

Appendix A

7.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	10.74	0.42	11.16	30	Pass
NVNT	b	2437	Ant1	10.97	0.17	11.14	30	Pass
NVNT	b	2462	Ant1	10.96	0.17	11.13	30	Pass
NVNT	g	2412	Ant1	9.36	1.78	11.14	30	Pass
NVNT	g	2437	Ant1	10.16	0.97	11.13	30	Pass
NVNT	g	2462	Ant1	10.41	0.71	11.12	30	Pass
NVNT	n20	2412	Ant1	9.46	1.67	11.13	30	Pass
NVNT	n20	2437	Ant1	11.03	0.1	11.13	30	Pass
NVNT	n20	2462	Ant1	11.14	0	11.14	30	Pass
NVNT	n40	2422	Ant1	10.54	0.58	11.12	30	Pass
NVNT	n40	2437	Ant1	10.7	0.43	11.13	30	Pass
NVNT	n40	2452	Ant1	10.52	0.61	11.13	30	Pass

7.2 6dB Bandwidth

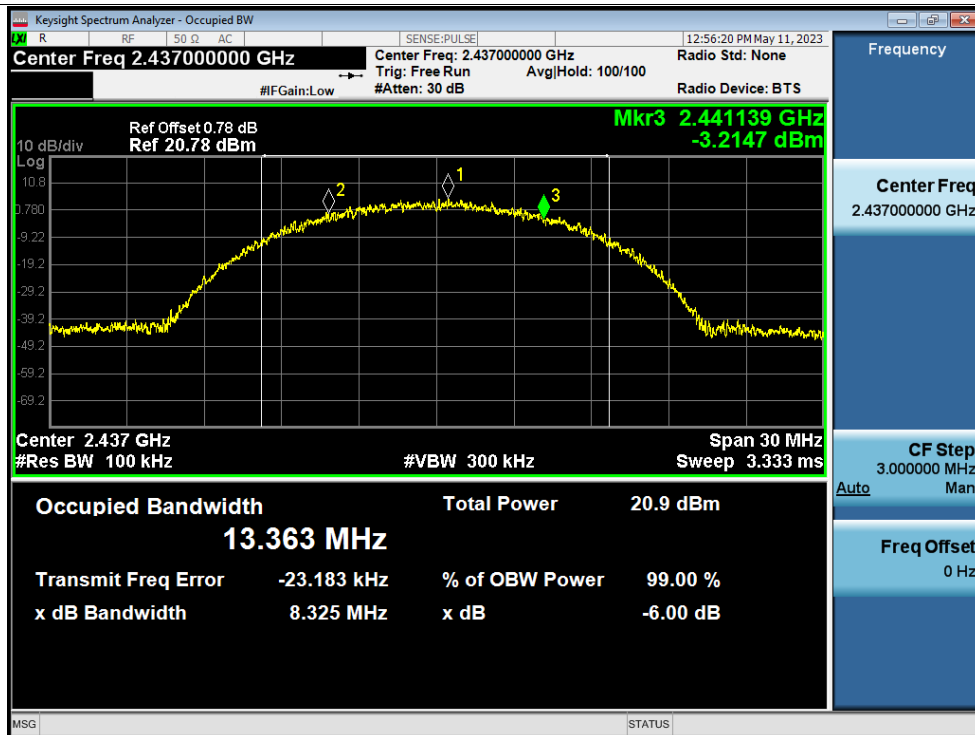
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.188	0.5	Pass
NVNT	b	2437	Ant1	8.325	0.5	Pass
NVNT	b	2462	Ant1	8.461	0.5	Pass
NVNT	g	2412	Ant1	16.406	0.5	Pass
NVNT	g	2437	Ant1	16.457	0.5	Pass
NVNT	g	2462	Ant1	16.418	0.5	Pass
NVNT	n20	2412	Ant1	16.389	0.5	Pass
NVNT	n20	2437	Ant1	17.19	0.5	Pass
NVNT	n20	2462	Ant1	17.201	0.5	Pass
NVNT	n40	2422	Ant1	35.699	0.5	Pass
NVNT	n40	2437	Ant1	35.63	0.5	Pass
NVNT	n40	2452	Ant1	34.817	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



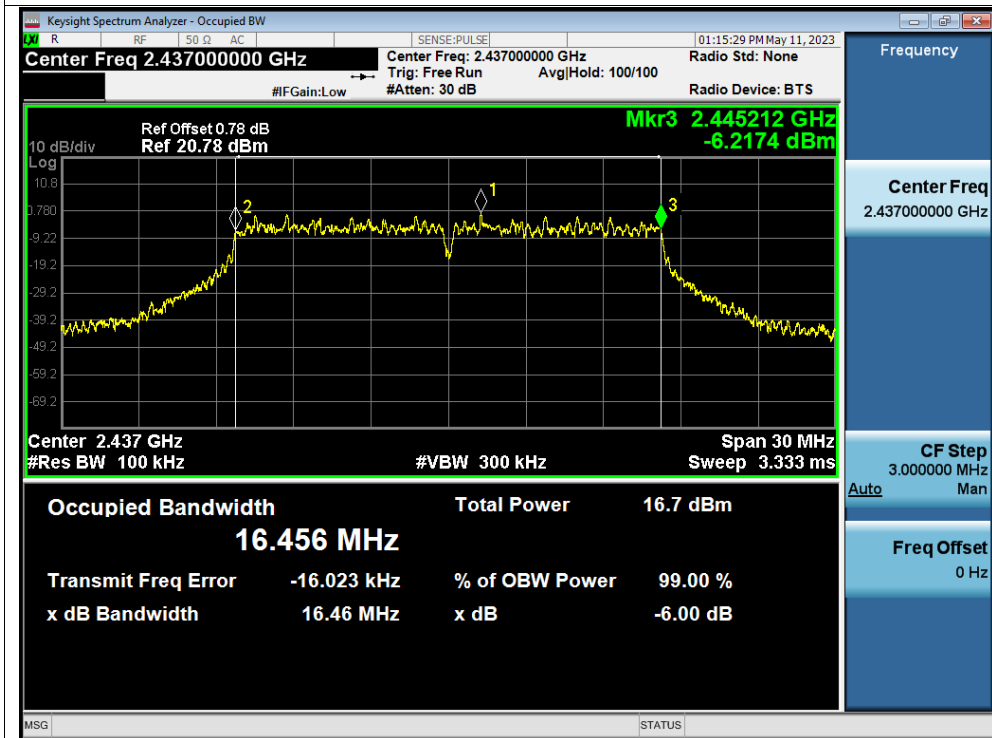
-6dB Bandwidth NVNT b 2462MHz Ant1



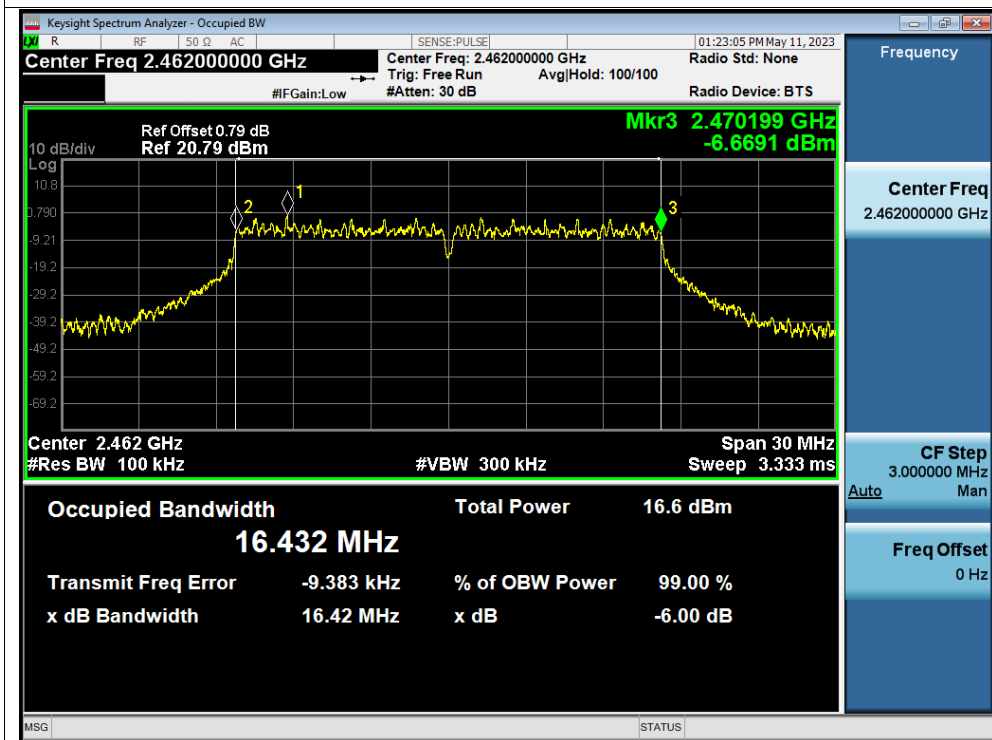
-6dB Bandwidth NVNT g 2412MHz Ant1



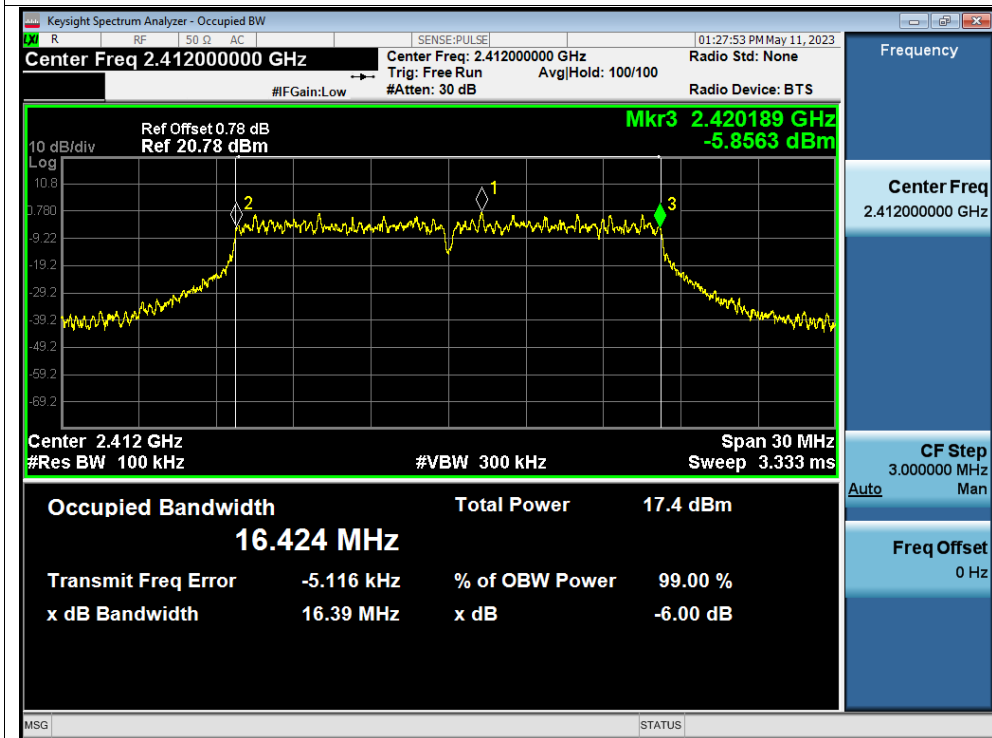
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



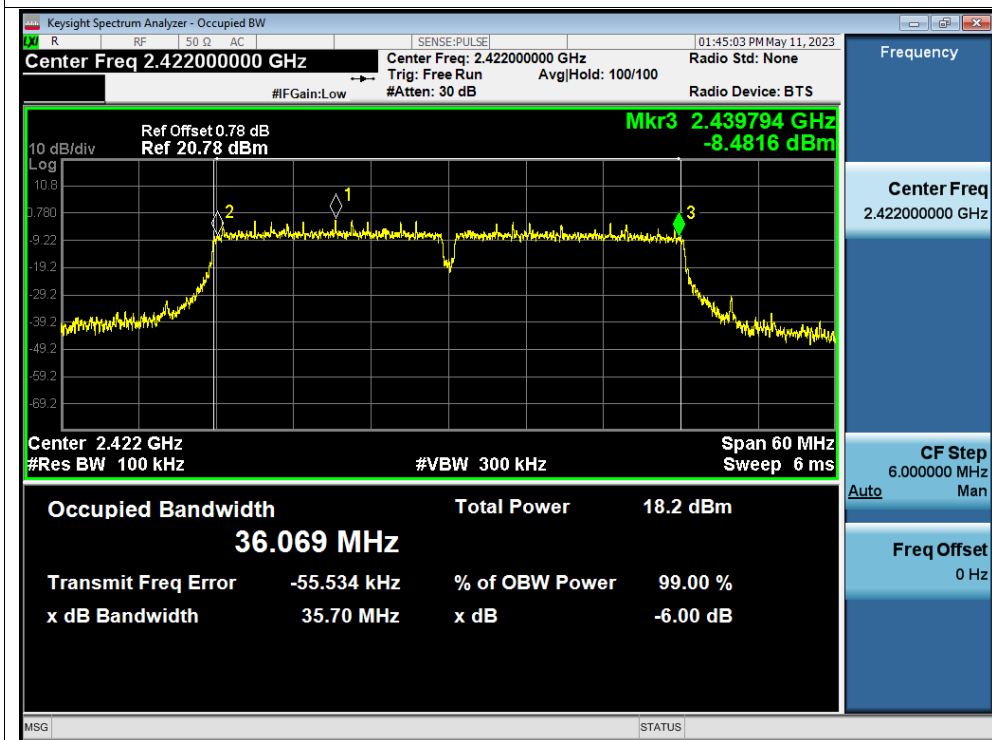
-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

