

Appendix for 15.247

Duty Cycle	2
Maximum Conducted Output Power	8
-6dB Bandwidth	9
Occupied Channel Bandwidth	15
Maximum Power Spectral Density Level	21
Band Edge	27
Conducted RF Spurious Emission	34

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	g	2412	Ant1/2	68.26	1.66	4.39
		2437		93.14	0.31	0.48
		2462		68.45	1.65	4.35
	n20	2412	Ant1	62.98	2.01	4.39
		2437		94.34	0.25	0.48
		2462		72.15	1.42	4.39
		2412	Ant2	97.54	0.11	0.48
		2437		95.12	0.22	0.48
		2462		95.21	0.21	0.48

Test Graphs

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

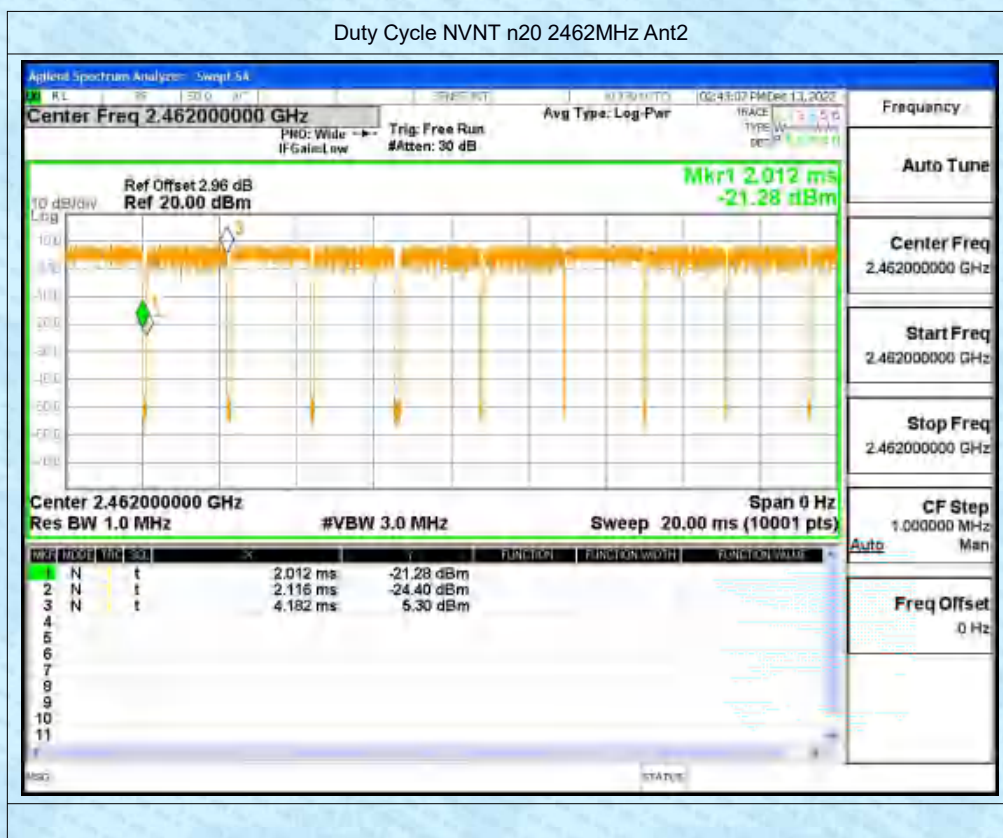


Duty Cycle NVNT n20 2412MHz Ant2



Duty Cycle NVNT n20 2437MHz Ant2





Maximum Conducted Output Power

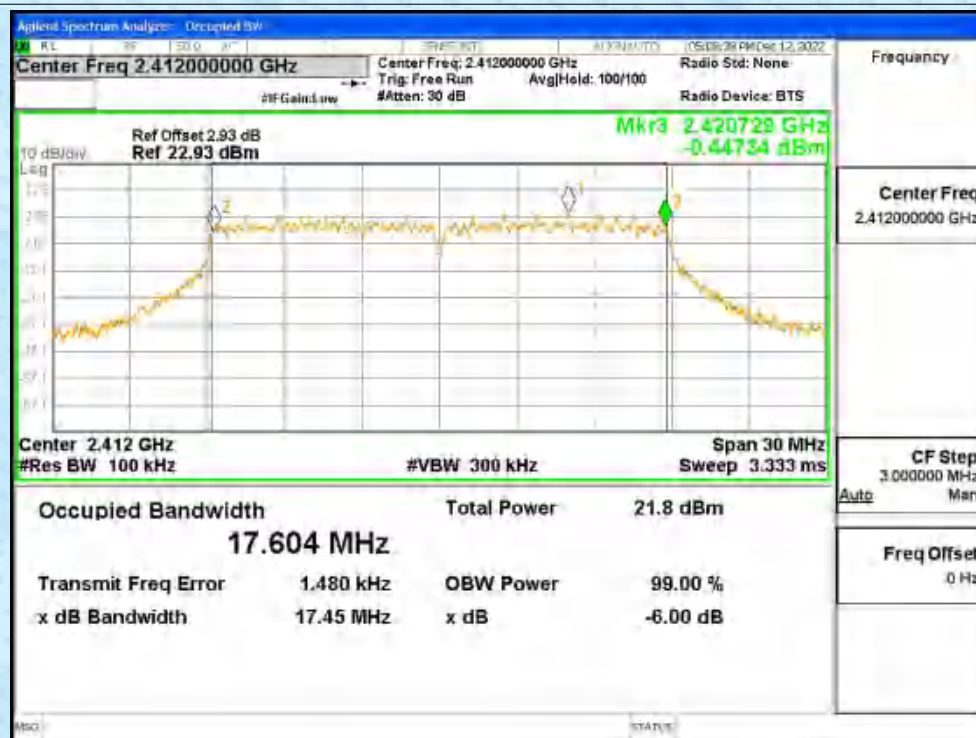
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	g	2412	Ant1/2	5.90	0	5.90	30	Pass
		2437		5.55	0	5.55	30	Pass
		2462		5.12	0	5.12	30	Pass
	n20	2412	Ant1	5.90	0	5.90	30	Pass
			Ant2	5.00	0	5.00	30	Pass
			Sum	8.48	0	8.48	30	Pass
		2437	Ant1	5.90	0	5.90	30	Pass
			Ant2	5.05	0	5.05	30	Pass
			Sum	8.50	0	8.50	30	Pass
		2462	Ant1	5.87	0	5.87	30	Pass
			Ant2	5.10	0	5.10	30	Pass
			Sum	8.50	0	8.50	30	Pass

-6dB Bandwidth

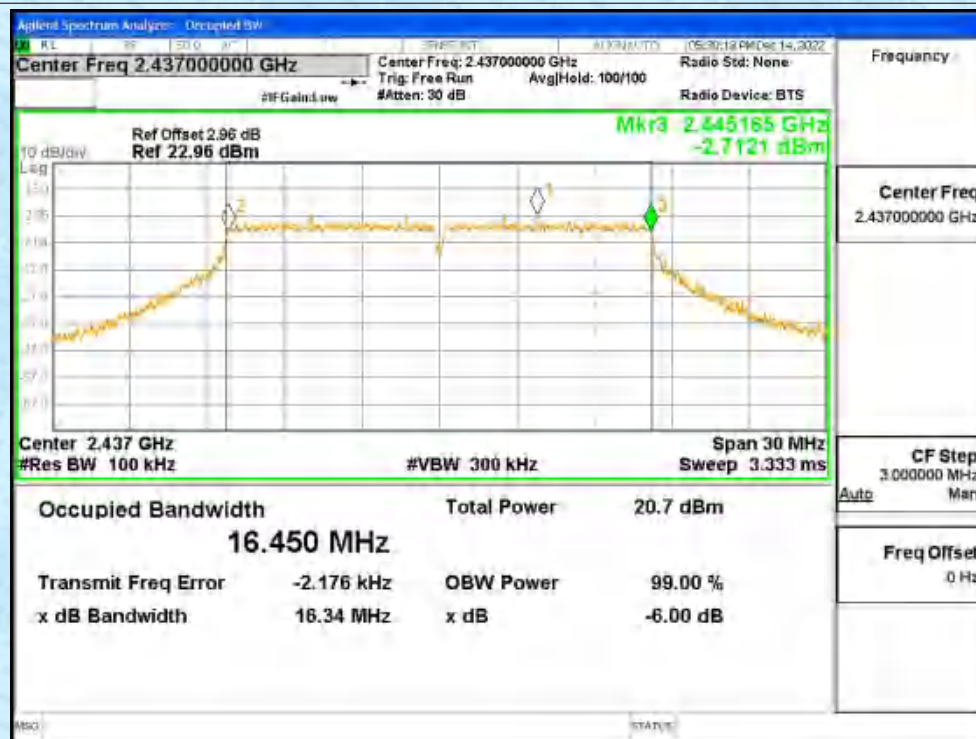
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	g	2412	Ant1/2	17.454	0.5	Pass
		2437		16.335	0.5	Pass
		2462		17.5	0.5	Pass
	n20	2412	Ant1	17.513	0.5	Pass
		2437		16.339	0.5	Pass
		2462		17.493	0.5	Pass
		2412	Ant2	16.332	0.5	Pass
		2437		16.35	0.5	Pass
		2462		16.33	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT g 2412MHz Ant1



-6dB Bandwidth NVNT g 2437MHz Ant1



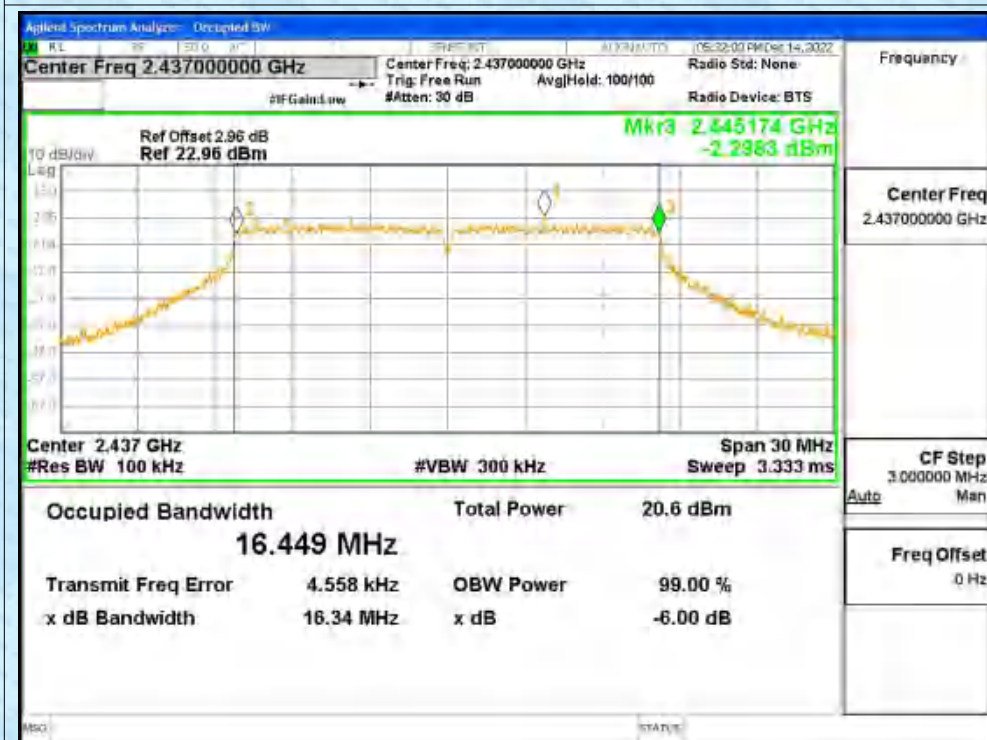
-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



