

Appendix RF test data for WIFI2.4G

Product Name: Battery Security Camera

Test Model: SP1

-6dB Bandwidth

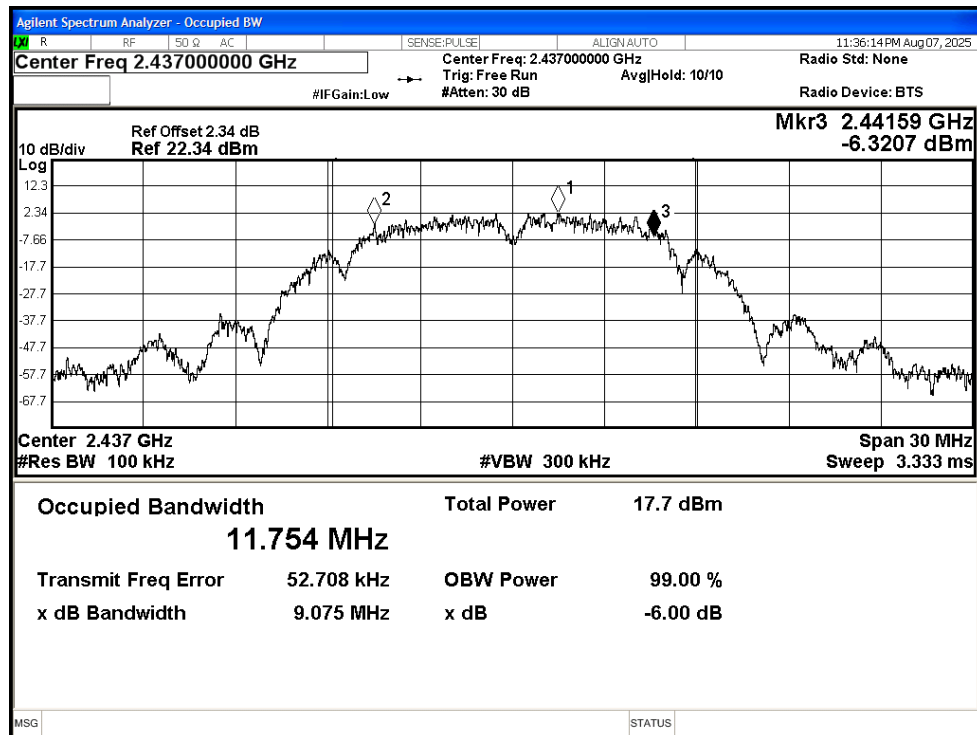
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.011	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.075	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.274	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.425	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.461	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.418	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.393	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.598	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.556	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.336	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.433	≥ 0.5	Pass
NVNT	n40	2452	Ant1	34.183	≥ 0.5	Pass
NVNT	ax20	2412	Ant1	17.068	≥ 0.5	Pass
NVNT	ax20	2437	Ant1	17.27	≥ 0.5	Pass
NVNT	ax20	2462	Ant1	17.094	≥ 0.5	Pass
NVNT	ax40	2422	Ant1	35.573	≥ 0.5	Pass
NVNT	ax40	2437	Ant1	35.571	≥ 0.5	Pass
NVNT	ax40	2452	Ant1	35.398	≥ 0.5	Pass

