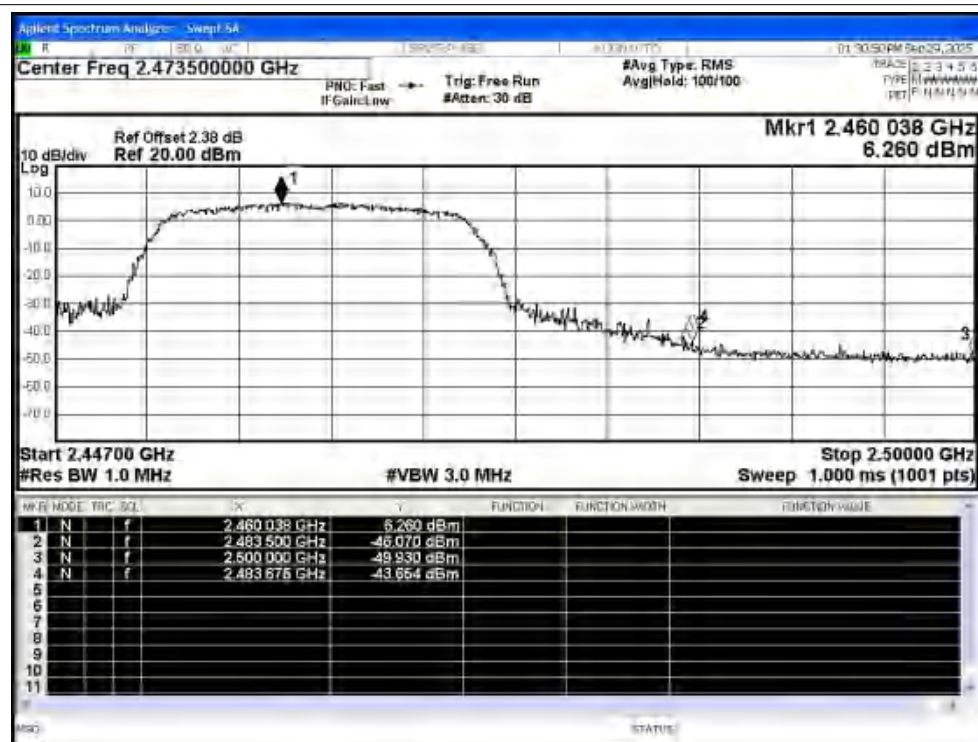
Restrict Band NVNT g 2462MHz Ant1 Peak



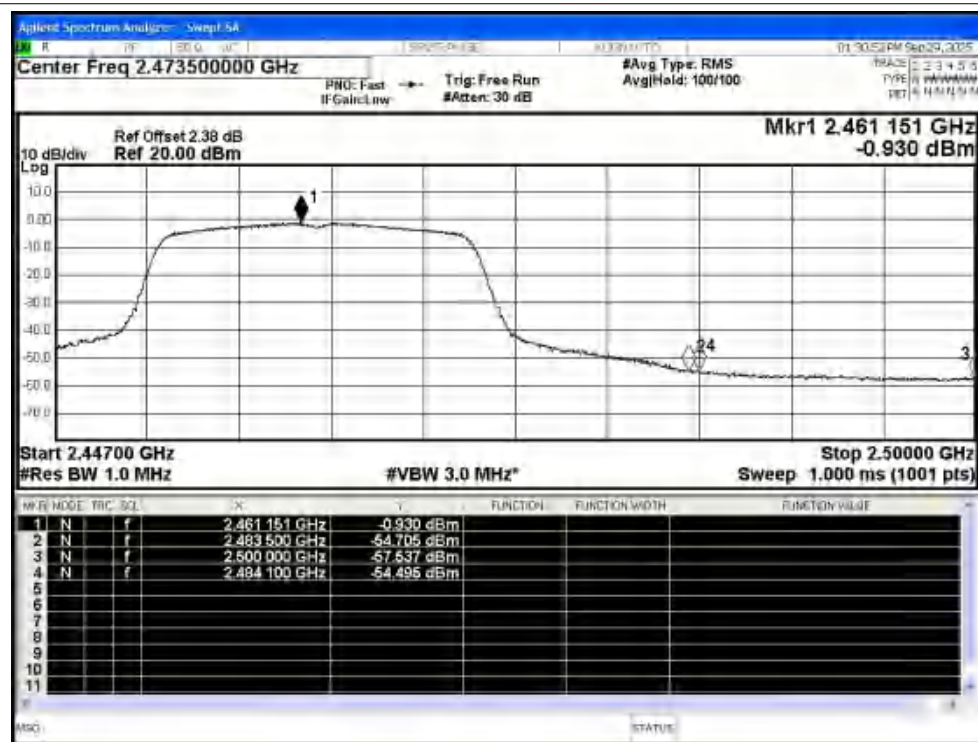
Restrict Band NVNT g 2462MHz Ant1 Average