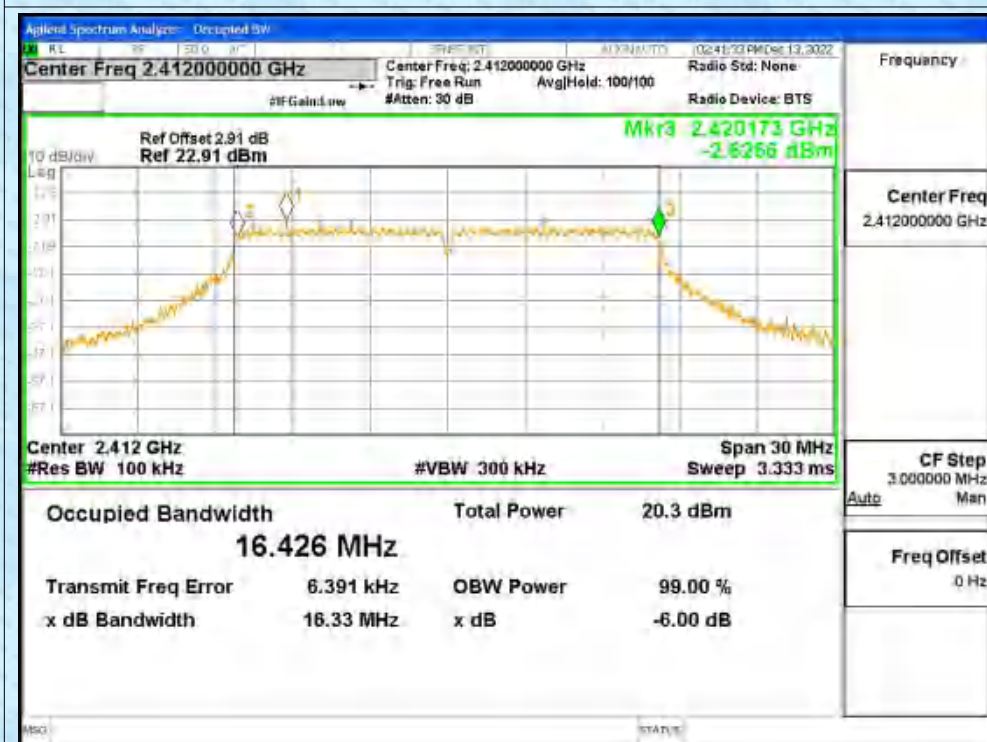
-6dB Bandwidth NVNT n20 2437MHz Ant1



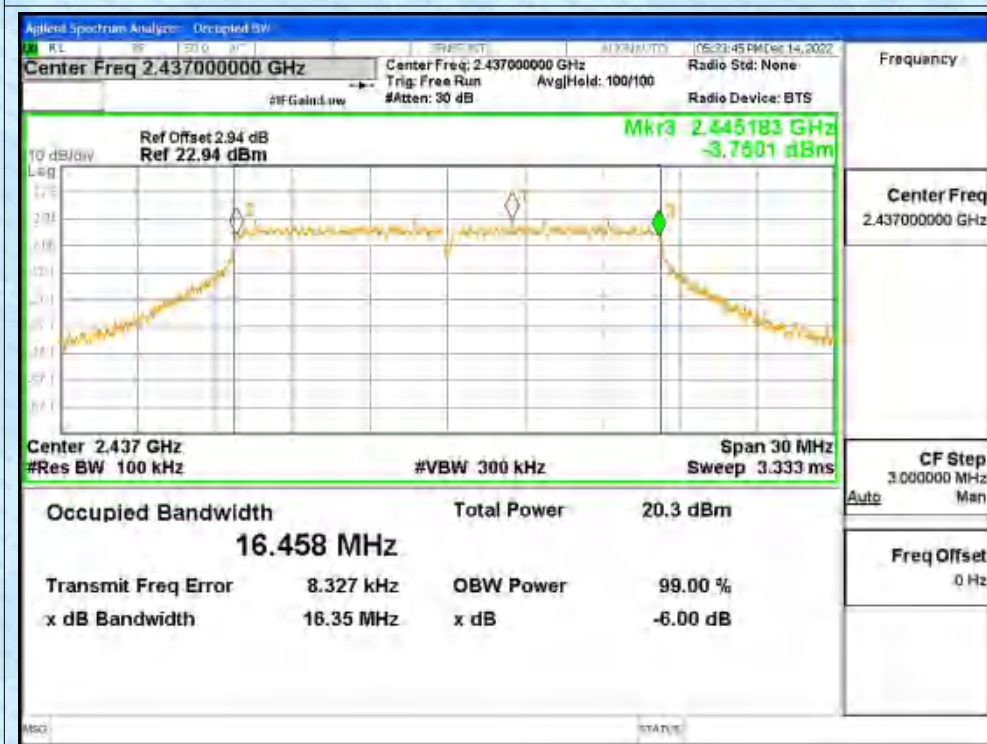
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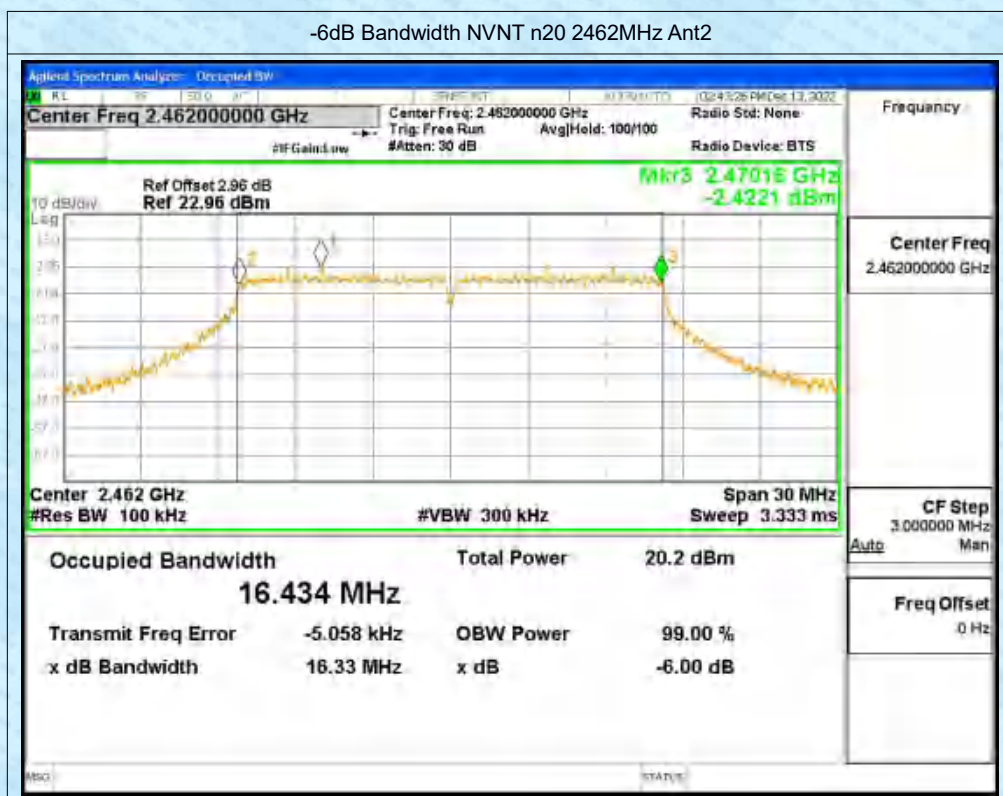


-6dB Bandwidth NVNT n20 2412MHz Ant2



-6dB Bandwidth NVNT n20 2437MHz Ant2



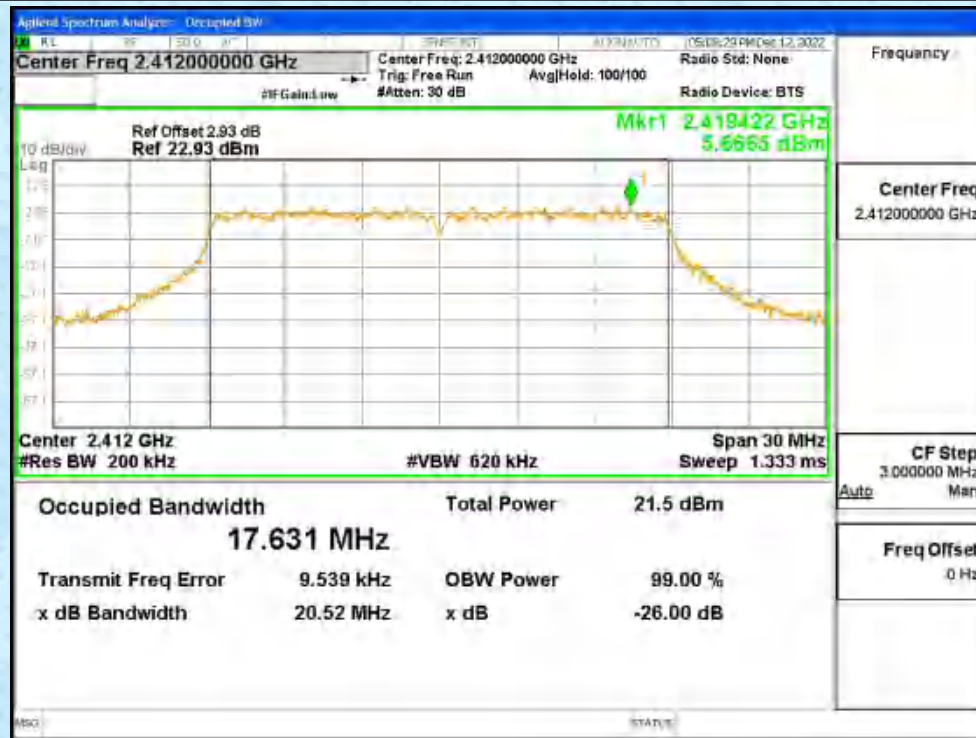


Occupied Channel Bandwidth

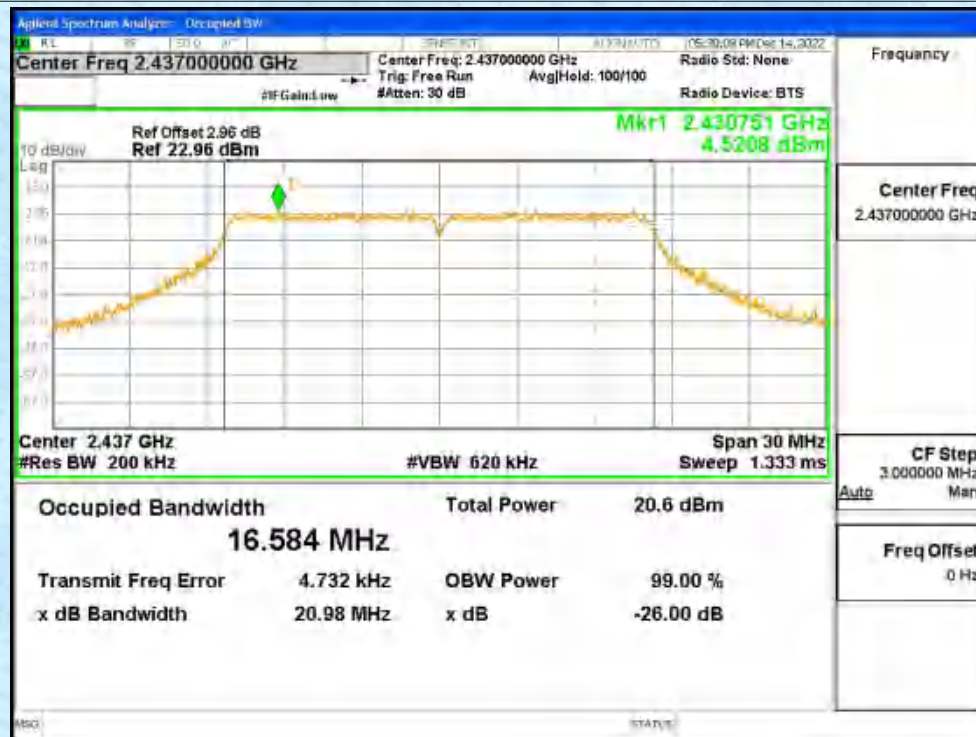
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	g	2412	Ant1/2	17.631
		2437		16.584
		2462		17.62
	n20	2412	Ant1	17.624
		2437		16.607
		2462		17.614
		2412	Ant2	16.541
		2437		16.596
		2462		16.509

Test Graphs

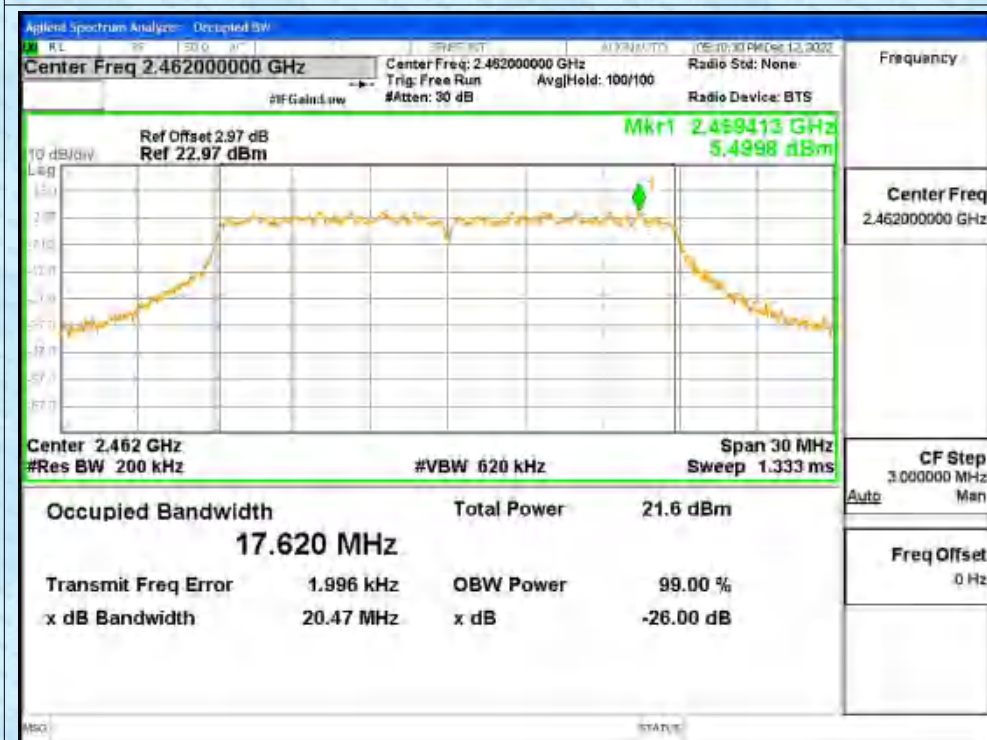
OBW NVNT g 2412MHz Ant1



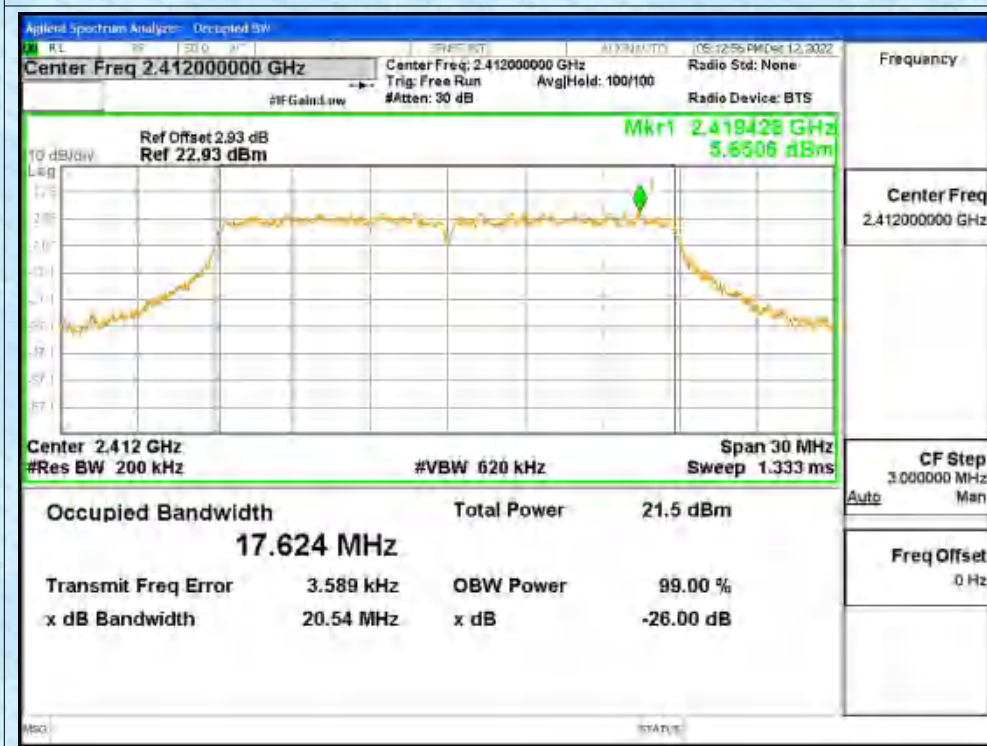
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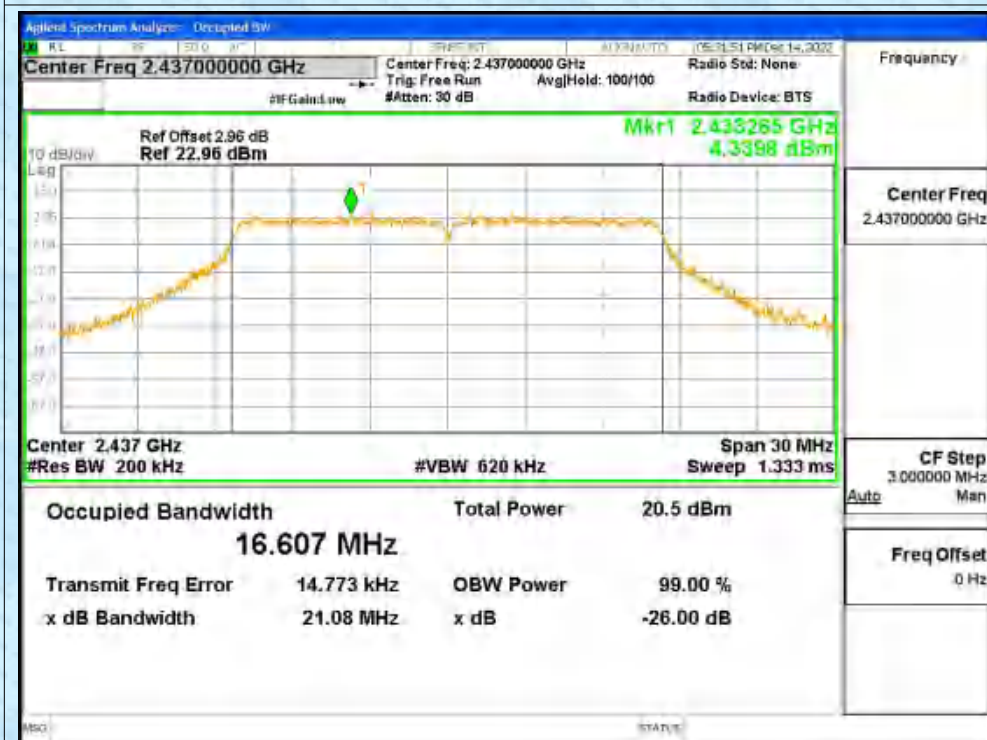
OBW NVNT g 2462MHz Ant1



