

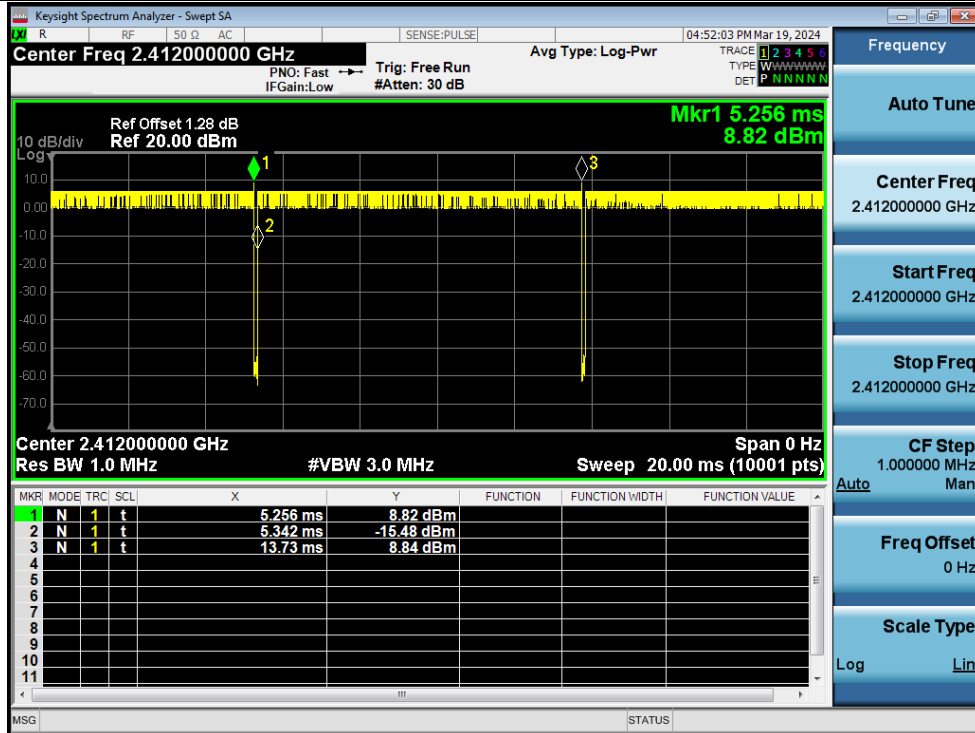
Appendix B

Duty Cycle

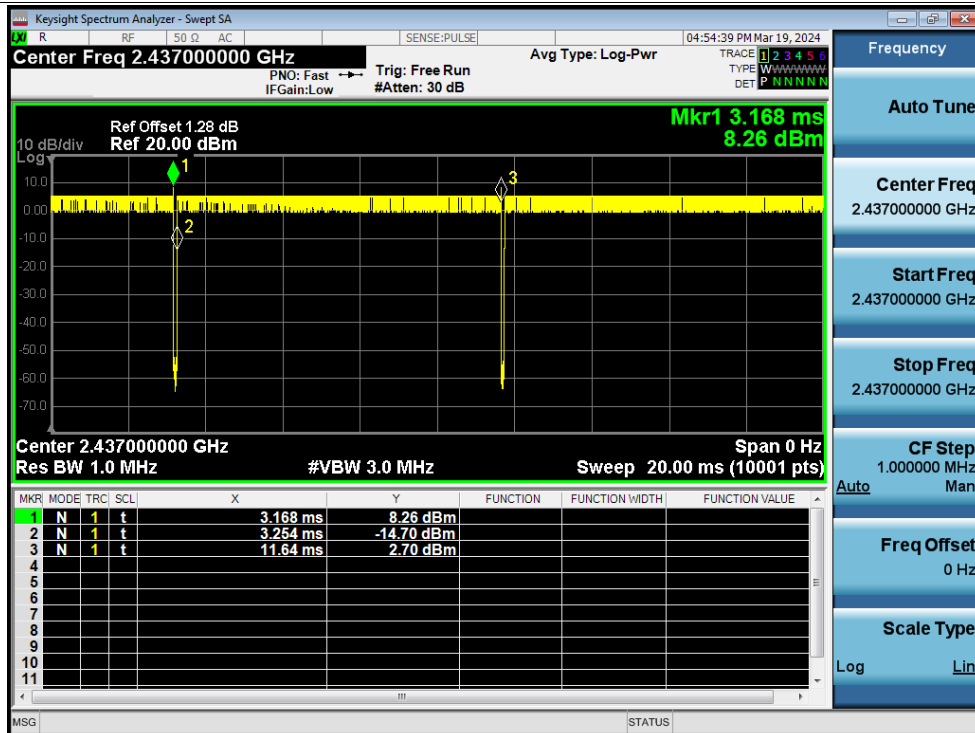
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	b	2412	Ant1	8.39	8.47	99.06	0	0.12	1
NVNT	b	2437	Ant1	8.39	8.47	99.06	0	0.12	1
NVNT	b	2462	Ant1	8.39	8.47	99.06	0	0.12	1
NVNT	g	2412	Ant1	1.4	1.41	99.29	0	0.72	1
NVNT	g	2437	Ant1	1.4	1.41	99.29	0	0.72	1
NVNT	g	2462	Ant1	1.4	1.41	99.29	0	0.72	1
NVNT	n20	2412	Ant1	1.3	1.32	98.48	0	0.77	1
NVNT	n20	2437	Ant1	1.3	1.32	98.48	0	0.77	1
NVNT	n20	2462	Ant1	1.3	1.32	98.48	0	0.77	1
NVNT	n40	2422	Ant1	0.65	0.66	98.48	0	1.54	1
NVNT	n40	2437	Ant1	0.65	0.66	98.48	0	1.54	1
NVNT	n40	2452	Ant1	0.65	0.66	98.48	0	1.54	1