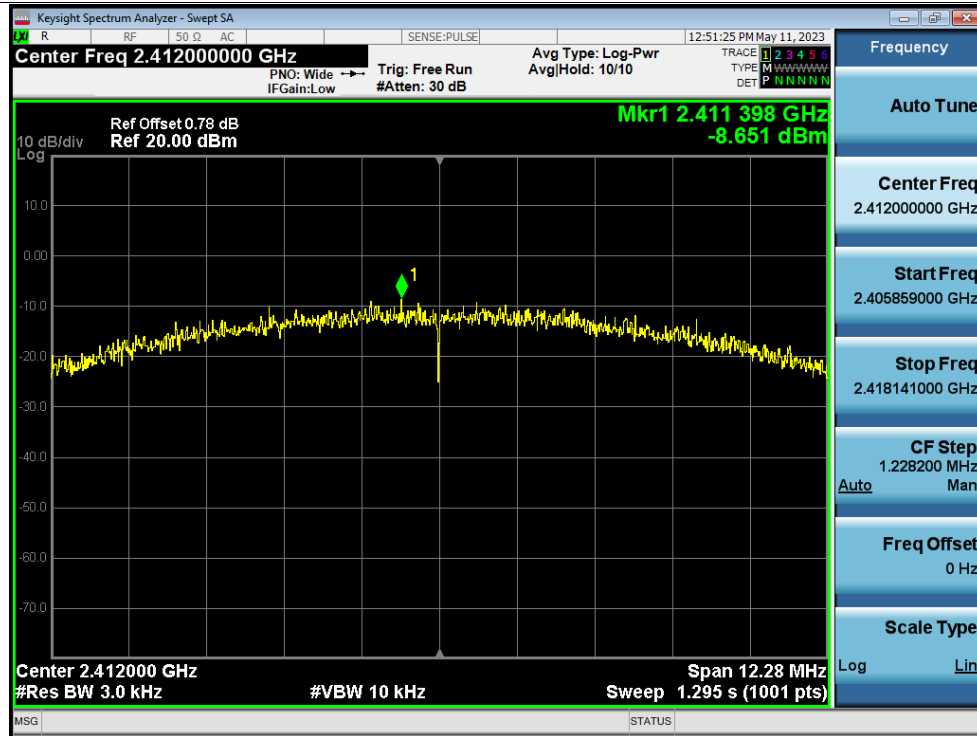


7.3 Maximum Power Spectral Density Level

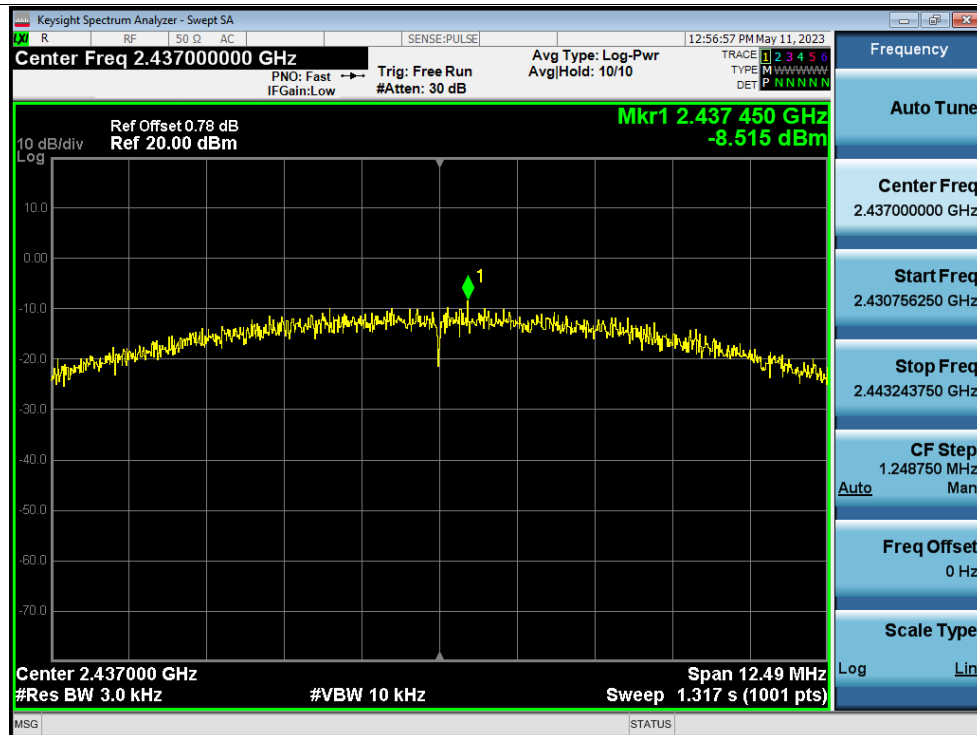
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.65	0	-8.65	8	Pass
NVNT	b	2437	Ant1	-8.52	0	-8.52	8	Pass
NVNT	b	2462	Ant1	-10.53	0	-10.53	8	Pass
NVNT	g	2412	Ant1	-12.89	0	-12.89	8	Pass
NVNT	g	2437	Ant1	-15.8	0	-15.8	8	Pass
NVNT	g	2462	Ant1	-14.8	0	-14.8	8	Pass
NVNT	n20	2412	Ant1	-13.61	0	-13.61	8	Pass
NVNT	n20	2437	Ant1	-13.25	0	-13.25	8	Pass
NVNT	n20	2462	Ant1	-12.38	0	-12.38	8	Pass
NVNT	n40	2422	Ant1	-15.84	0	-15.84	8	Pass
NVNT	n40	2437	Ant1	-17.08	0	-17.08	8	Pass
NVNT	n40	2452	Ant1	-15.31	0	-15.31	8	Pass