Test Graphs

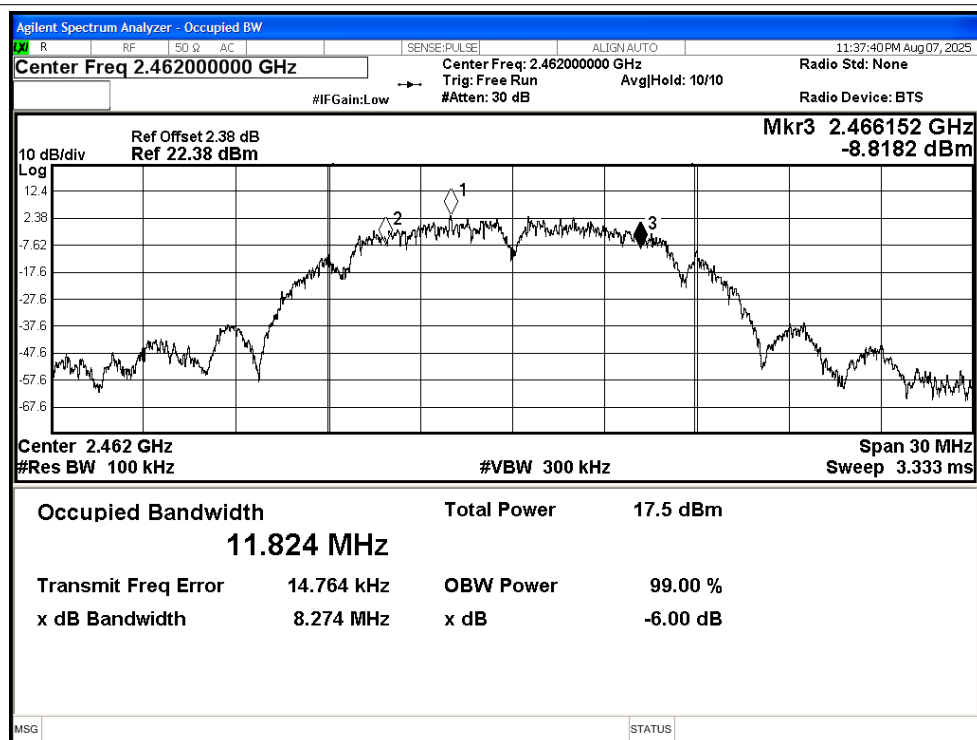
-6dB Bandwidth NVNT b 2412MHz Ant1



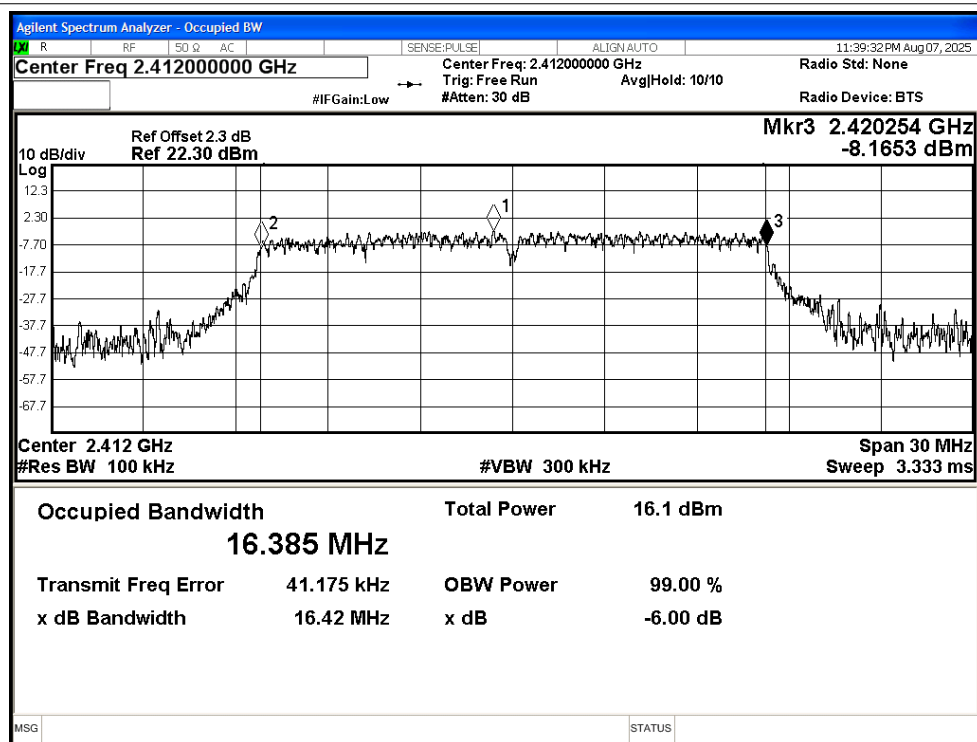
-6dB Bandwidth NVNT b 2437MHz Ant1



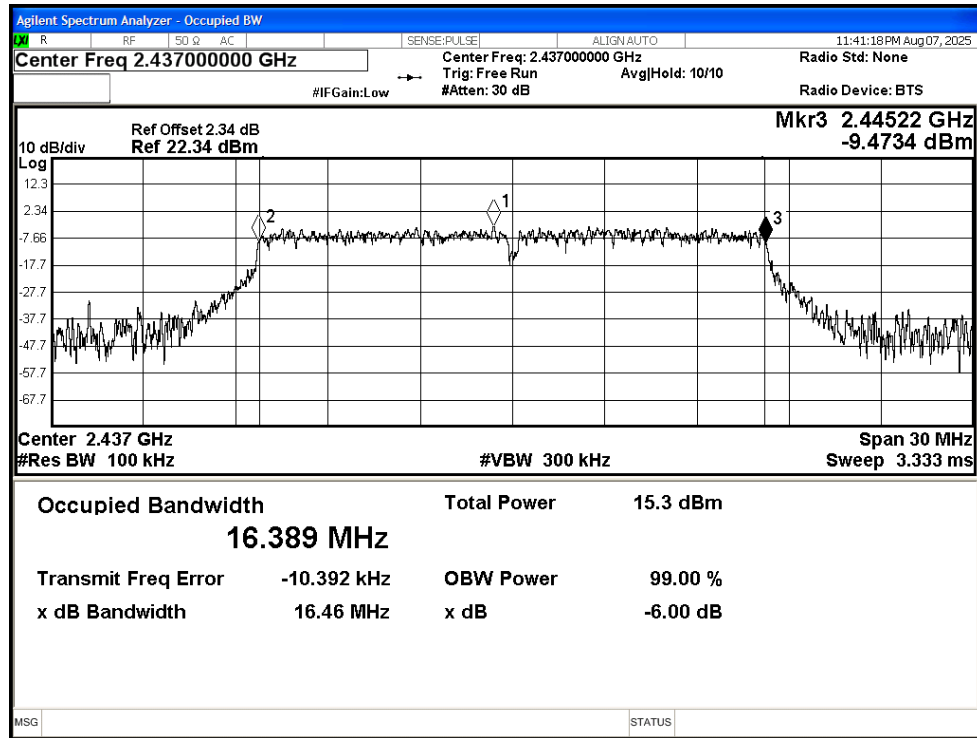
-6dB Bandwidth NVNT b 2462MHz Ant1



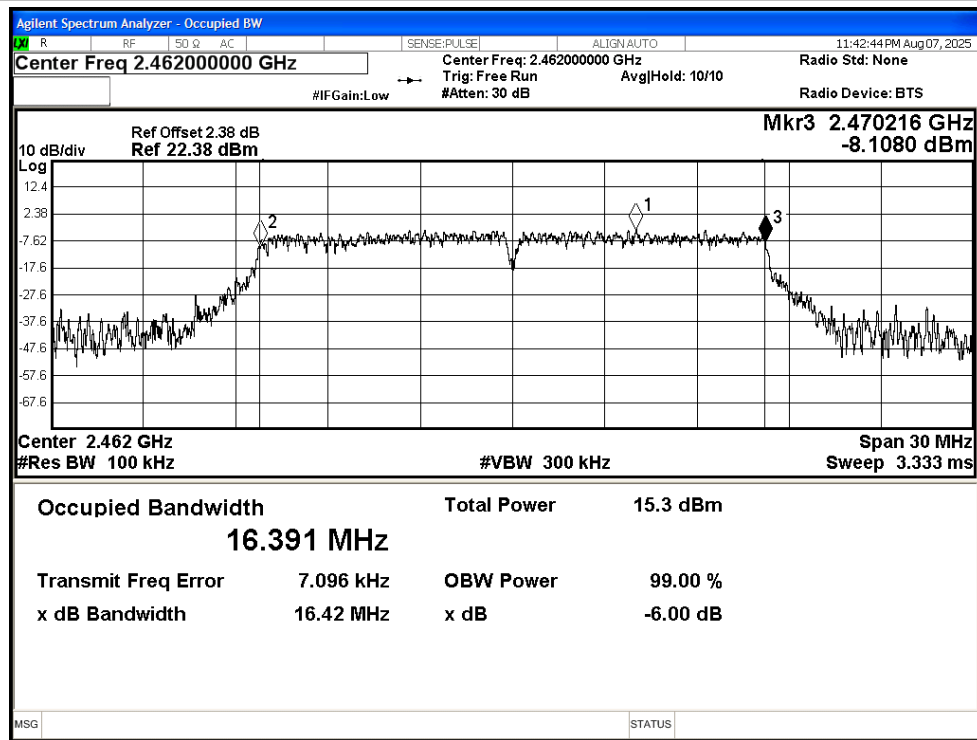
-6dB Bandwidth NVNT g 2412MHz Ant1



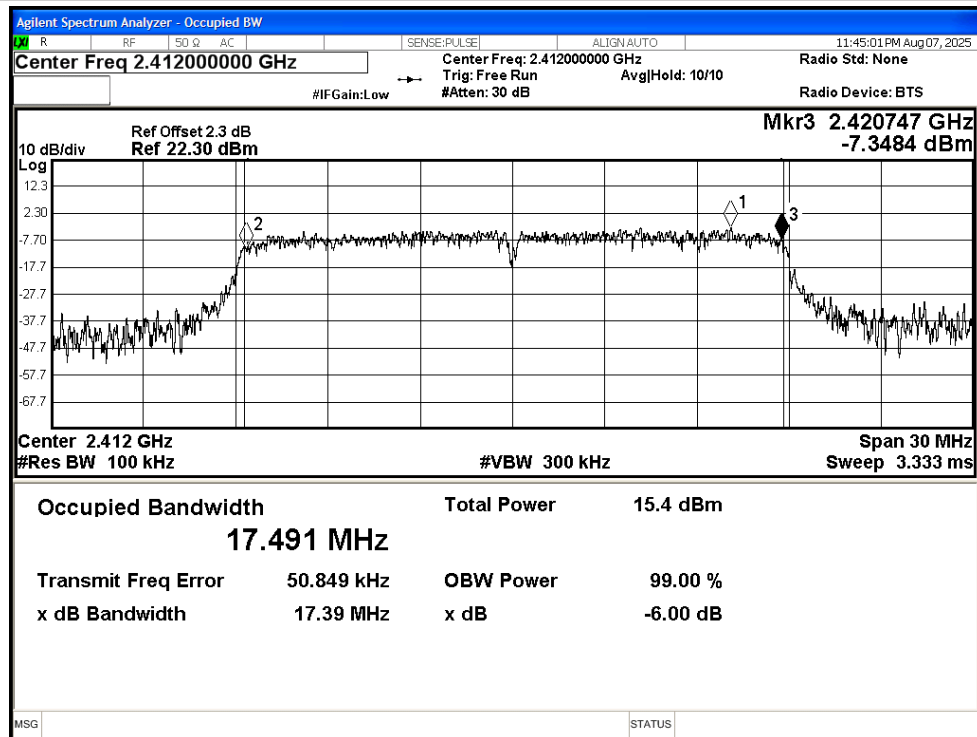
-6dB Bandwidth NVNT g 2437MHz Ant1



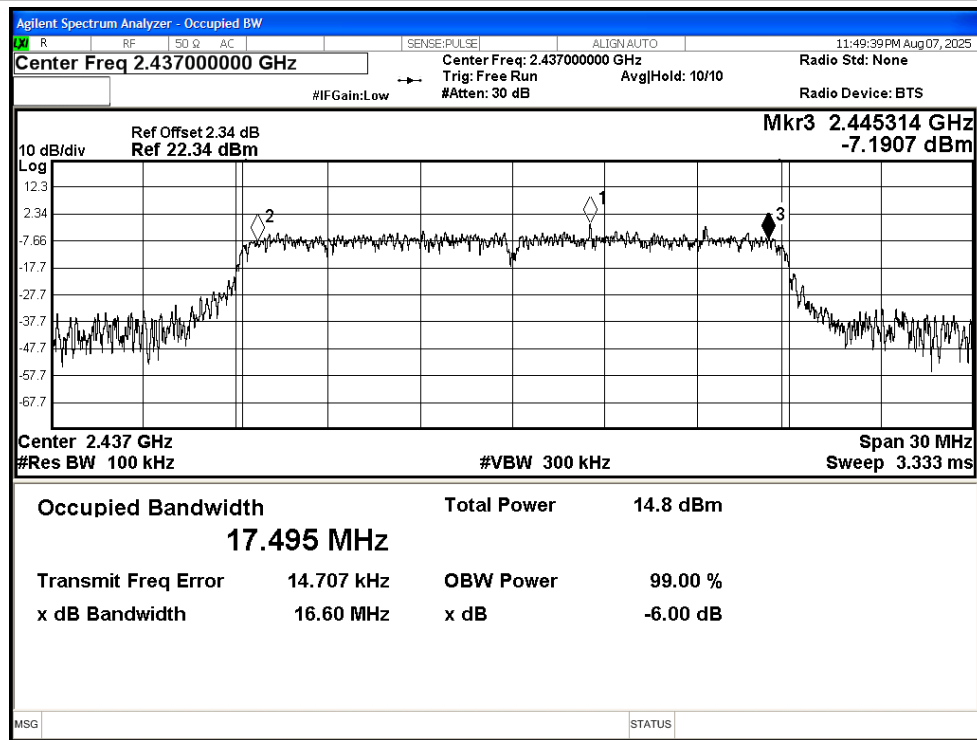
-6dB Bandwidth NVNT g 2462MHz Ant1



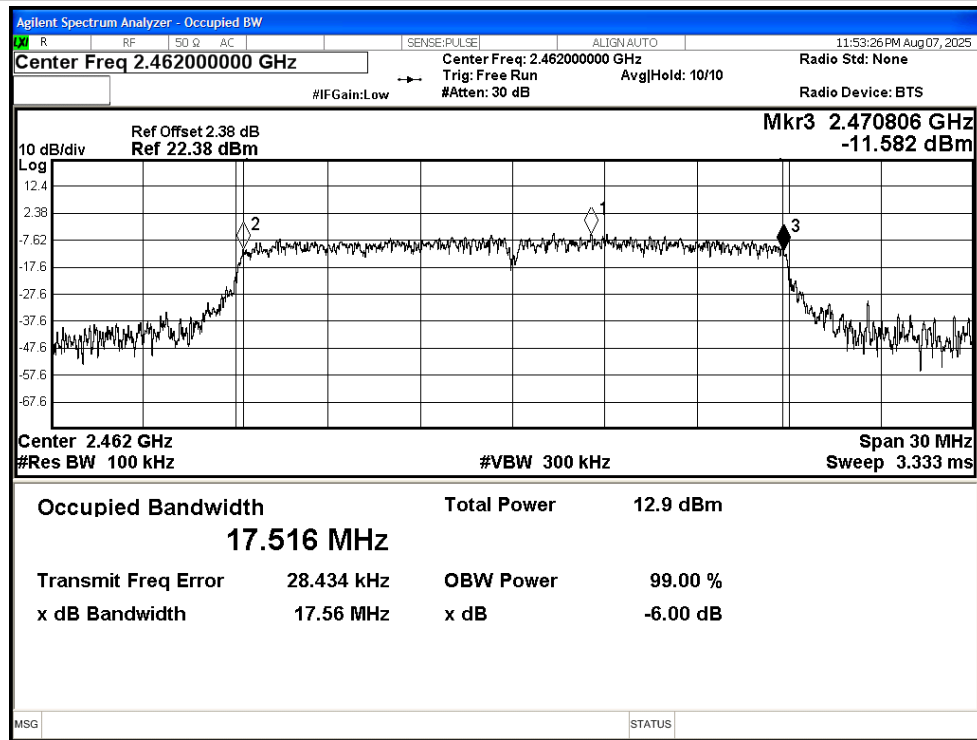
-6dB Bandwidth NVNT n20 2412MHz Ant1



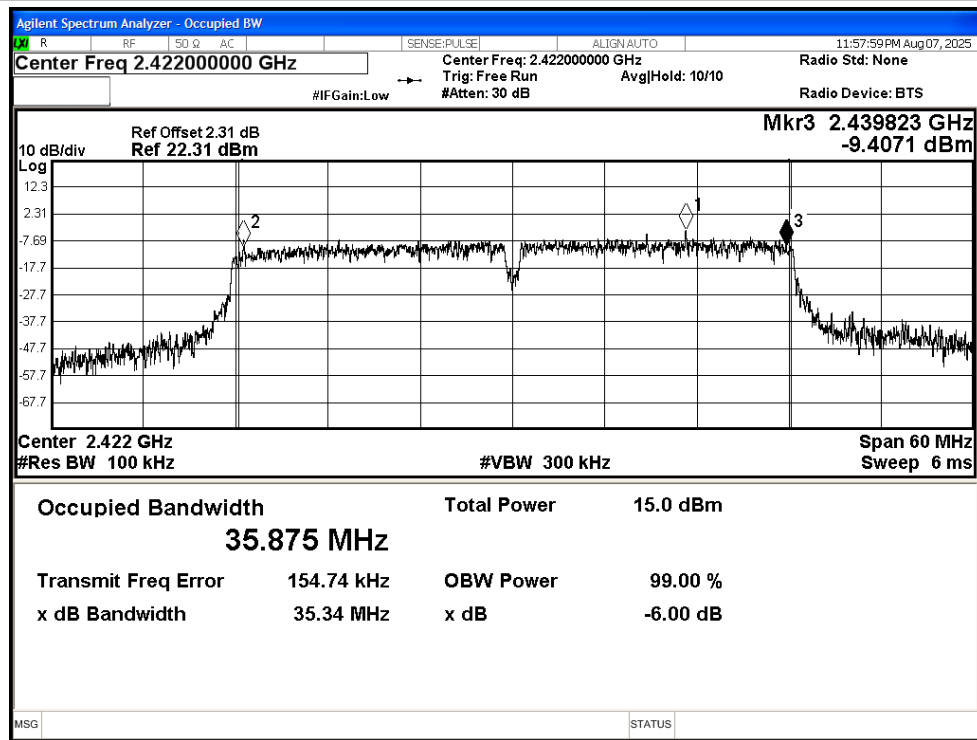
-6dB Bandwidth NVNT n20 2437MHz Ant1



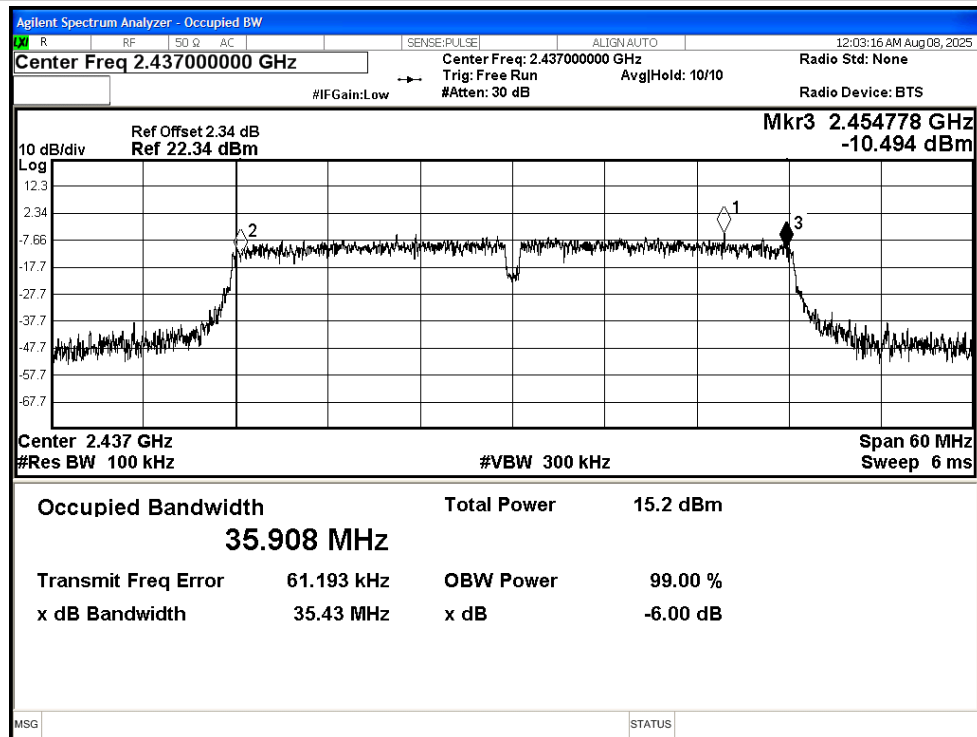
-6dB Bandwidth NVNT n20 2462MHz Ant1



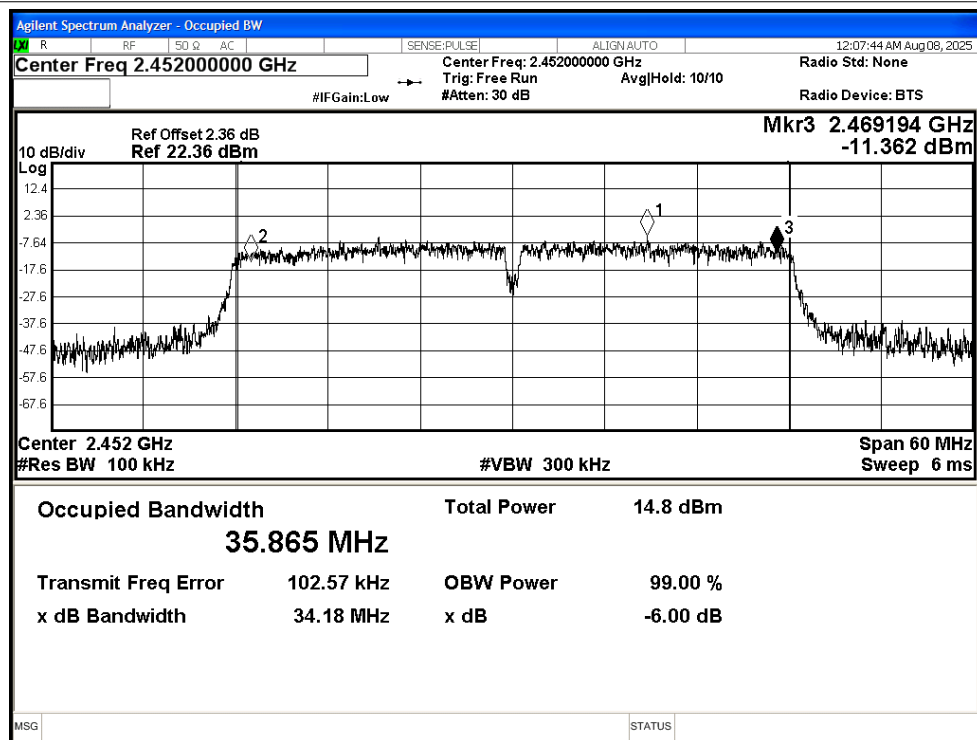
-6dB Bandwidth NVNT n40 2422MHz Ant1



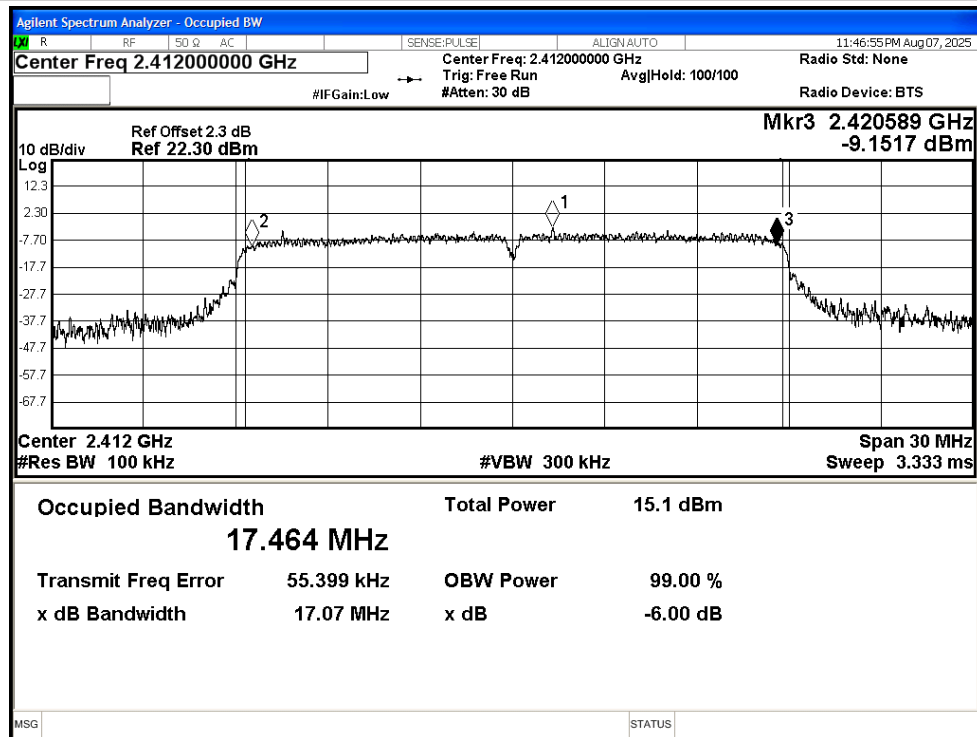
-6dB Bandwidth NVNT n40 2437MHz Ant1



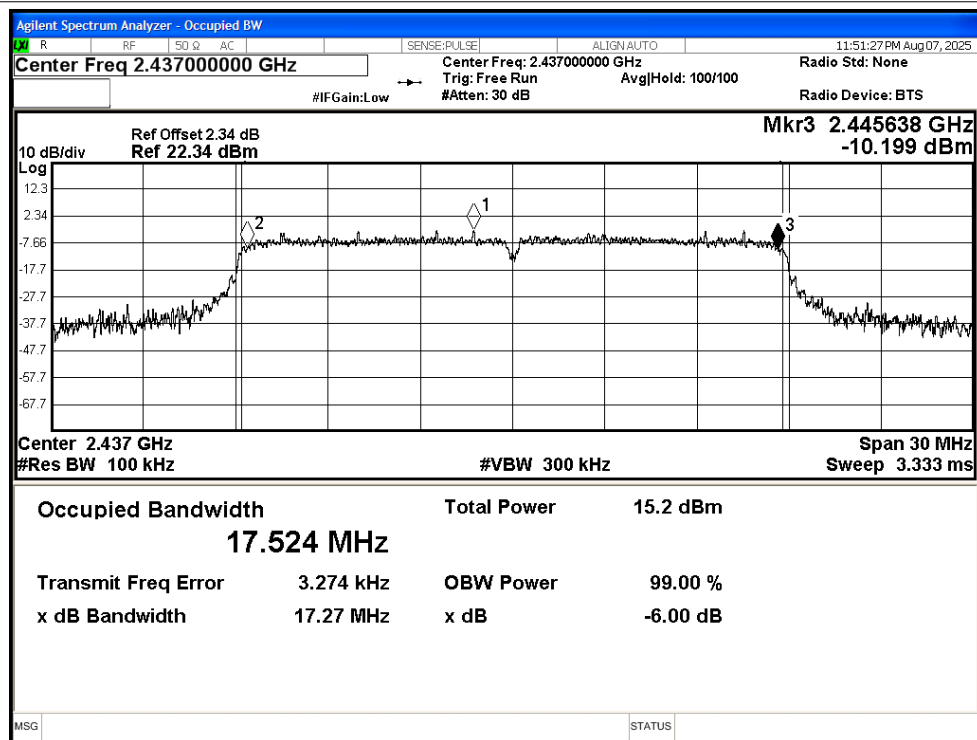
-6dB Bandwidth NVNT n40 2452MHz Ant1



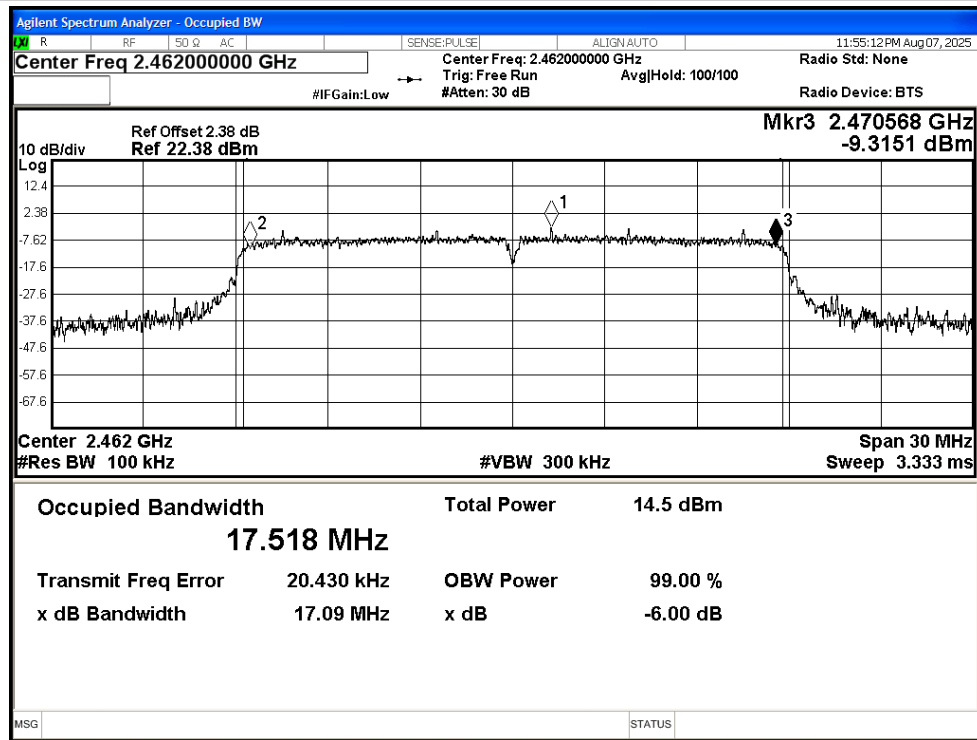
-6dB Bandwidth NVNT ax20 2412MHz Ant1



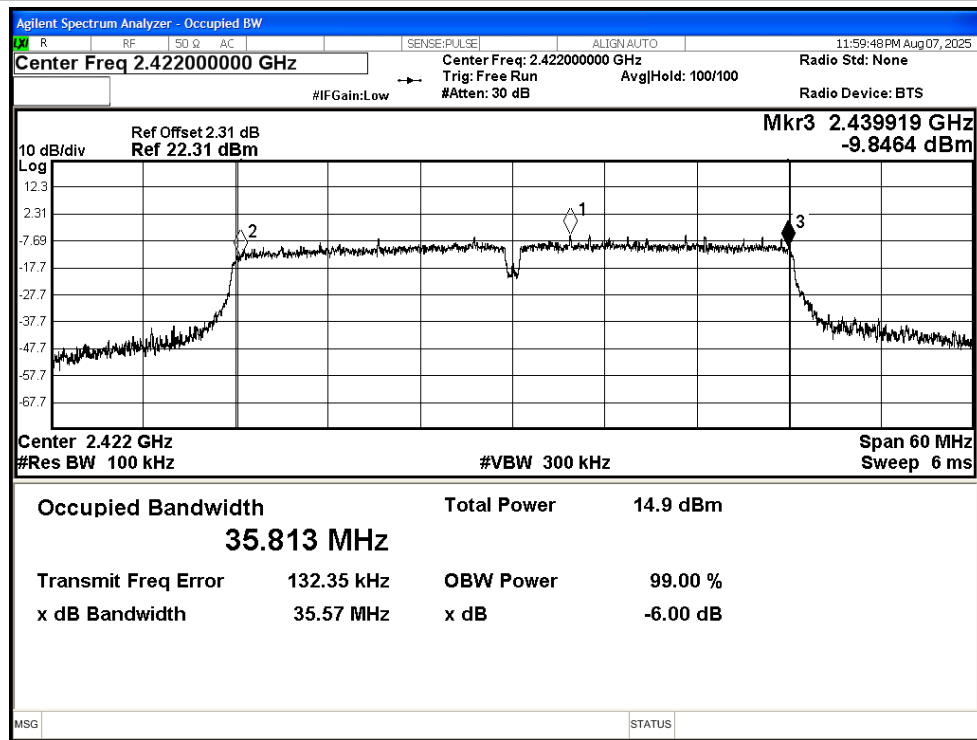
-6dB Bandwidth NVNT ax20 2437MHz Ant1



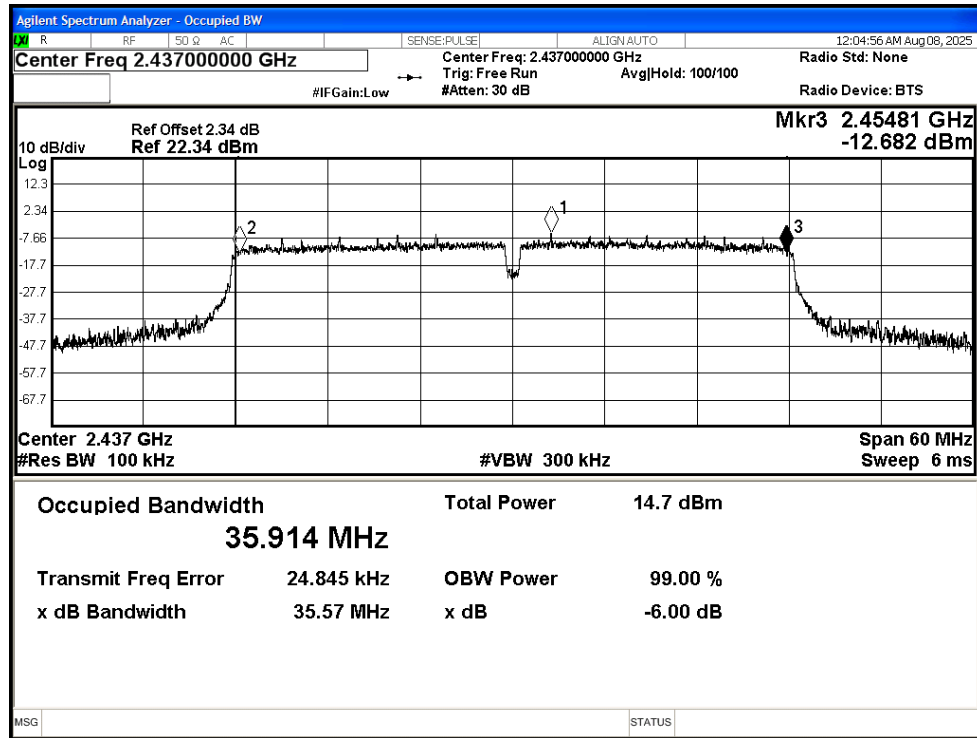
-6dB Bandwidth NVNT ax20 2462MHz Ant1



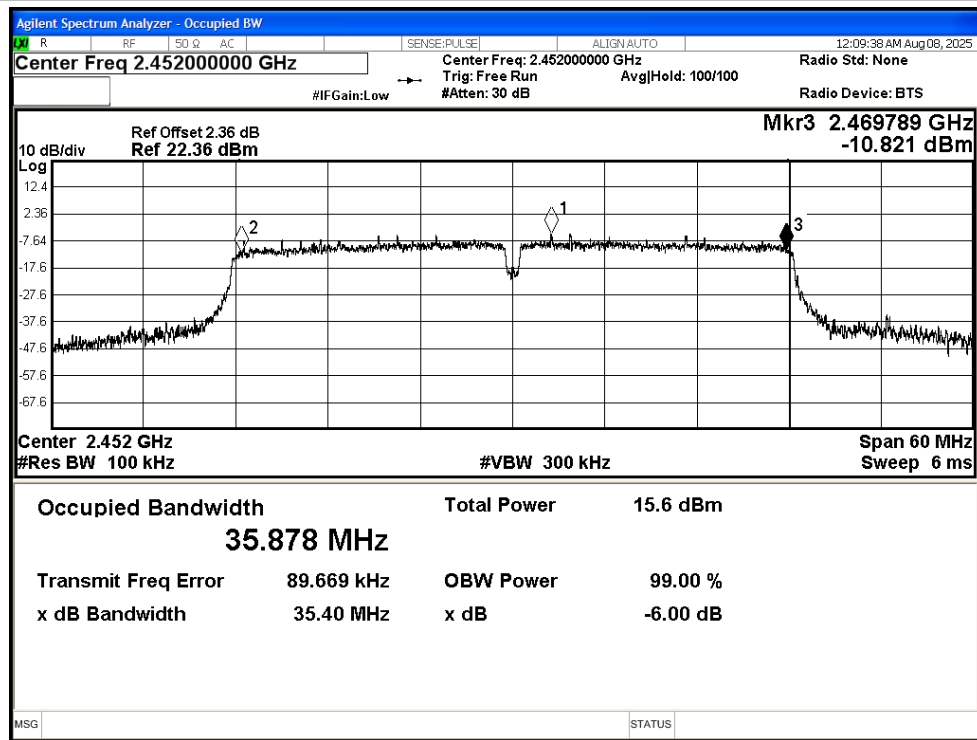
-6dB Bandwidth NVNT ax40 2422MHz Ant1



-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1



Maximum Peak Conducted Output Power

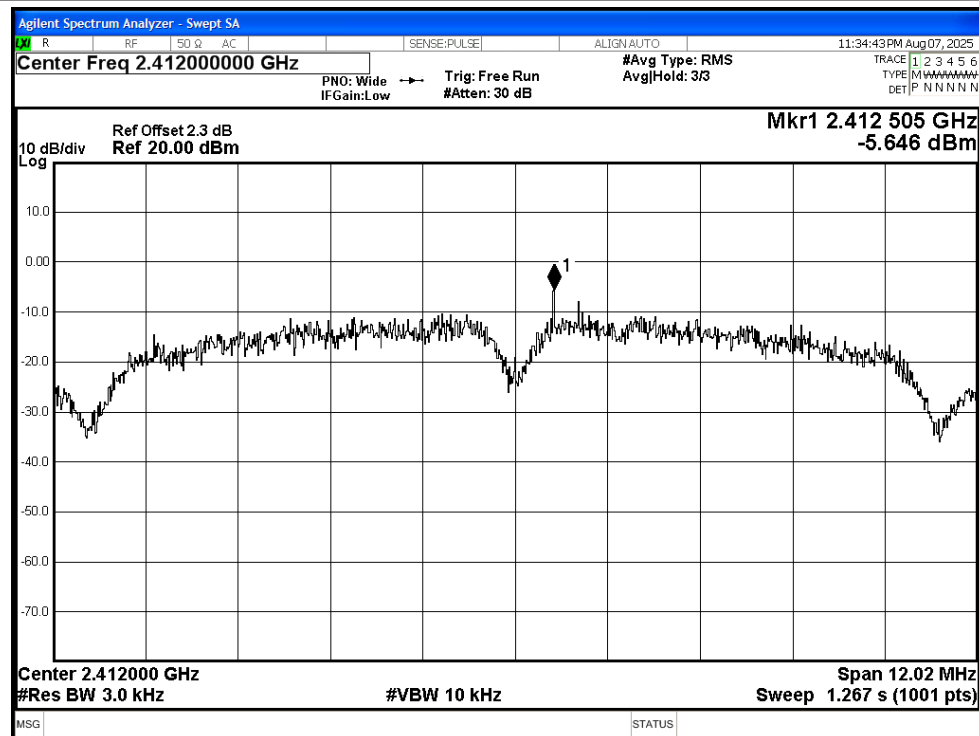
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.87	30	Pass
NVNT	b	2437	Ant1	14.06	30	Pass
NVNT	b	2462	Ant1	13.99	30	Pass
NVNT	g	2412	Ant1	14.74	30	Pass
NVNT	g	2437	Ant1	14.22	30	Pass
NVNT	g	2462	Ant1	14.27	30	Pass
NVNT	n20	2412	Ant1	14.05	30	Pass
NVNT	n20	2437	Ant1	13.25	30	Pass
NVNT	n20	2462	Ant1	13.17	30	Pass
NVNT	n40	2422	Ant1	13.20	30	Pass
NVNT	n40	2437	Ant1	13.57	30	Pass
NVNT	n40	2452	Ant1	13.25	30	Pass
NVNT	ax20	2412	Ant1	13.86	30	Pass
NVNT	ax20	2437	Ant1	13.80	30	Pass
NVNT	ax20	2462	Ant1	13.14	30	Pass
NVNT	ax40	2422	Ant1	13.37	30	Pass
NVNT	ax40	2437	Ant1	13.21	30	Pass
NVNT	ax40	2452	Ant1	14.01	30	Pass

Maximum Power Spectral Density Level

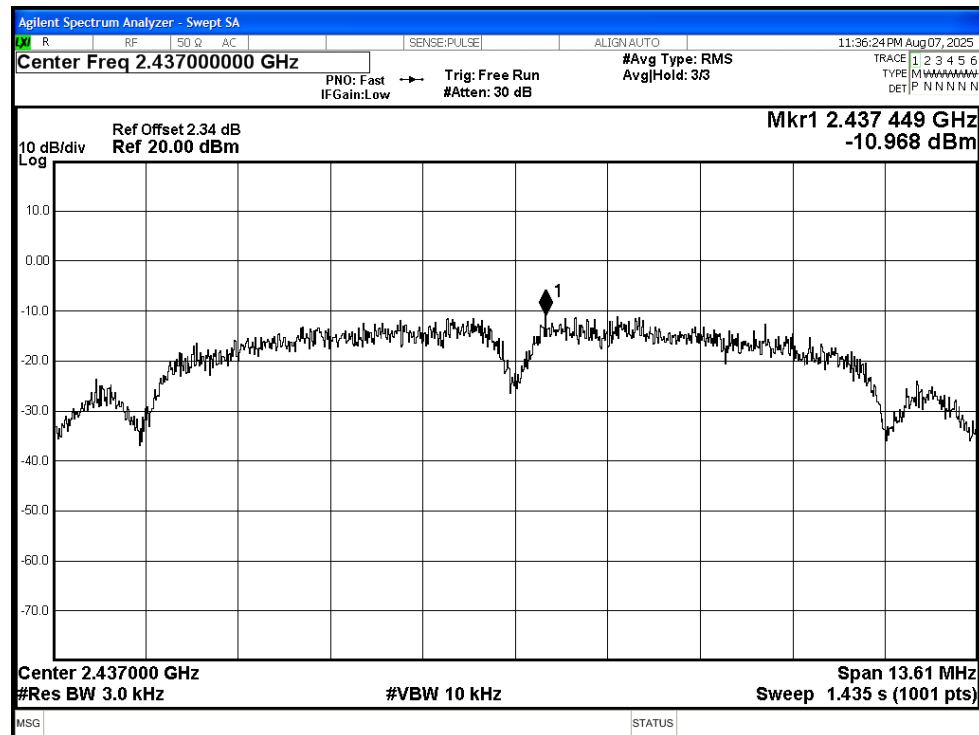
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-5.65	8	Pass
NVNT	b	2437	Ant1	-10.97	8	Pass
NVNT	b	2462	Ant1	-9.71	8	Pass
NVNT	g	2412	Ant1	-13.86	8	Pass
NVNT	g	2437	Ant1	-15.16	8	Pass
NVNT	g	2462	Ant1	-14.47	8	Pass
NVNT	n20	2412	Ant1	-14.22	8	Pass
NVNT	n20	2437	Ant1	-15.68	8	Pass
NVNT	n20	2462	Ant1	-16.91	8	Pass
NVNT	n40	2422	Ant1	-18.59	8	Pass
NVNT	n40	2437	Ant1	-18.48	8	Pass
NVNT	n40	2452	Ant1	-18.65	8	Pass
NVNT	ax20	2412	Ant1	-15.92	8	Pass
NVNT	ax20	2437	Ant1	-16.57	8	Pass
NVNT	ax20	2462	Ant1	-16.41	8	Pass
NVNT	ax40	2422	Ant1	-19.44	8	Pass
NVNT	ax40	2437	Ant1	-20.46	8	Pass
NVNT	ax40	2452	Ant1	-19.57	8	Pass

Test Graphs

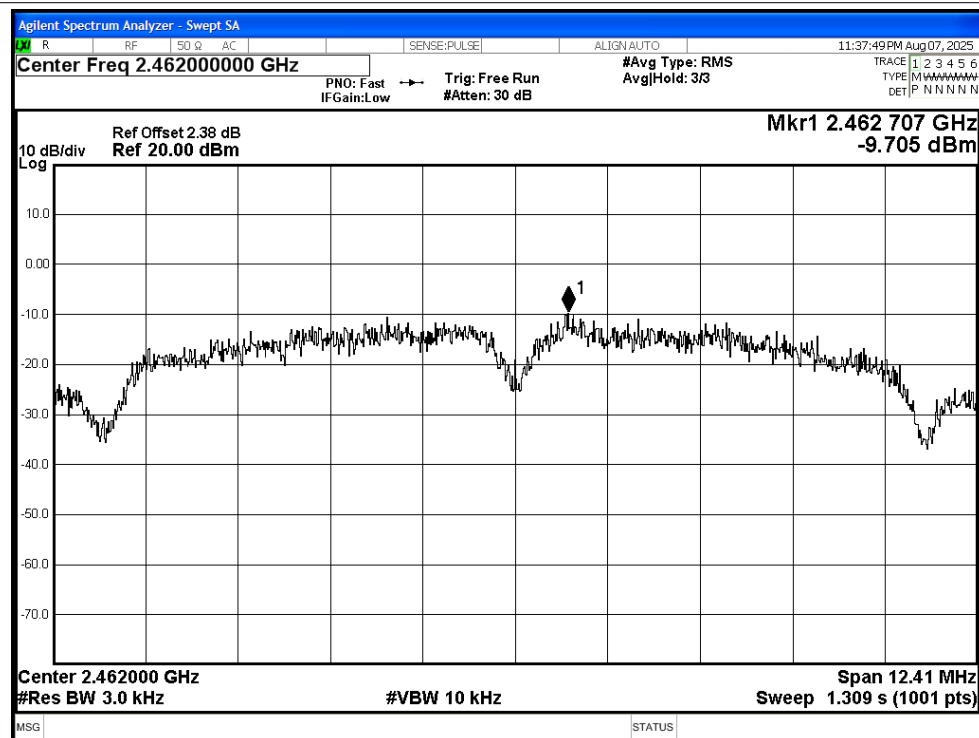
PSD NVNT b 2412MHz Ant1



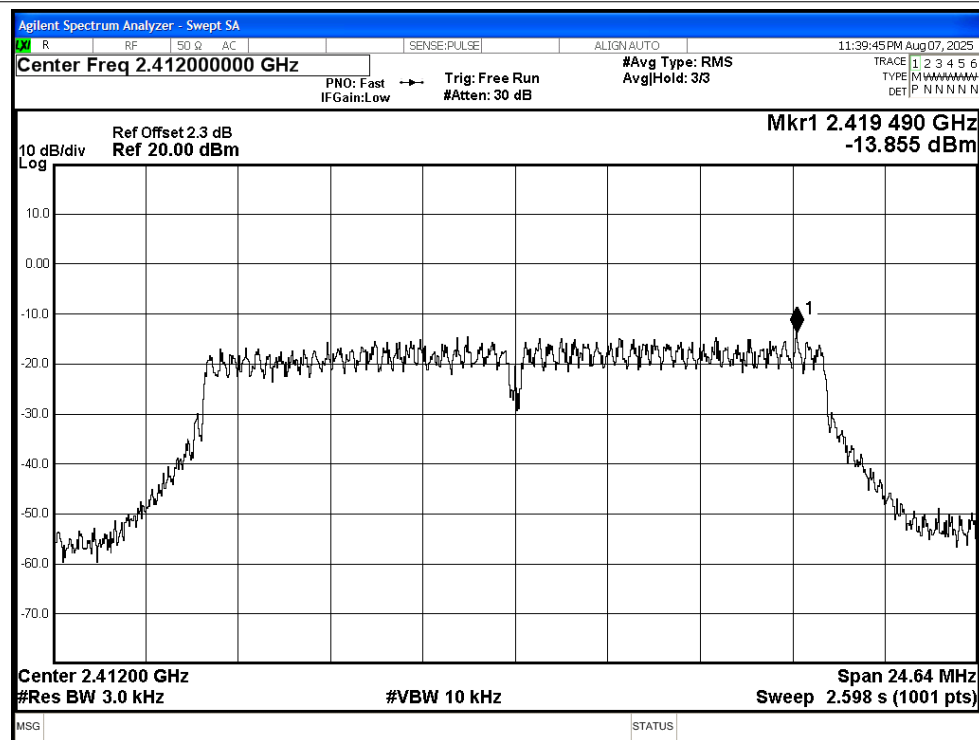
PSD NVNT b 2437MHz Ant1



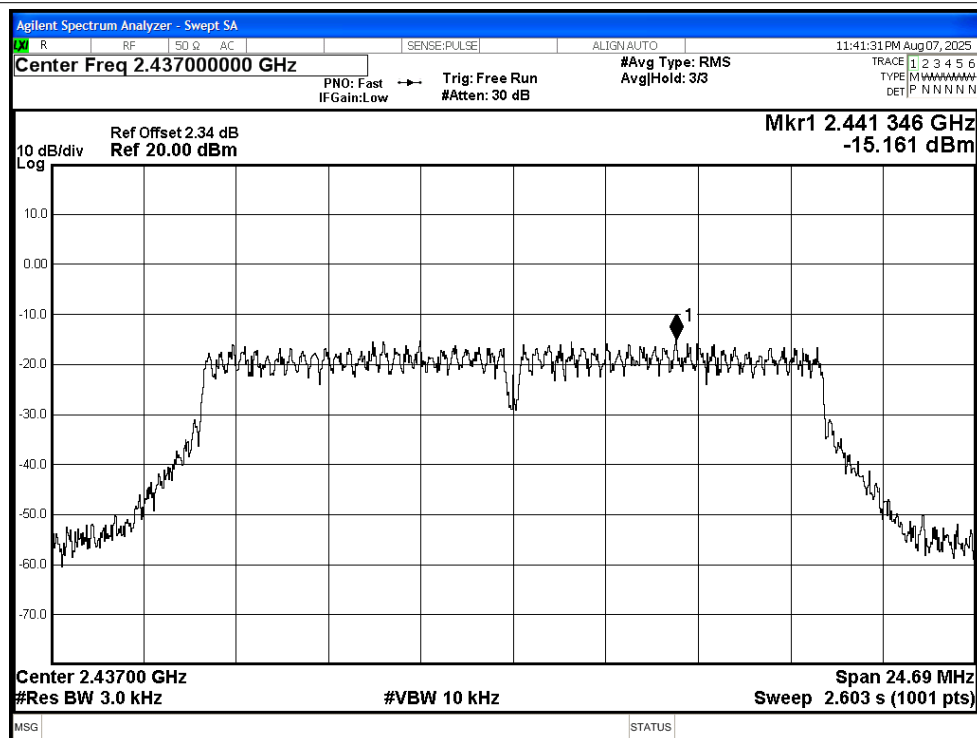
PSD NVNT b 2462MHz Ant1



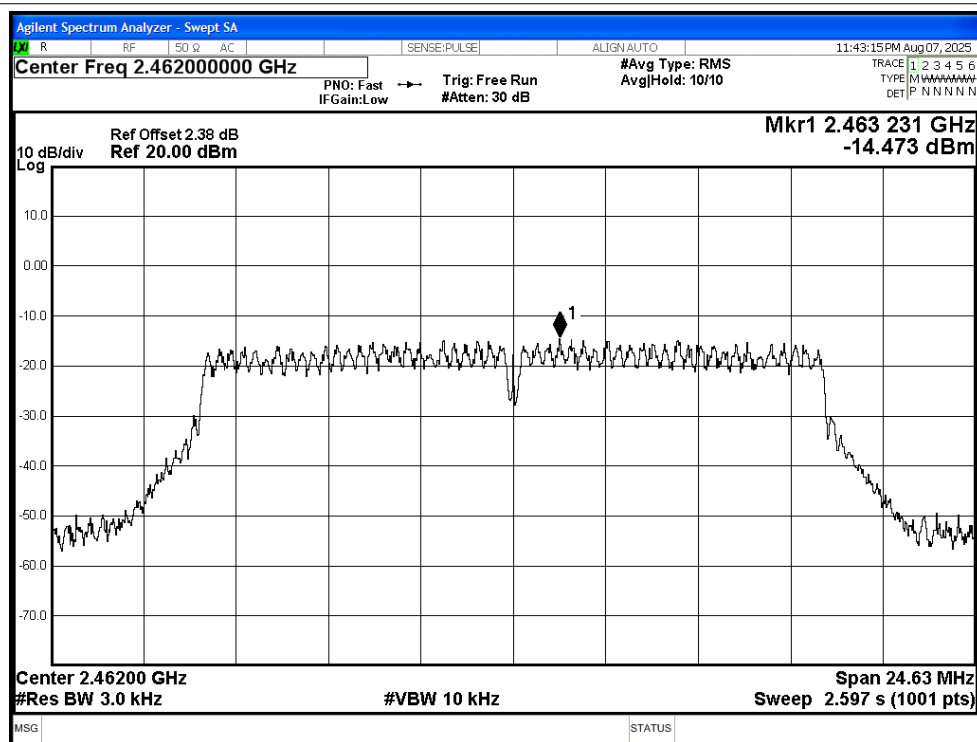
PSD NVNT g 2412MHz Ant1



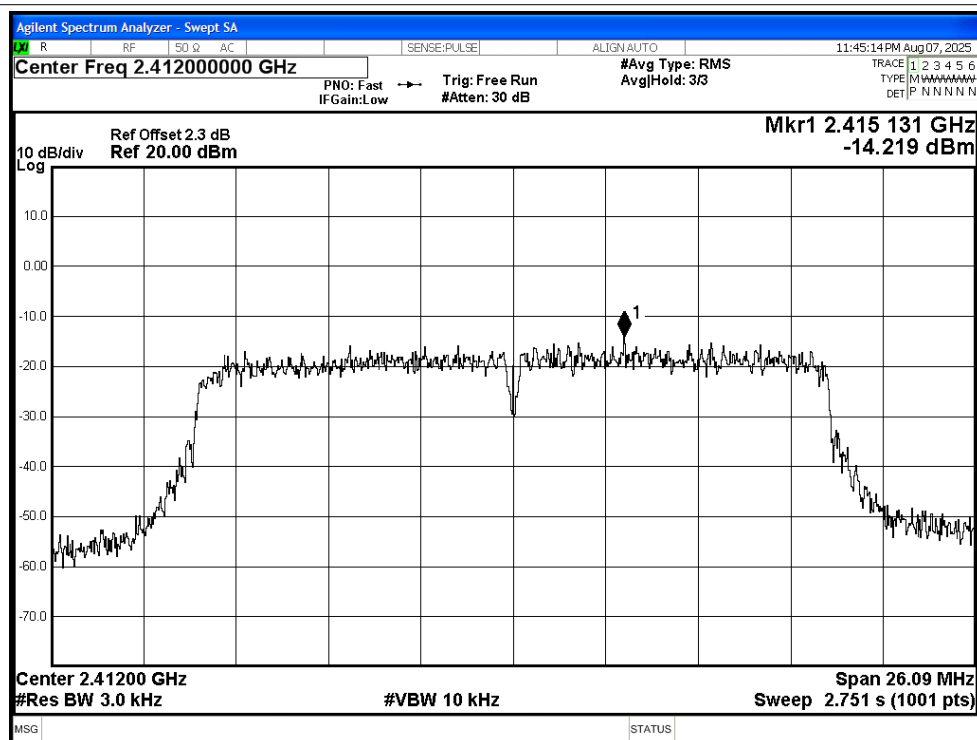
PSD NVNT g 2437MHz Ant1



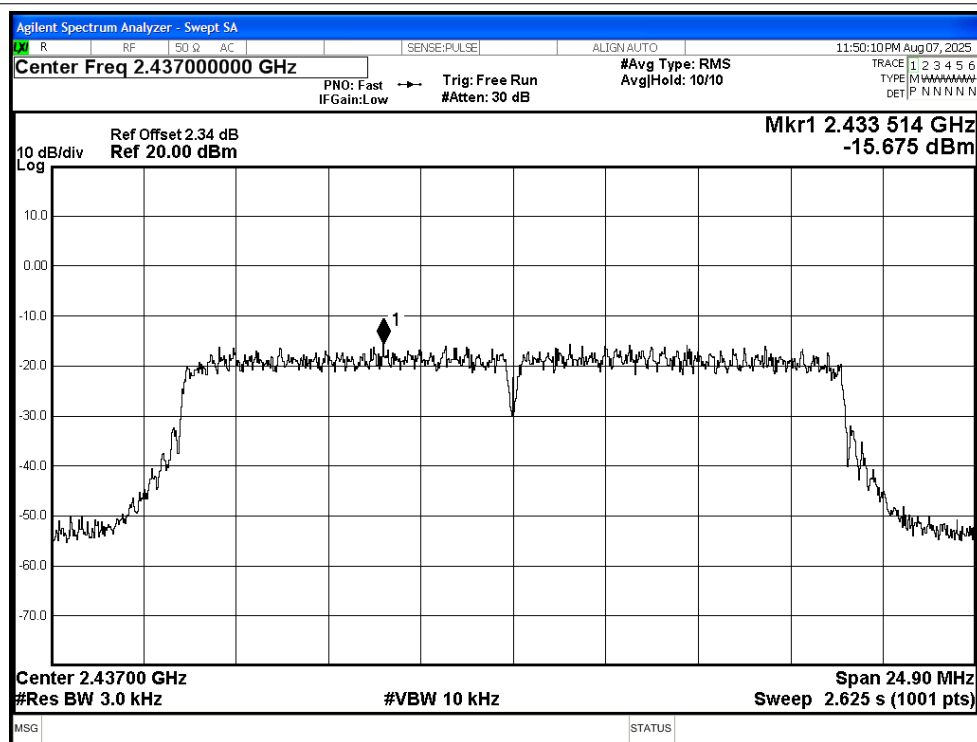
PSD NVNT g 2462MHz Ant1

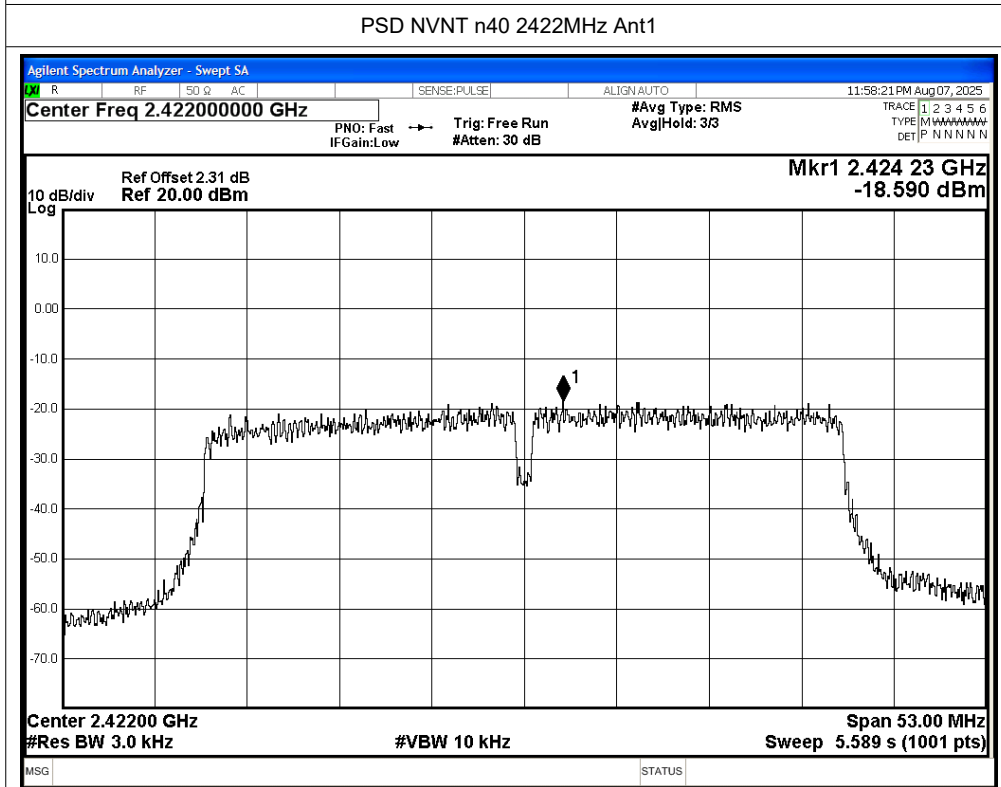
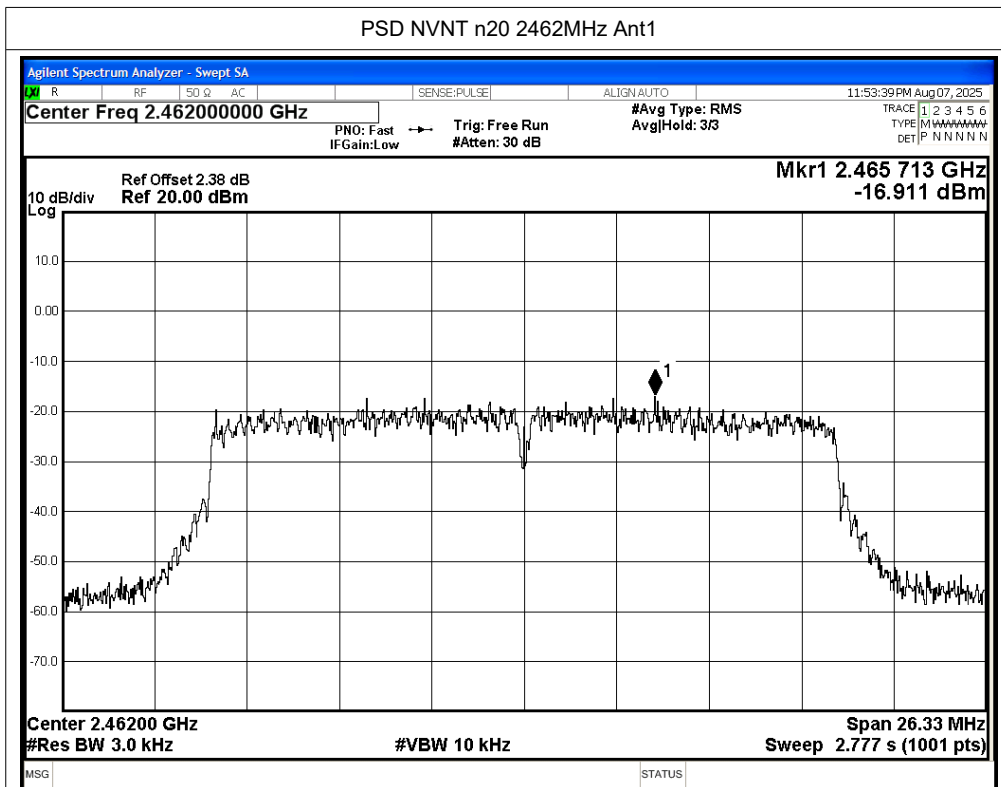