Restrict Band NVNT n20 2462MHz Ant1 Peak



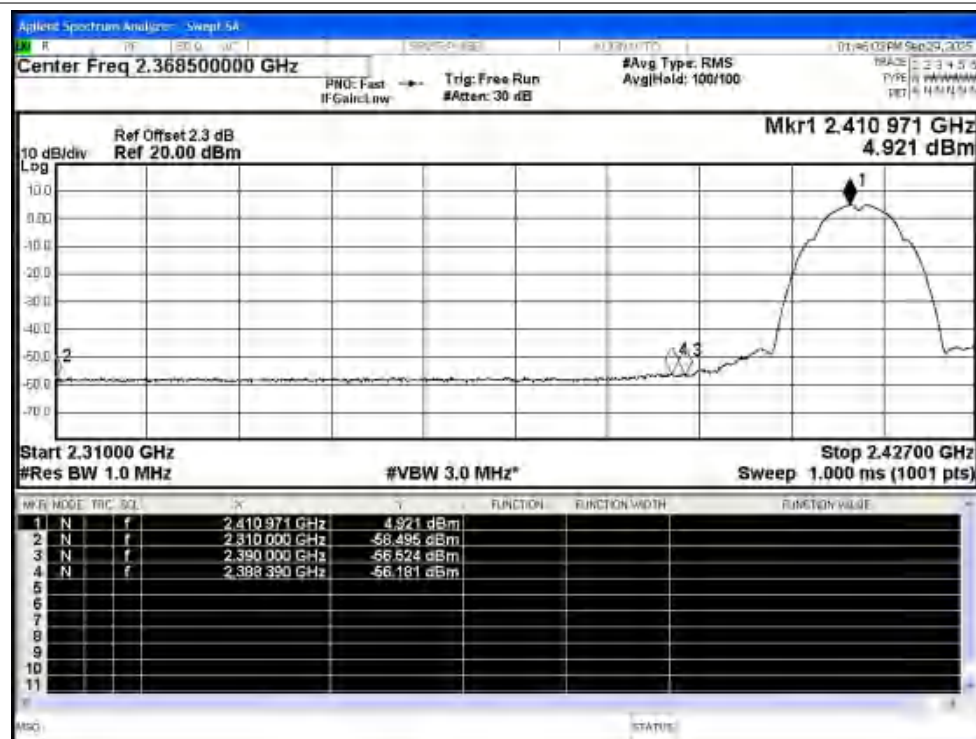
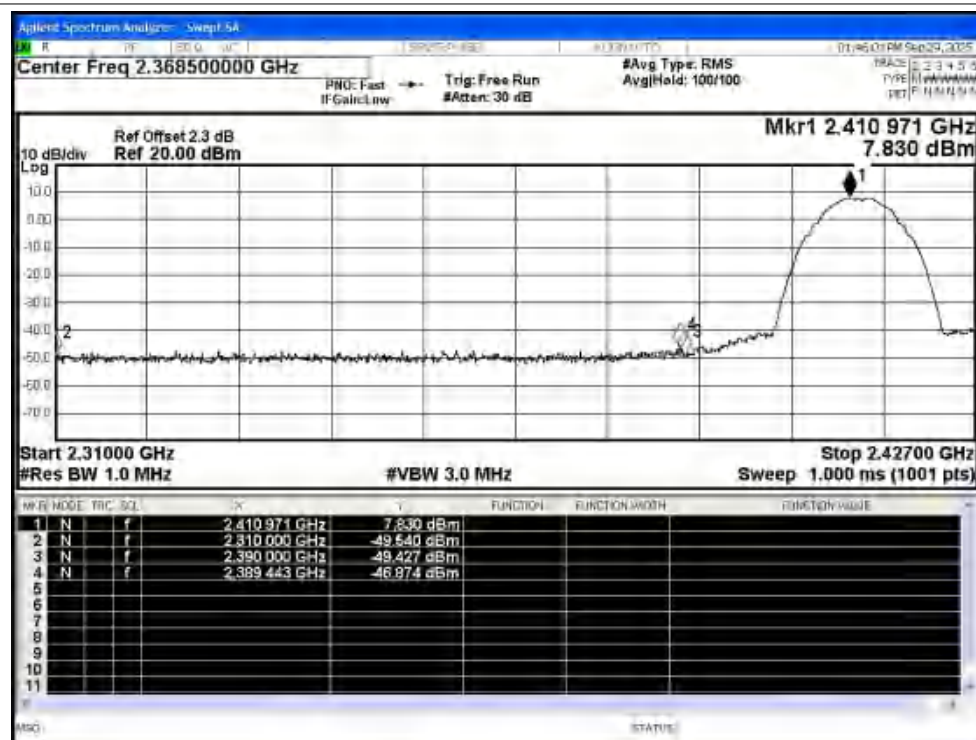
Restrict Band NVNT n20 2462MHz Ant1 Average



