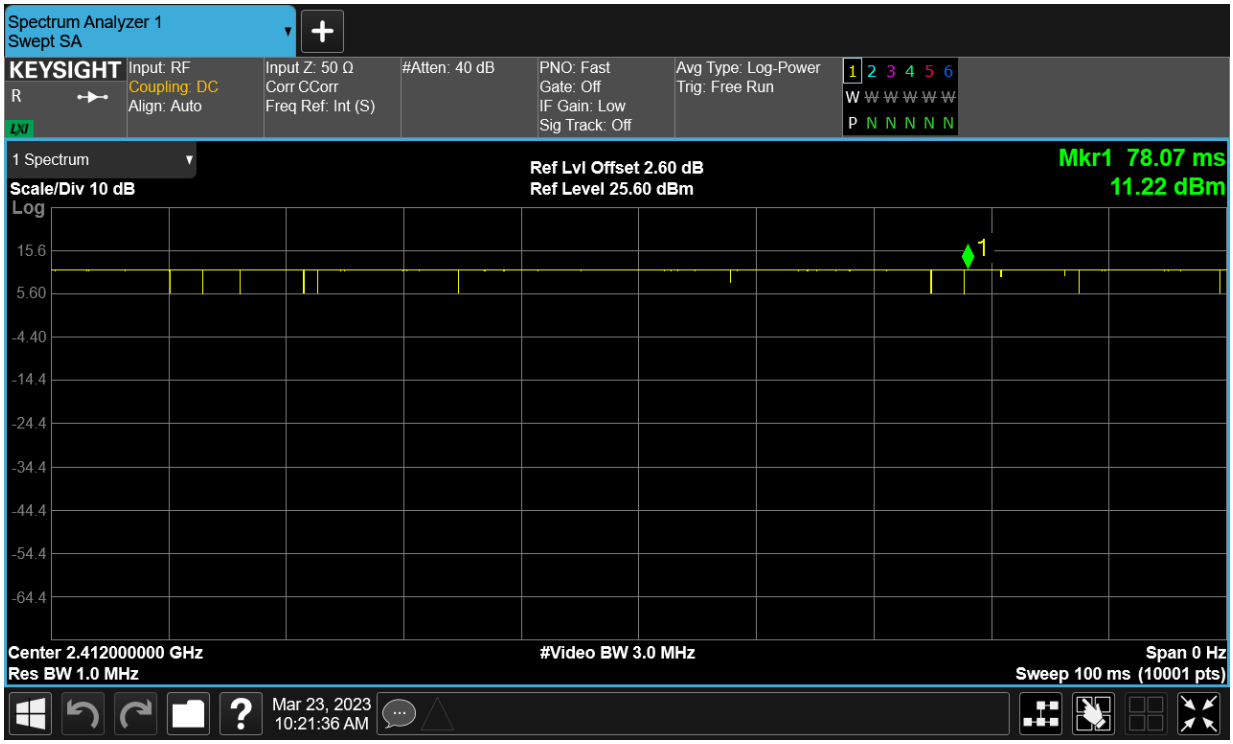
Test Data

Duty Cycle

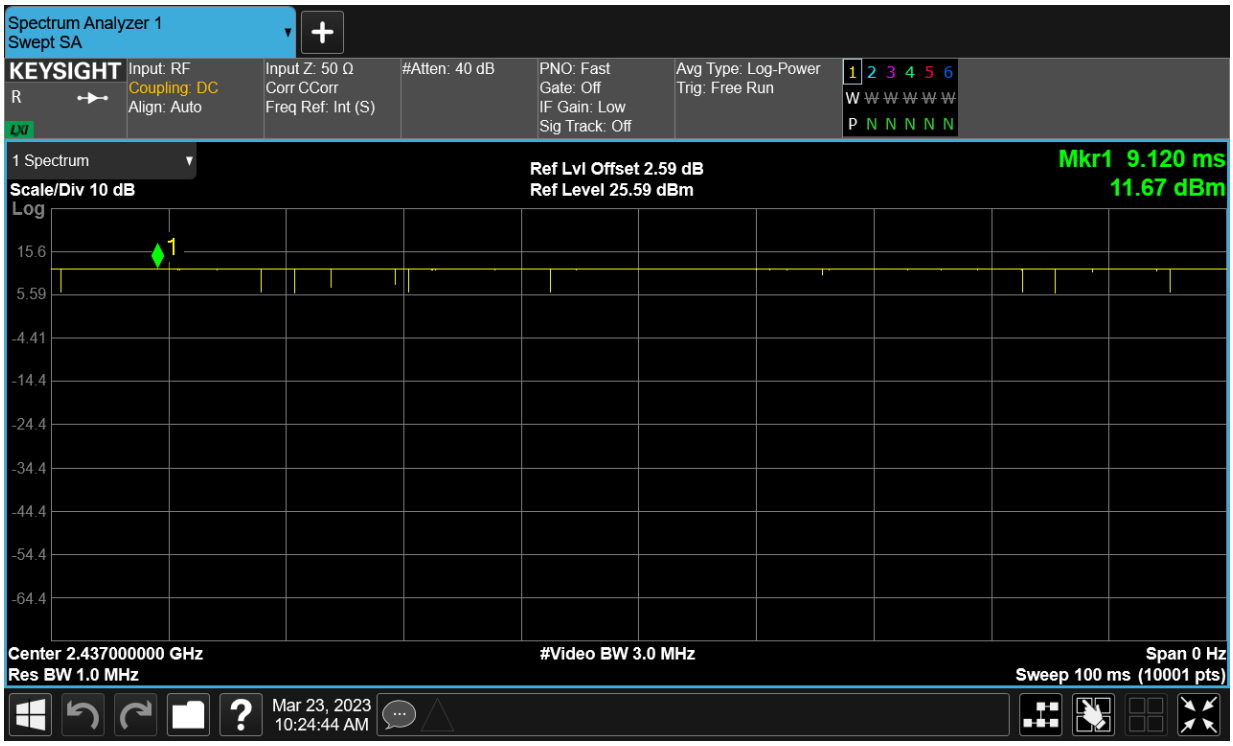
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	100	0
NVNT	b	2437	Ant1	100	0
NVNT	b	2462	Ant1	100	0
NVNT	g	2412	Ant1	100	0
NVNT	g	2437	Ant1	100	0
NVNT	g	2462	Ant1	100	0
NVNT	n20	2412	Ant1	100	0
NVNT	n20	2437	Ant1	100	0
NVNT	n20	2462	Ant1	100	0
NVNT	n40	2422	Ant1	100	0
NVNT	n40	2437	Ant1	100	0
NVNT	n40	2452	Ant1	100	0