PSD NVNT n20 2412MHz Ant1

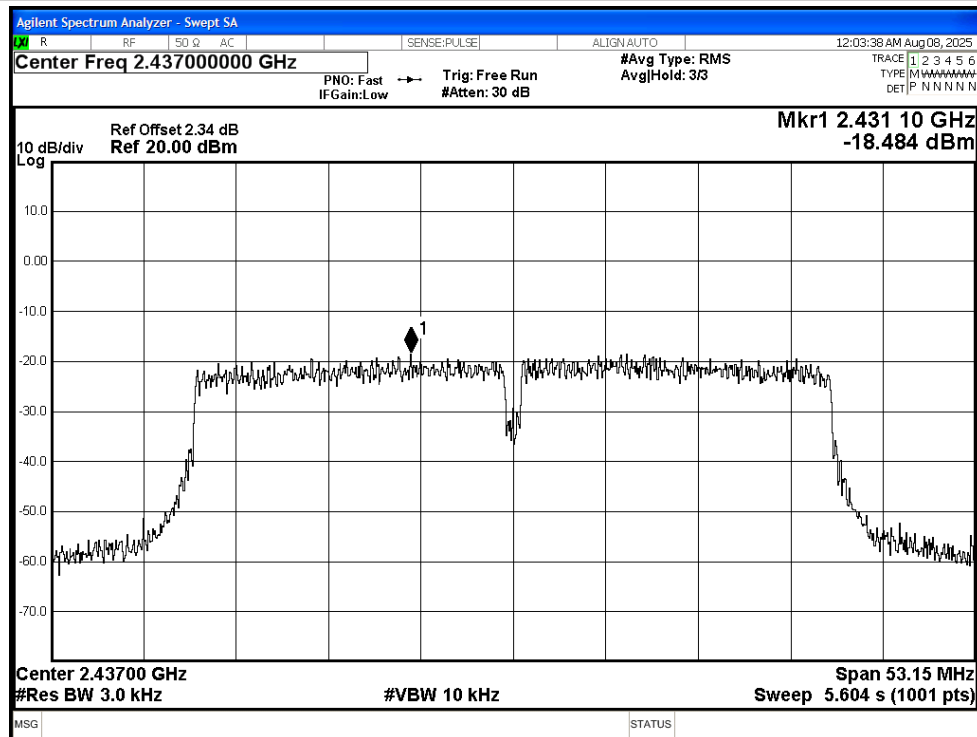


PSD NVNT n20 2437MHz Ant1

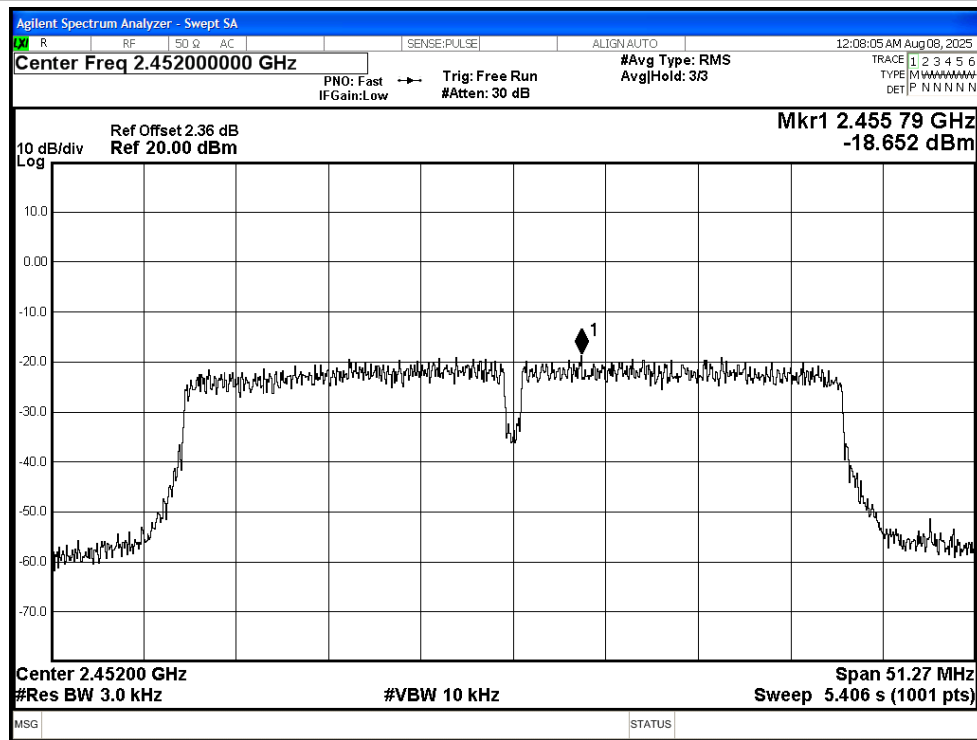




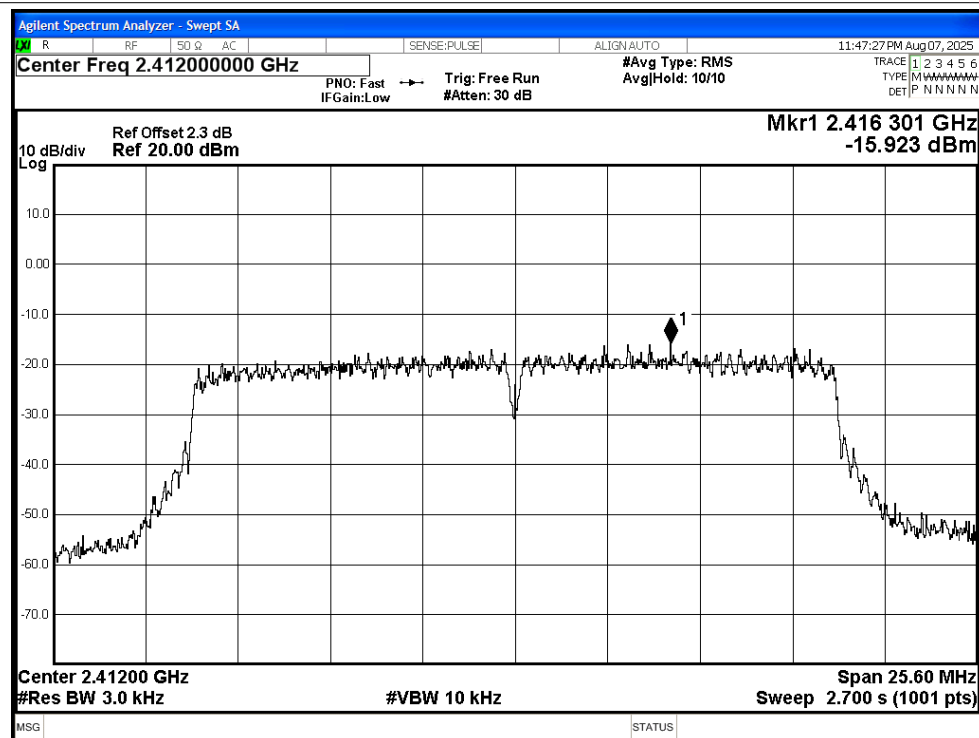
PSD NVNT n40 2437MHz Ant1



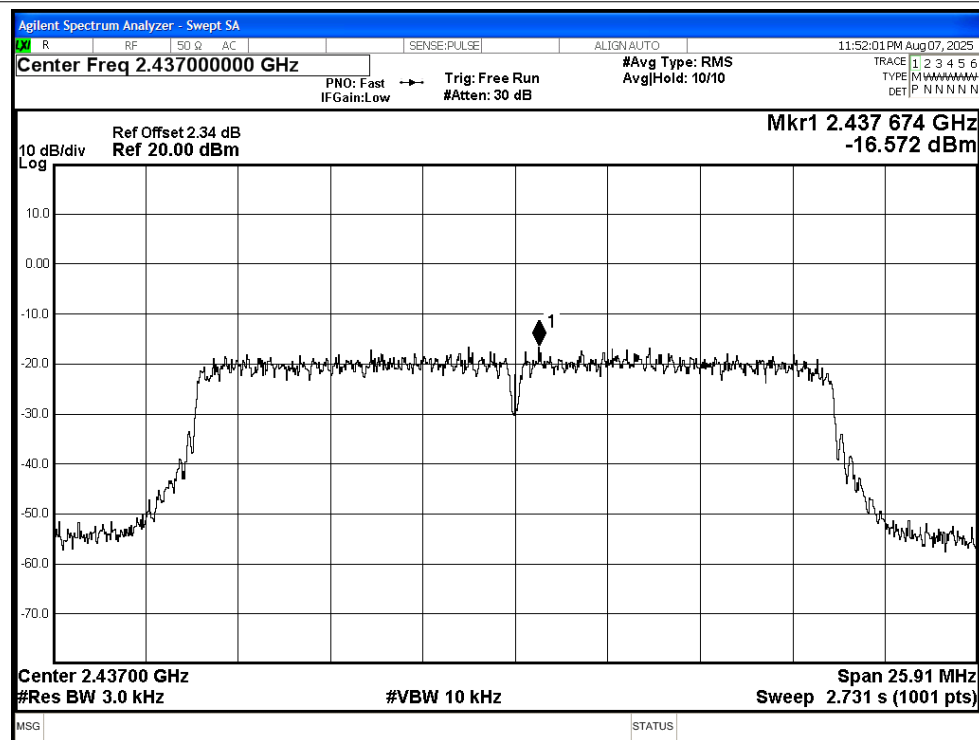
PSD NVNT n40 2452MHz Ant1



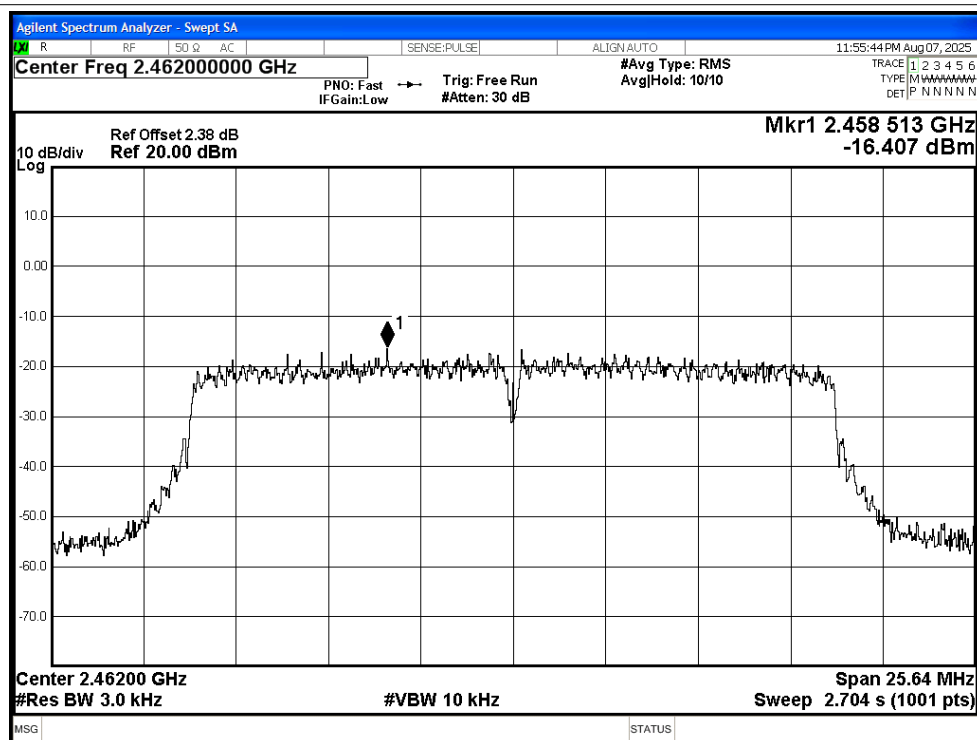
PSD NVNT ax20 2412MHz Ant1



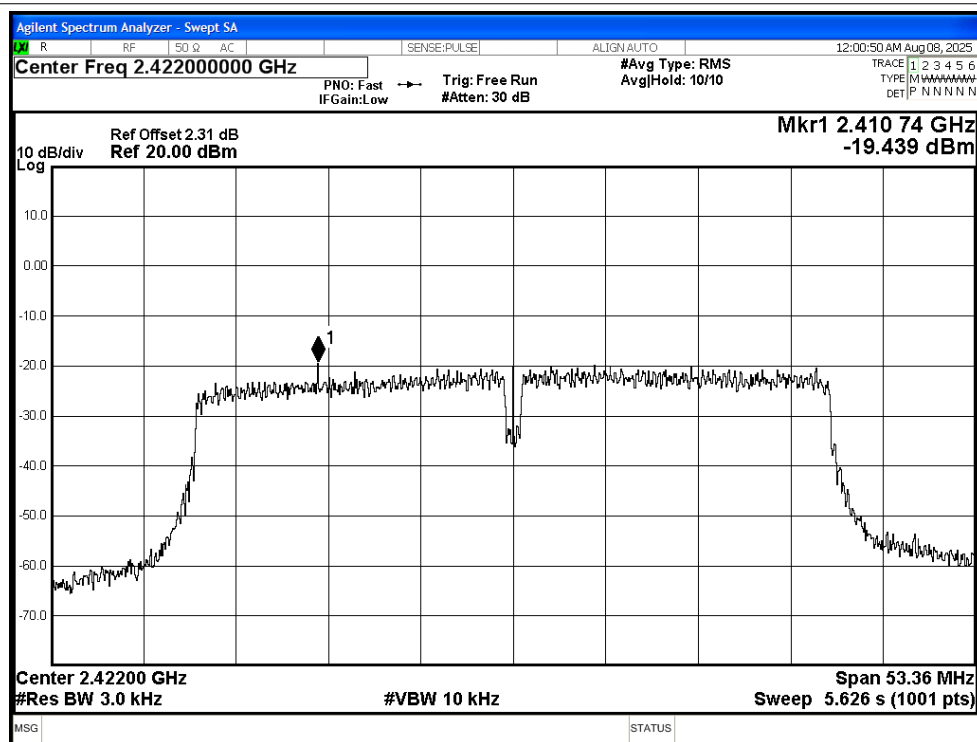
PSD NVNT ax20 2437MHz Ant1



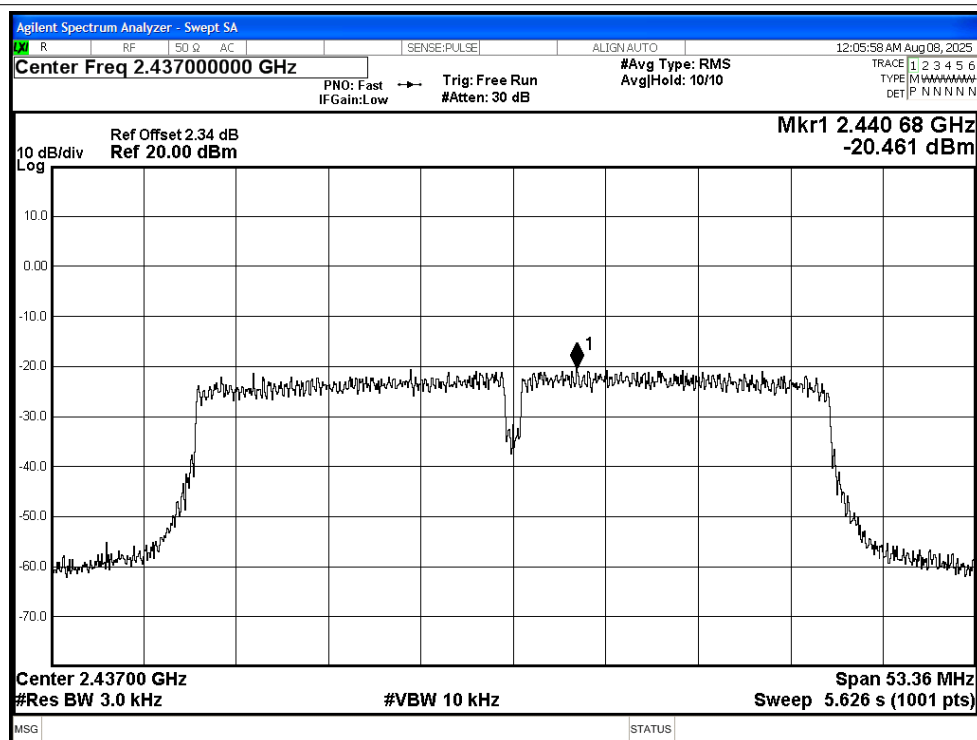
PSD NVNT ax20 2462MHz Ant1



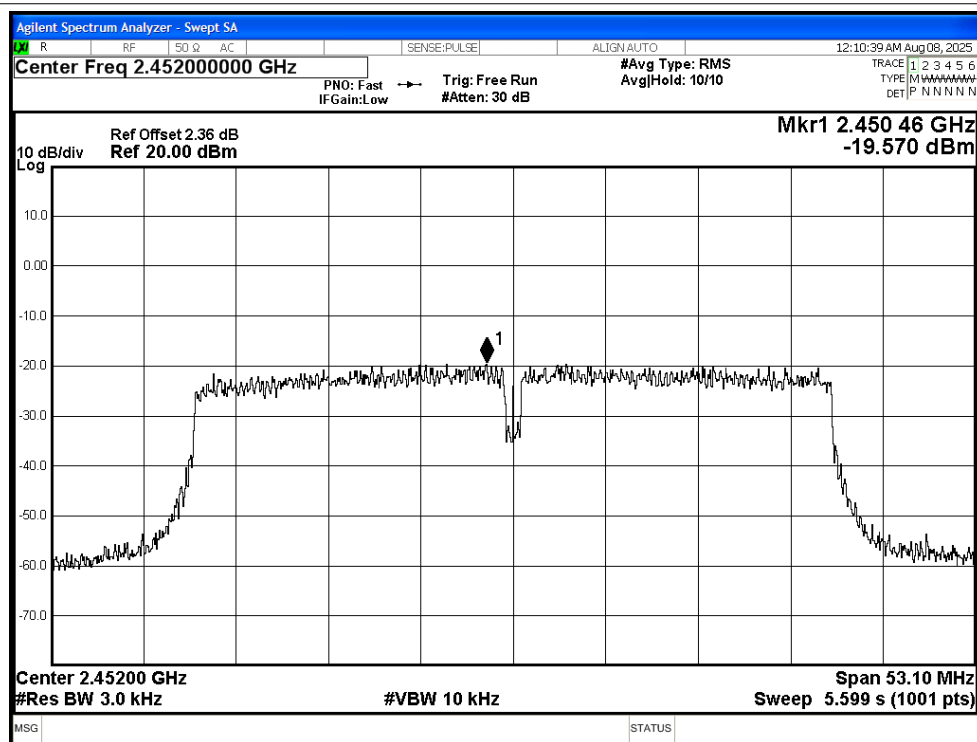
PSD NVNT ax40 2422MHz Ant1



PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1



Band Edge

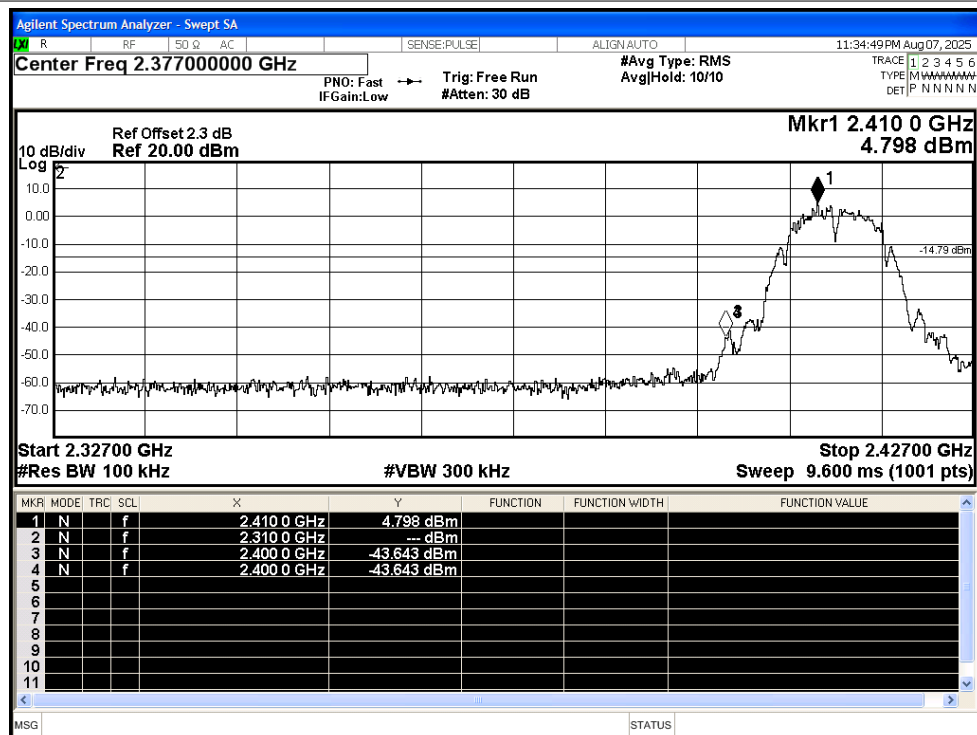
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.86	-20	Pass
NVNT	b	2462	Ant1	-59.76	-20	Pass
NVNT	g	2412	Ant1	-36.18	-20	Pass
NVNT	g	2462	Ant1	-45.6	-20	Pass
NVNT	n20	2412	Ant1	-33.7	-20	Pass
NVNT	n20	2462	Ant1	-42.97	-20	Pass
NVNT	n40	2422	Ant1	-36.27	-20	Pass
NVNT	n40	2452	Ant1	-38.91	-20	Pass
NVNT	ax20	2412	Ant1	-33.59	-20	Pass
NVNT	ax20	2462	Ant1	-41.9	-20	Pass
NVNT	ax40	2422	Ant1	-35.45	-20	Pass
NVNT	ax40	2452	Ant1	-36.34	-20	Pass

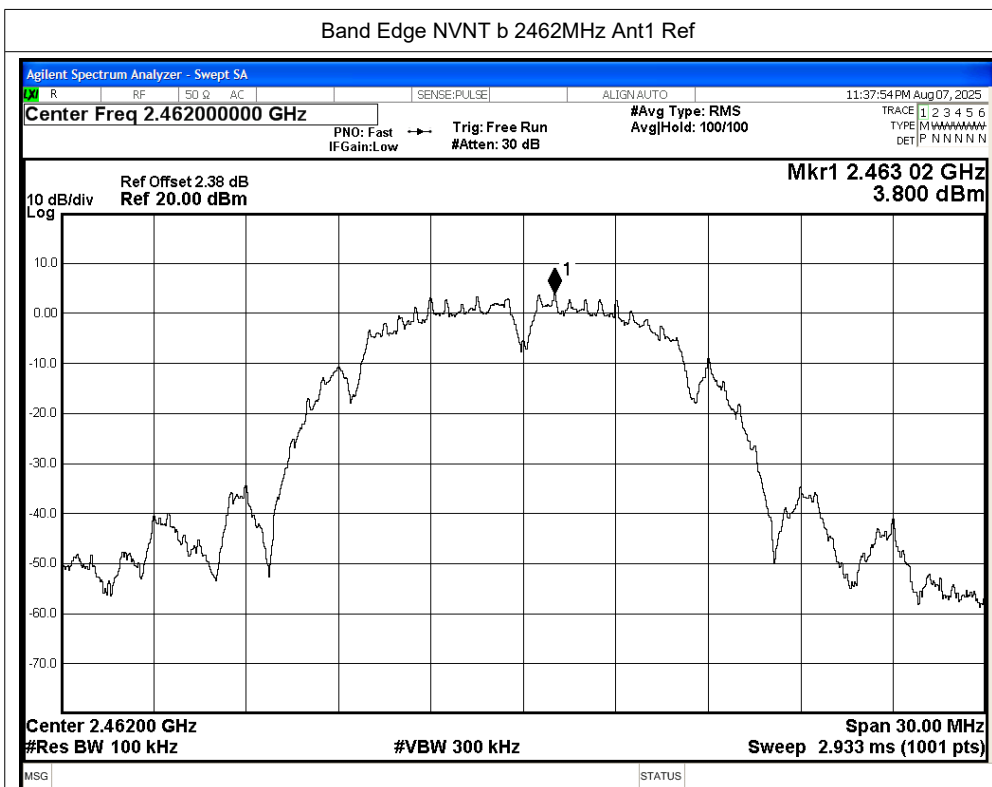
Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