Test Graphs

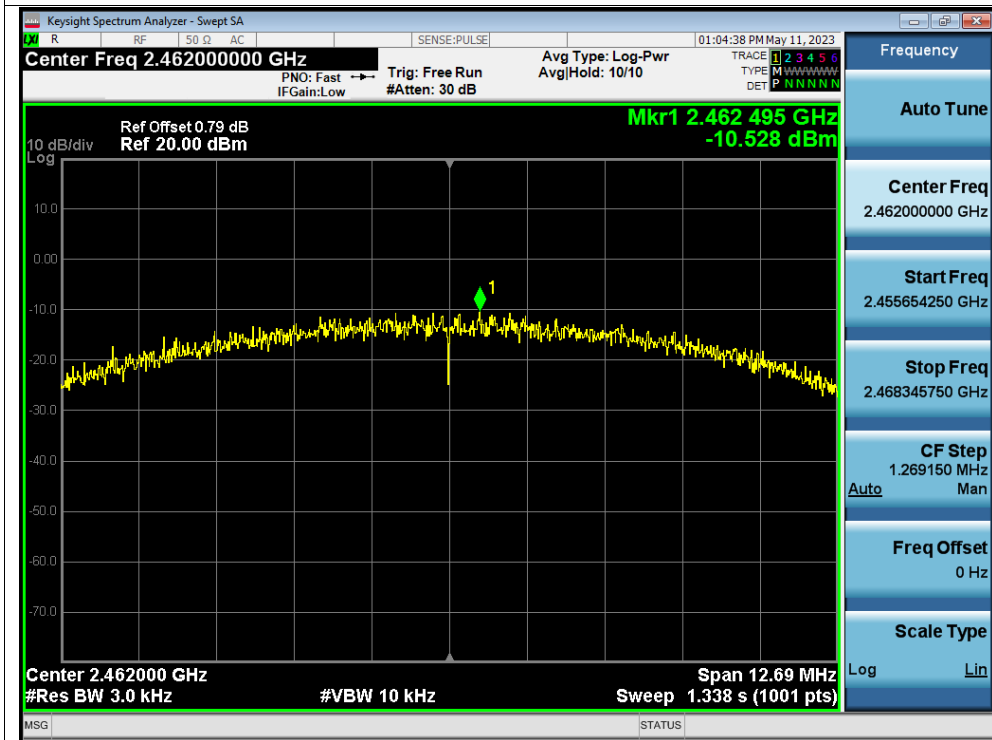
PSD NVNT b 2412MHz Ant1



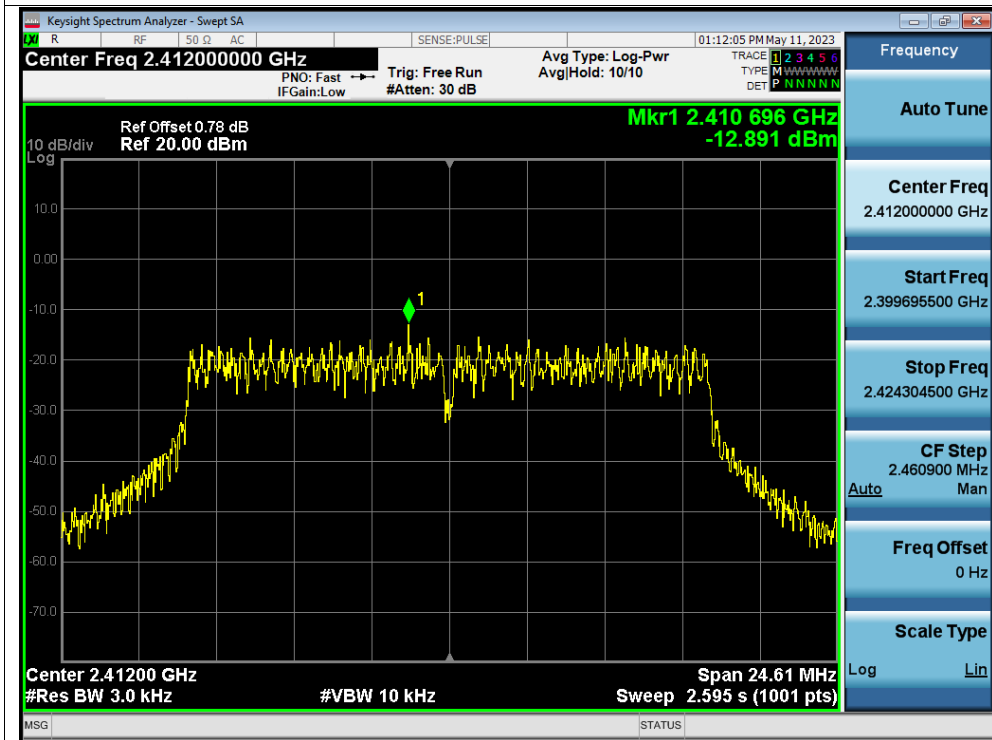
PSD NVNT b 2437MHz Ant1



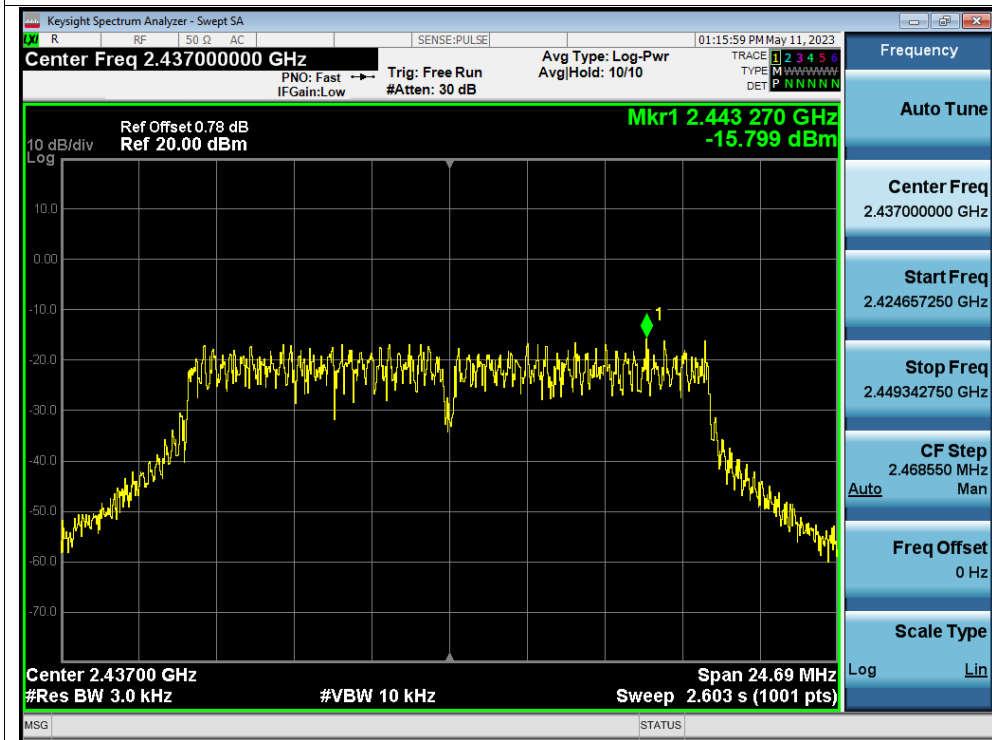
PSD NVNT b 2462MHz Ant1



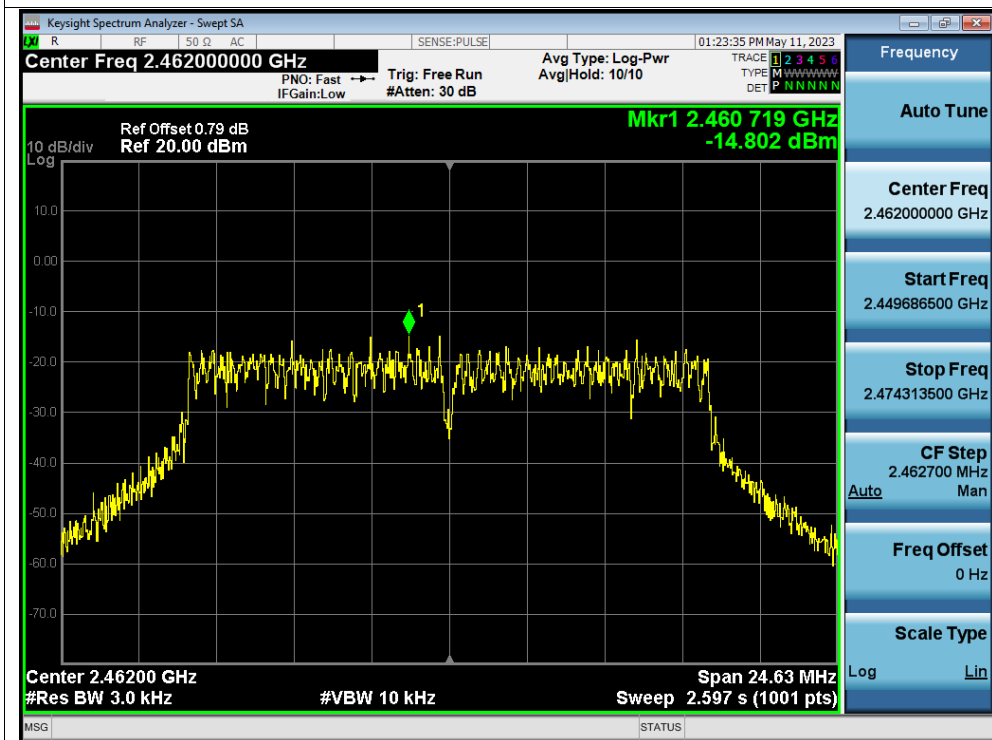
PSD NVNT g 2412MHz Ant1



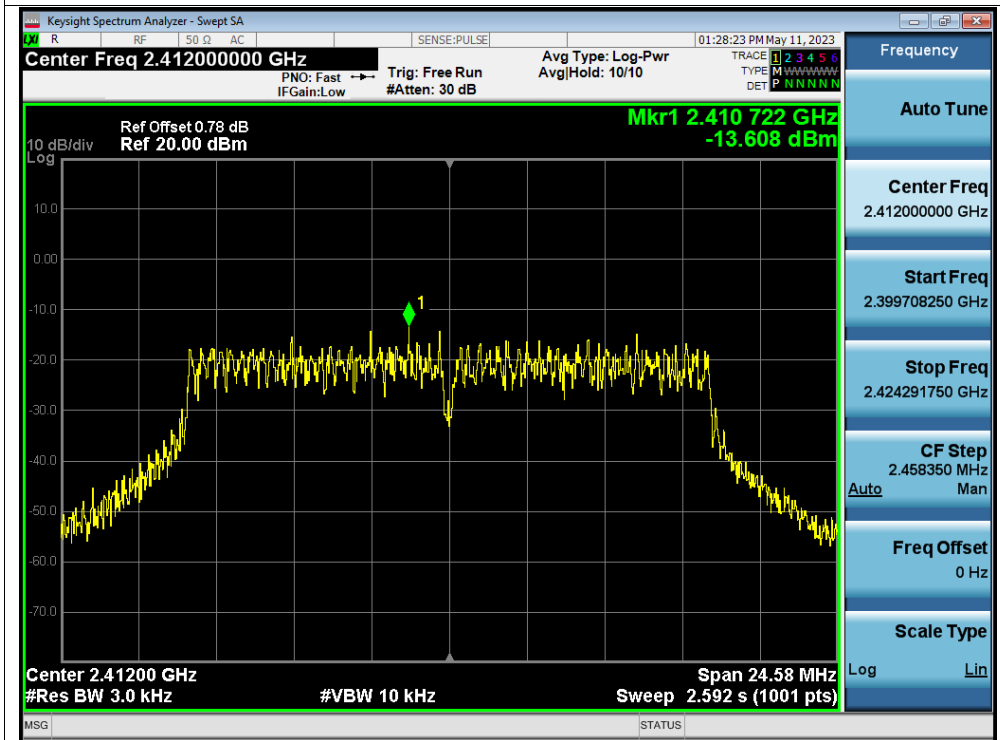
PSD NVNT g 2437MHz Ant1



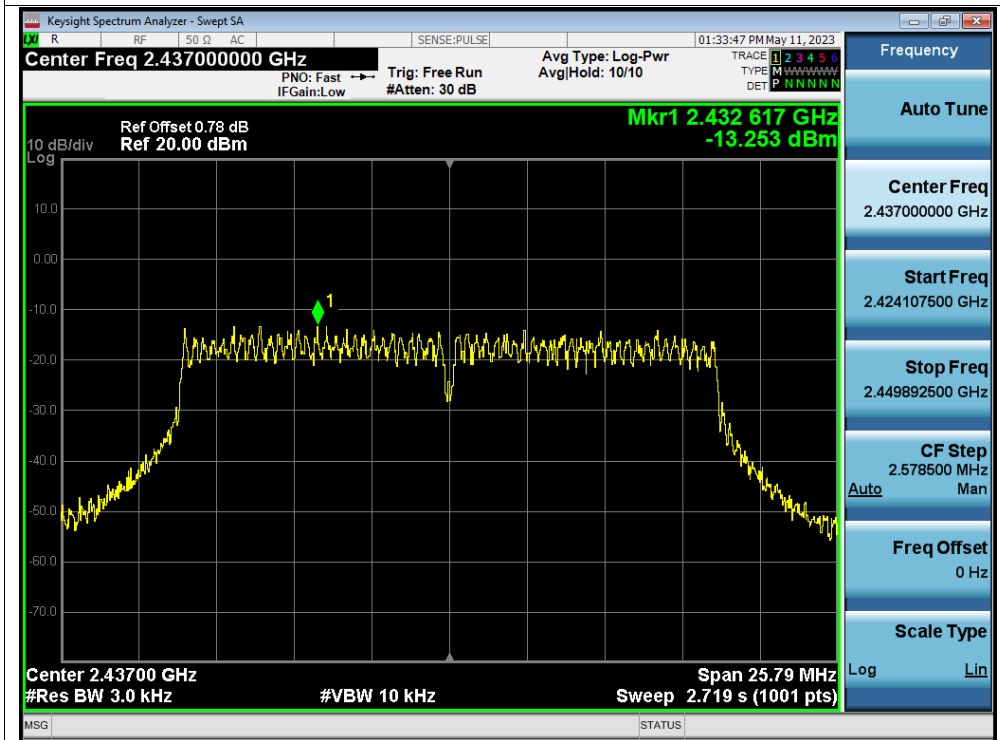
PSD NVNT g 2462MHz Ant1



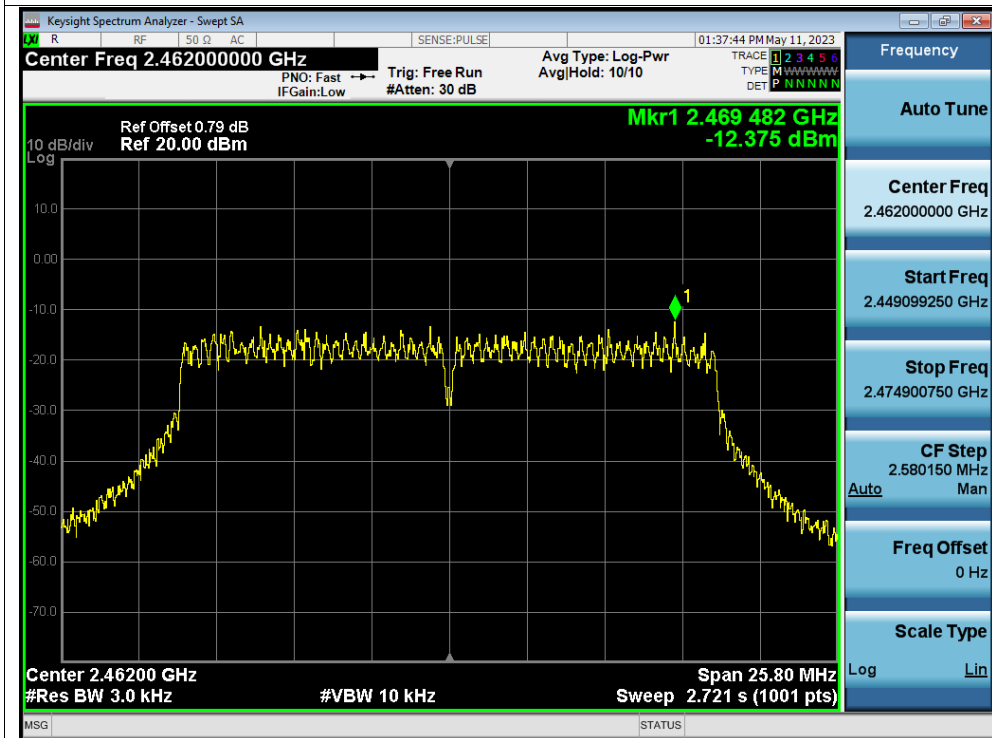
PSD NVNT n20 2412MHz Ant1



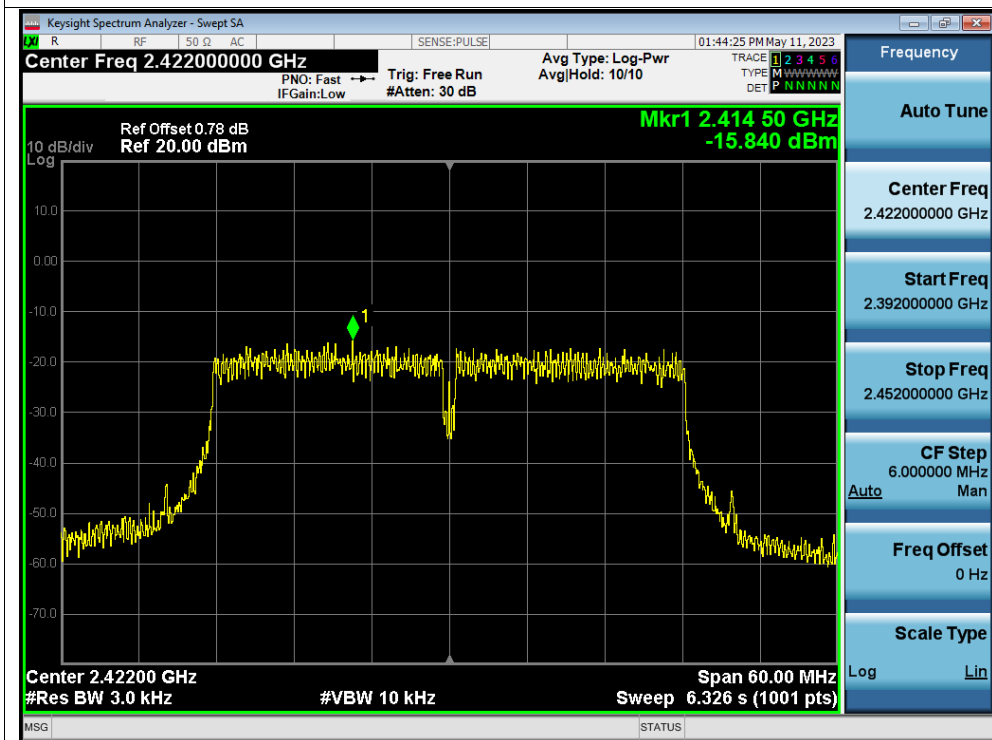
PSD NVNT n20 2437MHz Ant1



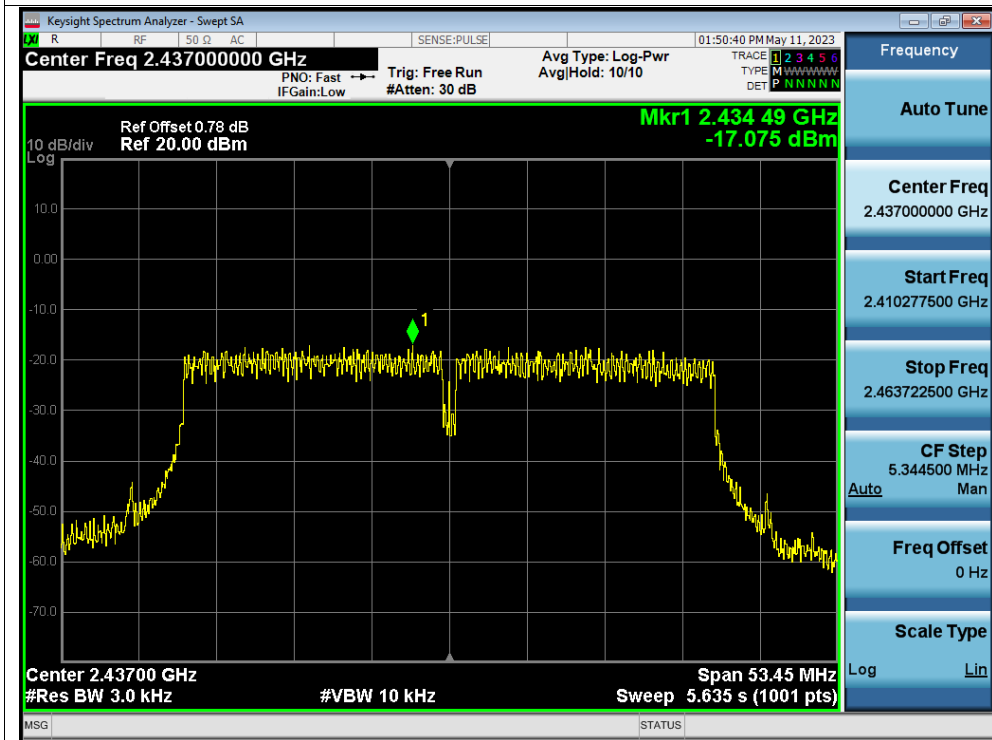
PSD NVNT n20 2462MHz Ant1



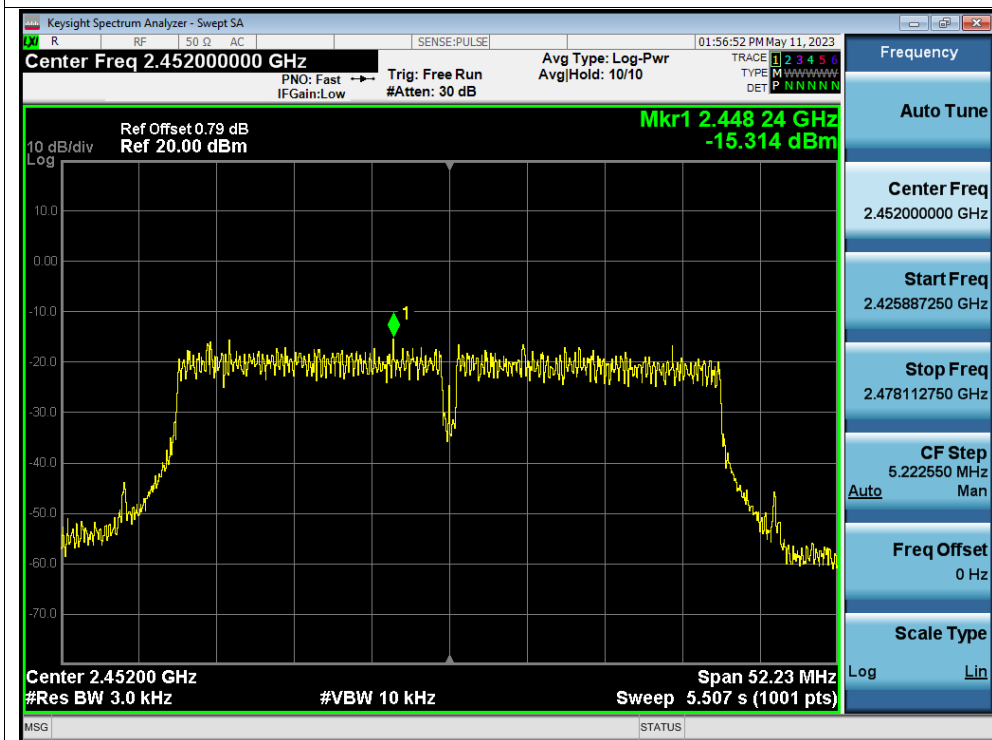
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

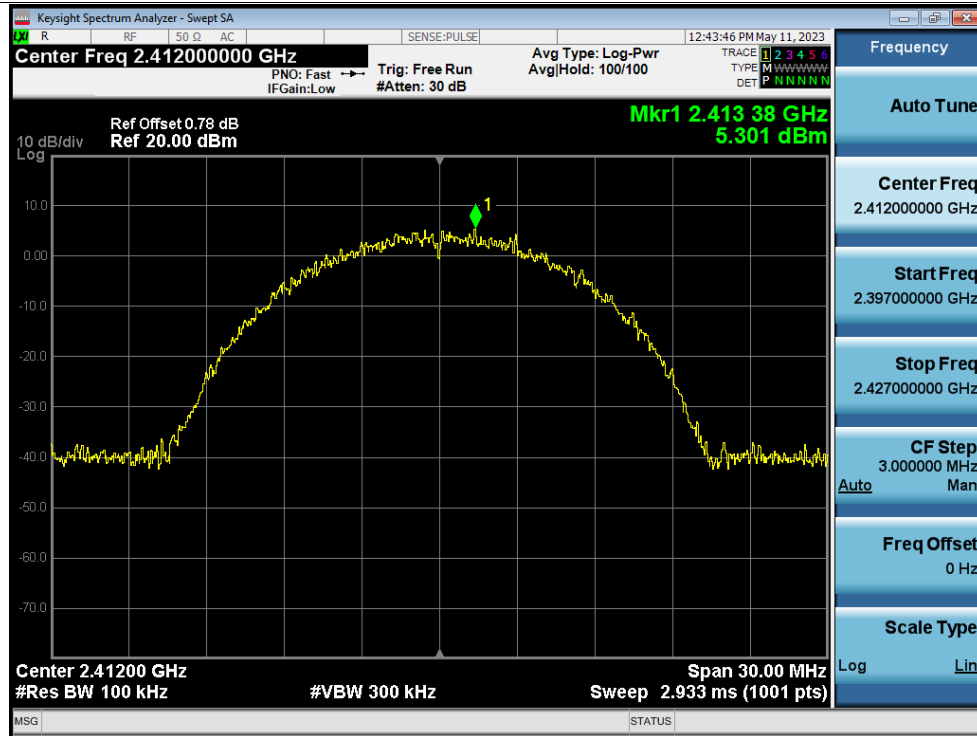


7.4 Band Edge

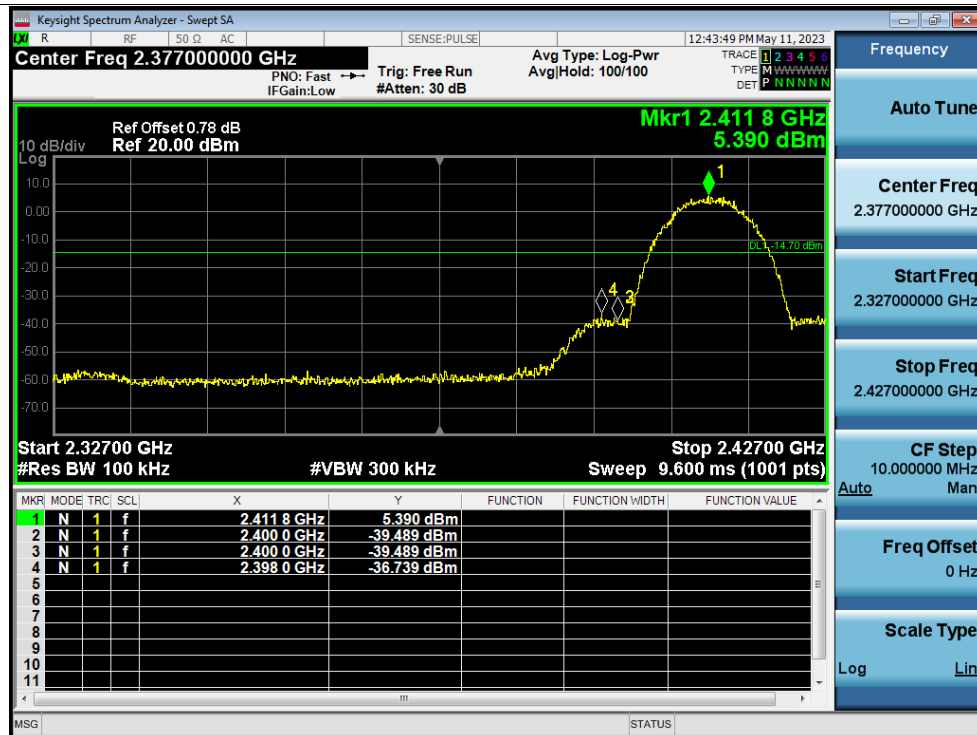
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.03	-20	Pass
NVNT	b	2462	Ant1	-61.73	-20	Pass
NVNT	g	2412	Ant1	-35.32	-20	Pass
NVNT	g	2462	Ant1	-49.16	-20	Pass
NVNT	n20	2412	Ant1	-33.51	-20	Pass
NVNT	n20	2462	Ant1	-46.04	-20	Pass
NVNT	n40	2422	Ant1	-32.03	-20	Pass
NVNT	n40	2452	Ant1	-41.51	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