Test Graphs

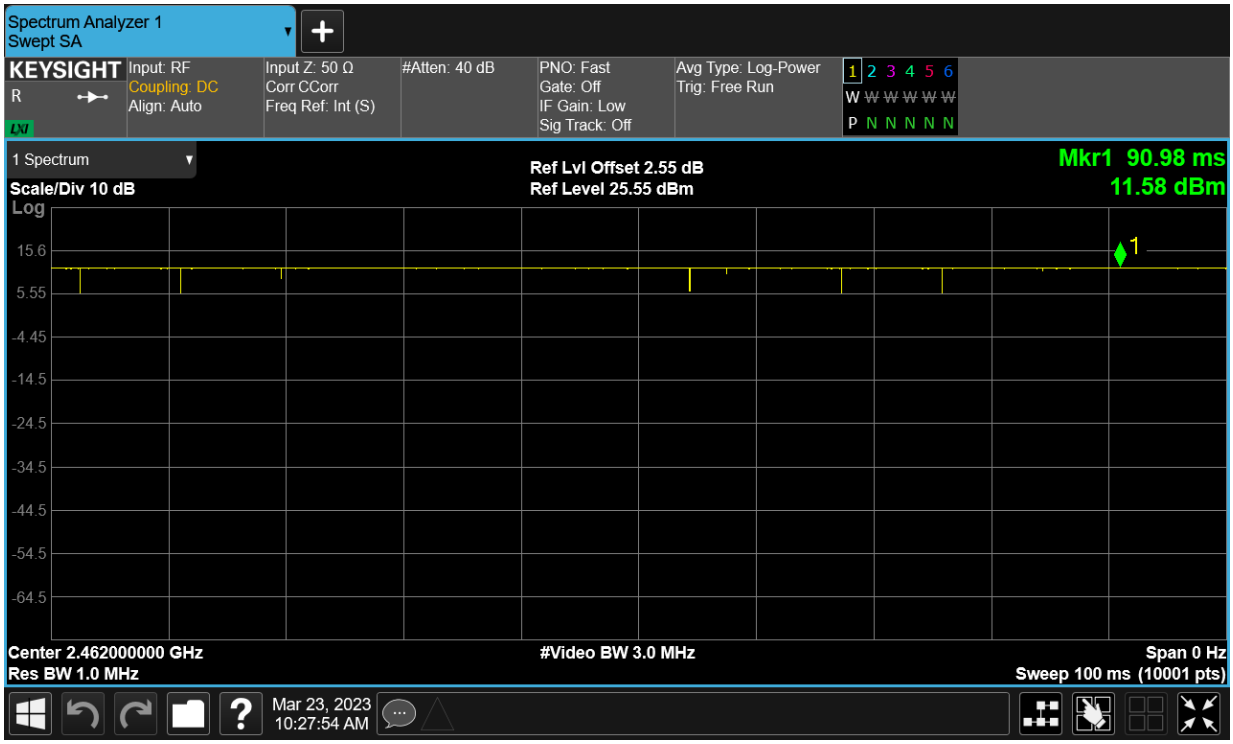
Duty Cycle NVNT b 2412MHz Ant1



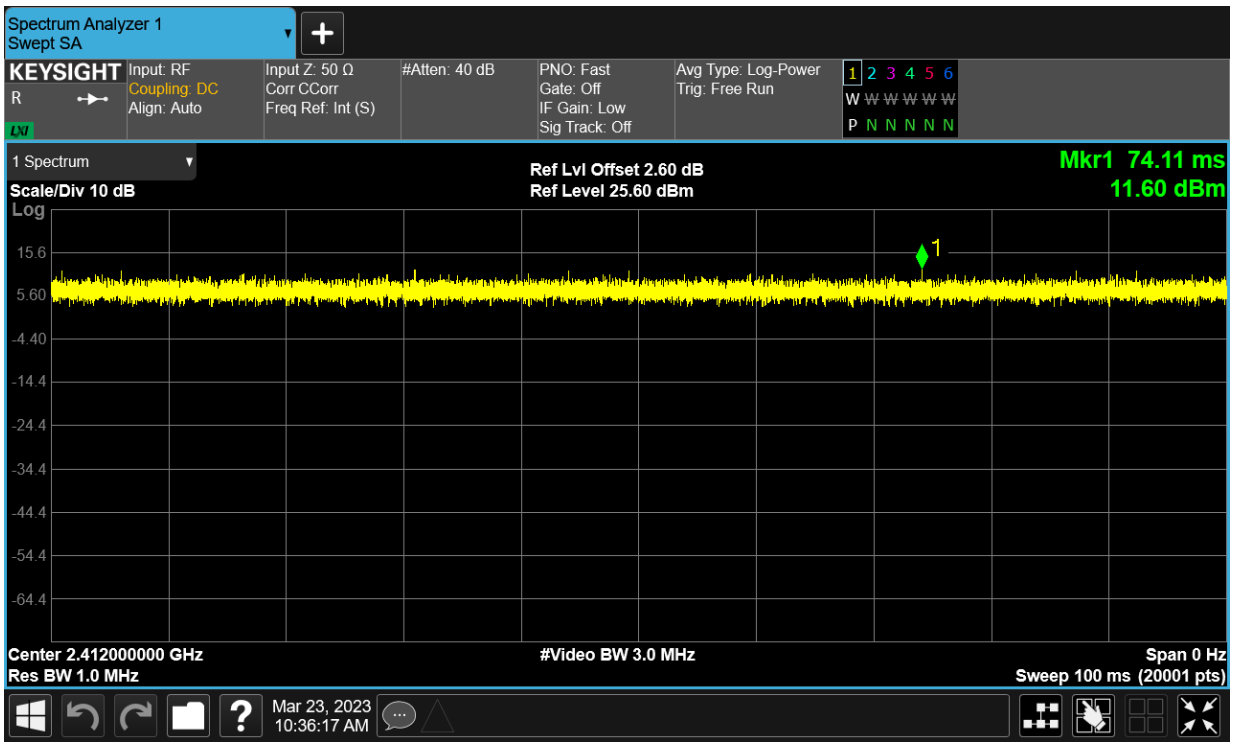
Duty Cycle NVNT b 2437MHz Ant1



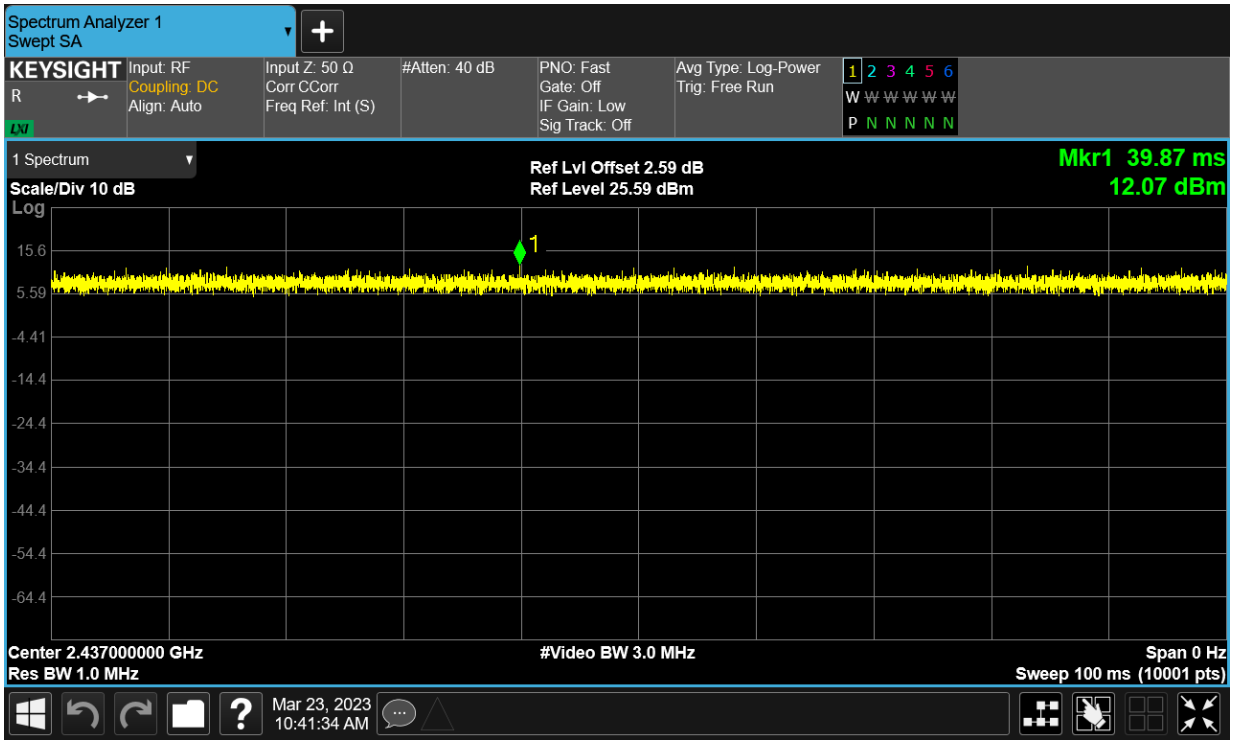
Duty Cycle NVNT b 2462MHz Ant1



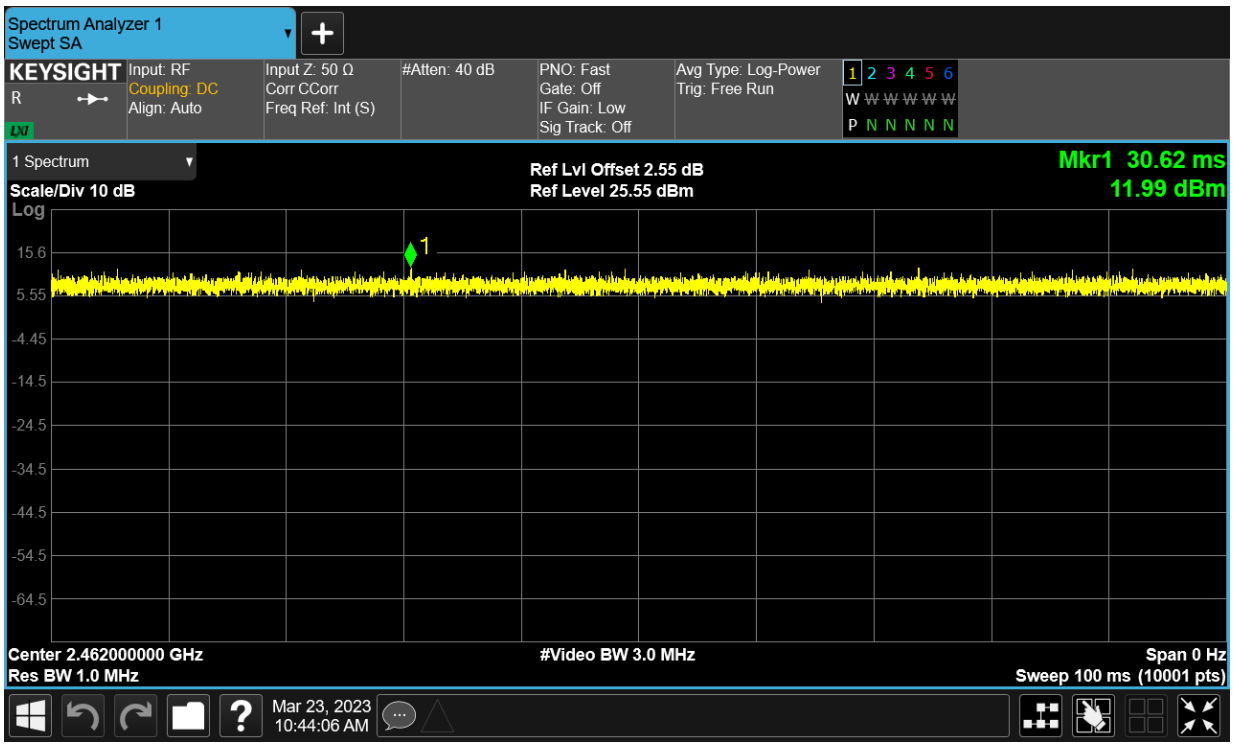
Duty Cycle NVNT g 2412MHz Ant1



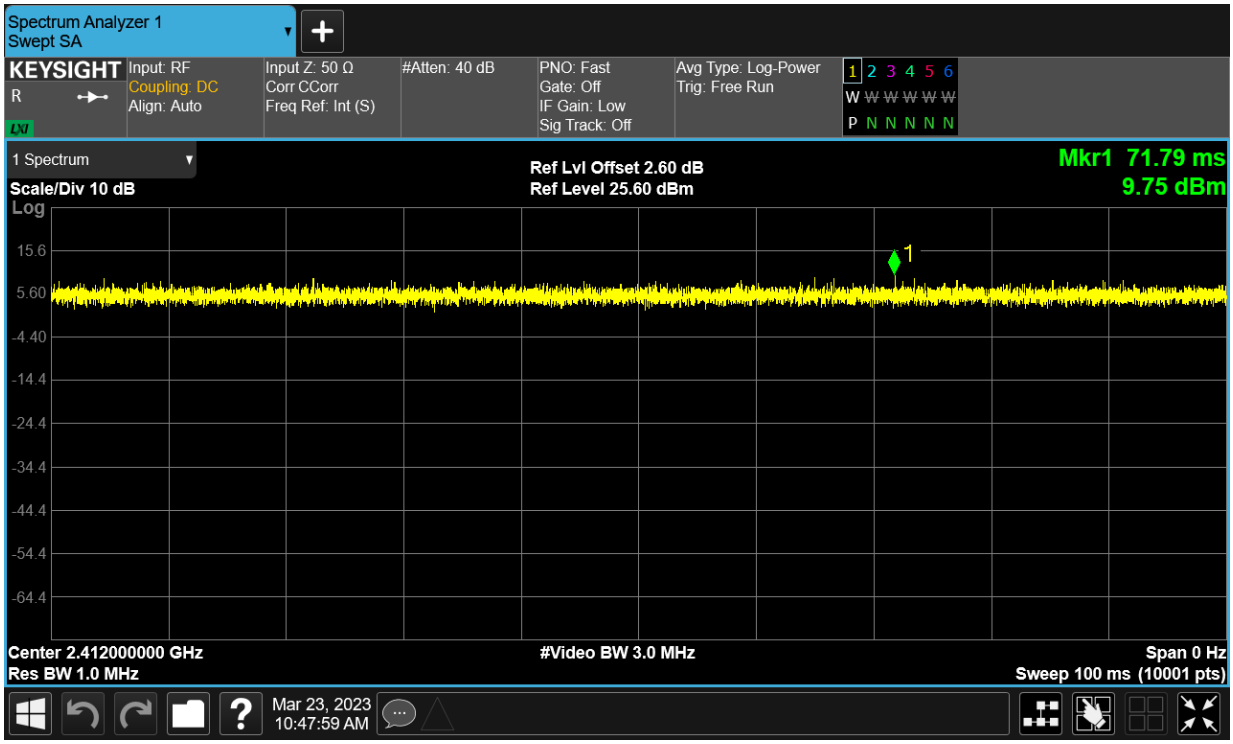
Duty Cycle NVNT g 2437MHz Ant1



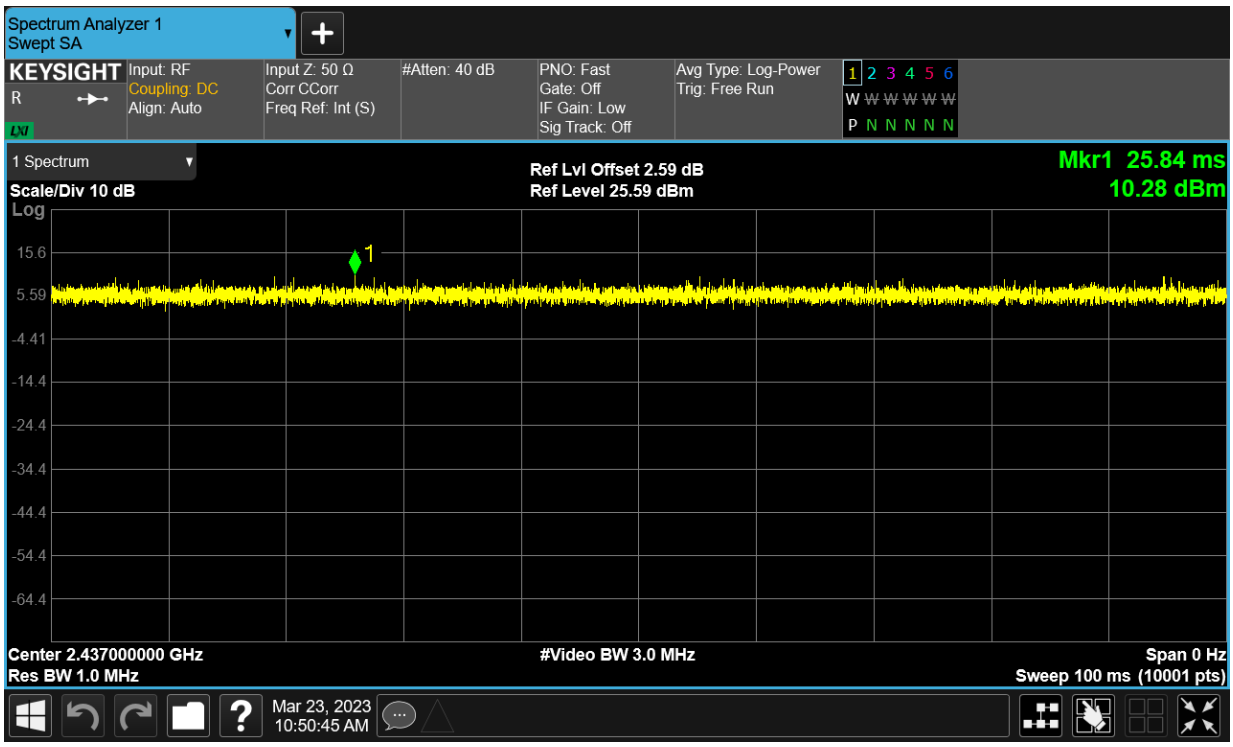
Duty Cycle NVNT g 2462MHz Ant1



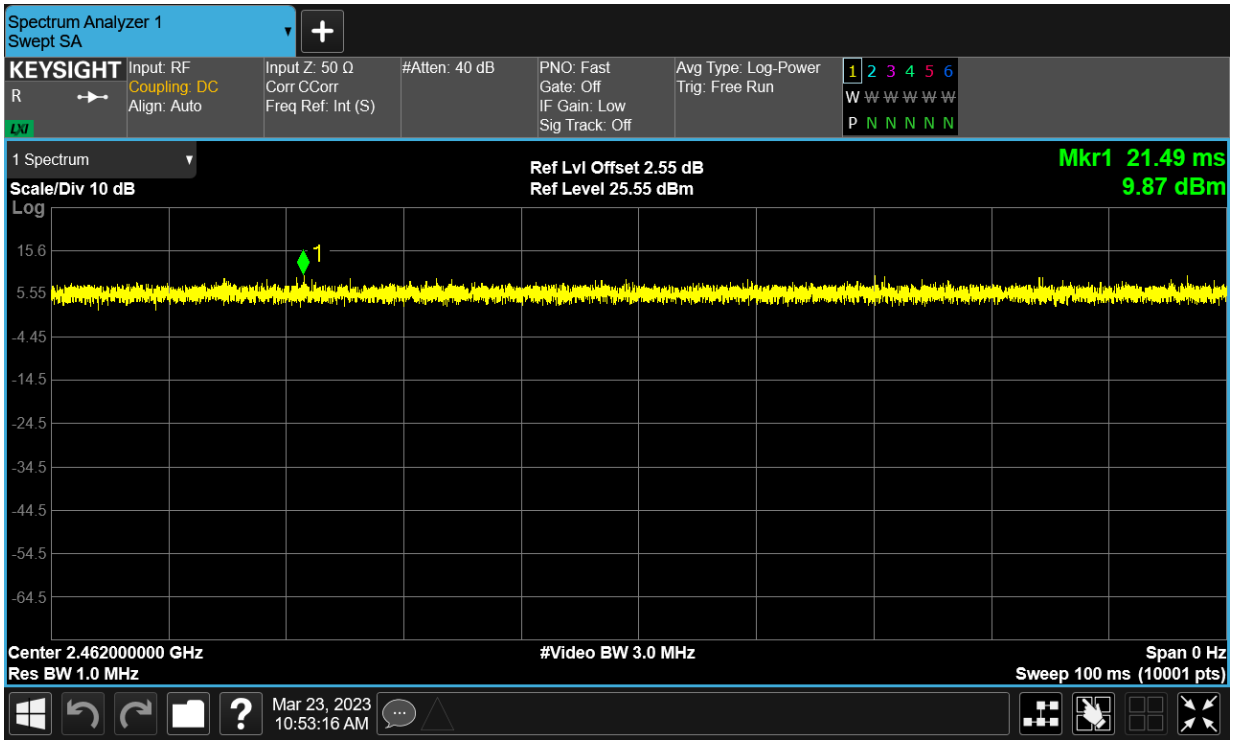
Duty Cycle NVNT n20 2412MHz Ant1



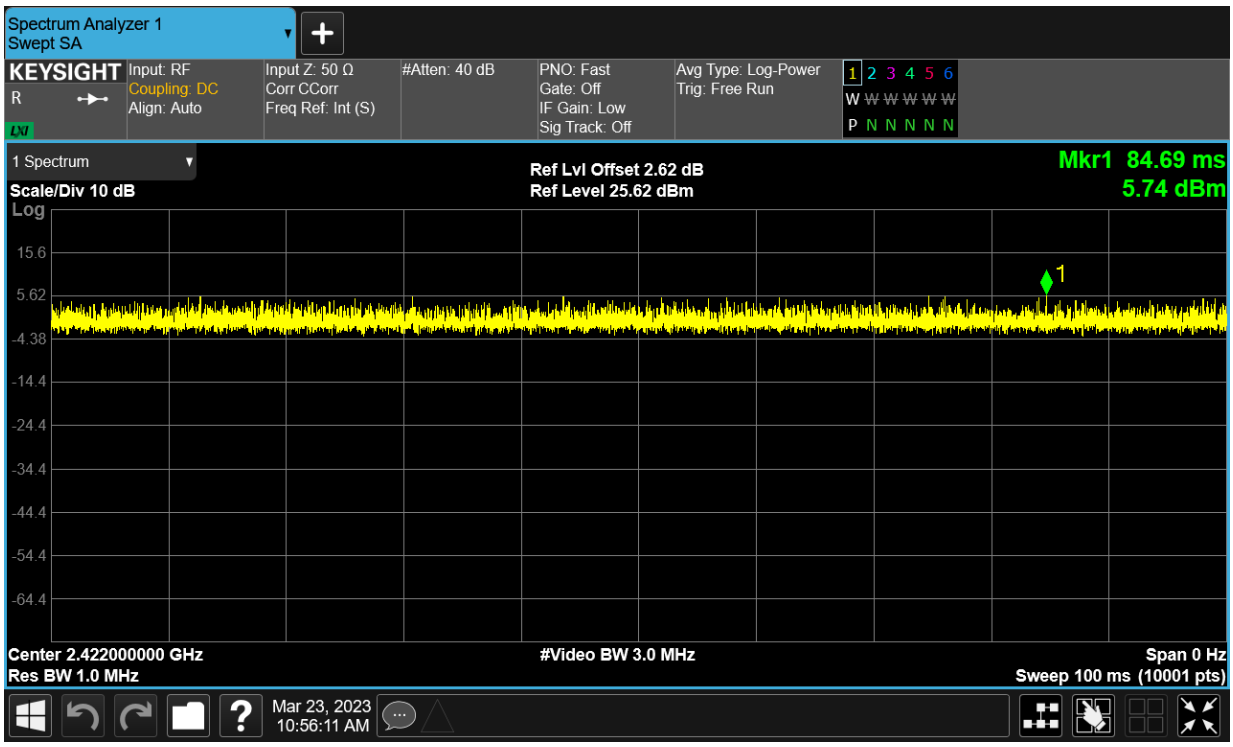
Duty Cycle NVNT n20 2437MHz Ant1



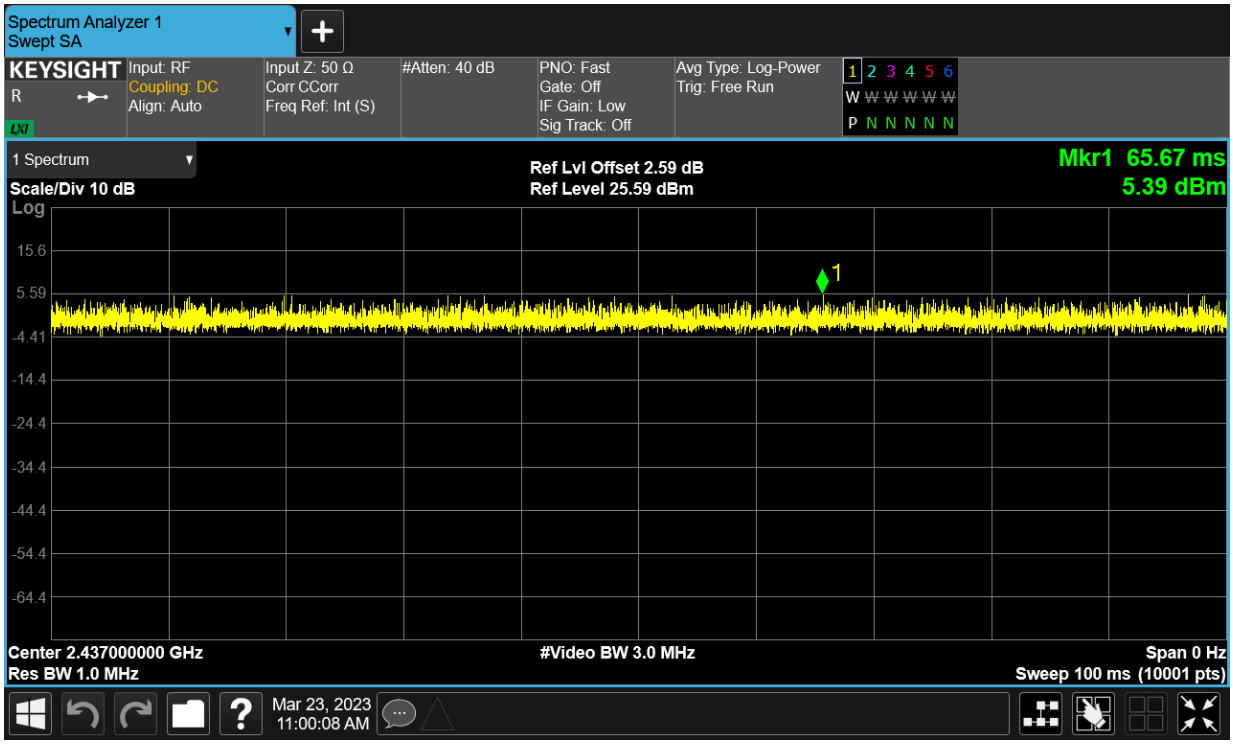
Duty Cycle NVNT n20 2462MHz Ant1



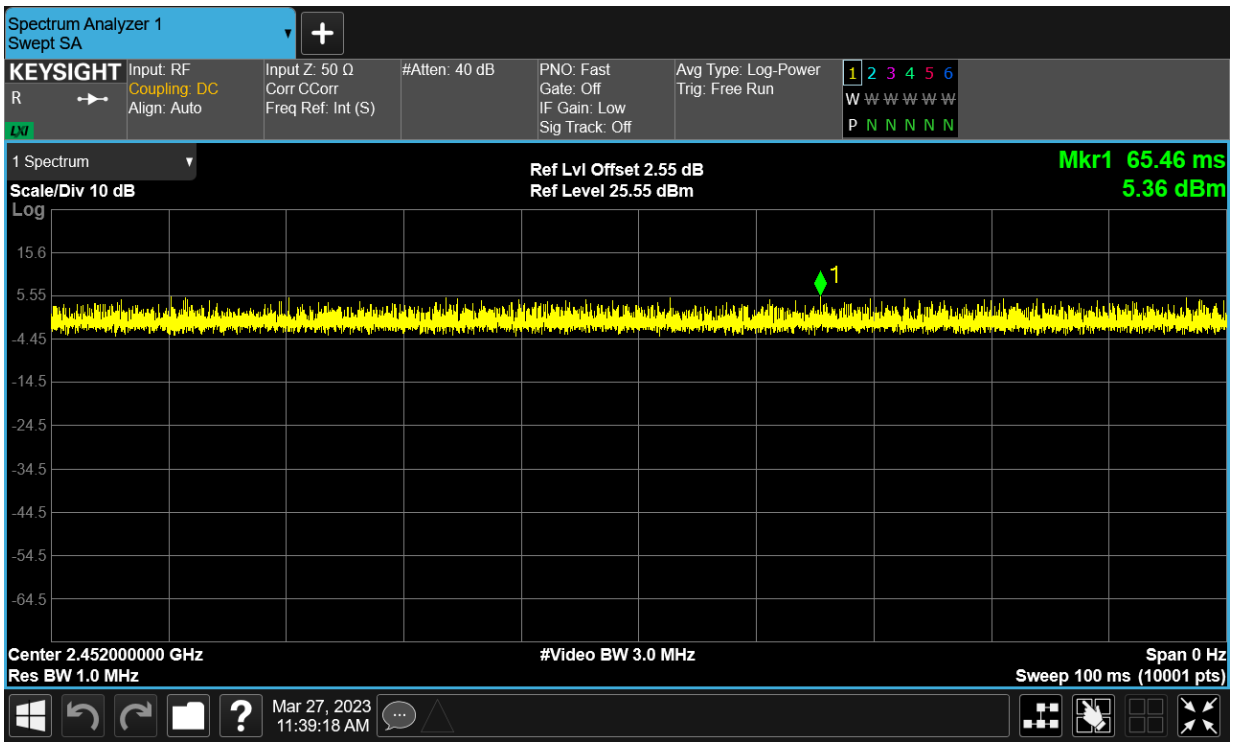
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