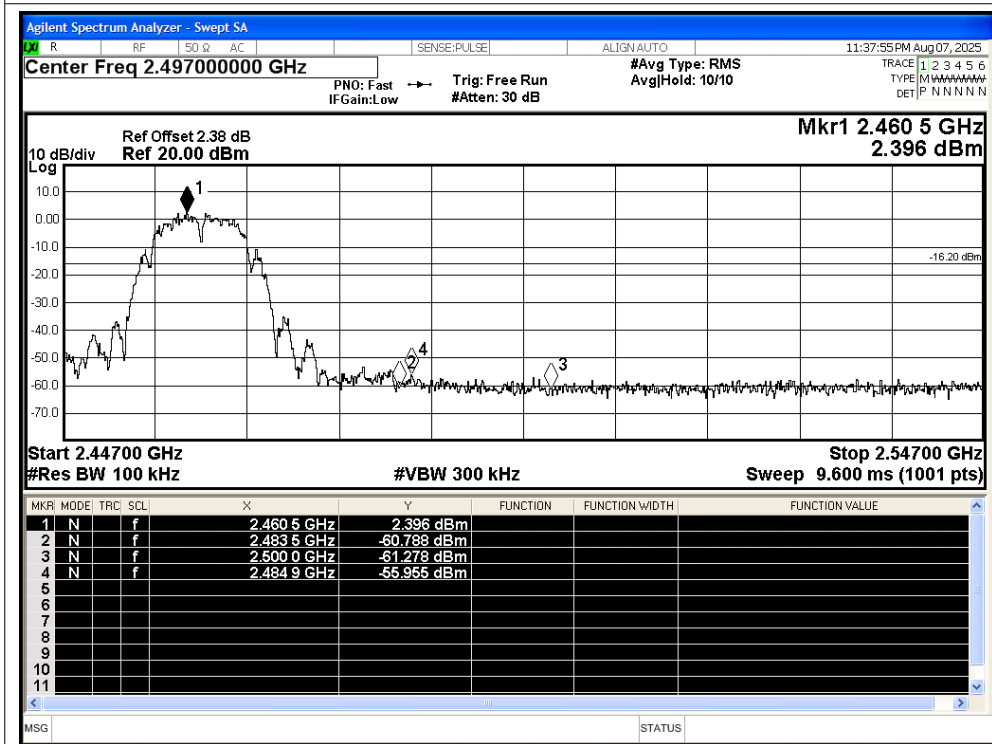


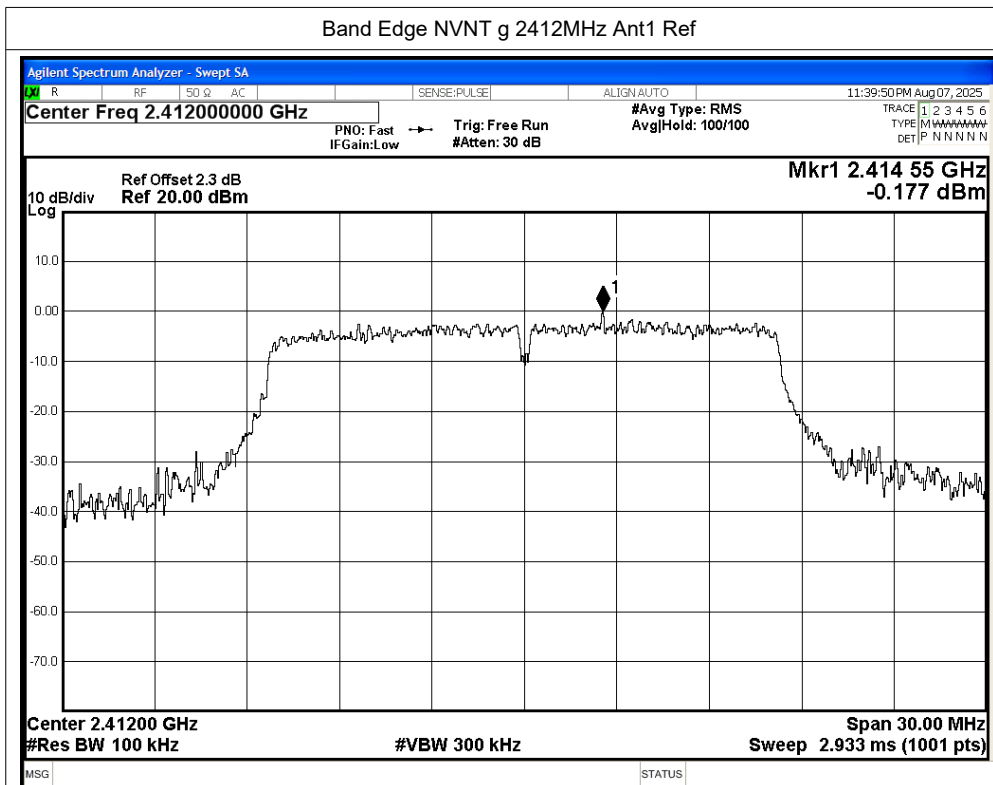
Band Edge NVNT b 2412MHz Ant1 Emission



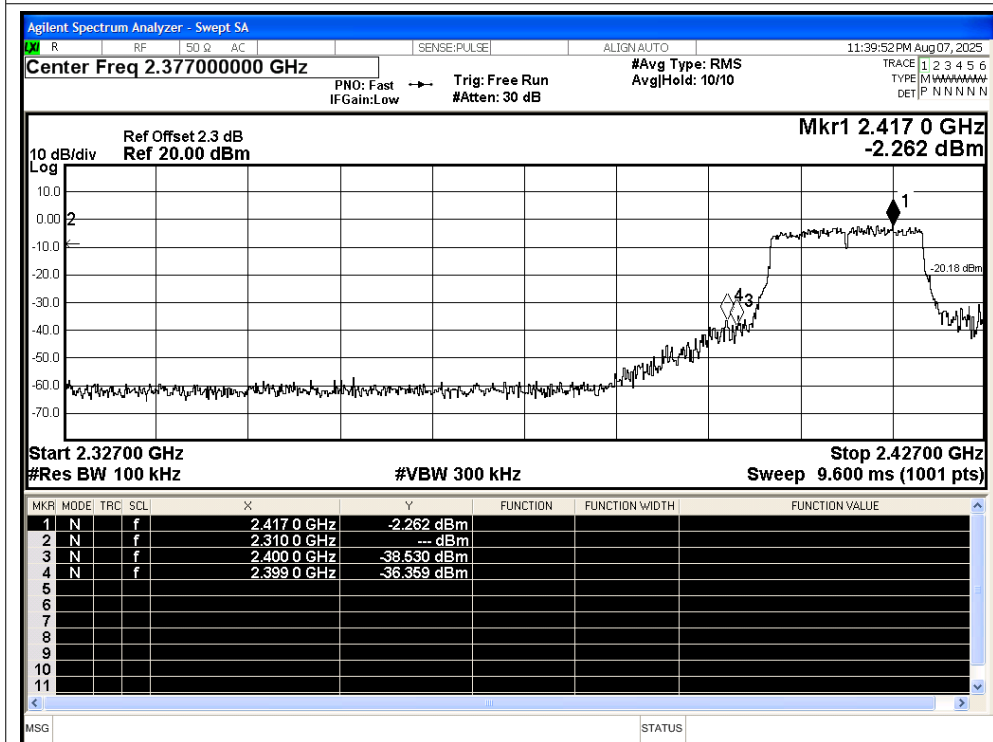


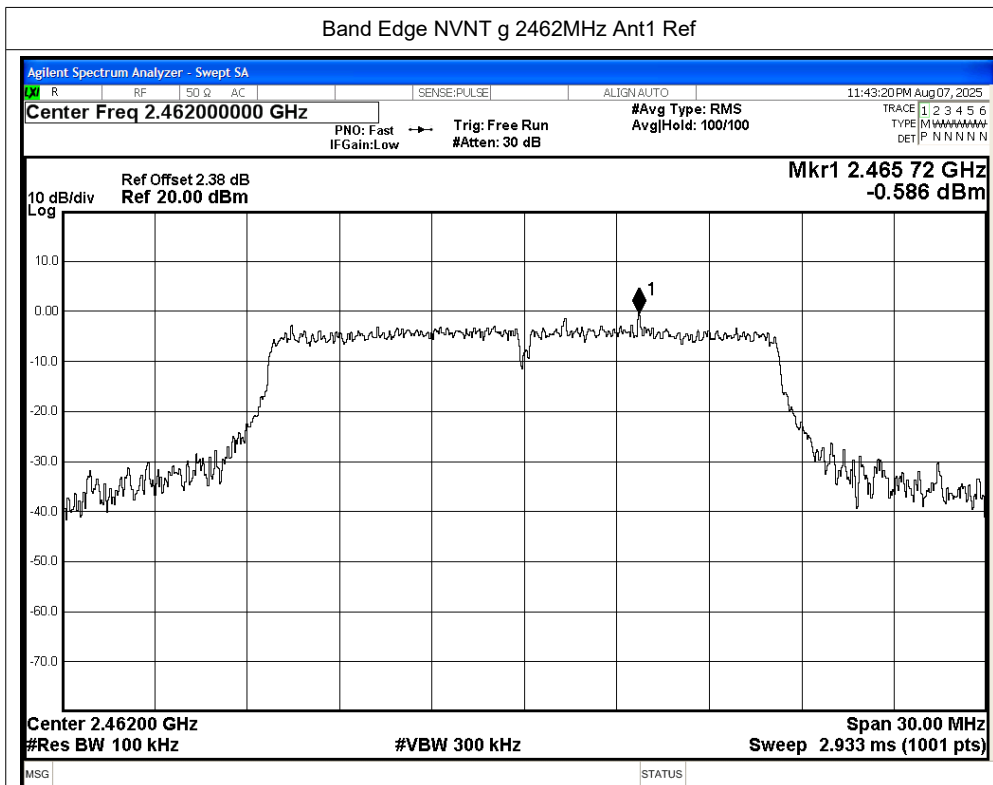
Band Edge NVNT b 2462MHz Ant1 Emission



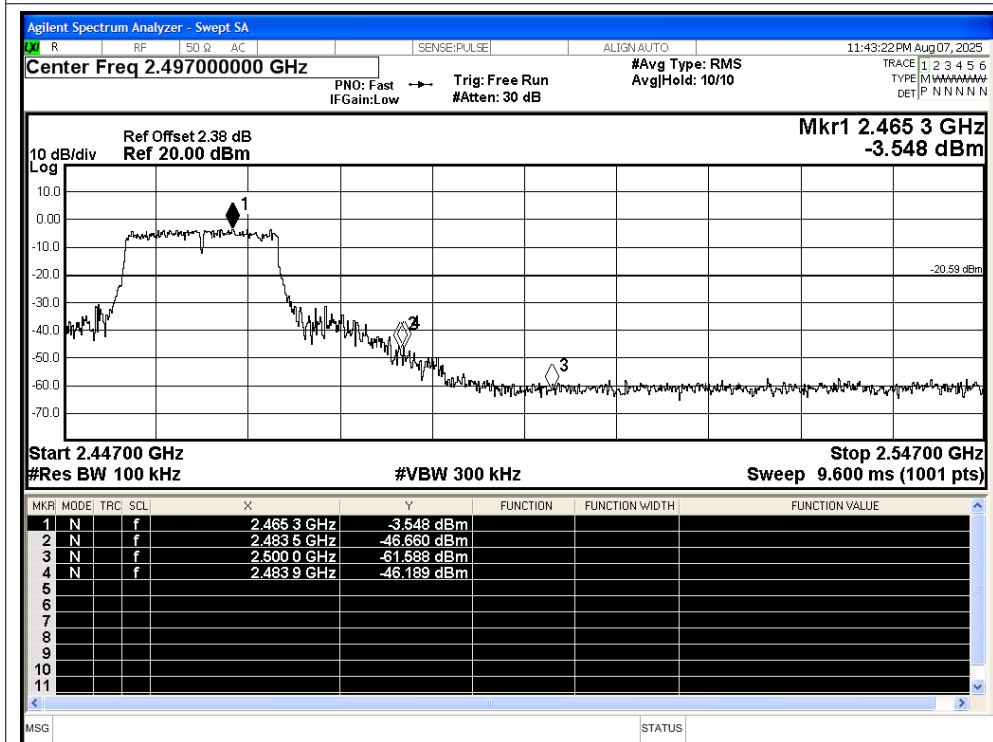


Band Edge NVNT g 2412MHz Ant1 Emission

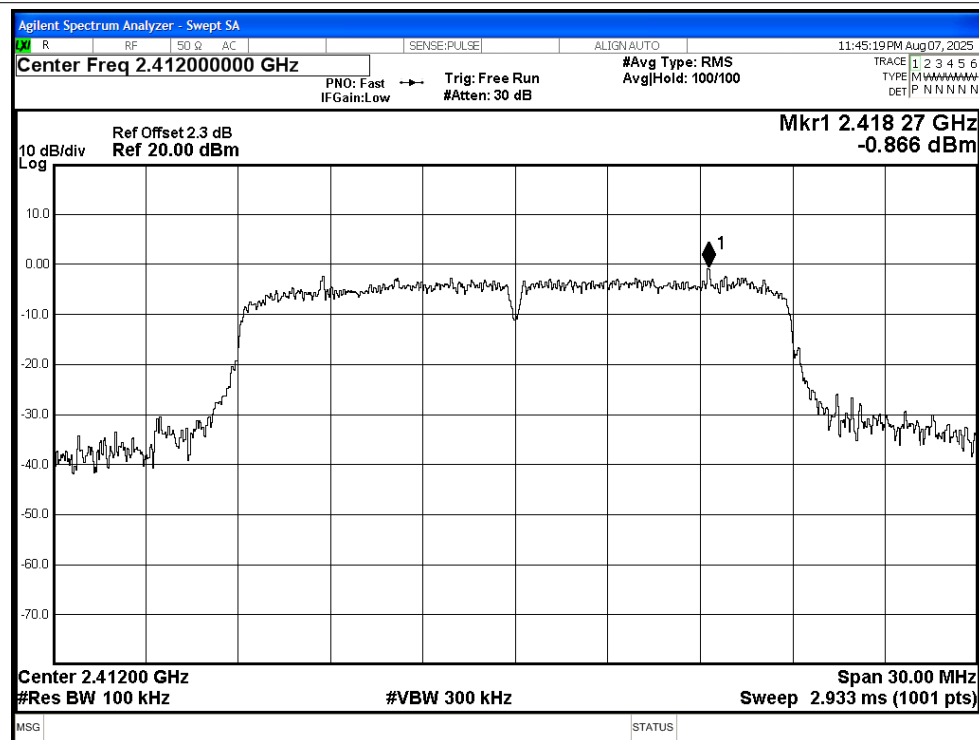




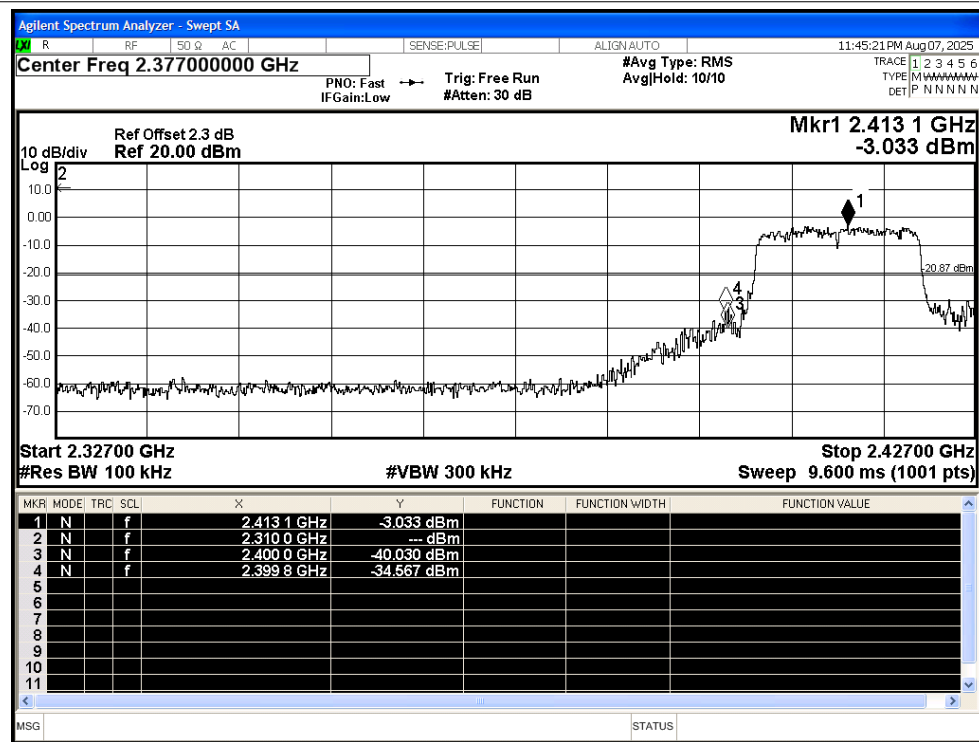
Band Edge NVNT g 2462MHz Ant1 Emission

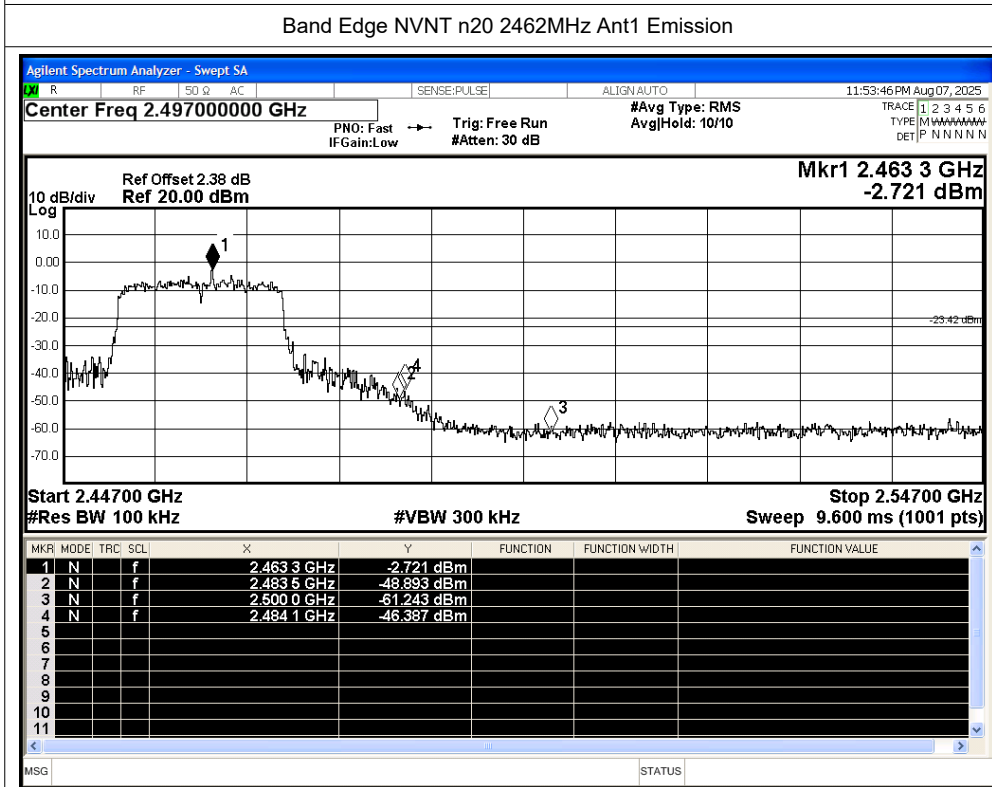
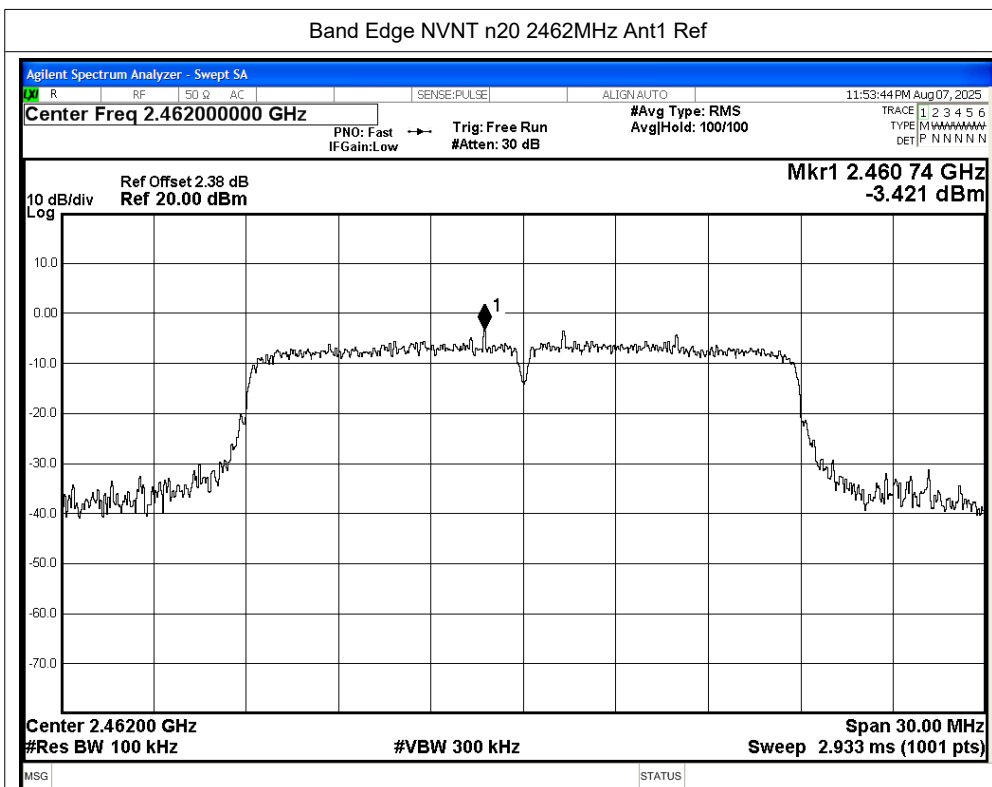


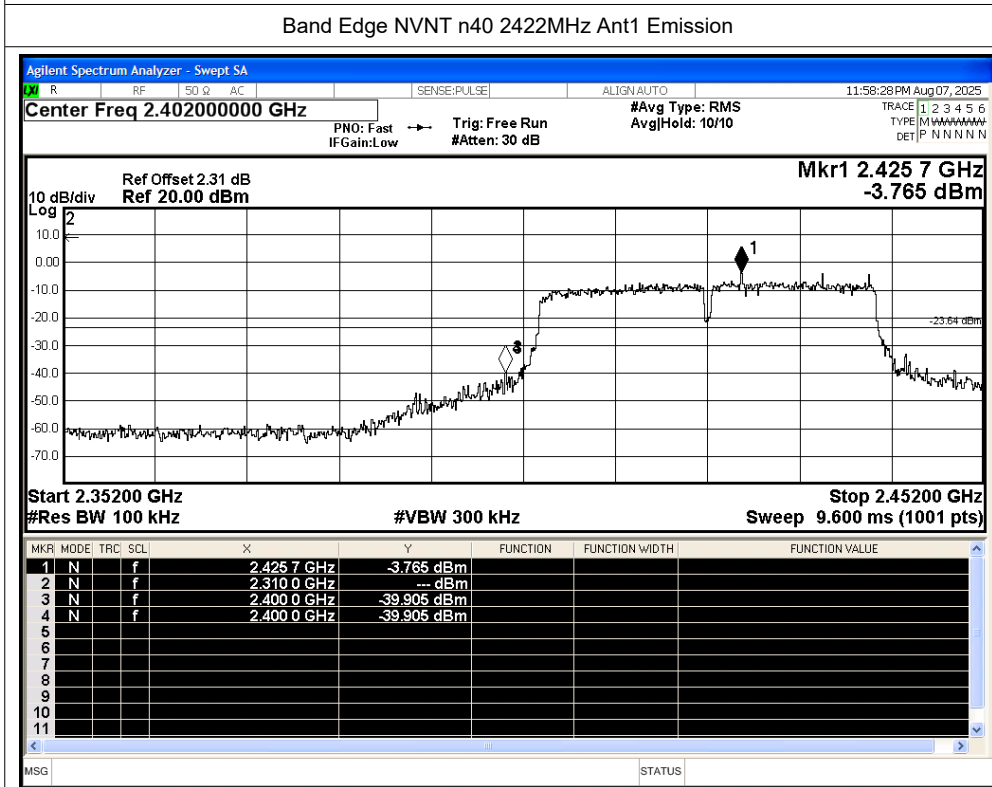
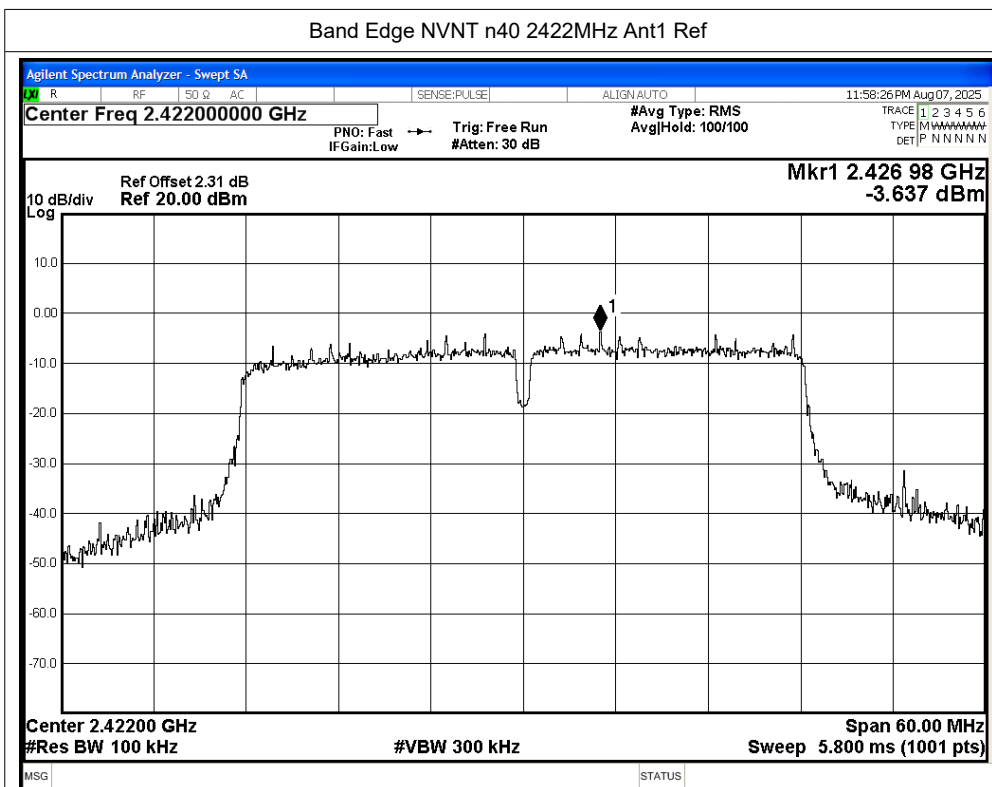
Band Edge NVNT n20 2412MHz Ant1 Ref

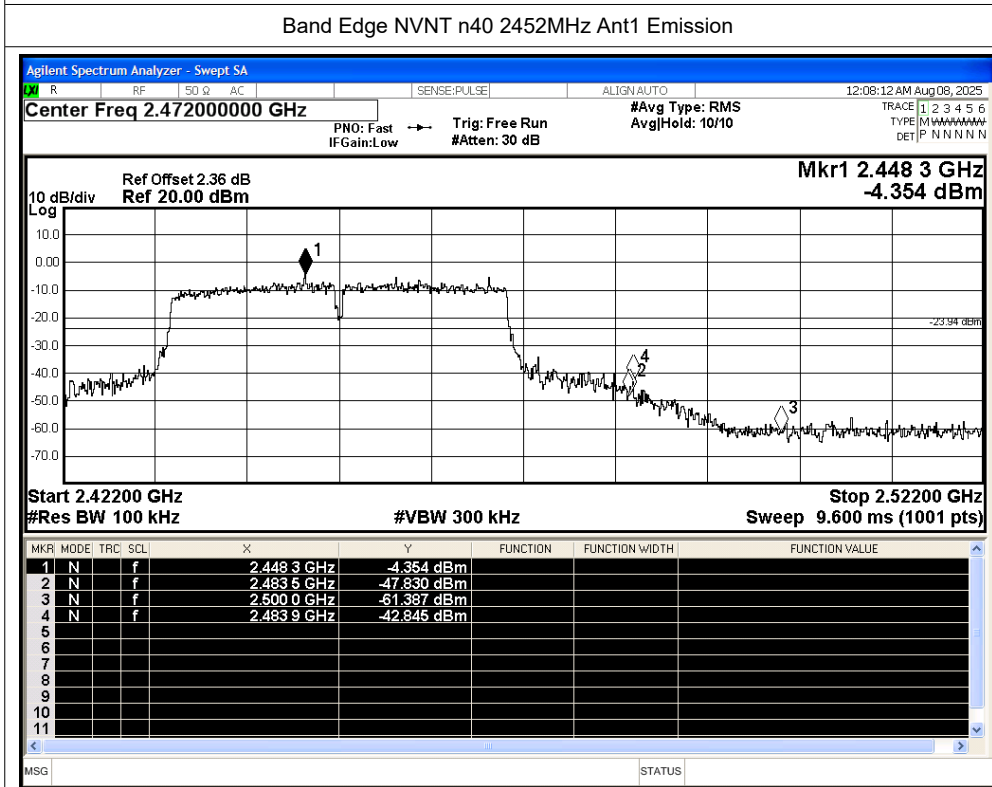
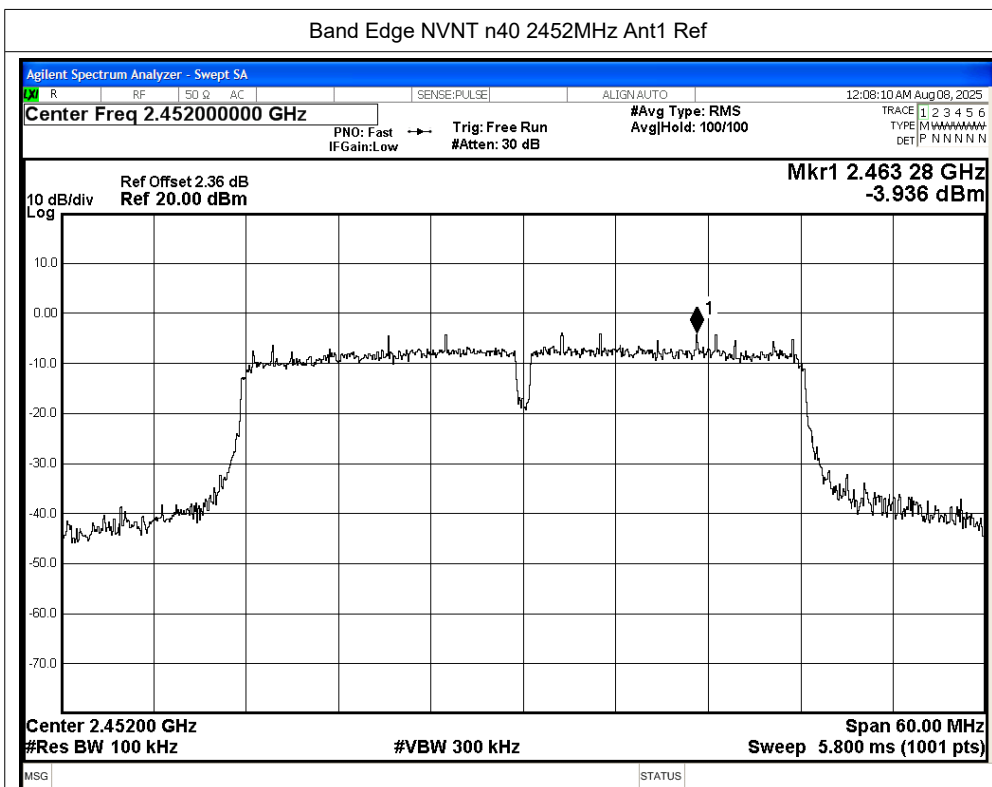


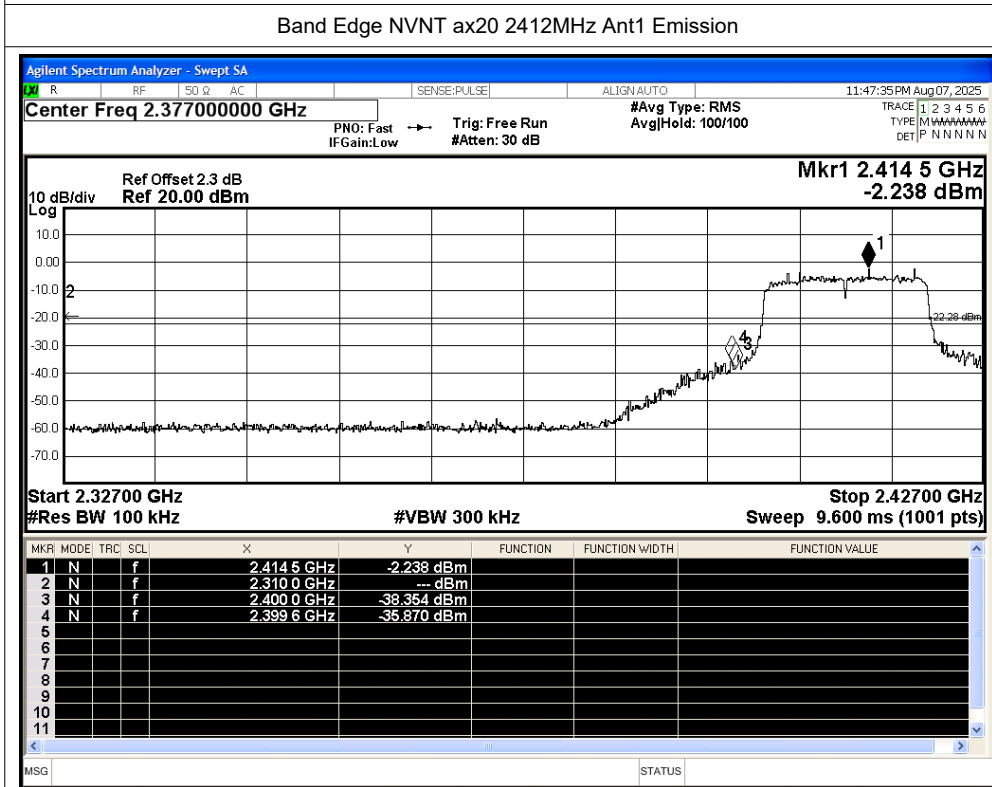
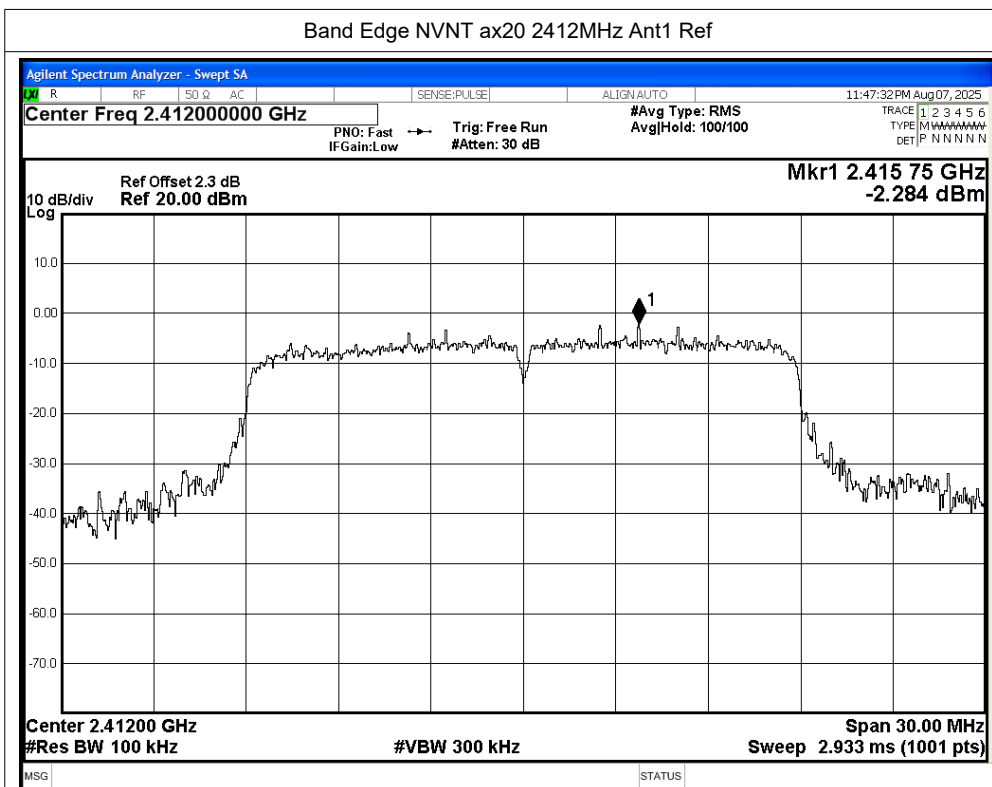
Band Edge NVNT n20 2412MHz Ant1 Emission

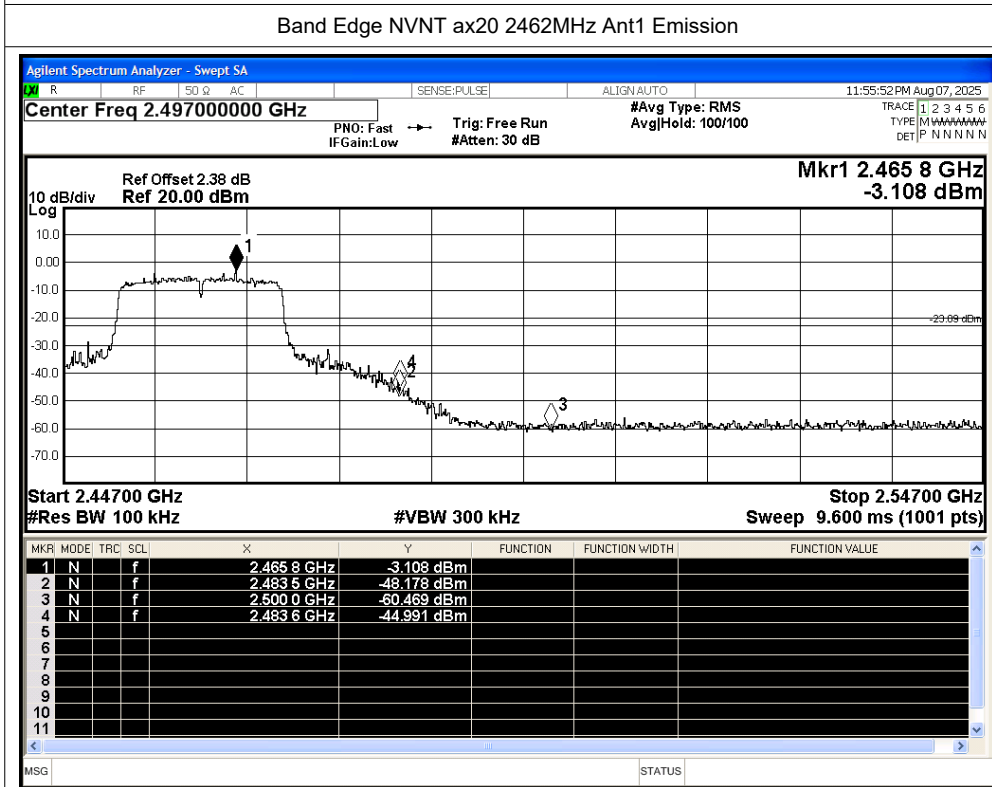
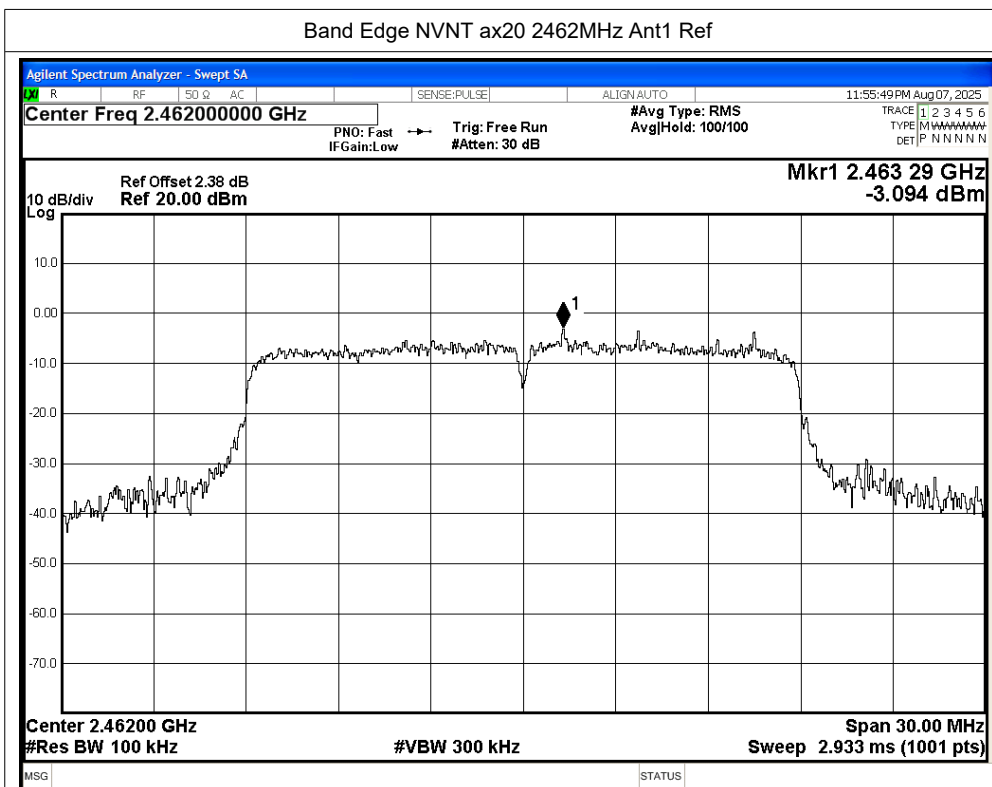