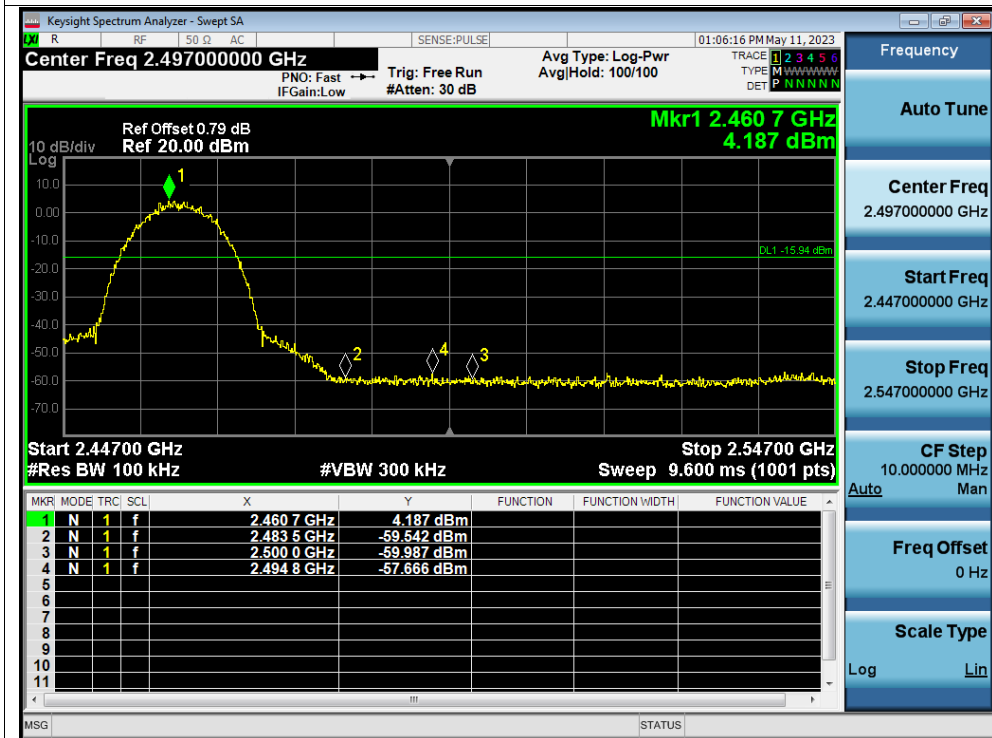
Band Edge NVNT b 2412MHz Ant1 Emission



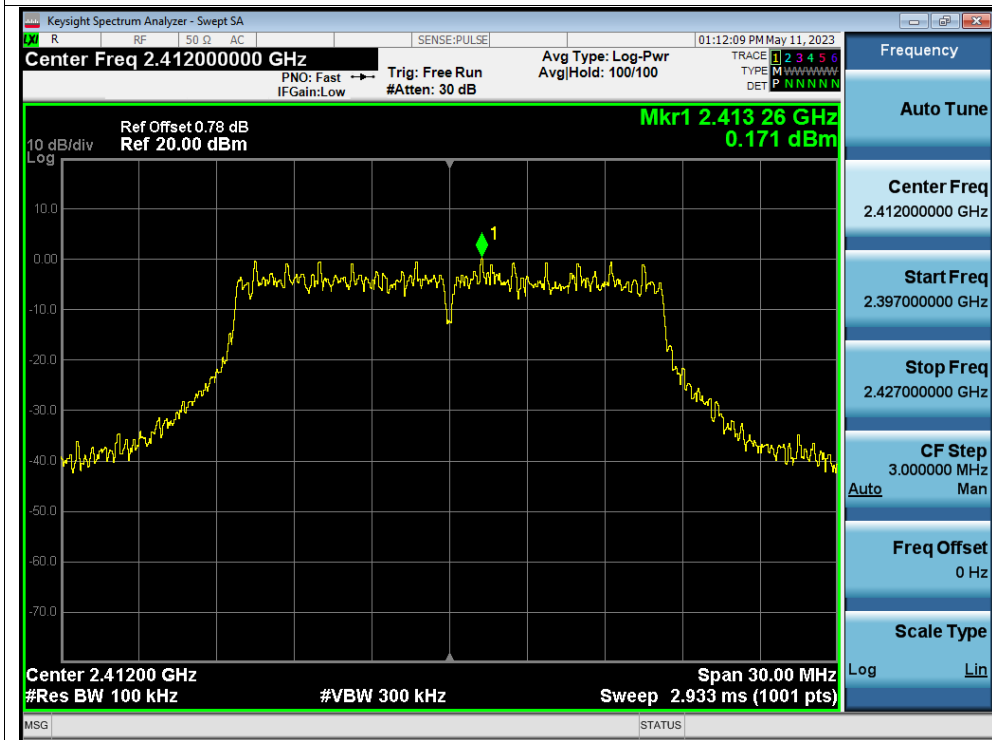
Band Edge NVNT b 2462MHz Ant1 Ref



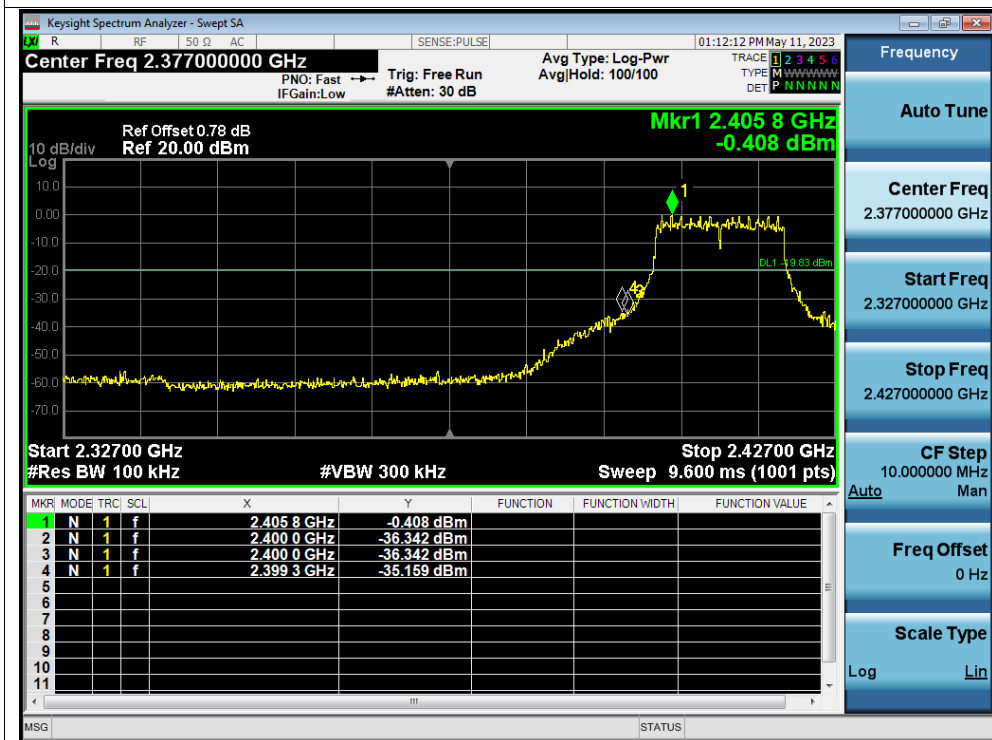
Band Edge NVNT b 2462MHz Ant1 Emission



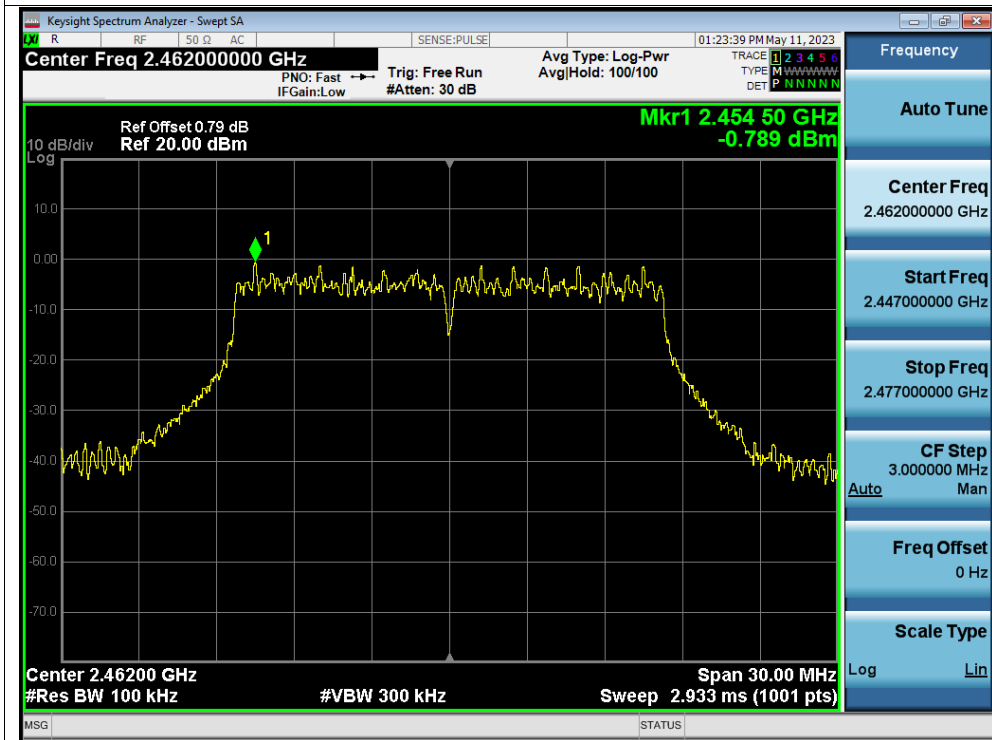
Band Edge NVNT g 2412MHz Ant1 Ref



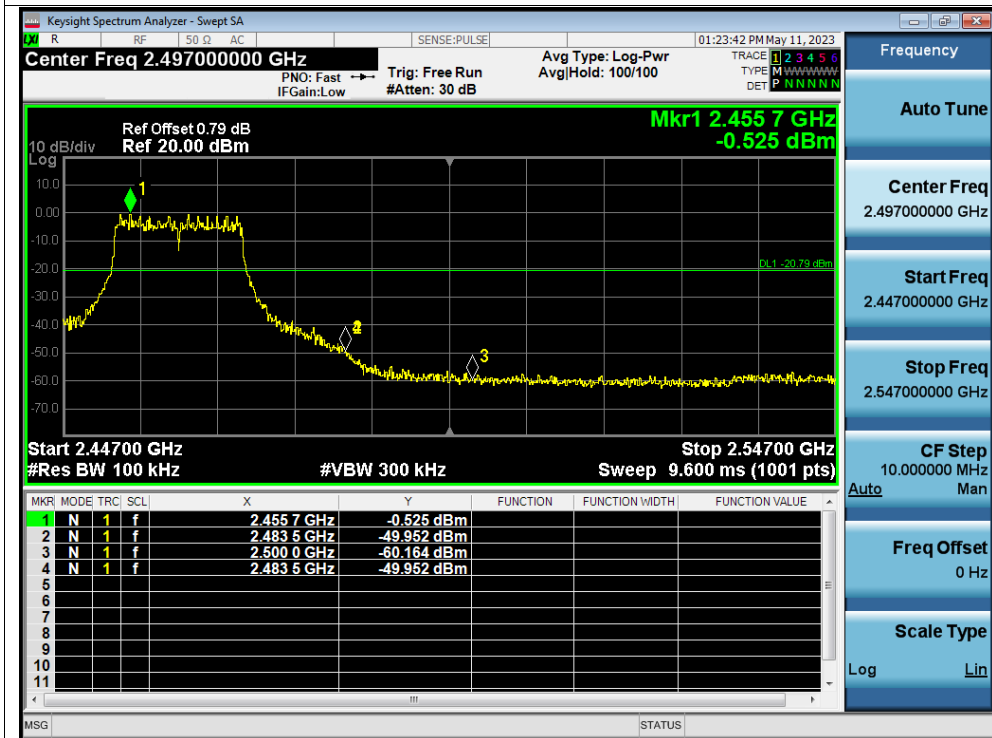
Band Edge NVNT g 2412MHz Ant1 Emission



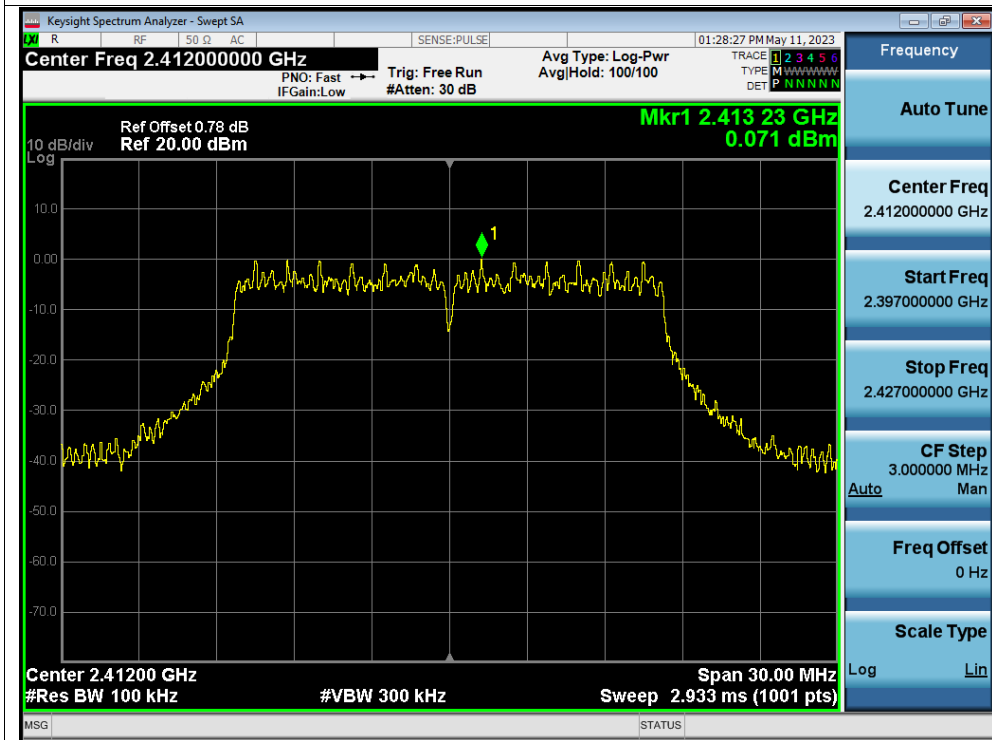
Band Edge NVNT g 2462MHz Ant1 Ref



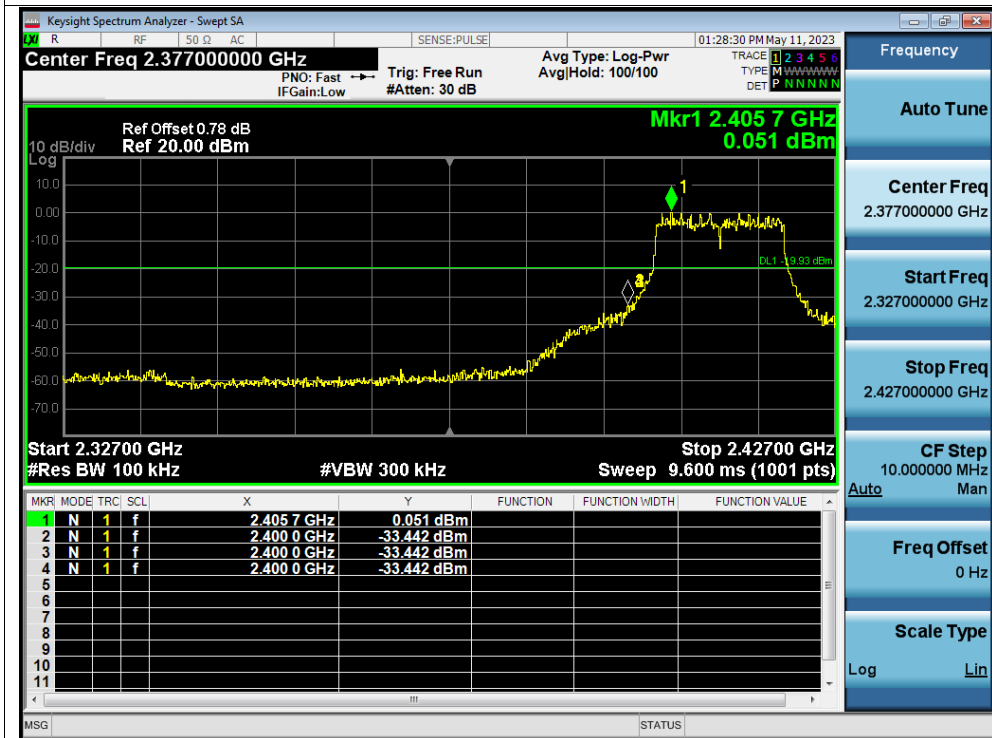