Maximum Conducted Output Power

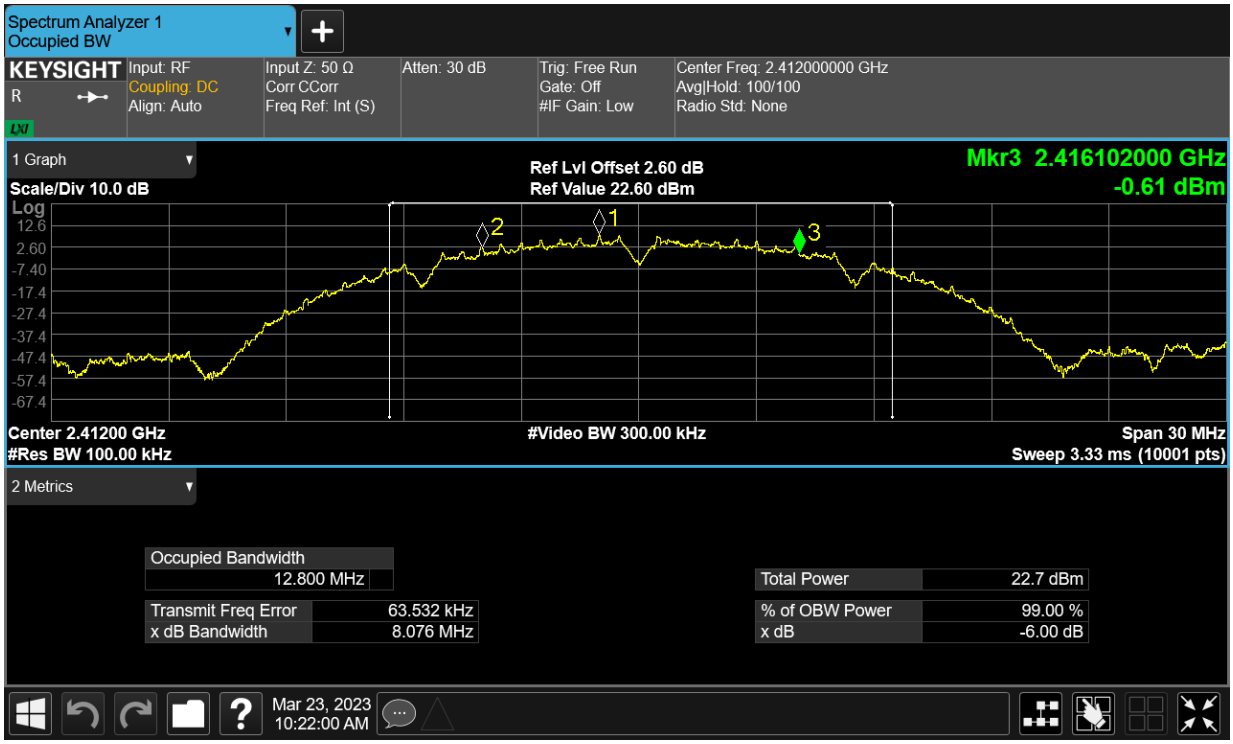
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.89	0	16.89	30	Pass
NVNT	b	2437	Ant1	16.33	0	16.33	30	Pass
NVNT	b	2462	Ant1	16.45	0	16.45	30	Pass
NVNT	g	2412	Ant1	14.57	0	14.57	30	Pass
NVNT	g	2437	Ant1	14.1	0	14.1	30	Pass
NVNT	g	2462	Ant1	14.19	0	14.19	30	Pass
NVNT	n20	2412	Ant1	12.54	0	12.54	30	Pass
NVNT	n20	2437	Ant1	12.09	0	12.09	30	Pass
NVNT	n20	2462	Ant1	12.03	0	12.03	30	Pass
NVNT	n40	2422	Ant1	12.85	0	12.85	30	Pass
NVNT	n40	2437	Ant1	12.26	0	12.26	30	Pass
NVNT	n40	2452	Ant1	12.03	0	12.03	30	Pass

-6dB Bandwidth

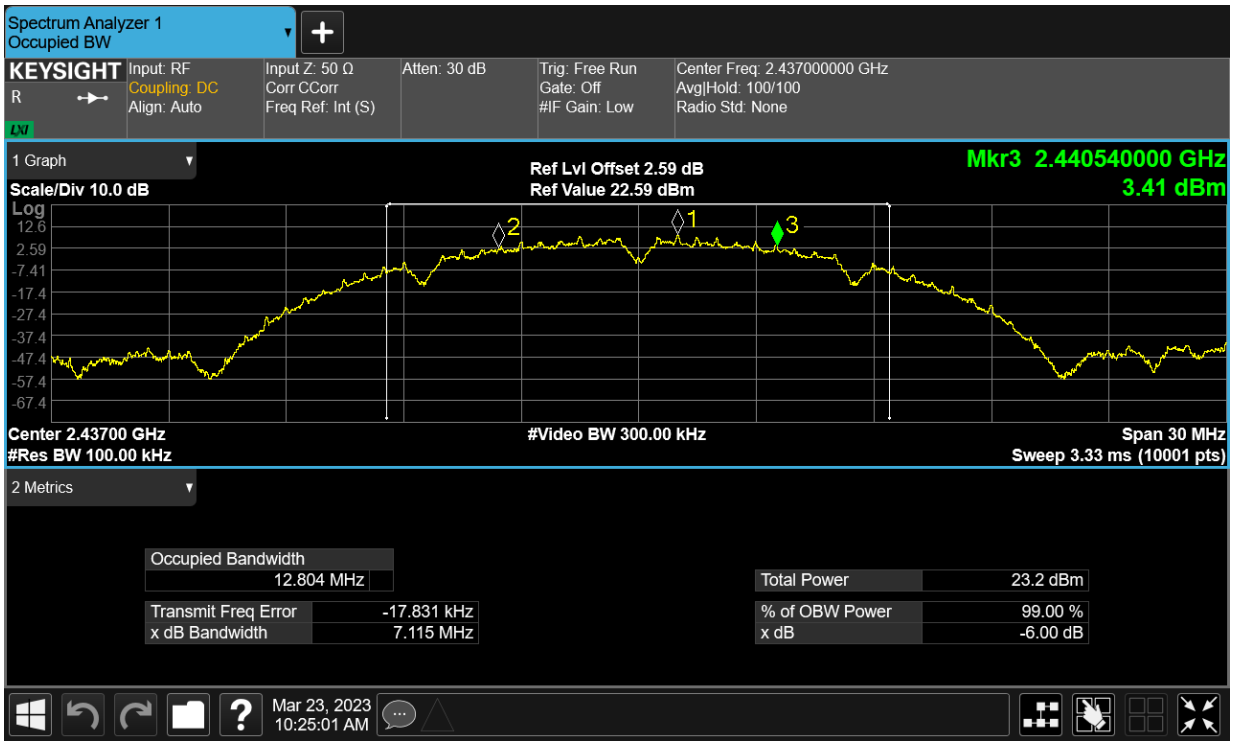
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	b	2412	Ant1	8.076	0.5	Pass
NVNT	b	2437	Ant1	7.115	0.5	Pass
NVNT	b	2462	Ant1	8.072	0.5	Pass
NVNT	g	2412	Ant1	16.359	0.5	Pass
NVNT	g	2437	Ant1	16.332	0.5	Pass
NVNT	g	2462	Ant1	16.352	0.5	Pass
NVNT	n20	2412	Ant1	17.594	0.5	Pass
NVNT	n20	2437	Ant1	17.599	0.5	Pass
NVNT	n20	2462	Ant1	17.591	0.5	Pass
NVNT	n40	2422	Ant1	35.961	0.5	Pass
NVNT	n40	2437	Ant1	36.028	0.5	Pass
NVNT	n40	2452	Ant1	36.317	0.5	Pass