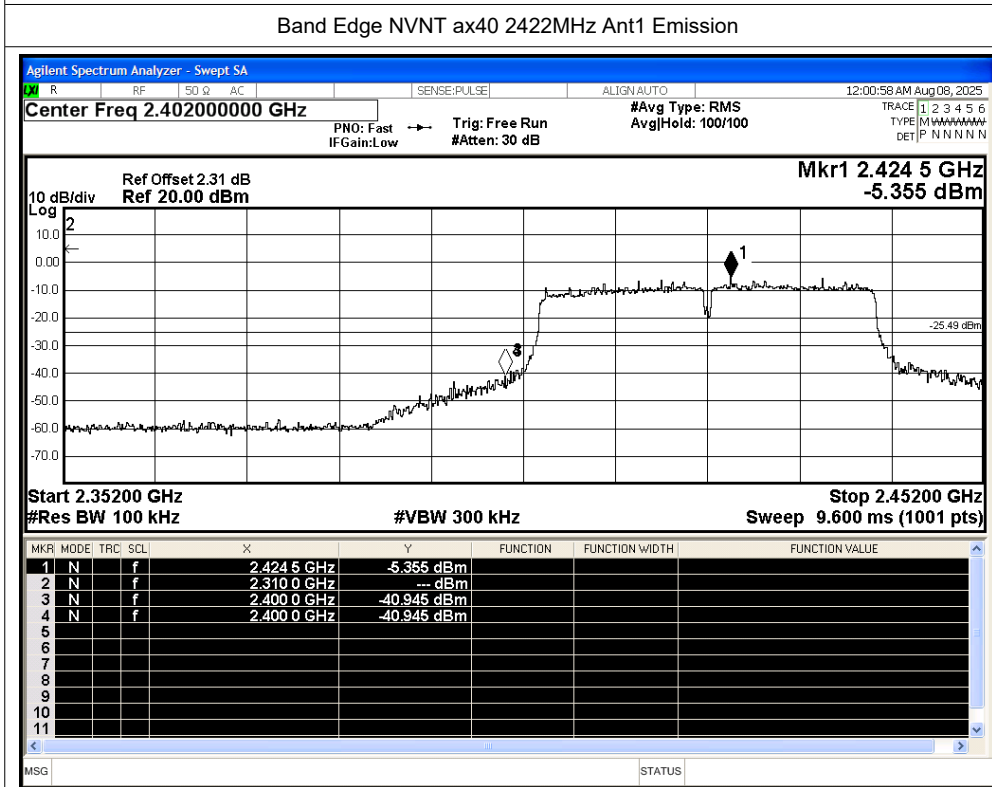
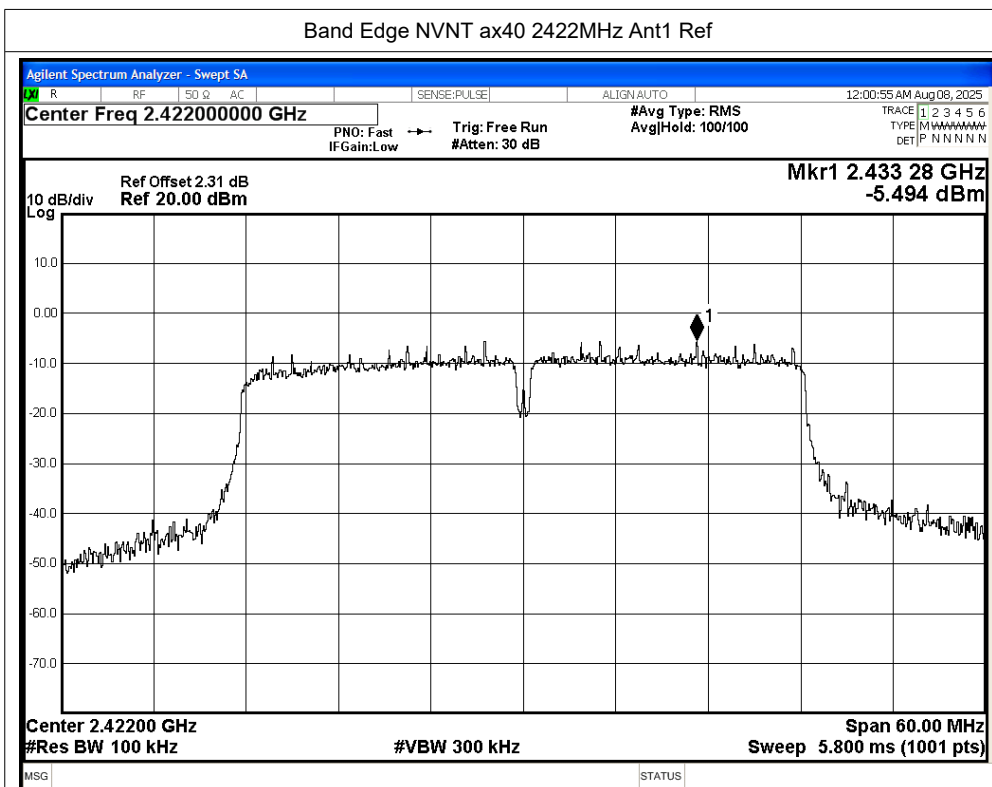


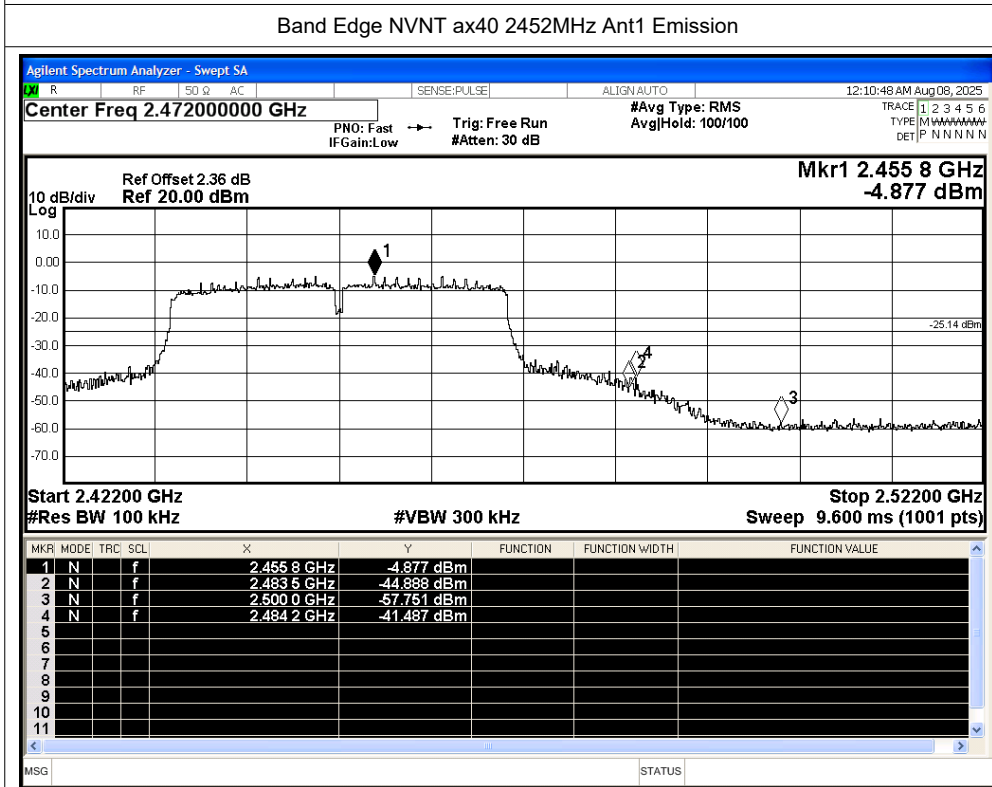
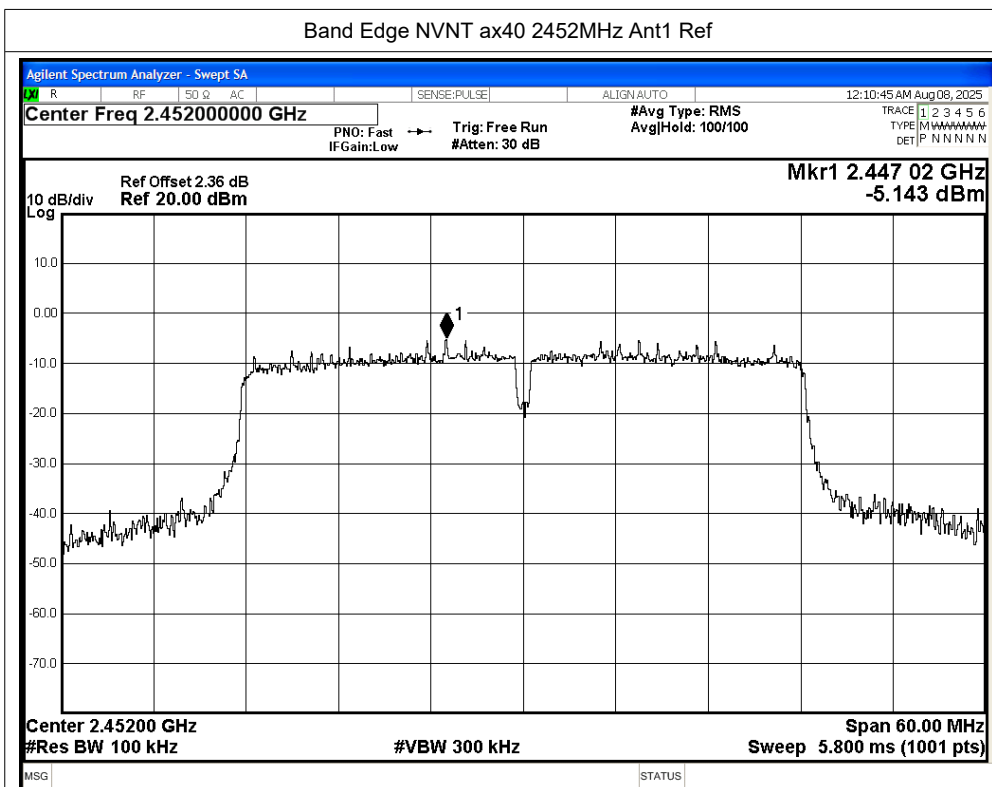












Conducted RF Spurious Emission

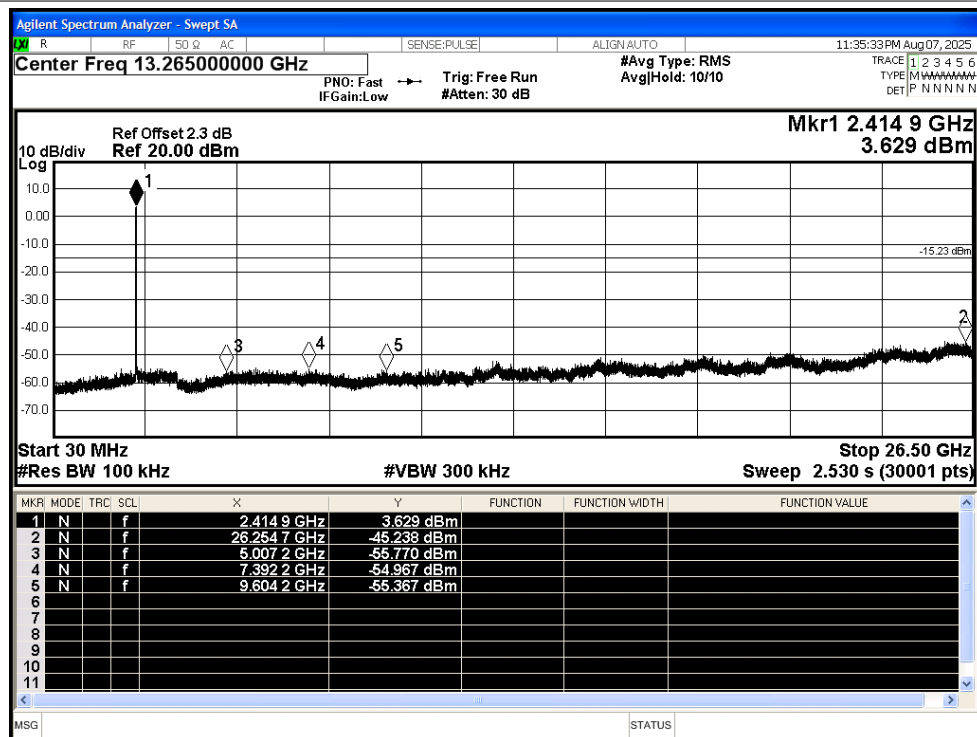
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.01	-20	Pass
NVNT	b	2437	Ant1	-49.19	-20	Pass
NVNT	b	2462	Ant1	-49.03	-20	Pass
NVNT	g	2412	Ant1	-44.1	-20	Pass
NVNT	g	2437	Ant1	-44.36	-20	Pass
NVNT	g	2462	Ant1	-44.69	-20	Pass
NVNT	n20	2412	Ant1	-43.56	-20	Pass
NVNT	n20	2437	Ant1	-43.17	-20	Pass
NVNT	n20	2462	Ant1	-41.64	-20	Pass
NVNT	n40	2422	Ant1	-41.54	-20	Pass
NVNT	n40	2437	Ant1	-41.01	-20	Pass
NVNT	n40	2452	Ant1	-41.06	-20	Pass
NVNT	ax20	2412	Ant1	-42.44	-20	Pass
NVNT	ax20	2437	Ant1	-42.91	-20	Pass
NVNT	ax20	2462	Ant1	-41.14	-20	Pass
NVNT	ax40	2422	Ant1	-39.13	-20	Pass
NVNT	ax40	2437	Ant1	-39.22	-20	Pass
NVNT	ax40	2452	Ant1	-38.65	-20	Pass

Test Graphs

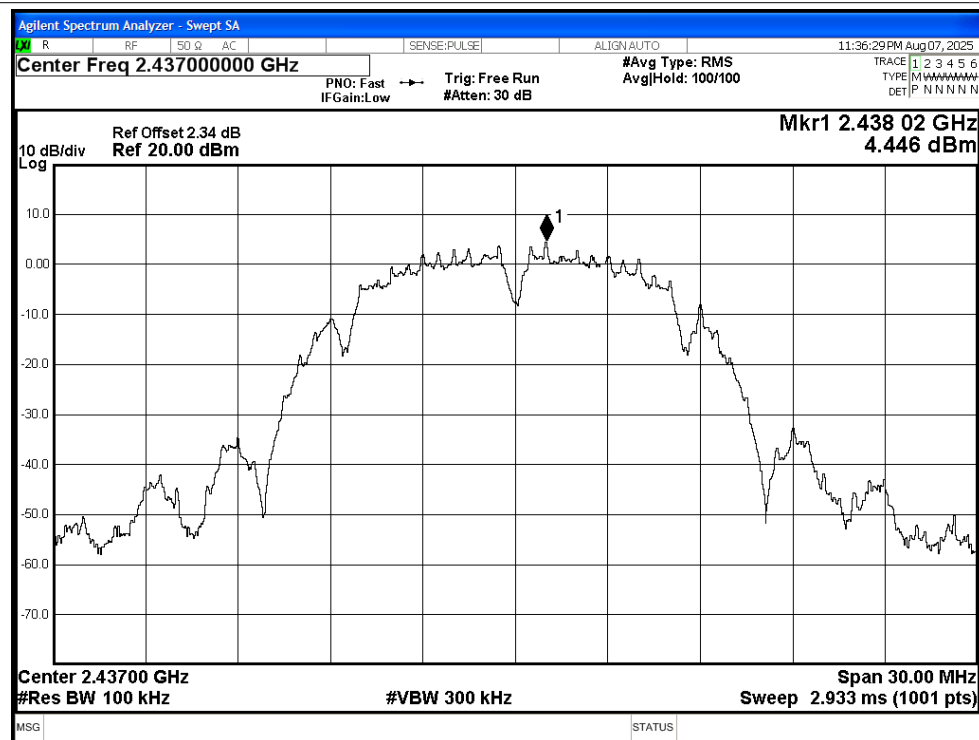
Tx. Spurious NVNT b 2412MHz Ant1 Ref



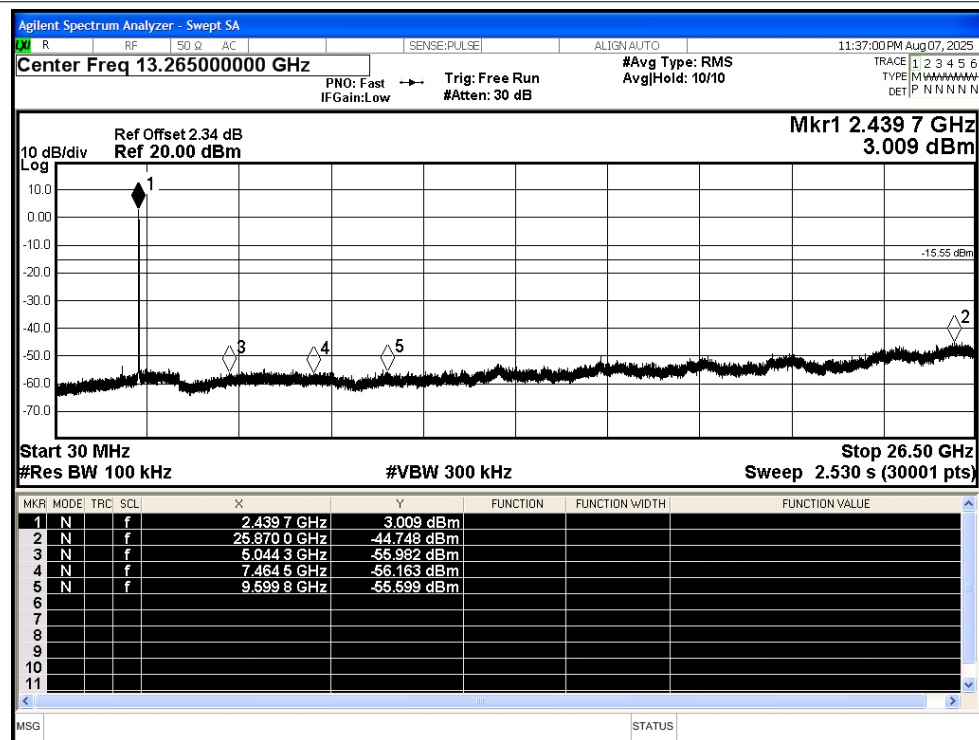
Tx. Spurious NVNT b 2412MHz Ant1 Emission



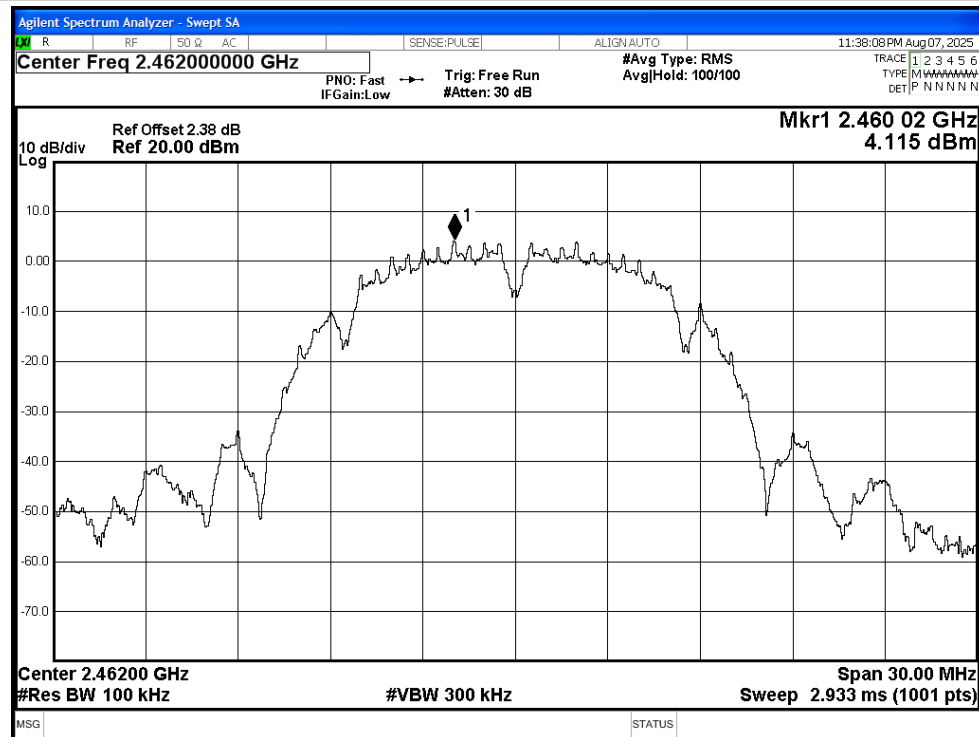
Tx. Spurious NVNT b 2437MHz Ant1 Ref



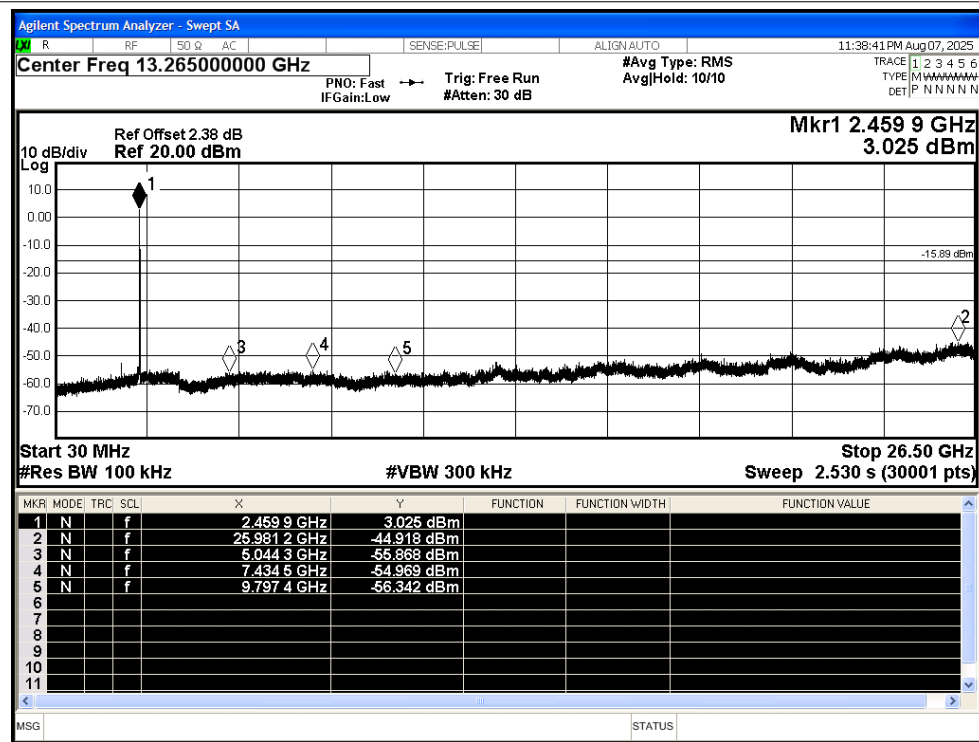
Tx. Spurious NVNT b 2437MHz Ant1 Emission



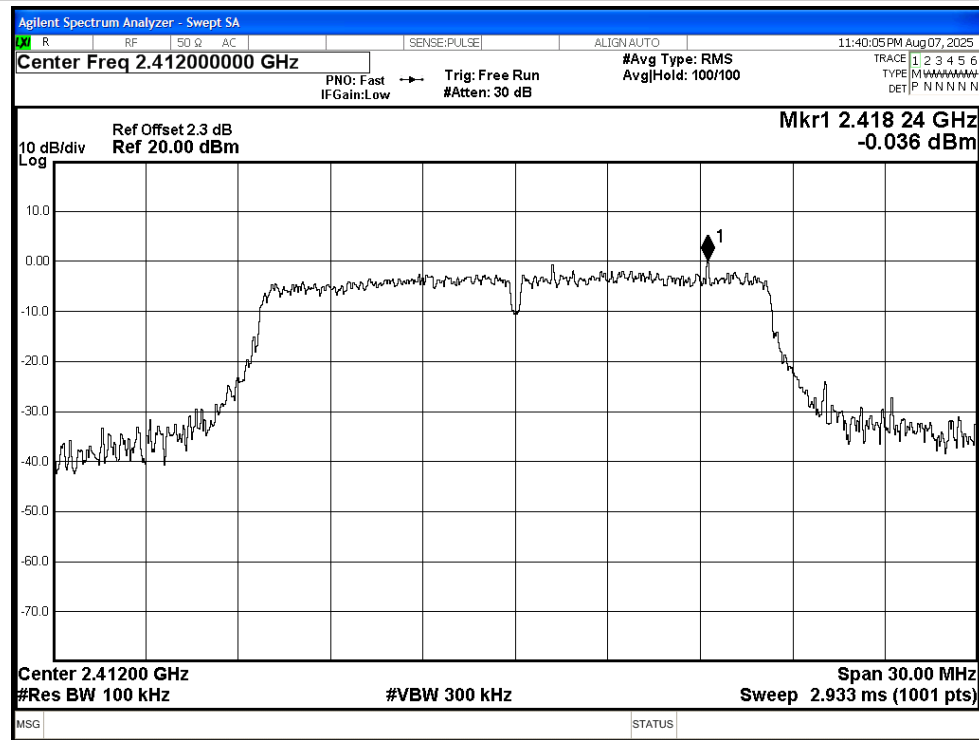
Tx. Spurious NVNT b 2462MHz Ant1 Ref



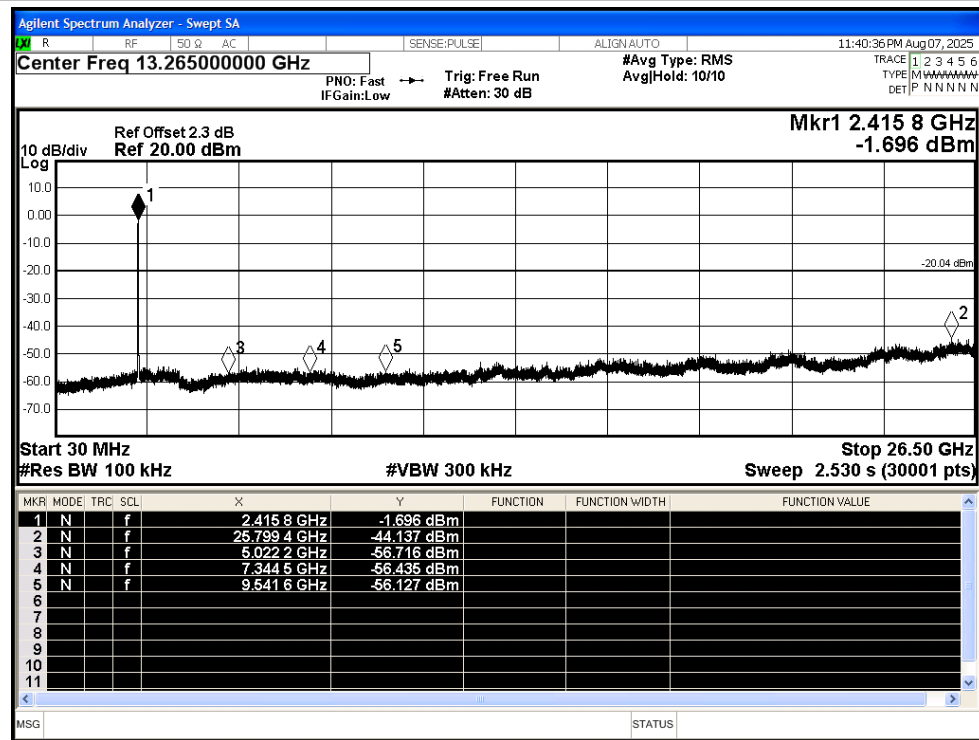
Tx. Spurious NVNT b 2462MHz Ant1 Emission



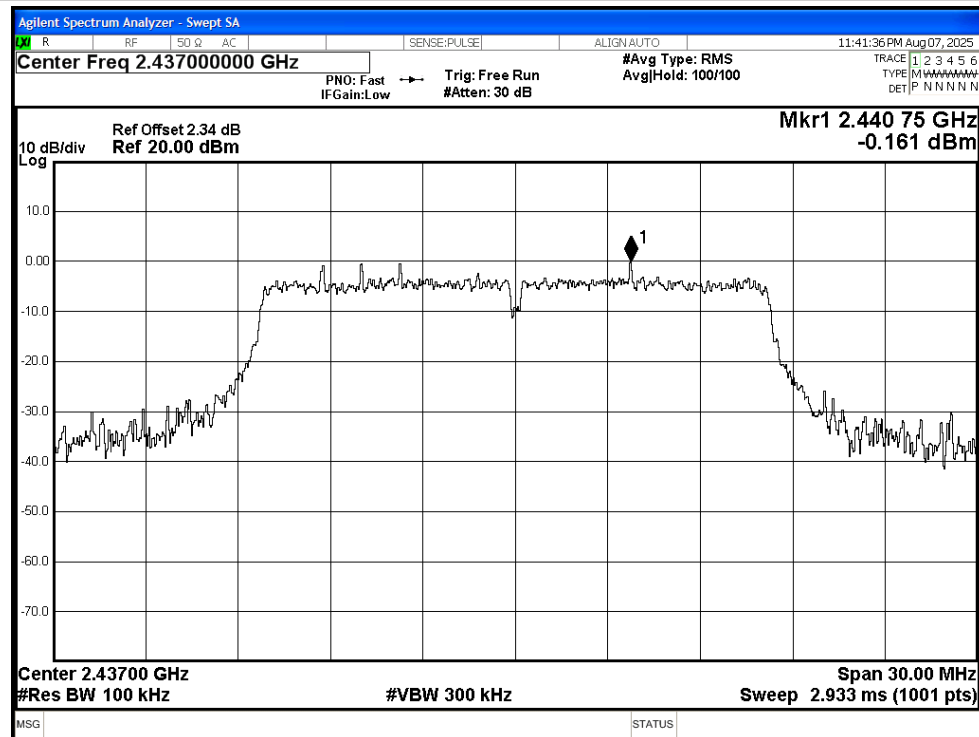
Tx. Spurious NVNT g 2412MHz Ant1 Ref



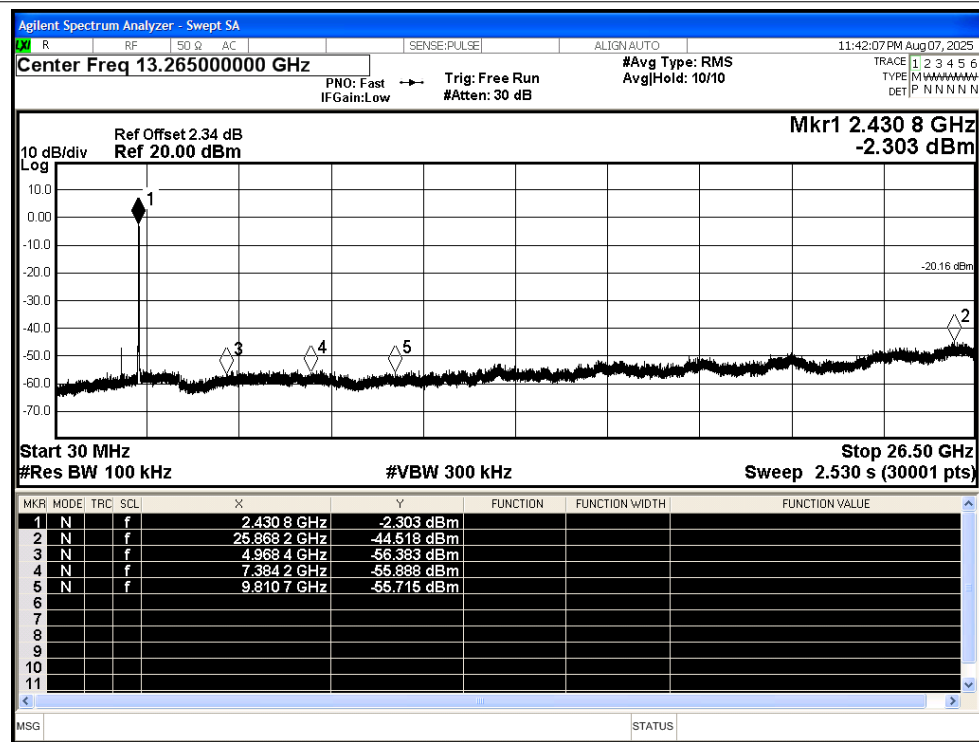
Tx. Spurious NVNT g 2412MHz Ant1 Emission