Test Graphs

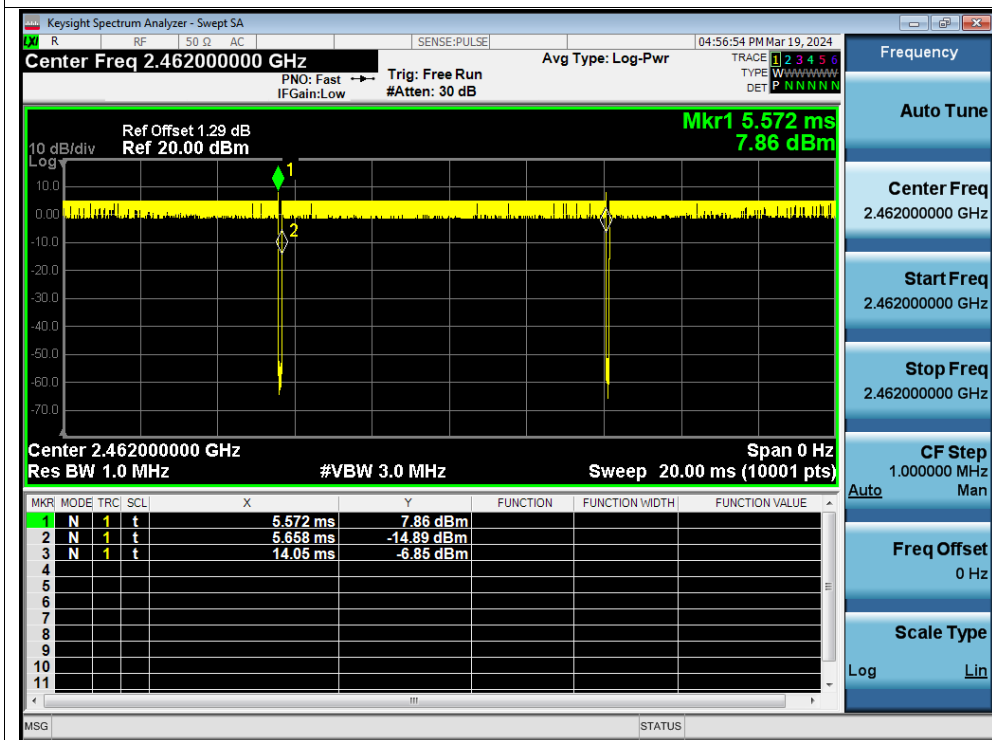
Duty Cycle NVNT b 2412MHz Ant1



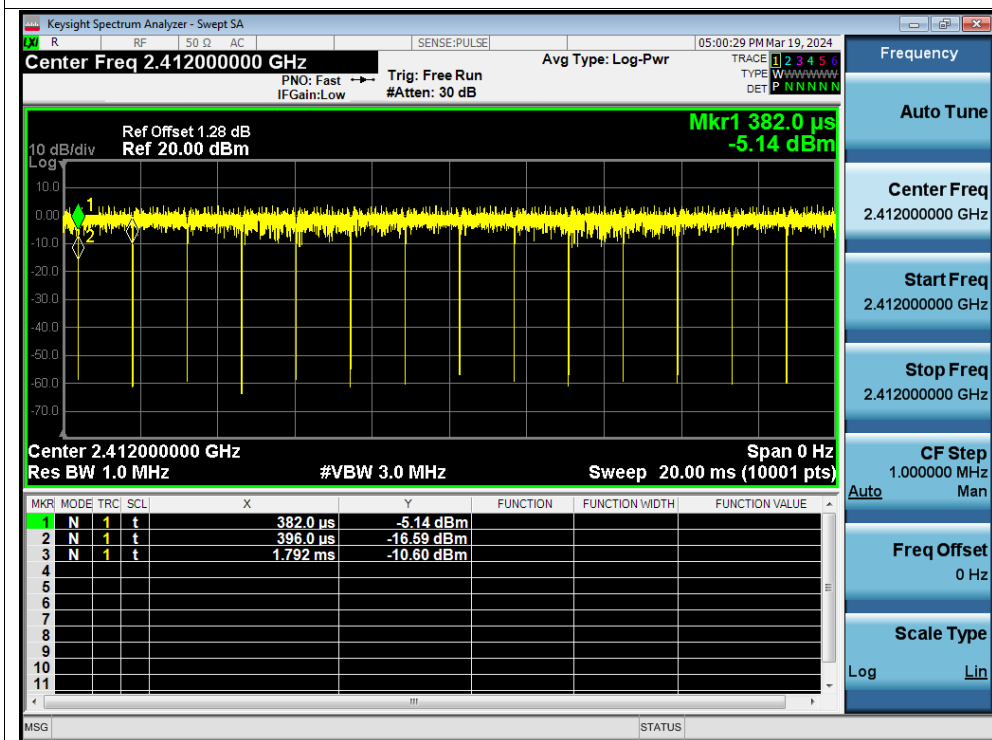
Duty Cycle NVNT b 2437MHz Ant1



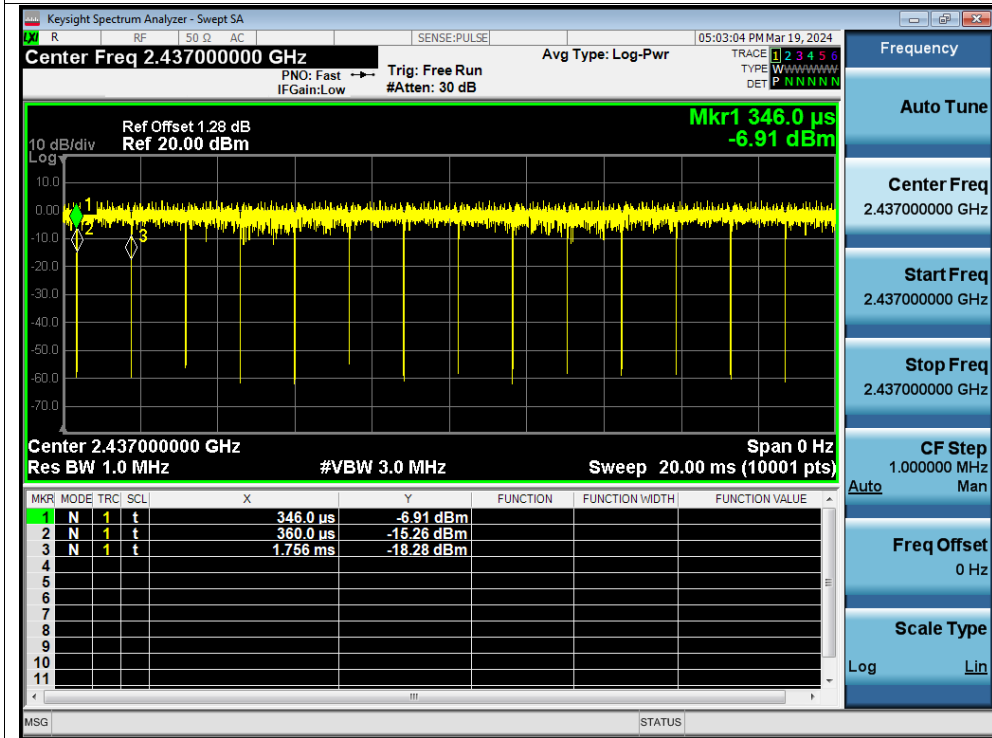
Duty Cycle NVNT b 2462MHz Ant1



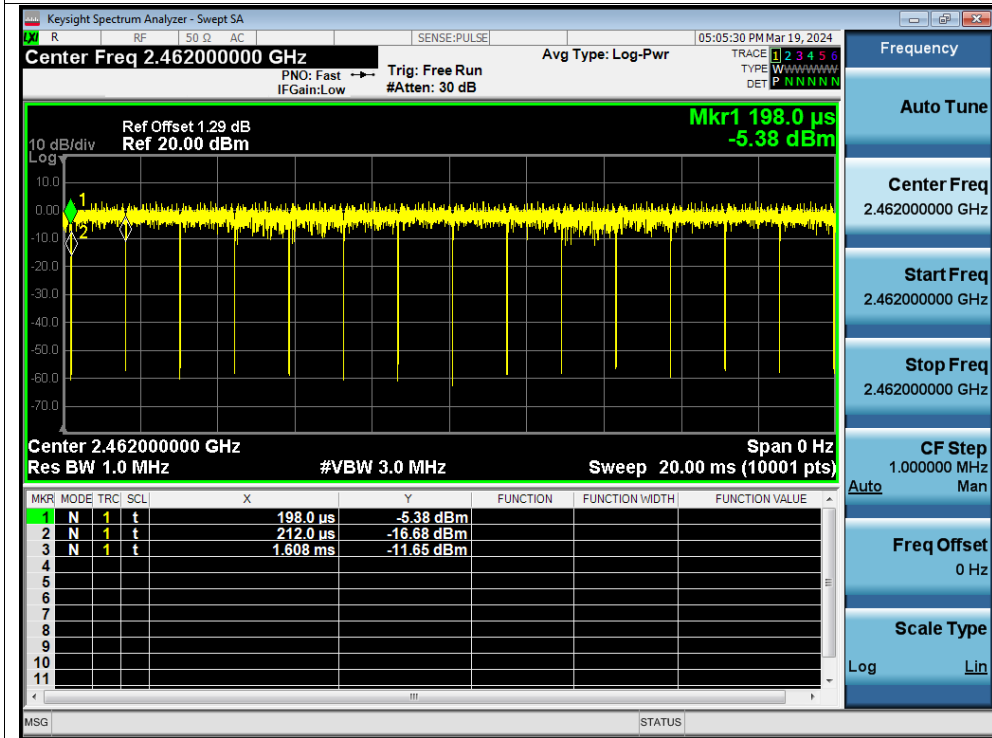
Duty Cycle NVNT g 2412MHz Ant1



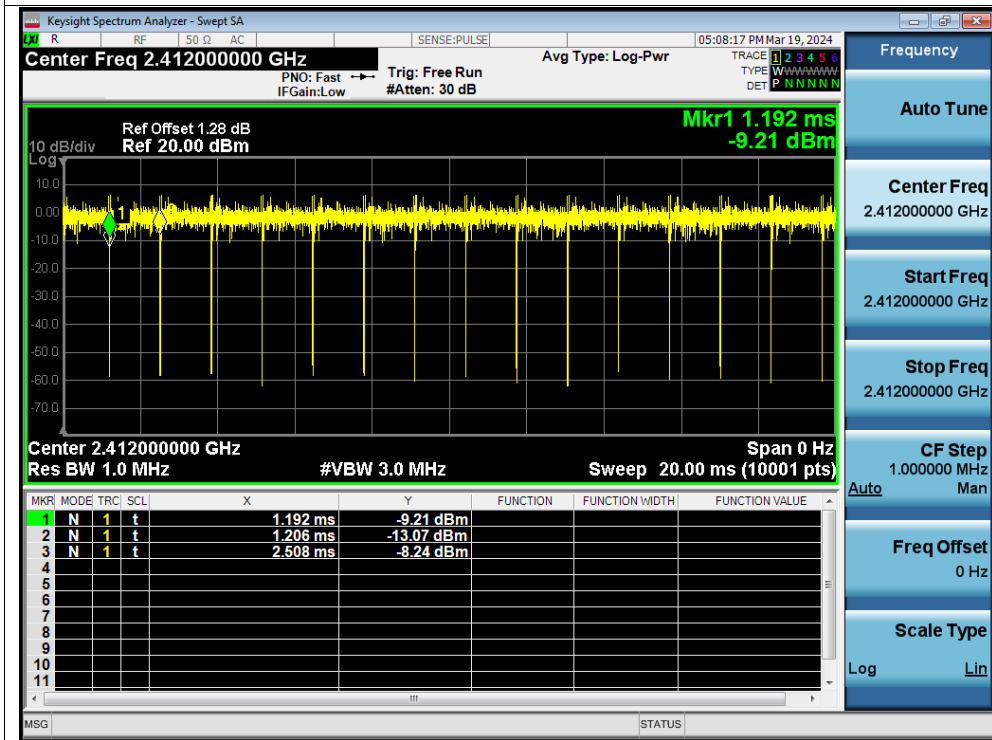
Duty Cycle NVNT g 2437MHz Ant1



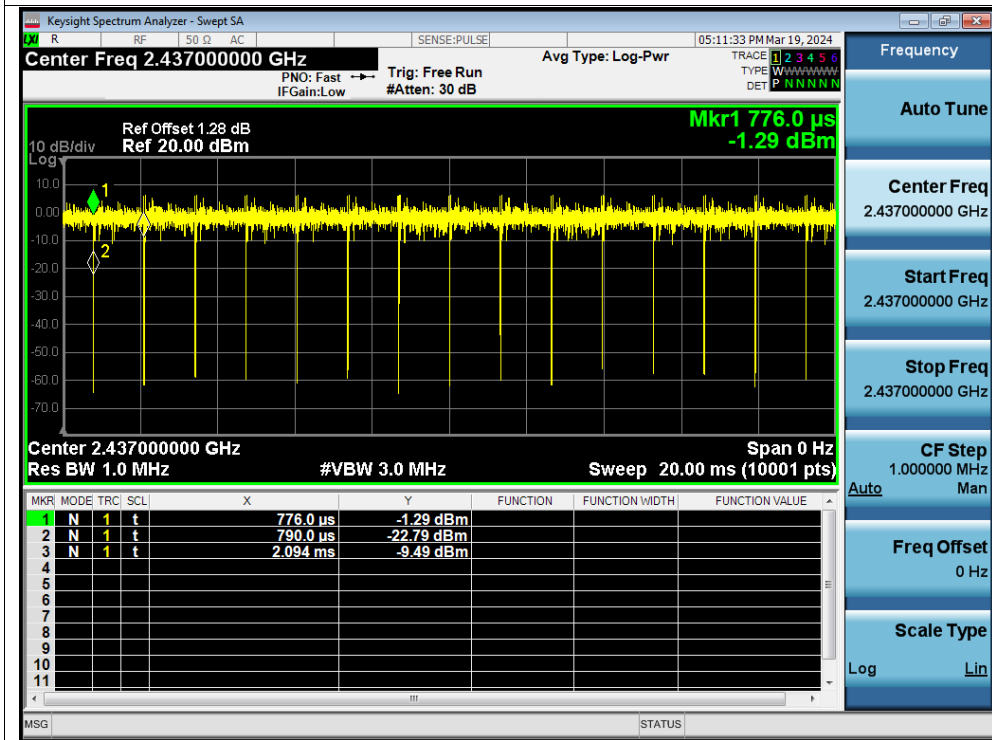
Duty Cycle NVNT g 2462MHz Ant1



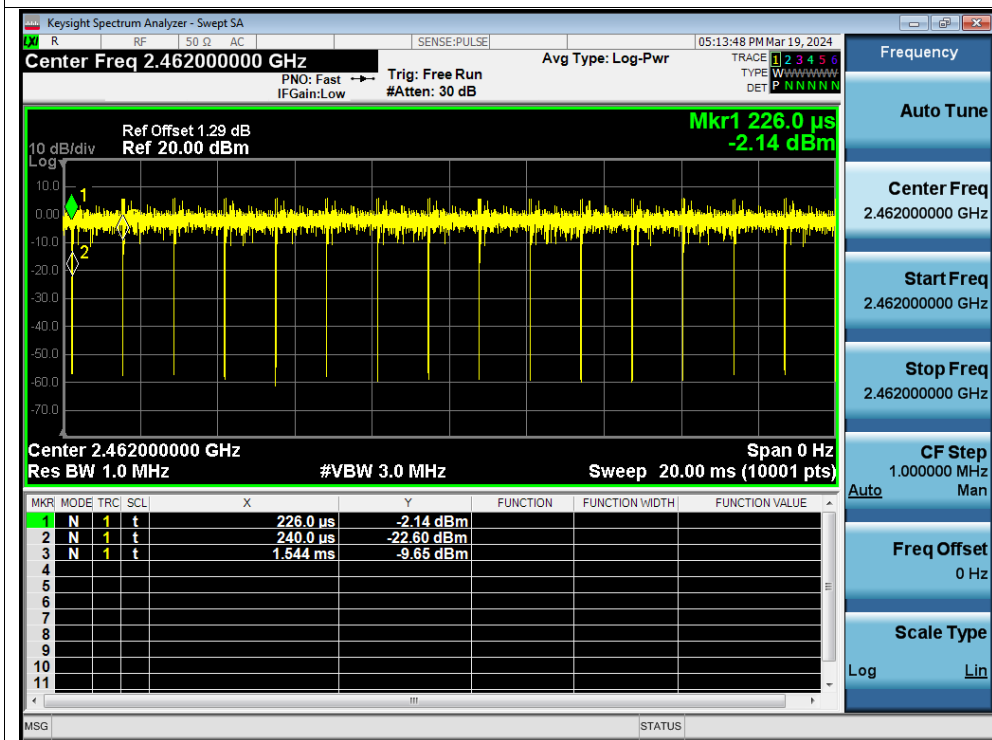
Duty Cycle NVNT n20 2412MHz Ant1



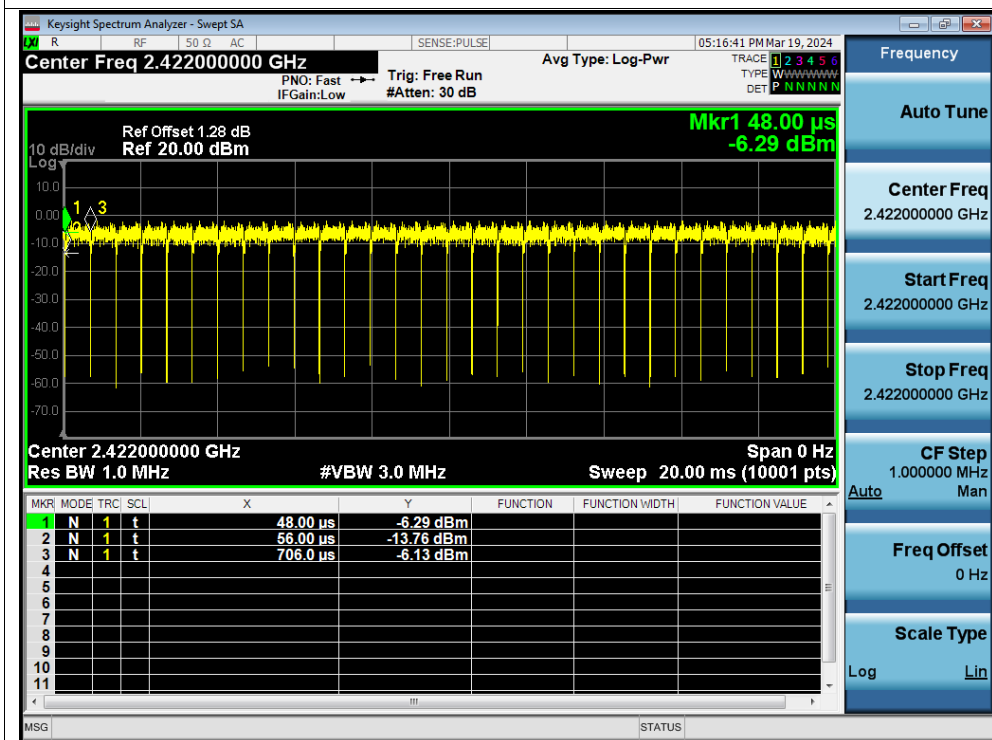
Duty Cycle NVNT n20 2437MHz Ant1



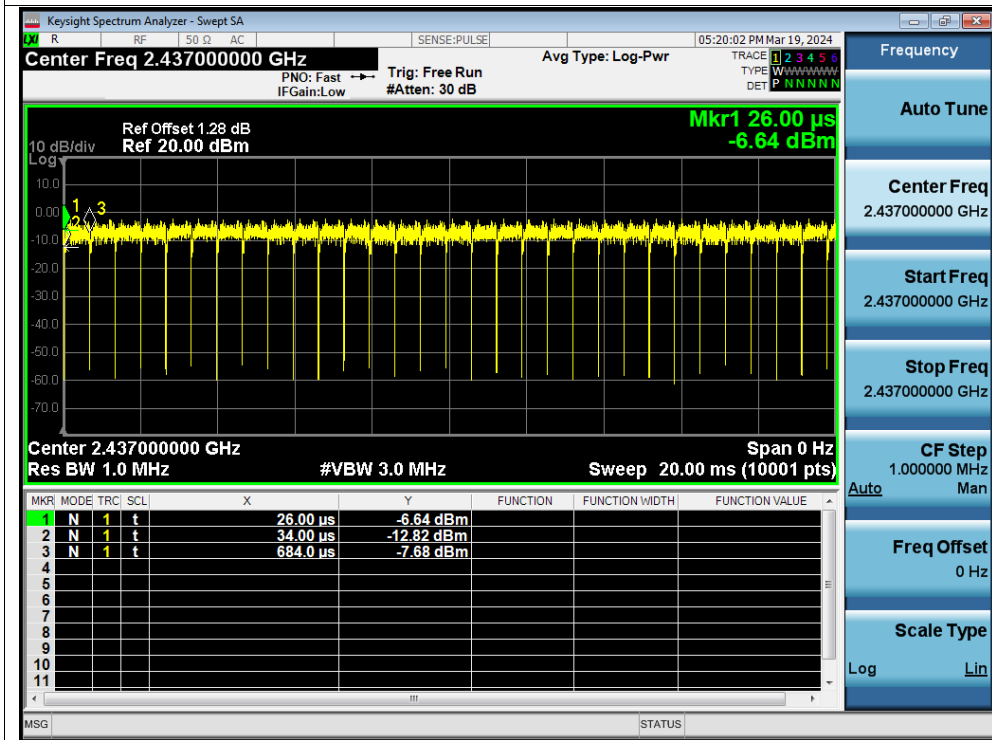
Duty Cycle NVNT n20 2462MHz Ant1



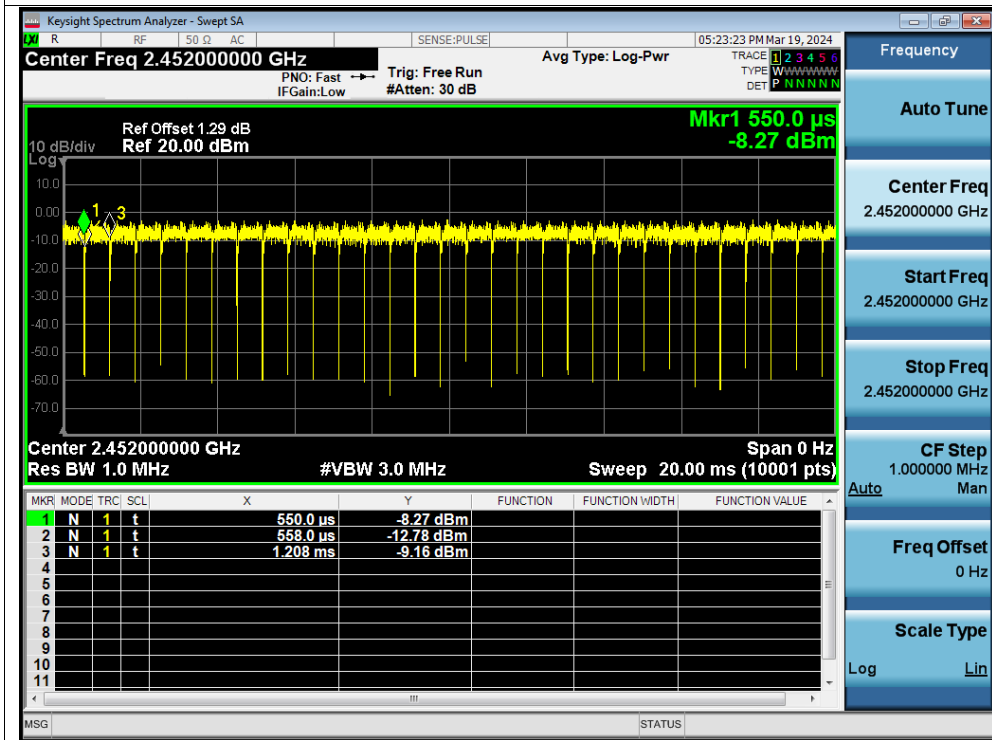
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.54	0	15.54	30	17.75	<=36.02	Pass
NVNT	b	2437	Ant1	15.1	0	15.1	30	17.31	<=36.02	Pass
NVNT	b	2462	Ant1	14.63	0	14.63	30	16.84	<=36.02	Pass
NVNT	g	2412	Ant1	13.87	0	13.87	30	16.08	<=36.02	Pass
NVNT	g	2437	Ant1	13.83	0	13.83	30	16.04	<=36.02	Pass
NVNT	g	2462	Ant1	13.47	0	13.47	30	15.68	<=36.02	Pass
NVNT	n20	2412	Ant1	13.8	0	13.8	30	16.01	<=36.02	Pass
NVNT	n20	2437	Ant1	13.8	0	13.8	30	16.01	<=36.02	Pass
NVNT	n20	2462	Ant1	13.3	0	13.3	30	15.51	<=36.02	Pass
NVNT	n40	2422	Ant1	12.68	0	12.68	30	14.89	<=36.02	Pass
NVNT	n40	2437	Ant1	12.41	0	12.41	30	14.62	<=36.02	Pass
NVNT	n40	2452	Ant1	11.93	0	11.93	30	14.14	<=36.02	Pass

Note1: Antenna Gain: 2.21dBi;
Note2: E.I.R.P = Measured Power + Antenna Gain

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	12.56	0.5	Pass
NVNT	b	2437	Ant1	12.04	0.5	Pass
NVNT	b	2462	Ant1	13.03	0.5	Pass
NVNT	g	2412	Ant1	14.67	0.5	Pass
NVNT	g	2437	Ant1	15.07	0.5	Pass
NVNT	g	2462	Ant1	15.64	0.5	Pass
NVNT	n20	2412	Ant1	12.55	0.5	Pass
NVNT	n20	2437	Ant1	16.64	0.5	Pass
NVNT	n20	2462	Ant1	15.4	0.5	Pass
NVNT	n40	2422	Ant1	33.79	0.5	Pass
NVNT	n40	2437	Ant1	33.8	0.5	Pass
NVNT	n40	2452	Ant1	35.03	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



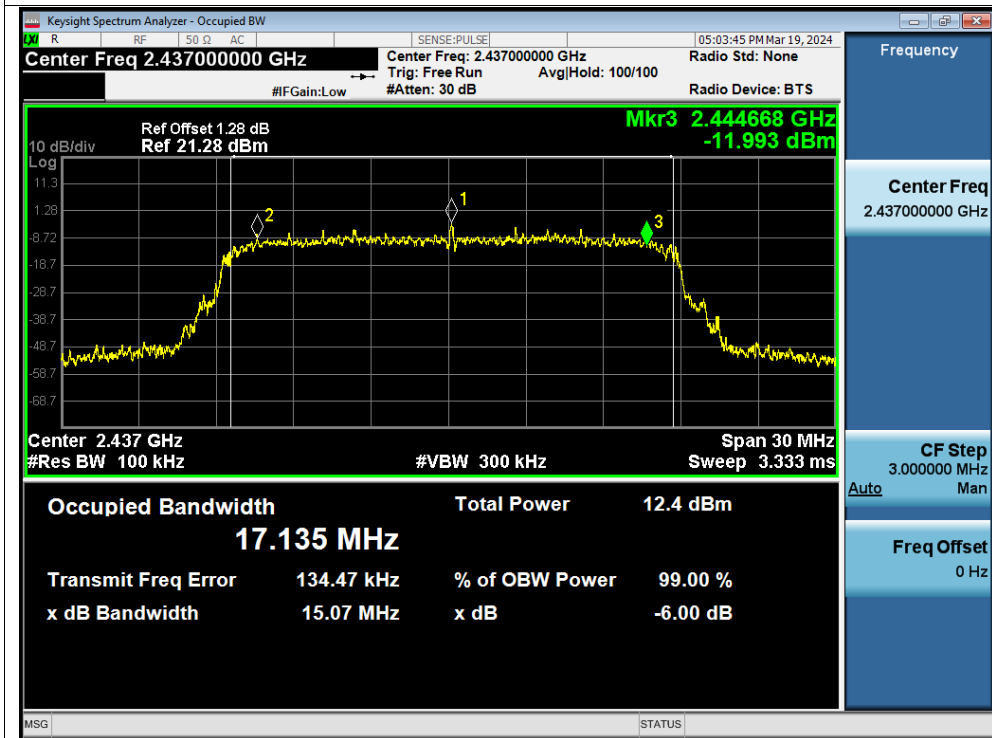
-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



-6dB Bandwidth NVNT g 2437MHz Ant1



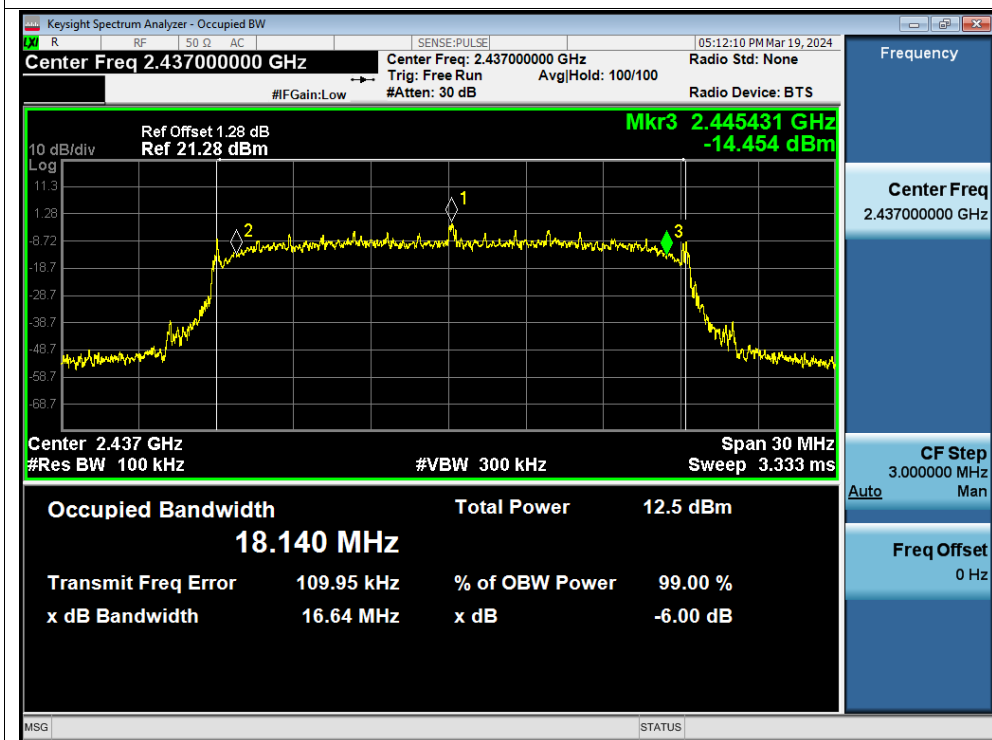
-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