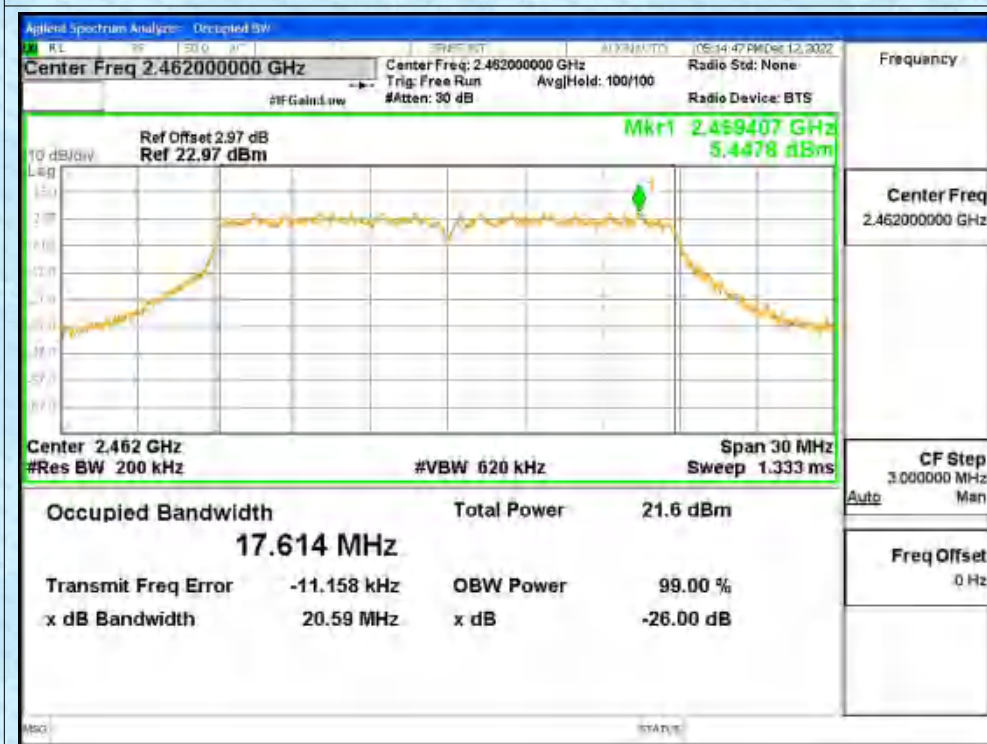
OBW NVNT n20 2412MHz Ant1



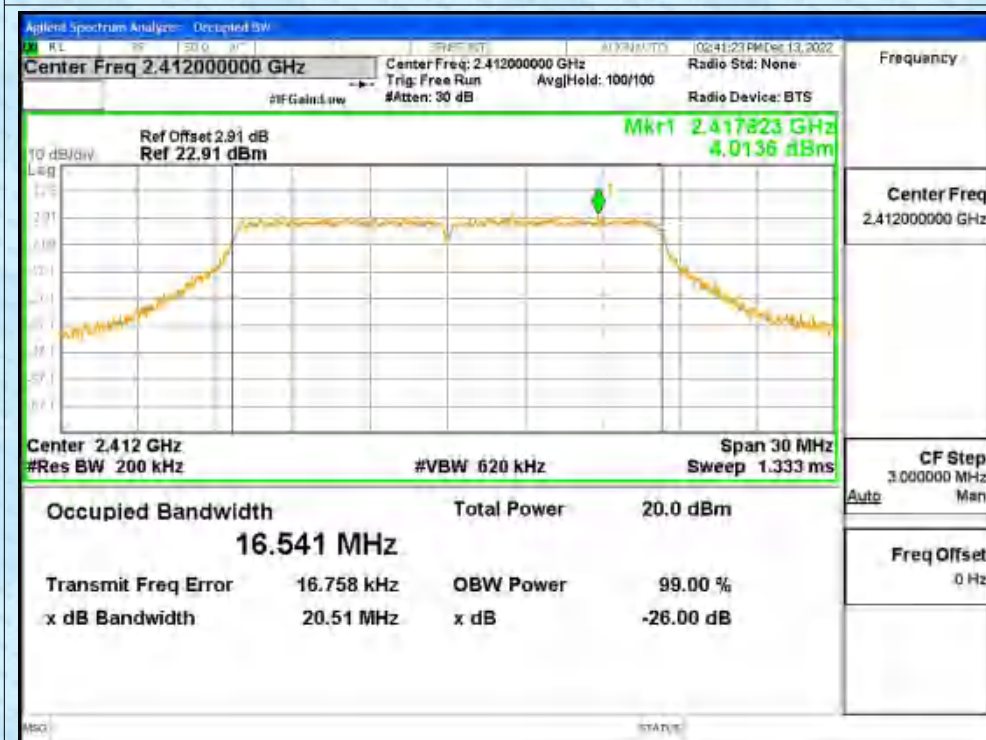
OBW NVNT n20 2437MHz Ant1



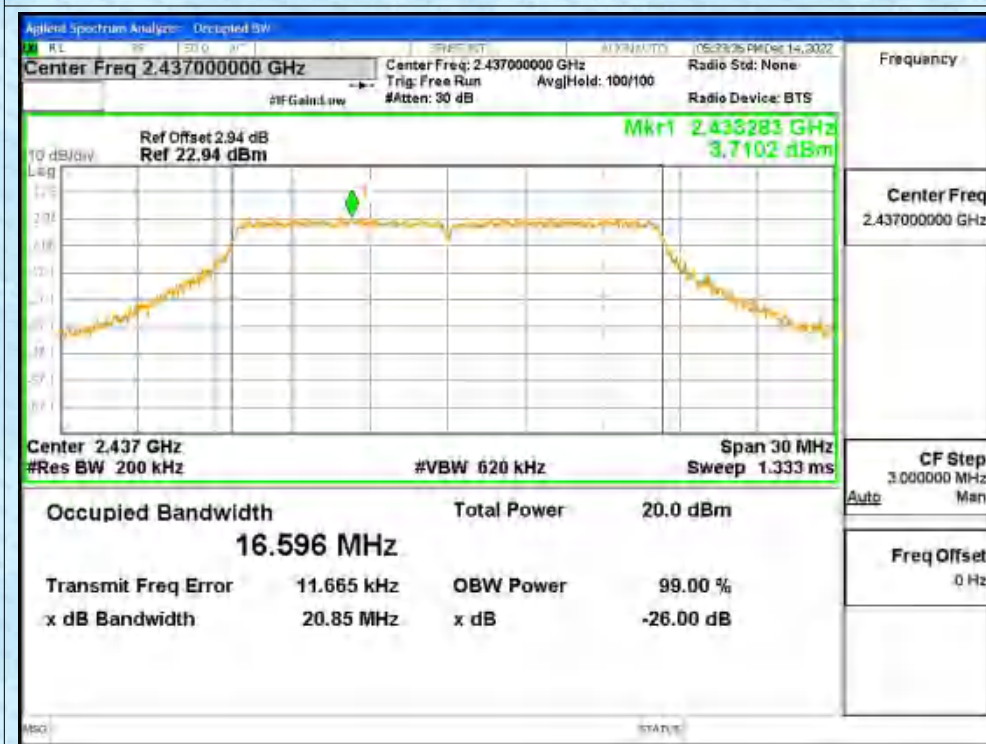
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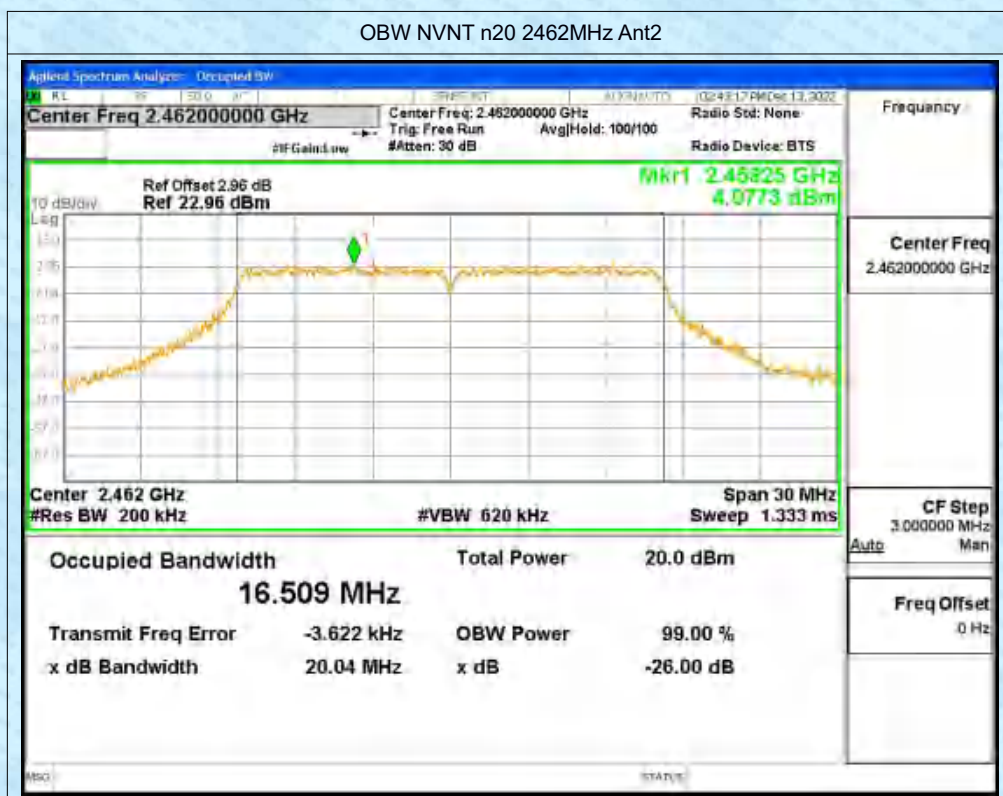


OBW NVNT n20 2412MHz Ant2



OBW NVNT n20 2437MHz Ant2



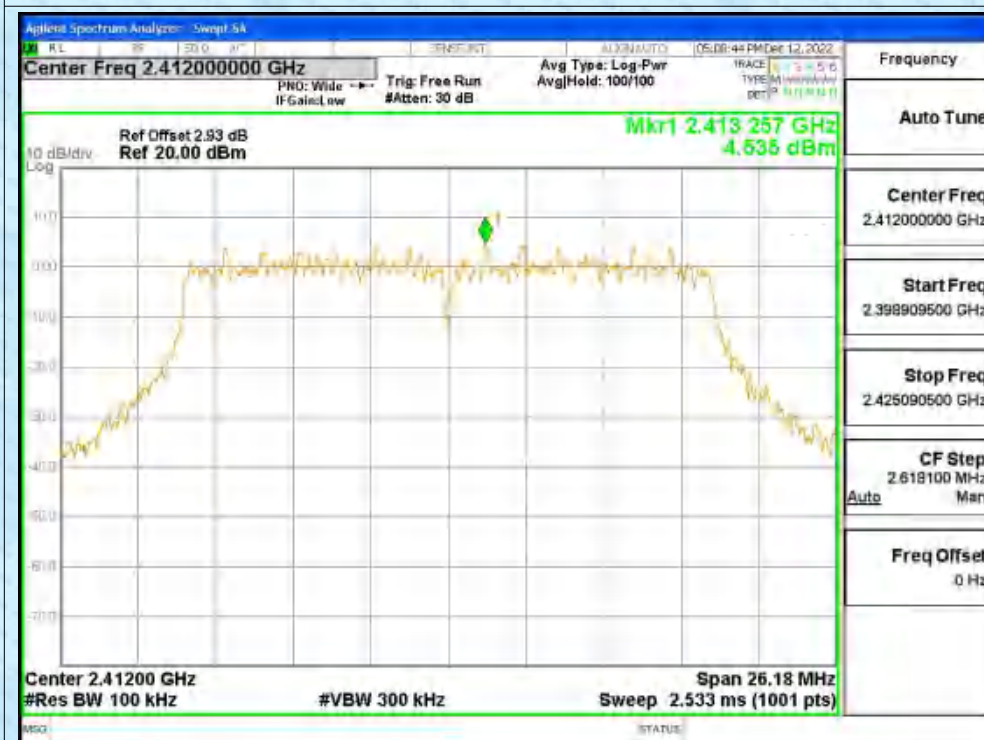


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	g	2412	Ant1	4.54	0	4.54	8	Pass
		2437		3.19	0	3.19	8	Pass
		2462		4.49	0	4.49	8	Pass
	n20	2412	Ant1	-4.2	0	-4.2	8	Pass
			Ant2	-4.15	0	-4.15	8	Pass
			Sum	-1.16	0	-1.16	8	Pass
		2437	Ant1	-0.14	0	-0.14	8	Pass
			Ant2	-2.07	0	-2.07	8	Pass
			Sum	2.01	0	2.01	8	Pass
		2462	Ant1	-4.68	0	-4.68	8	Pass
			Ant2	-5.05	0	-5.05	8	Pass
			Sum	-1.85	0	-1.85	8	Pass