Test Graphs

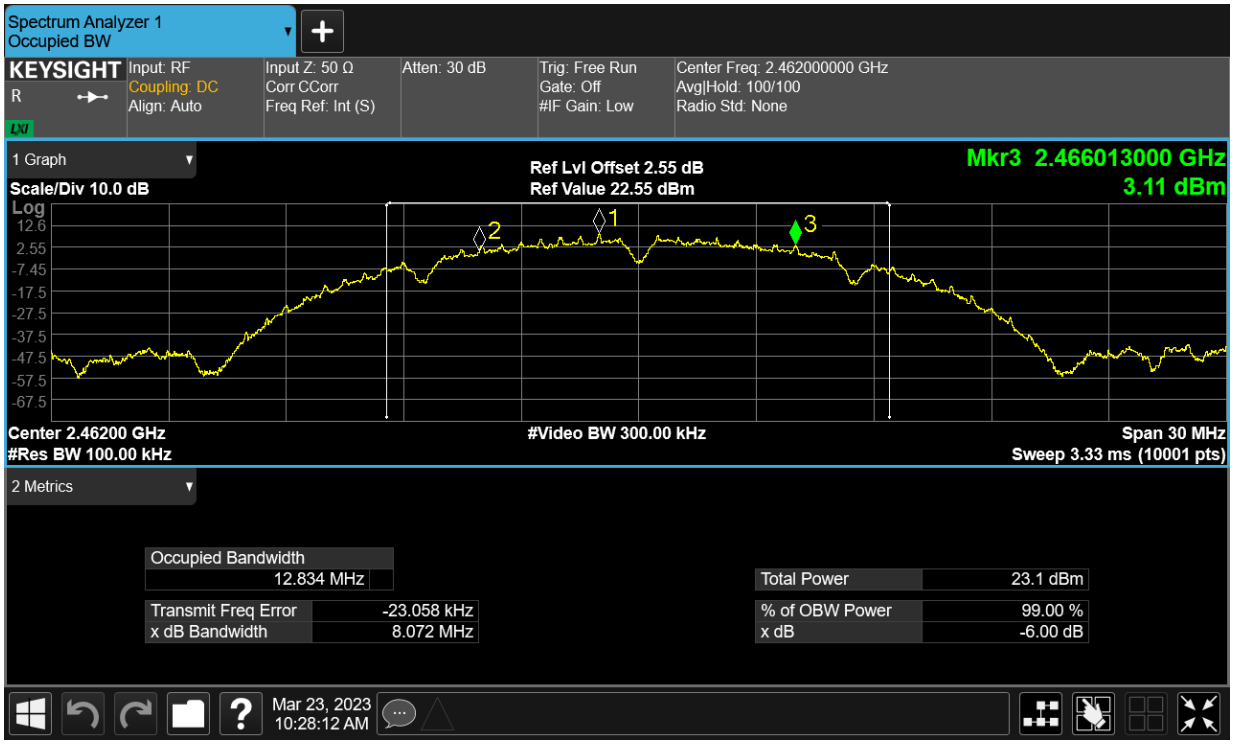
-6dB Bandwidth NVNT b 2412MHz Ant1



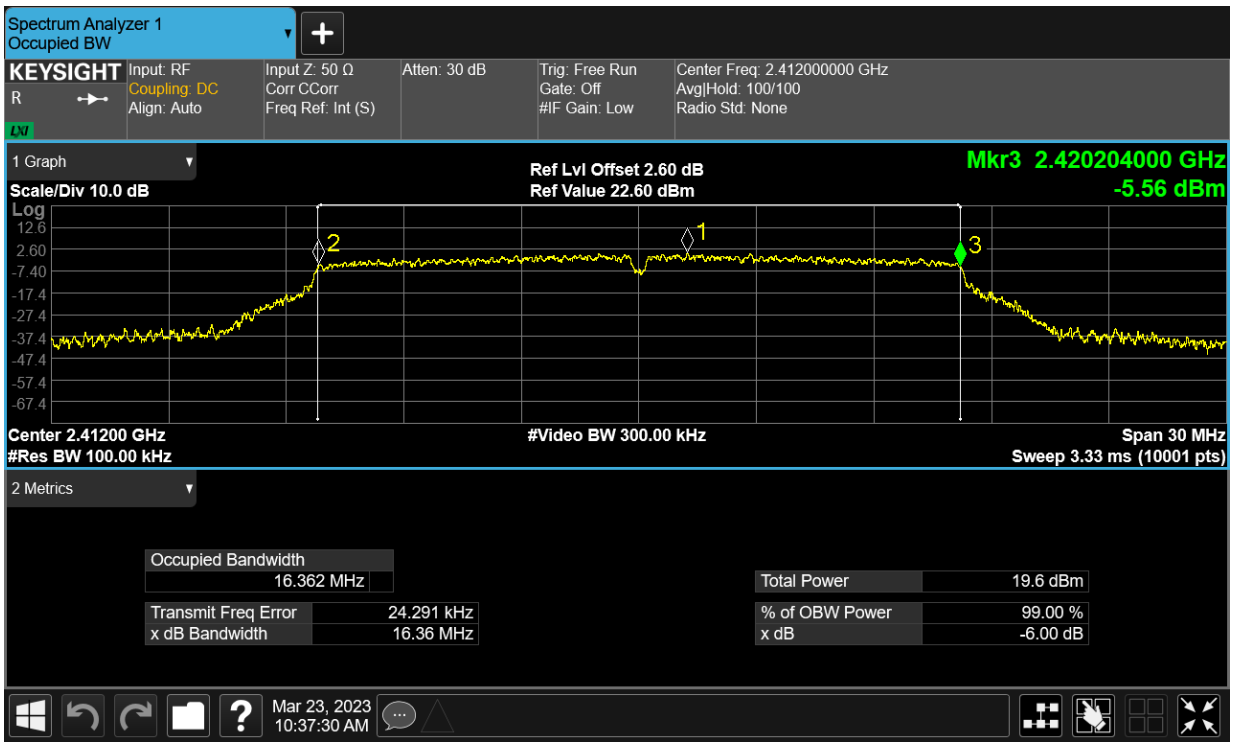
-6dB Bandwidth NVNT b 2437MHz Ant1



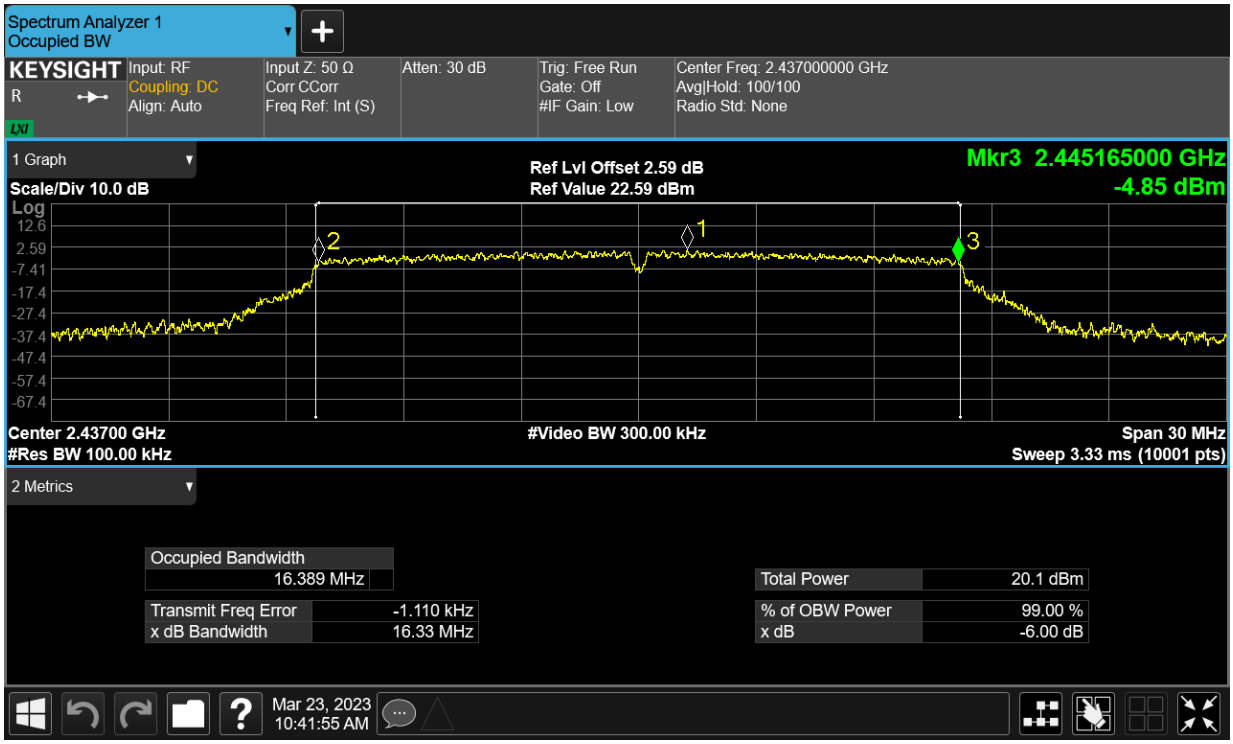
-6dB Bandwidth NVNT b 2462MHz Ant1



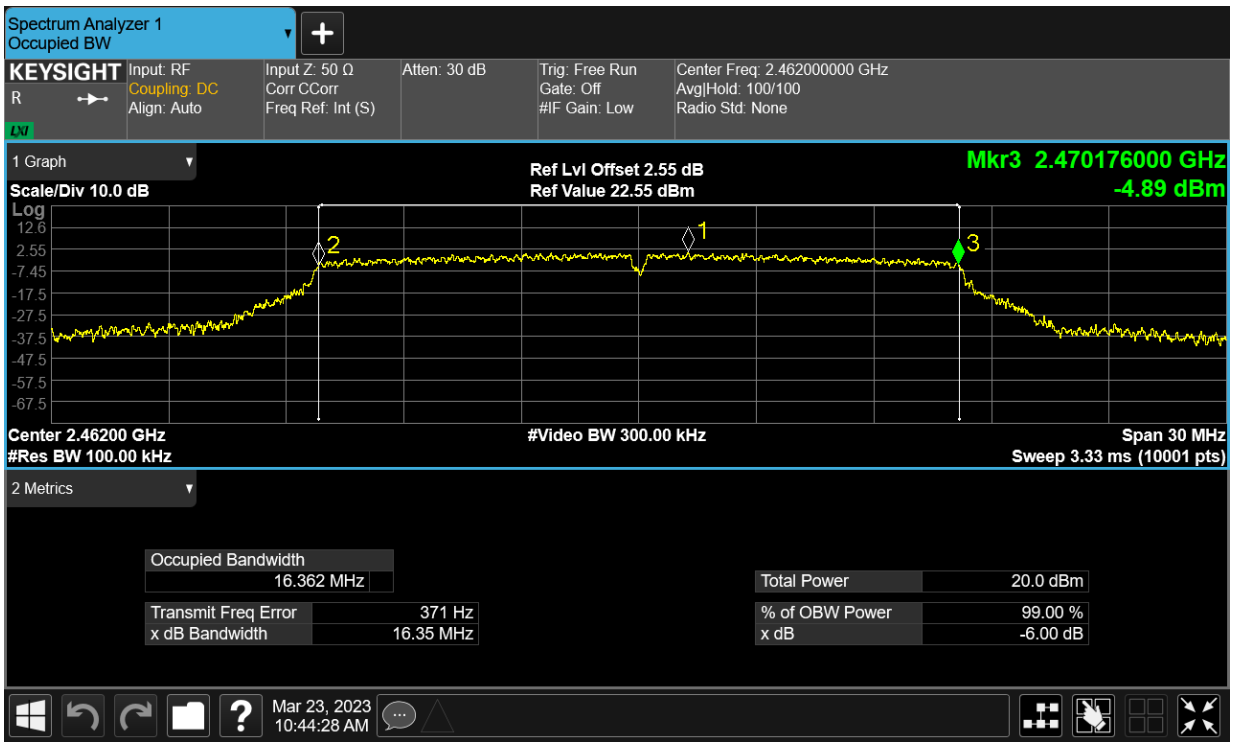
-6dB Bandwidth NVNT g 2412MHz Ant1



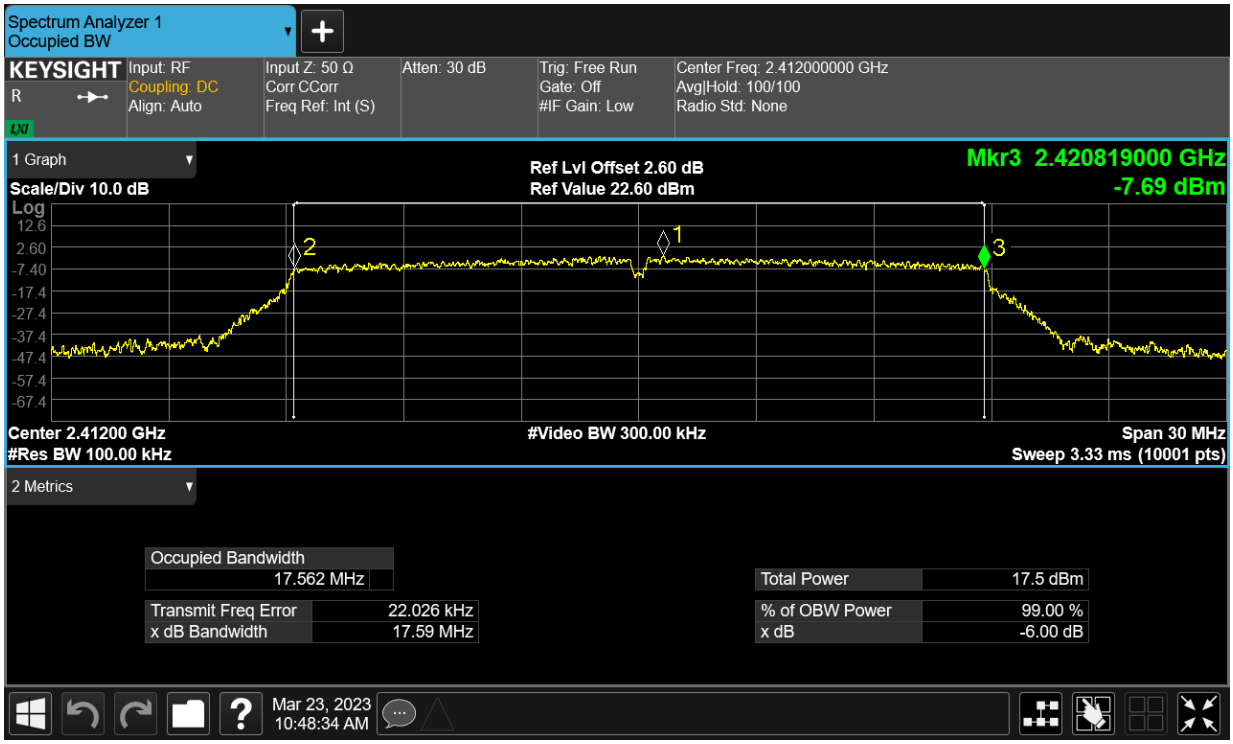
-6dB Bandwidth NVNT g 2437MHz Ant1



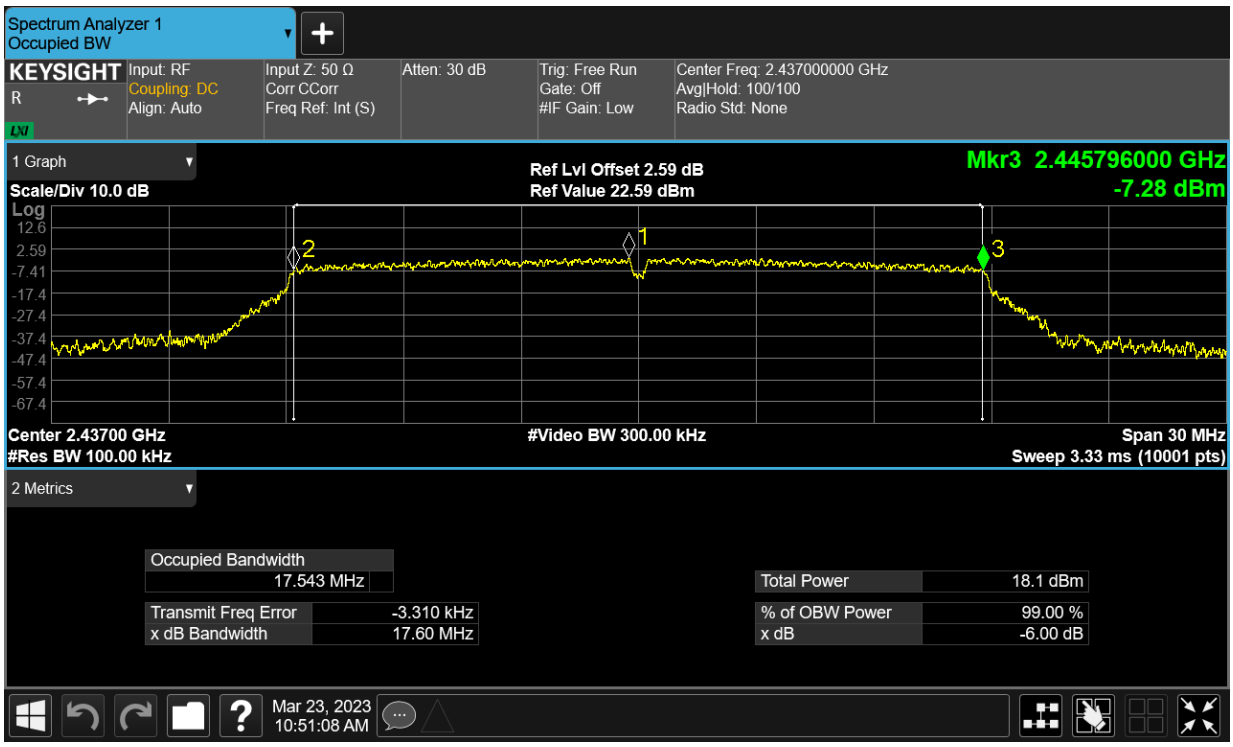
-6dB Bandwidth NVNT g 2462MHz Ant1



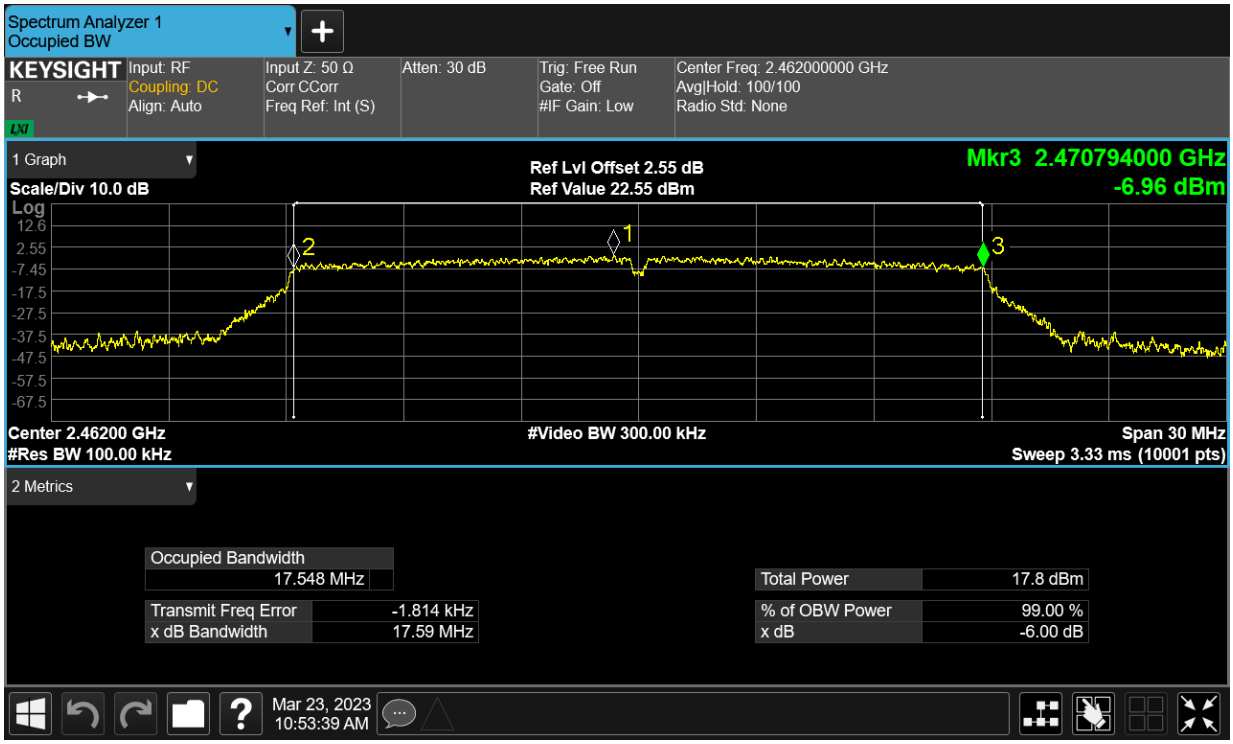
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

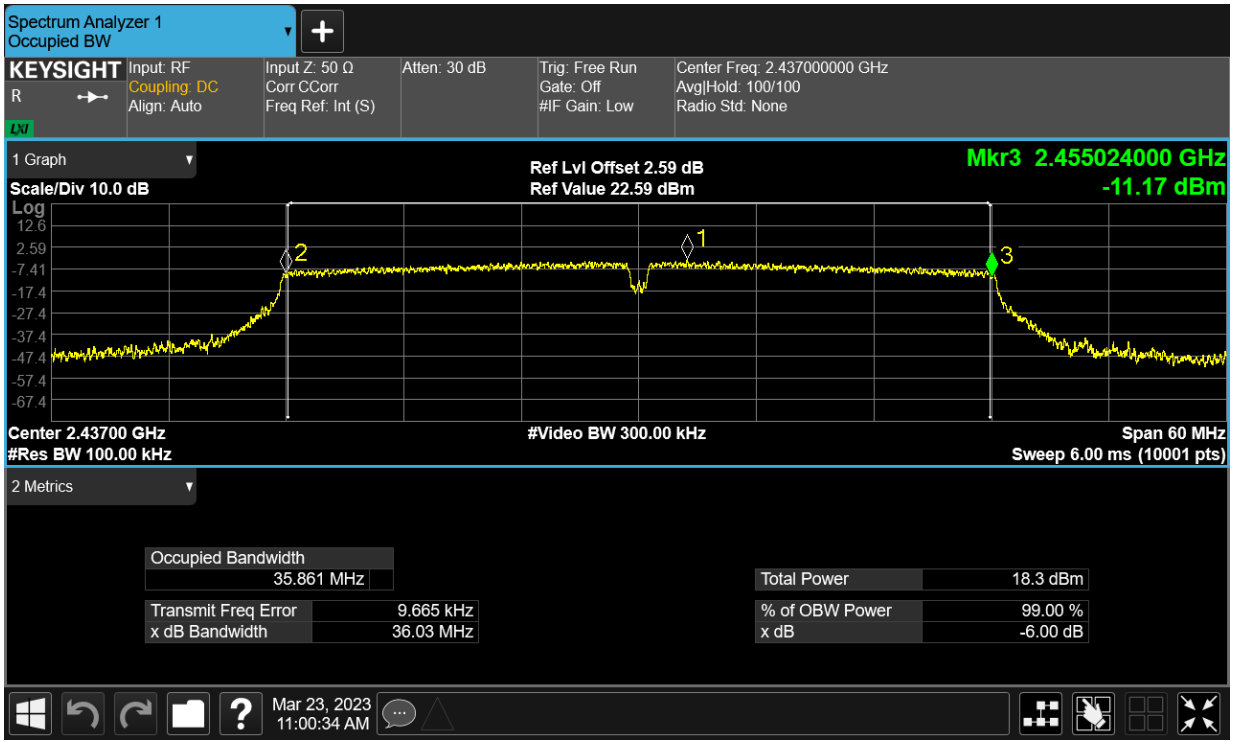


-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1

-6dB Bandwidth NVNT n40 2437MHz Ant1



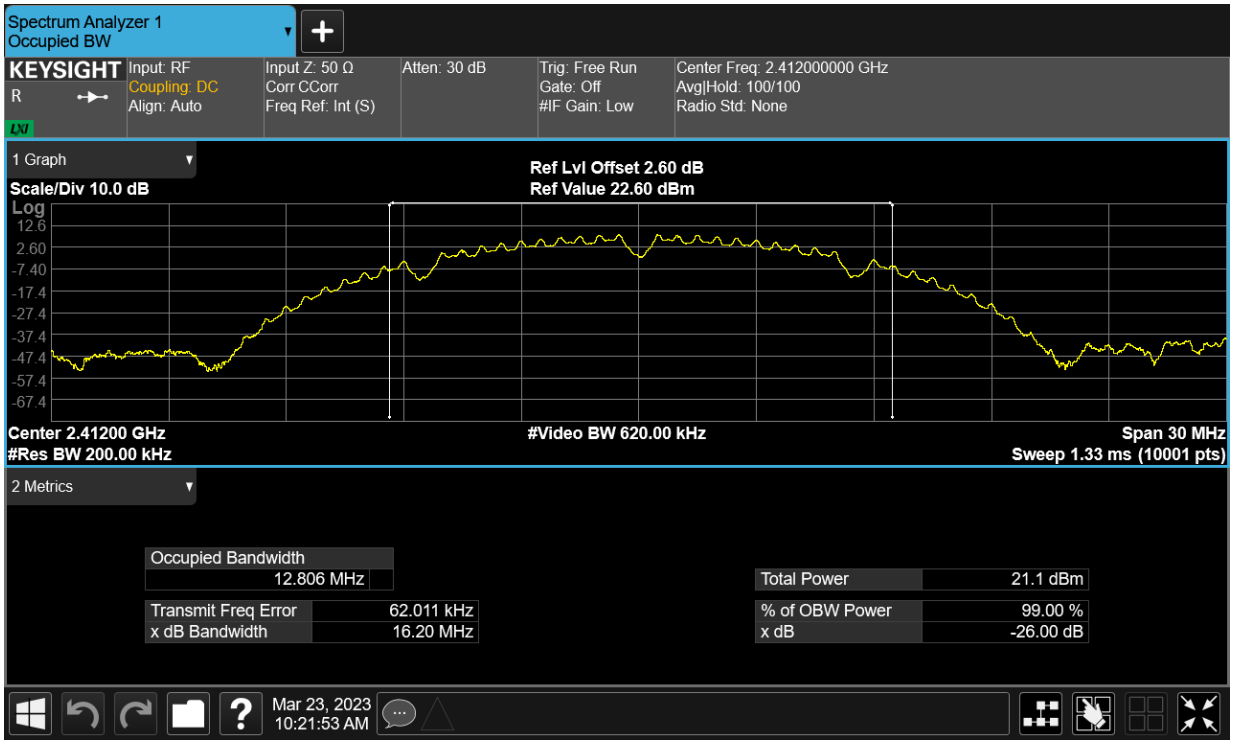
-6dB Bandwidth NVNT n40 2452MHz Ant1

Occupied Channel Bandwidth

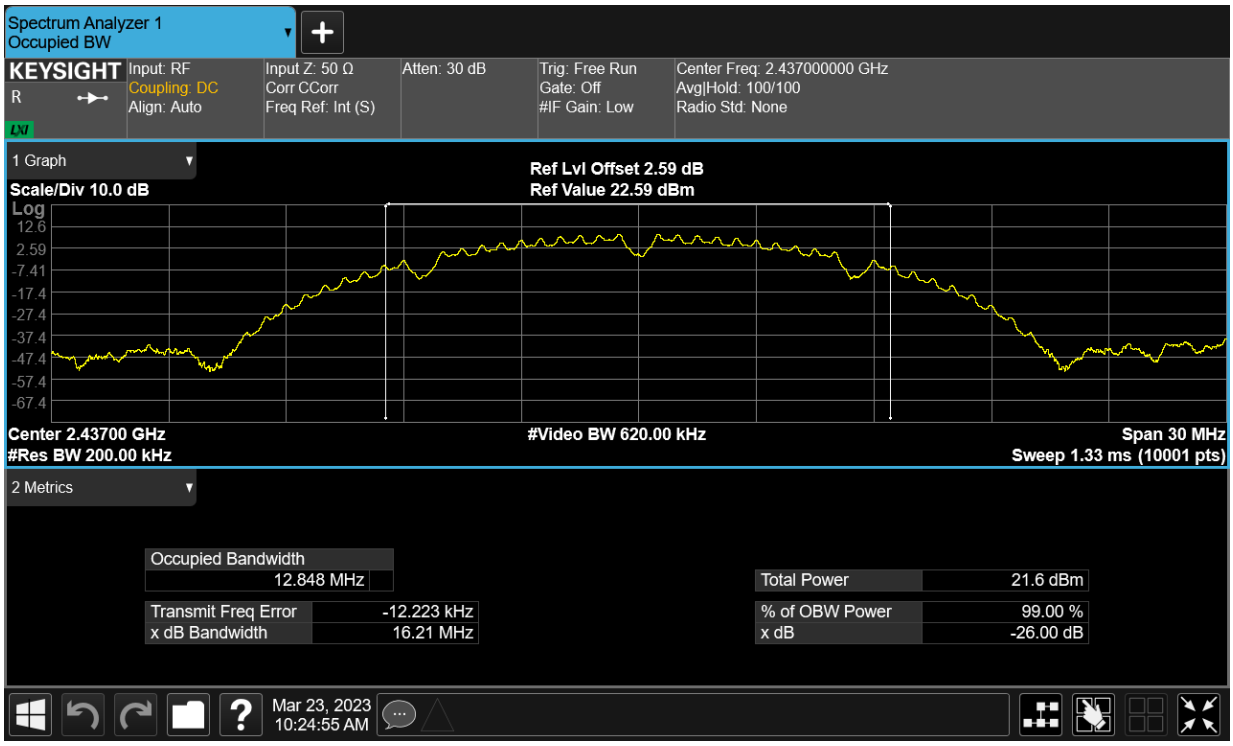
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.806
NVNT	b	2437	Ant1	12.848
NVNT	b	2462	Ant1	12.858
NVNT	g	2412	Ant1	16.446
NVNT	g	2437	Ant1	16.45
NVNT	g	2462	Ant1	16.425
NVNT	n20	2412	Ant1	17.577
NVNT	n20	2437	Ant1	17.578
NVNT	n20	2462	Ant1	17.576
NVNT	n40	2422	Ant1	35.901
NVNT	n40	2437	Ant1	36.002
NVNT	n40	2452	Ant1	35.956

