

Appendix B

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.11	0.13	0.08
NVNT	b	2437	Ant1	97.18	0.12	0.08
NVNT	b	2462	Ant1	96.66	0.15	0.08
NVNT	g	2412	Ant1	94.77	0.23	0.48
NVNT	g	2437	Ant1	95.2	0.21	0.48
NVNT	g	2462	Ant1	95.2	0.21	0.48
NVNT	n20	2412	Ant1	93.21	0.31	0.52
NVNT	n20	2437	Ant1	89.3	0.49	0.52
NVNT	n20	2462	Ant1	90.4	0.44	0.52
NVNT	n40	2422	Ant1	84.89	0.71	1.06
NVNT	n40	2437	Ant1	87.73	0.57	1.06
NVNT	n40	2452	Ant1	81.52	0.89	1.06

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	16.03	0	16.03	30	Pass
NVNT	b	2437	Ant1	18.5	0	18.5	30	Pass
NVNT	b	2462	Ant1	17.54	0	17.54	30	Pass
NVNT	g	2412	Ant1	15.73	0	15.73	30	Pass
NVNT	g	2437	Ant1	16.66	0	16.66	30	Pass
NVNT	g	2462	Ant1	16.13	0	16.13	30	Pass
NVNT	n20	2412	Ant1	14.93	0	14.93	30	Pass
NVNT	n20	2437	Ant1	15.83	0	15.83	30	Pass
NVNT	n20	2462	Ant1	15.14	0	15.14	30	Pass
NVNT	n40	2422	Ant1	14.81	0	14.81	30	Pass
NVNT	n40	2437	Ant1	14.54	0	14.54	30	Pass
NVNT	n40	2452	Ant1	13.48	0	13.48	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.61	0.5	Pass
NVNT	b	2437	Ant1	9.61	0.5	Pass
NVNT	b	2462	Ant1	9.05	0.5	Pass
NVNT	g	2412	Ant1	15.79	0.5	Pass
NVNT	g	2437	Ant1	12.93	0.5	Pass
NVNT	g	2462	Ant1	15.1	0.5	Pass
NVNT	n20	2412	Ant1	16	0.5	Pass
NVNT	n20	2437	Ant1	11.96	0.5	Pass
NVNT	n20	2462	Ant1	14.22	0.5	Pass
NVNT	n40	2422	Ant1	32.64	0.5	Pass
NVNT	n40	2437	Ant1	25.09	0.5	Pass
NVNT	n40	2452	Ant1	33.56	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



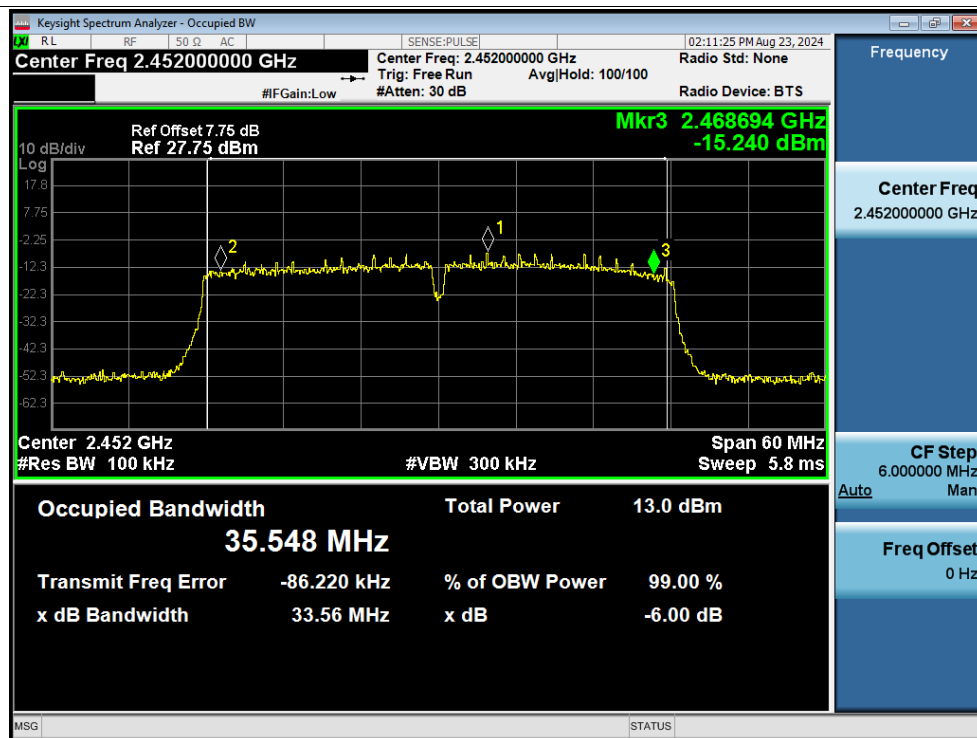
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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	4.12	0	4.12	8	Pass
NVNT	b	2437	Ant1	6.42	0	6.42	8	Pass
NVNT	b	2462	Ant1	5.76	0	5.76	8	Pass
NVNT	g	2412	Ant1	-2.05	0	-2.05	8	Pass
NVNT	g	2437	Ant1	-1.07	0	-1.07	8	Pass
NVNT	g	2462	Ant1	-1.42	0	-1.42	8	Pass
NVNT	n20	2412	Ant1	-2.48	0	-2.48	8	Pass
NVNT	n20	2437	Ant1	-2.88	0	-2.88	8	Pass
NVNT	n20	2462	Ant1	-2.33	0	-2.33	8	Pass
NVNT	n40	2422	Ant1	-4.77	0	-4.77	8	Pass
NVNT	n40	2437	Ant1	-4.47	0	-4.47	8	Pass
NVNT	n40	2452	Ant1	-6.87	0	-6.87	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