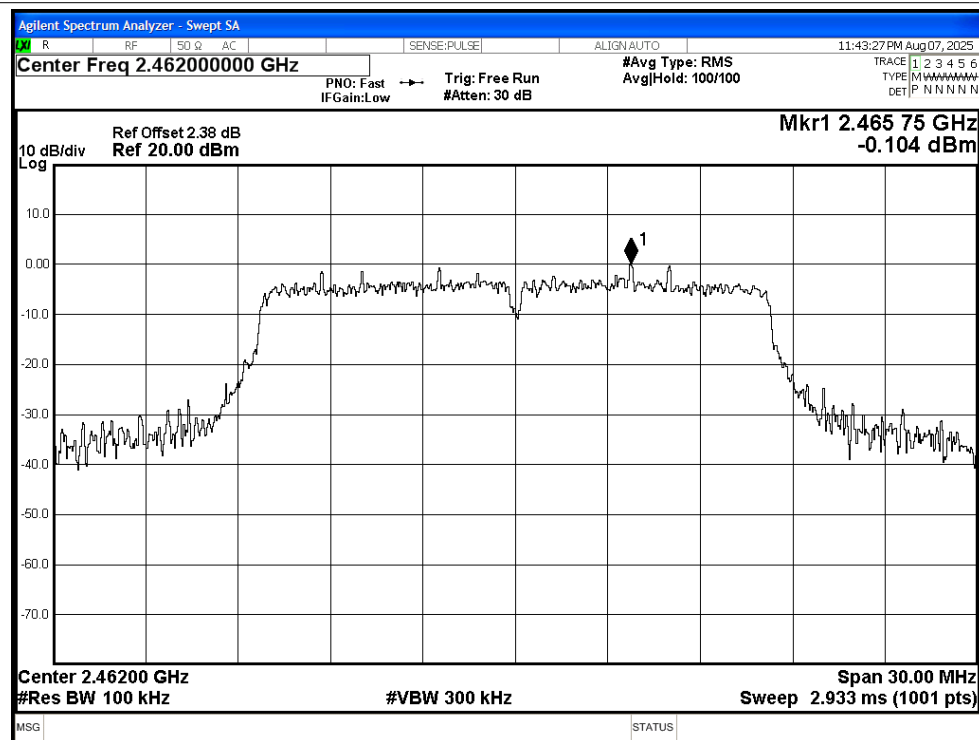
Tx. Spurious NVNT g 2437MHz Ant1 Ref



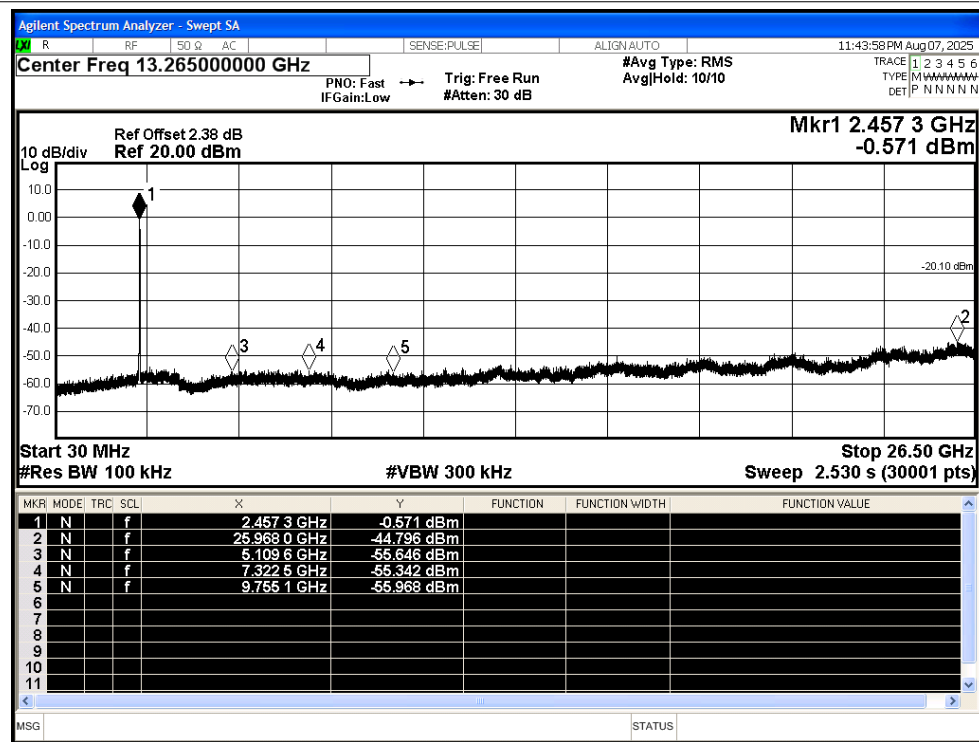
Tx. Spurious NVNT g 2437MHz Ant1 Emission



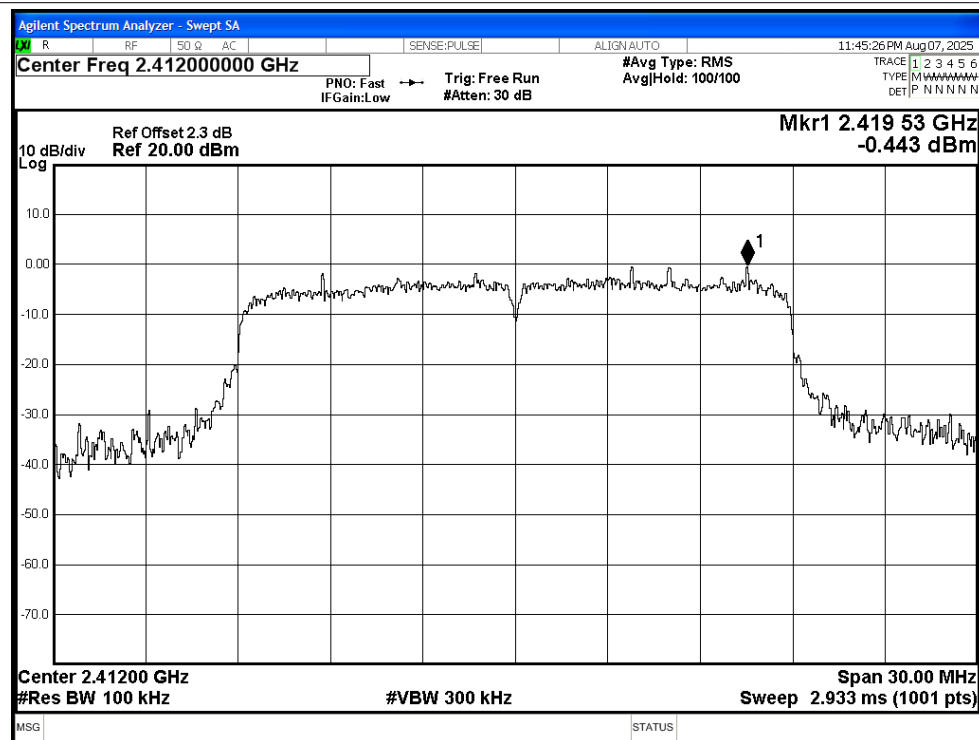
Tx. Spurious NVNT g 2462MHz Ant1 Ref



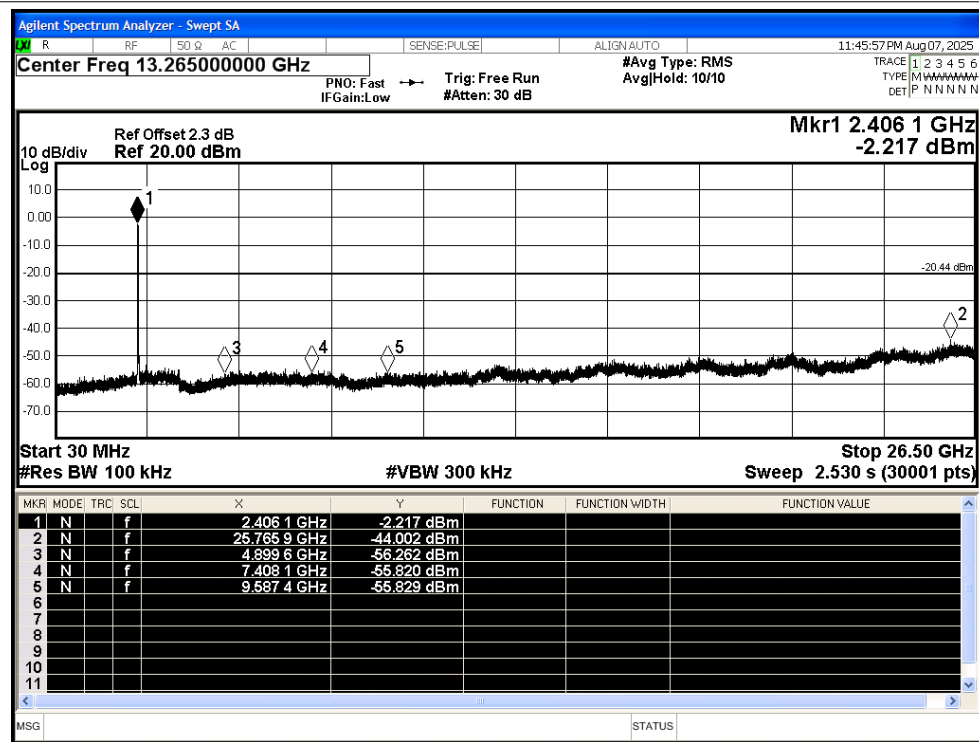
Tx. Spurious NVNT g 2462MHz Ant1 Emission



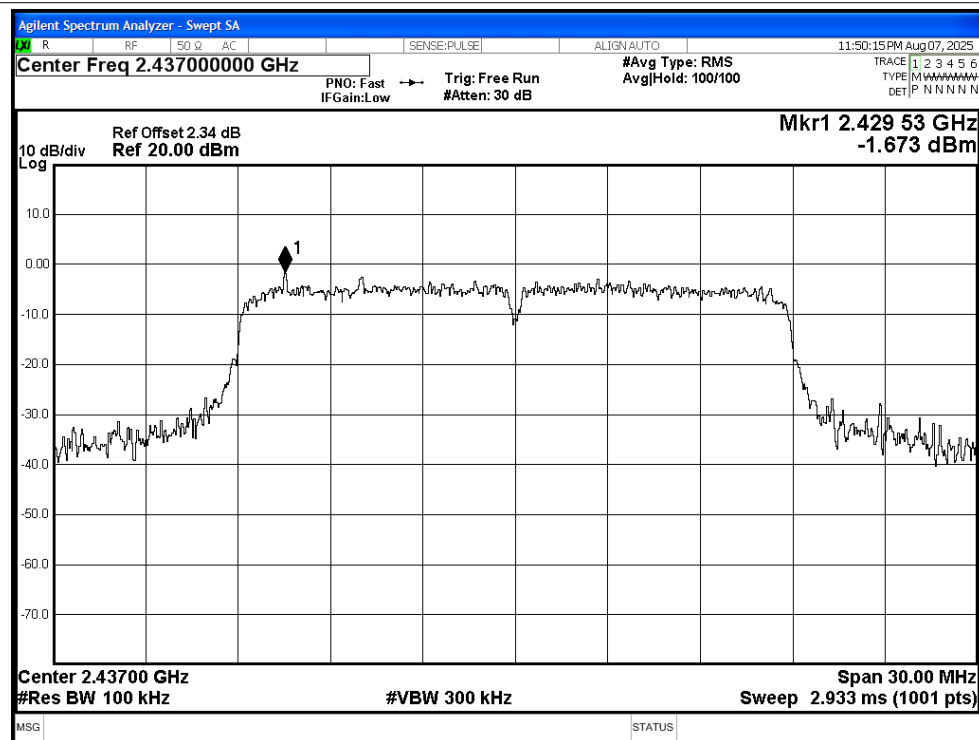
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



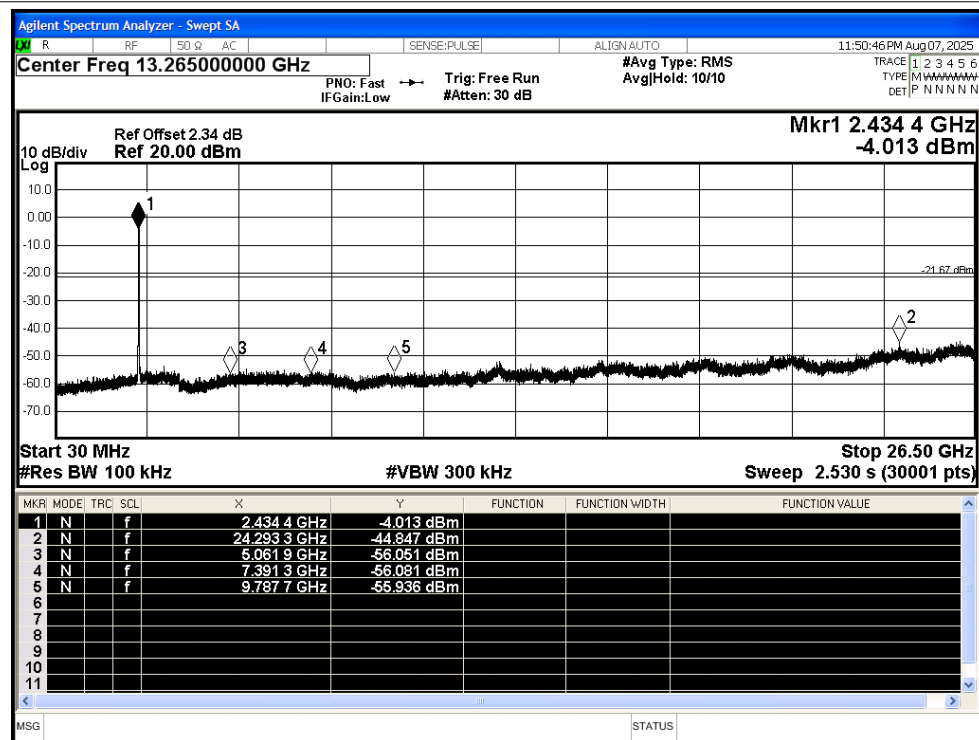
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



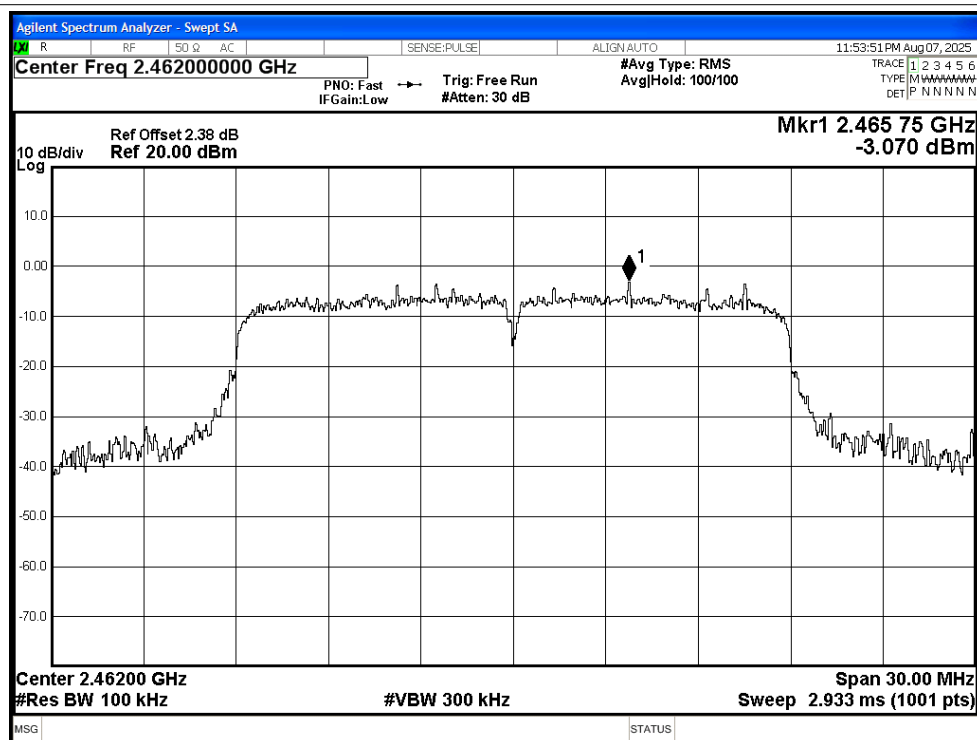
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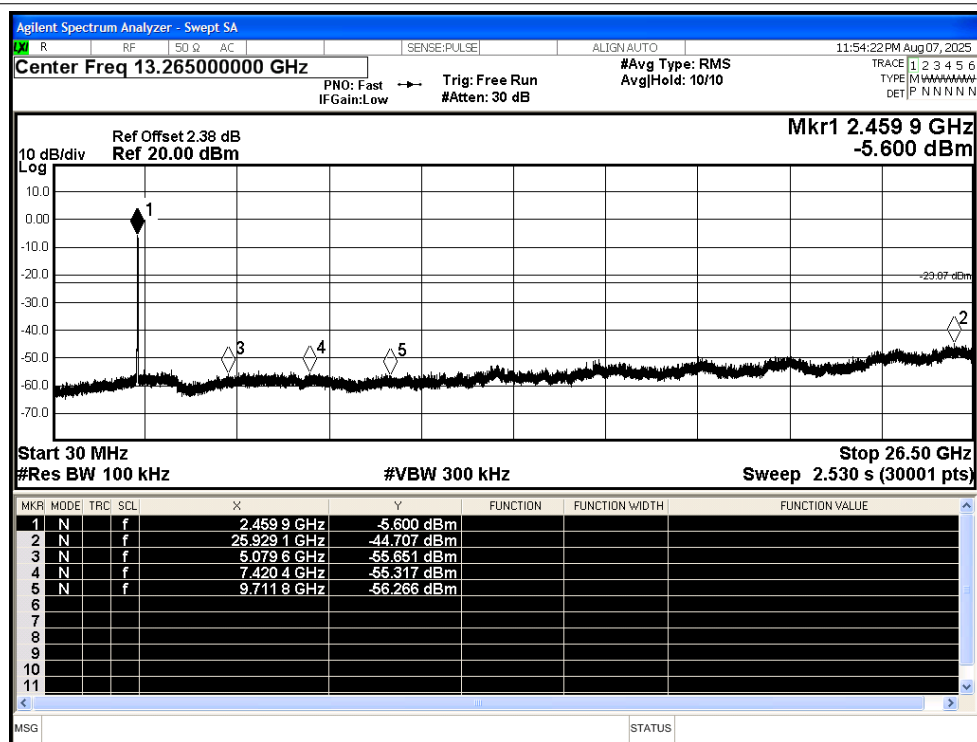
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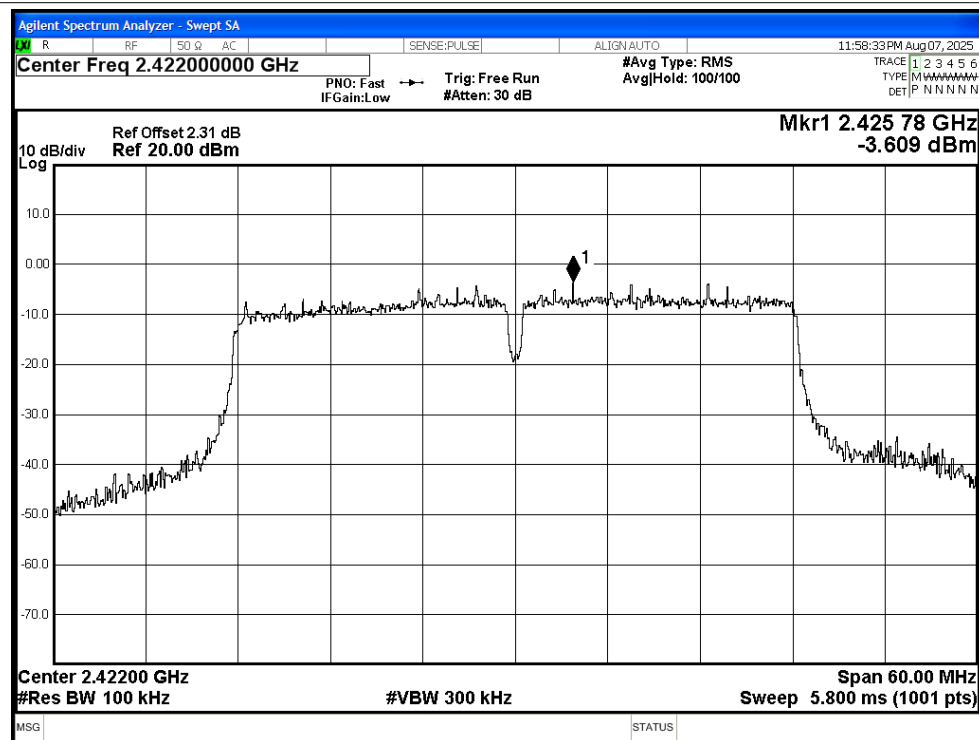
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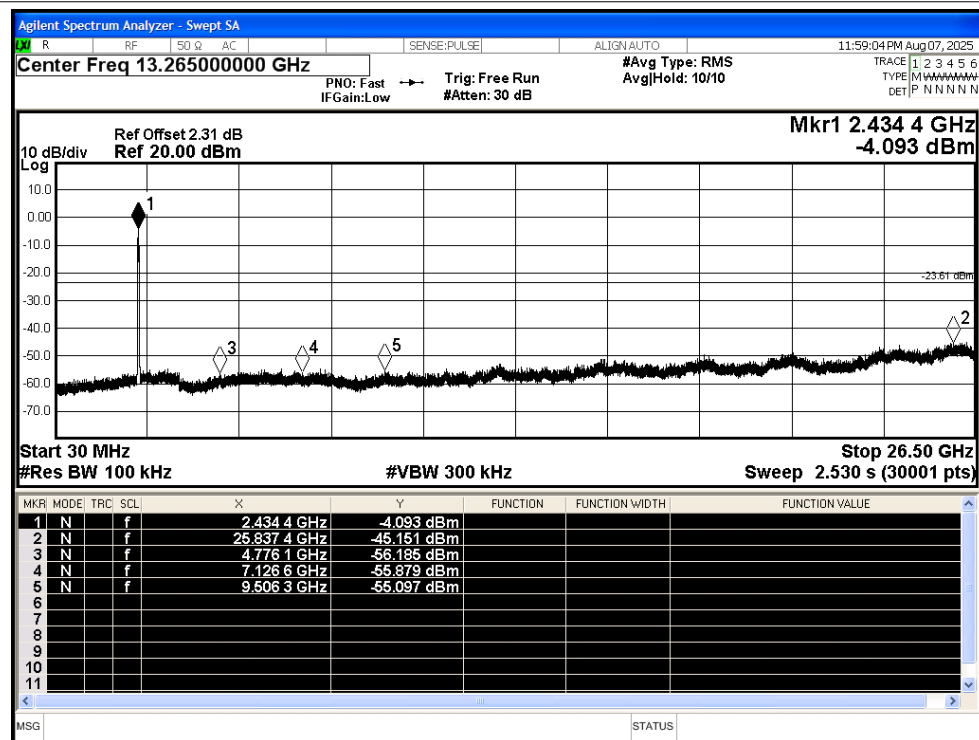
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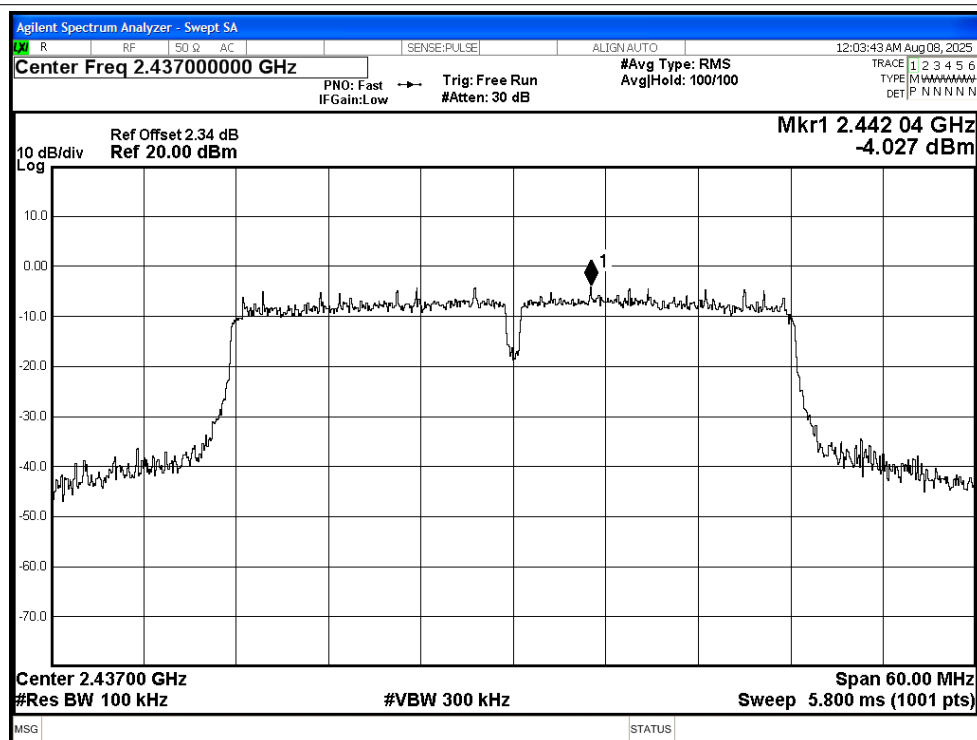
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



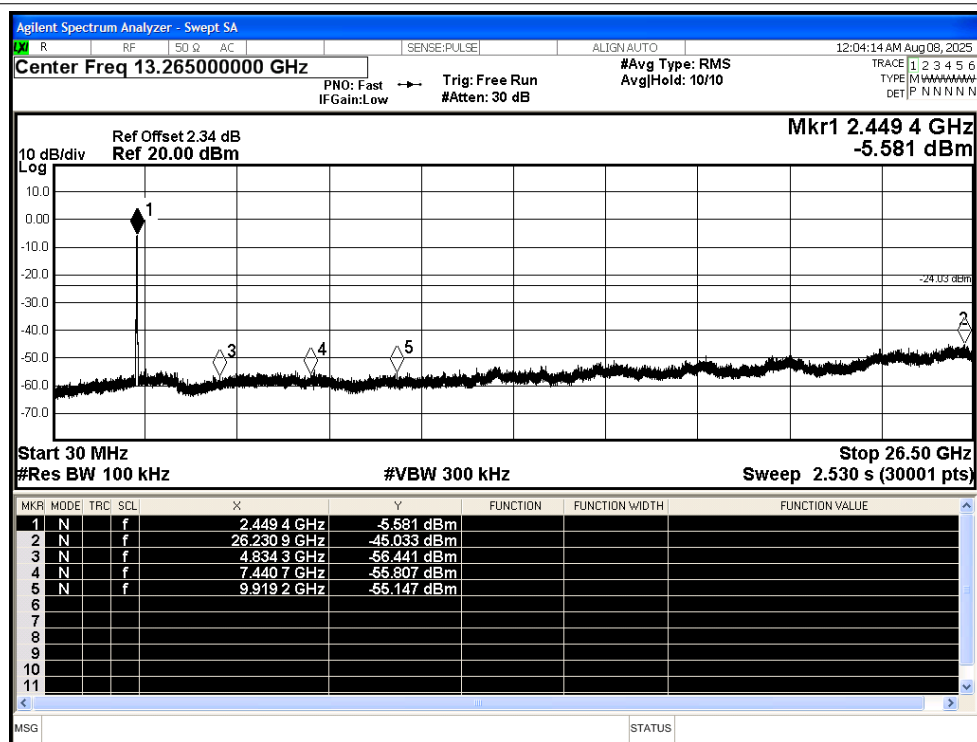
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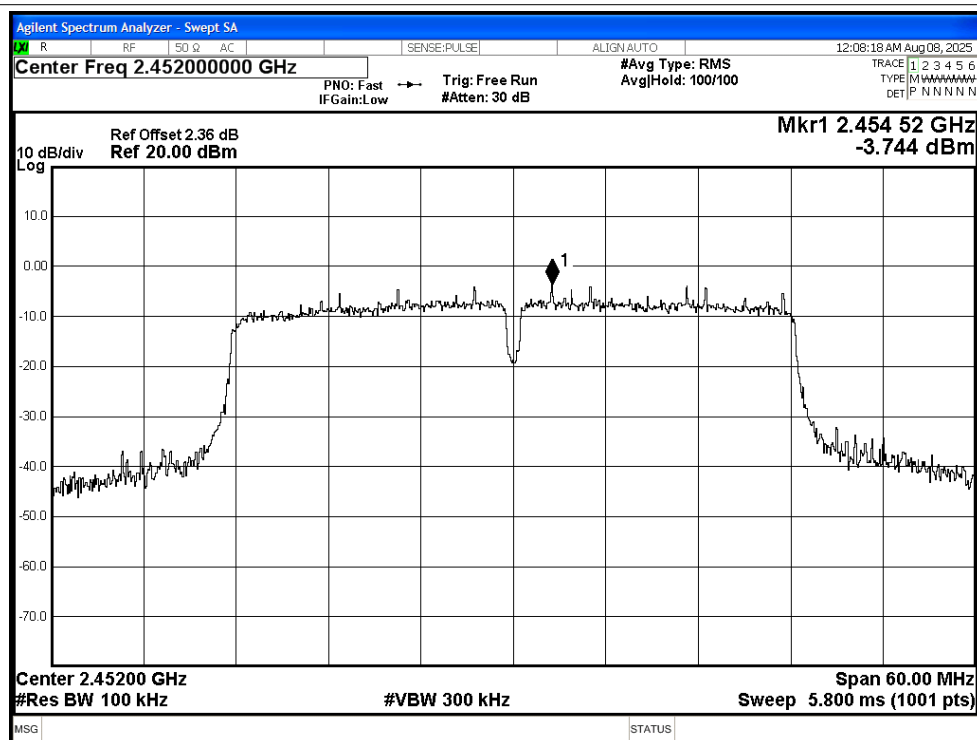
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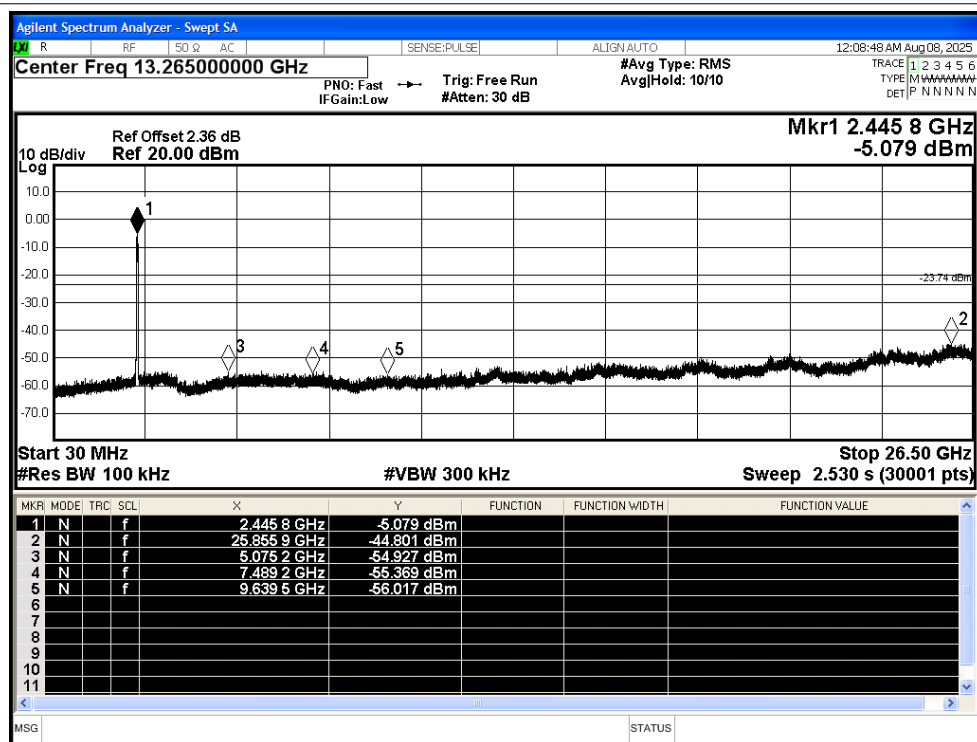
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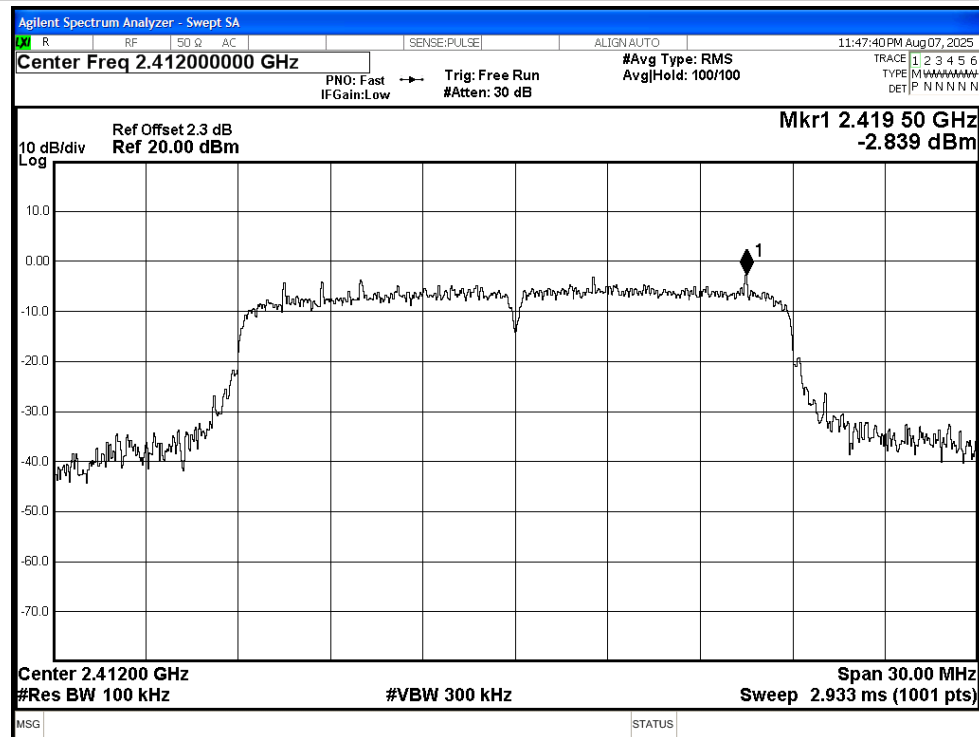
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



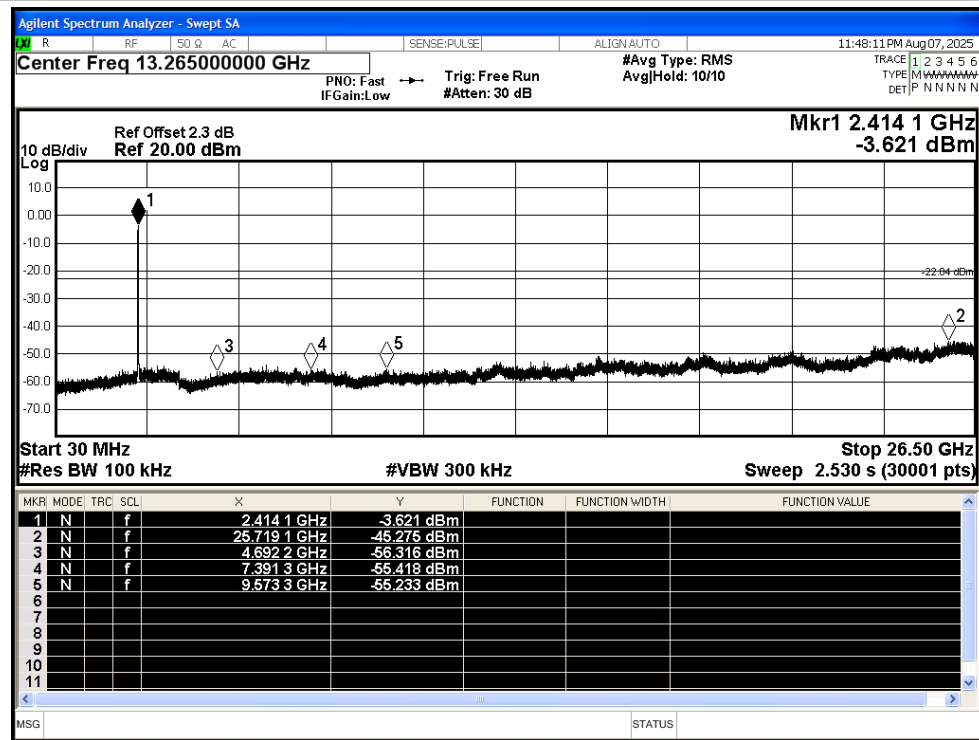
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