Test Graphs

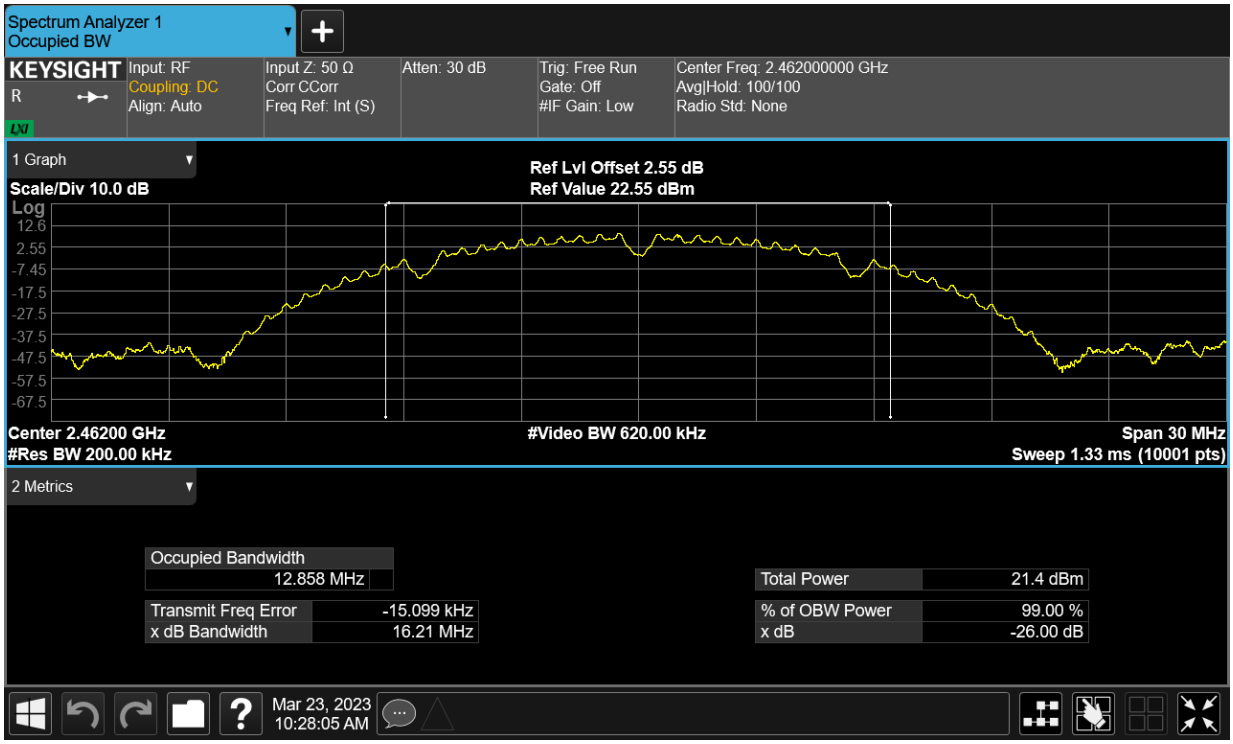
OBW NVNT b 2412MHz Ant1



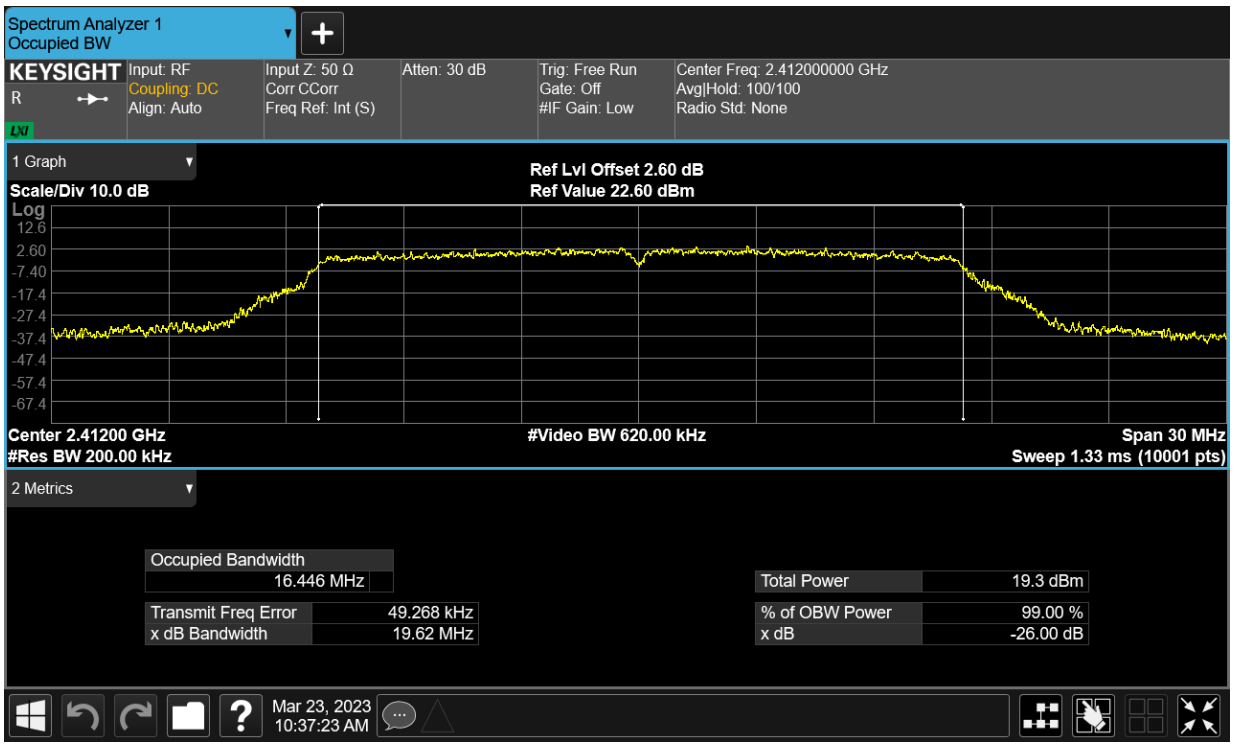
OBW NVNT b 2437MHz Ant1



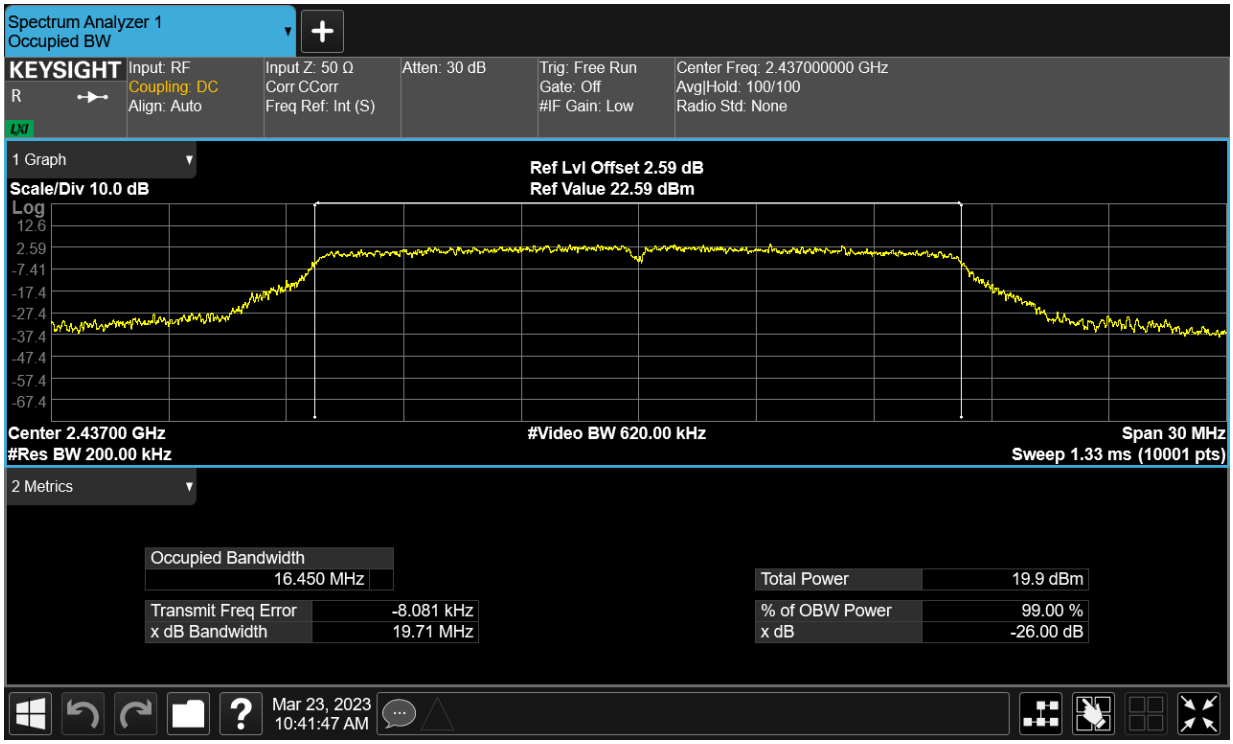
OBW NVNT b 2462MHz Ant1



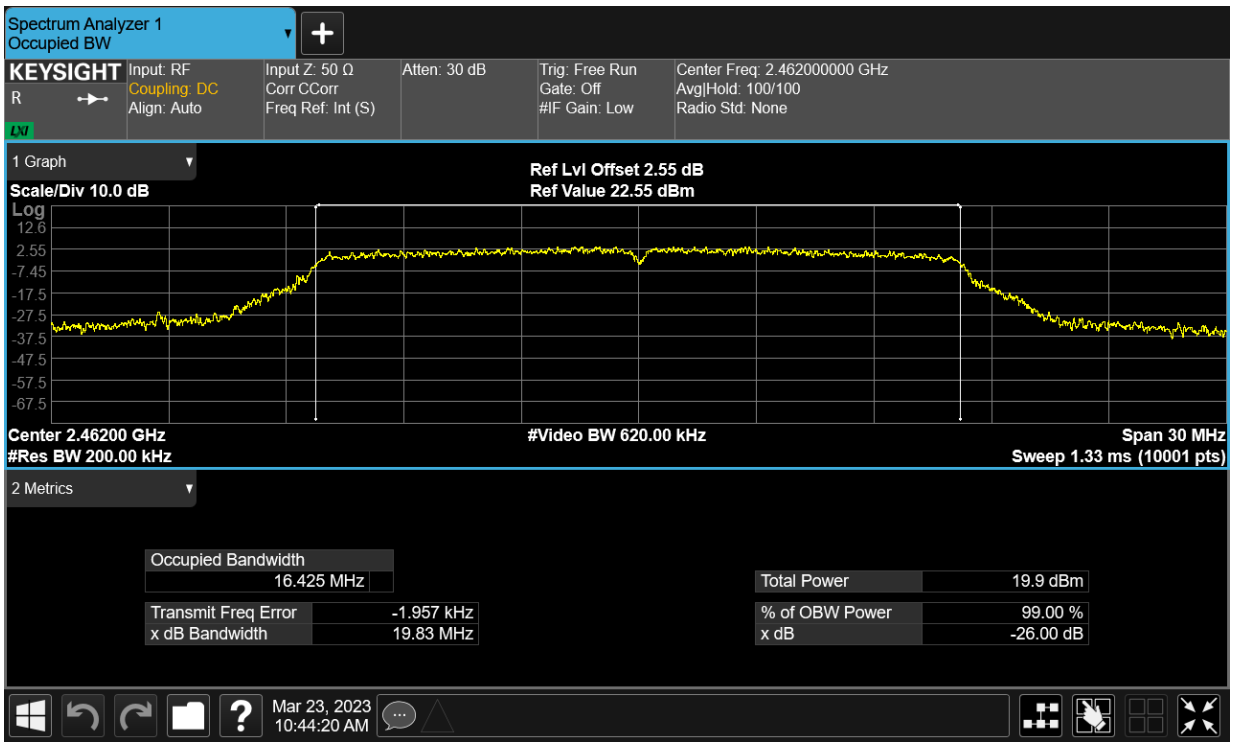
OBW NVNT g 2412MHz Ant1



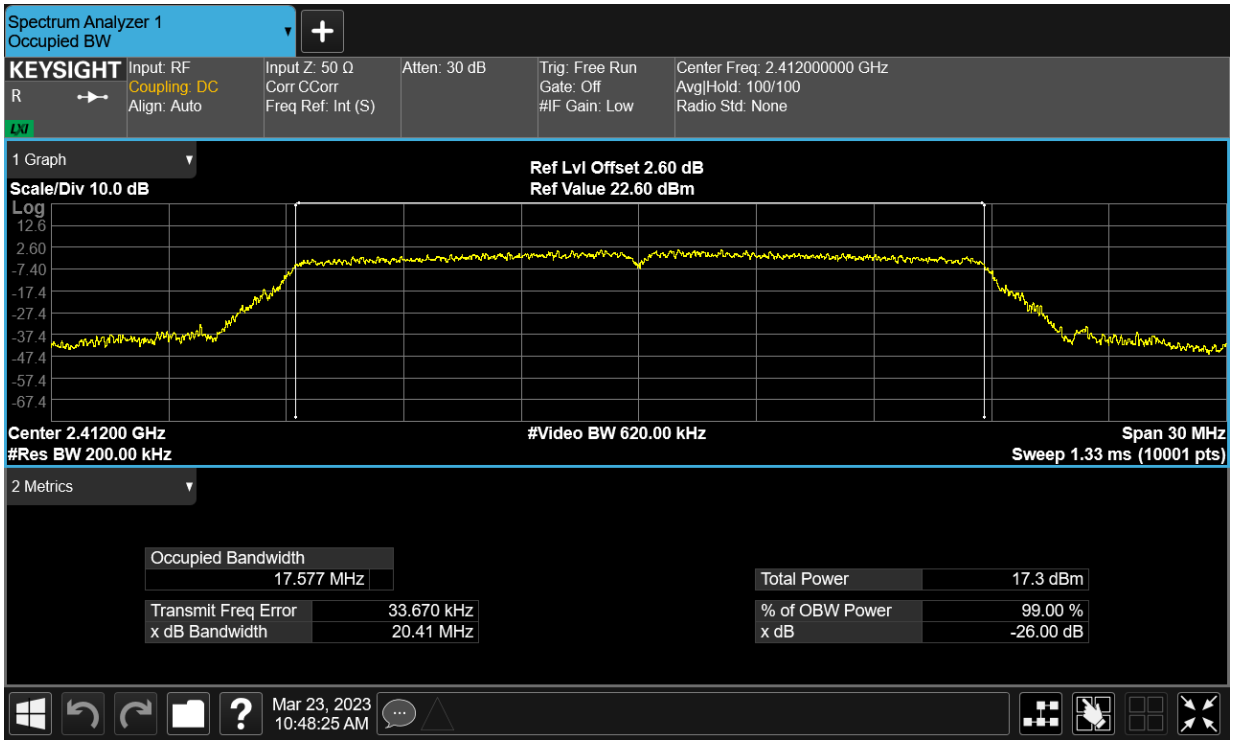
OBW NVNT g 2437MHz Ant1



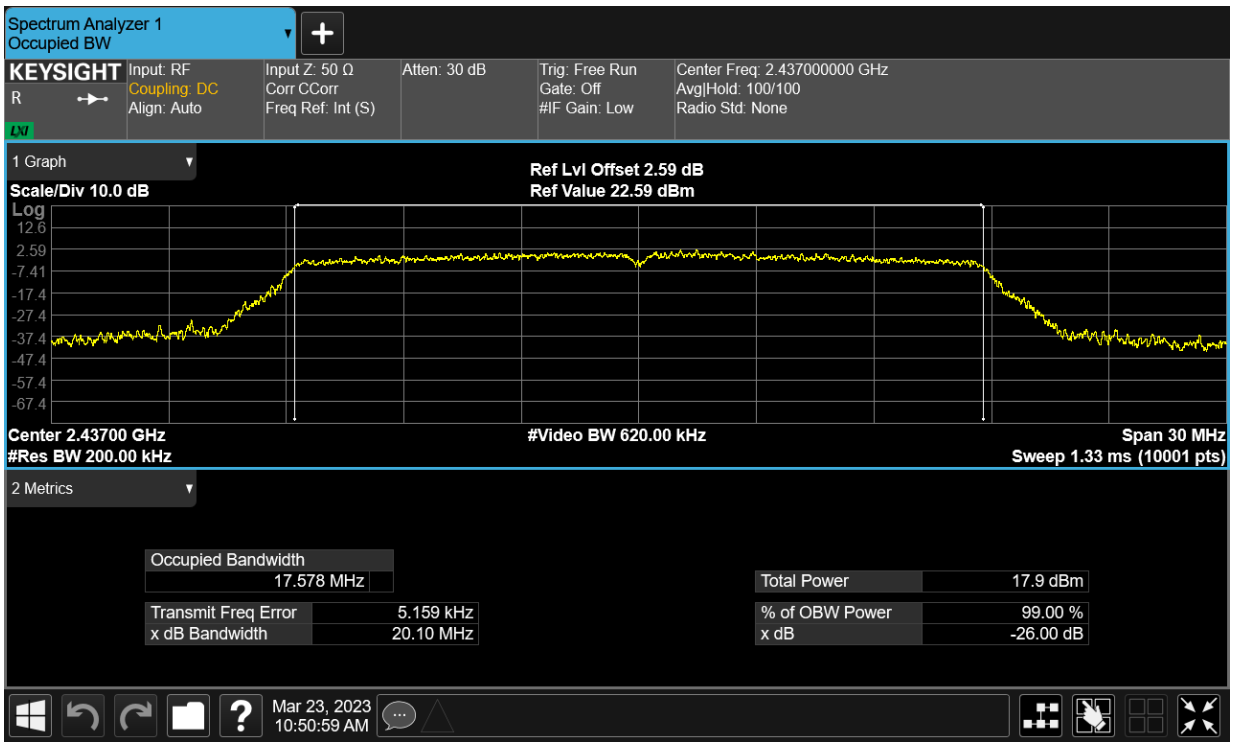
OBW NVNT g 2462MHz Ant1



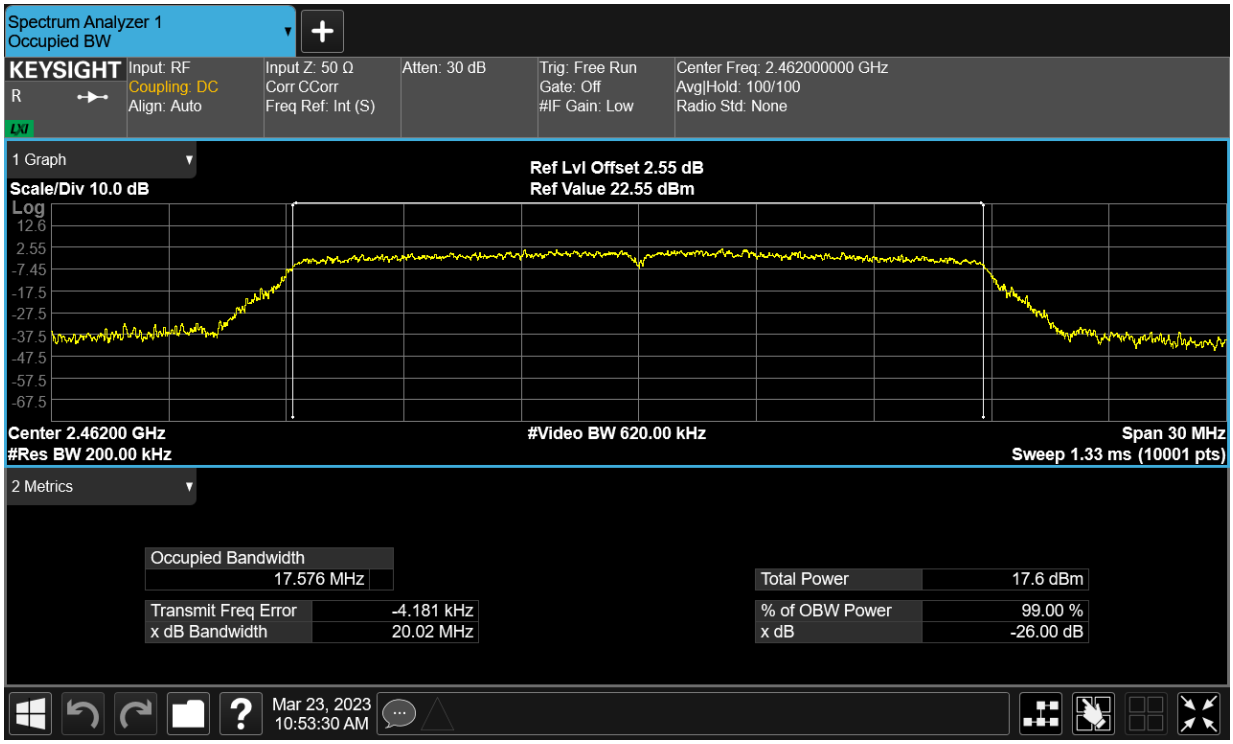
OBW NVNT n20 2412MHz Ant1



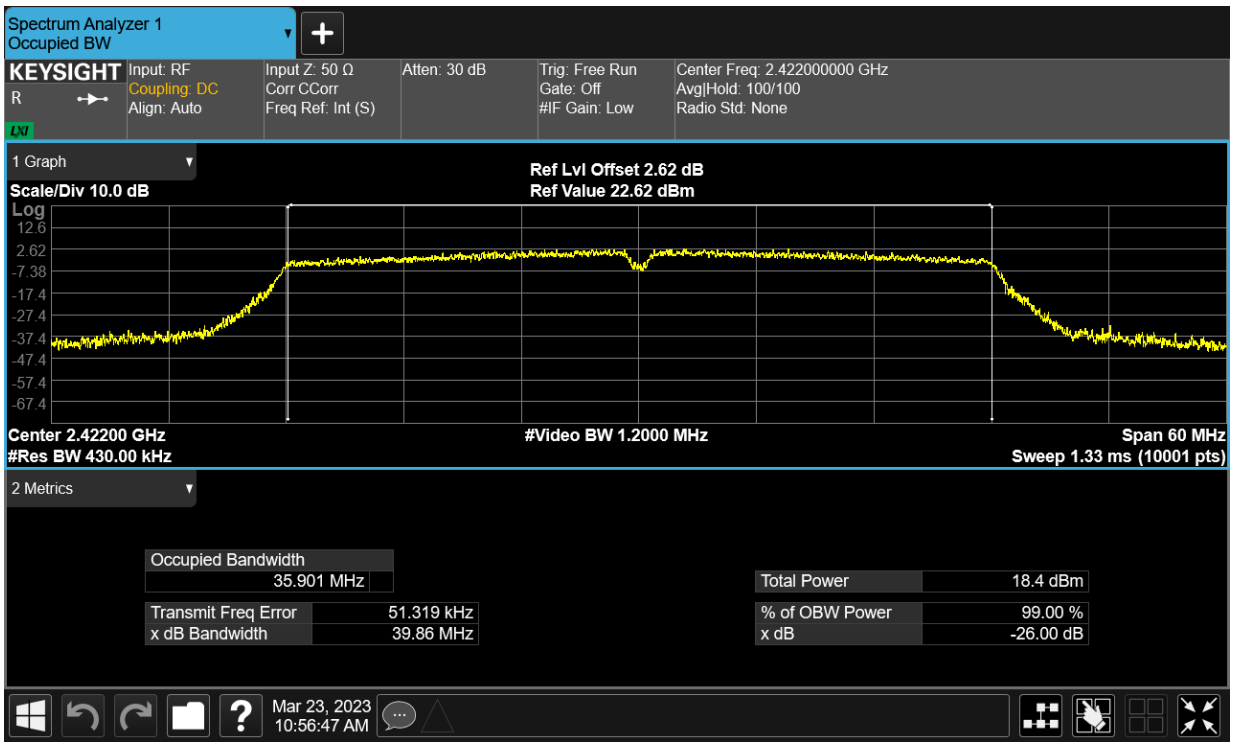
OBW NVNT n20 2437MHz Ant1



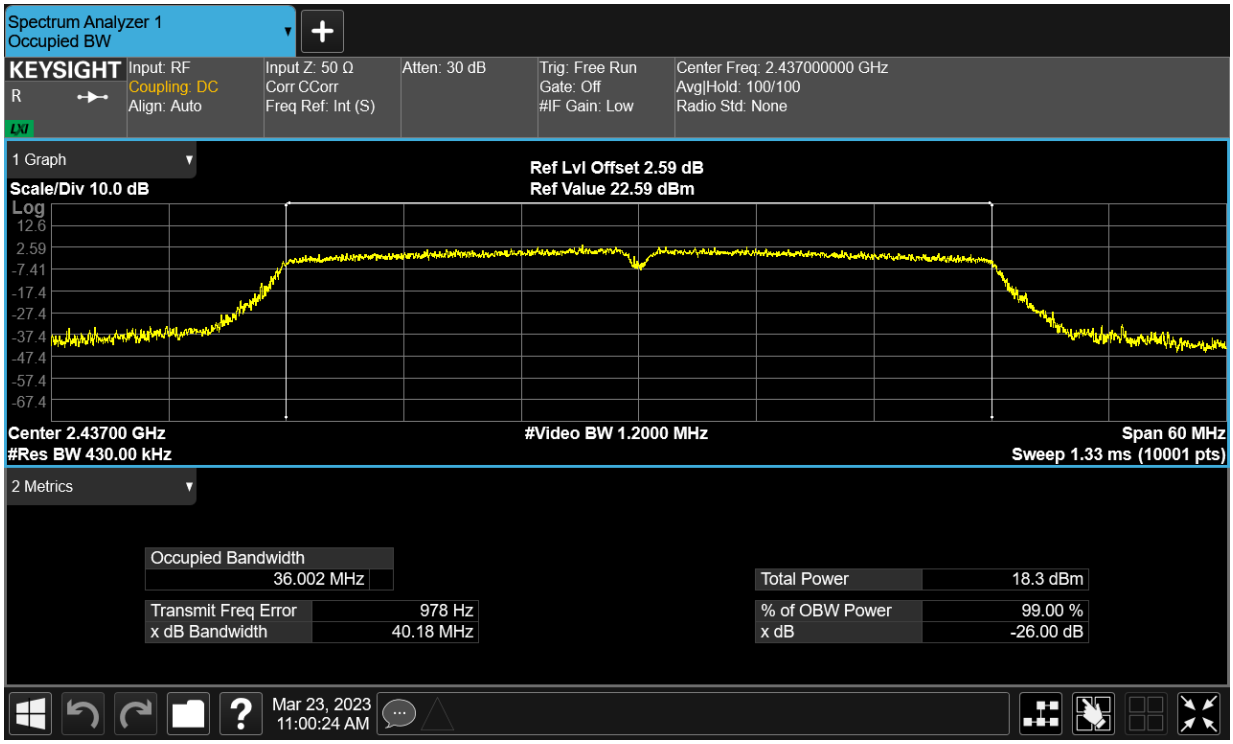
OBW NVNT n20 2462MHz Ant1