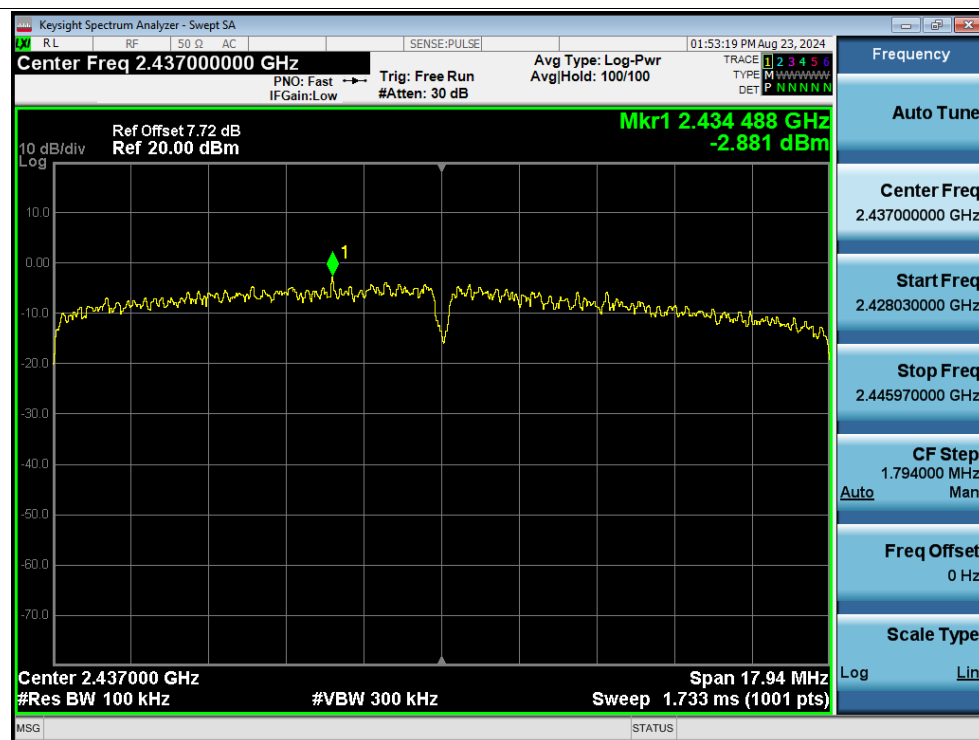
PSD NVNT g 2462MHz Ant1



PSD NVNT n20 2412MHz Ant1



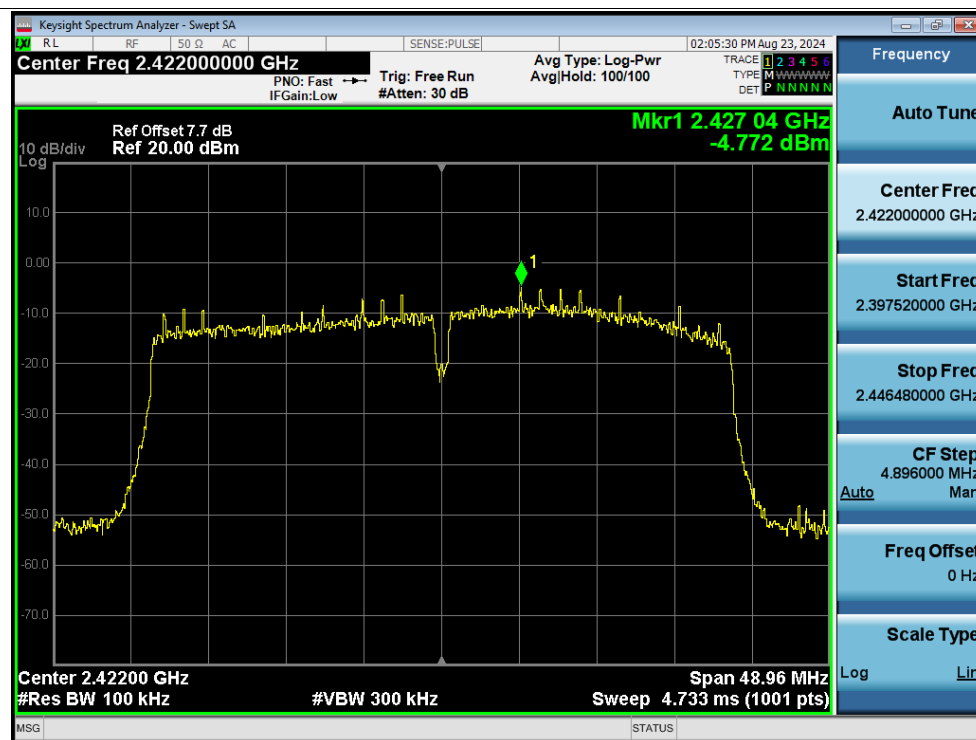
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PSD