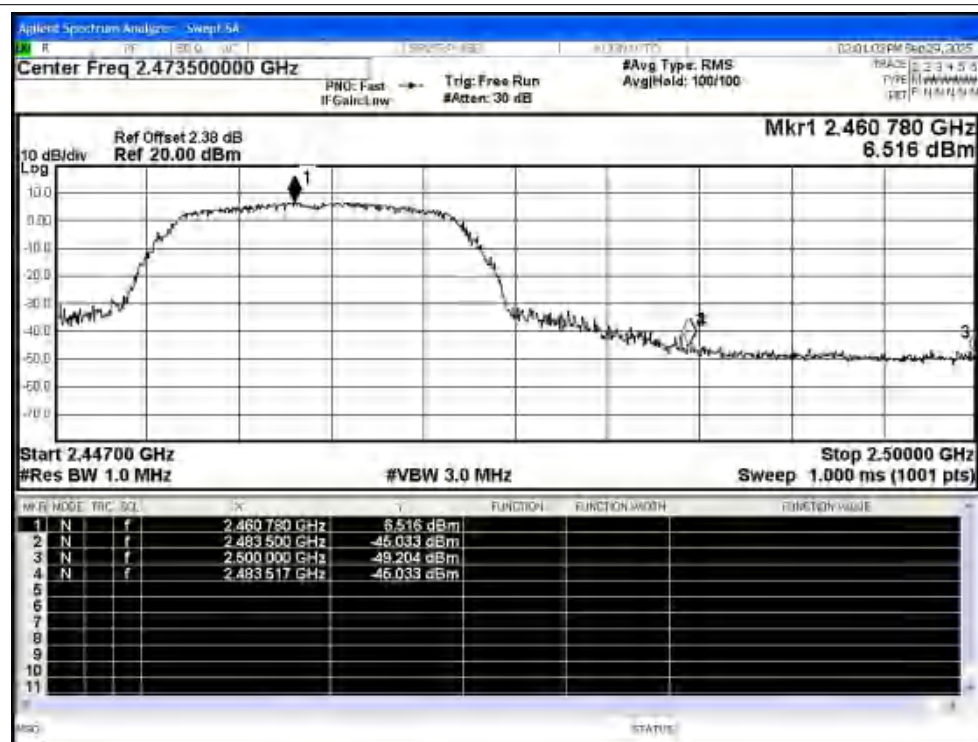
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant2	2310	-49.54	2.35	-	48.07	Peak	74	Pass
NVNT	b	2412	Ant2	2310	-58.5	2.35	0	39.11	Average	54	Pass
NVNT	b	2412	Ant2	2389.443	-46.87	2.35	-	50.74	Peak	74	Pass
NVNT	b	2412	Ant2	2388.39	-56.18	2.35	0	41.43	Average	54	Pass
NVNT	b	2412	Ant2	2390	-49.43	2.35	-	48.18	Peak	74	Pass
NVNT	b	2412	Ant2	2390	-56.52	2.35	0	41.09	Average	54	Pass
NVNT	b	2462	Ant2	2483.5	-47.56	2.35	-	50.05	Peak	74	Pass
NVNT	b	2462	Ant2	2483.5	-55.8	2.35	0	41.81	Average	54	Pass
NVNT	b	2462	Ant2	2488.764	-45.68	2.35	-	51.93	Peak	74	Pass
NVNT	b	2462	Ant2	2483.676	-55.45	2.35	0	42.16	Average	54	Pass
NVNT	b	2462	Ant2	2500	-47.99	2.35	-	49.62	Peak	74	Pass
NVNT	b	2462	Ant2	2500	-57.46	2.35	0	40.15	Average	54	Pass
NVNT	g	2412	Ant2	2310	-49.9	2.35	-	47.71	Peak	74	Pass
NVNT	g	2412	Ant2	2310	-58.34	2.35	0	39.27	Average	54	Pass
NVNT	g	2412	Ant2	2388.858	-46.71	2.35	-	50.90	Peak	74	Pass
NVNT	g	2412	Ant2	2388.858	-55.5	2.35	0	42.11	Average	54	Pass
NVNT	g	2412	Ant2	2390	-48.22	2.35	-	49.39	Peak	74	Pass
NVNT	g	2412	Ant2	2390	-55.69	2.35	0	41.92	Average	54	Pass
NVNT	g	2462	Ant2	2483.5	-45.03	2.35	-	52.58	Peak	74	Pass
NVNT	g	2462	Ant2	2483.5	-55.39	2.35	0	42.22	Average	54	Pass