Test Graphs

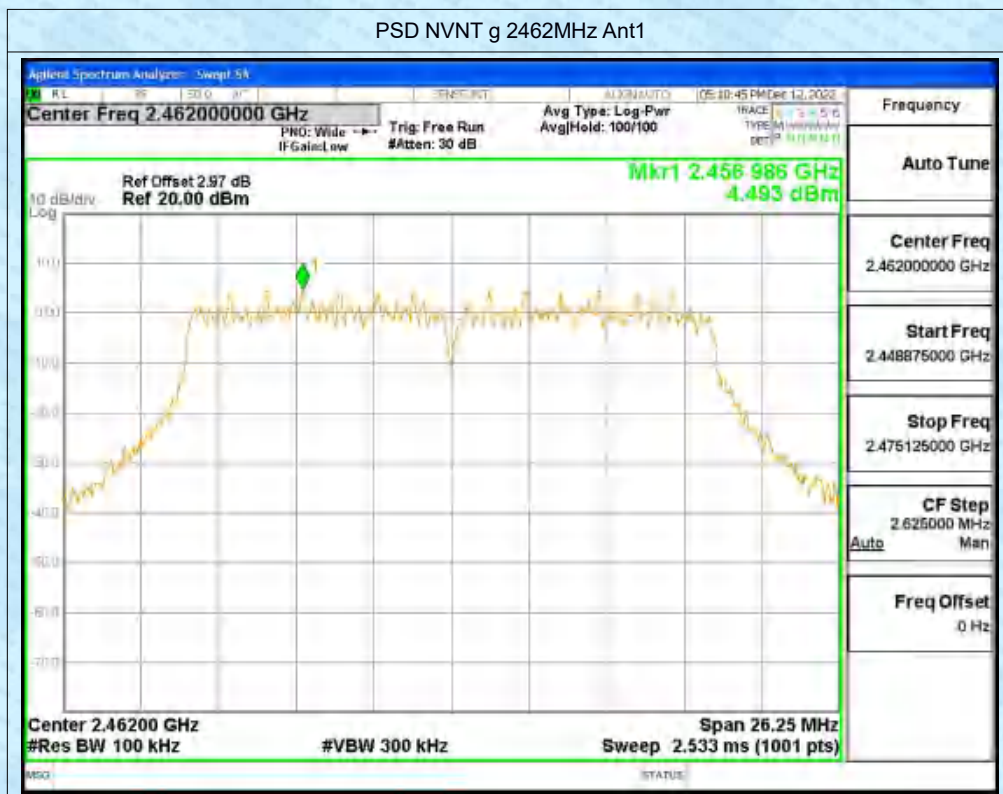
PSD NVNT g 2412MHz Ant1



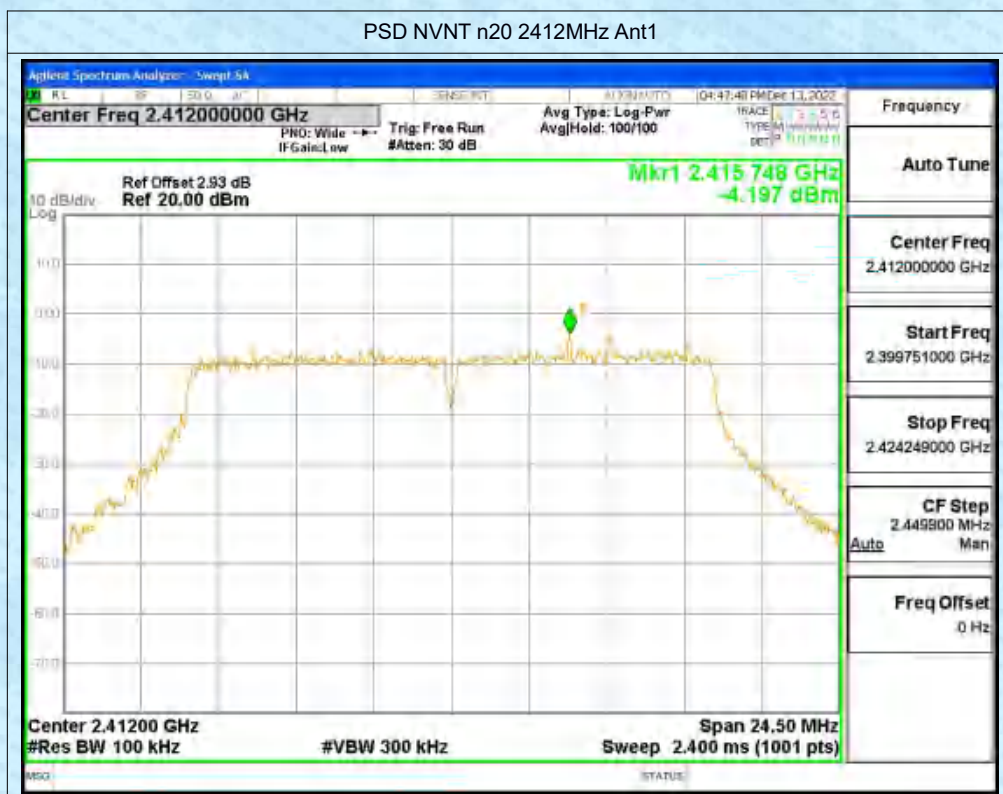
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



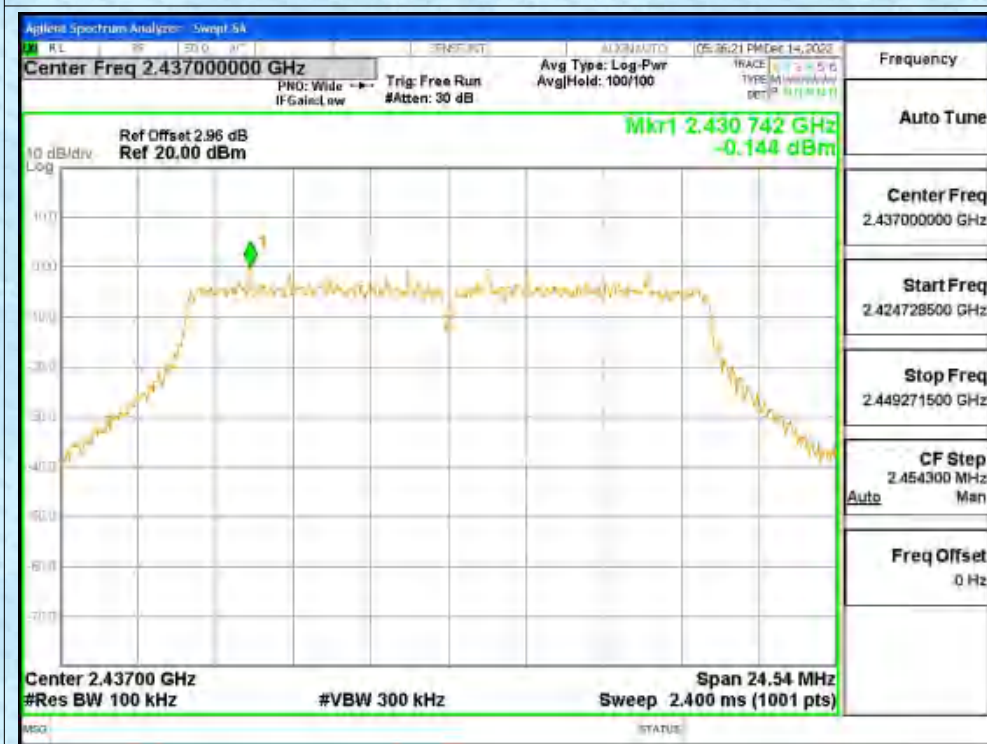
PSD NVNT n20 2412MHz Ant1



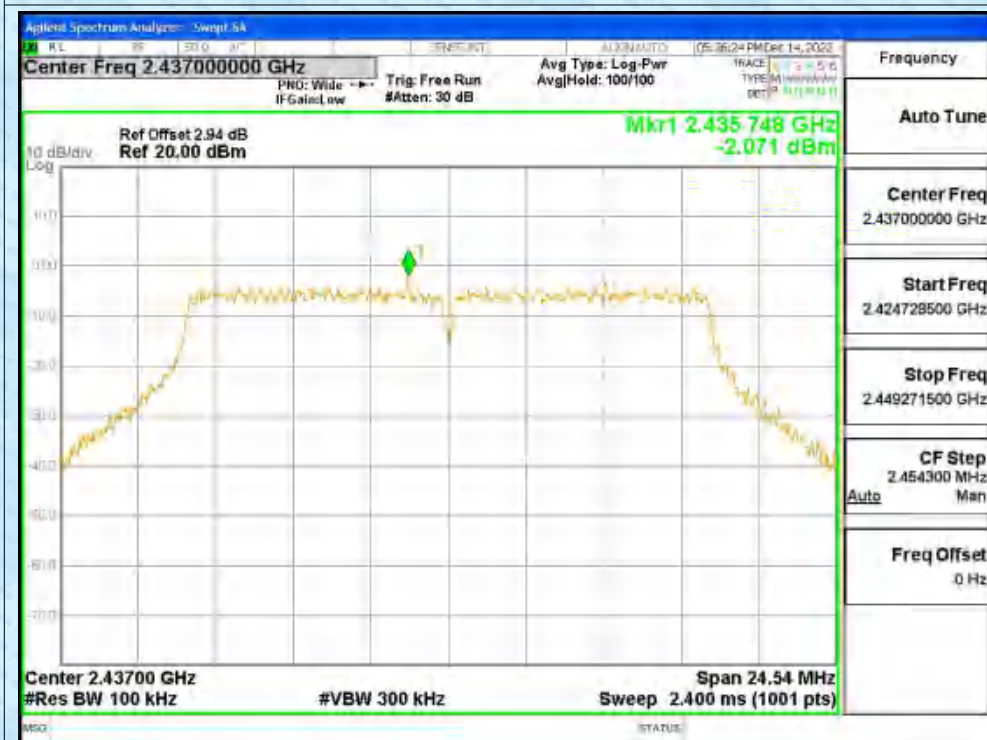
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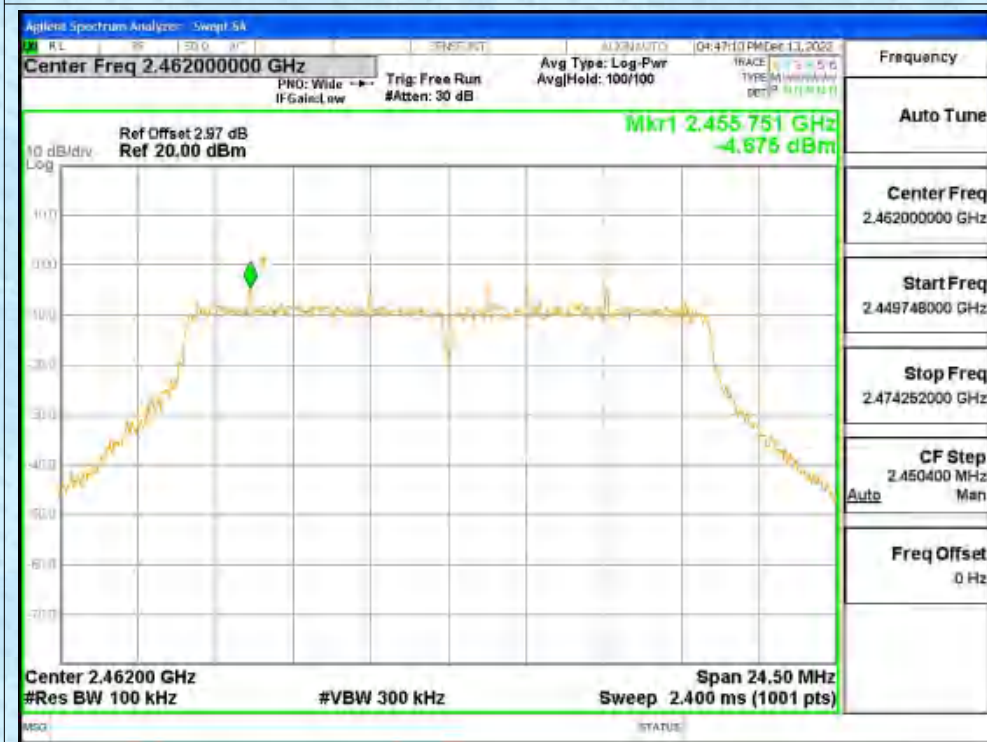
PSD NVNT n20 2437MHz Ant1

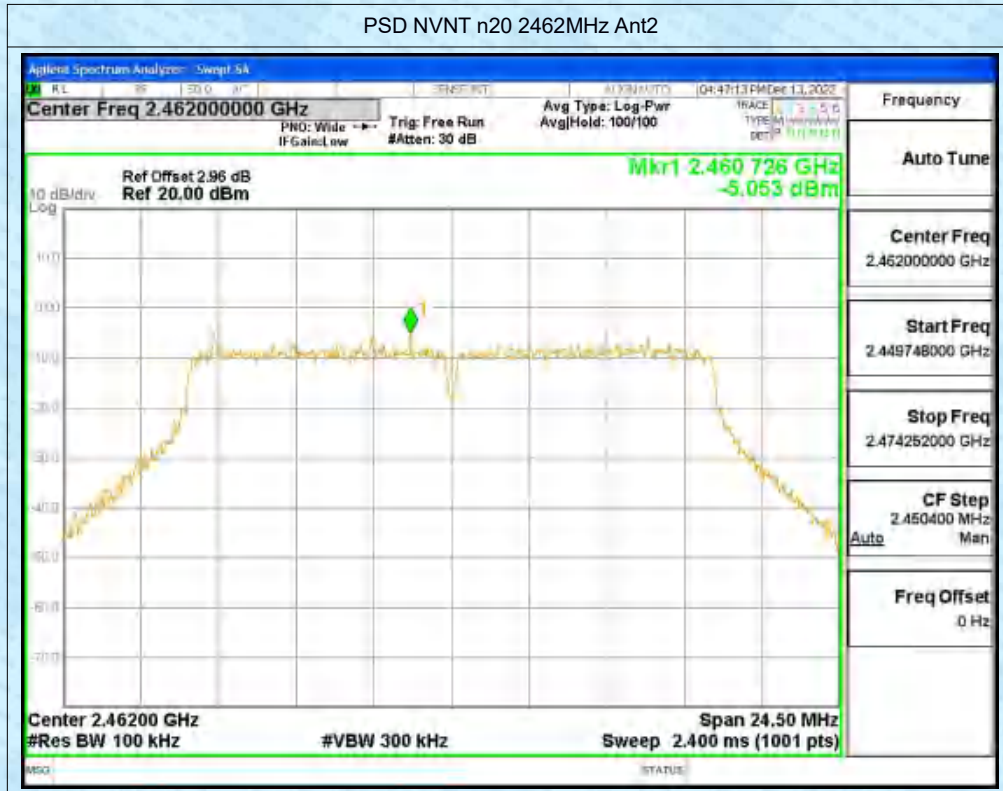


PSD NVNT n20 2437MHz Ant2



PSD NVNT n20 2462MHz Ant1



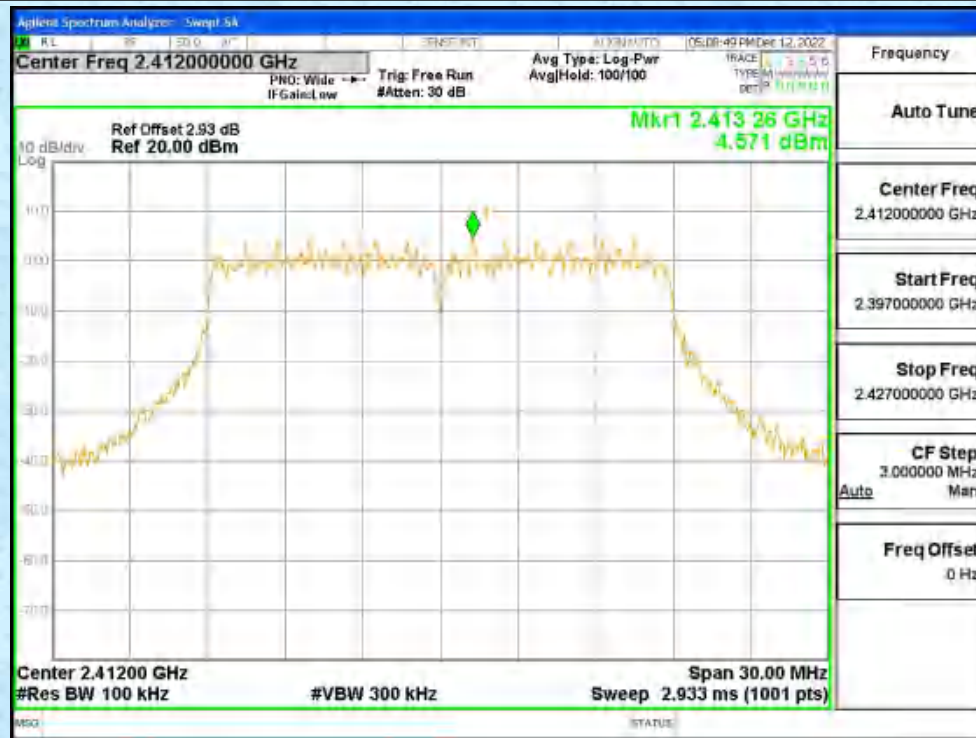


Band Edge

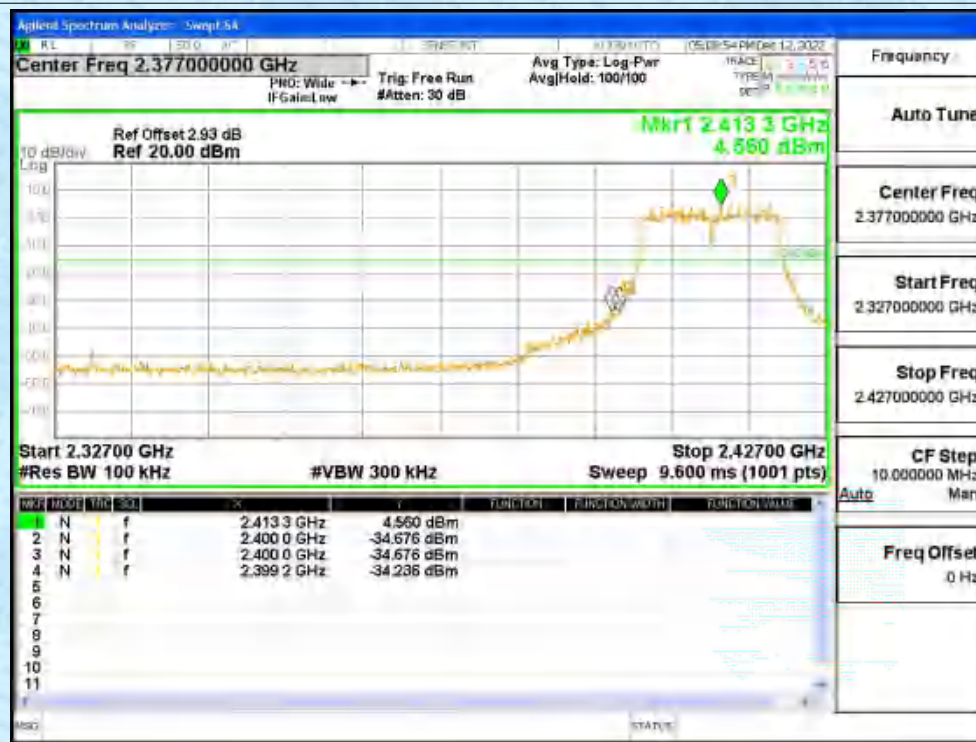
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	g	2412	Ant1/2	-38.8	-20	Pass
		2462		-50.39	-20	Pass
	n20	2412	Ant1	-38.94	-20	Pass
		2462		-49.26	-20	Pass
		2412	Ant2	-37.29	-20	Pass
		2462		-50.15	-20	Pass