Band Edge NVNT g 2462MHz Ant1 Emission



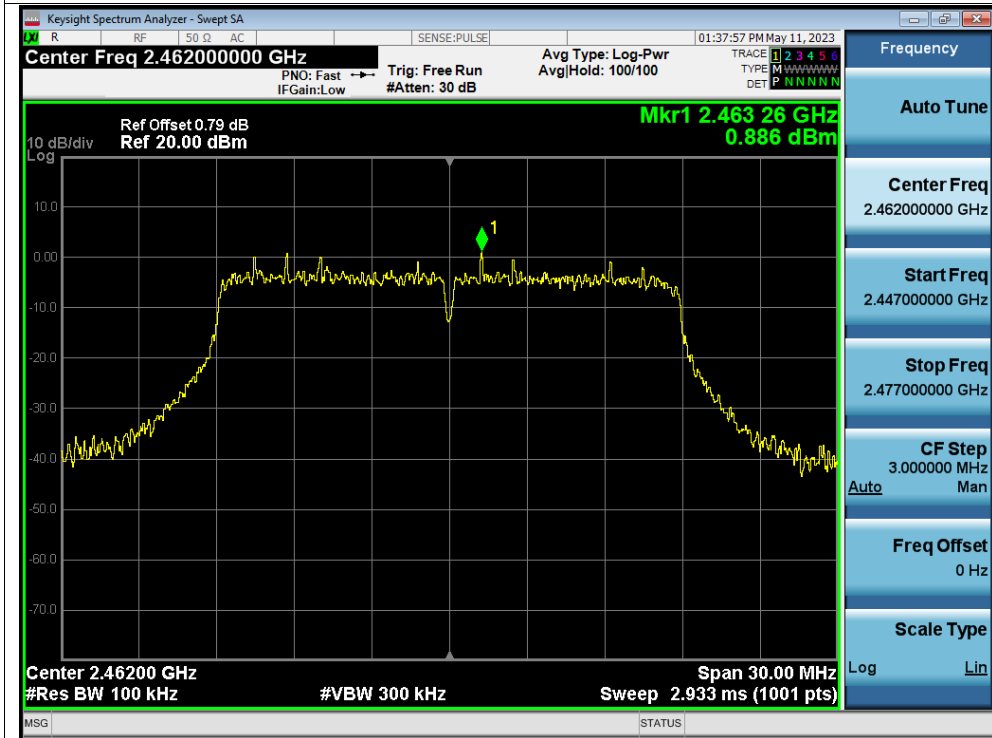
Band Edge NVNT n20 2412MHz Ant1 Ref



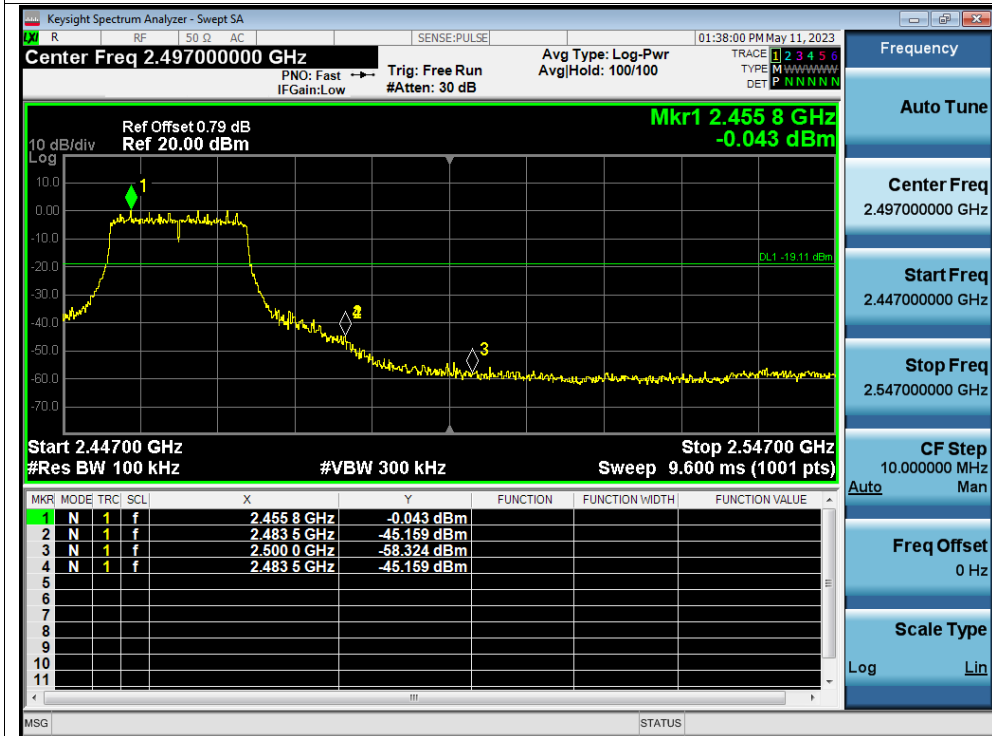
Band Edge NVNT n20 2412MHz Ant1 Emission



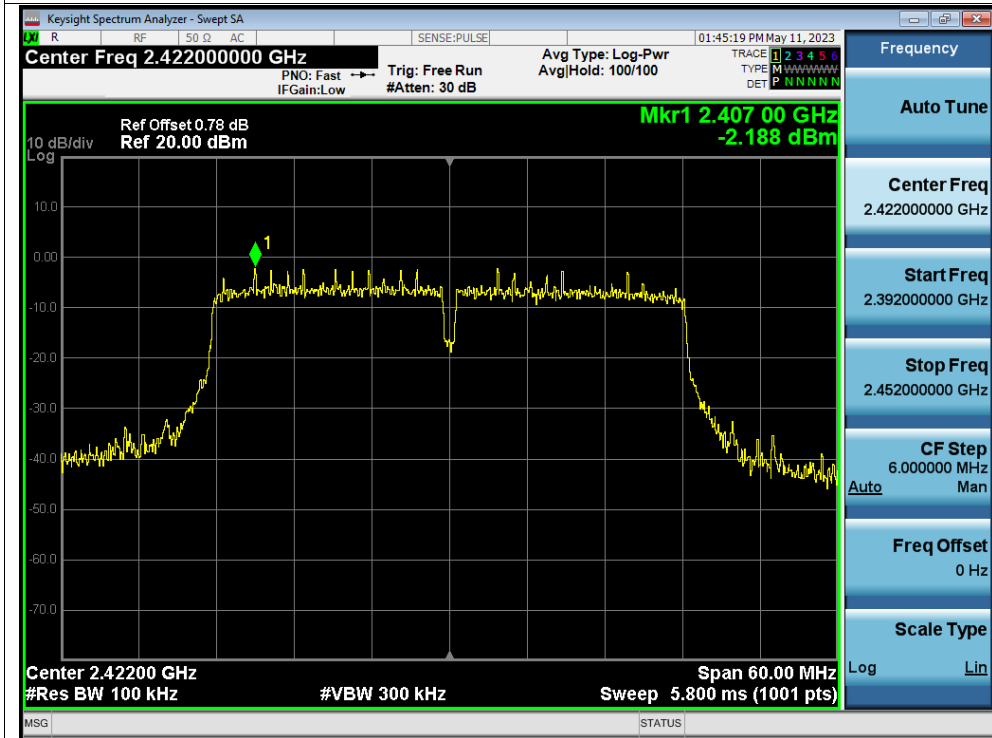
Band Edge NVNT n20 2462MHz Ant1 Ref



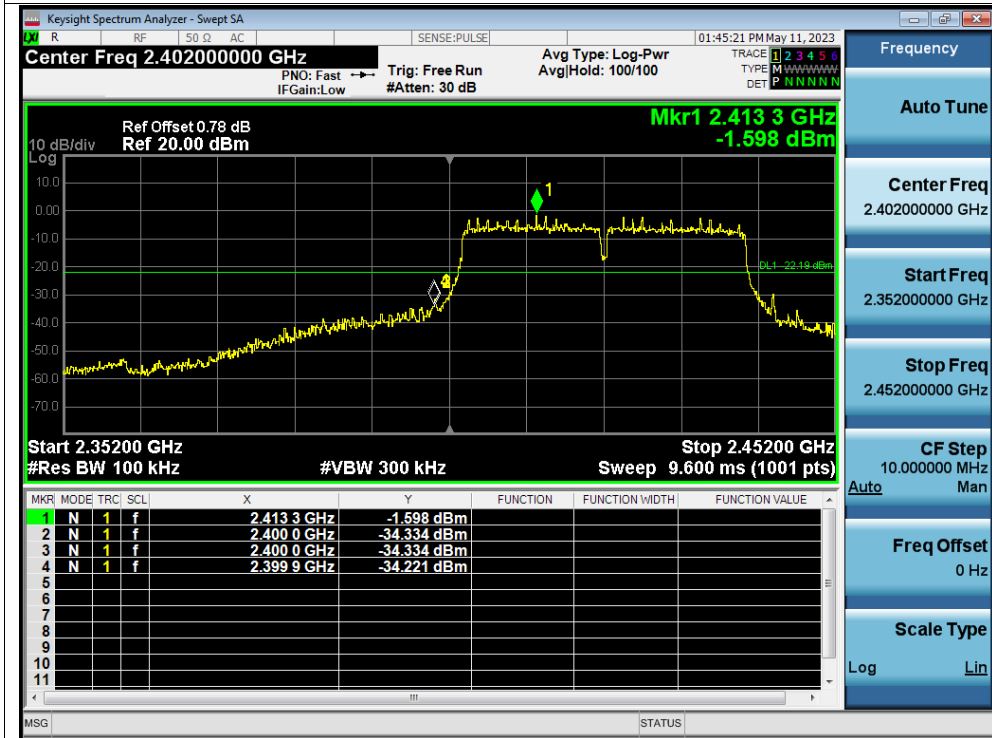
Band Edge NVNT n20 2462MHz Ant1 Emission



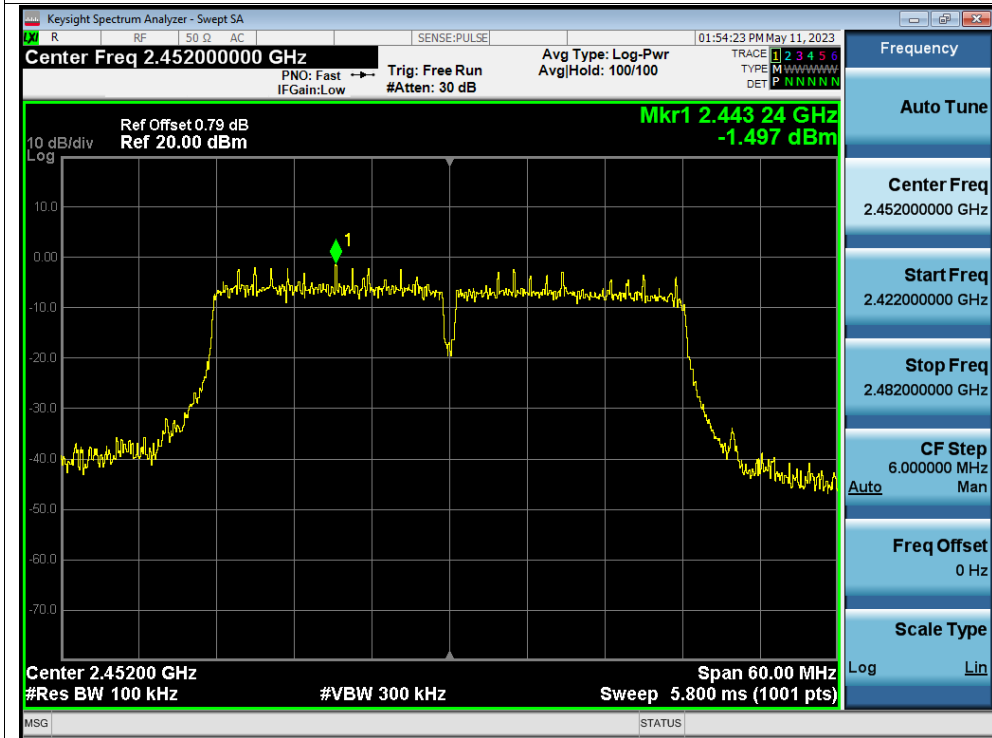
Band Edge NVNT n40 2422MHz Ant1 Ref



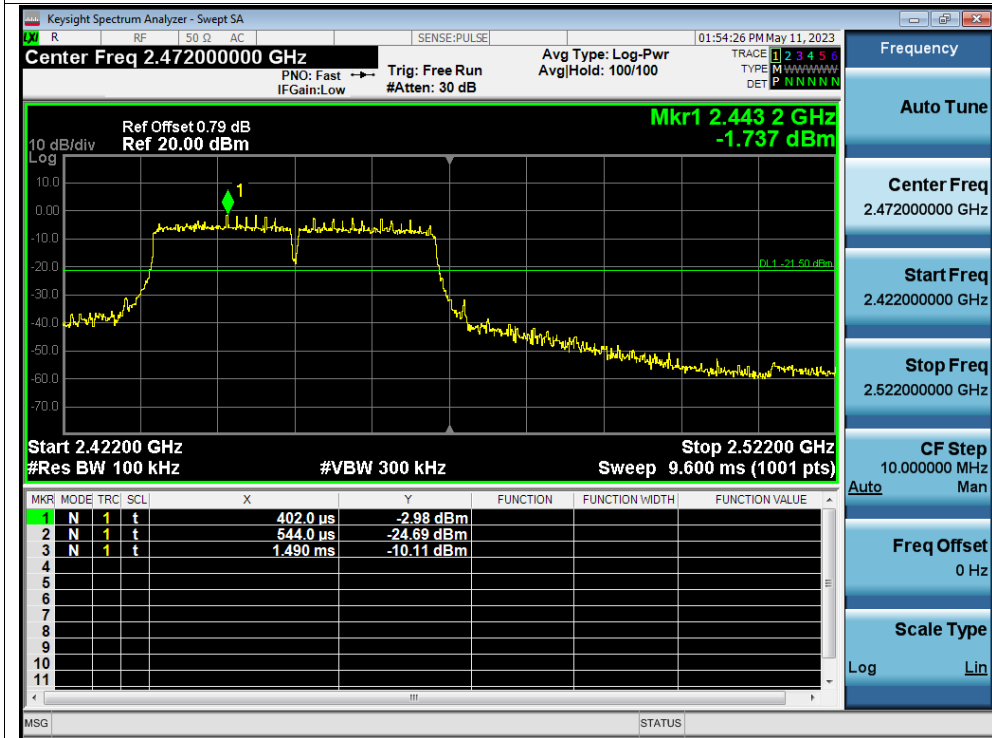
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