NVNT n20 2462MHz Ant1



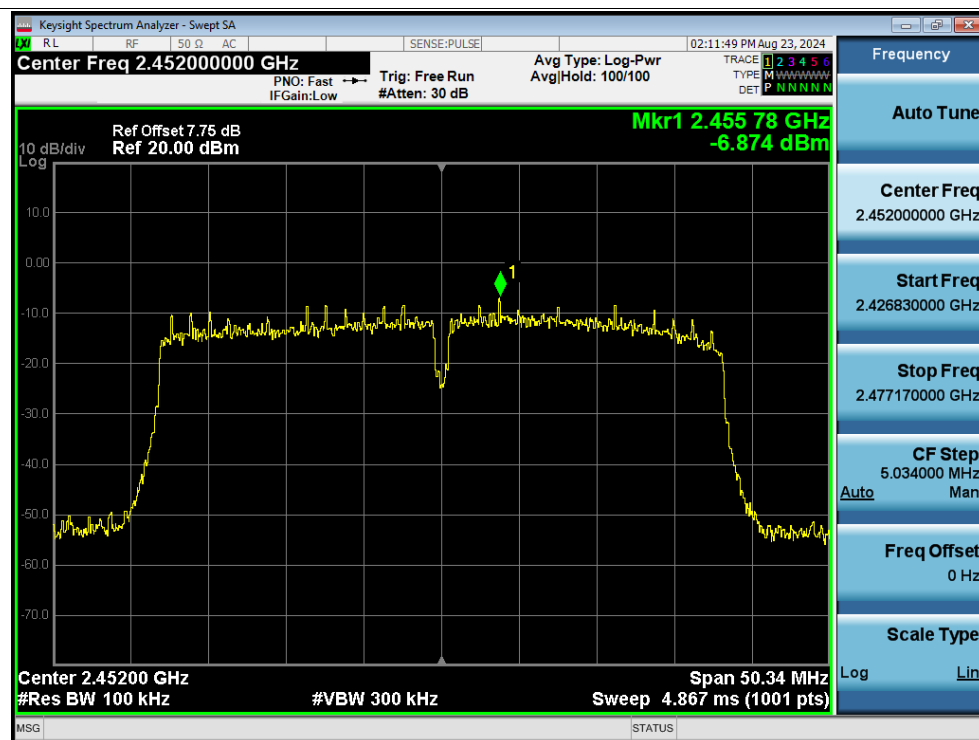
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PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