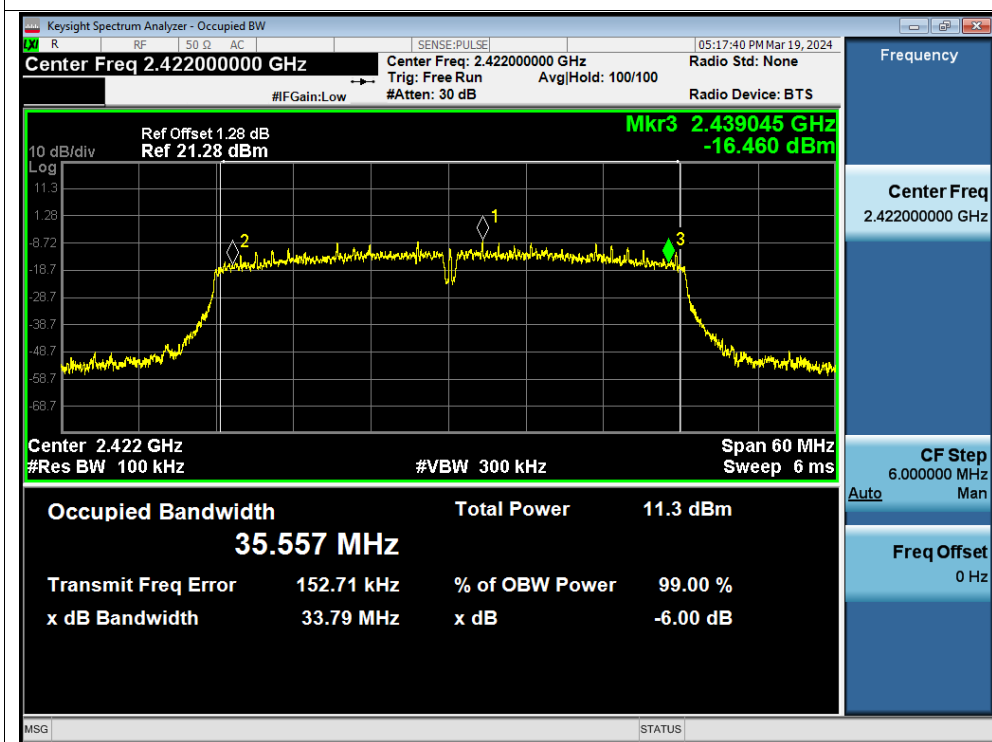
-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



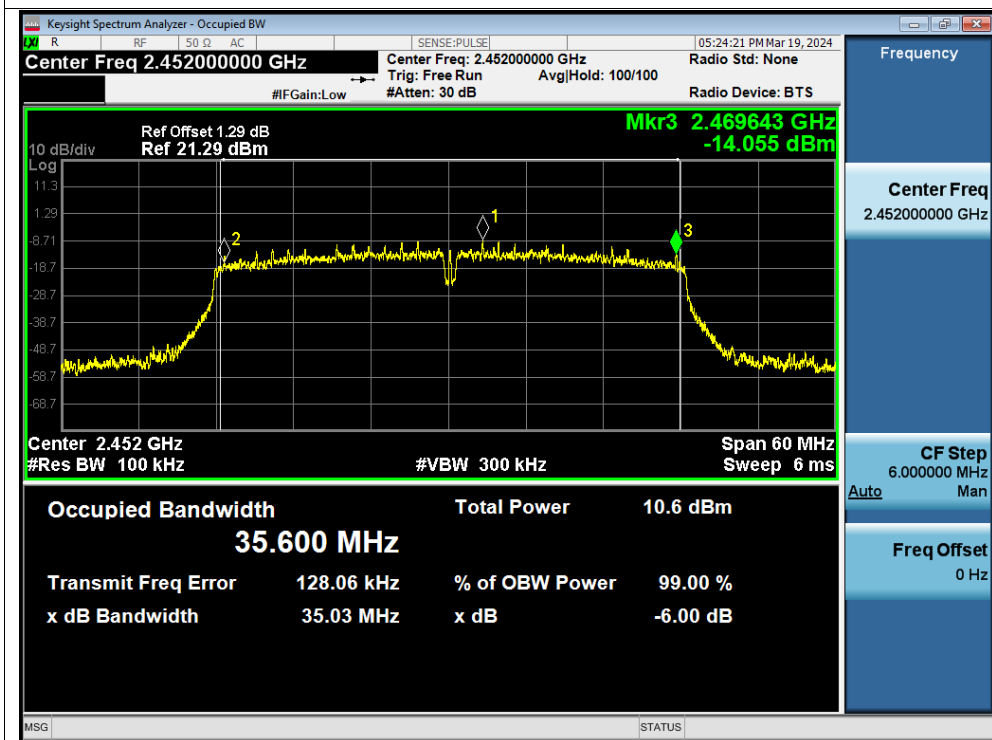
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

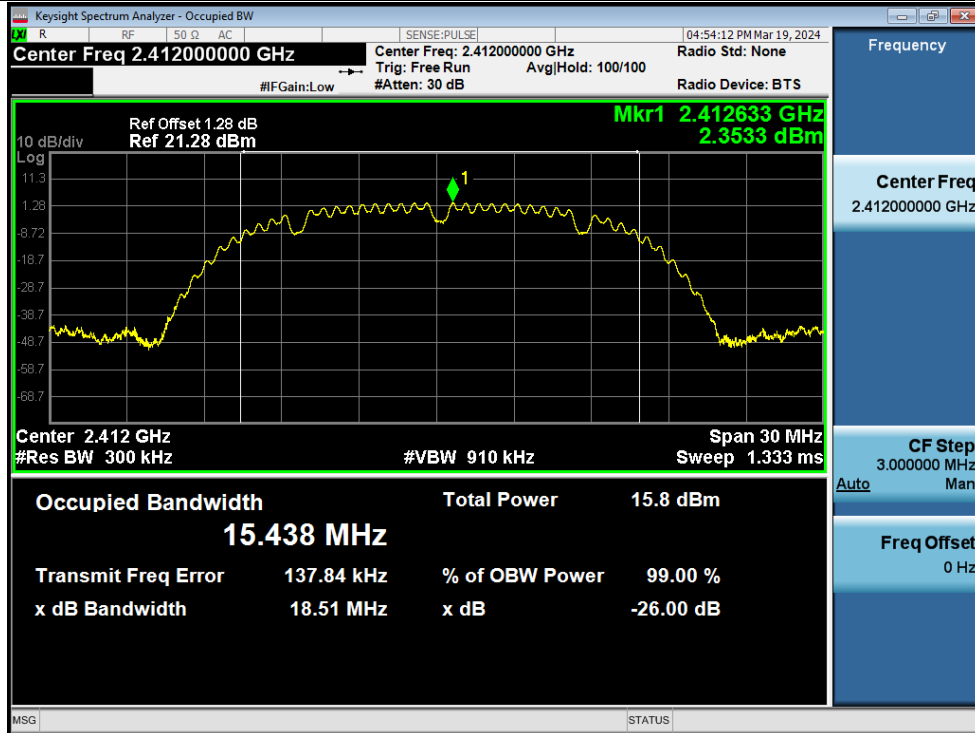


Occupied Channel Bandwidth

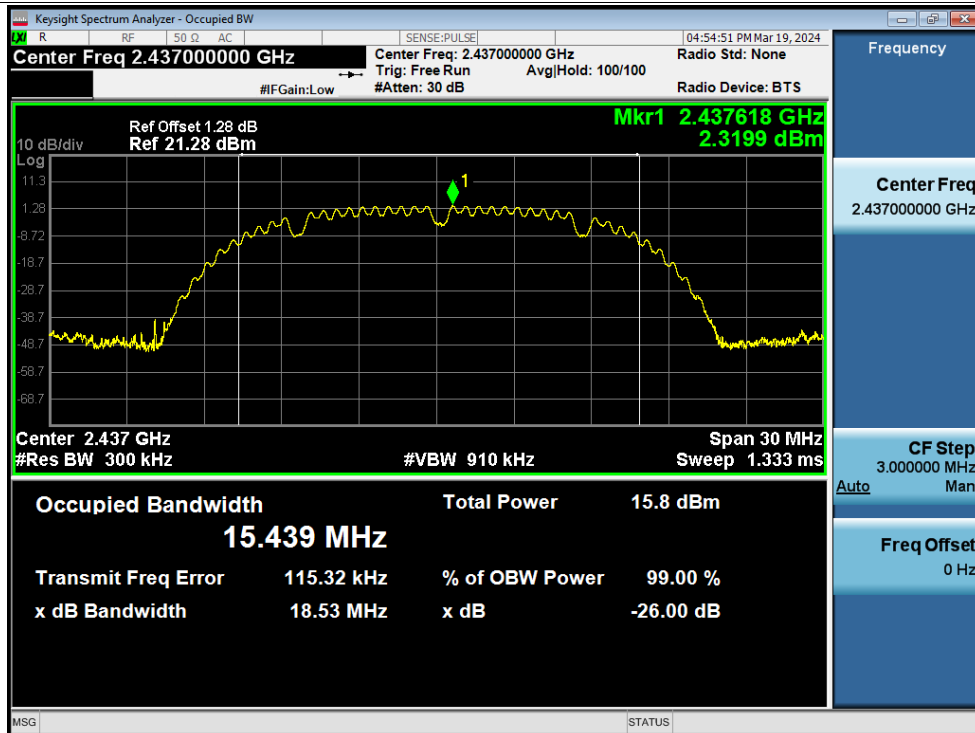
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.438
NVNT	b	2437	Ant1	15.439
NVNT	b	2462	Ant1	15.437
NVNT	g	2412	Ant1	17.261
NVNT	g	2437	Ant1	17.298
NVNT	g	2462	Ant1	17.215
NVNT	n20	2412	Ant1	18.085
NVNT	n20	2437	Ant1	18.23
NVNT	n20	2462	Ant1	18.124
NVNT	n40	2422	Ant1	35.733
NVNT	n40	2437	Ant1	35.746
NVNT	n40	2452	Ant1	35.732

Test Graphs

OBW NVNT b 2412MHz Ant1



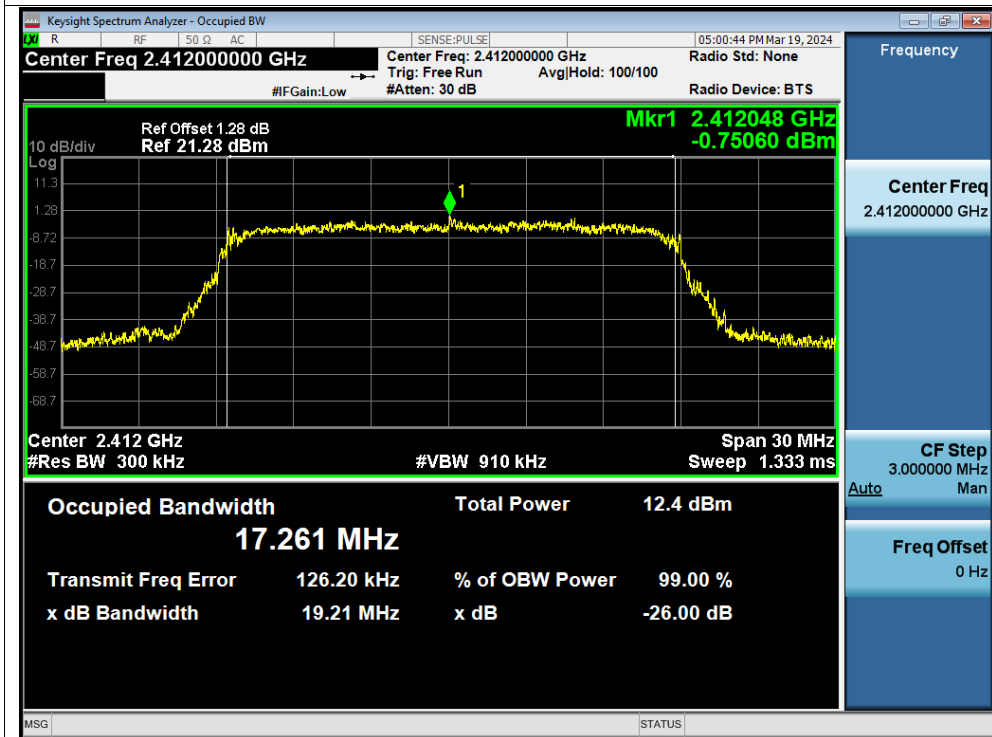
OBW NVNT b 2437MHz Ant1



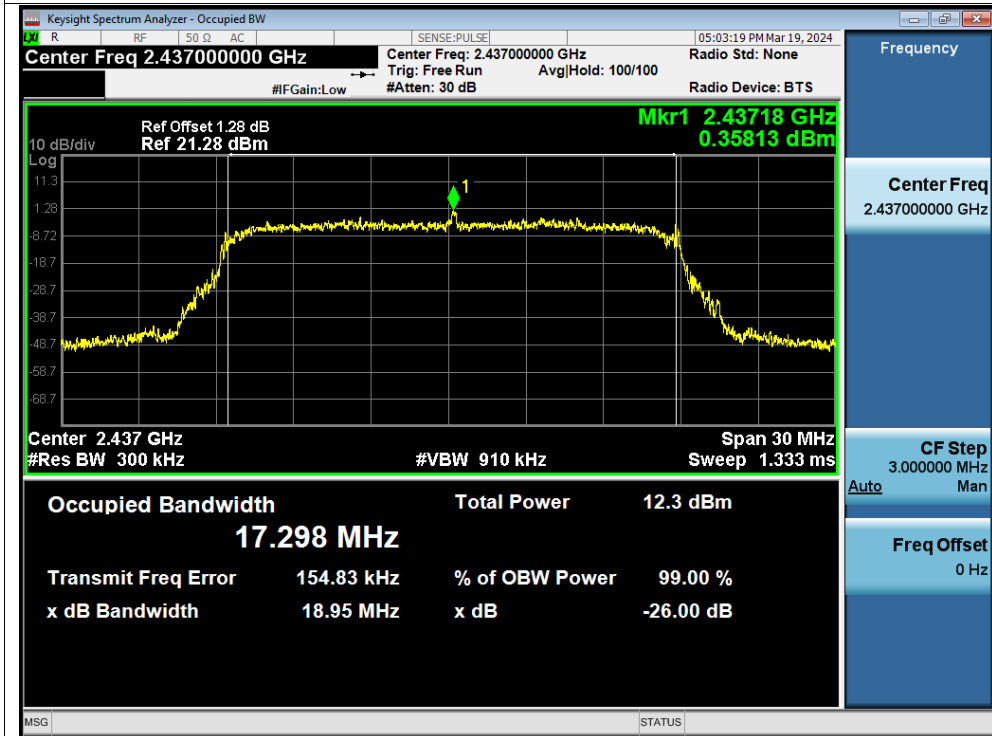
OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