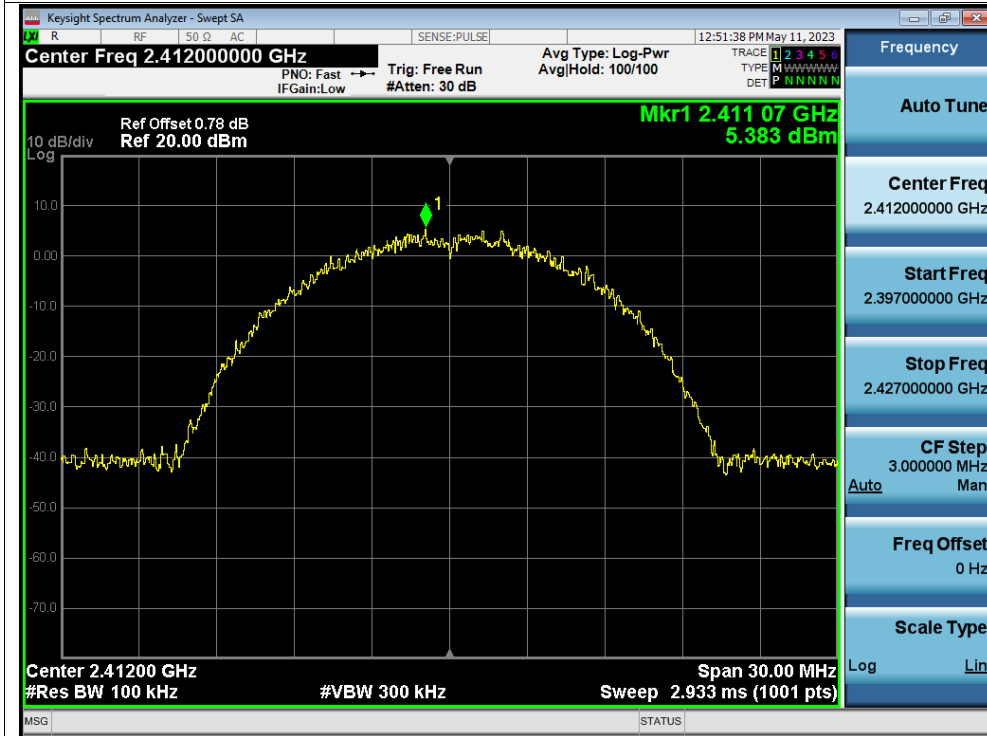


Conducted RF Spurious Emission

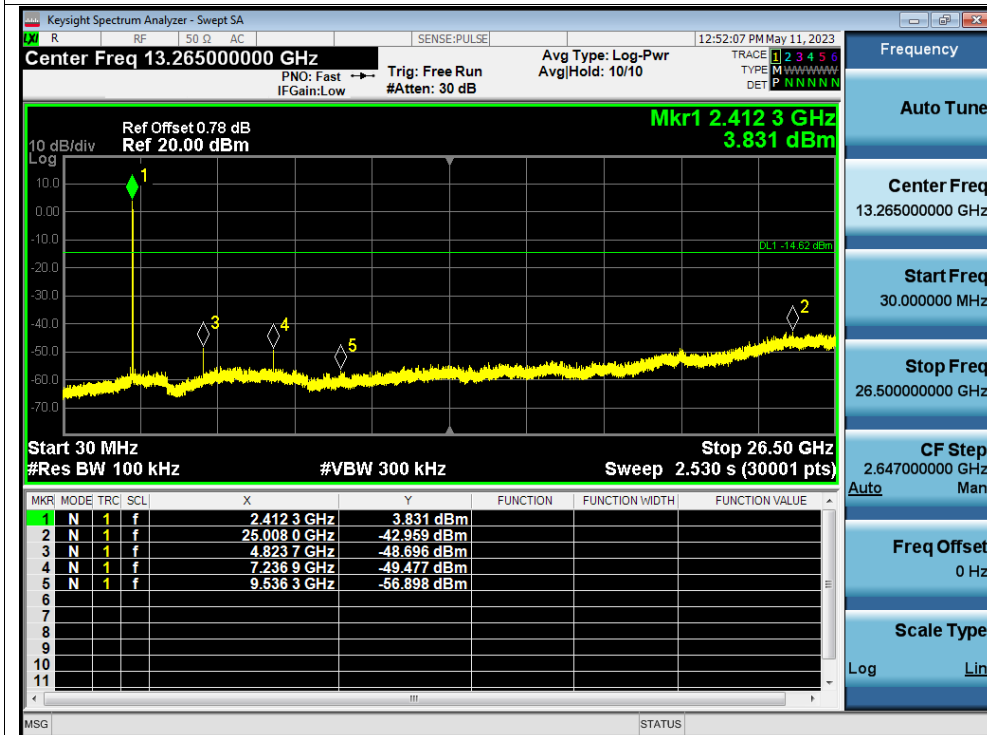
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.33	-20	Pass
NVNT	b	2437	Ant1	-48.1	-20	Pass
NVNT	b	2462	Ant1	-46.05	-20	Pass
NVNT	g	2412	Ant1	-42.05	-20	Pass
NVNT	g	2437	Ant1	-42.35	-20	Pass
NVNT	g	2462	Ant1	-41.9	-20	Pass
NVNT	n20	2412	Ant1	-43.6	-20	Pass
NVNT	n20	2437	Ant1	-43.02	-20	Pass
NVNT	n20	2462	Ant1	-43.2	-20	Pass
NVNT	n40	2422	Ant1	-41.58	-20	Pass
NVNT	n40	2437	Ant1	-41.11	-20	Pass
NVNT	n40	2452	Ant1	-41.41	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



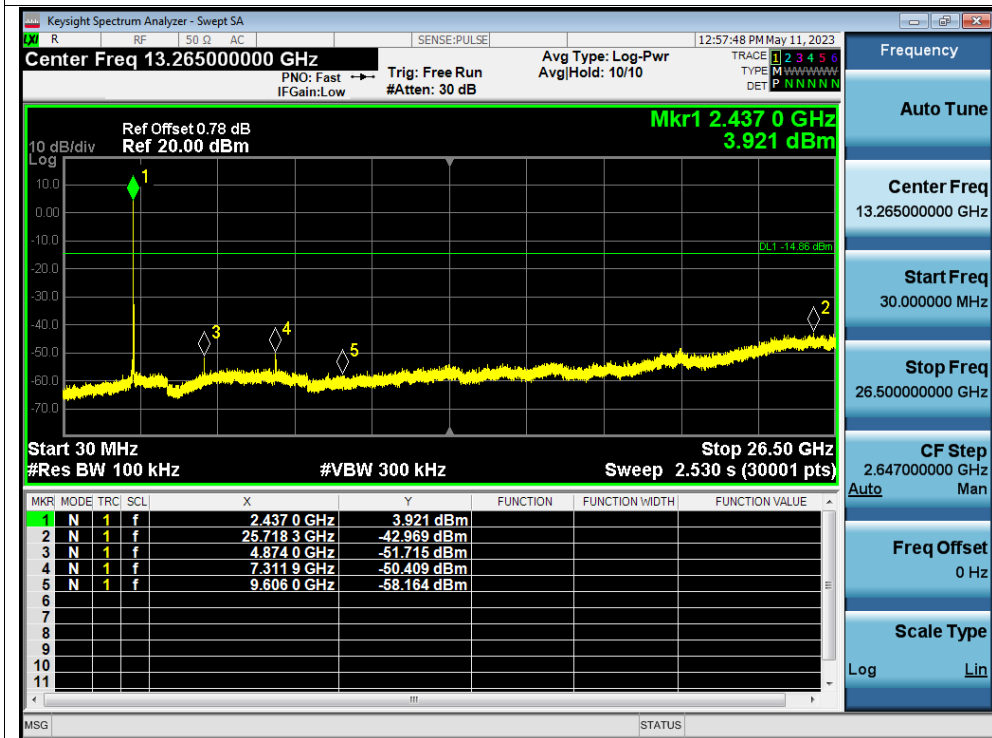
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



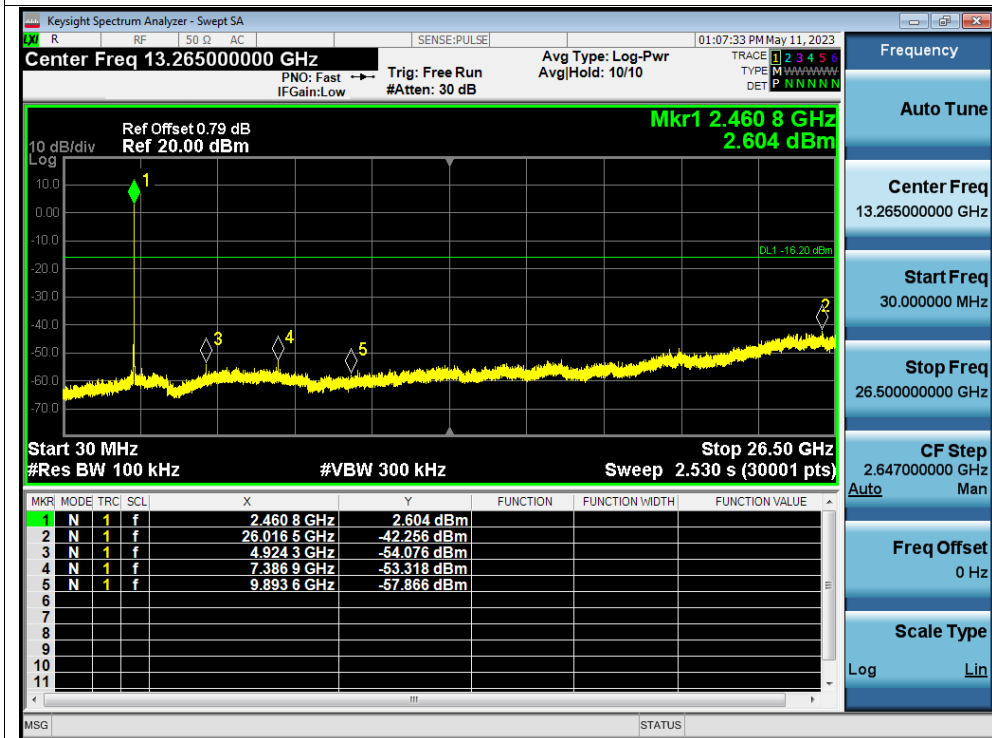
Tx. Spurious NVNT b 2437MHz Ant1 Emission



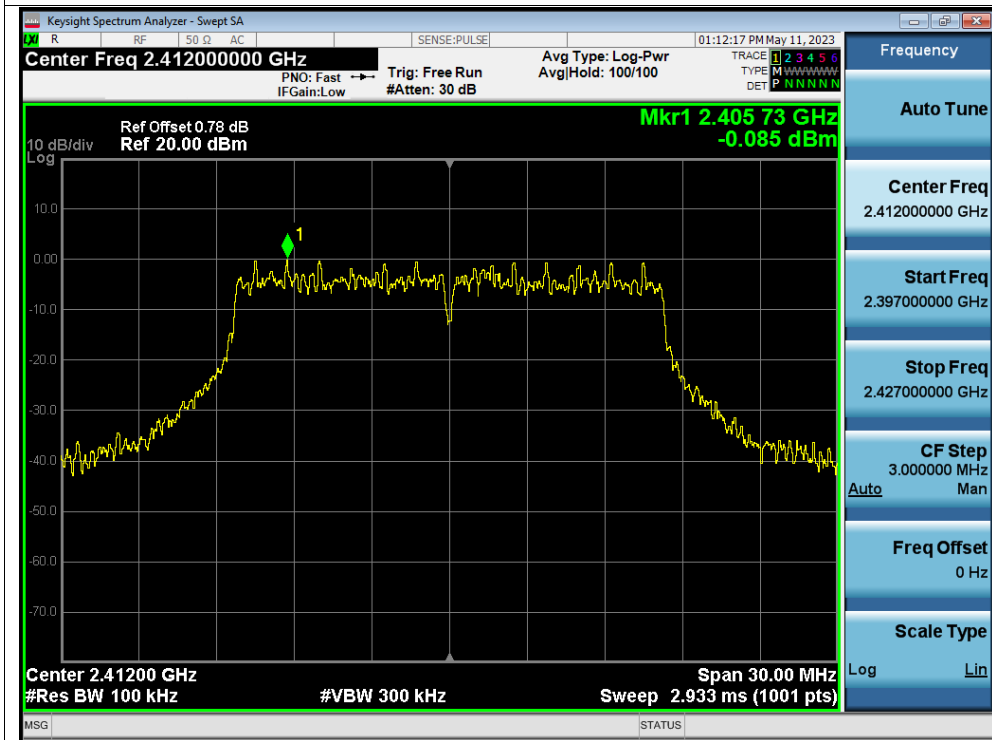
Tx. Spurious NVNT b 2462MHz Ant1 Ref



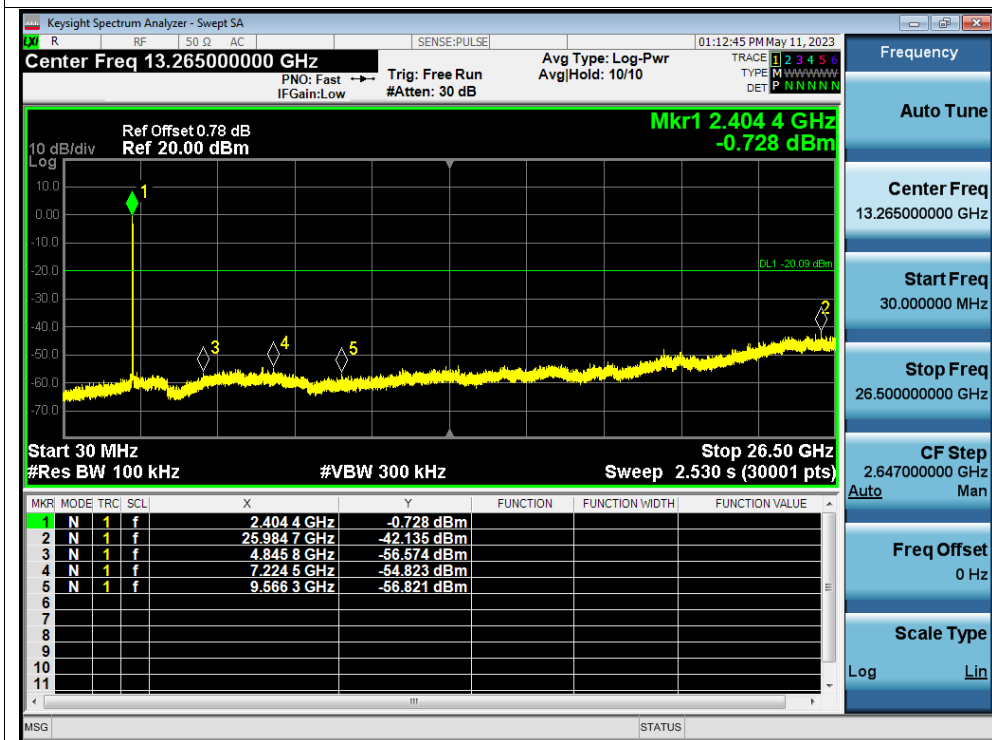
Tx. Spurious NVNT b 2462MHz Ant1 Emission