Band Edge

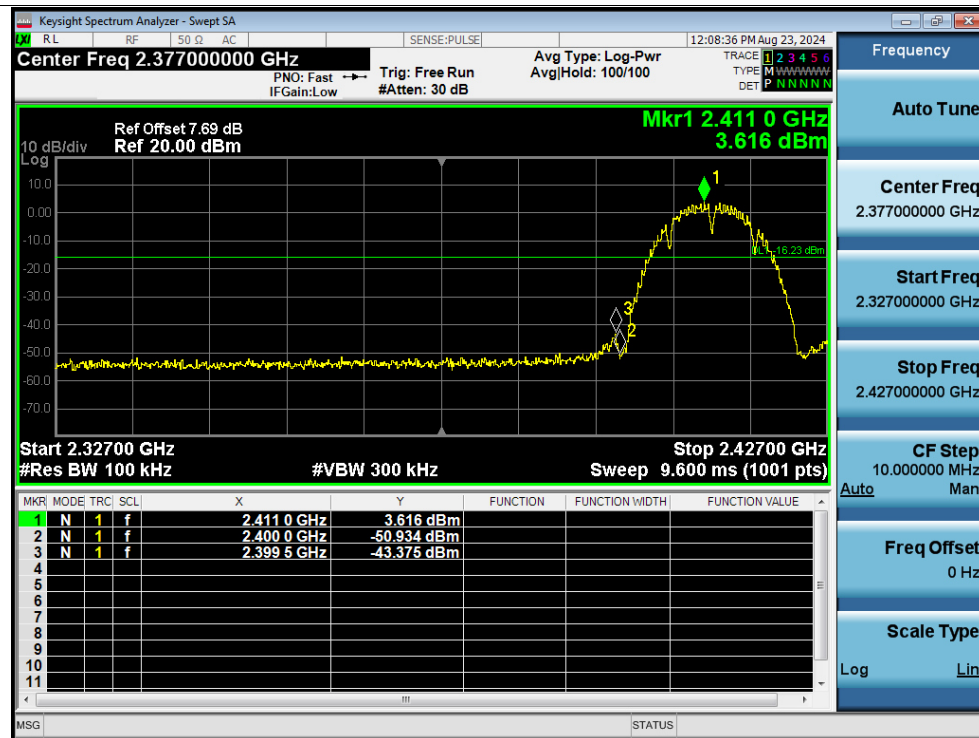
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NVNT	b	2412	Ant1	-47.137	-20	Pass
NVNT	b	2462	Ant1	-57.162	-20	Pass
NVNT	g	2412	Ant1	-36.271	-20	Pass
NVNT	g	2462	Ant1	-50.798	-20	Pass
NVNT	n20	2412	Ant1	-35.39	-20	Pass
NVNT	n20	2462	Ant1	-49.28	-20	Pass
NVNT	n40	2422	Ant1	-46.418	-20	Pass
NVNT	n40	2452	Ant1	-43.599	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



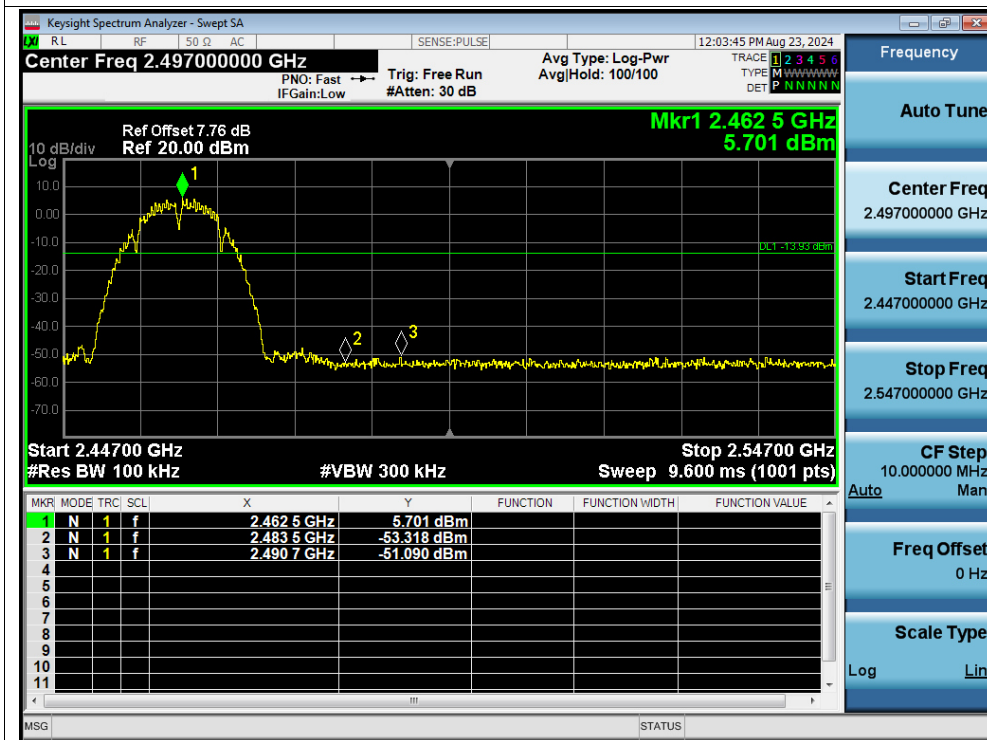
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Band Edge NVNT b 2462MHz Ant1 Ref