NVNT	g	2462	Ant2	2483.517	-45.03	2.35	-	52.58	Peak	74	Pass
NVNT	g	2462	Ant2	2484.1	-54.35	2.35	0	43.26	Average	54	Pass
NVNT	g	2462	Ant2	2500	-49.2	2.35	-	48.41	Peak	74	Pass
NVNT	g	2462	Ant2	2500	-57.51	2.35	0	40.10	Average	54	Pass
NVNT	n20	2412	Ant2	2310	-50.51	2.35	-	47.10	Peak	74	Pass
NVNT	n20	2412	Ant2	2310	-58.11	2.35	0	39.50	Average	54	Pass
NVNT	n20	2412	Ant2	2386.635	-47.19	2.35	-	50.42	Peak	74	Pass
NVNT	n20	2412	Ant2	2388.858	-56.13	2.35	0	41.48	Average	54	Pass
NVNT	n20	2412	Ant2	2390	-47.33	2.35	-	50.28	Peak	74	Pass
NVNT	n20	2412	Ant2	2390	-56.17	2.35	0	41.44	Average	54	Pass
NVNT	n20	2462	Ant2	2483.5	-49.5	2.35	-	48.11	Peak	74	Pass
NVNT	n20	2462	Ant2	2483.5	-56.27	2.35	0	41.34	Average	54	Pass
NVNT	n20	2462	Ant2	2483.994	-43.59	2.35	-	54.02	Peak	74	Pass
NVNT	n20	2462	Ant2	2483.835	-55.43	2.35	0	42.18	Average	54	Pass
NVNT	n20	2462	Ant2	2500	-49.24	2.35	-	48.37	Peak	74	Pass
NVNT	n20	2462	Ant2	2500	-57.8	2.35	0	39.81	Average	54	Pass
NVNT	n40	2422	Ant2	2310	-51.01	2.35	-	46.60	Peak	74	Pass
NVNT	n40	2422	Ant2	2310	-58.2	2.35	0.12	39.53	Average	54	Pass
NVNT	n40	2422	Ant2	2385.26	-46.32	2.35	-	51.29	Peak	74	Pass
NVNT	n40	2422	Ant2	2389.946	-55.18	2.35	0.12	42.55	Average	54	Pass