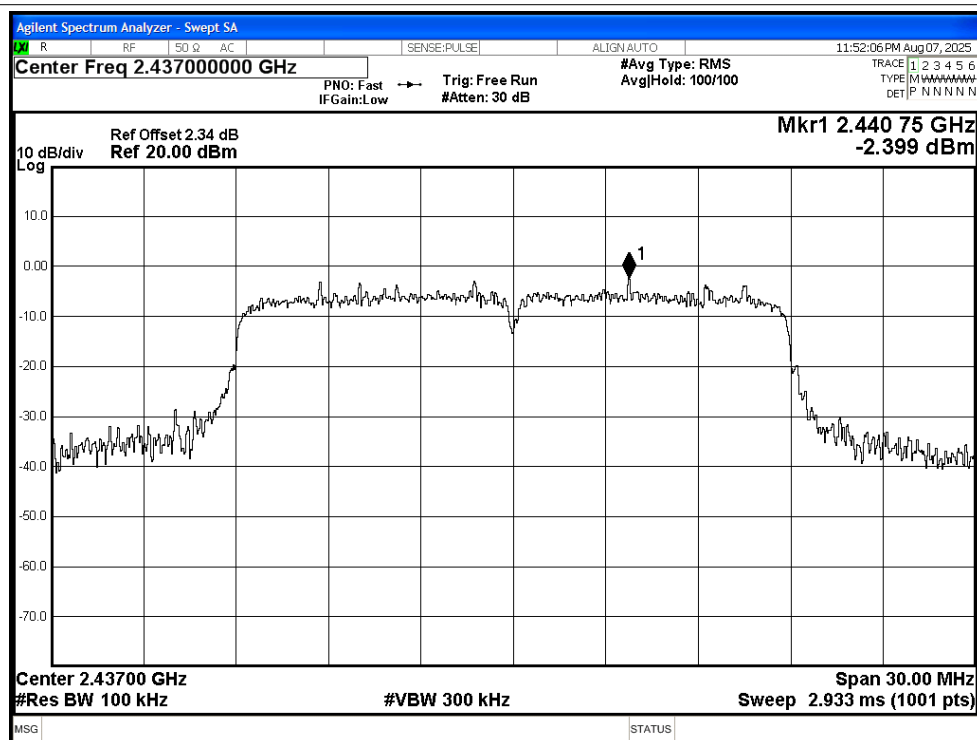
Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



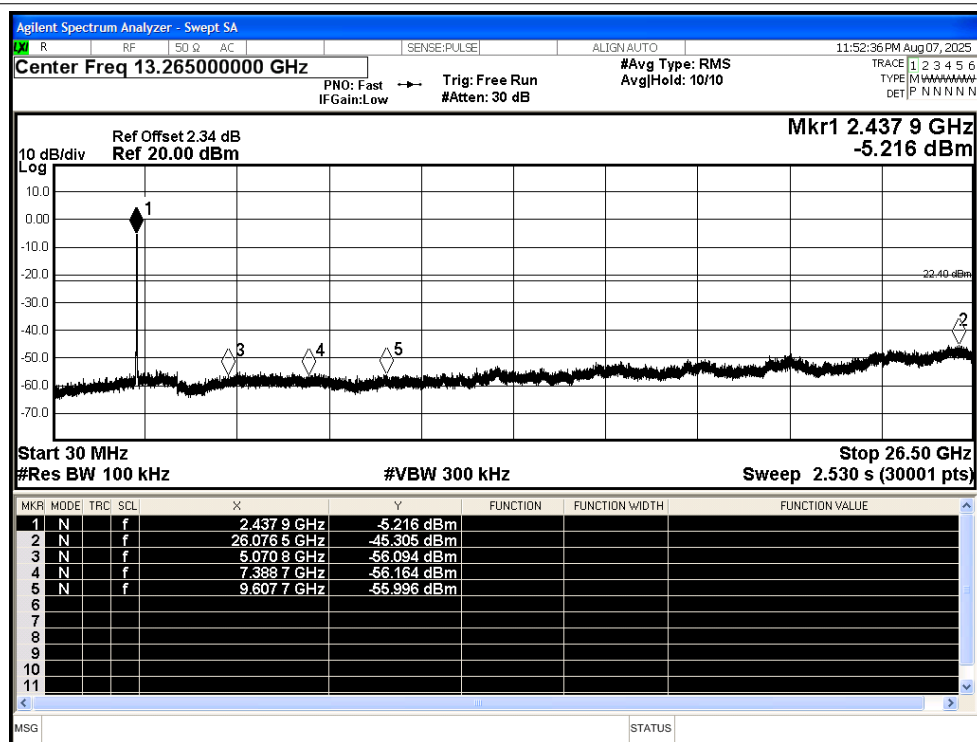
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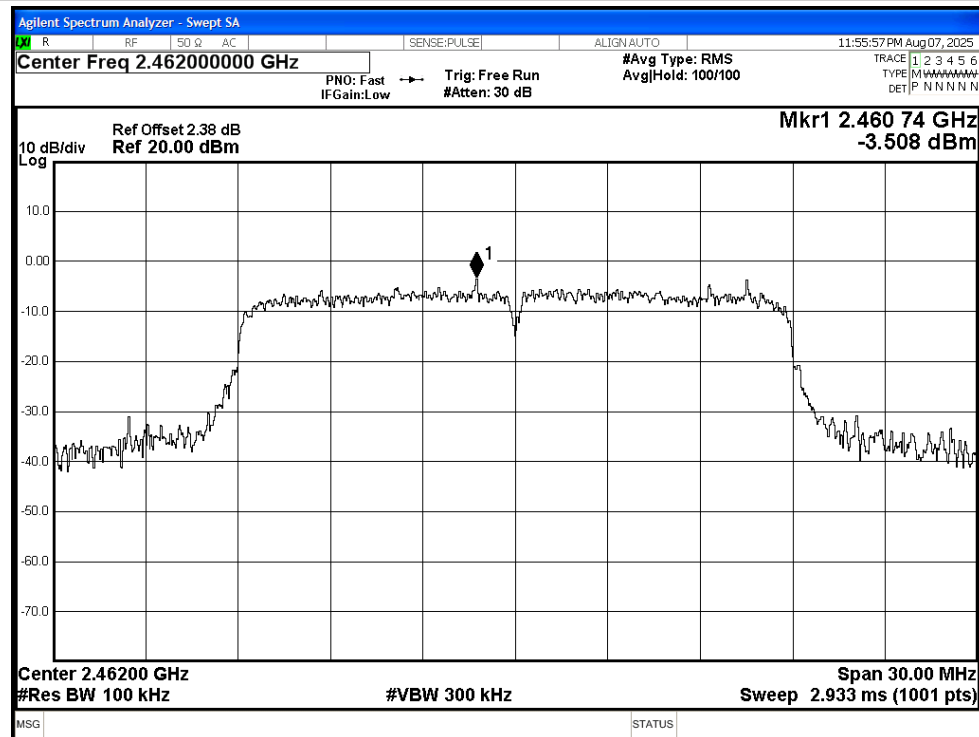
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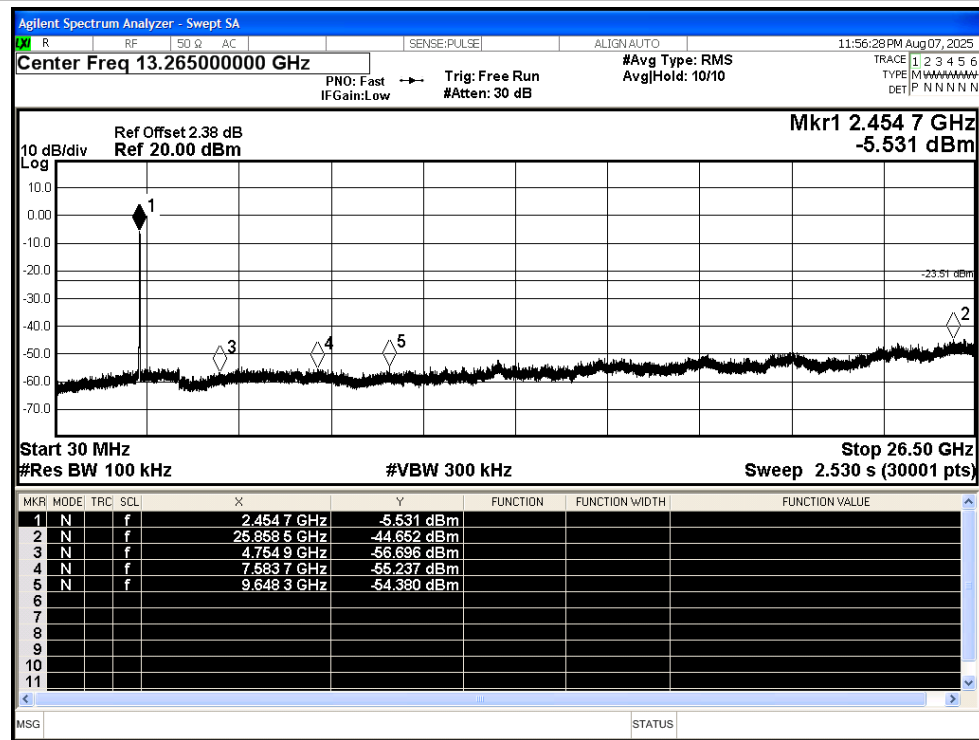
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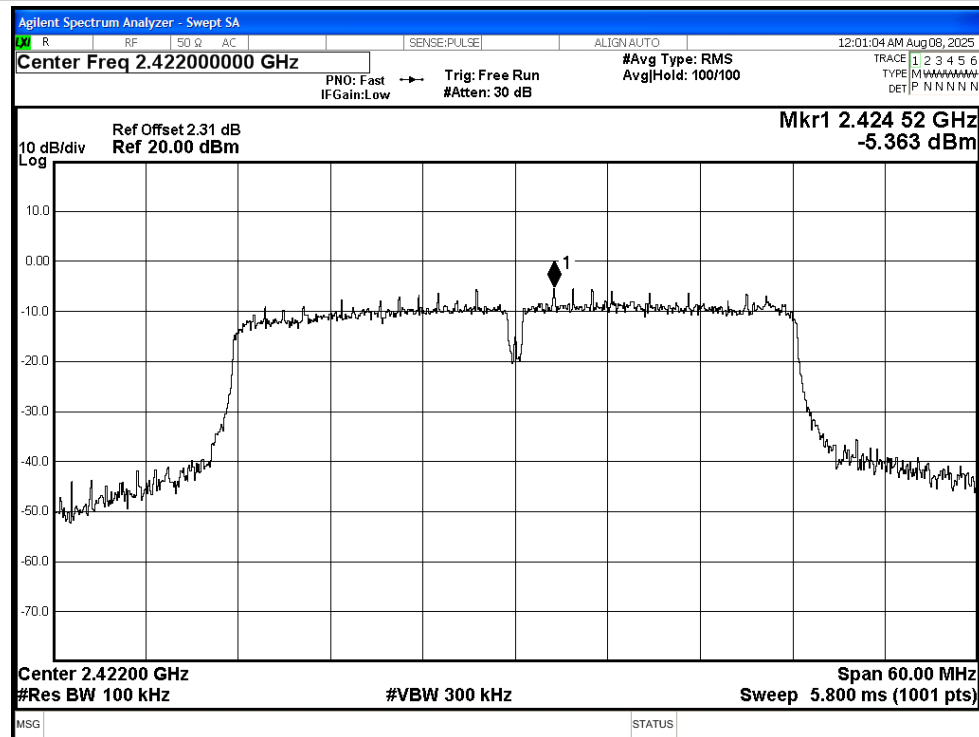
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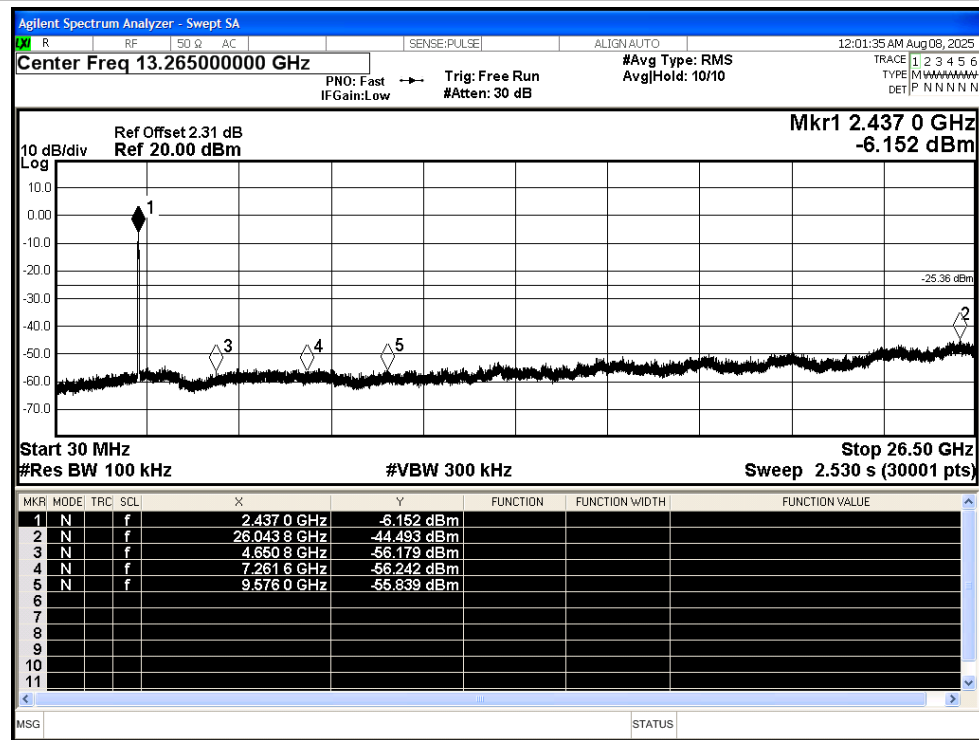
Tx. Spurious NVNT ax20 2462MHz Ant1 Emission



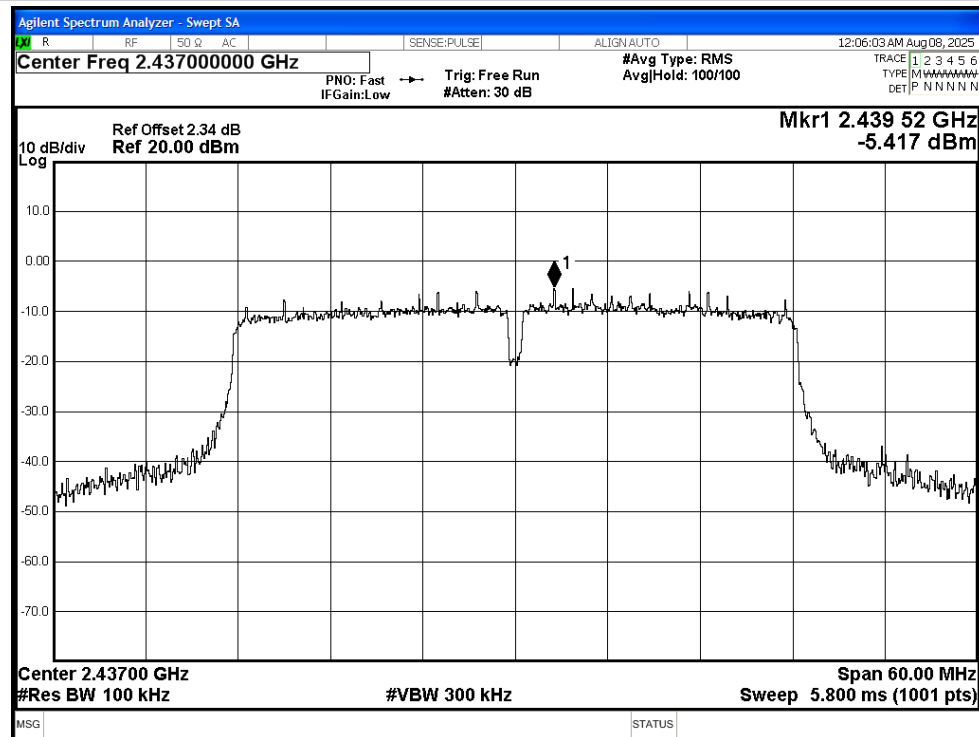
Tx. Spurious NVNT ax40 2422MHz Ant1 Ref



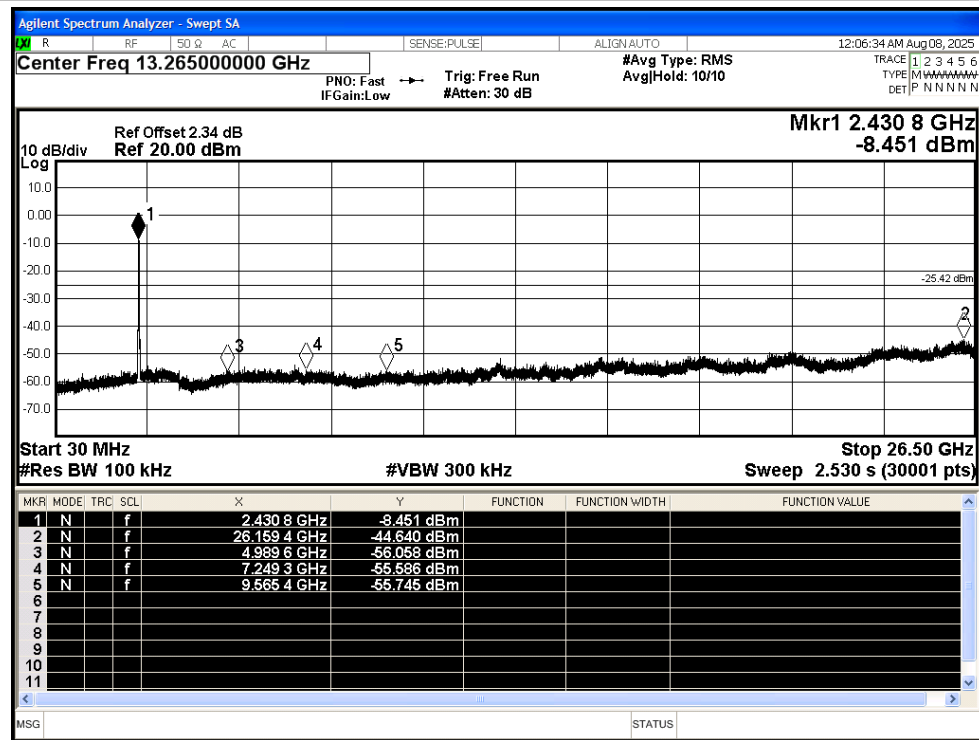
Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



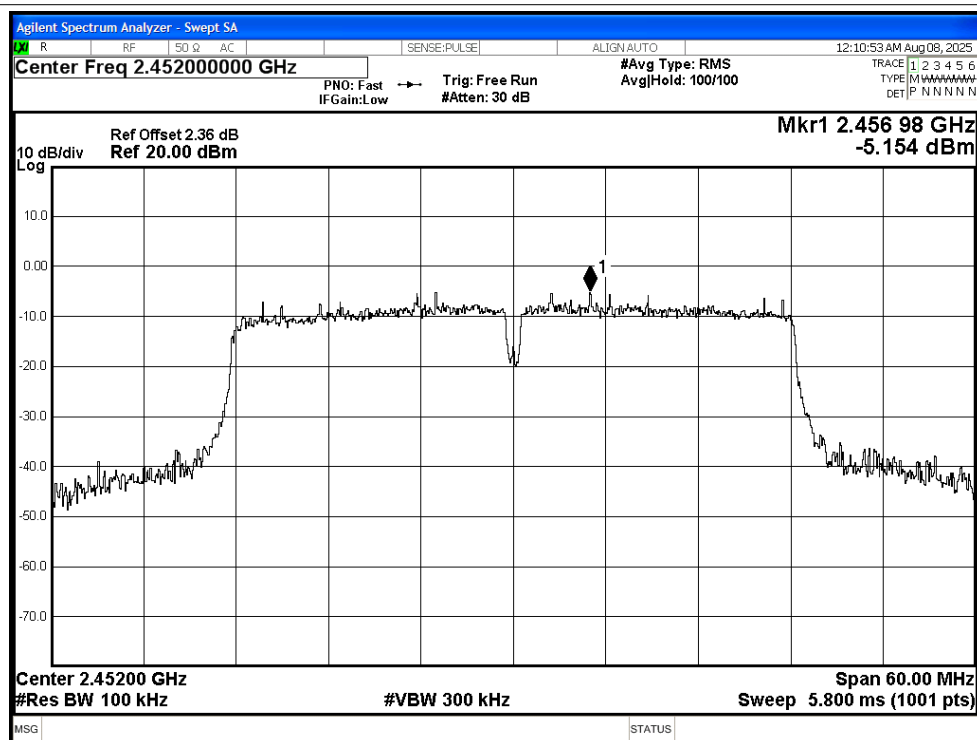
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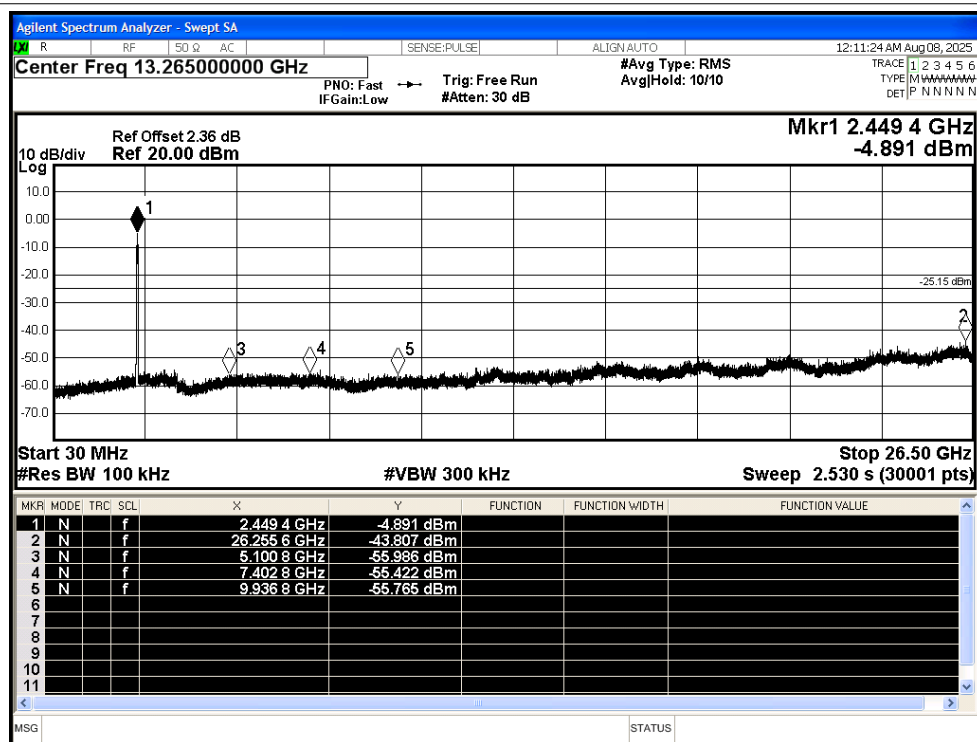
Tx. Spurious NVNT ax40 2437MHz Ant1 Emission



Tx. Spurious NVNT ax40 2452MHz Ant1 Ref



Tx. Spurious NVNT ax40 2452MHz Ant1 Emission

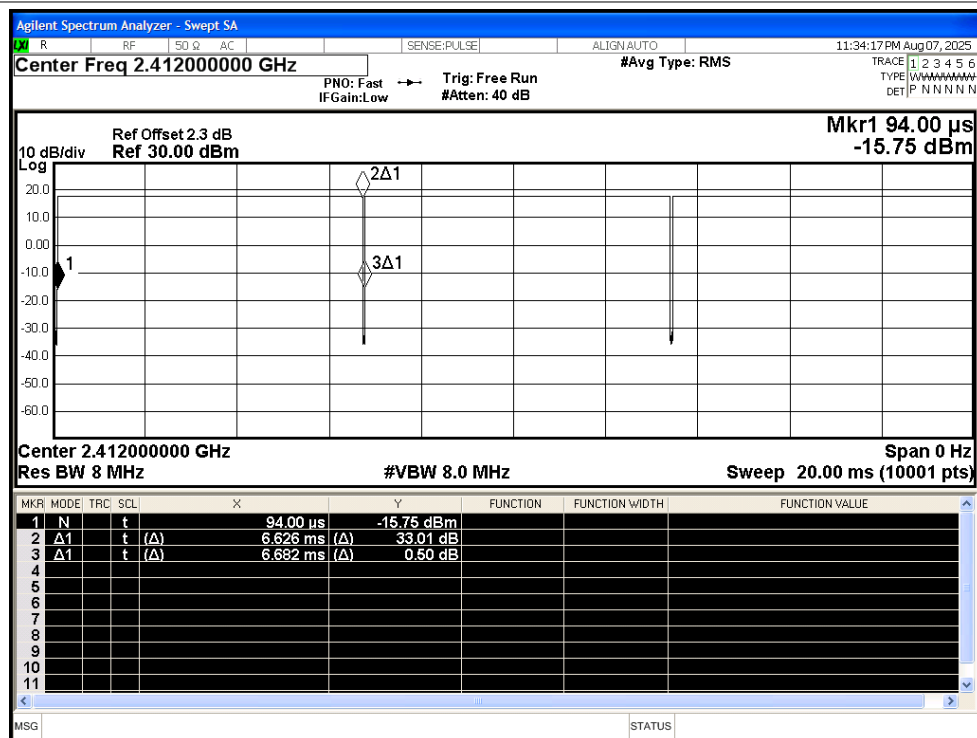


Duty Cycle

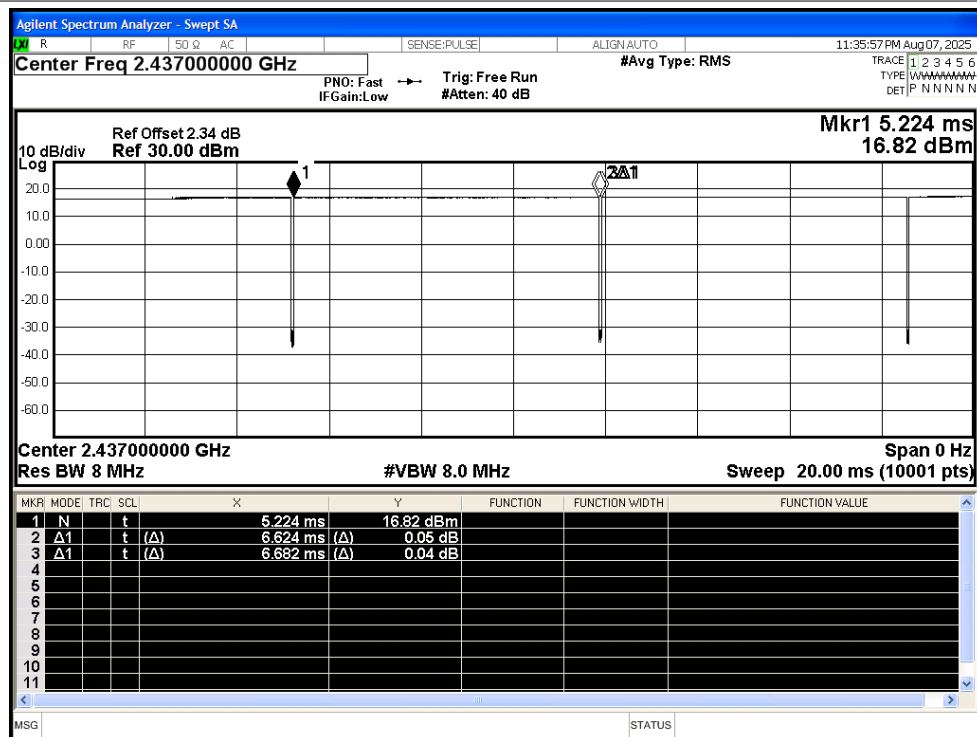
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.16	0	0.15
NVNT	b	2437	Ant1	99.13	0	0.15
NVNT	b	2462	Ant1	99.16	0	0.15
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.33	0.12	0.44
NVNT	n20	2437	Ant1	97.25	0.12	0.44
NVNT	n20	2462	Ant1	97.33	0.12	0.44
NVNT	n40	2422	Ant1	94.7	0.24	0.9
NVNT	n40	2437	Ant1	94.7	0.24	0.9
NVNT	n40	2452	Ant1	94.7	0.24	0.9
NVNT	ax20	2412	Ant1	97.33	0.12	0.44
NVNT	ax20	2437	Ant1	97.33	0.12	0.44
NVNT	ax20	2462	Ant1	97.25	0.12	0.44
NVNT	ax40	2422	Ant1	94.71	0.24	0.9
NVNT	ax40	2437	Ant1	94.7	0.24	0.9
NVNT	ax40	2452	Ant1	94.71	0.24	0.9

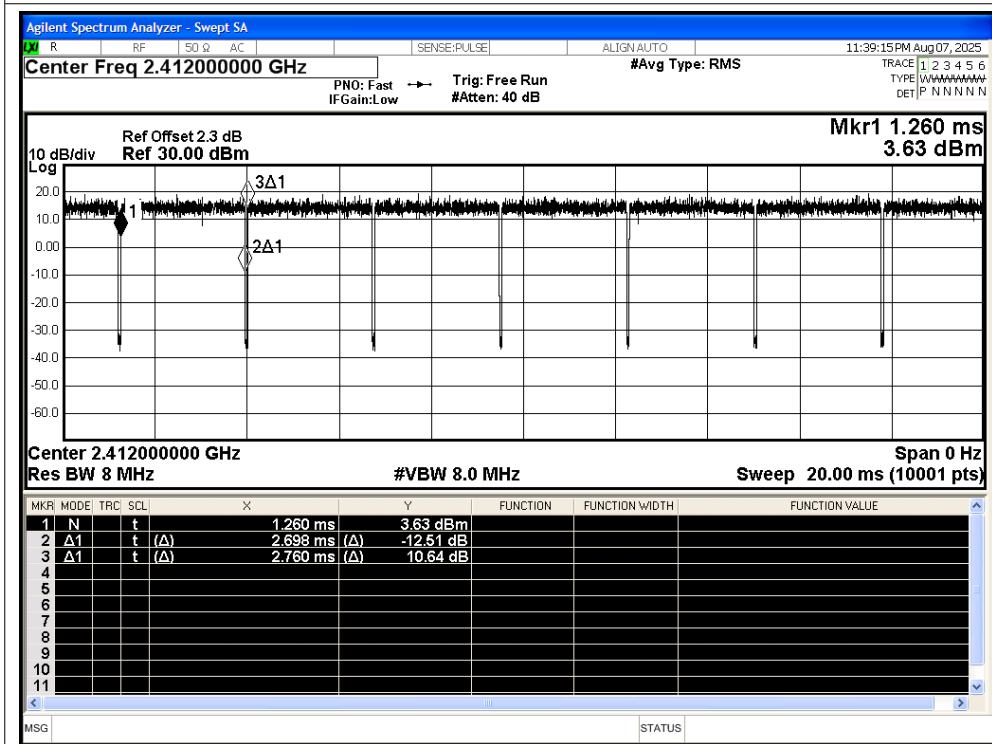
Test Graphs

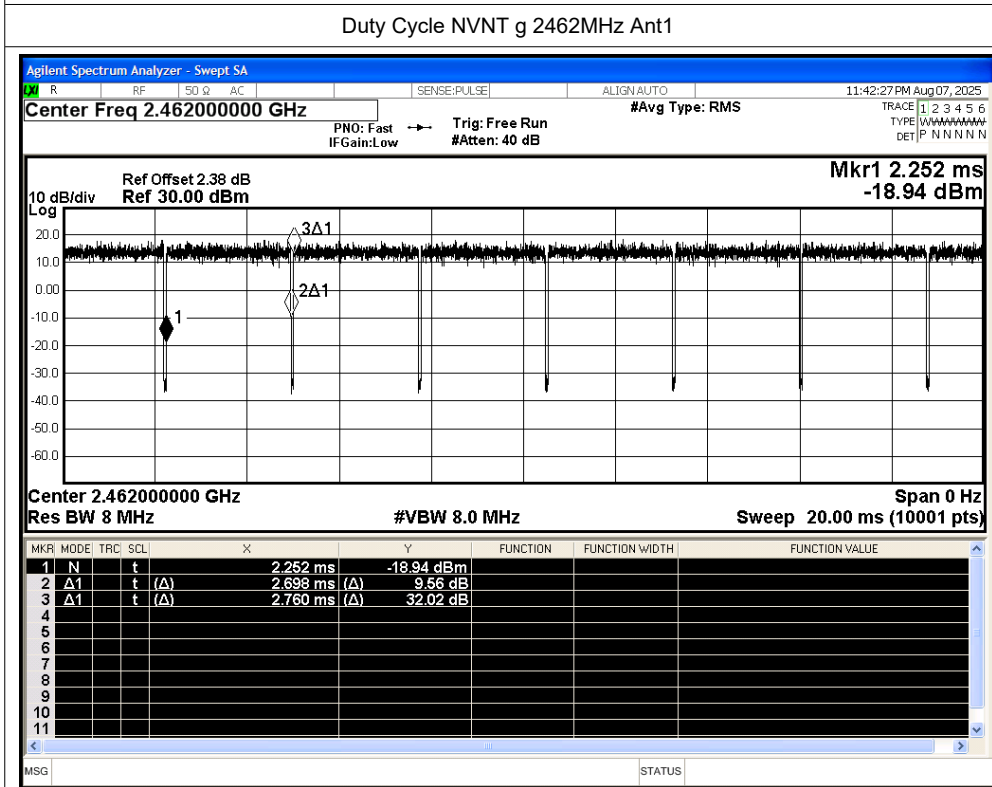
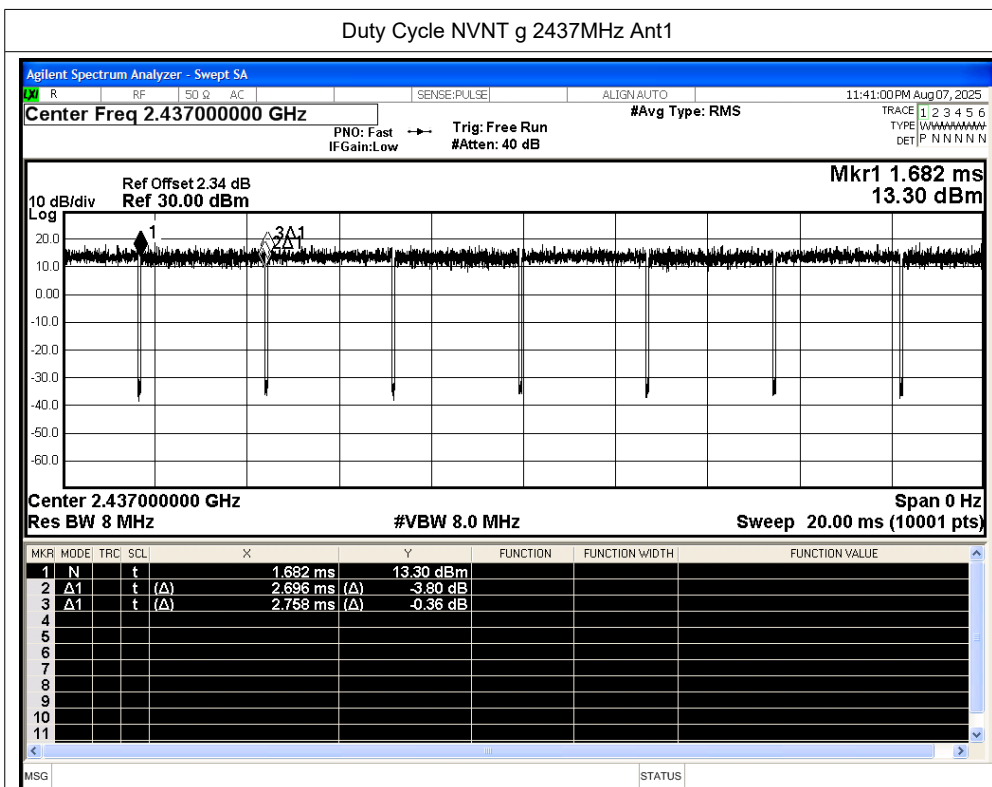
Duty Cycle NVNT b 2412MHz Ant1