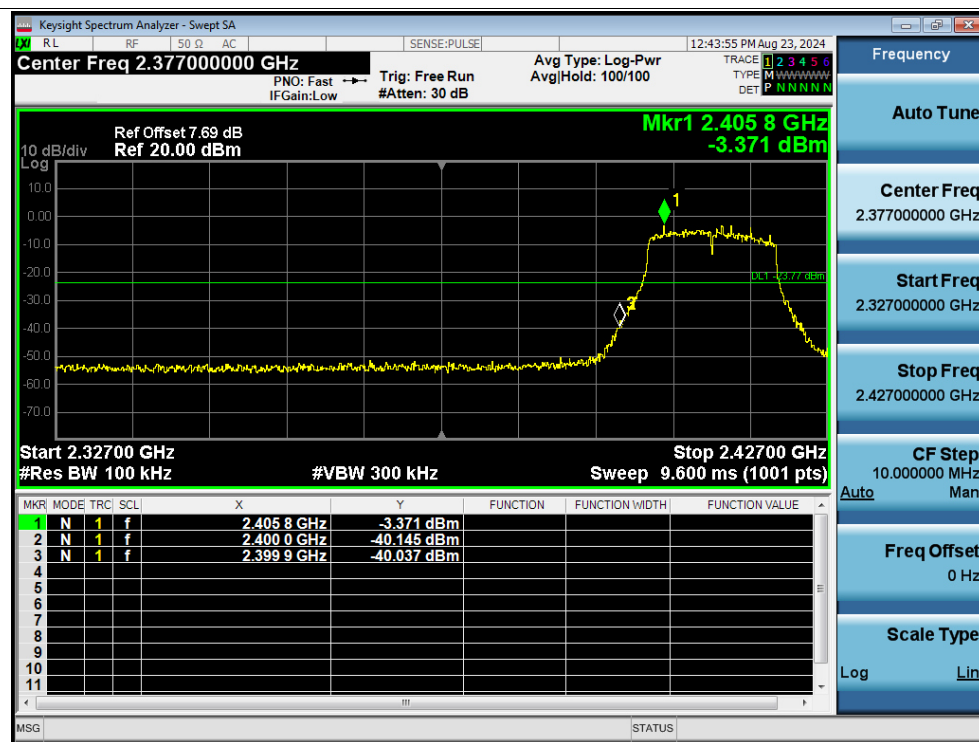
Band Edge NVNT b 2462MHz Ant1 Emission



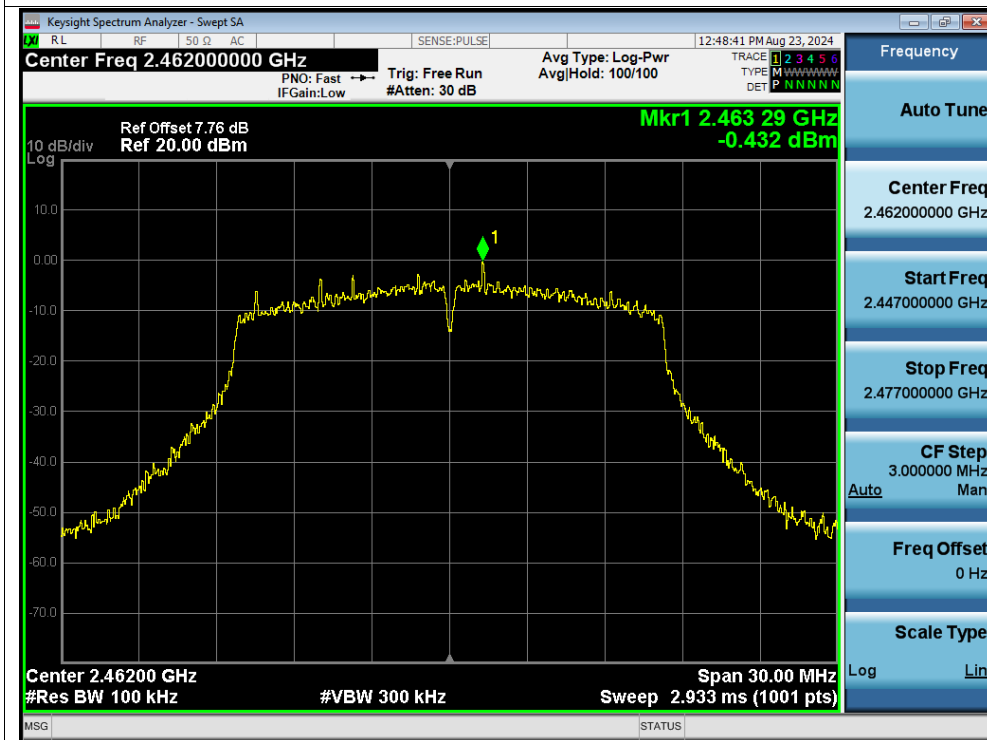
Band Edge NVNT g 2412MHz Ant1 Ref



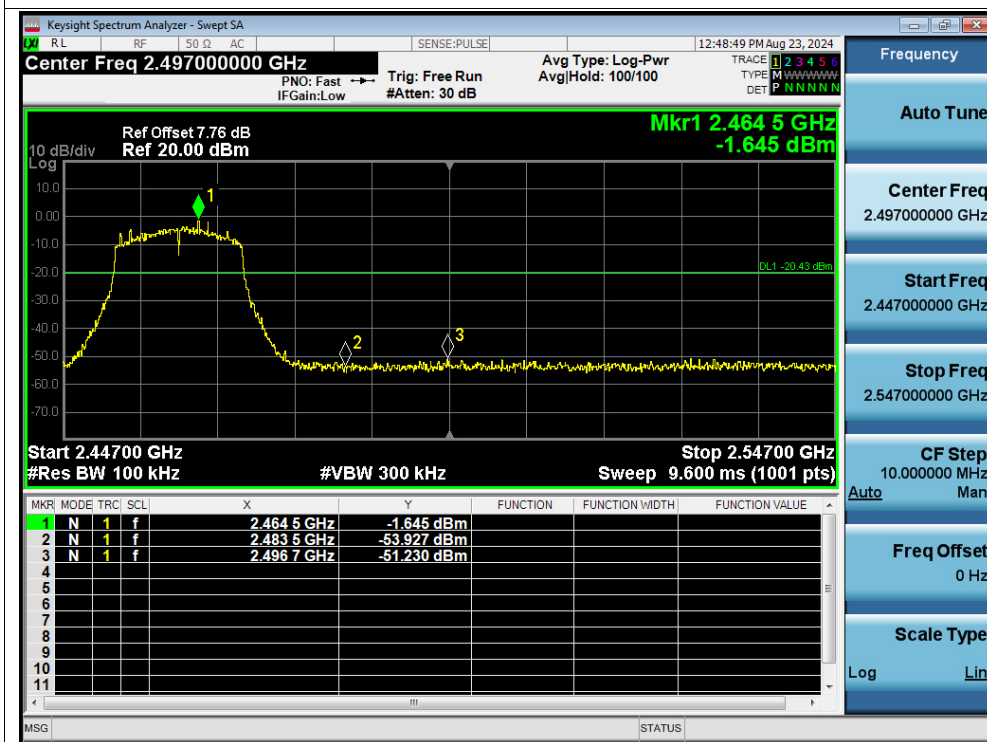