NVNT	n40	2422	Ant2	2390	-47.93	2.35	-	49.68	Peak	74	Pass
NVNT	n40	2422	Ant2	2390	-55.18	2.35	0.12	42.55	Average	54	Pass
NVNT	n40	2452	Ant2	2483.5	-47.58	2.35	-	50.03	Peak	74	Pass
NVNT	n40	2452	Ant2	2483.5	-55.16	2.35	0.13	42.58	Average	54	Pass
NVNT	n40	2452	Ant2	2484.4	-44.84	2.35	-	52.77	Peak	74	Pass
NVNT	n40	2452	Ant2	2484.244	-54.24	2.35	0.13	43.50	Average	54	Pass
NVNT	n40	2452	Ant2	2500	-50.27	2.35	-	47.34	Peak	74	Pass
NVNT	n40	2452	Ant2	2500	-57.97	2.35	0.13	39.77	Average	54	Pass

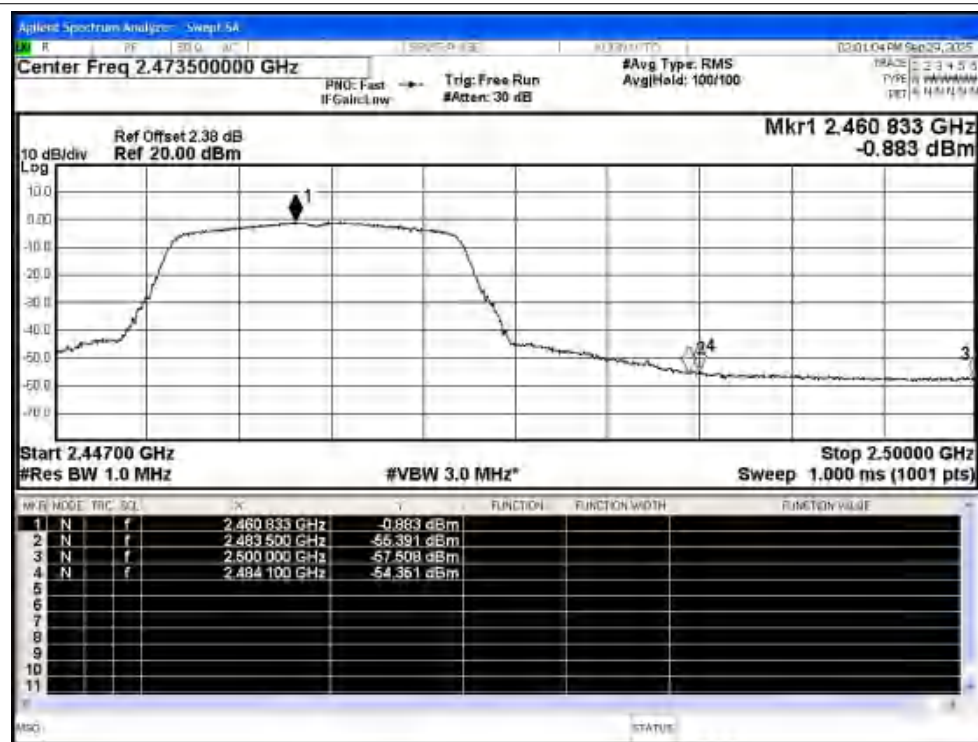
Restrict Band NVNT b 2412MHz Ant2 Peak



Restrict Band NVNT g 2462MHz Ant2 Peak



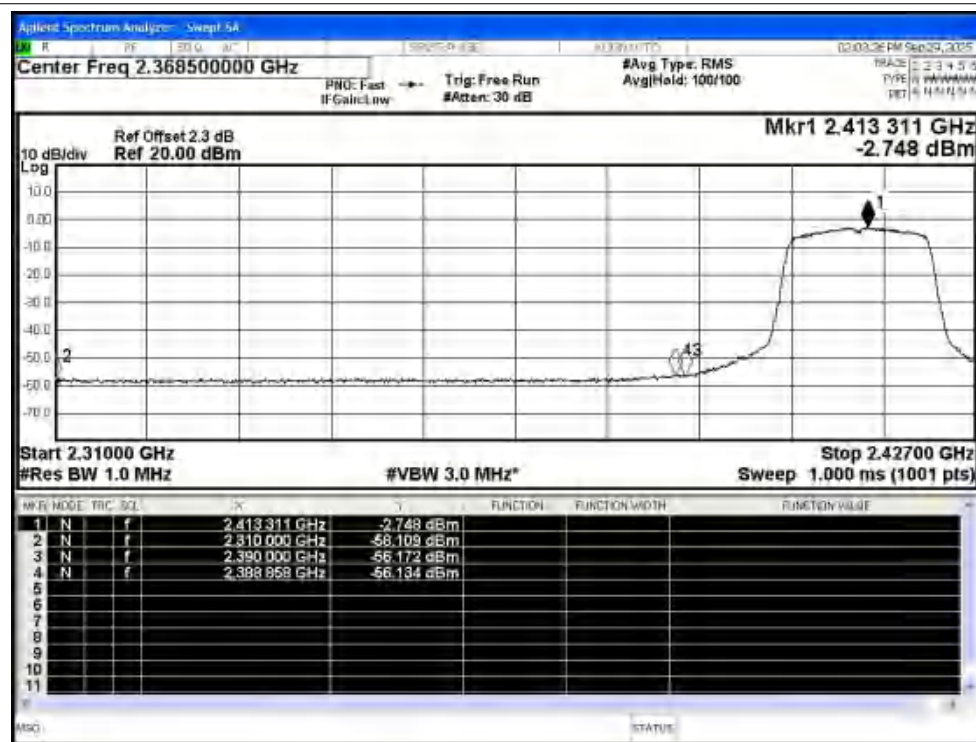
Restrict Band NVNT g 2462MHz Ant2 Average