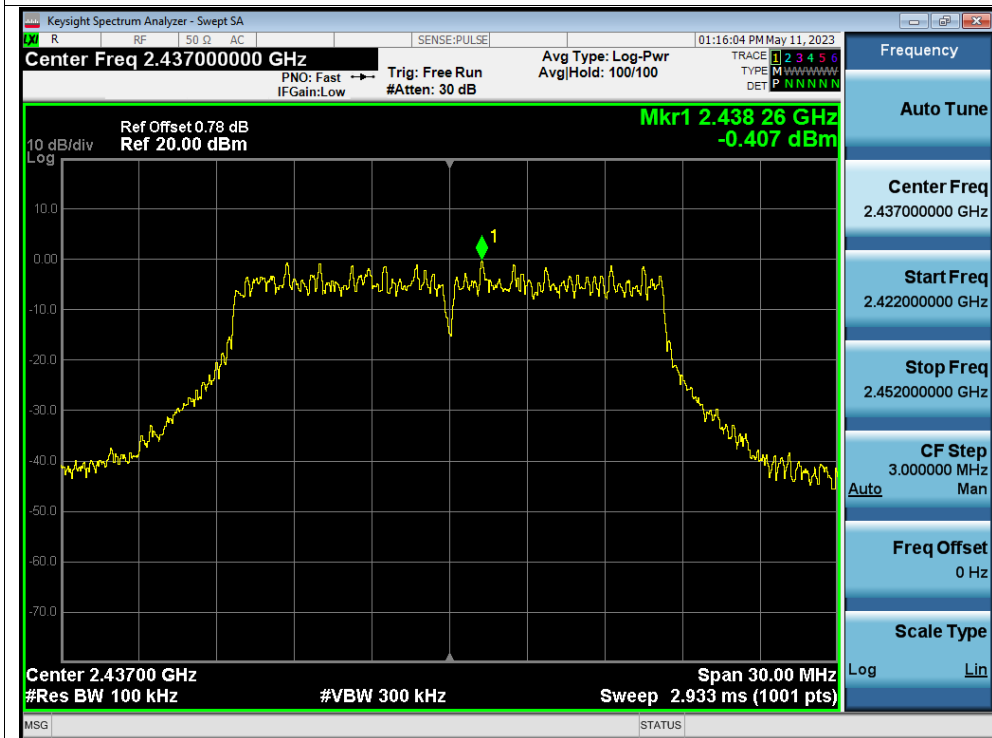
Tx. Spurious NVNT g 2412MHz Ant1 Ref



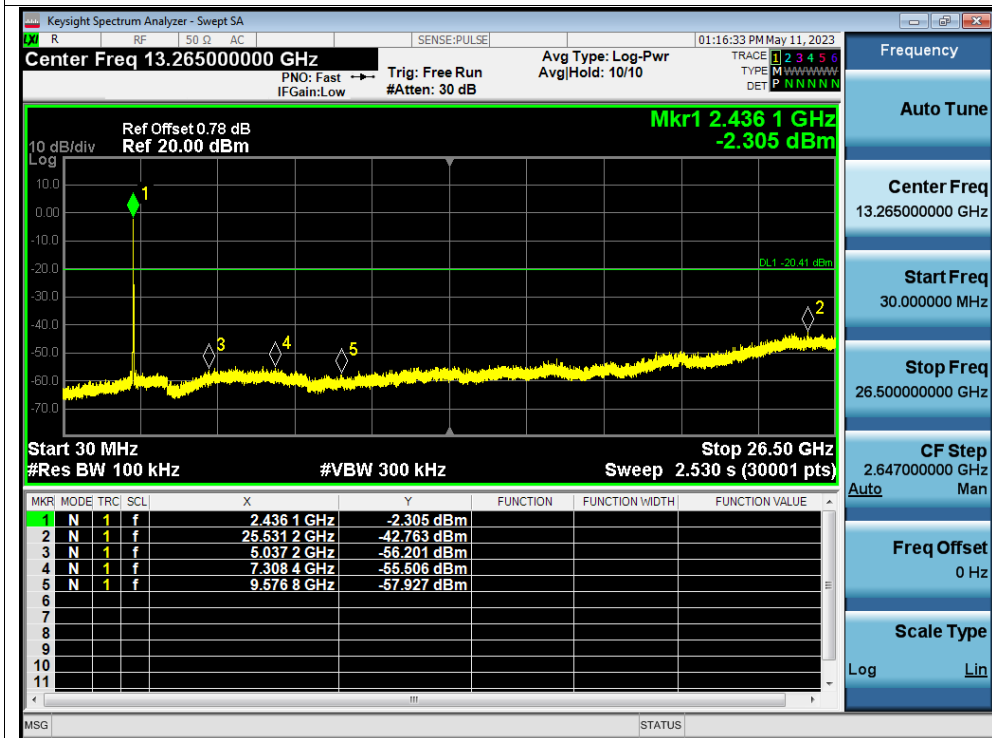
Tx. Spurious NVNT g 2412MHz Ant1 Emission



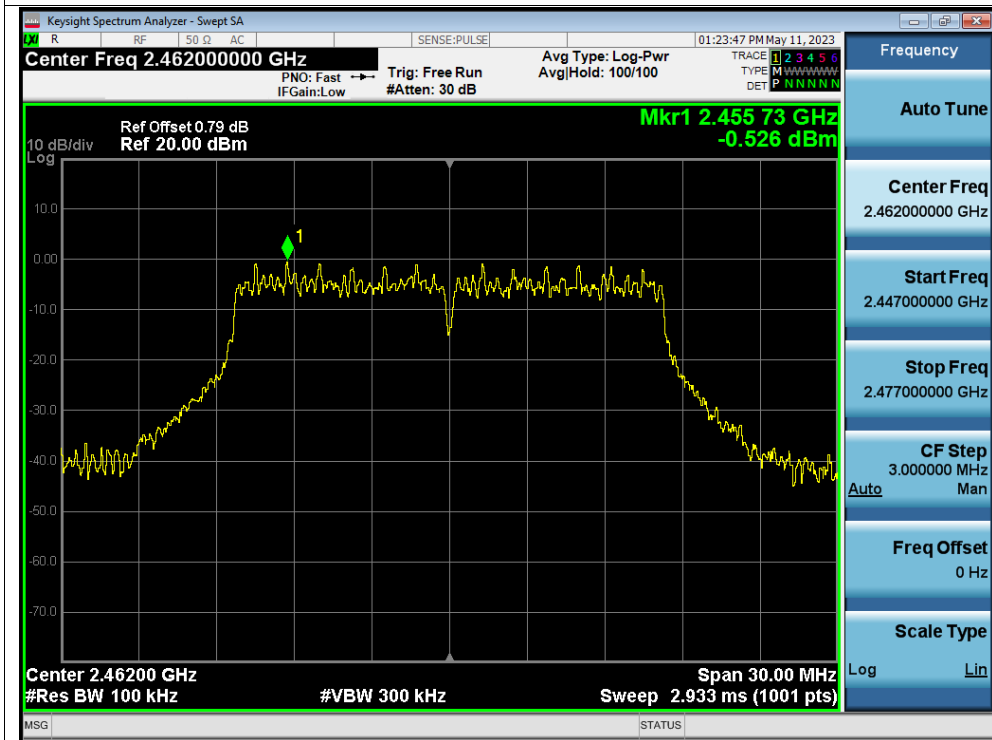
Tx. Spurious NVNT g 2437MHz Ant1 Ref



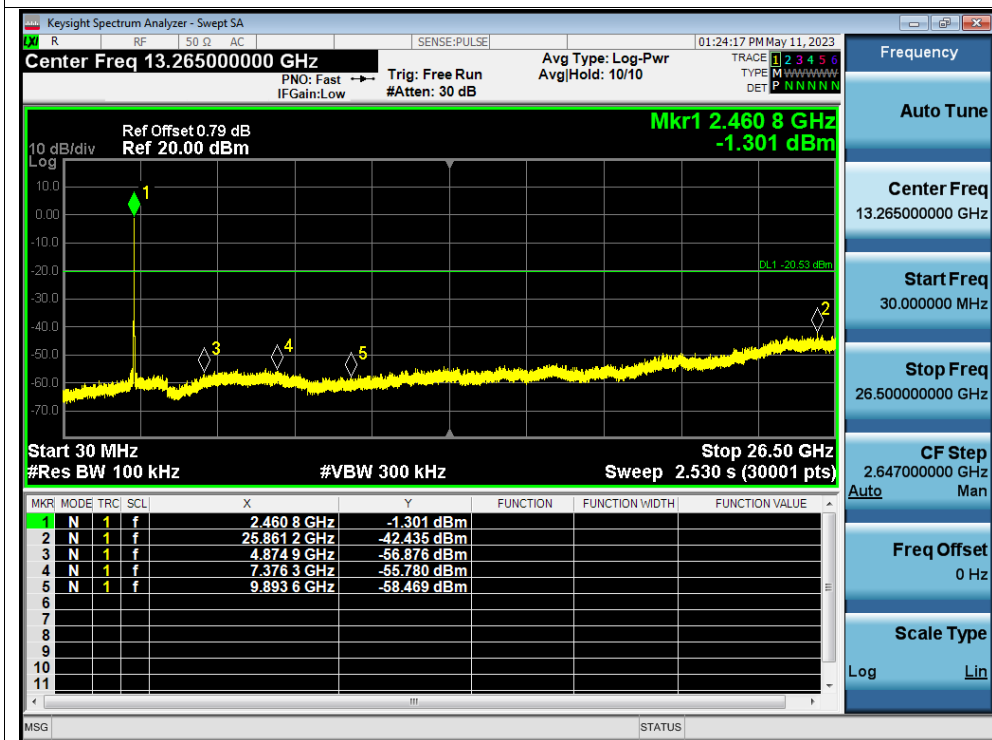
Tx. Spurious NVNT g 2437MHz Ant1 Emission



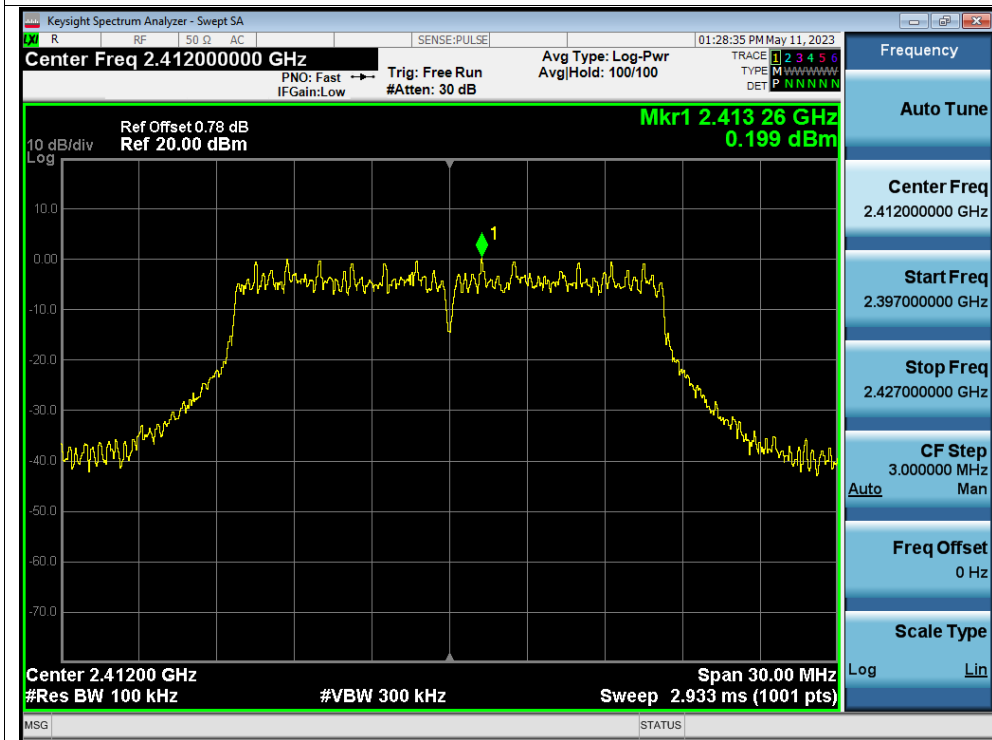
Tx. Spurious NVNT g 2462MHz Ant1 Ref



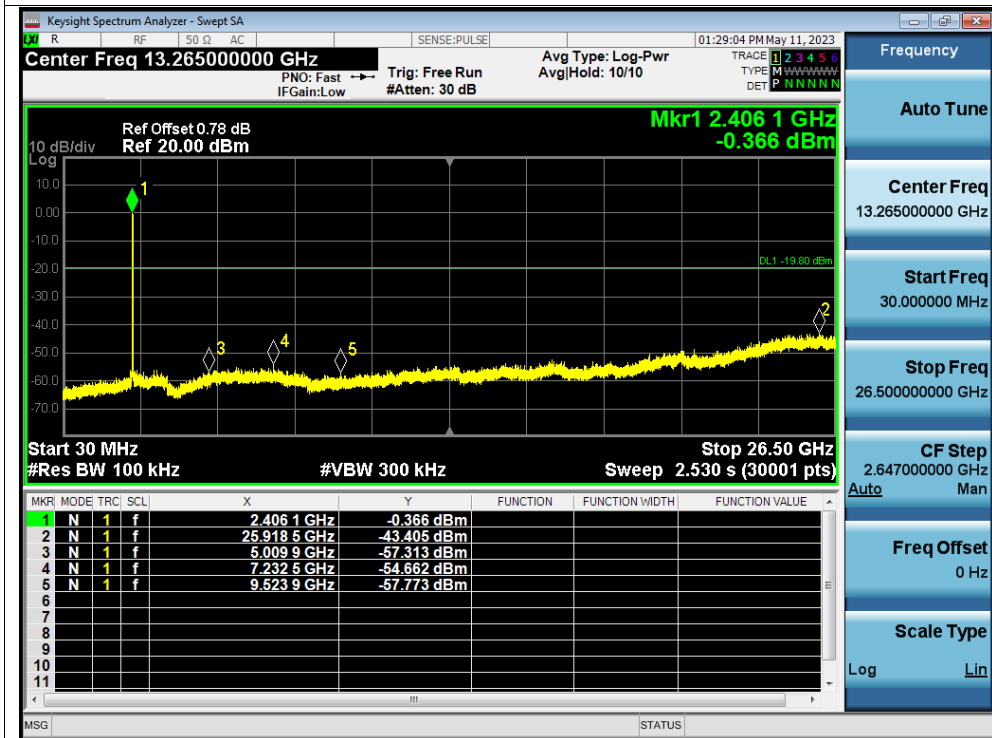
Tx. Spurious NVNT g 2462MHz Ant1 Emission



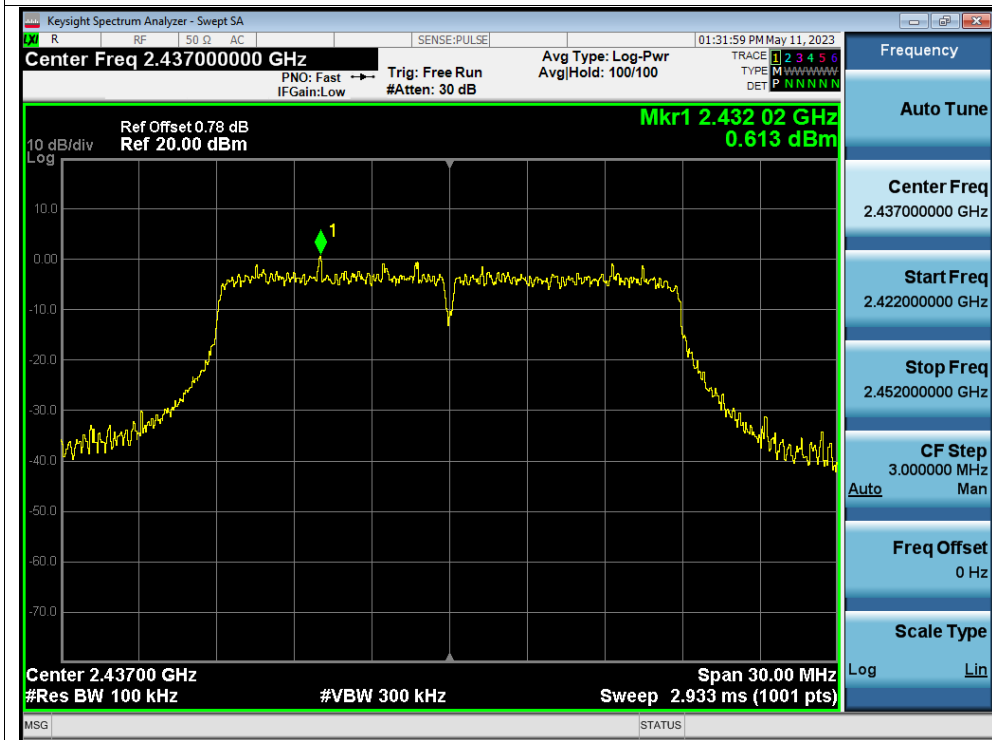
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