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



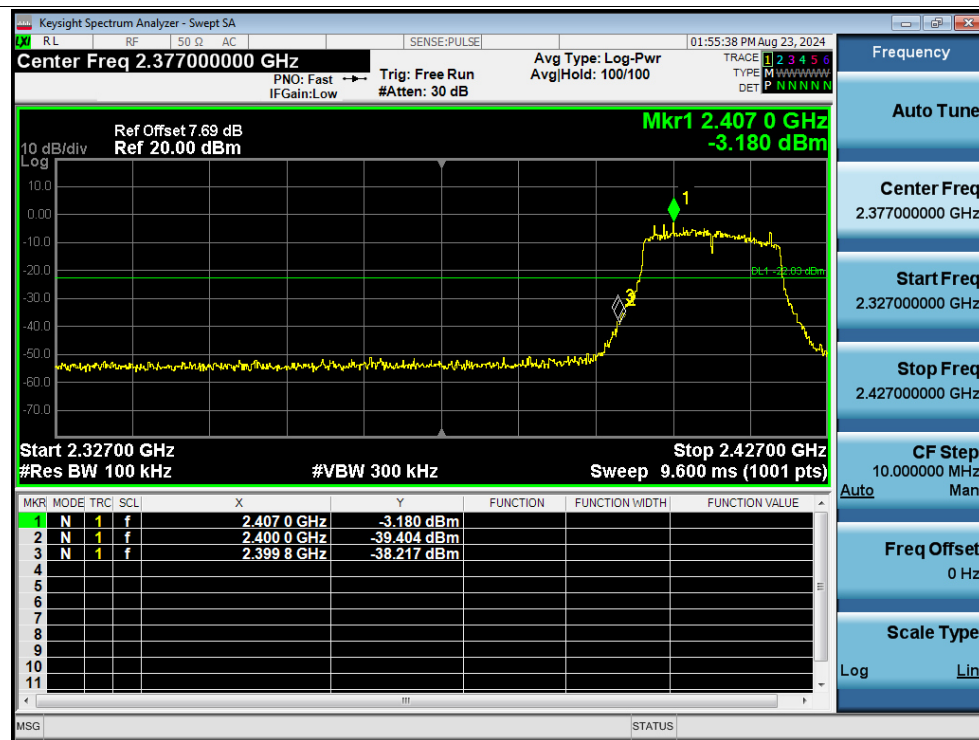
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Band Edge NVNT n20 2412MHz Ant1 Ref