Test Graphs

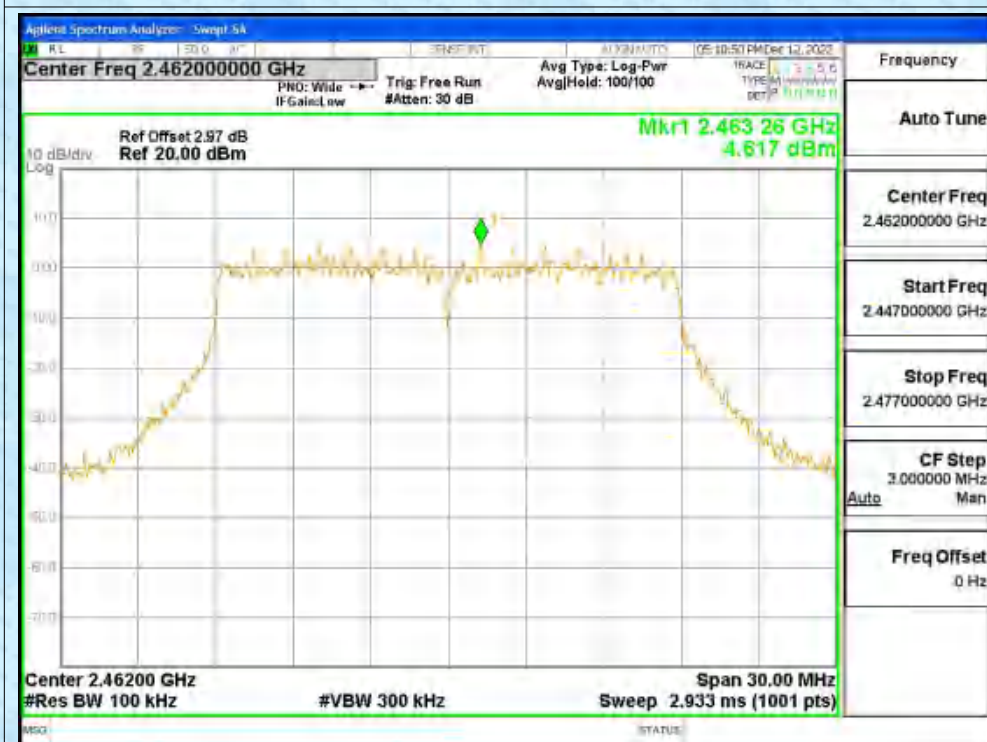
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



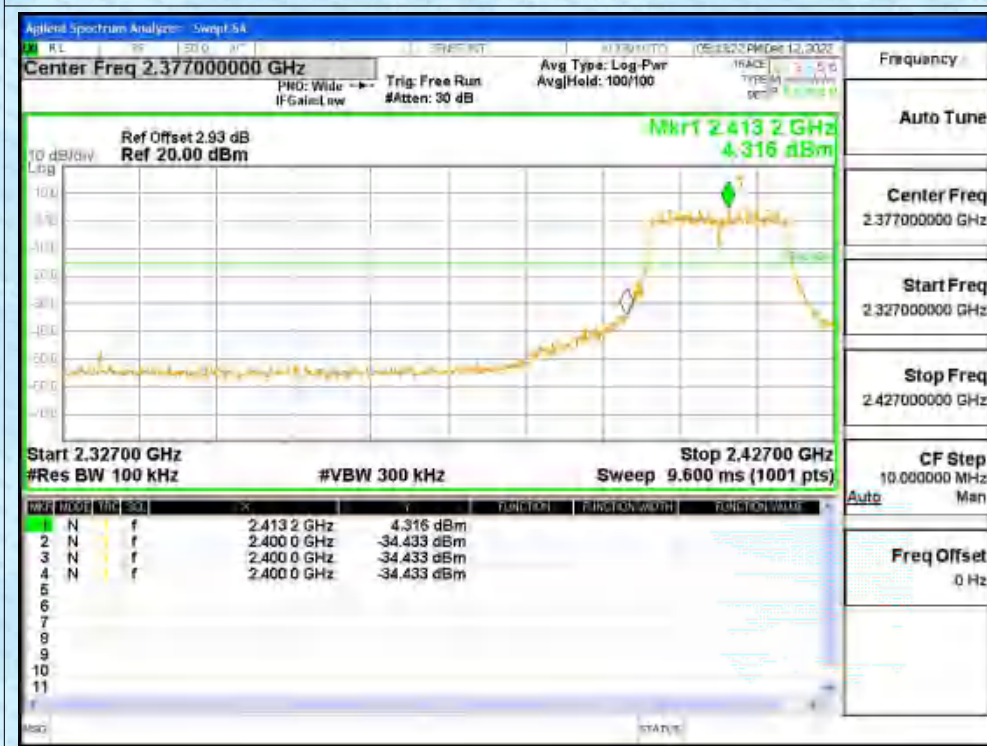
Band Edge NVNT g 2462MHz Ant1 Emission



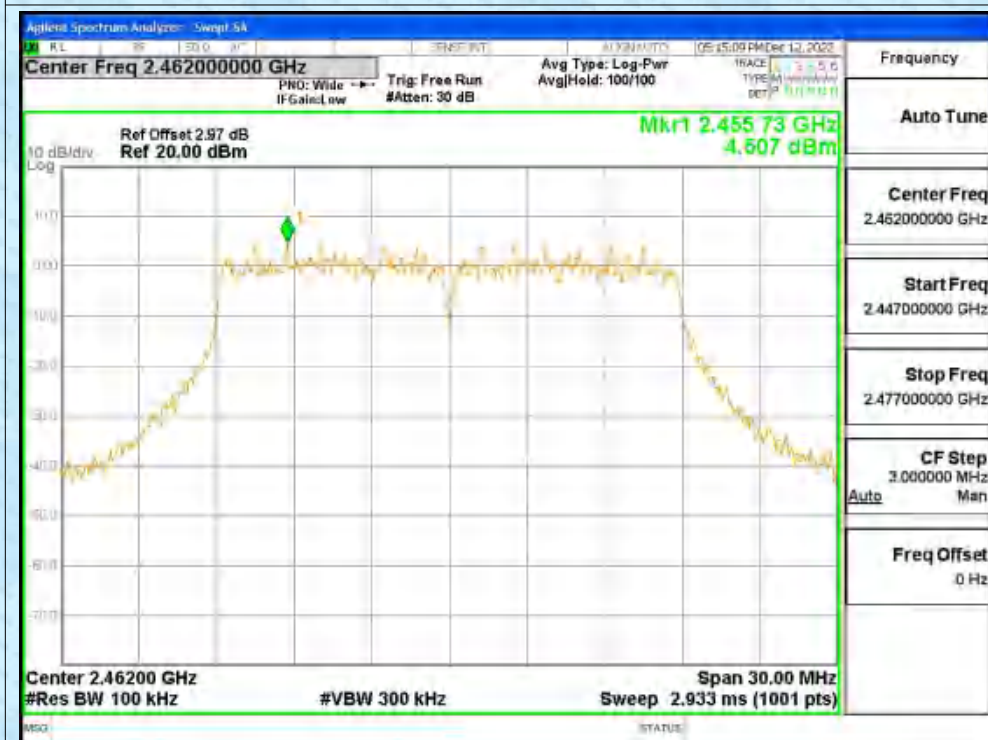
Band Edge NVNT n20 2412MHz Ant1 Ref



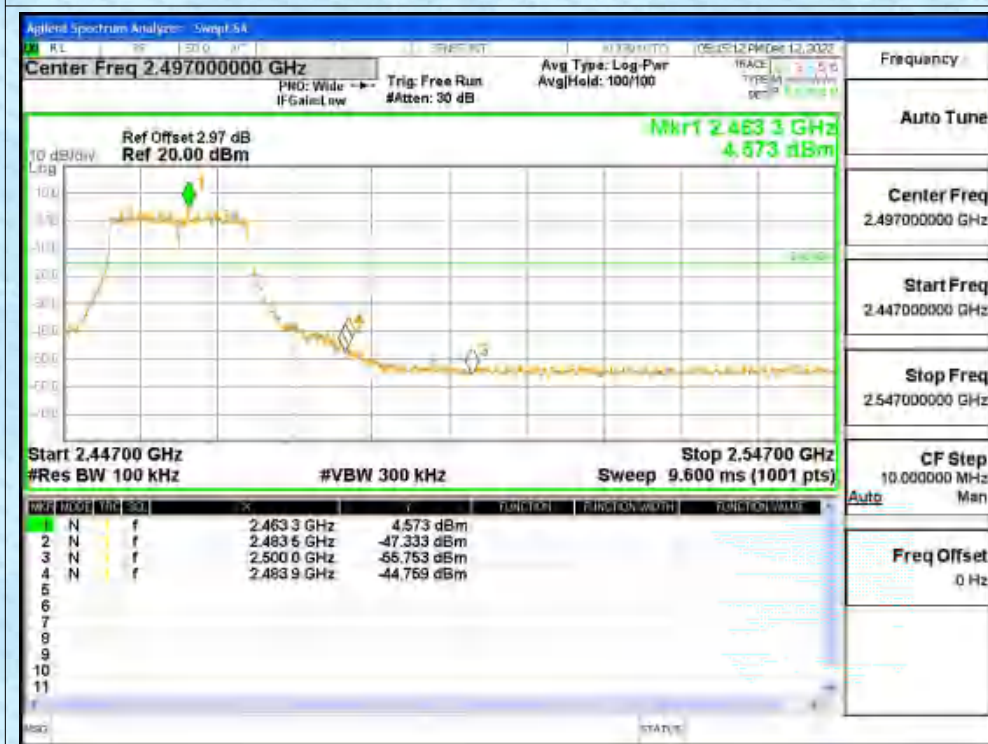
Band Edge NVNT n20 2412MHz Ant1 Emission



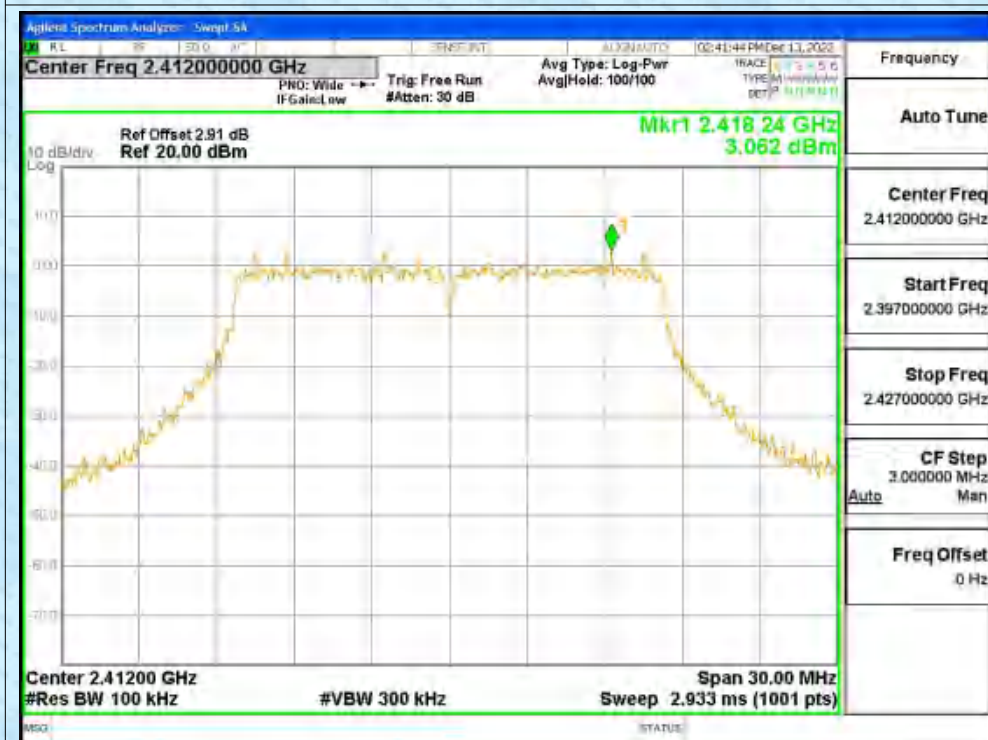
Band Edge NVNT n20 2462MHz Ant1 Ref



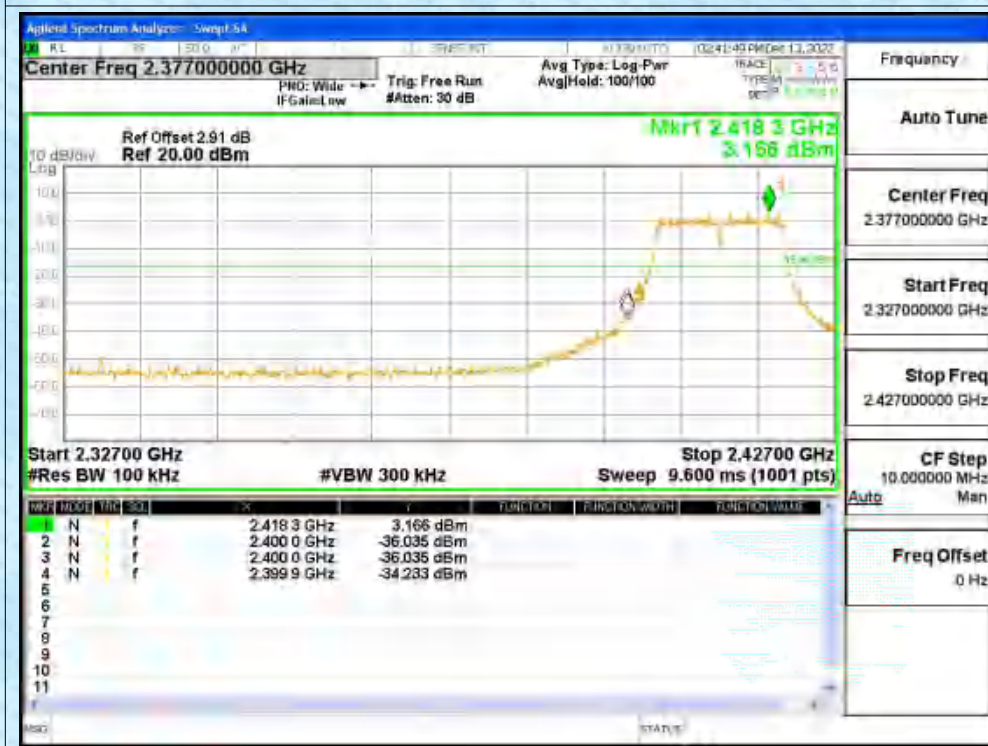
Band Edge NVNT n20 2462MHz Ant1 Emission