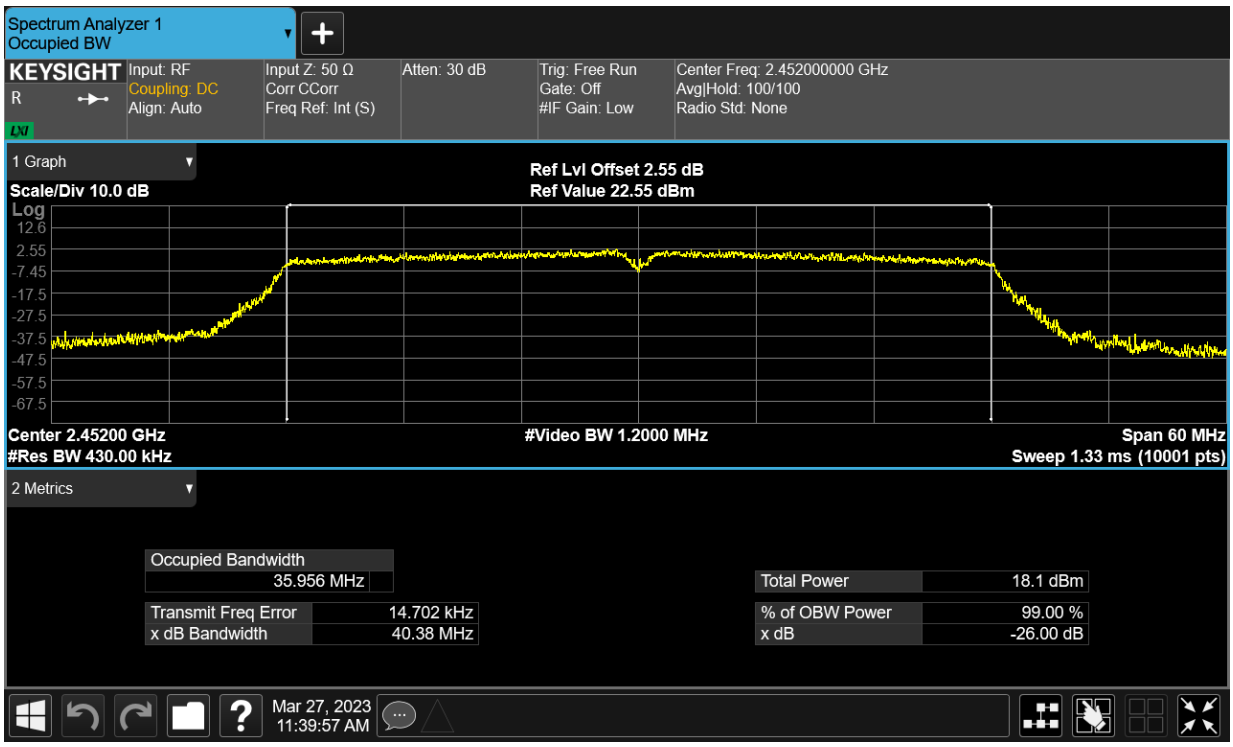
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



Maximum Power Spectral Density Level

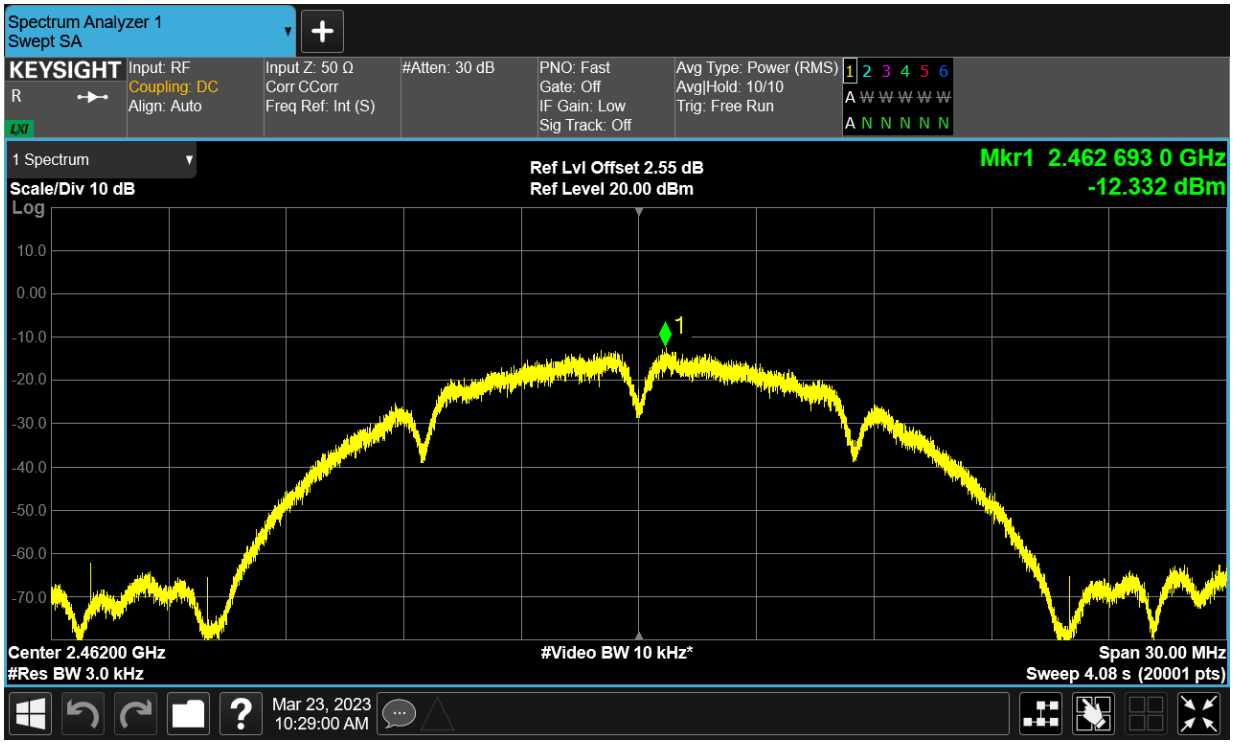
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-12.955	8	Pass
NVNT	b	2437	Ant1	-13.191	8	Pass
NVNT	b	2462	Ant1	-12.332	8	Pass
NVNT	g	2412	Ant1	-17.598	8	Pass
NVNT	g	2437	Ant1	-16.842	8	Pass
NVNT	g	2462	Ant1	-17.452	8	Pass
NVNT	n20	2412	Ant1	-19.688	8	Pass
NVNT	n20	2437	Ant1	-19.05	8	Pass
NVNT	n20	2462	Ant1	-19.191	8	Pass
NVNT	n40	2422	Ant1	-22.021	8	Pass
NVNT	n40	2437	Ant1	-21.697	8	Pass
NVNT	n40	2452	Ant1	-20.425	8	Pass