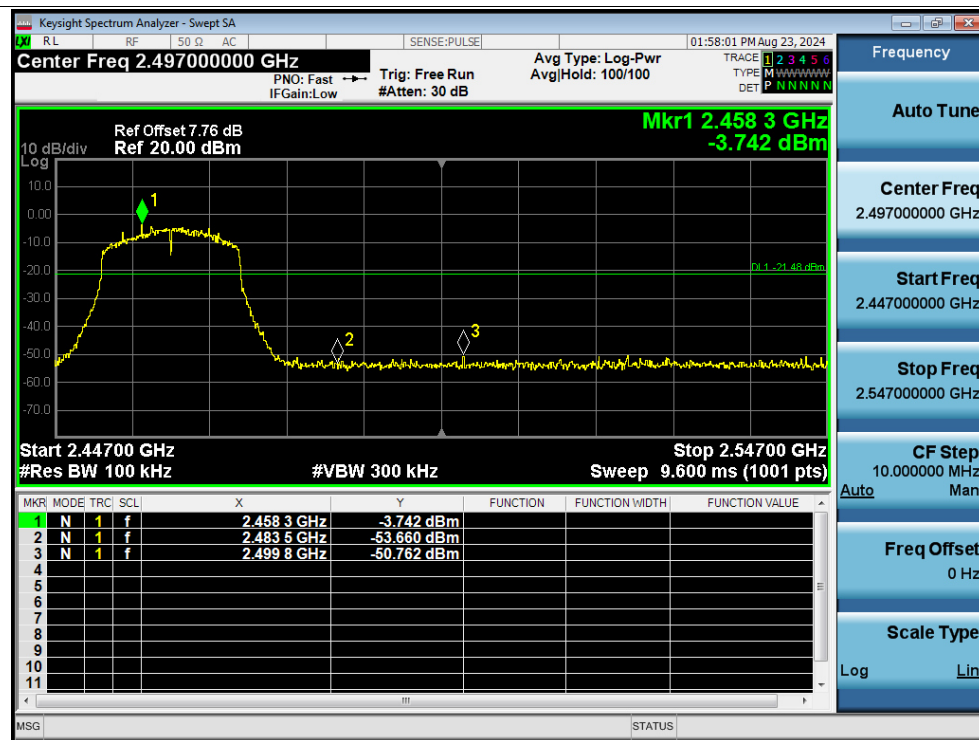
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Band Edge NVNT n20 2462MHz Ant1 Ref