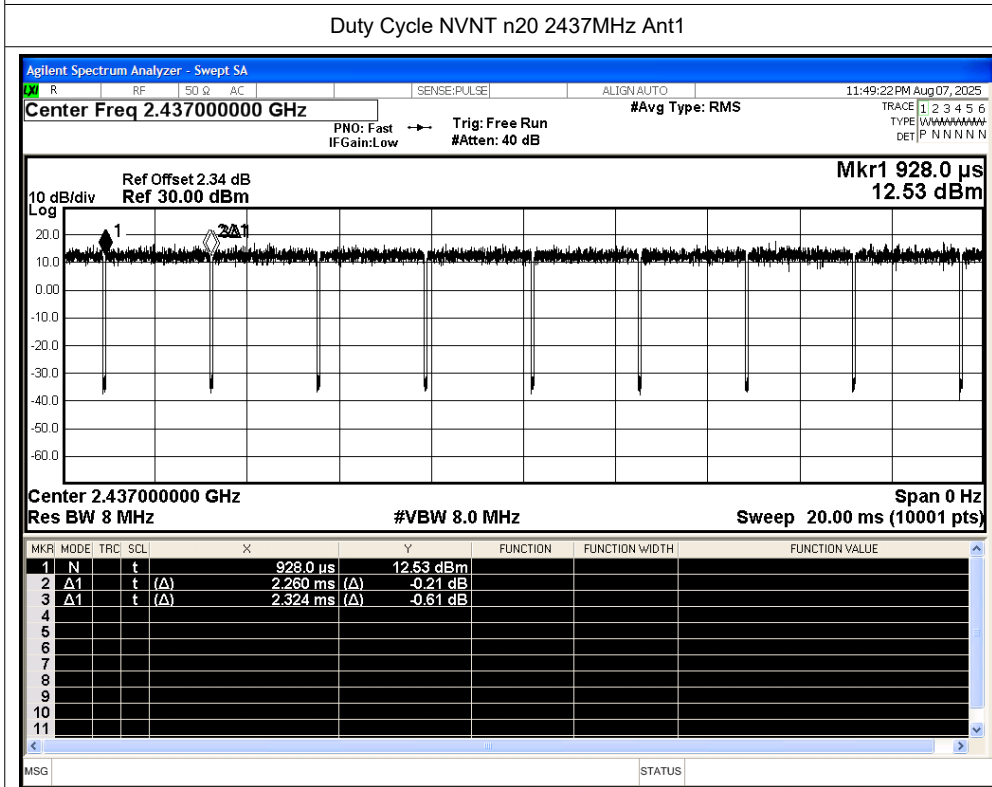
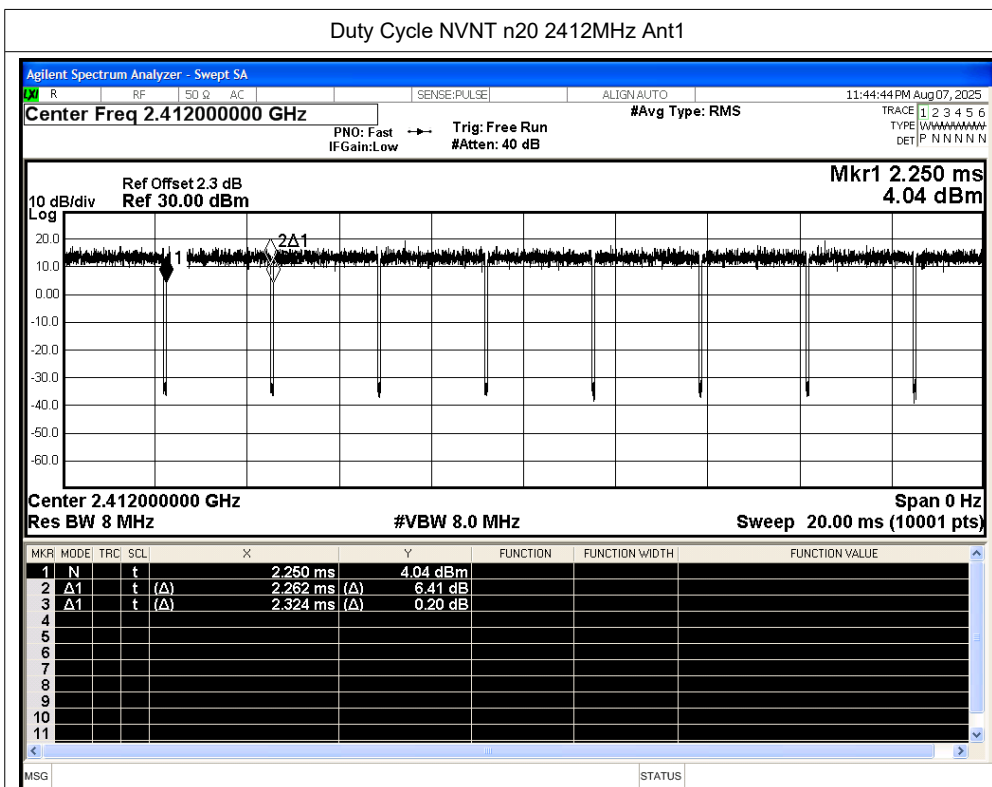


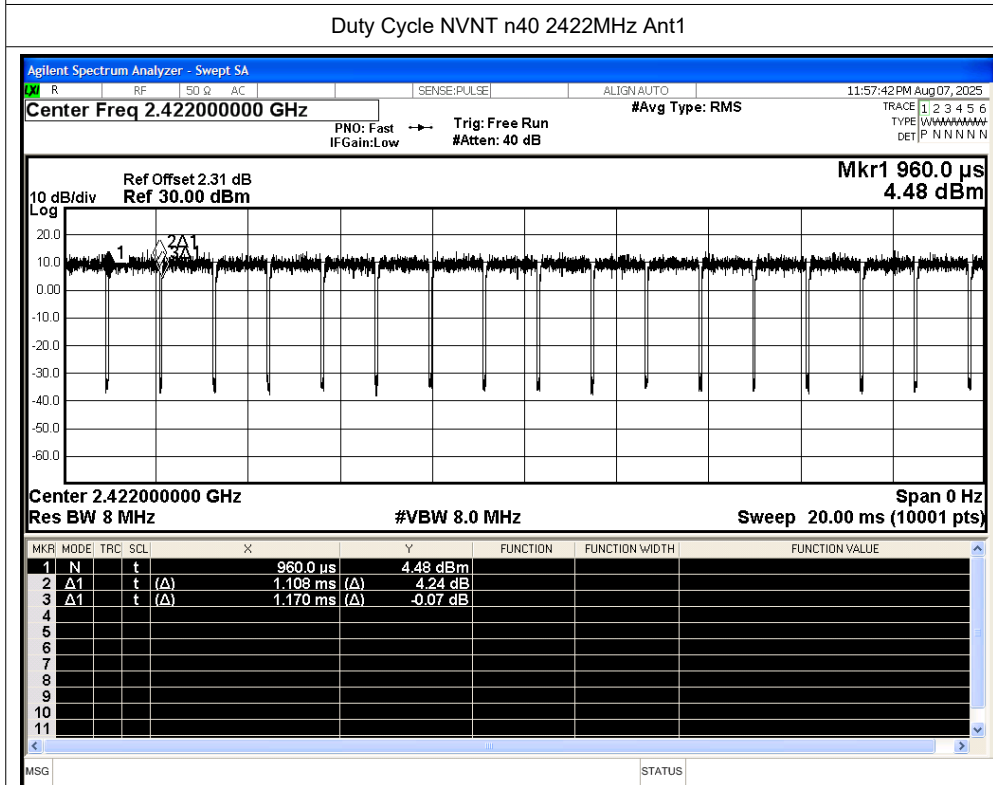
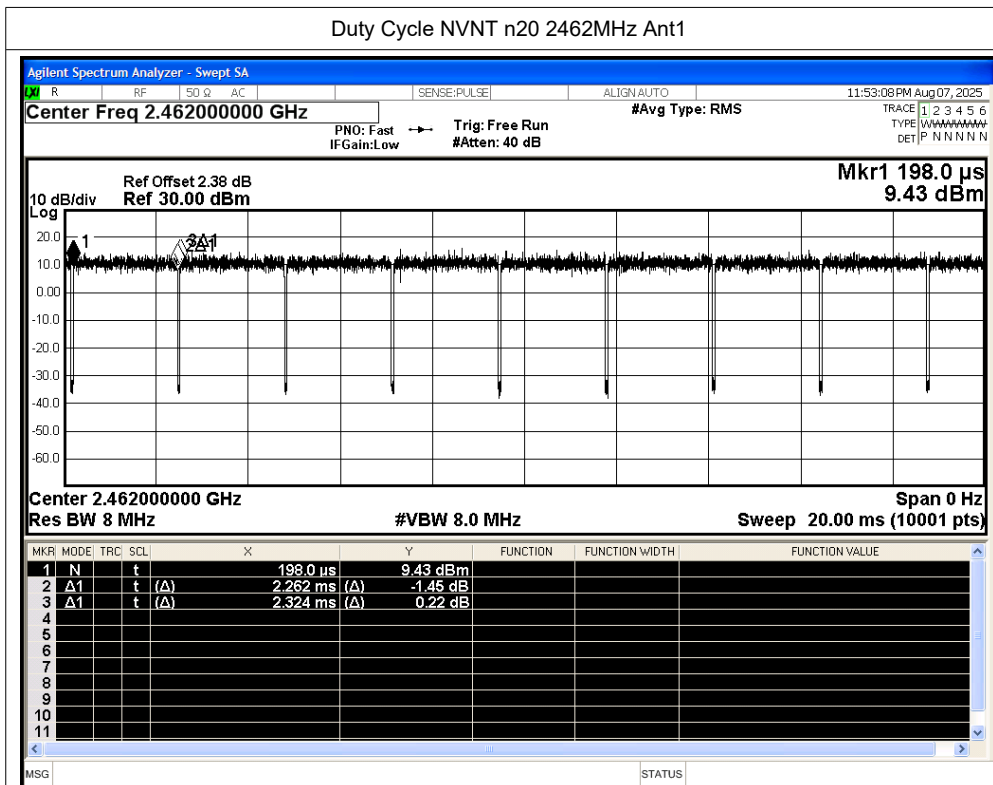
Duty Cycle NVNT b 2437MHz Ant1

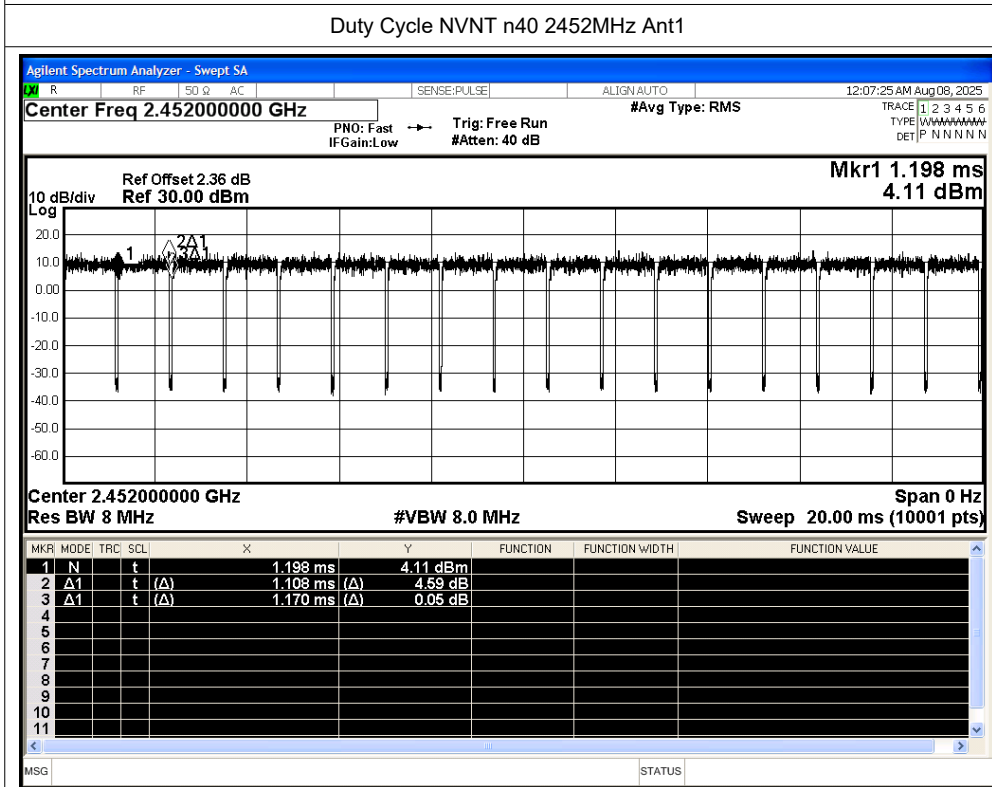
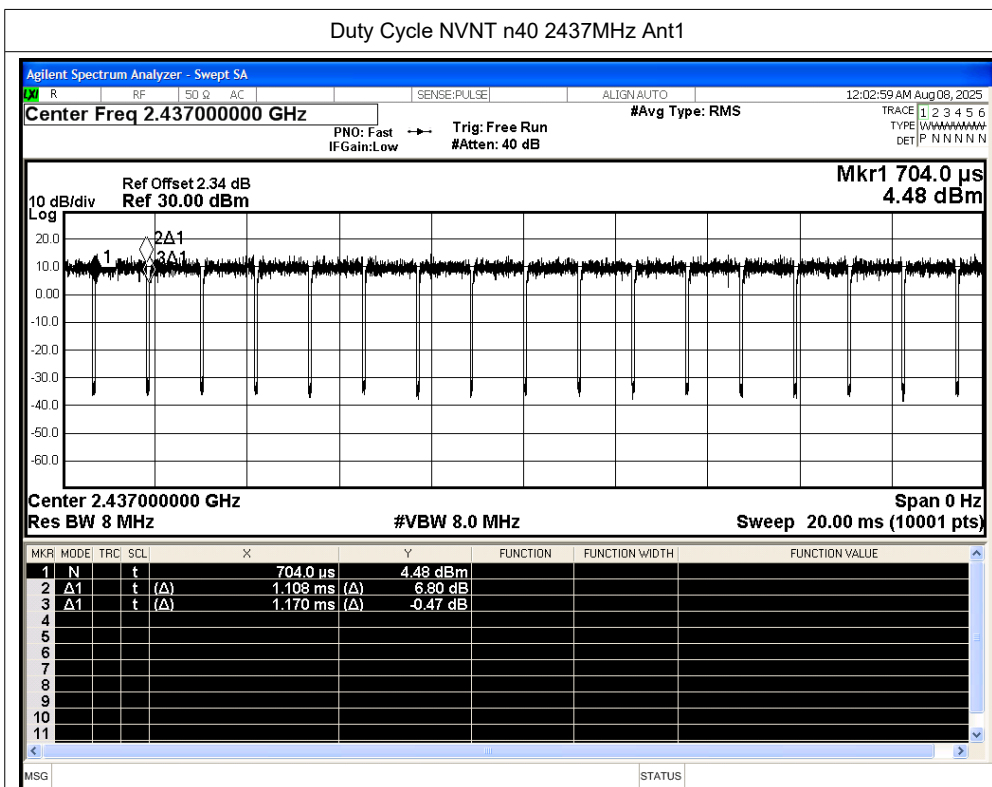


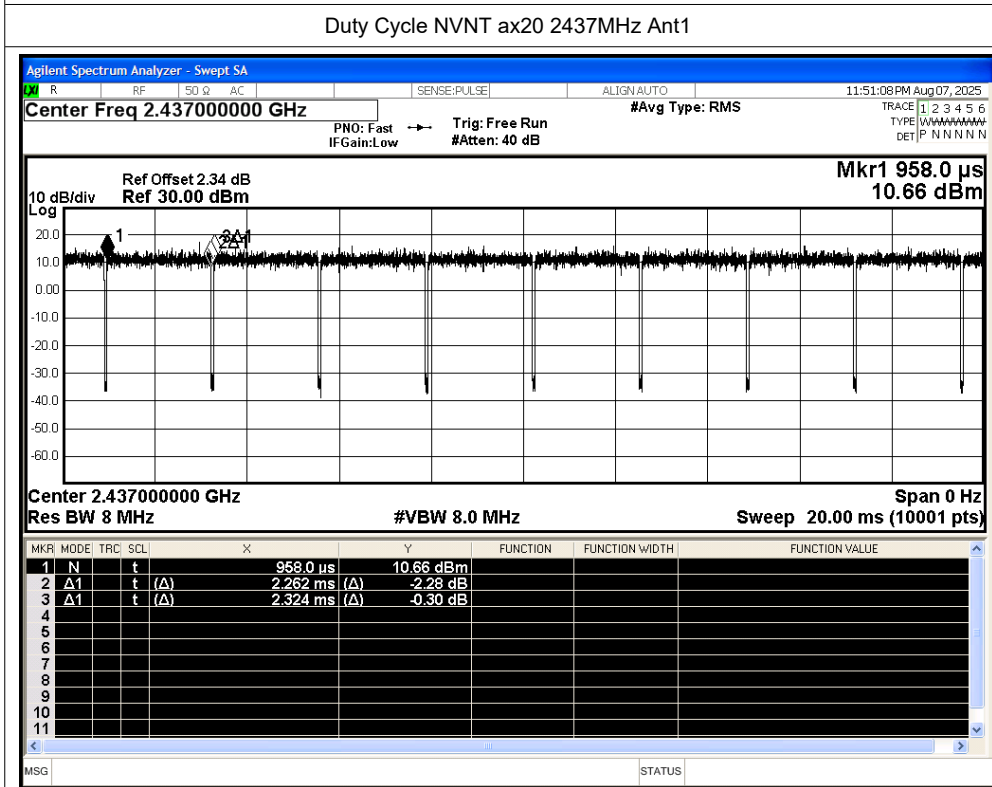
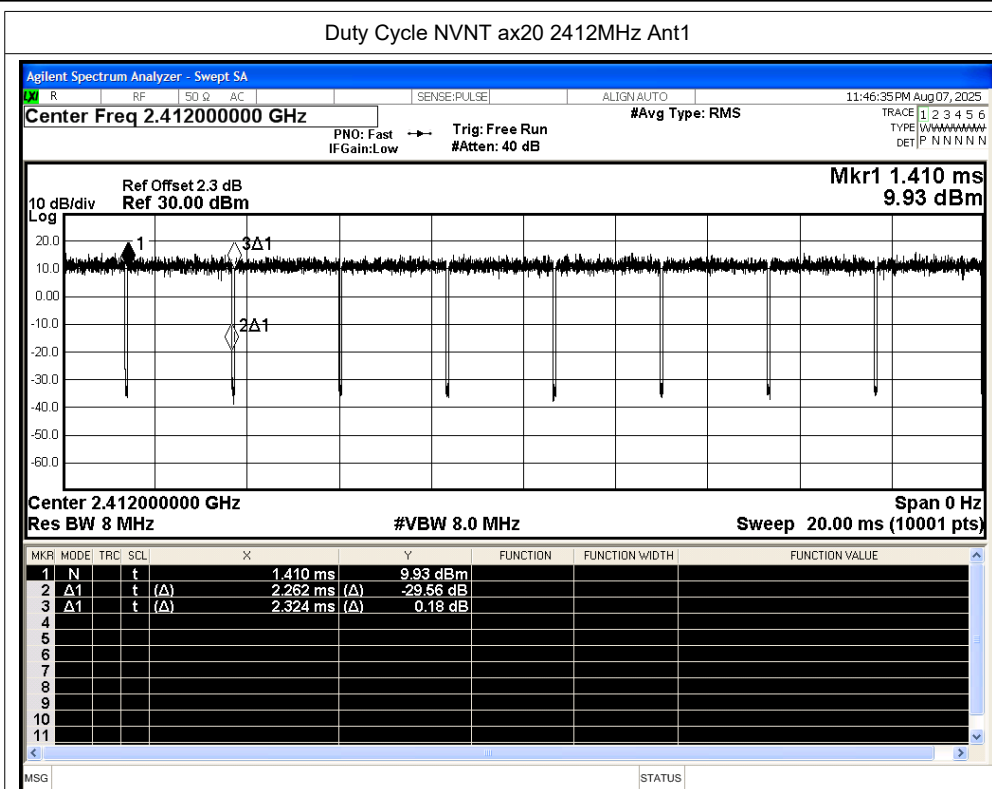


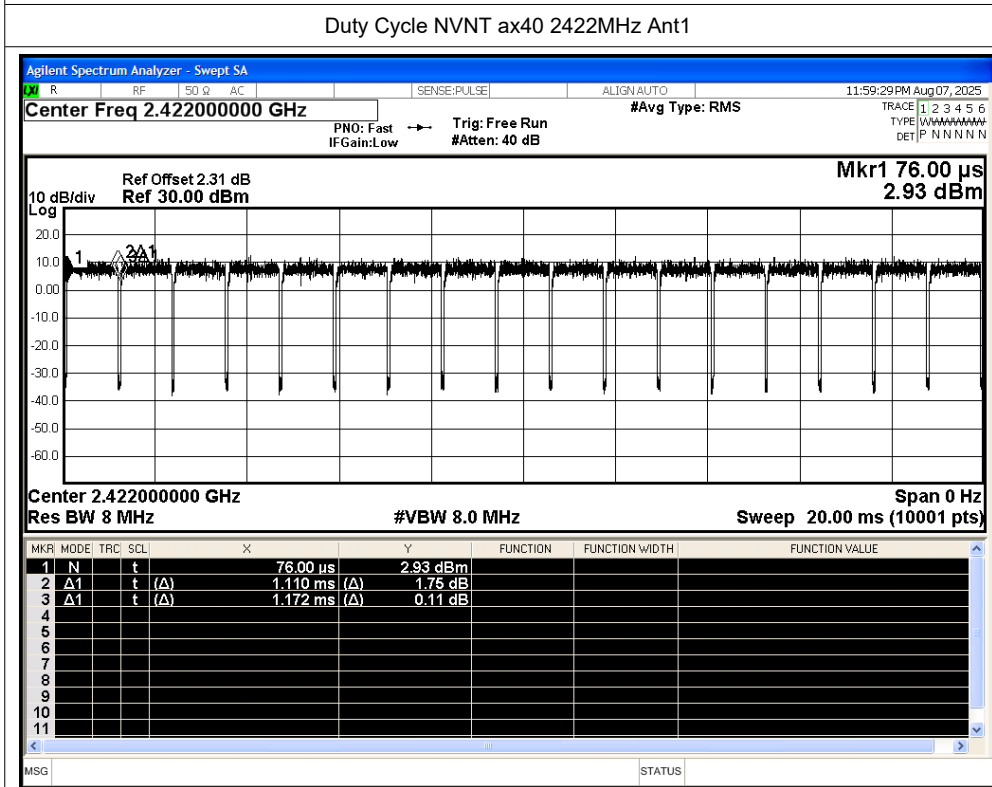
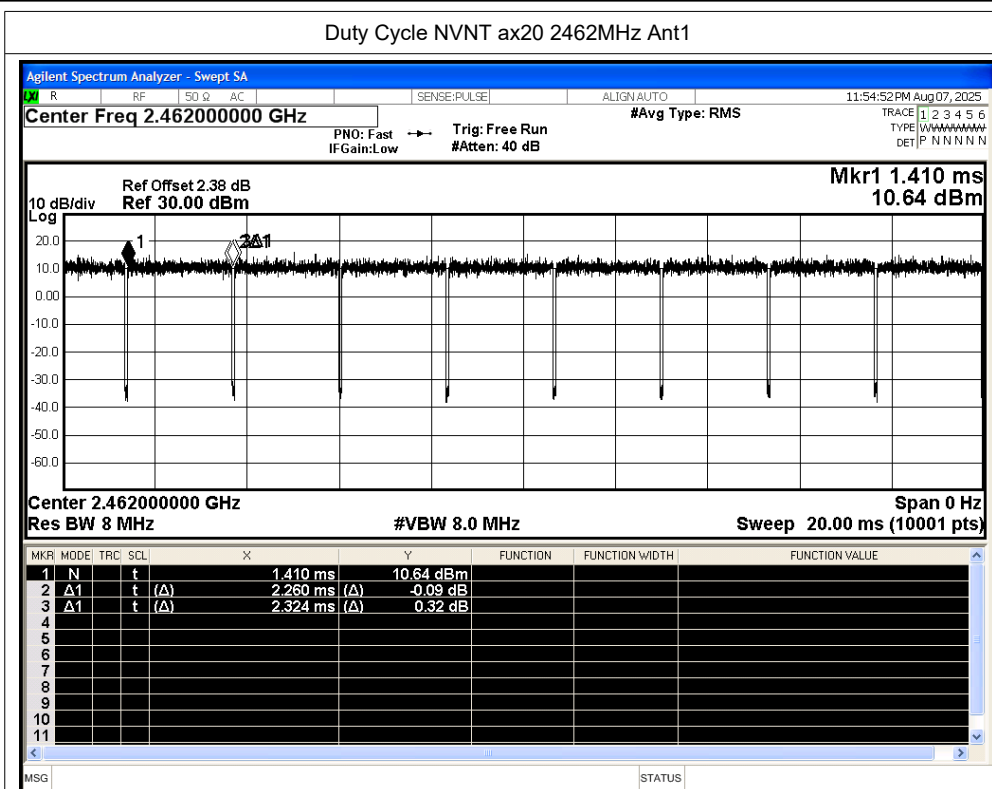




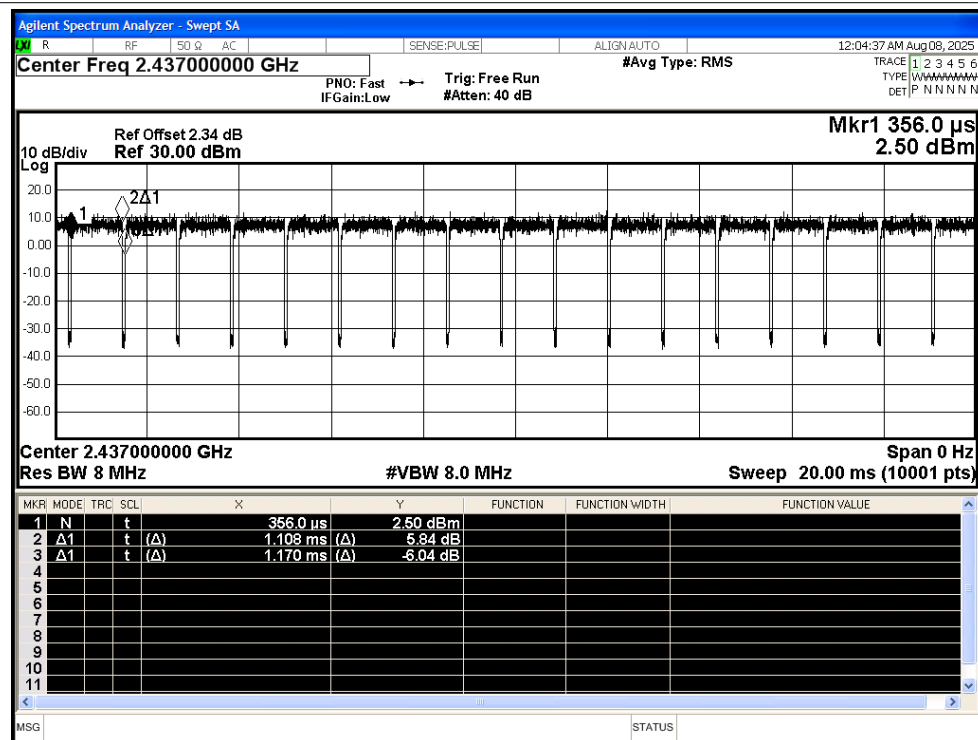




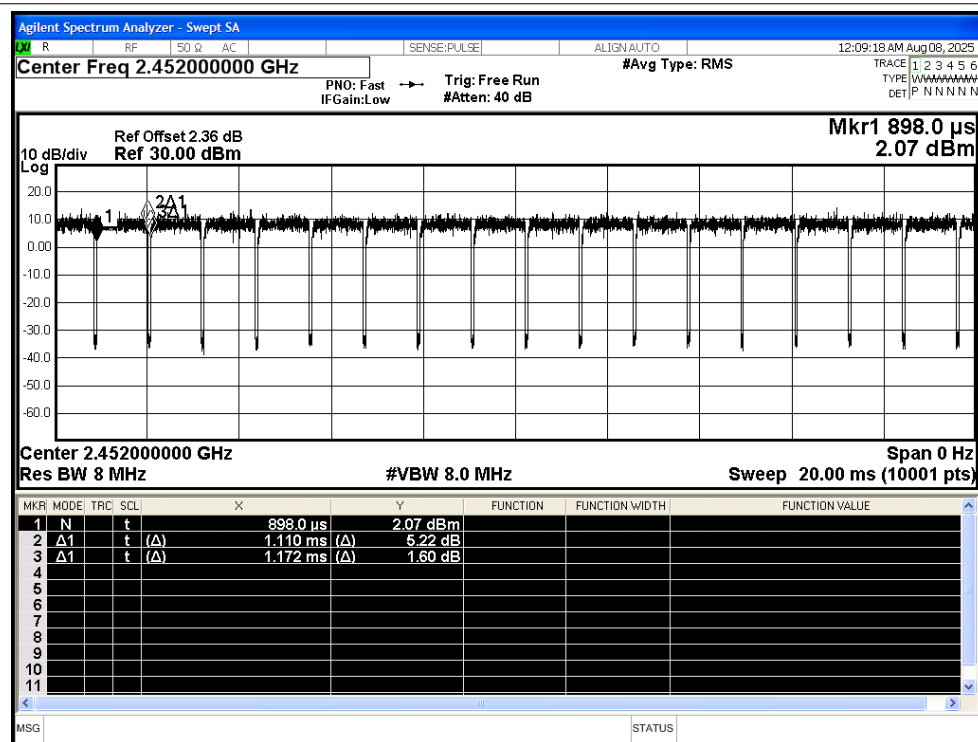




Duty Cycle NVNT ax40 2437MHz Ant1



Duty Cycle NVNT ax40 2452MHz Ant1



***** End of Report *****