Test Graphs

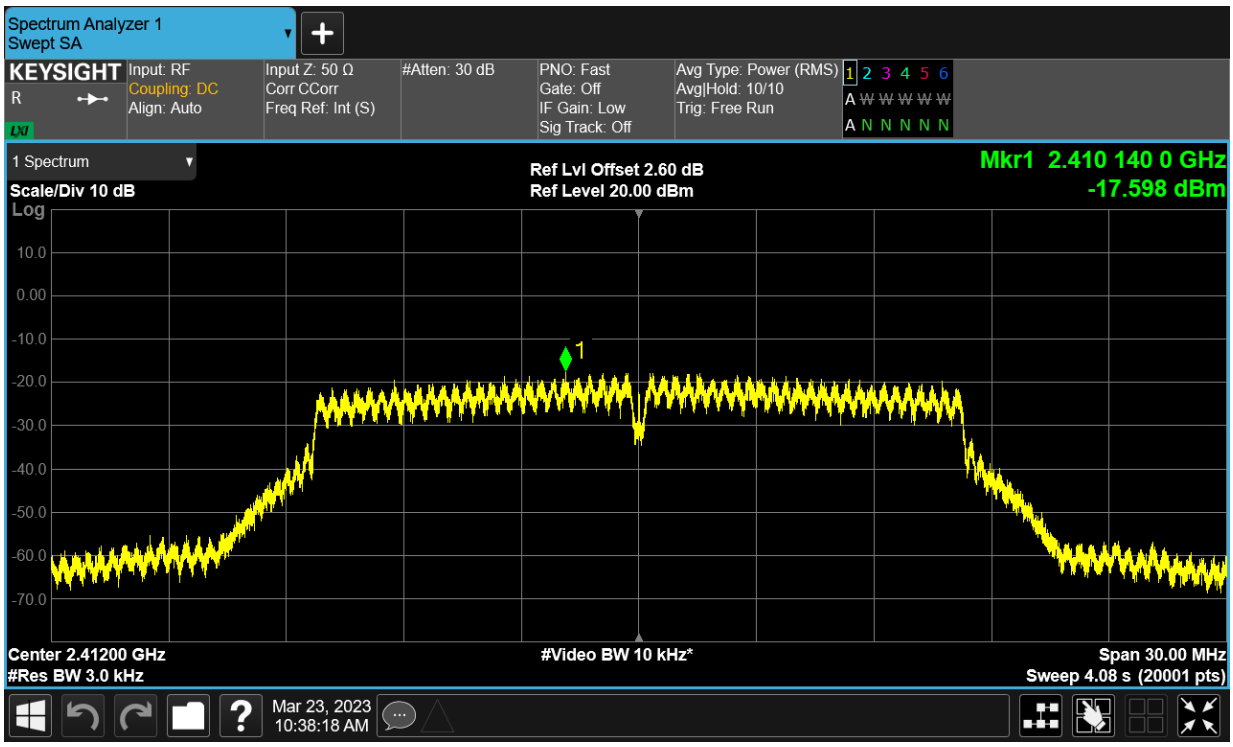
PSD NVNT b 2412MHz Ant1

PSD NVNT b 2437MHz Ant1

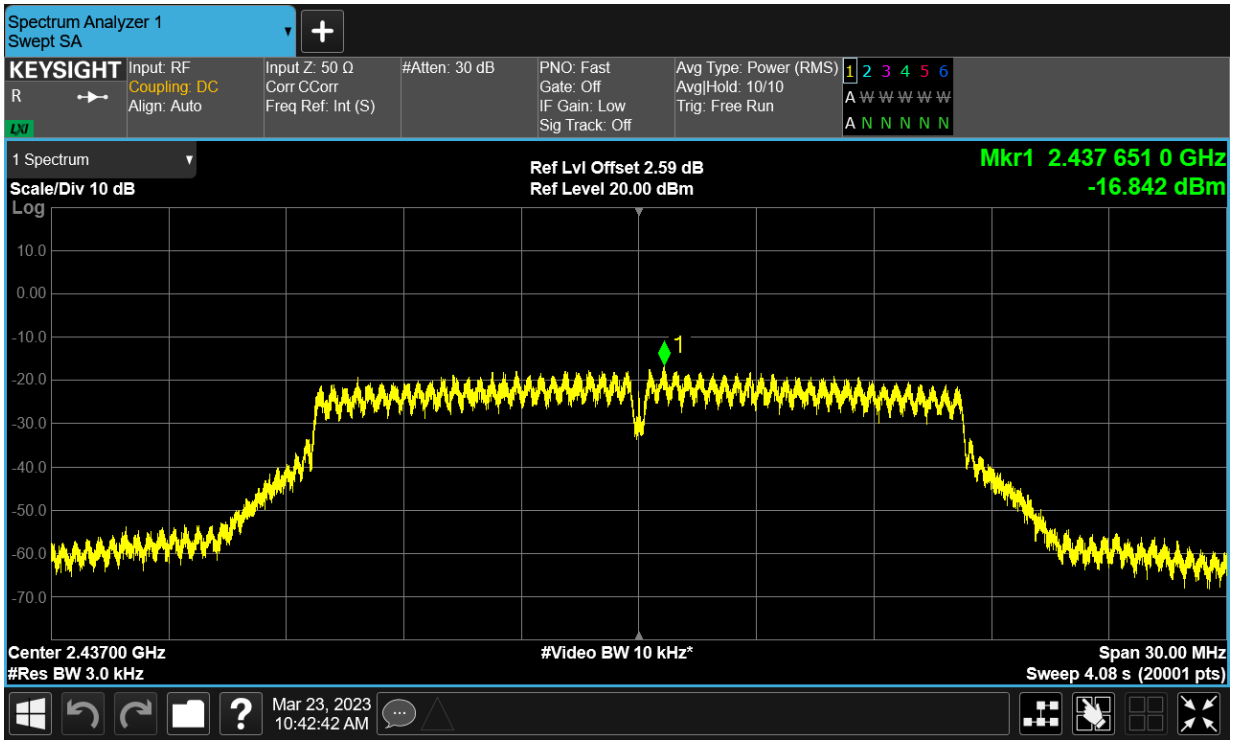
PSD NVNT b 2462MHz Ant1



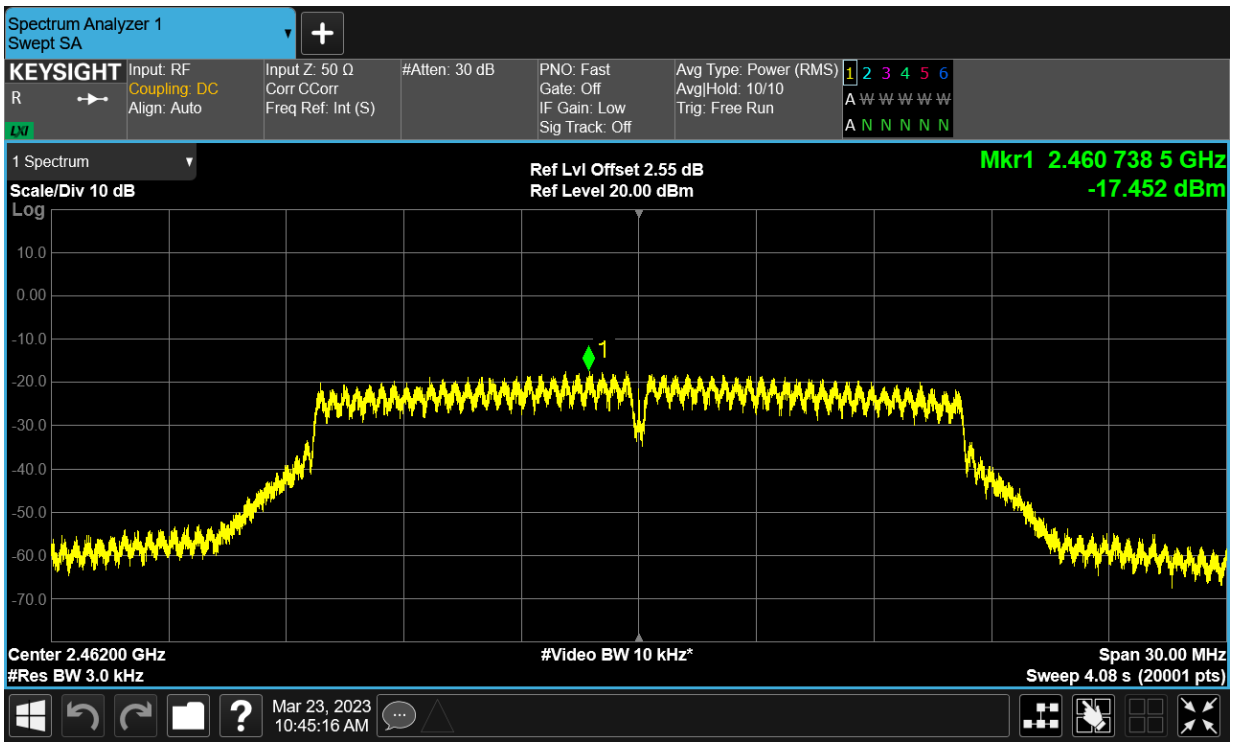
PSD NVNT g 2412MHz Ant1



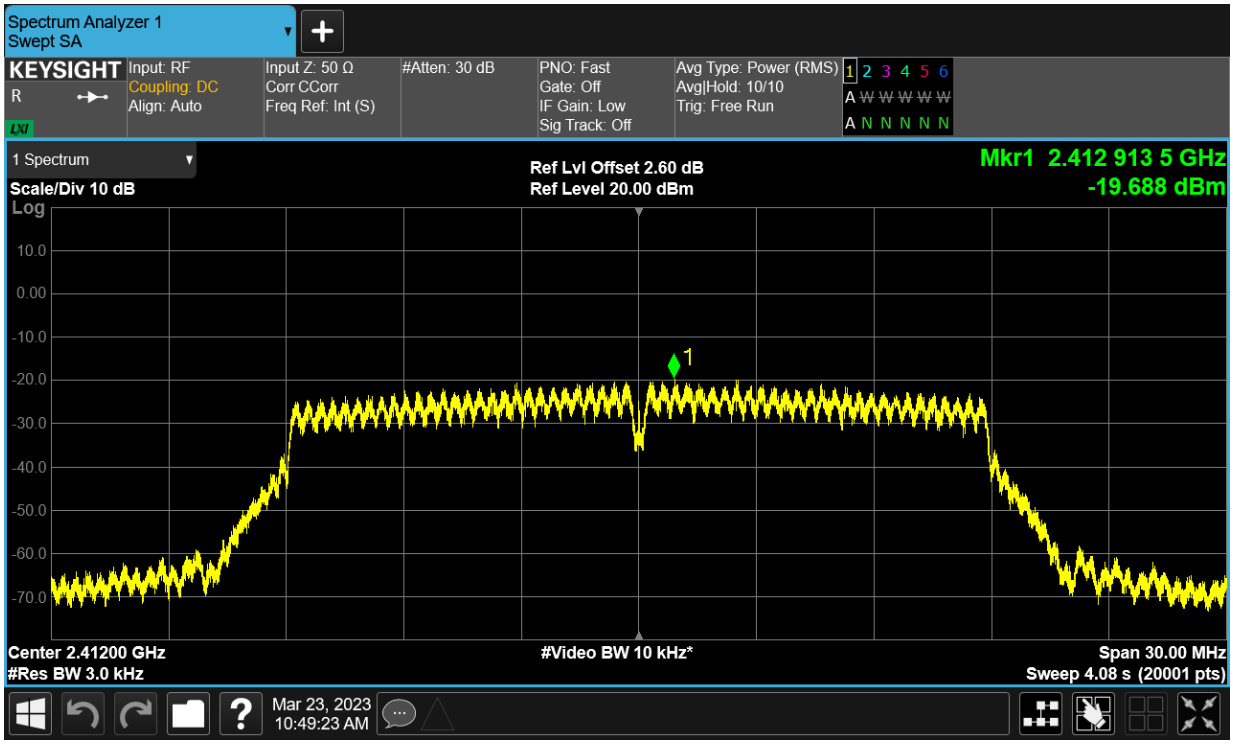
PSD NVNT g 2437MHz Ant1



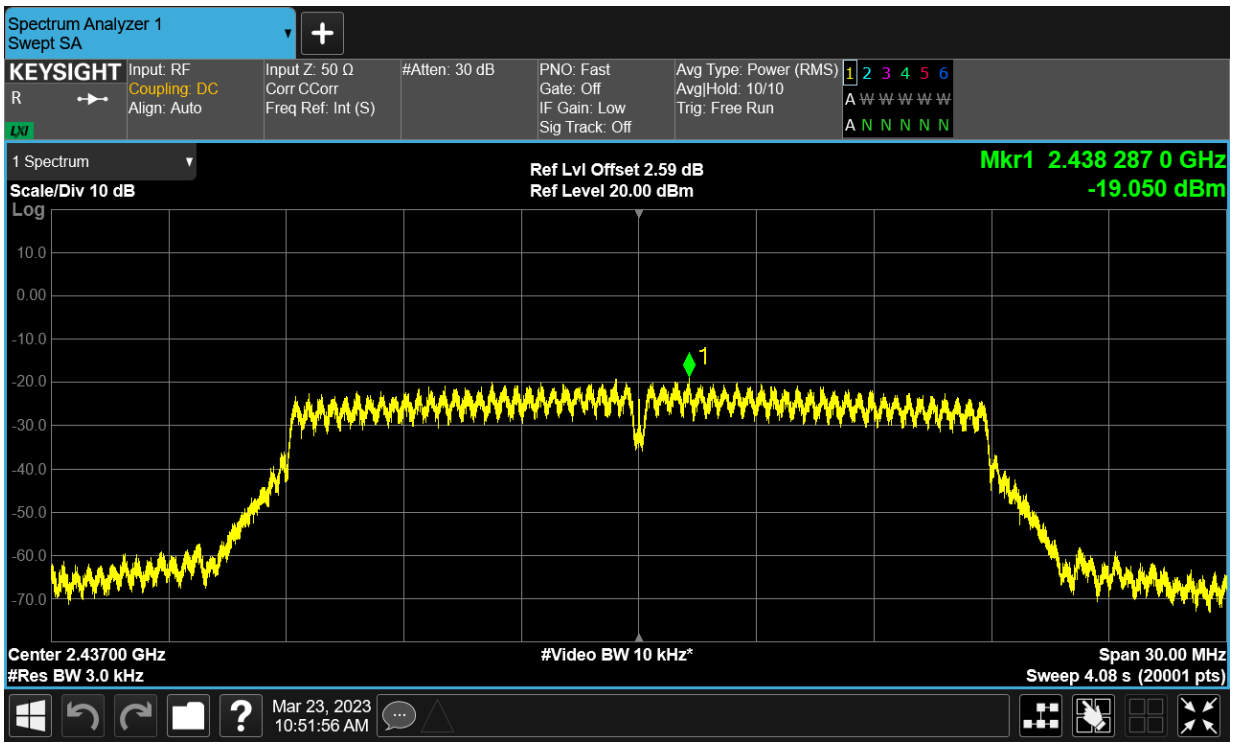
PSD NVNT g 2462MHz Ant1



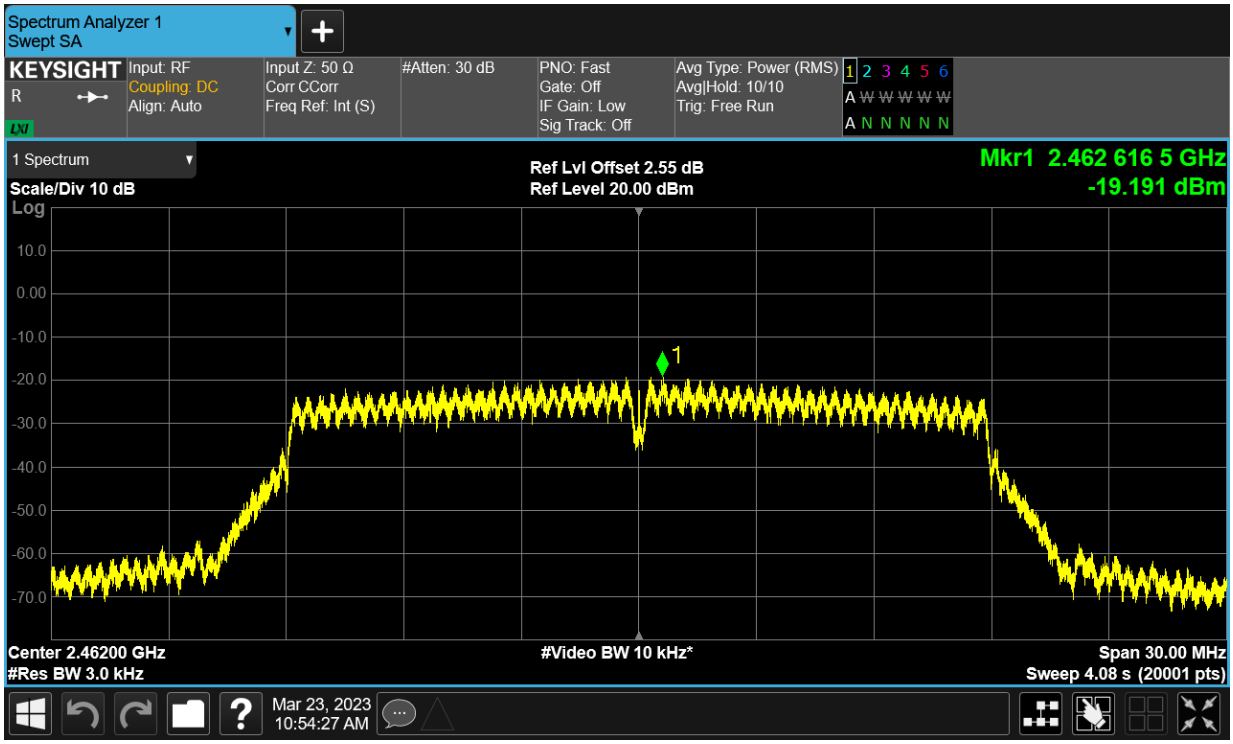
PSD NVNT n20 2412MHz Ant1



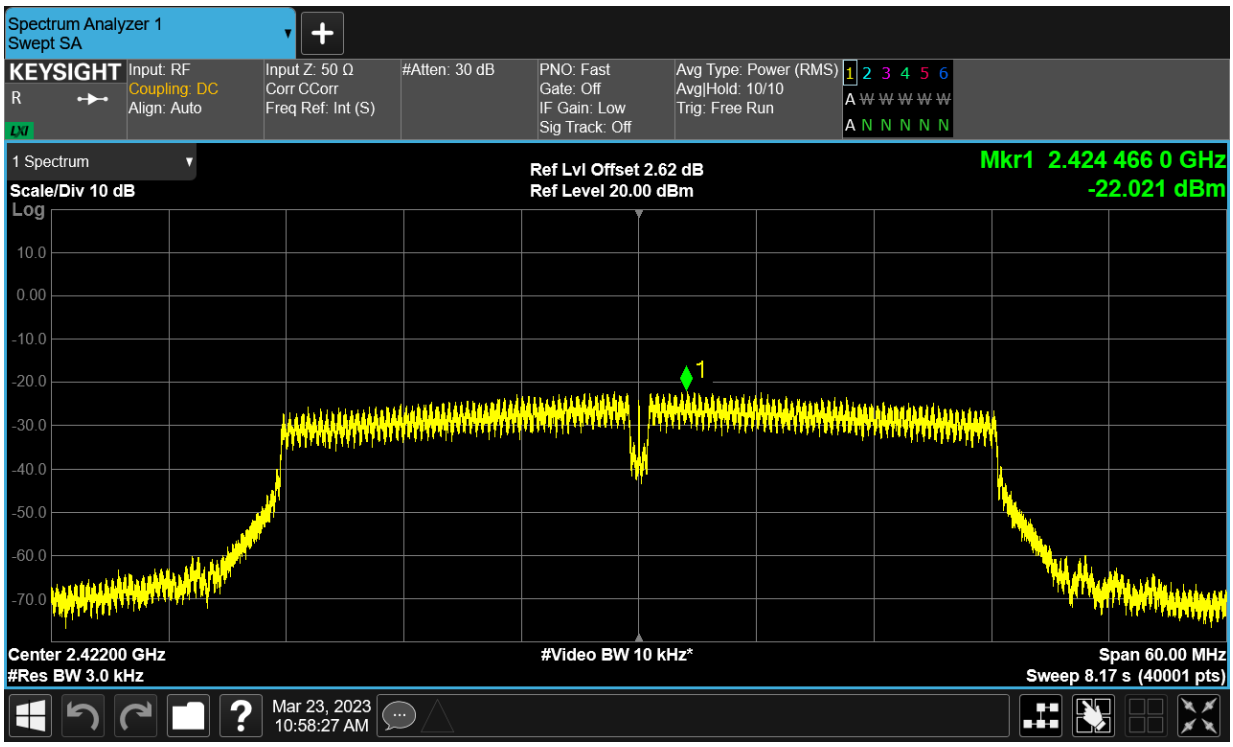
PSD NVNT n20 2437MHz Ant1



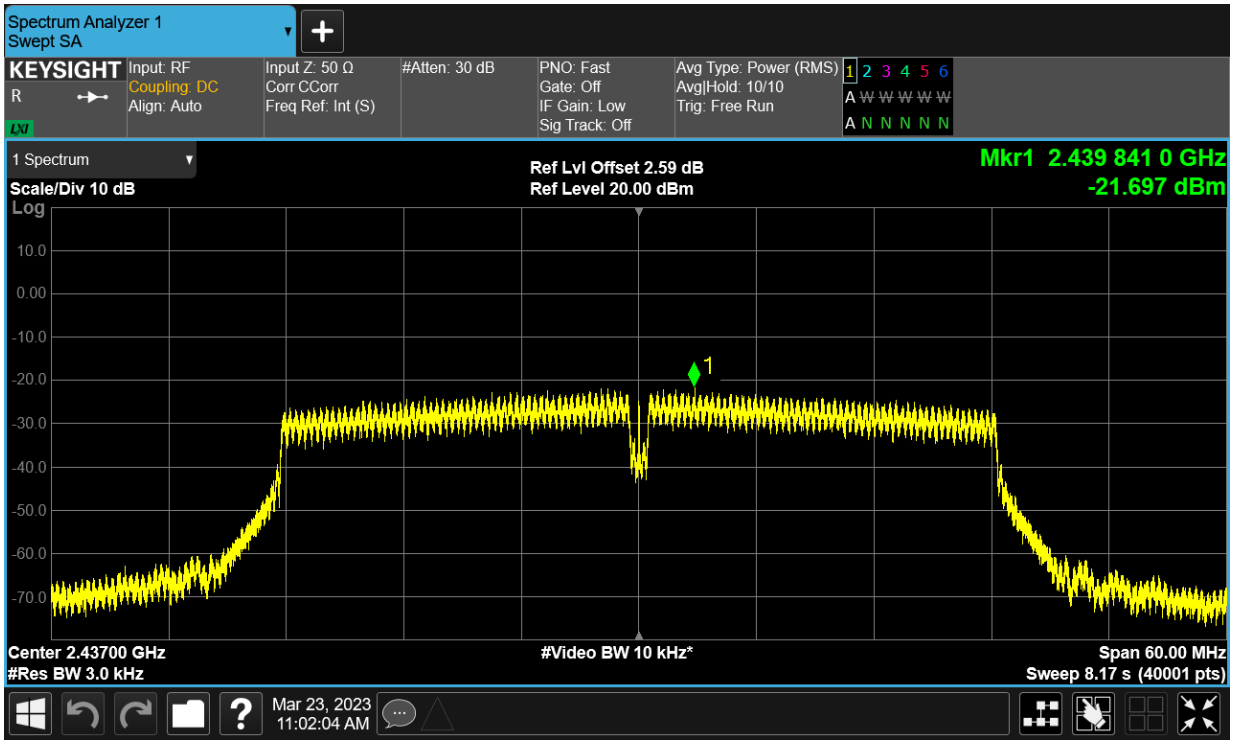
PSD NVNT n20 2462MHz Ant1



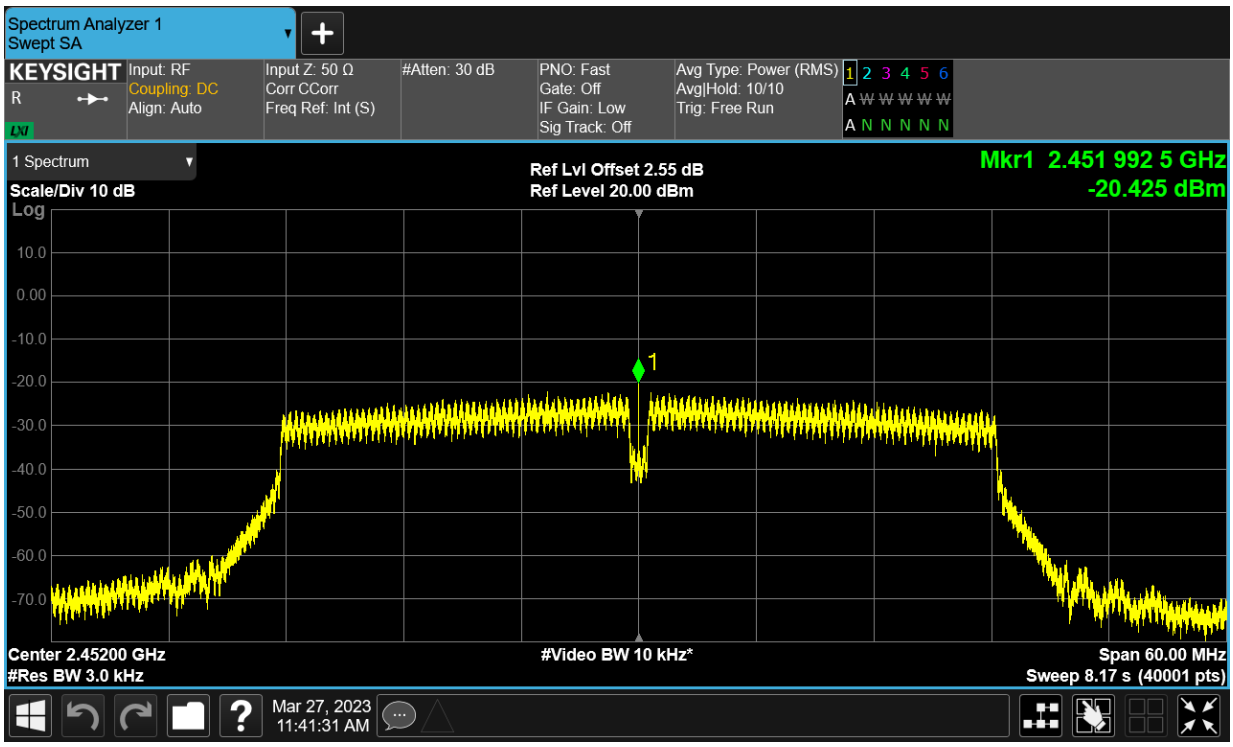