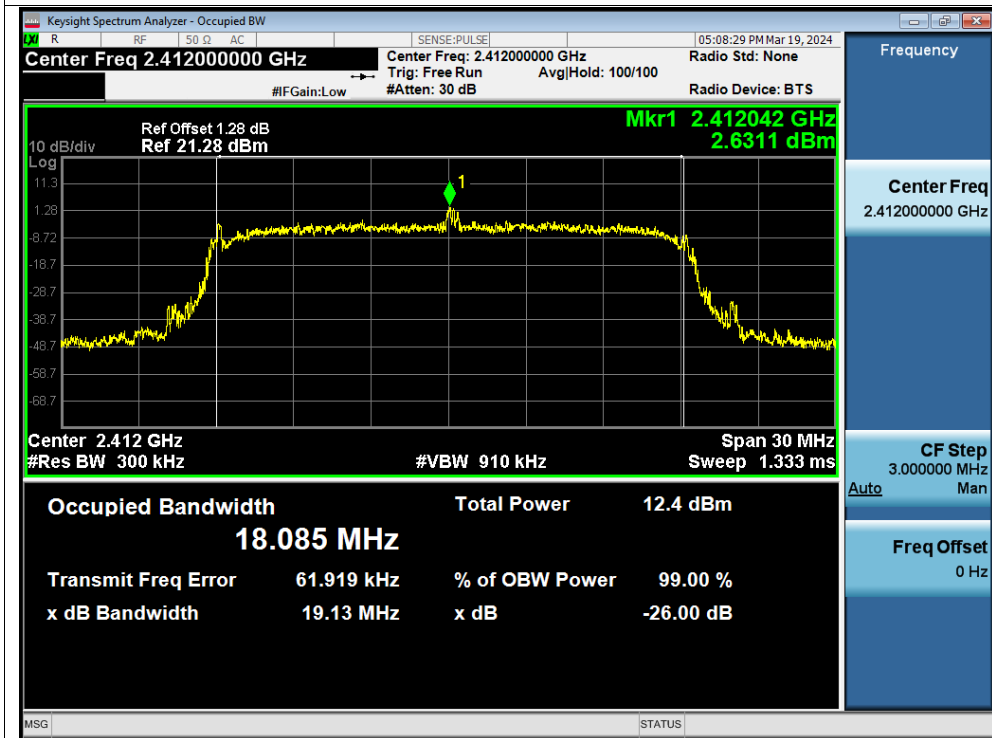
OBW NVNT g 2437MHz Ant1



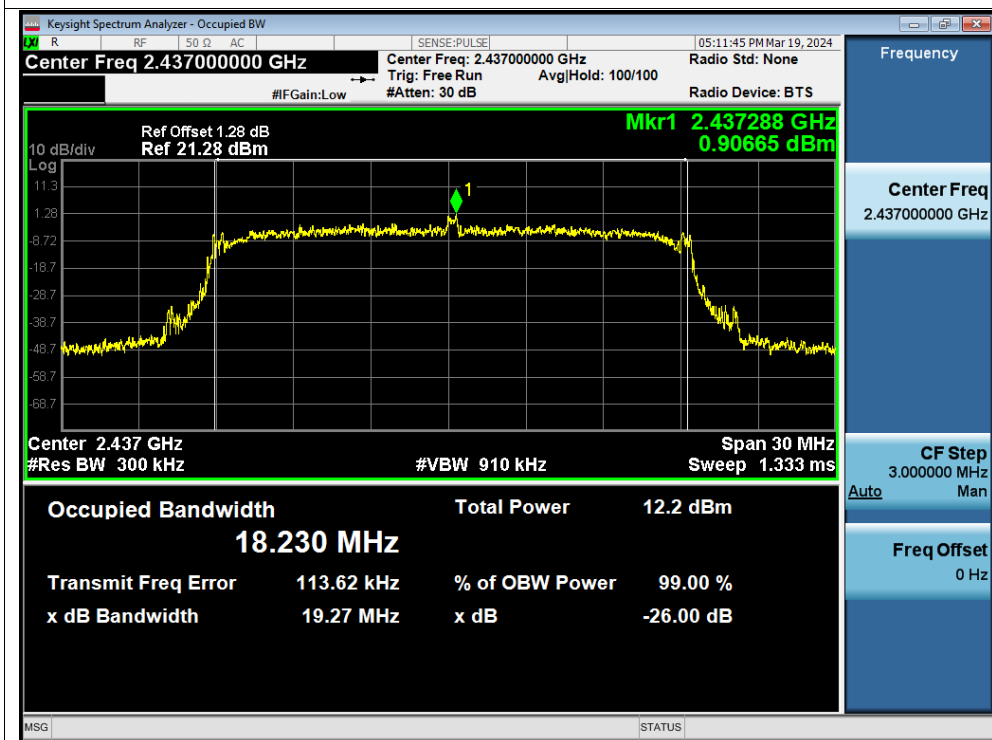
OBW NVNT g 2462MHz Ant1



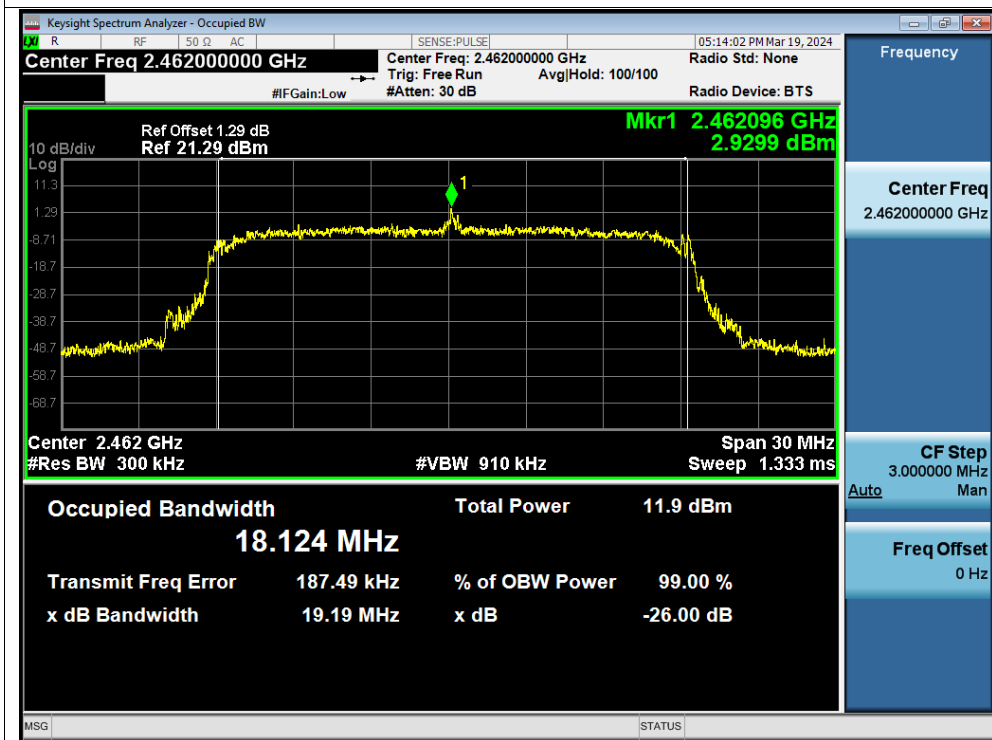
OBW NVNT n20 2412MHz Ant1



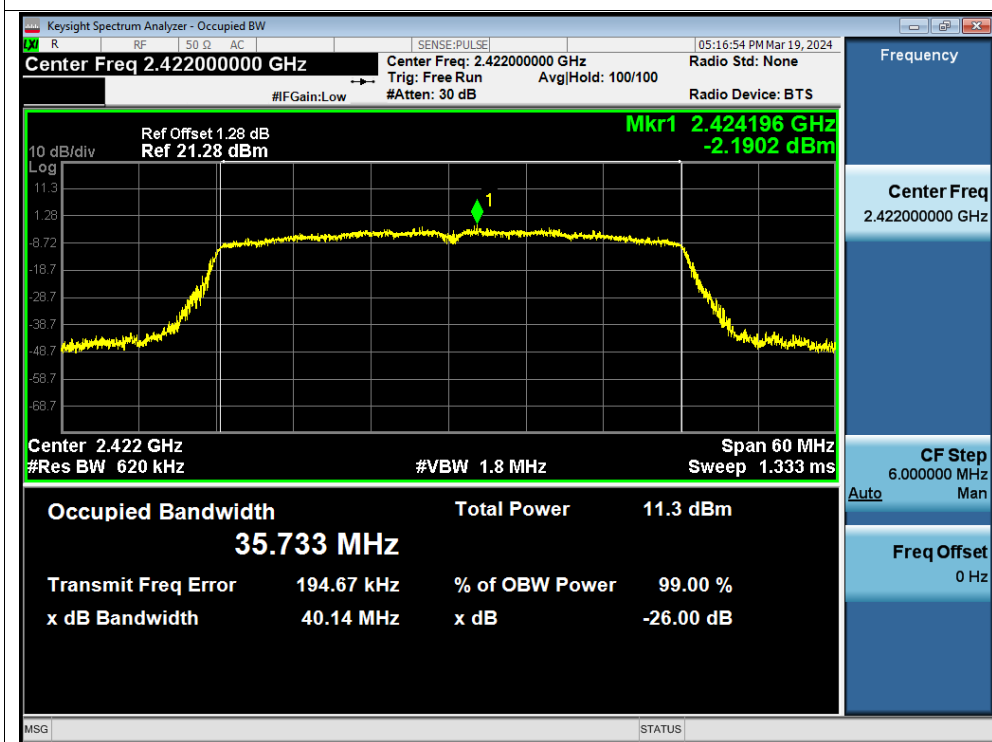
OBW NVNT n20 2437MHz Ant1



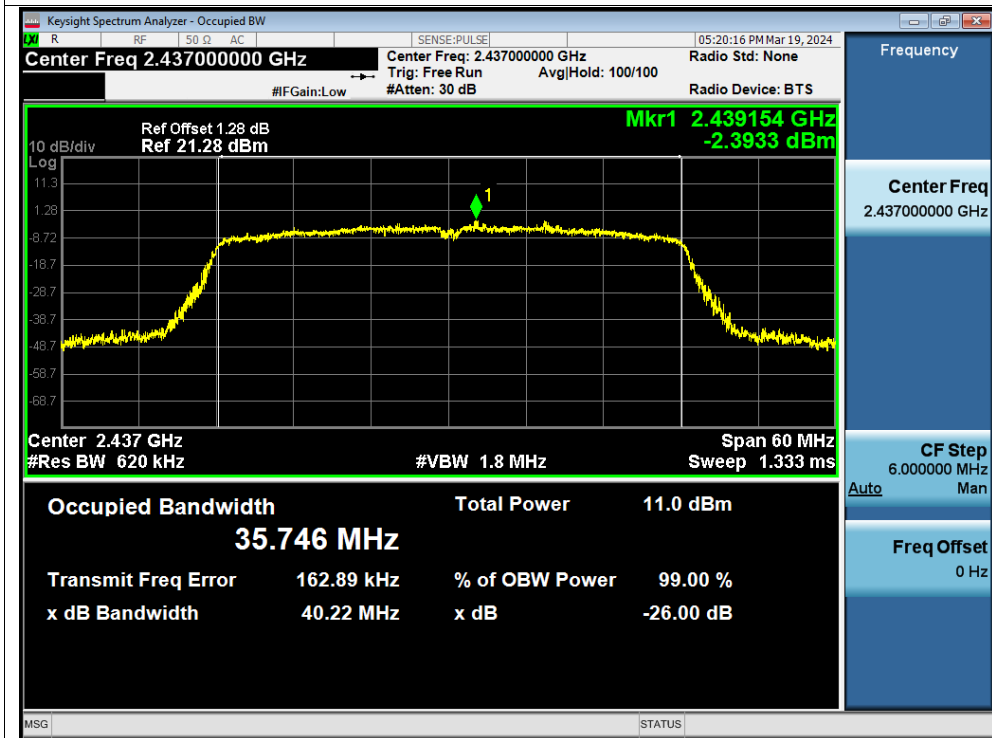
OBW NVNT n20 2462MHz Ant1



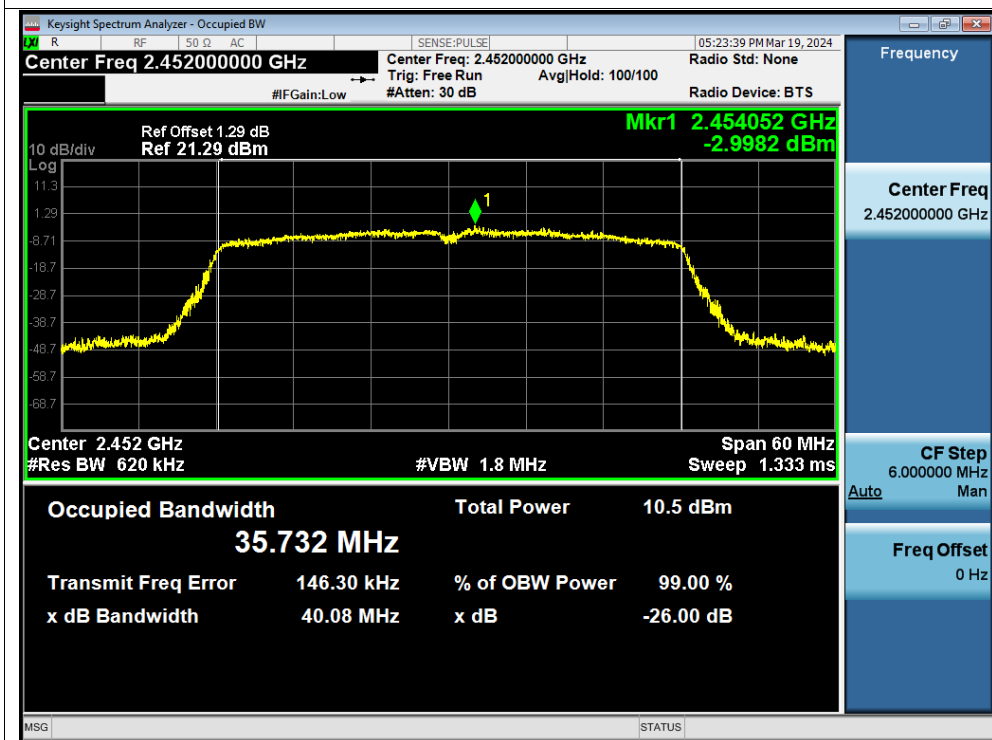
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



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	-11.92	0	-11.92	8	Pass
NVNT	b	2437	Ant1	-12.35	0	-12.35	8	Pass
NVNT	b	2462	Ant1	-12.66	0	-12.66	8	Pass
NVNT	g	2412	Ant1	-13.25	0	-13.25	8	Pass
NVNT	g	2437	Ant1	-13.58	0	-13.58	8	Pass
NVNT	g	2462	Ant1	-13.71	0	-13.71	8	Pass
NVNT	n20	2412	Ant1	-12.38	0	-12.38	8	Pass
NVNT	n20	2437	Ant1	-12.42	0	-12.42	8	Pass
NVNT	n20	2462	Ant1	-12.58	0	-12.58	8	Pass
NVNT	n40	2422	Ant1	-12.43	0	-12.43	8	Pass
NVNT	n40	2437	Ant1	-13.25	0	-13.25	8	Pass
NVNT	n40	2452	Ant1	-13.8	0	-13.8	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1