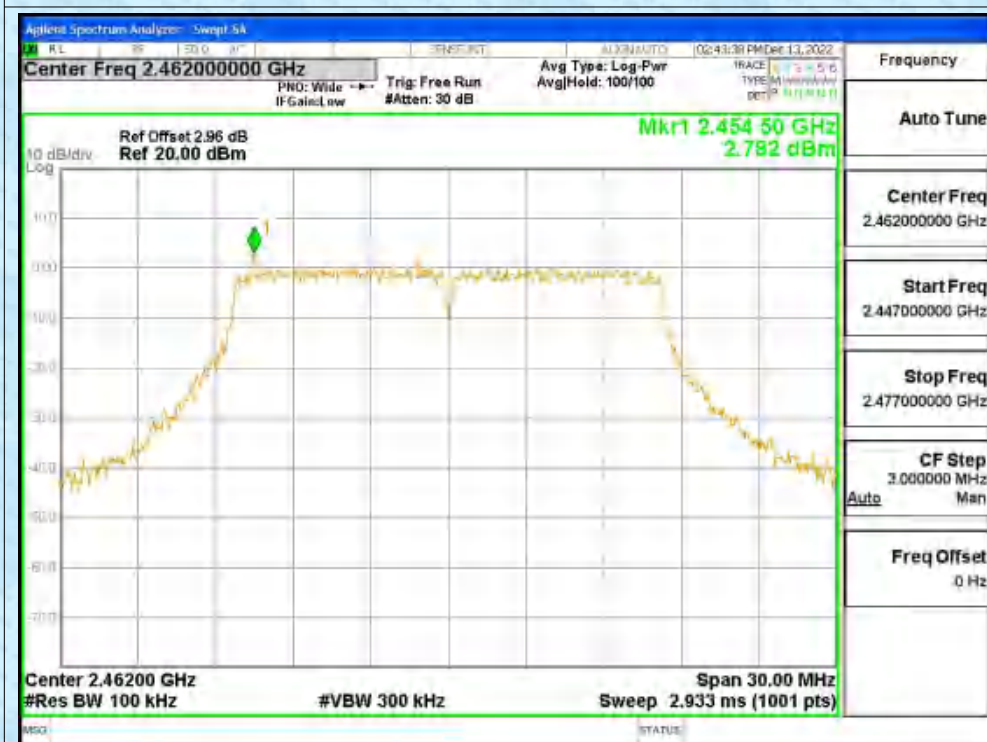
Band Edge NVNT n20 2412MHz Ant2 Ref



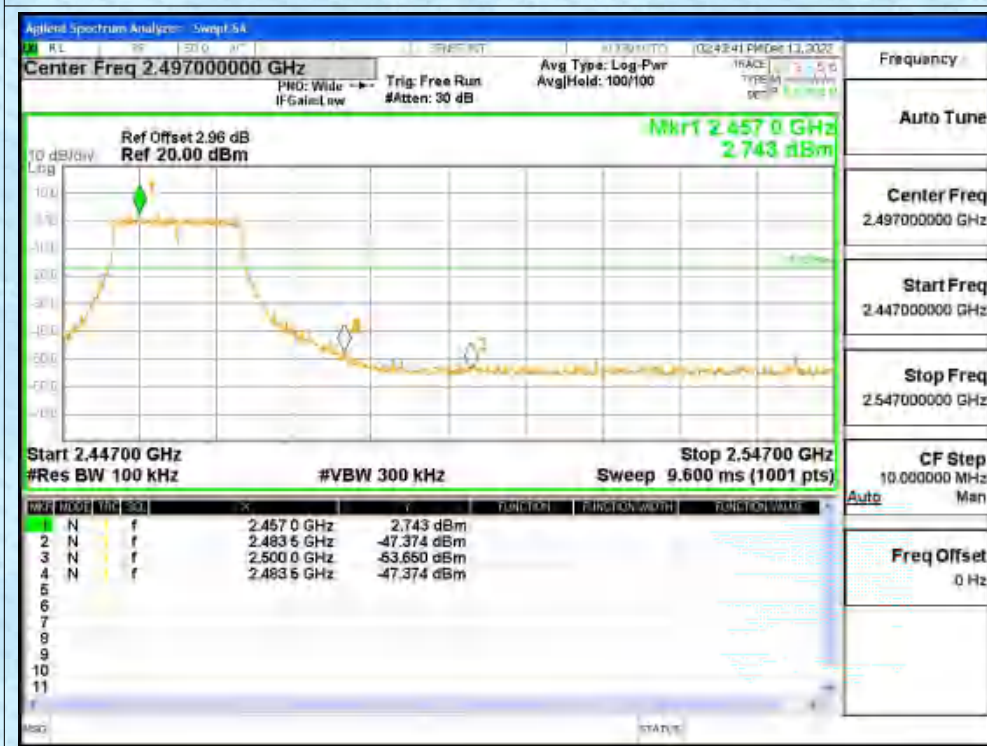
Band Edge NVNT n20 2412MHz Ant2 Emission



Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 Emission

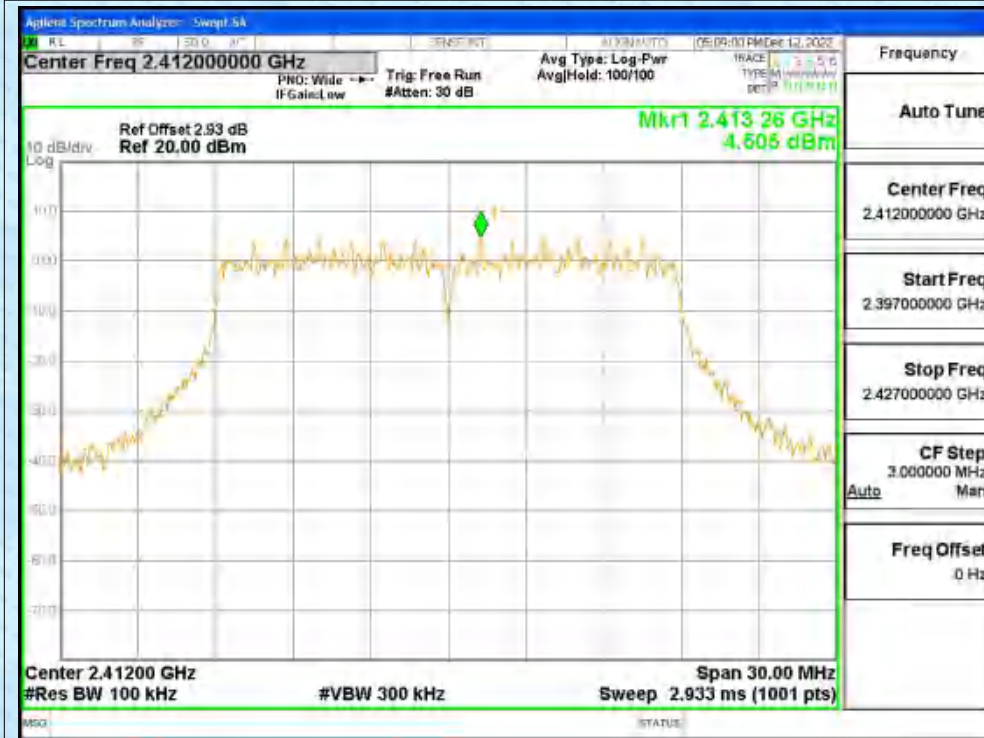


Conducted RF Spurious Emission

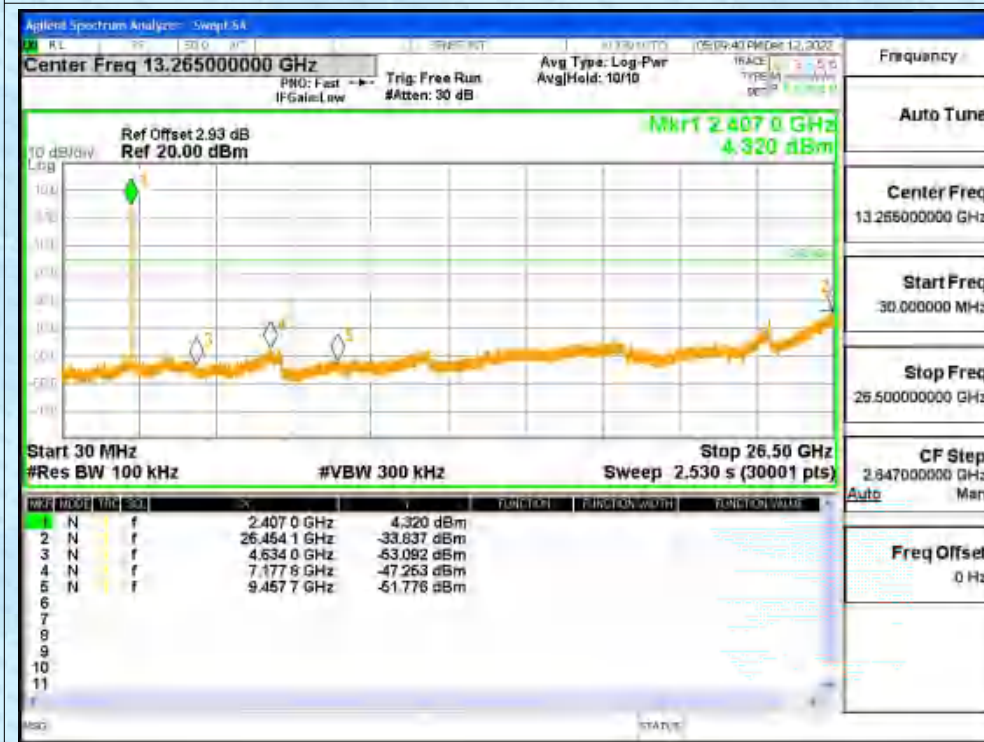
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	g	2412	Ant1/2	-38.34	-20	Pass
		2437		-38.15	-20	Pass
		2462		-38.67	-20	Pass
	n20	2412	Ant1	-38.23	-20	Pass
		2437		-38.43	-20	Pass
		2462		-36.99	-20	Pass
		2412	Ant2	-36.85	-20	Pass
		2437		-36.97	-20	Pass
		2462		-37.5	-20	Pass

Test Graphs

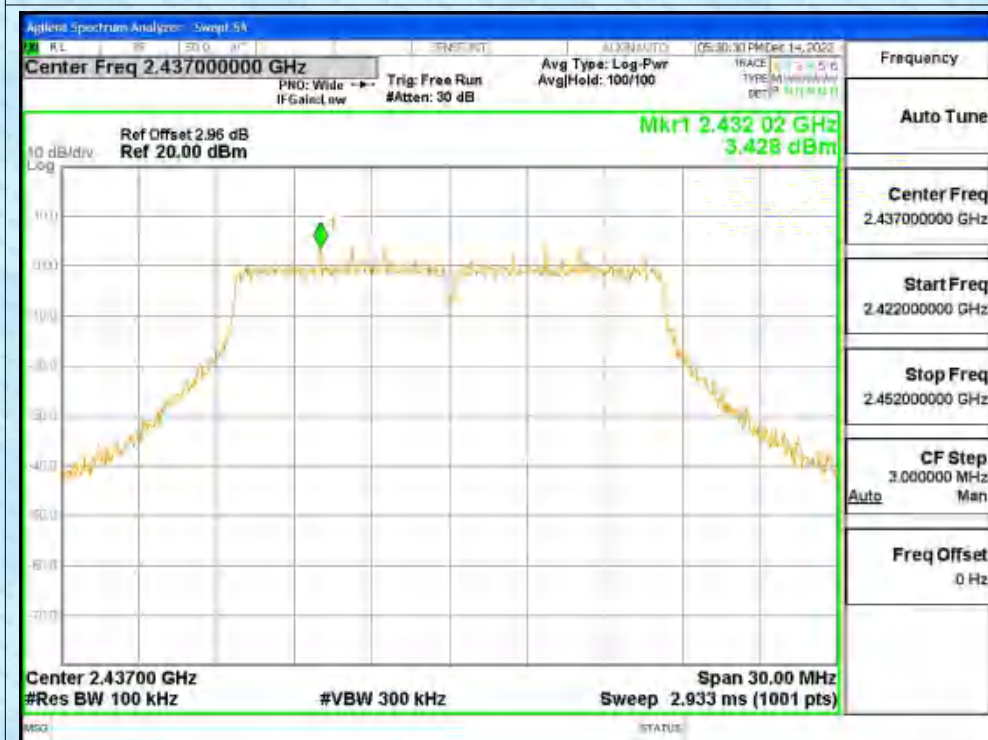
Tx. Spurious NVNT g 2412MHz Ant1 Ref



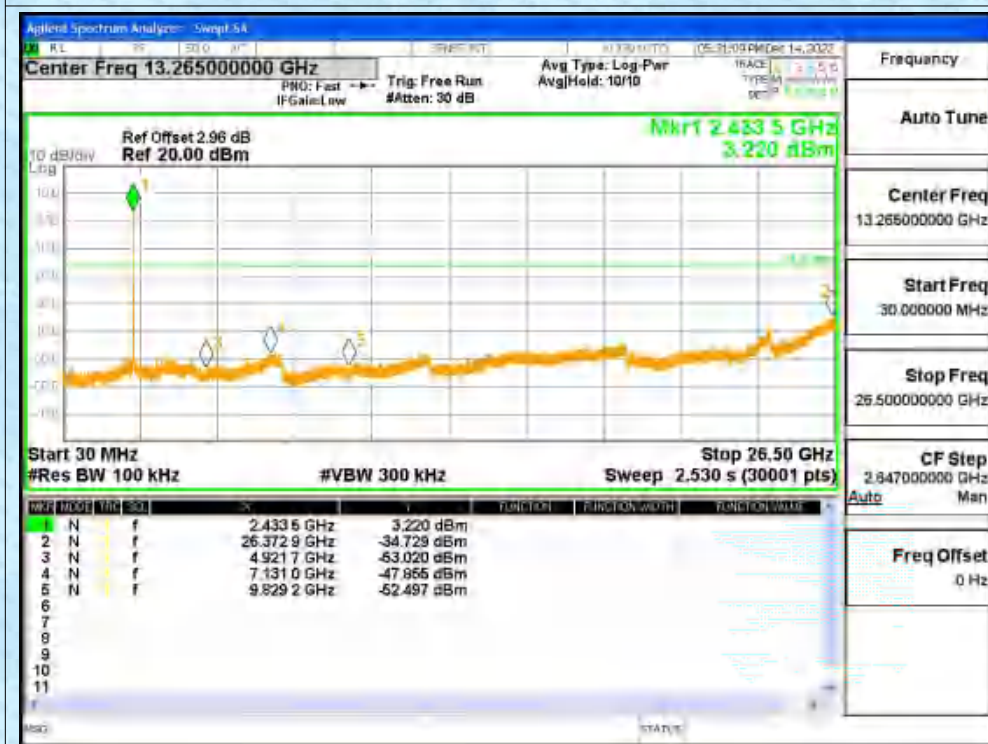
Tx. Spurious NVNT g 2412MHz Ant1 Emission