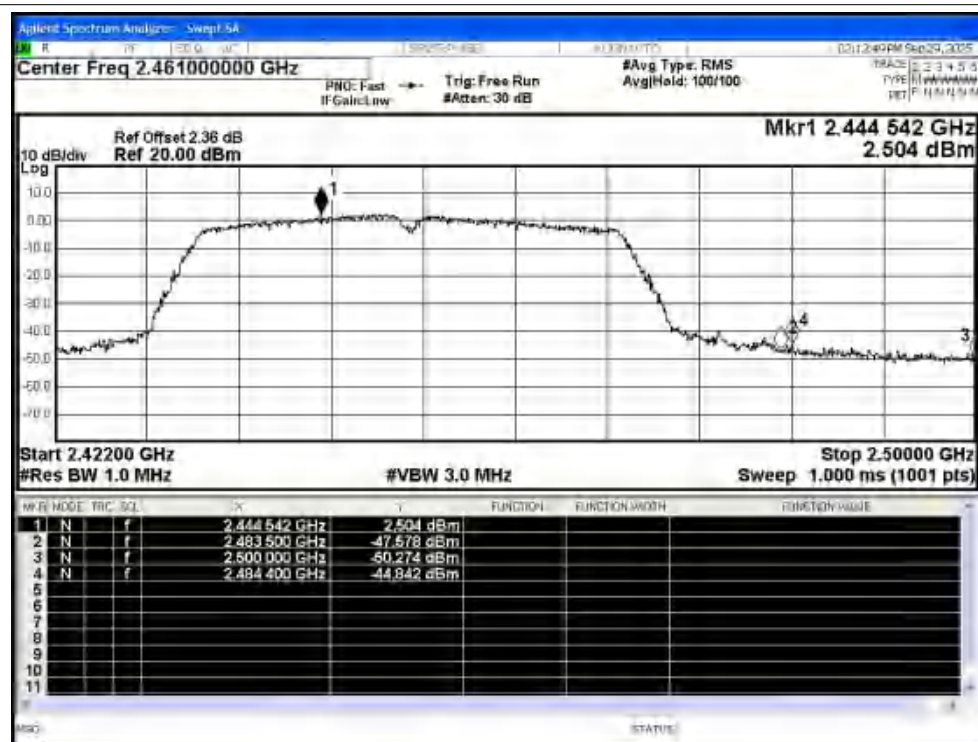
Restrict Band NVNT n20 2412MHz Ant2 Peak