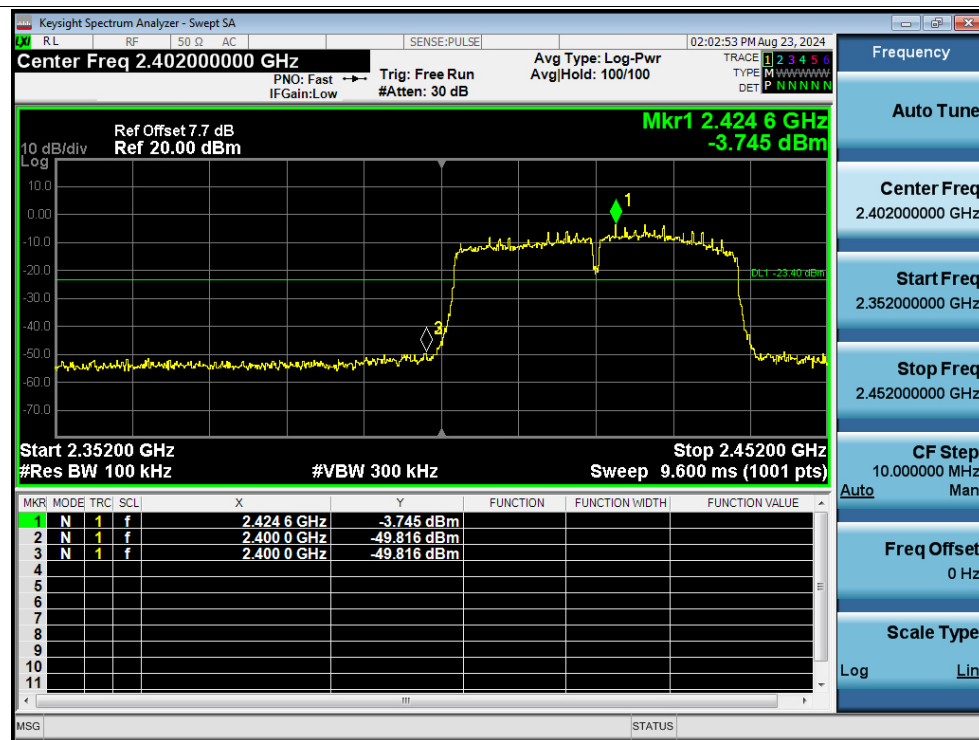
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Band Edge NVNT n40 2422MHz Ant1 Ref



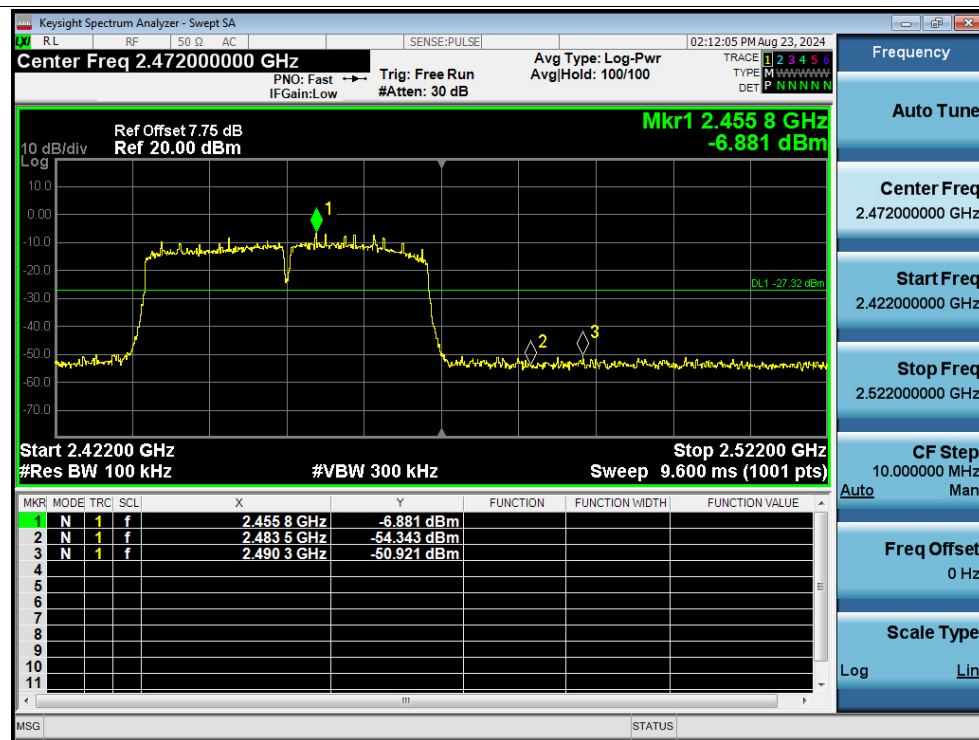
Band Edge NVNT n40 2422MHz Ant1 Emission



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	-41.88	-20	Pass
NVNT	b	2437	Ant1	-44.23	-20	Pass
NVNT	b	2462	Ant1	-43.51	-20	Pass
NVNT	g	2412	Ant1	-35.09	-20	Pass
NVNT	g	2437	Ant1	-37.21	-20	Pass
NVNT	g	2462	Ant1	-36.32	-20	Pass
NVNT	n20	2412	Ant1	-35.3	-20	Pass
NVNT	n20	2437	Ant1	-36.59	-20	Pass
NVNT	n20	2462	Ant1	-35.76	-20	Pass
NVNT	n40	2422	Ant1	-33.63	-20	Pass
NVNT	n40	2437	Ant1	-32.38	-20	Pass
NVNT	n40	2452	Ant1	-30.91	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