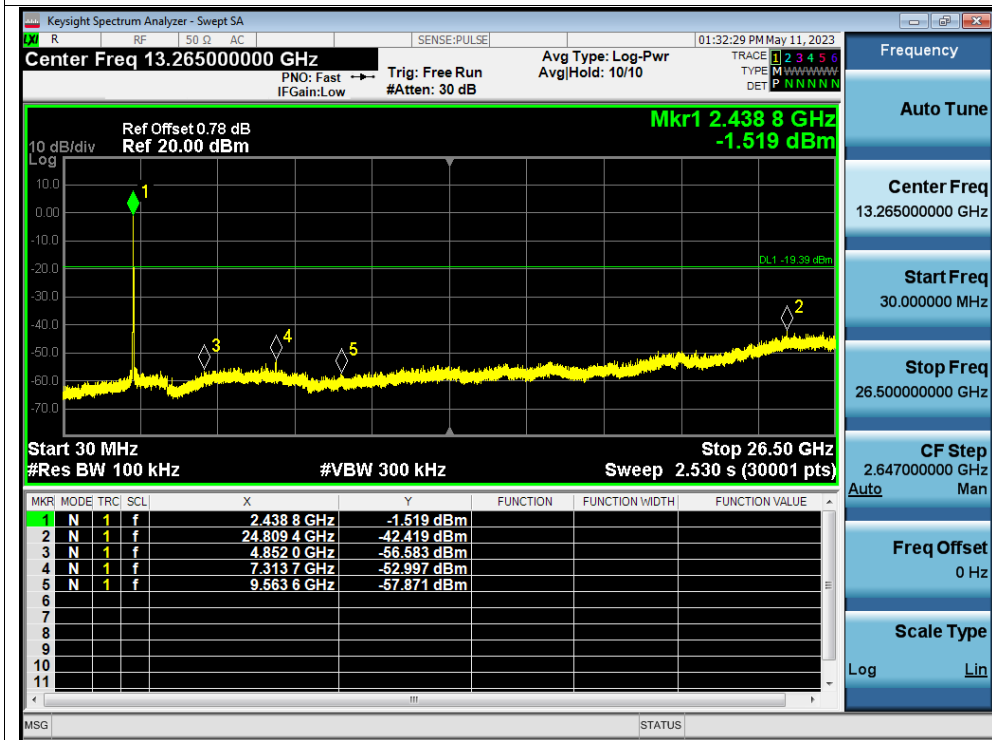
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



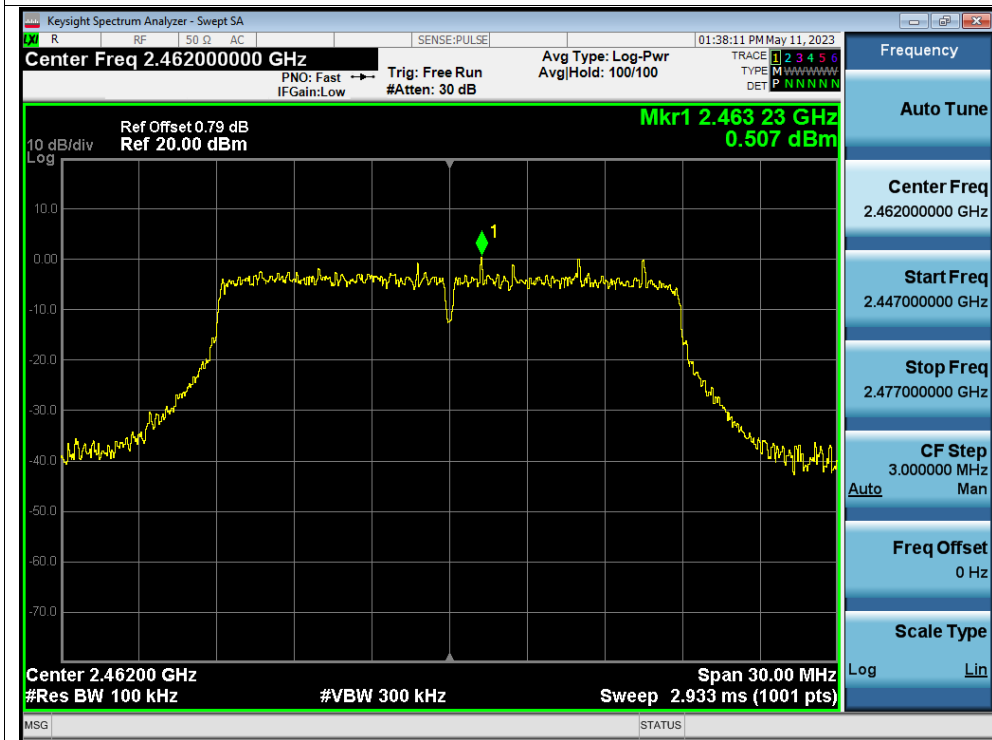
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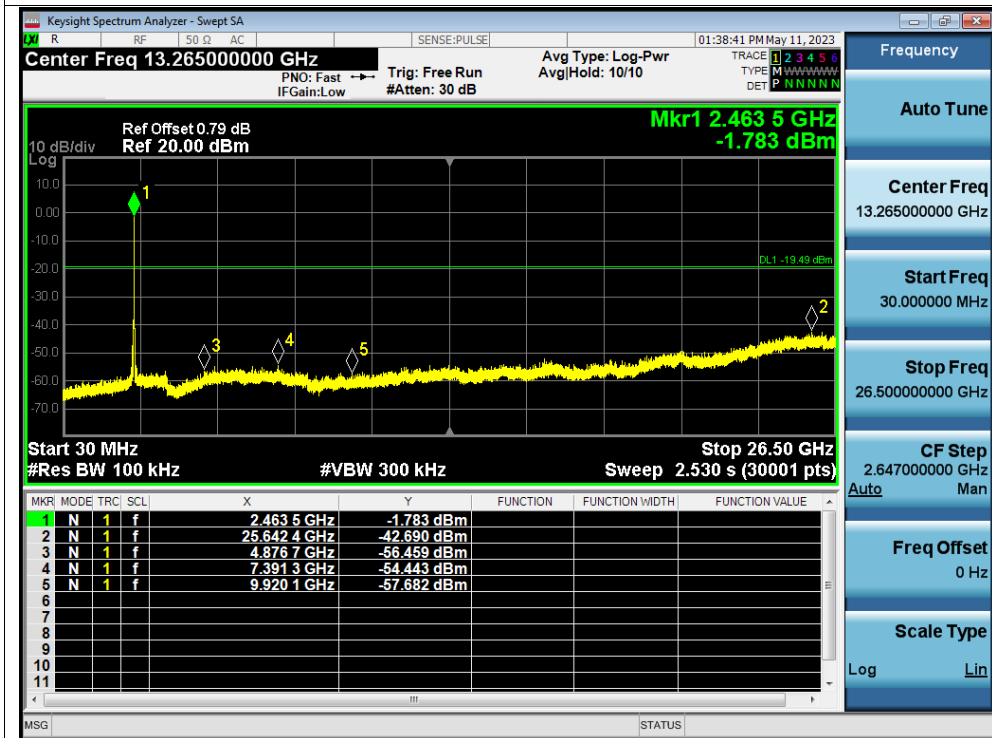
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



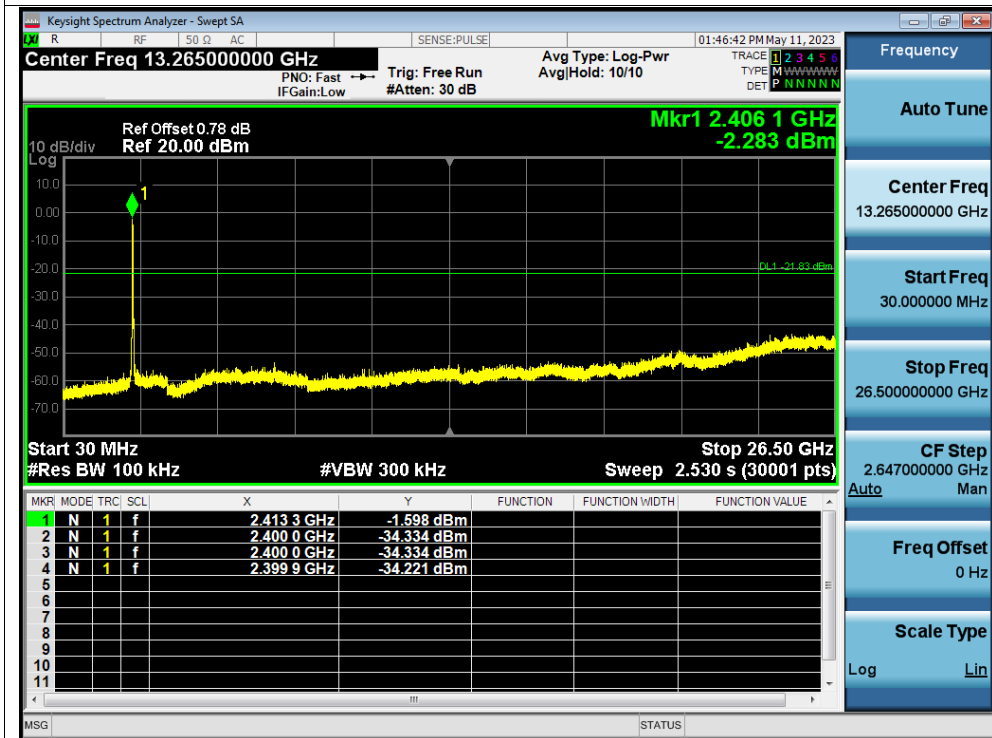
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



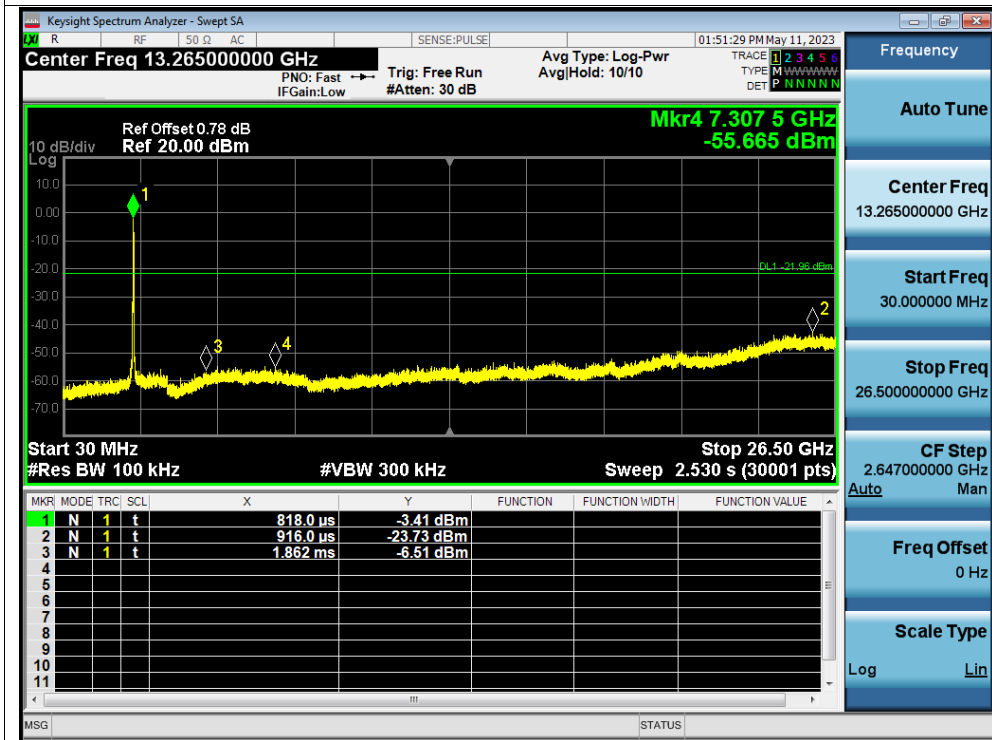
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



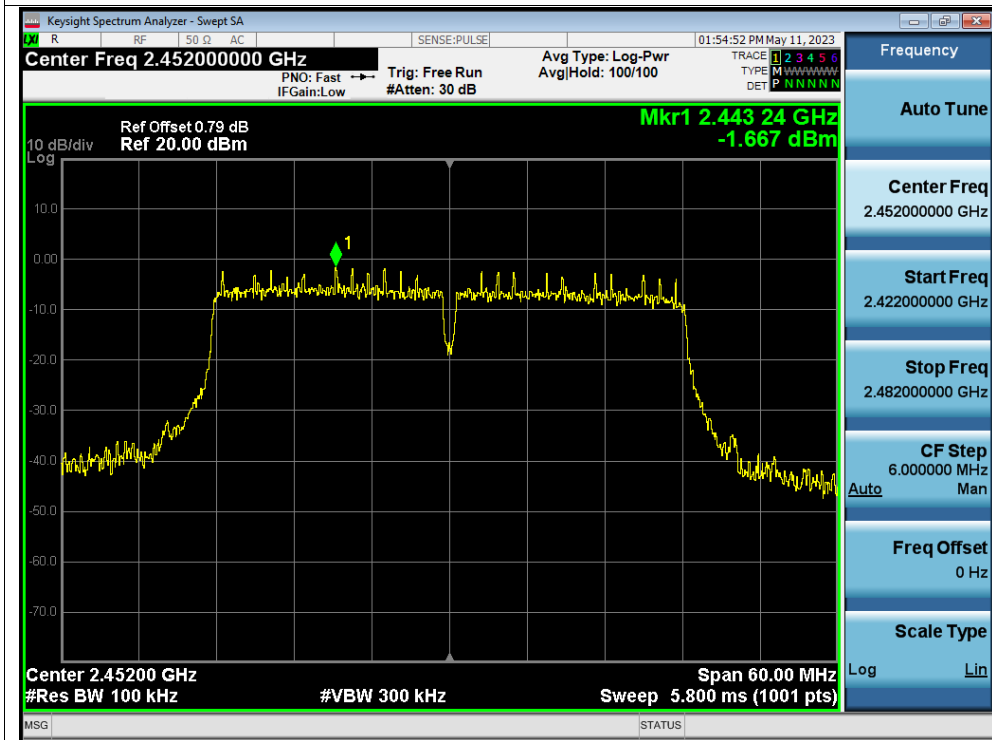
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



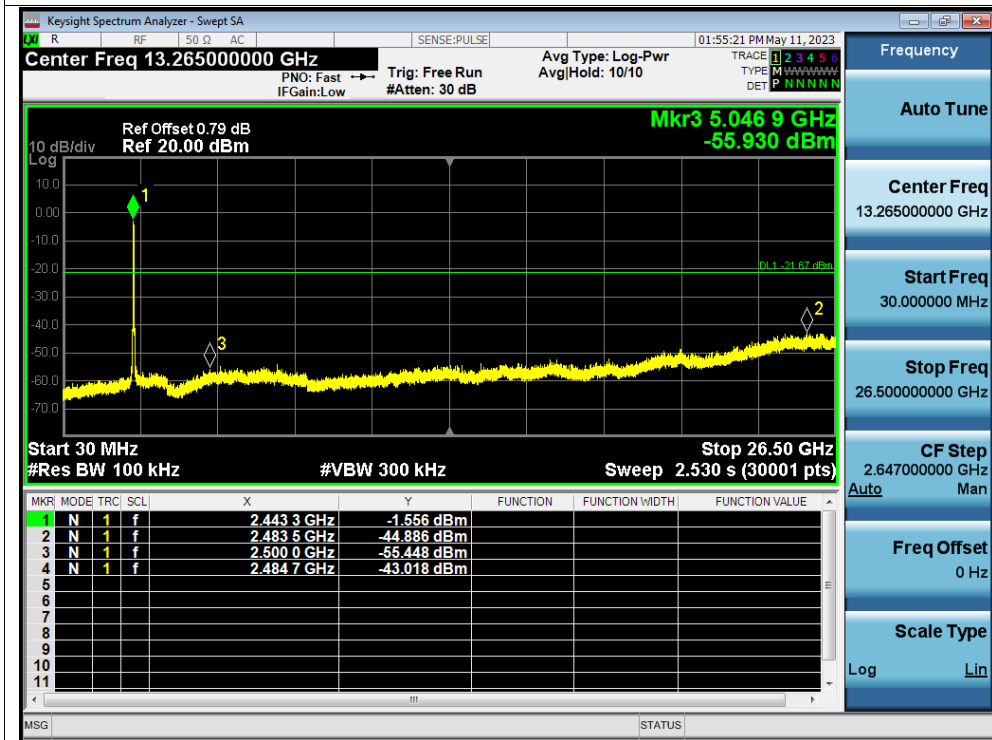
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



7.5 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	90.69	0.42	0.77
NVNT	b	2437	Ant1	96.17	0.17	0.77
NVNT	b	2462	Ant1	96.17	0.17	0.77
NVNT	g	2412	Ant1	66.31	1.78	4.03
NVNT	g	2437	Ant1	80	0.97	4.03
NVNT	g	2462	Ant1	84.93	0.71	4.03
NVNT	n20	2412	Ant1	68.13	1.67	4.03
NVNT	n20	2437	Ant1	97.76	0.1	0.52
NVNT	n20	2462	Ant1	97.76	0.1	0.52
NVNT	n40	2422	Ant1	87.59	0.58	1.06
NVNT	n40	2437	Ant1	90.61	0.43	1.06
NVNT	n40	2452	Ant1	86.95	0.61	1.06