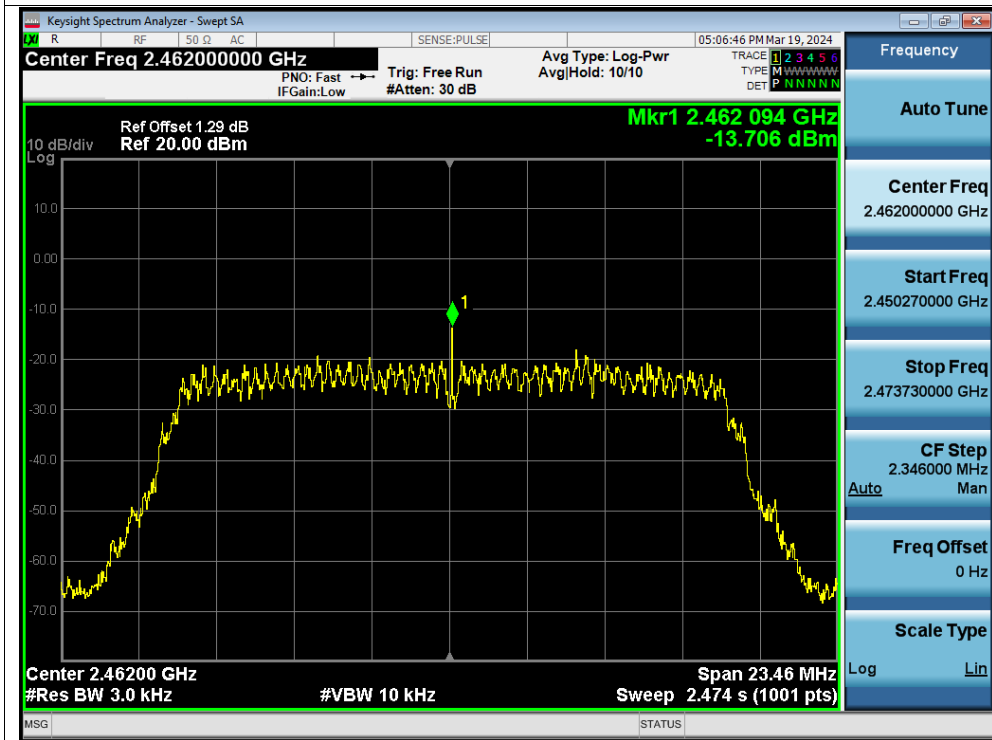
PSD NVNT g 2412MHz Ant1



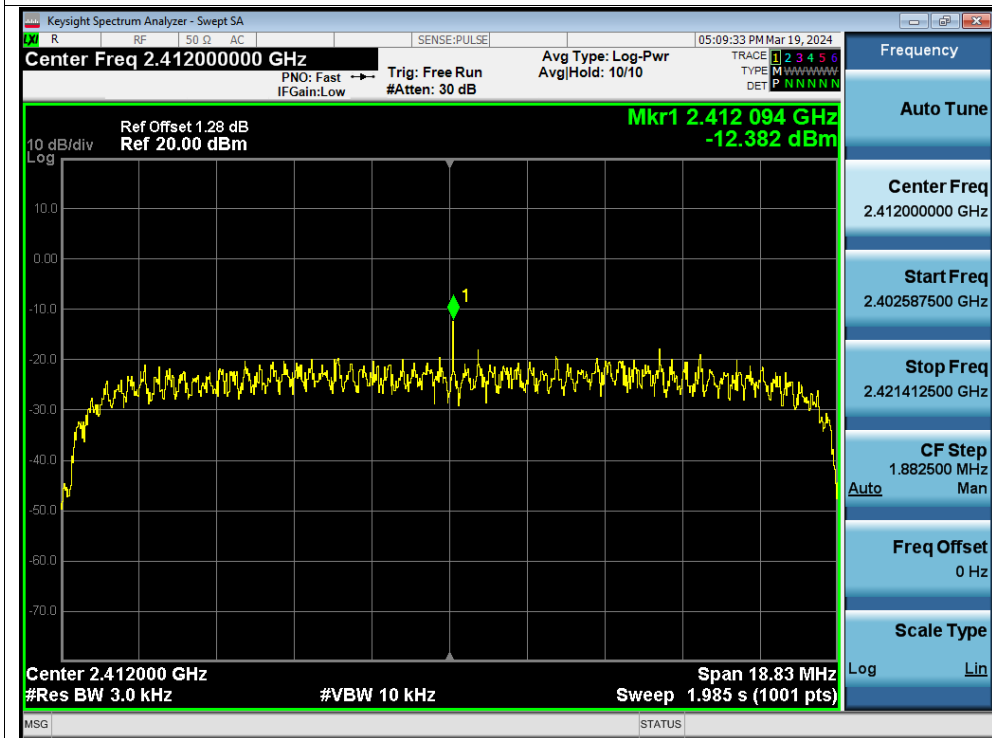
PSD NVNT g 2437MHz Ant1



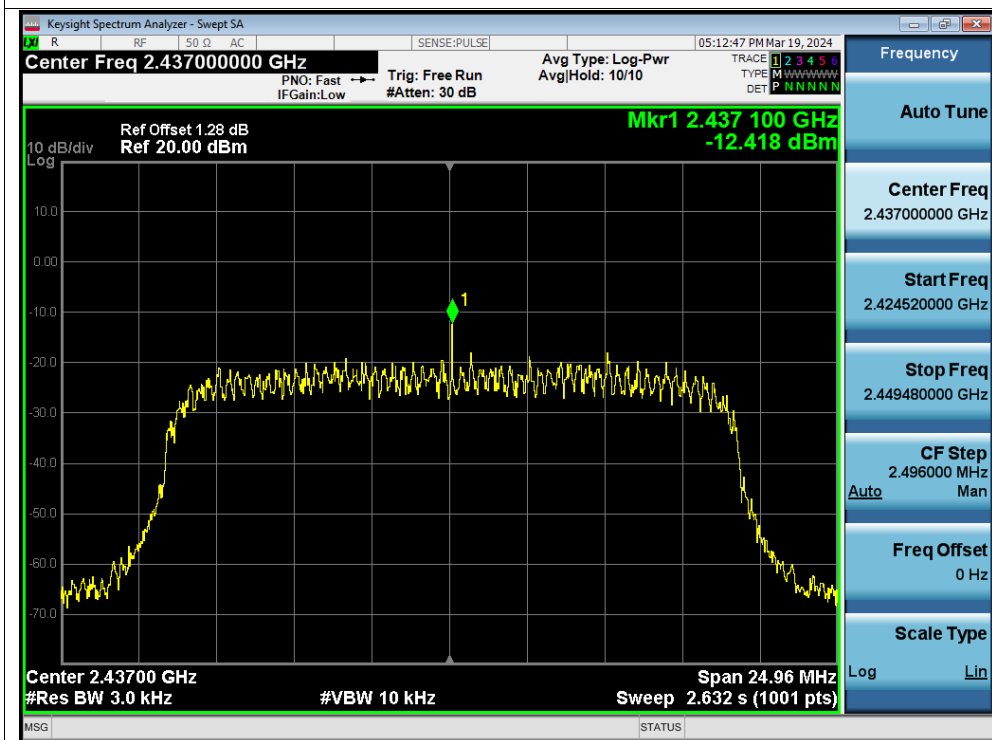
PSD NVNT g 2462MHz Ant1



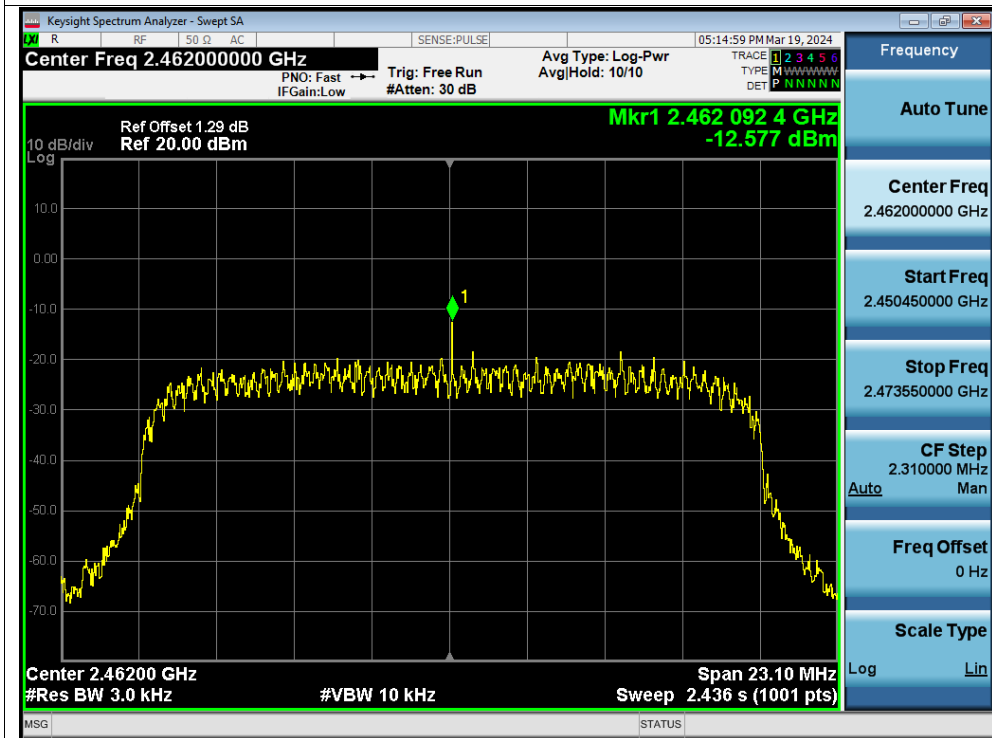
PSD NVNT n20 2412MHz Ant1



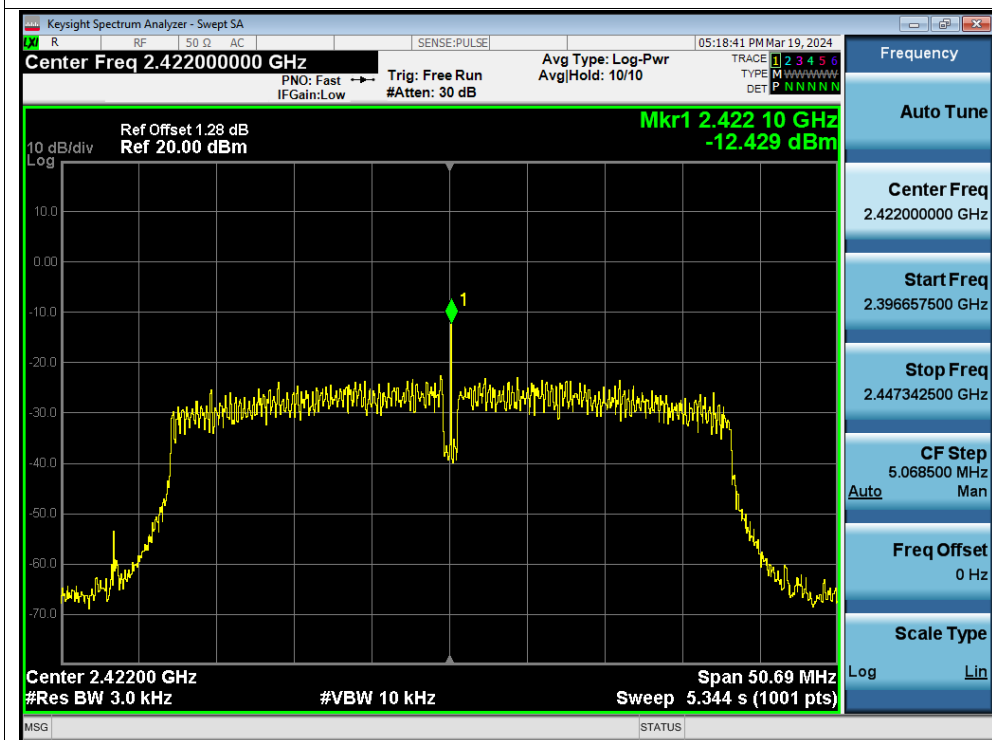
PSD NVNT n20 2437MHz Ant1



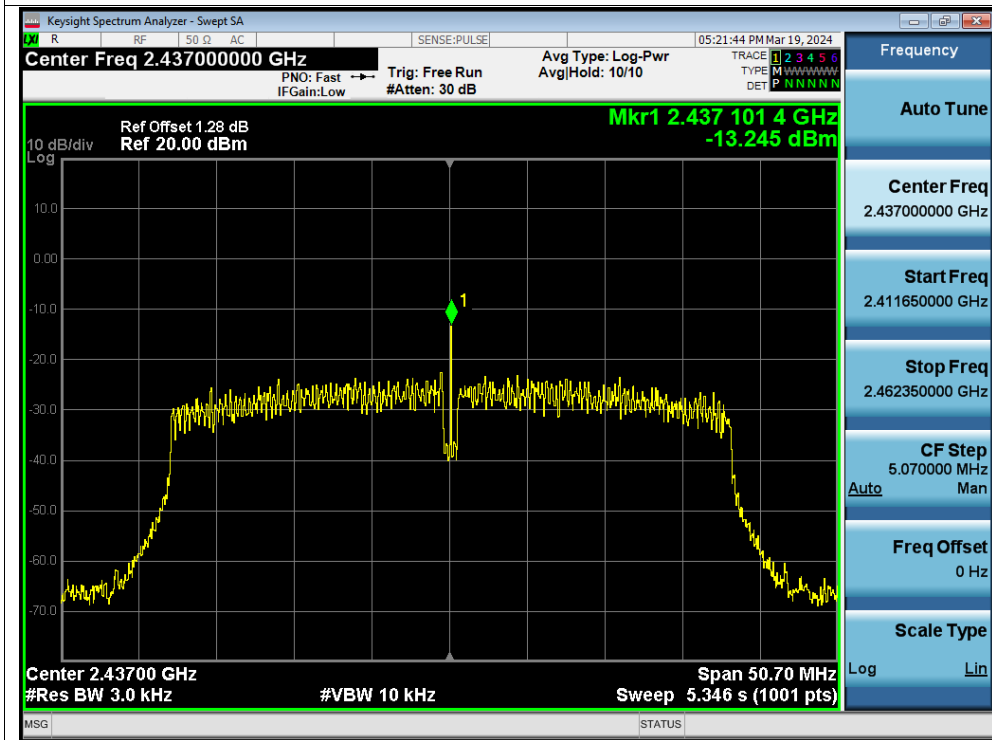
PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



Band Edge

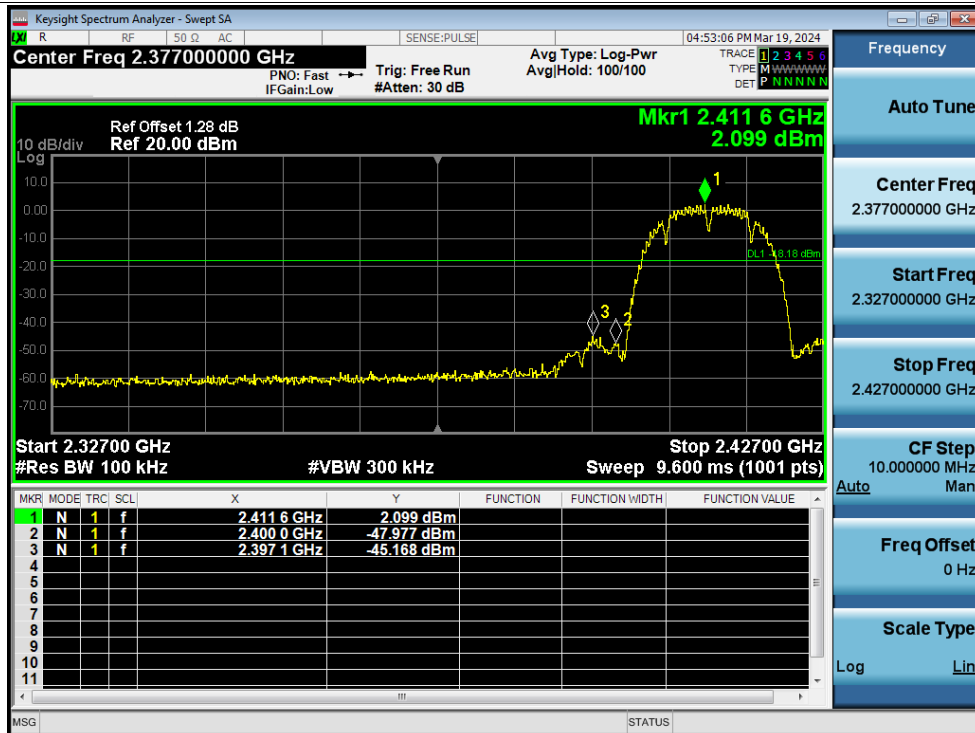
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.99	-20	Pass
NVNT	b	2462	Ant1	-56.74	-20	Pass
NVNT	g	2412	Ant1	-41.56	-20	Pass
NVNT	g	2462	Ant1	-51.32	-20	Pass
NVNT	n20	2412	Ant1	-42.59	-20	Pass
NVNT	n20	2462	Ant1	-51.79	-20	Pass
NVNT	n40	2422	Ant1	-37.22	-20	Pass
NVNT	n40	2452	Ant1	-44.67	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



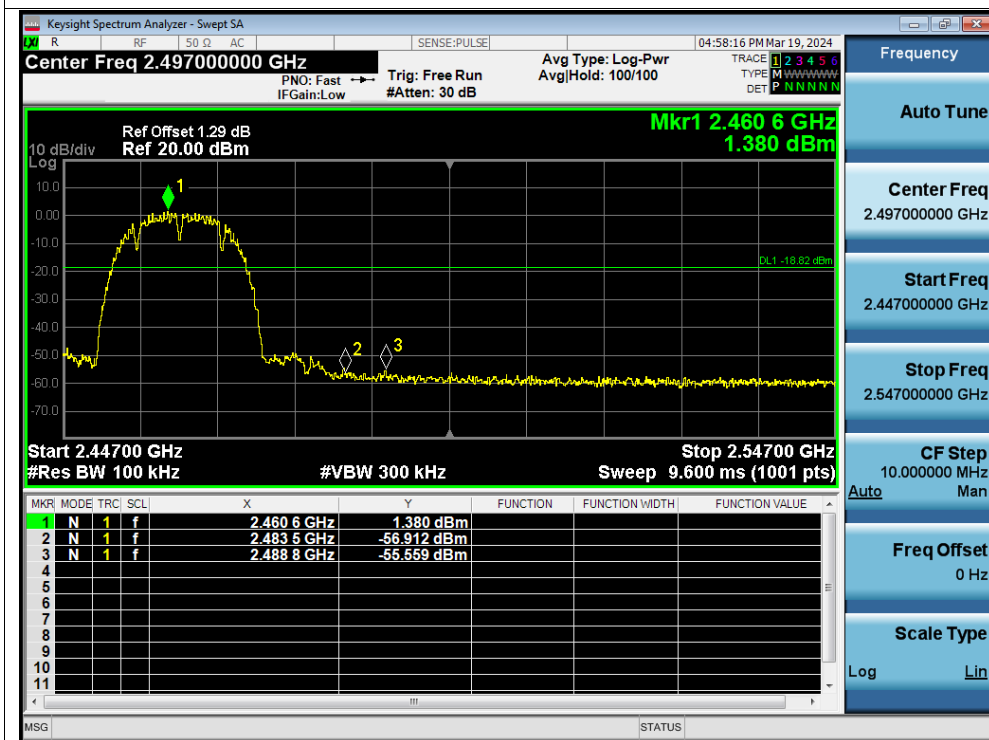
Band Edge NVNT b 2412MHz Ant1 Emission



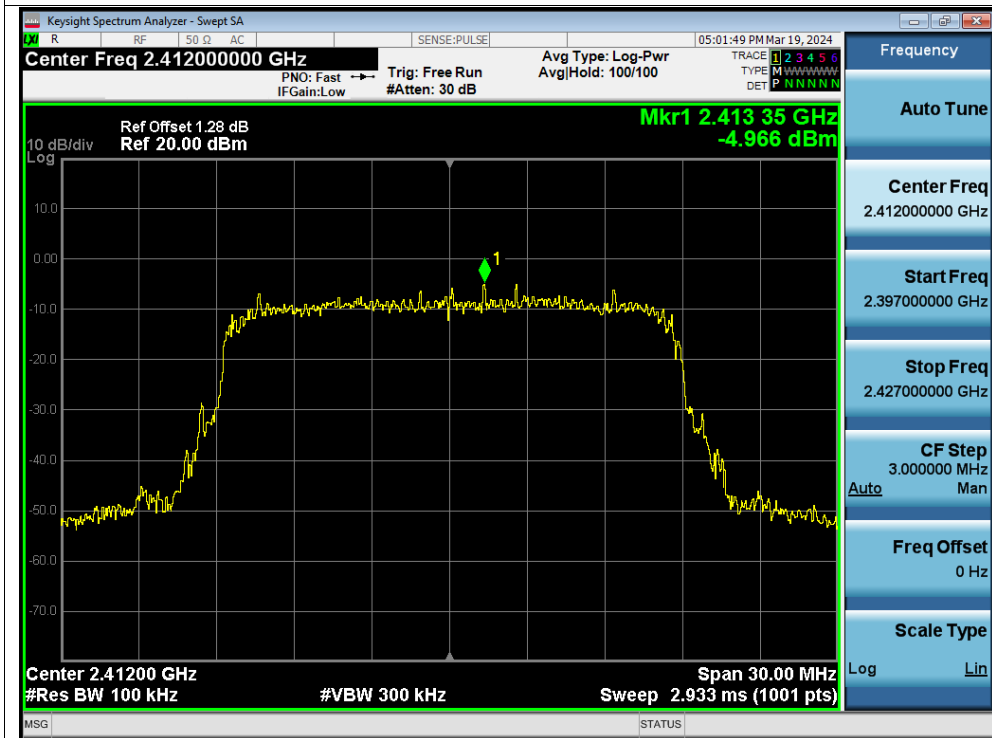
Band Edge NVNT b 2462MHz Ant1 Ref



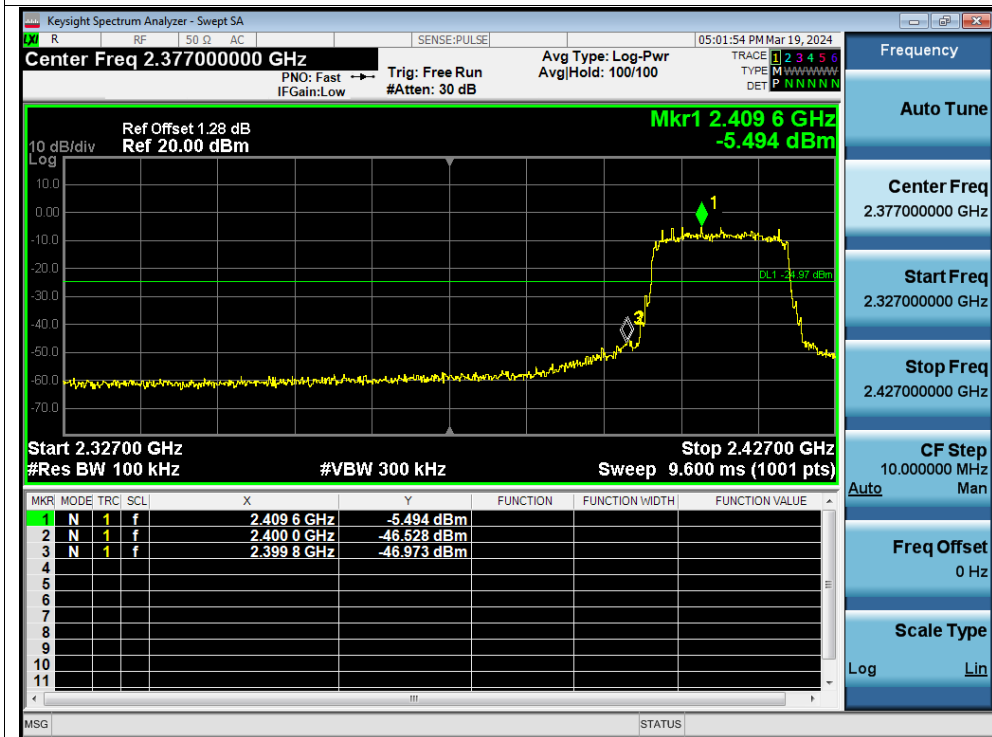
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