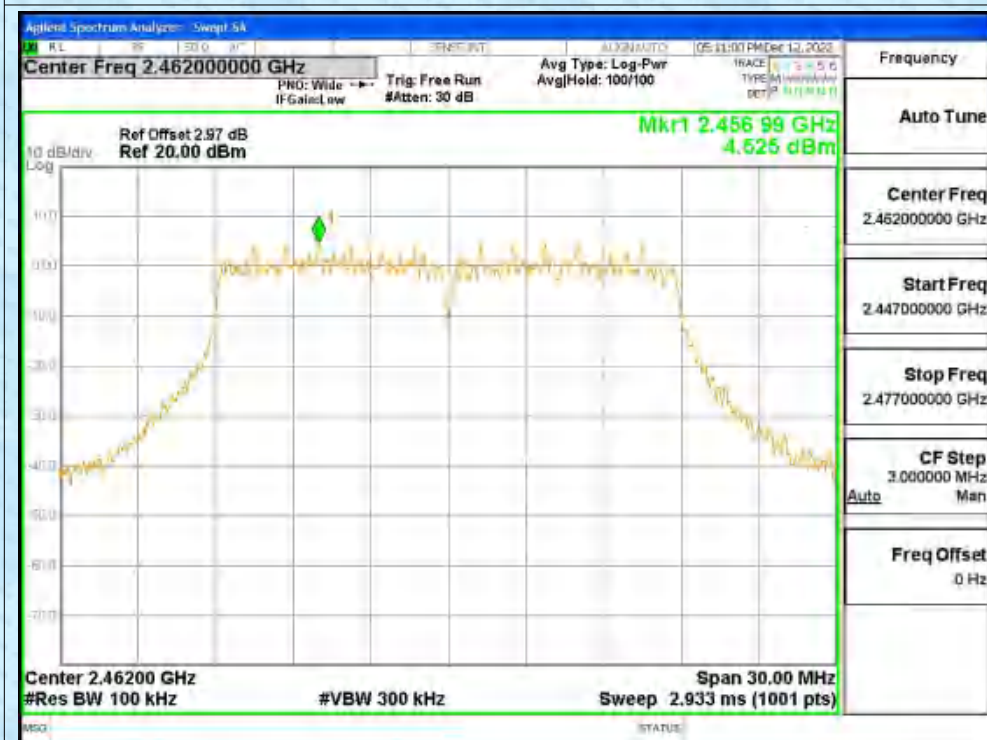
Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



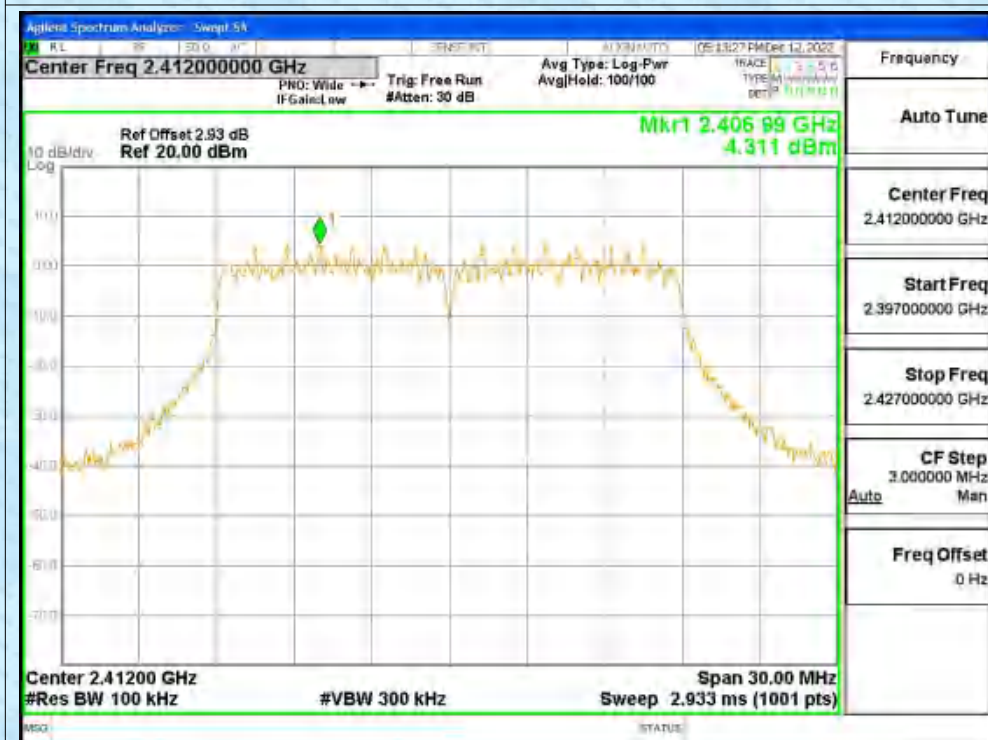
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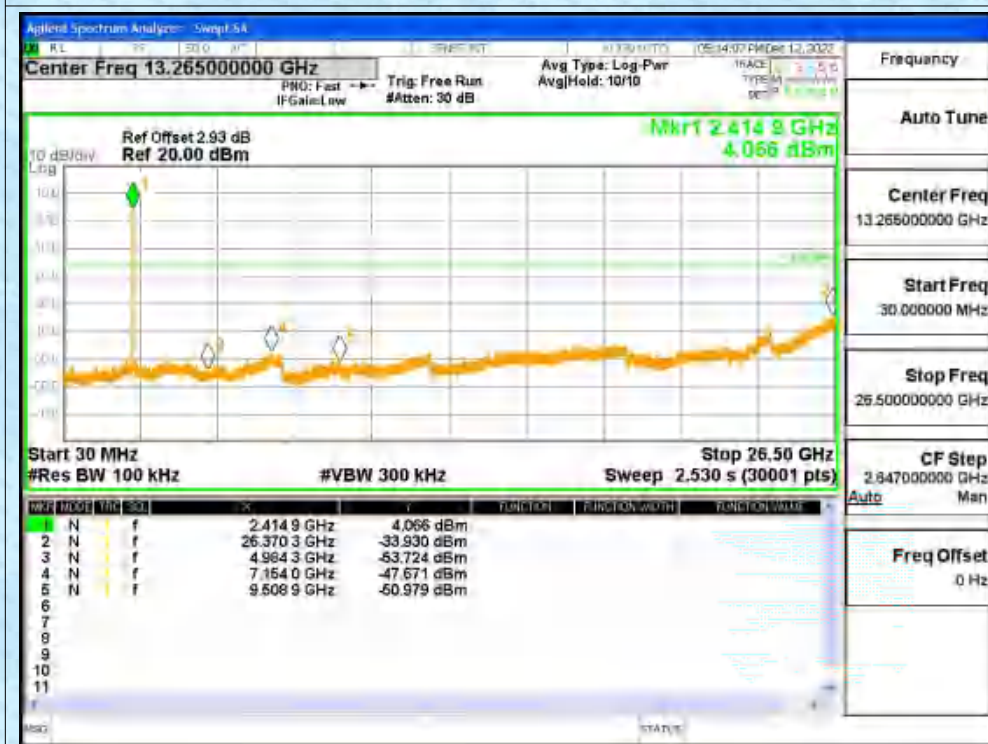
Tx. Spurious NVNT g 2462MHz Ant1 Emission



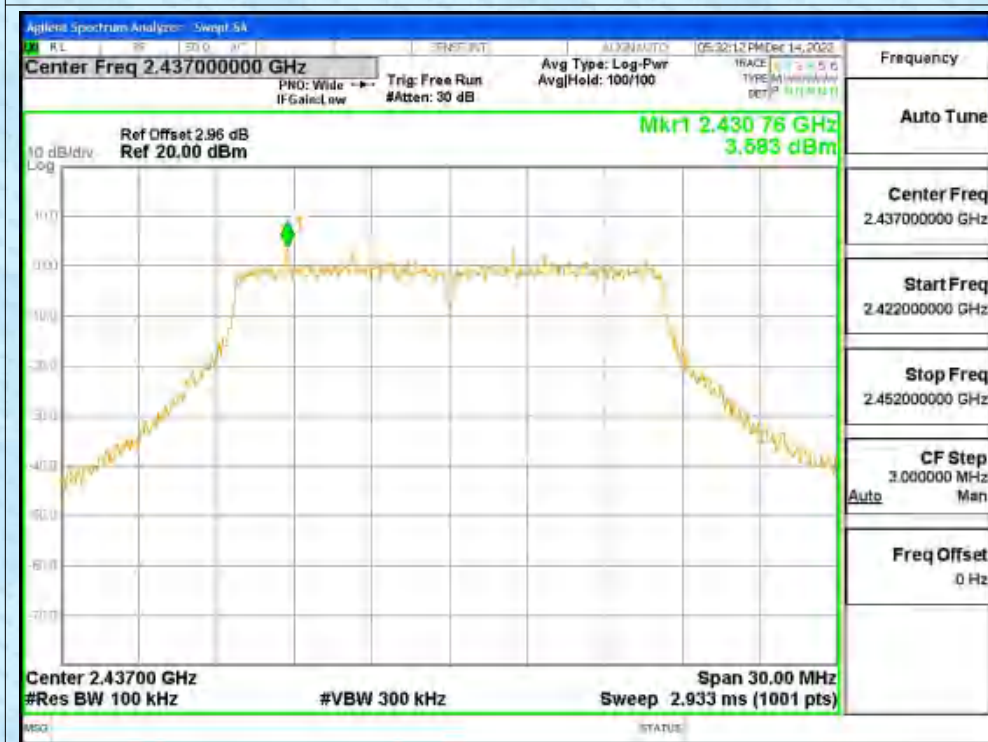
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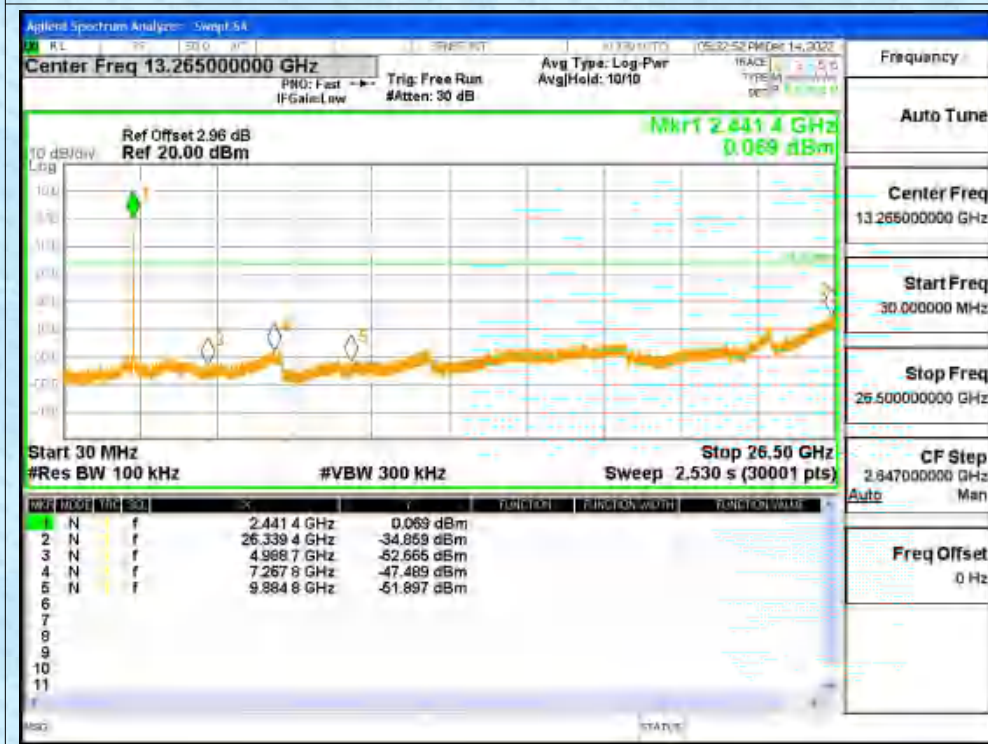
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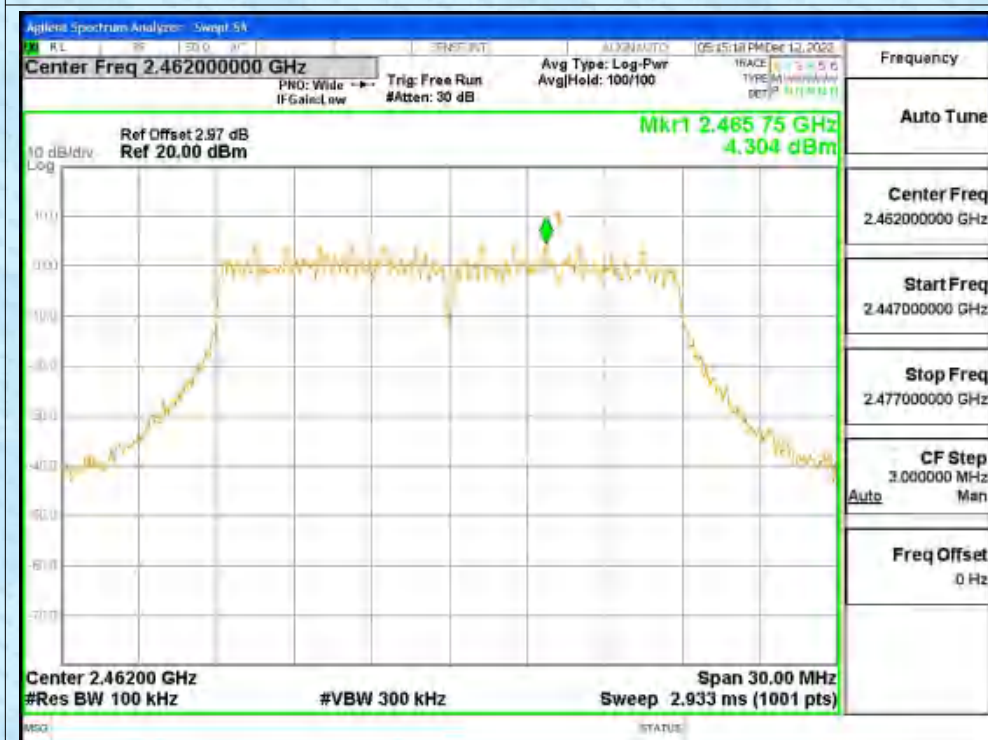
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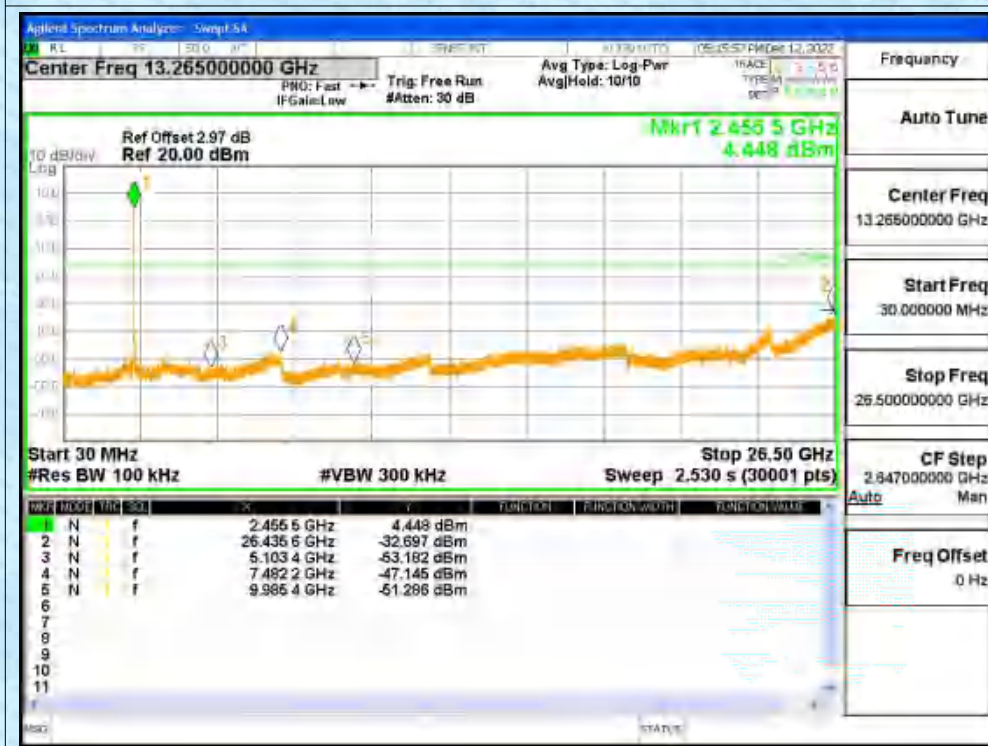
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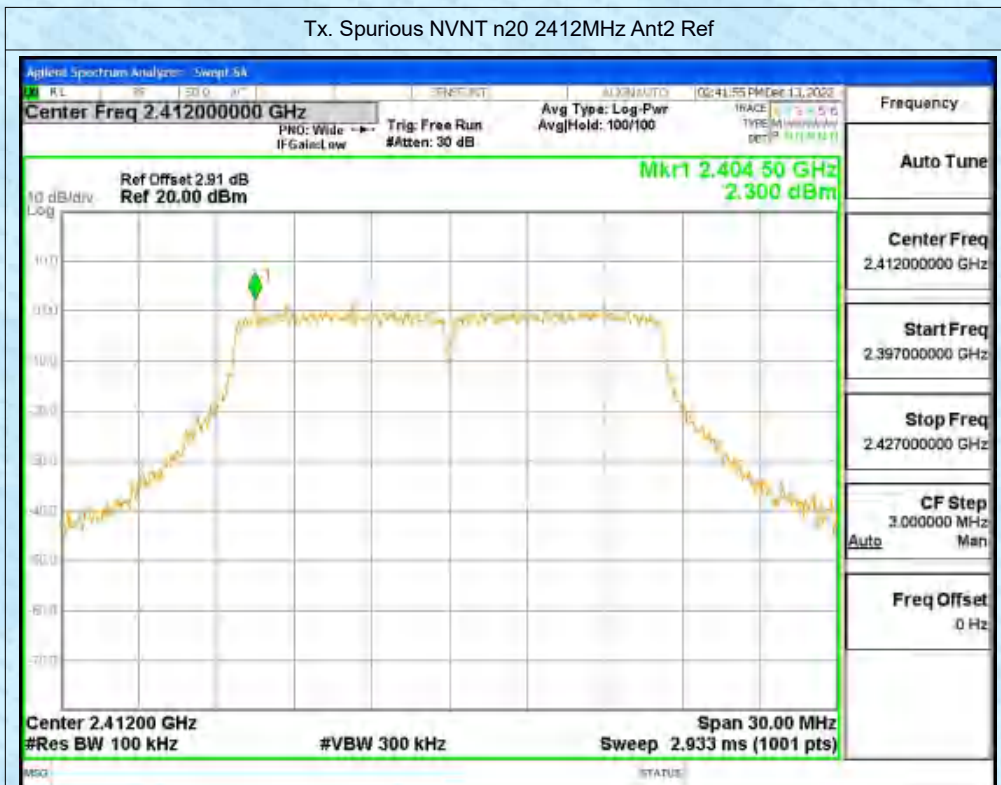
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