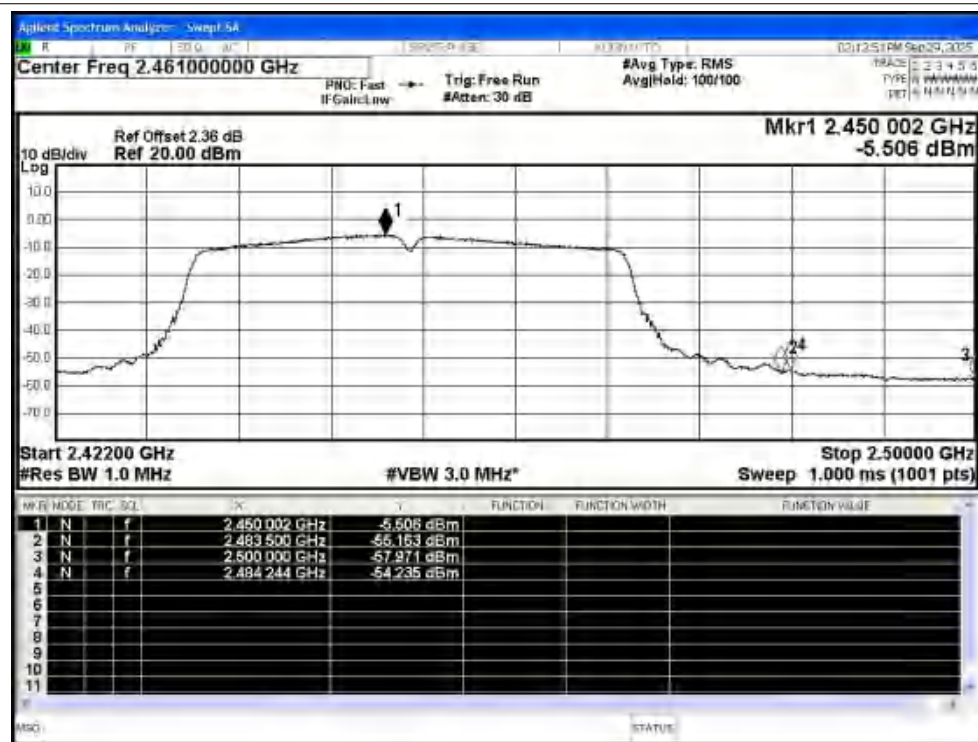
Restrict Band NVNT n20 2412MHz Ant2 Average



Restrict Band NVNT n40 2452MHz Ant2 Peak



Restrict Band NVNT n40 2452MHz Ant2 Average



MIMO

Condition	Mode	Frequency (MHz)	Ant1 Power (dBm)	Ant2 Power (dBm)	SUM	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	2412	-49.9	-50.51	-47.18	6.79	54.86	Peak	74	Pass
NVNT	n20	2412	-58.29	-58.11	-55.19	6.79	46.86	Average	54	Pass
NVNT	n20	2412	-46.48	-47.19	-43.81	6.79	58.24	Peak	74	Pass
NVNT	n20	2412	-55.38	-56.13	-52.73	6.79	49.32	Average	54	Pass
NVNT	n20	2412	-47.55	-47.33	-44.43	6.79	57.62	Peak	74	Pass
NVNT	n20	2412	-56.39	-56.17	-53.27	6.79	48.78	Average	54	Pass
NVNT	n20	2462	-46.07	-49.5	-44.44	6.79	57.60	Peak	74	Pass
NVNT	n20	2462	-54.71	-56.27	-52.41	6.79	49.64	Average	54	Pass
NVNT	n20	2462	-43.65	-43.59	-40.61	6.79	61.44	Peak	74	Pass
NVNT	n20	2462	-54.5	-55.43	-51.93	6.79	50.12	Average	54	Pass
NVNT	n20	2462	-49.93	-49.24	-46.56	6.79	55.48	Peak	74	Pass
NVNT	n20	2462	-57.54	-57.8	-54.66	6.79	47.39	Average	54	Pass
NVNT	n40	2422	-51.55	-51.01	-48.26	6.79	53.78	Peak	74	Pass
NVNT	n40	2422	-58.14	-58.2	-55.16	6.79	46.89	Average	54	Pass
NVNT	n40	2422	-43.09	-46.32	-41.40	6.79	60.64	Peak	74	Pass
NVNT	n40	2422	-54.5	-55.18	-51.82	6.79	50.23	Average	54	Pass
NVNT	n40	2422	-45.26	-47.93	-43.38	6.79	58.66	Peak	74	Pass
NVNT	n40	2422	-55.09	-55.18	-52.12	6.79	49.92	Average	54	Pass
NVNT	n40	2452	-44.24	-47.58	-42.59	6.79	59.46	Peak	74	Pass
NVNT	n40	2452	-54.13	-55.16	-51.60	6.79	50.44	Average	54	Pass
NVNT	n40	2452	-41.53	-44.84	-39.87	6.79	62.18	Peak	74	Pass
NVNT	n40	2452	-53.29	-54.24	-50.73	6.79	51.32	Average	54	Pass
NVNT	n40	2452	-49.09	-50.27	-46.63	6.79	55.42	Peak	74	Pass
NVNT	n40	2452	-57.47	-57.97	-54.70	6.79	47.34	Average	54	Pass