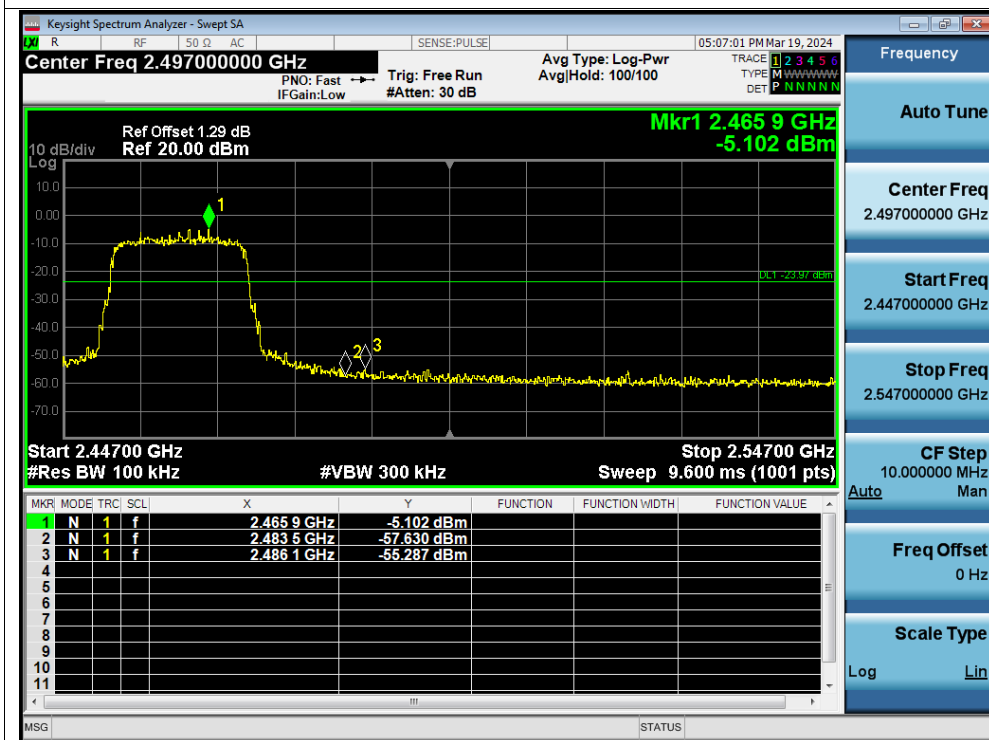
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



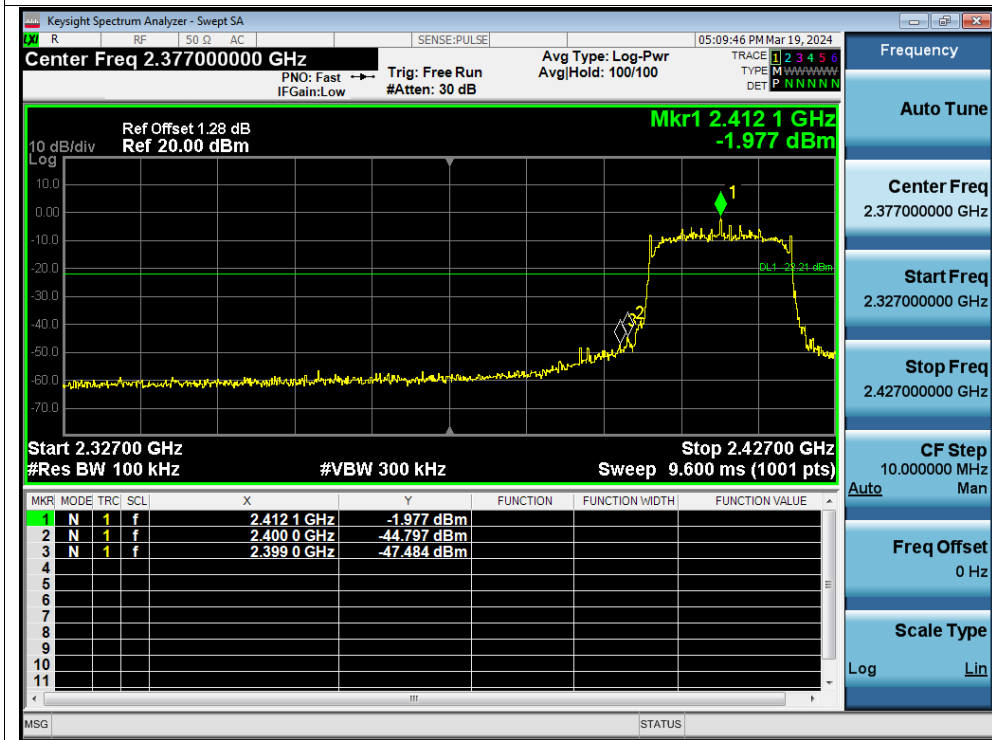
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



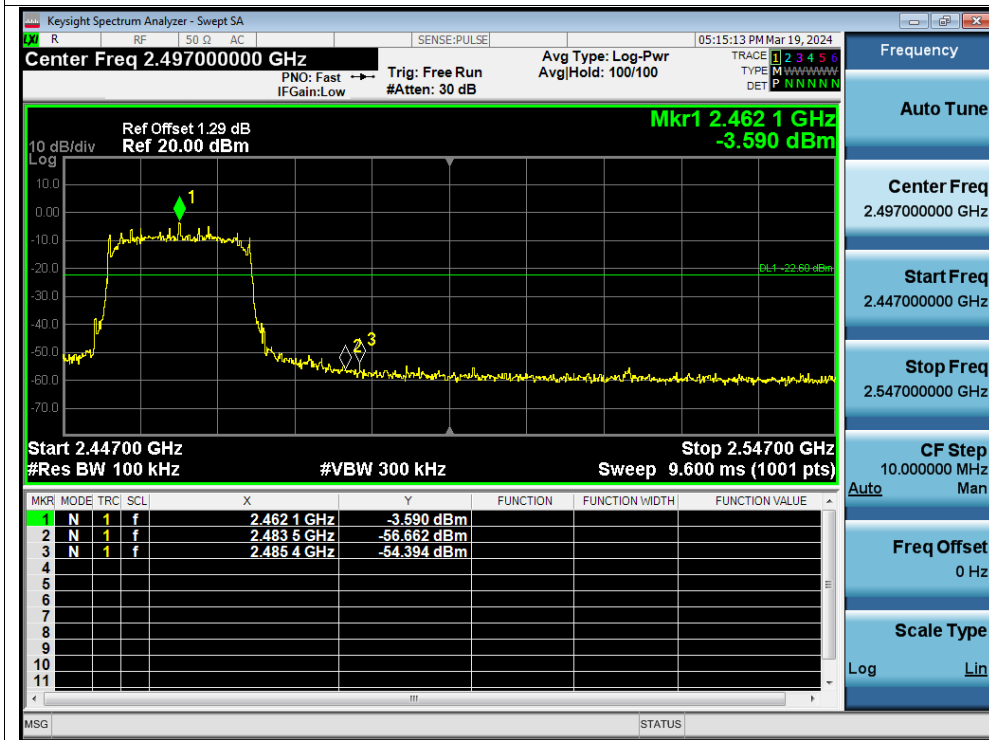
Band Edge NVNT n20 2412MHz Ant1 Emission



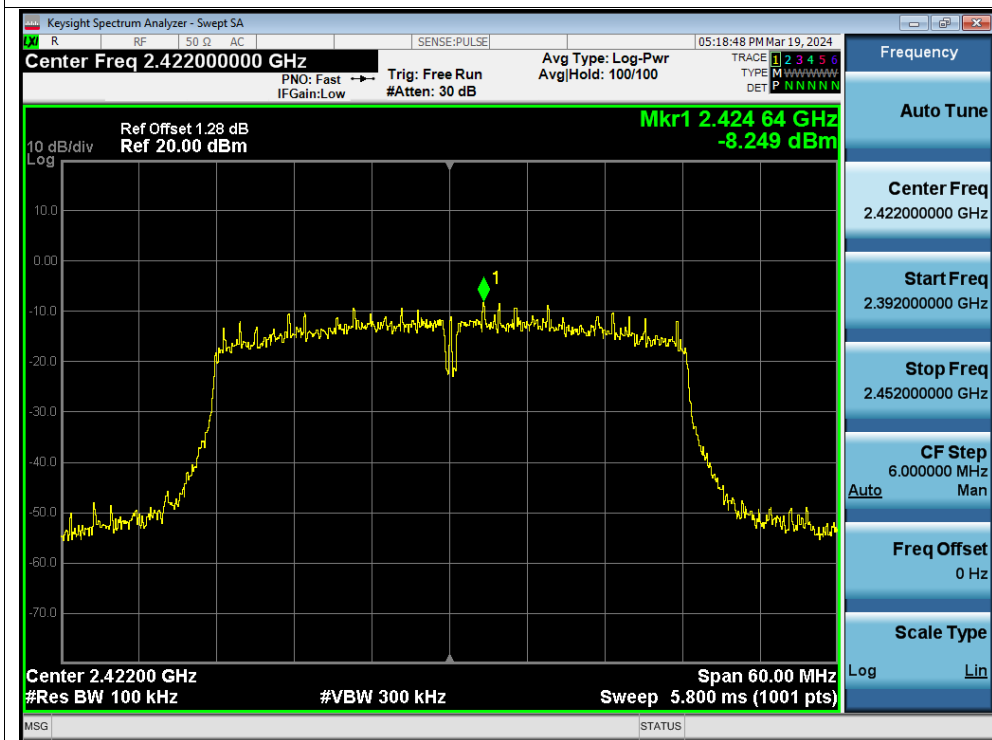
Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



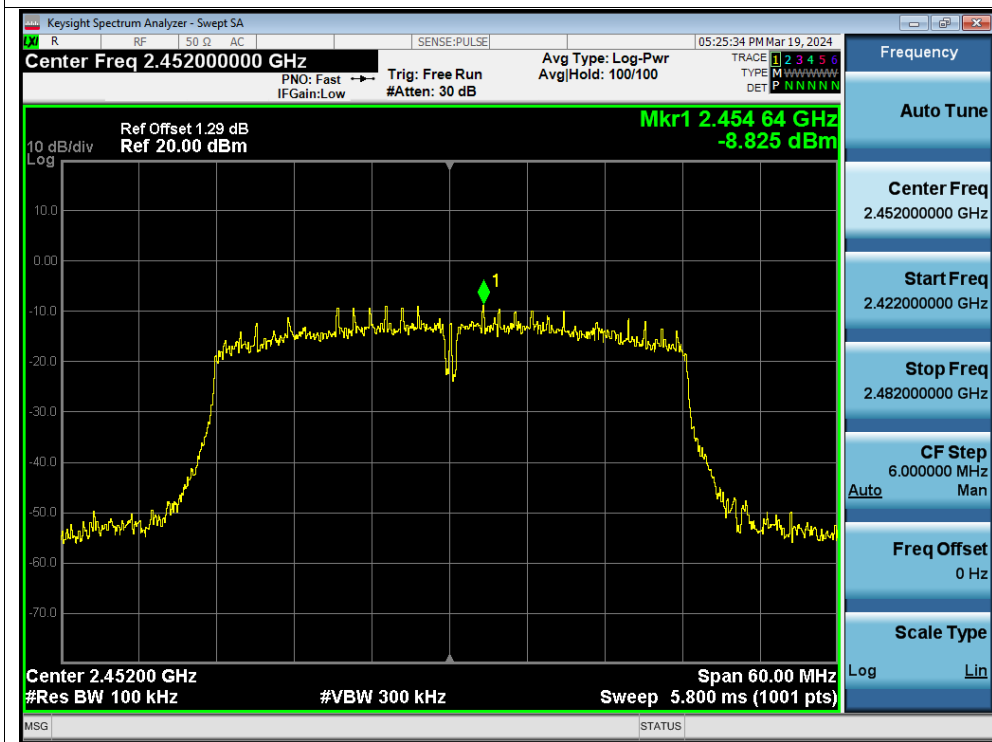
Band Edge NVNT n40 2422MHz Ant1 Ref



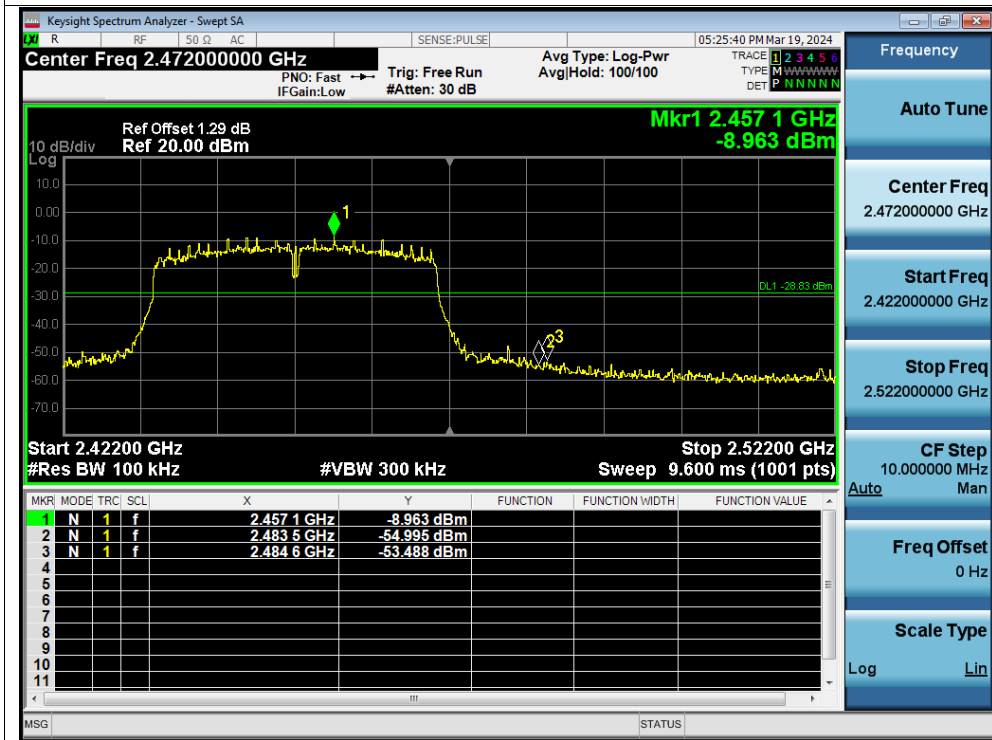
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