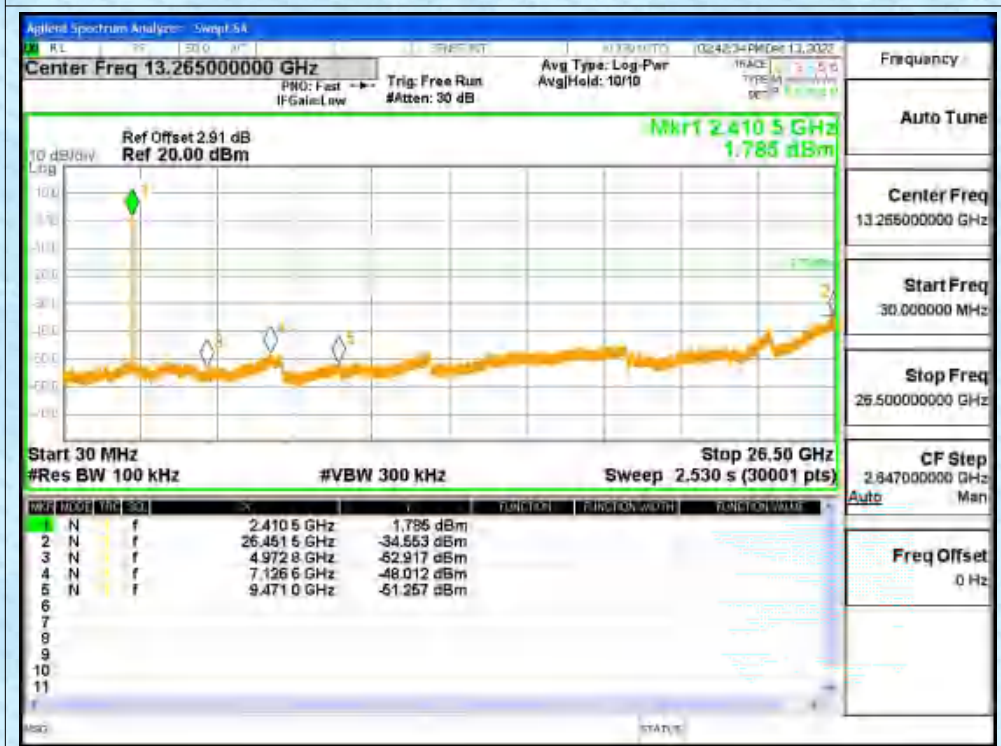
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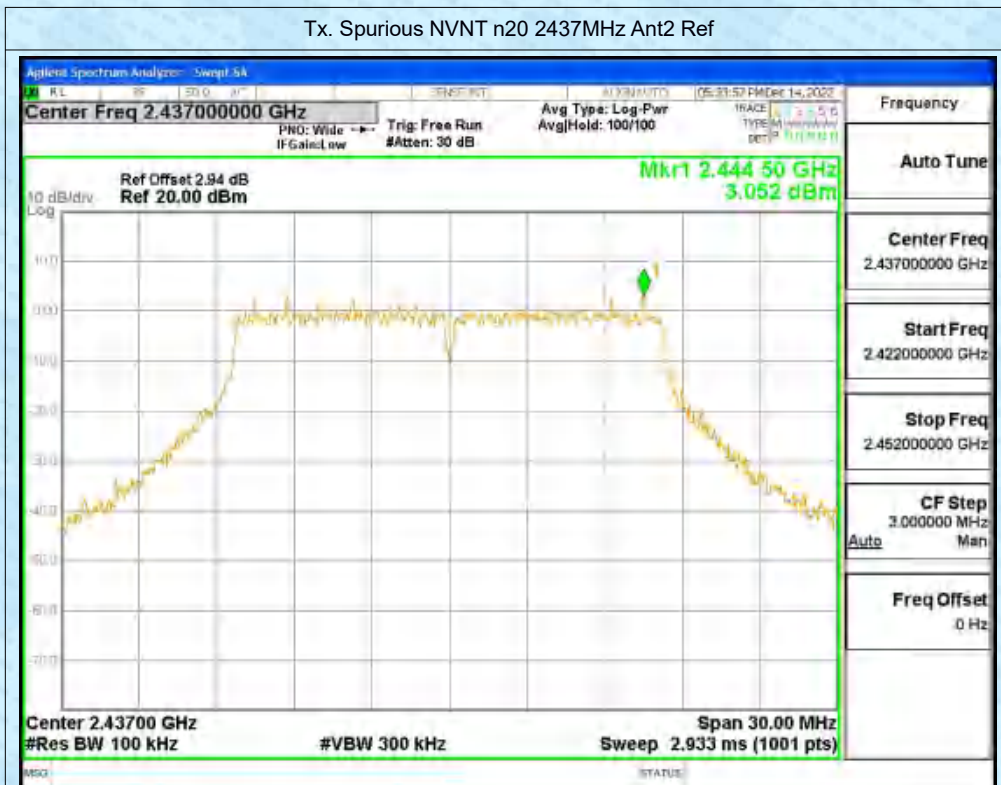
Tx. Spurious NVNT n20 2412MHz Ant2 Ref



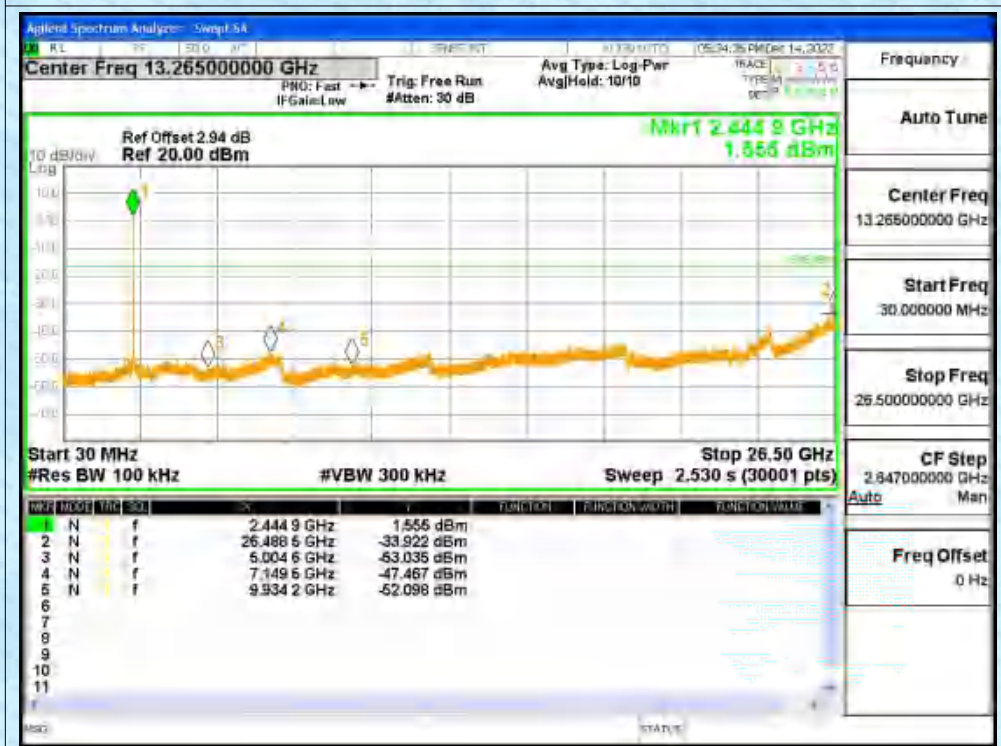
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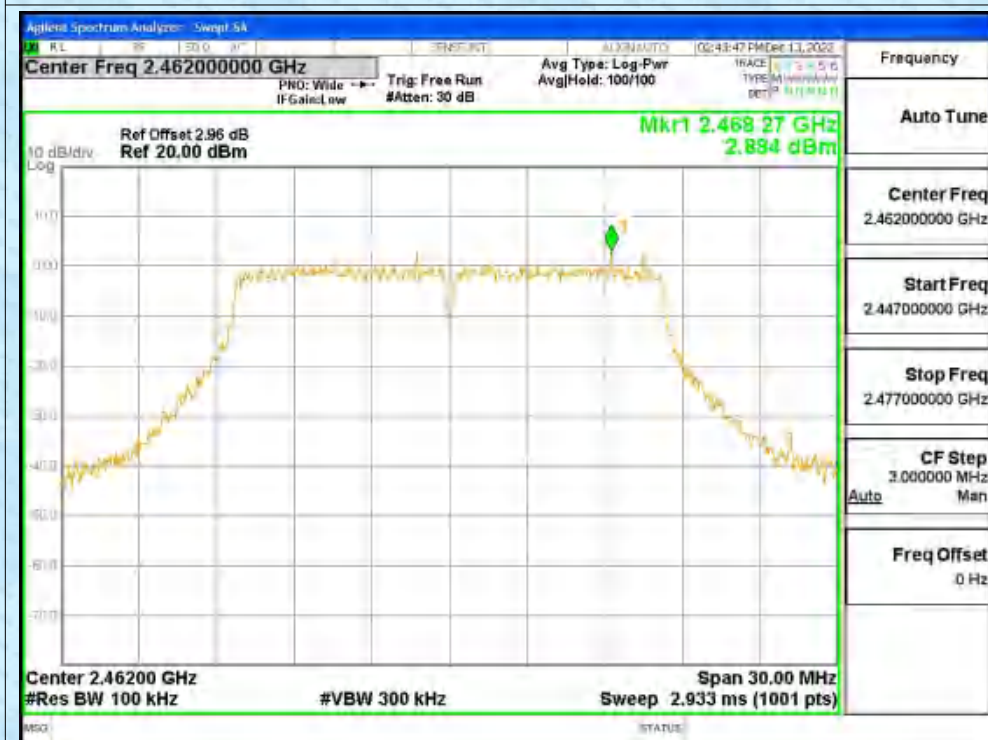
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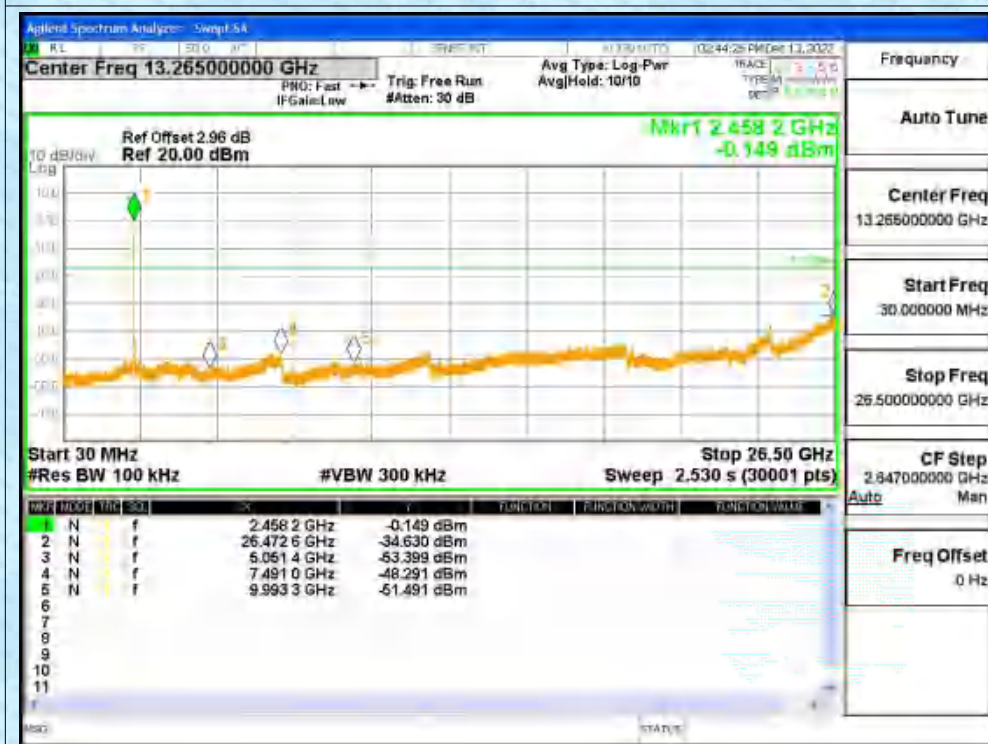
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



Tx. Spurious NVNT n20 2462MHz Ant2 Ref



Tx. Spurious NVNT n20 2462MHz Ant2 Emission



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