Conducted RF Spurious Emission

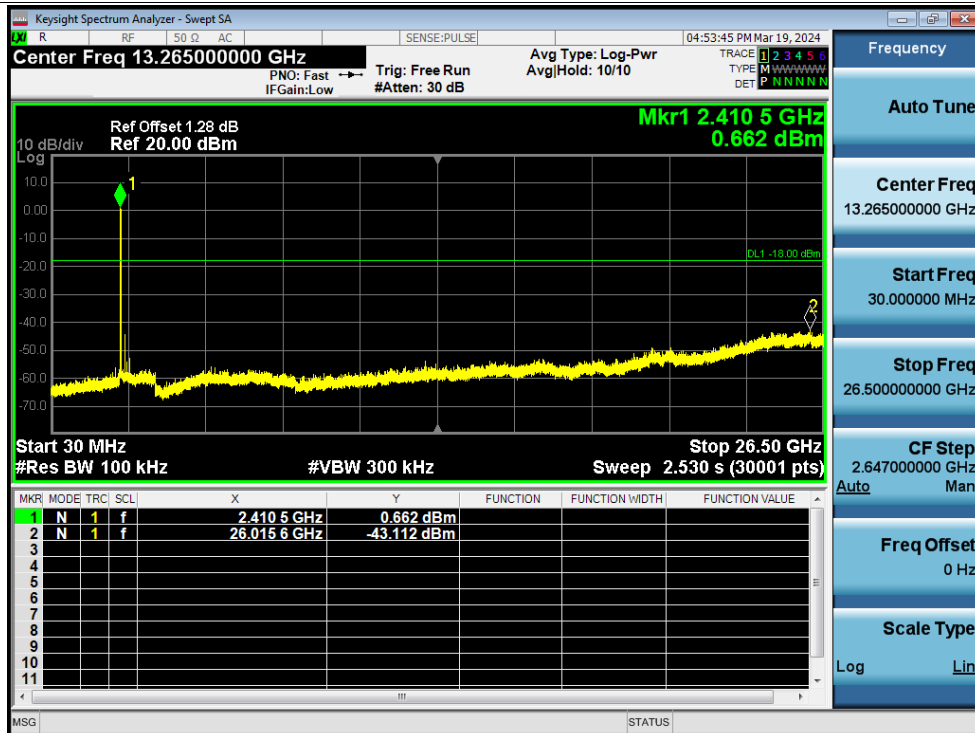
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.11	-20	Pass
NVNT	b	2437	Ant1	-43.85	-20	Pass
NVNT	b	2462	Ant1	-44.69	-20	Pass
NVNT	g	2412	Ant1	-38.67	-20	Pass
NVNT	g	2437	Ant1	-37.23	-20	Pass
NVNT	g	2462	Ant1	-38.1	-20	Pass
NVNT	n20	2412	Ant1	-40.32	-20	Pass
NVNT	n20	2437	Ant1	-40.91	-20	Pass
NVNT	n20	2462	Ant1	-39.62	-20	Pass
NVNT	n40	2422	Ant1	-34.74	-20	Pass
NVNT	n40	2437	Ant1	-34.39	-20	Pass
NVNT	n40	2452	Ant1	-33.46	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



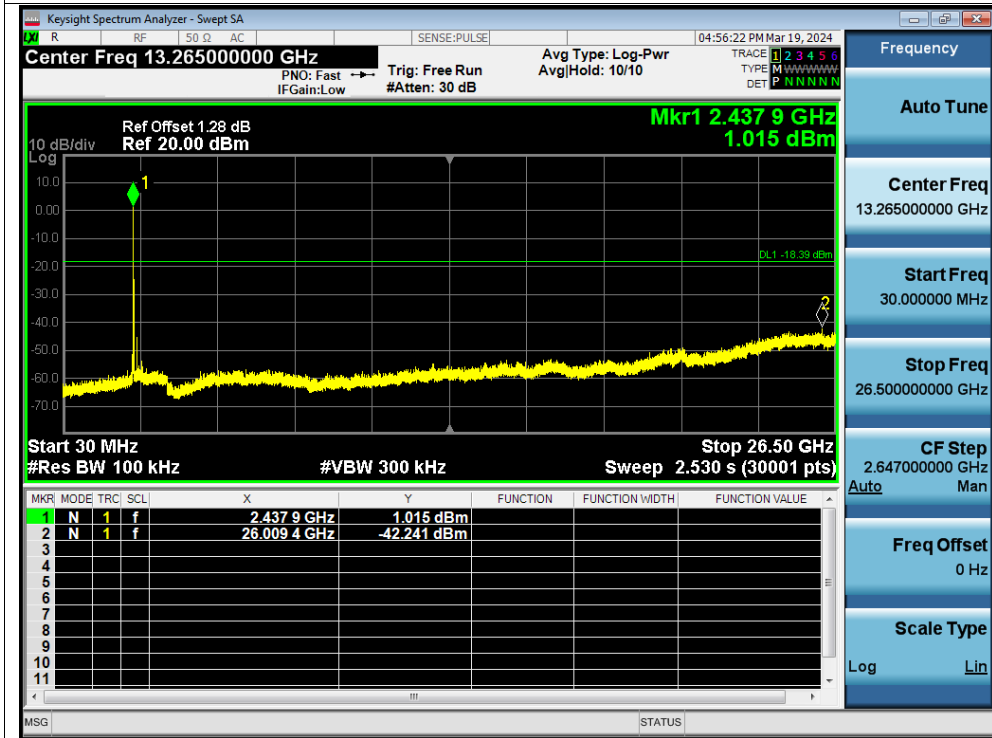
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



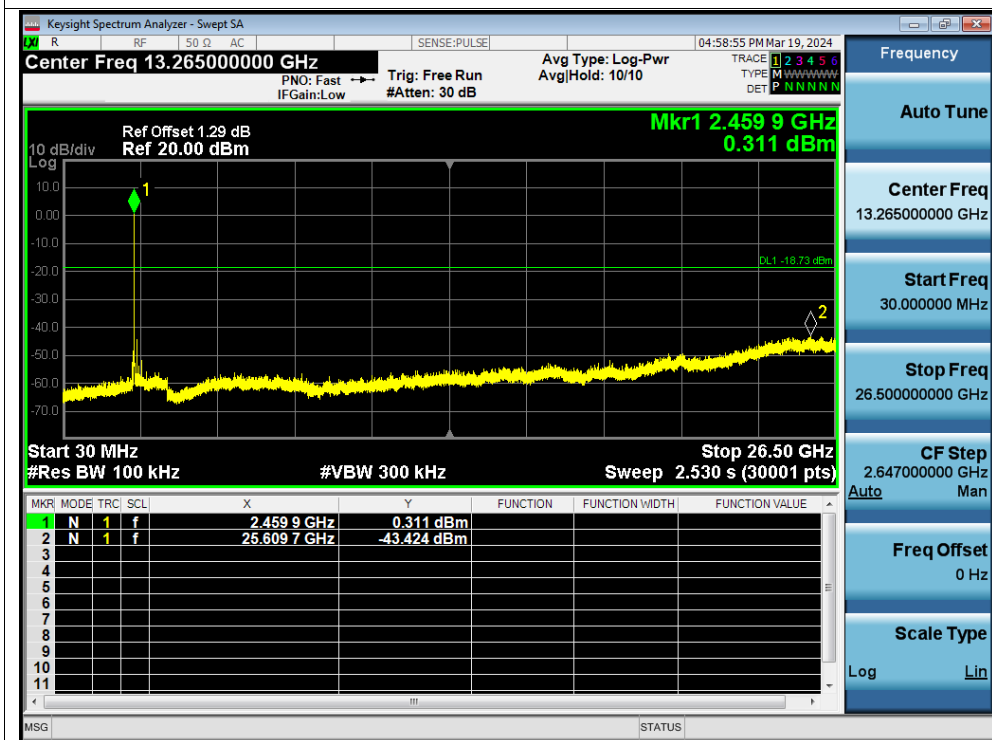
Tx. Spurious NVNT b 2437MHz Ant1 Emission



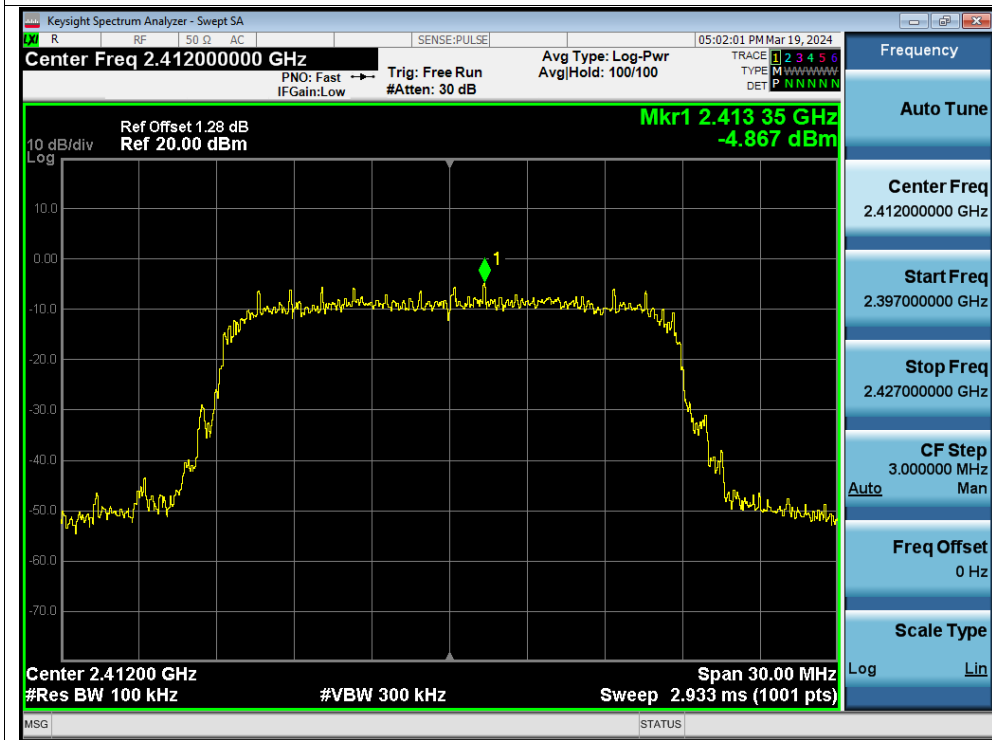
Tx. Spurious NVNT b 2462MHz Ant1 Ref



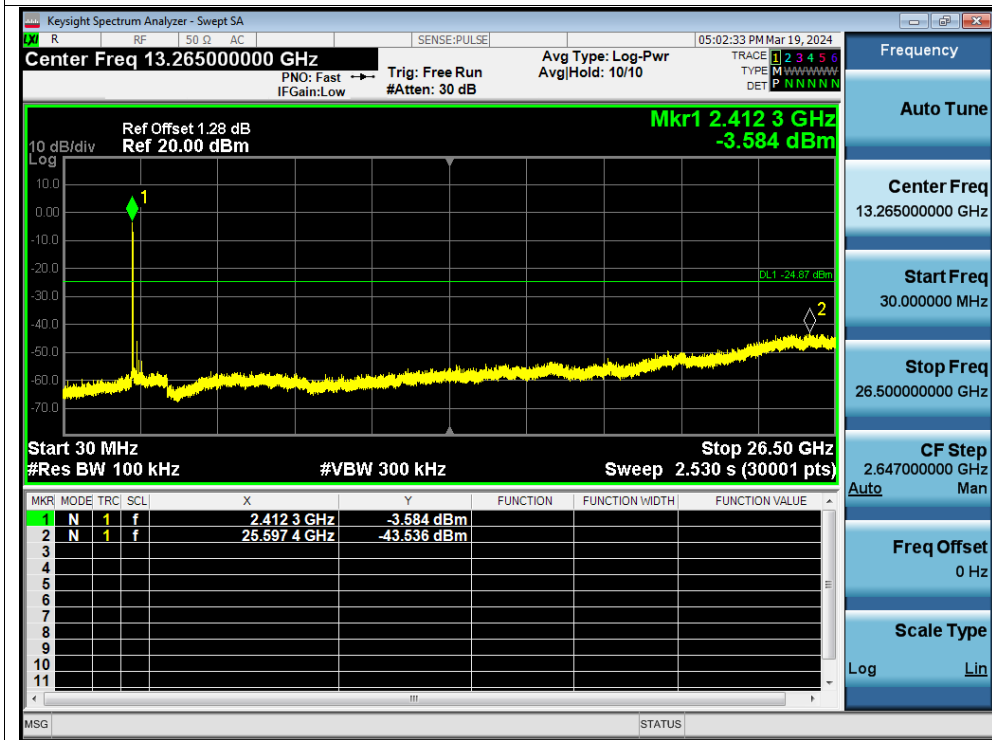
Tx. Spurious NVNT b 2462MHz Ant1 Emission



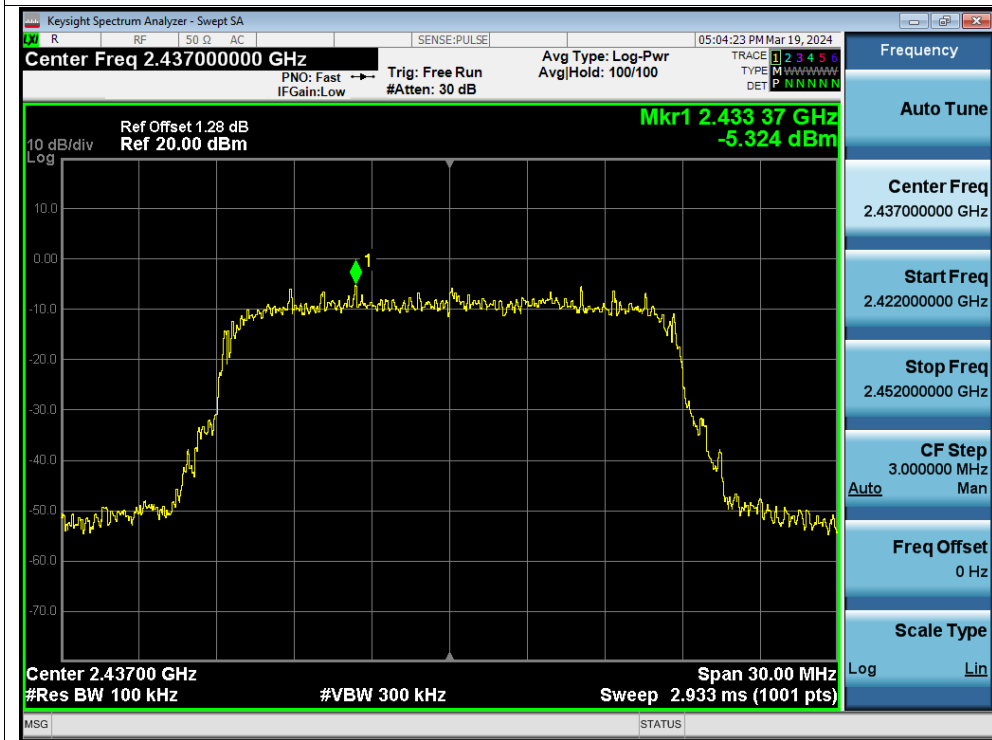
Tx. Spurious NVNT g 2412MHz Ant1 Ref



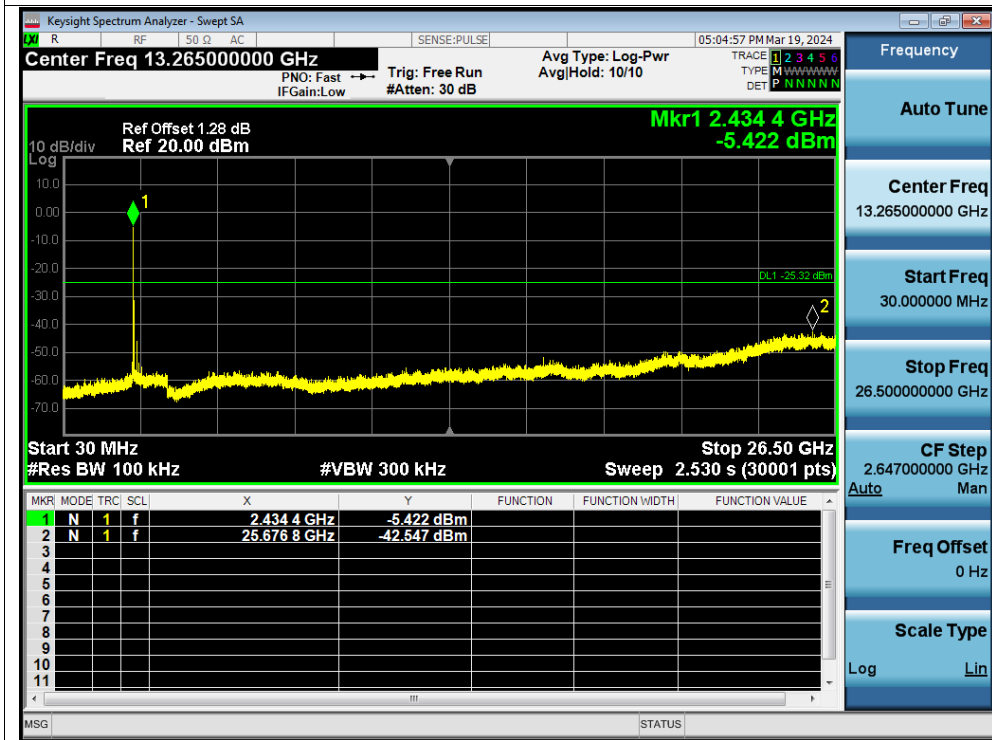
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



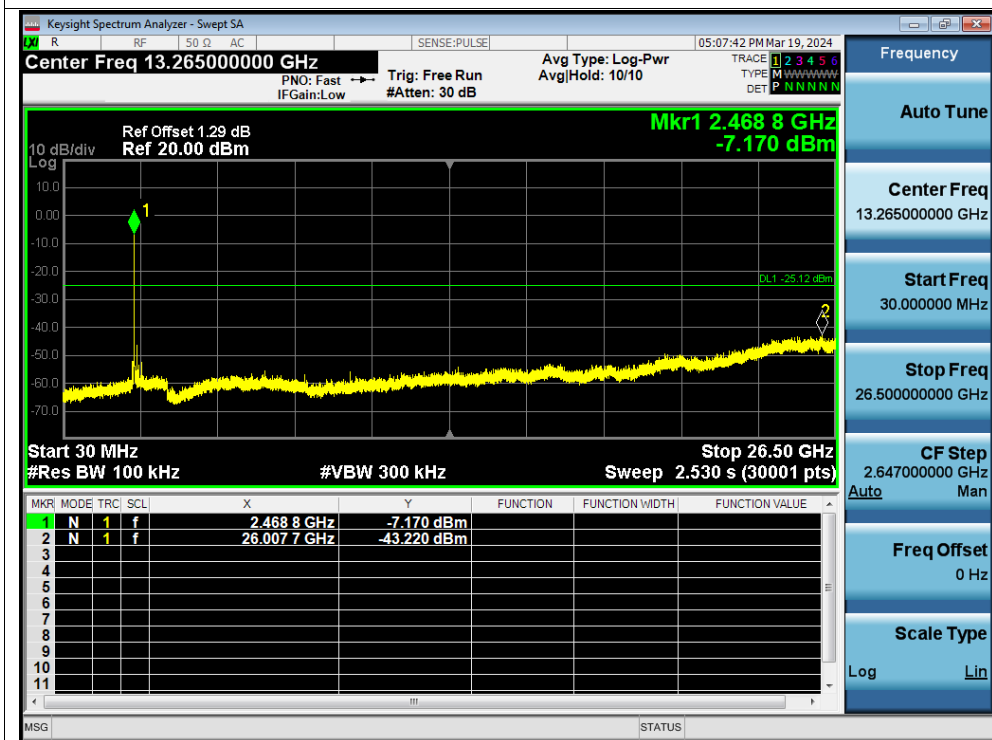
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



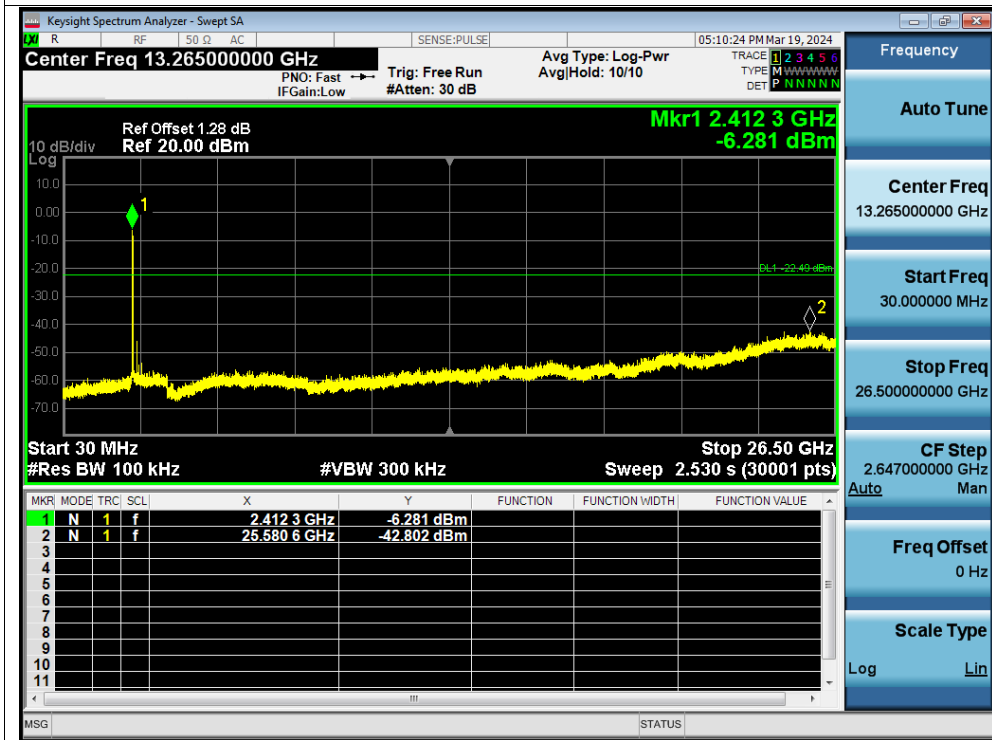
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



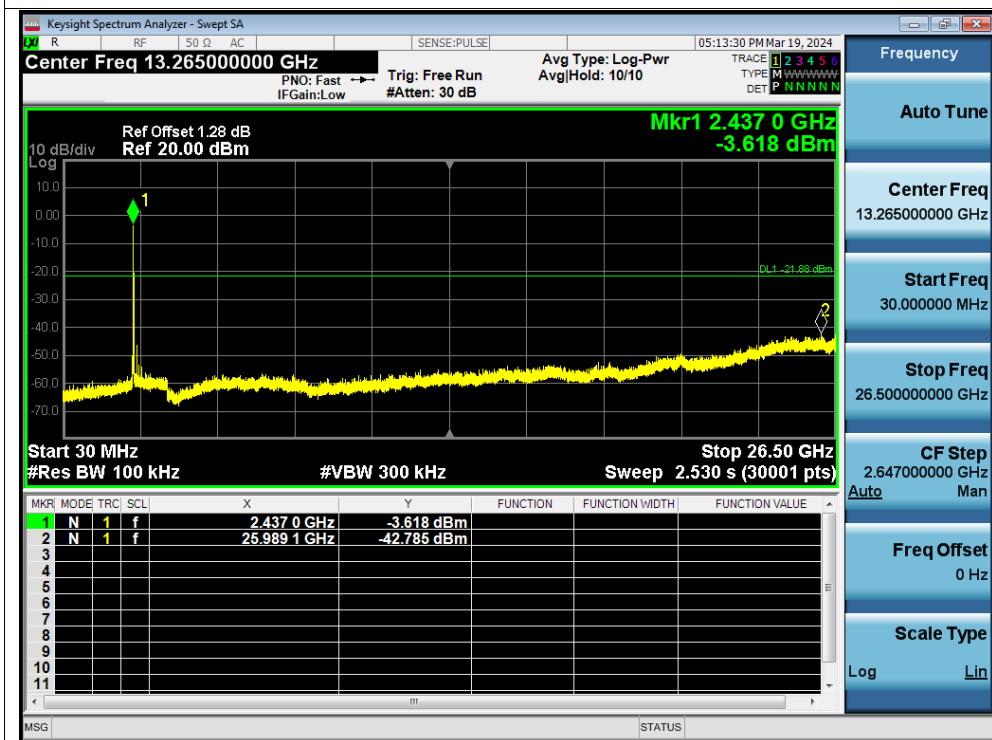
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



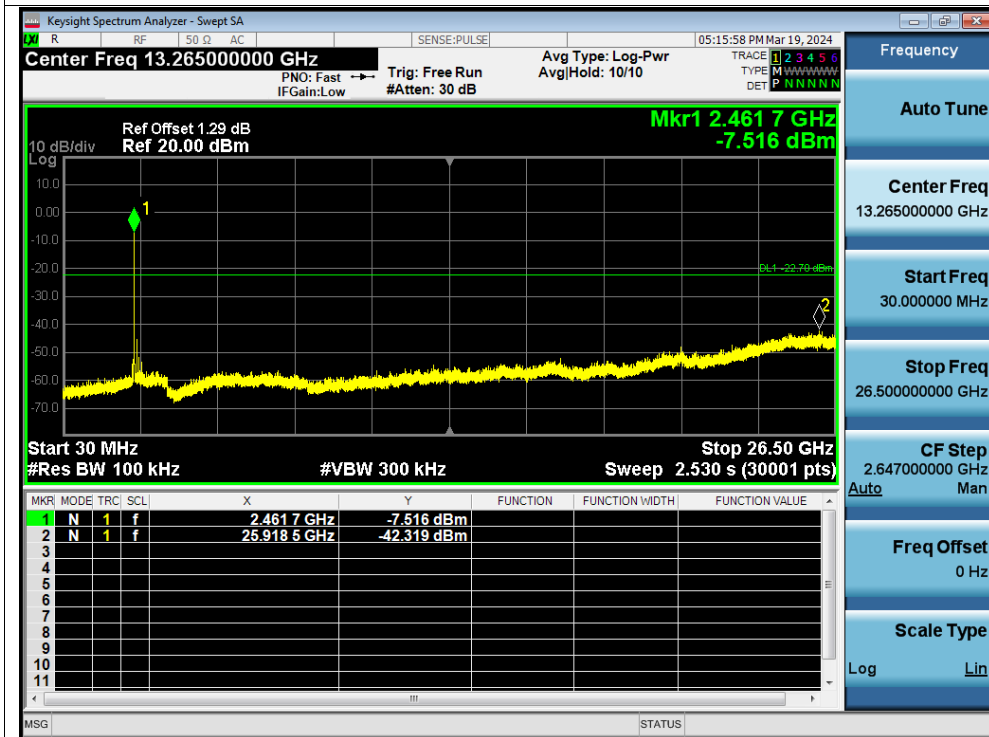
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



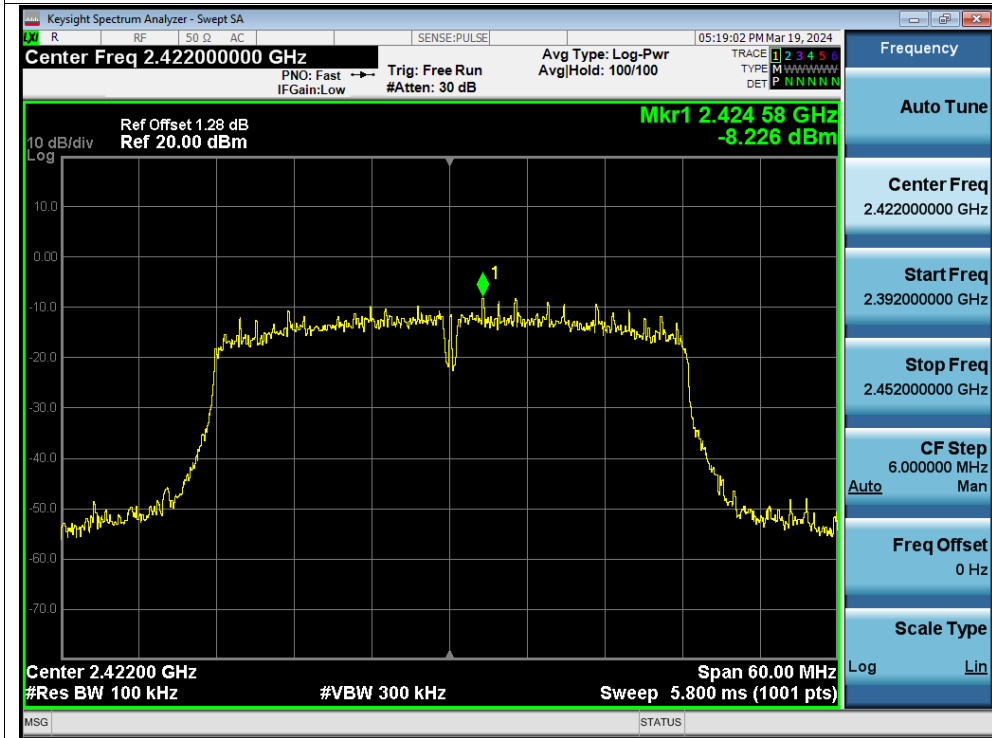
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



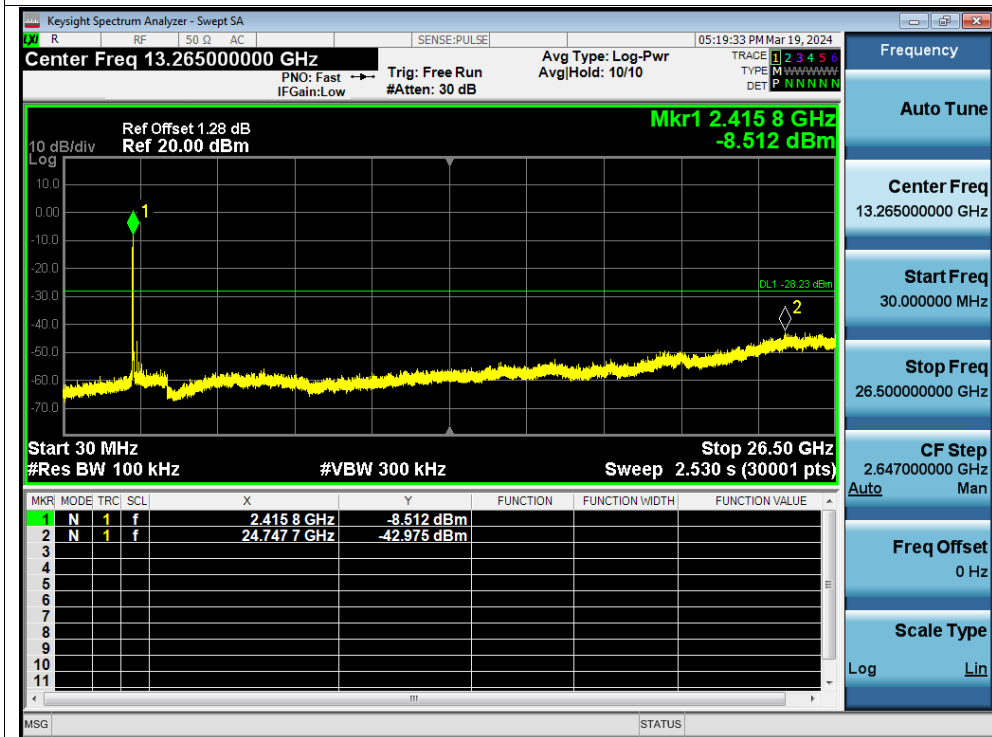
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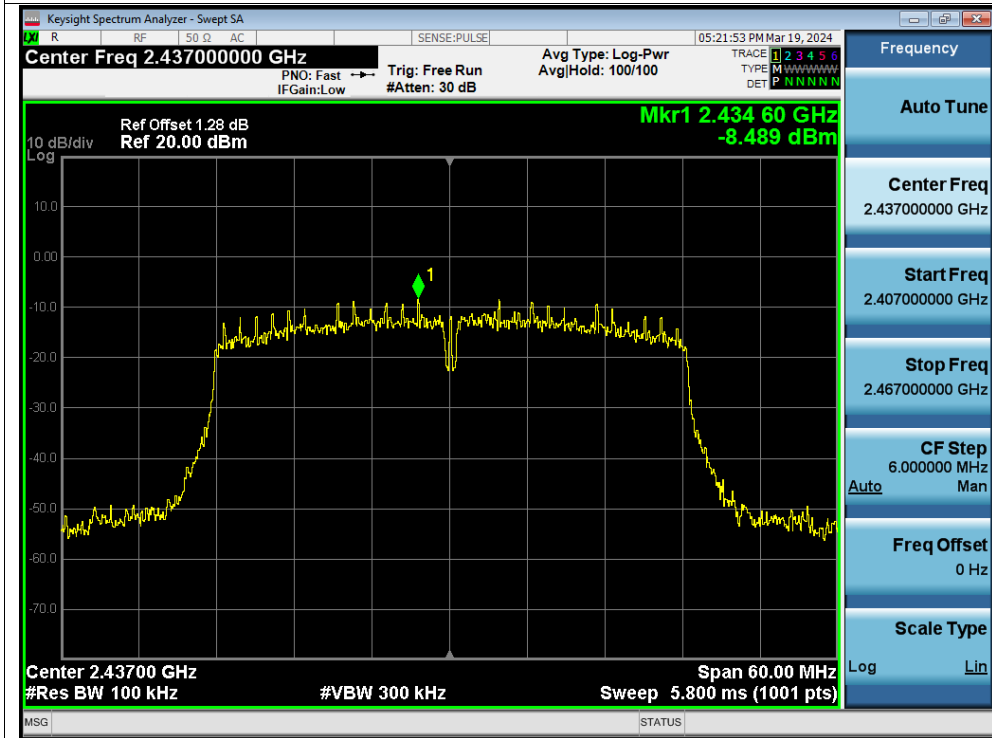
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



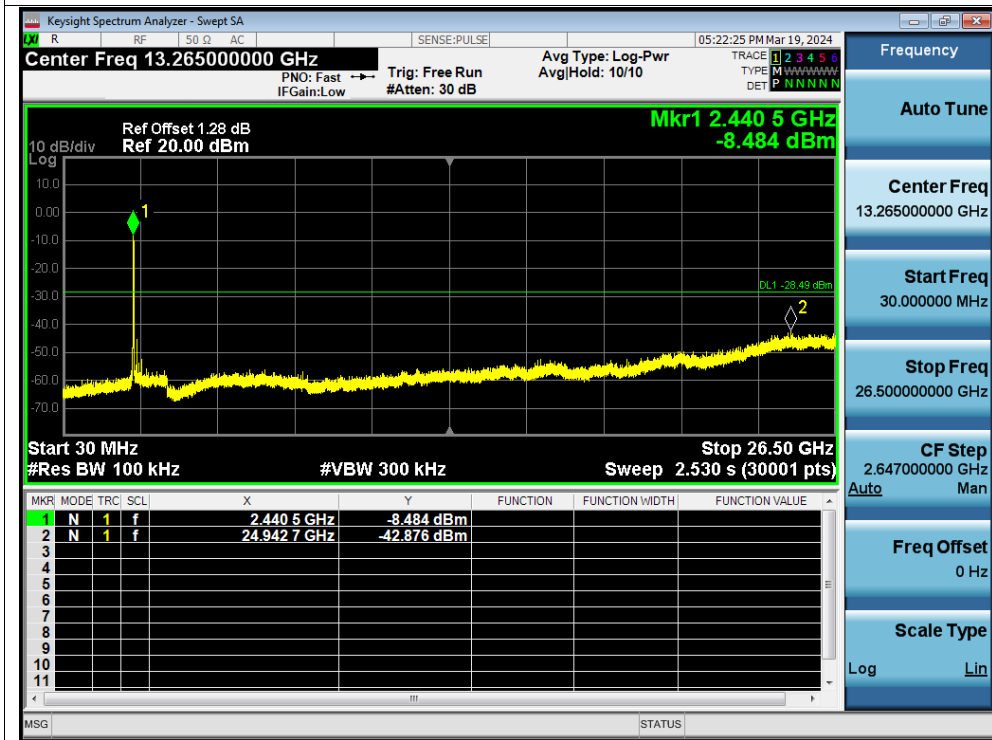
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



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