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

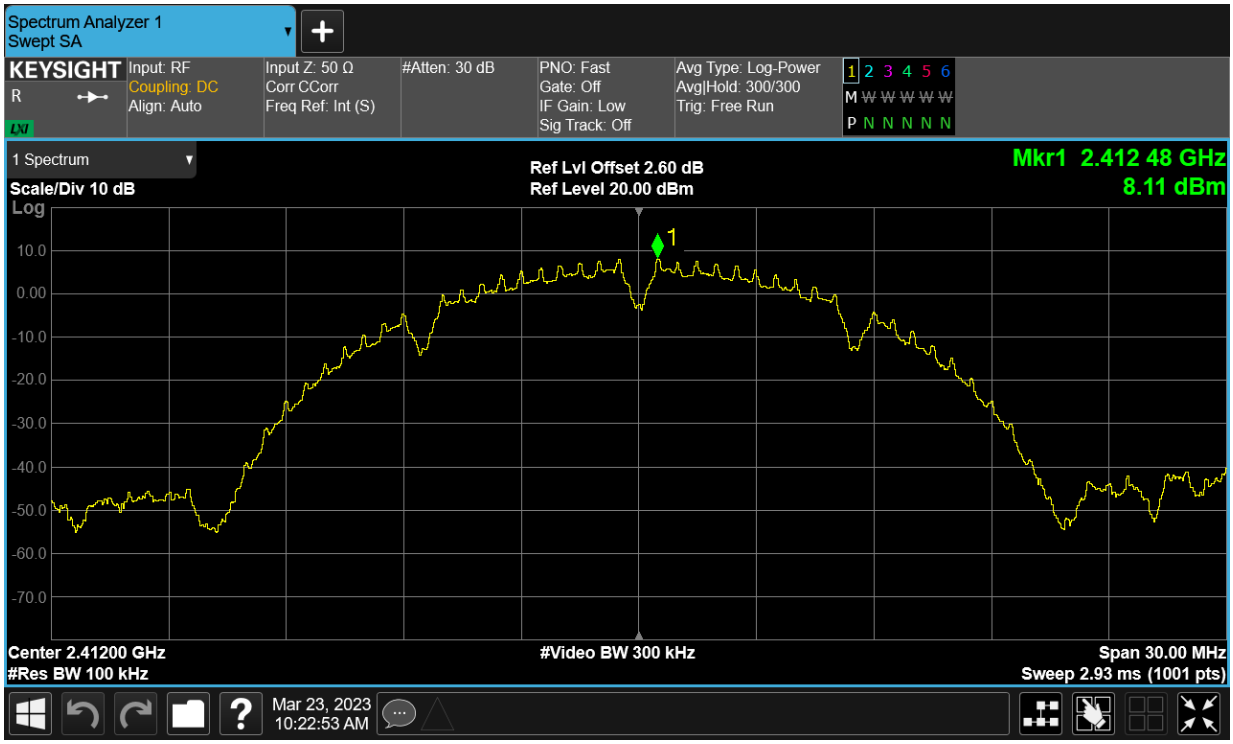


Band Edge

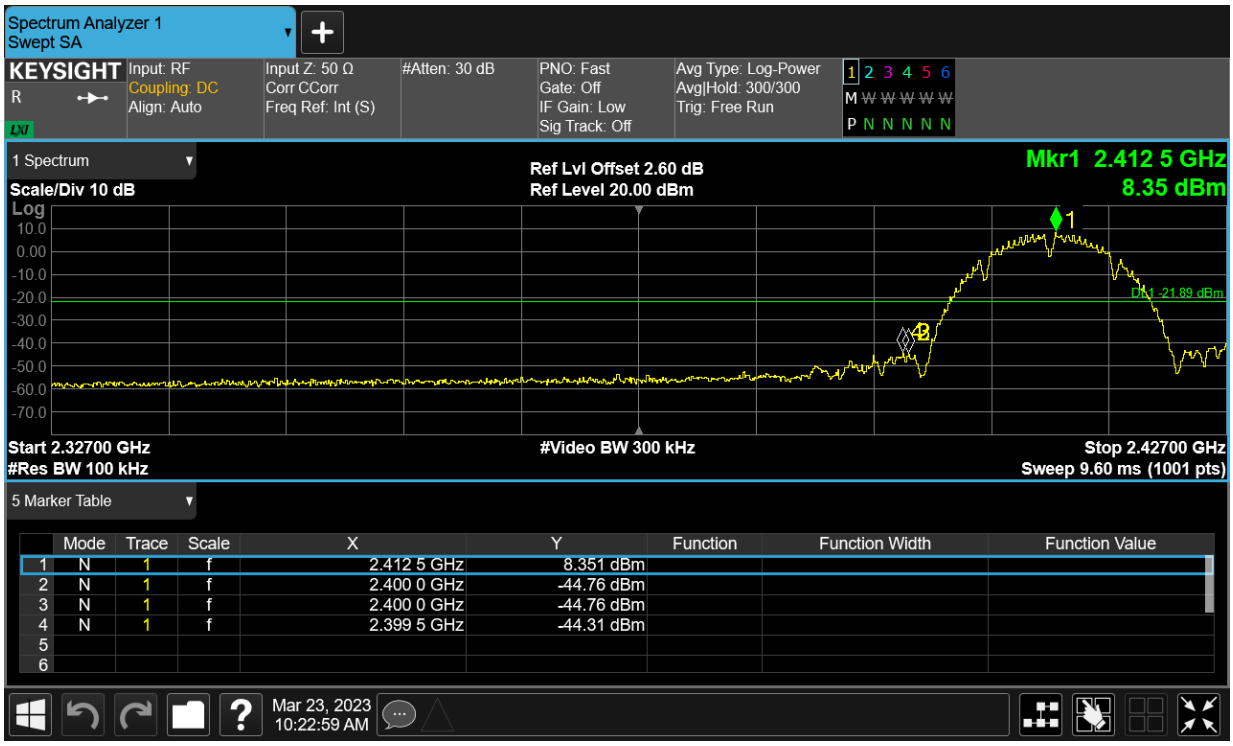
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.42	-30	Pass
NVNT	b	2462	Ant1	-62.01	-30	Pass
NVNT	g	2412	Ant1	-34.86	-30	Pass
NVNT	g	2462	Ant1	-49.28	-30	Pass
NVNT	n20	2412	Ant1	-36.47	-30	Pass
NVNT	n20	2462	Ant1	-50.75	-30	Pass
NVNT	n40	2422	Ant1	-35.7	-30	Pass
NVNT	n40	2452	Ant1	-45.23	-30	Pass

Test Graphs

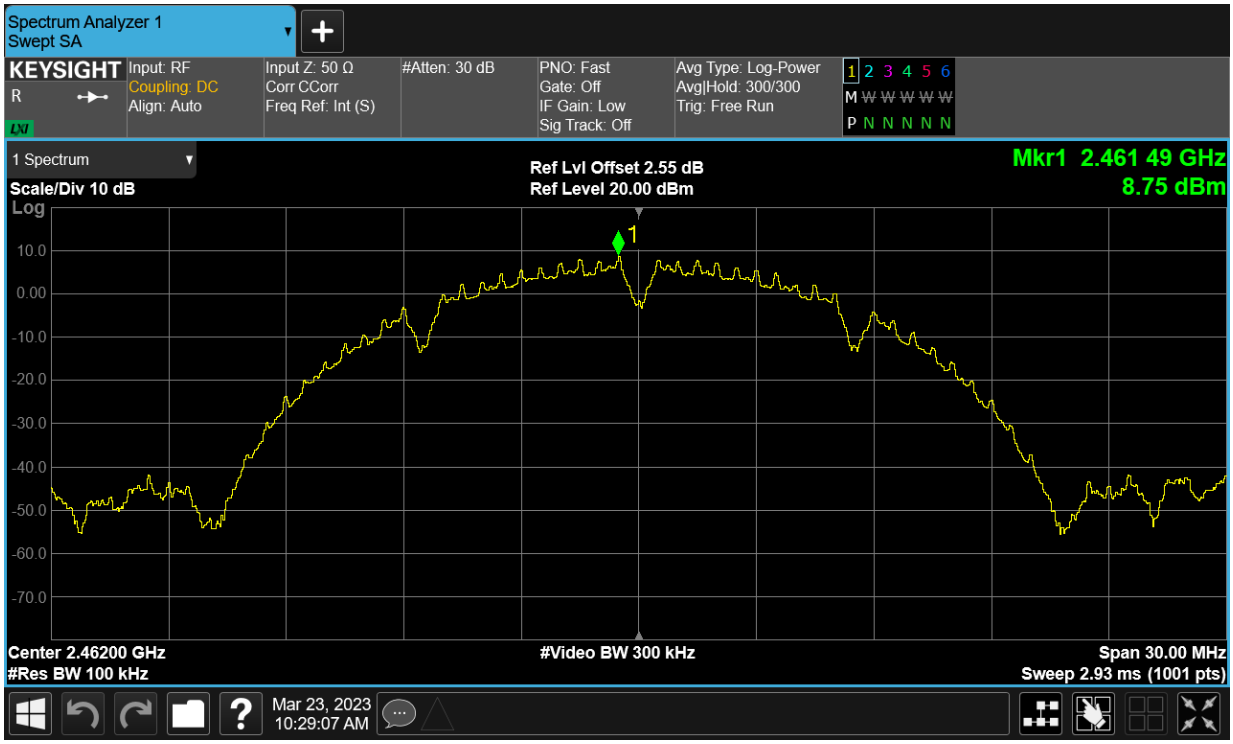
Band Edge NVNT b 2412MHz Ant1 Ref



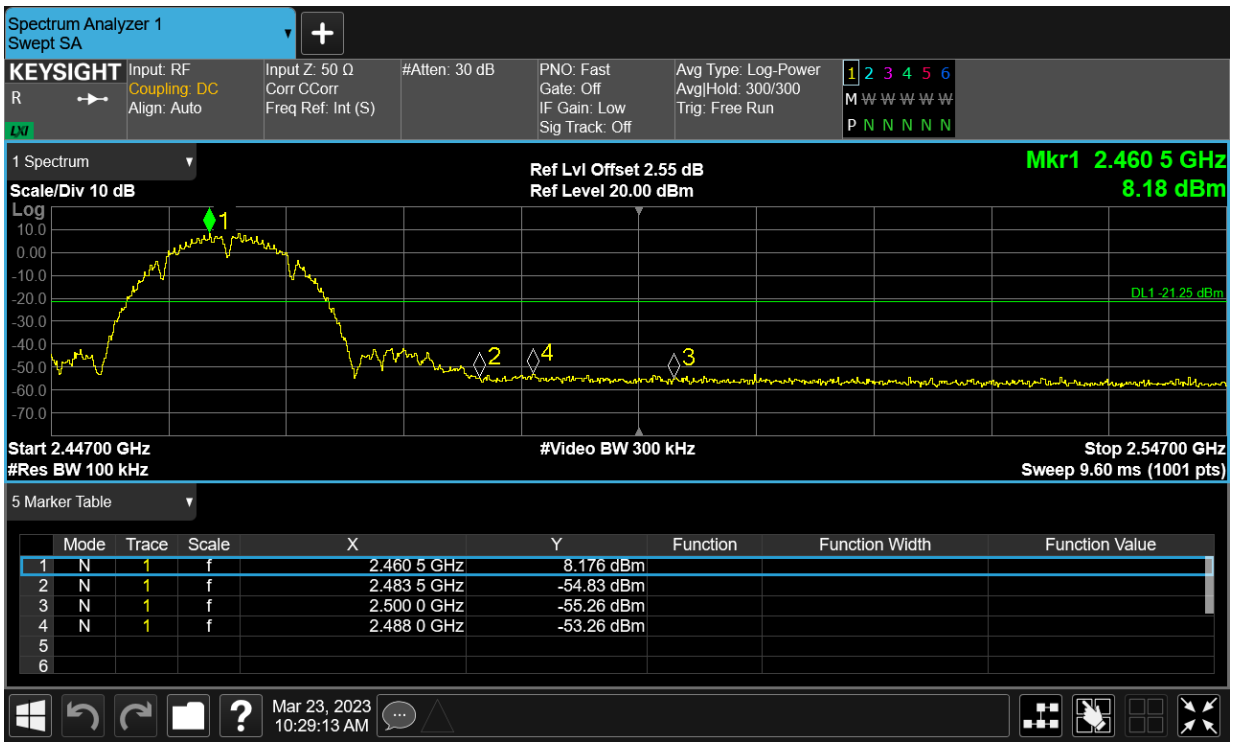
Band Edge NVNT b 2412MHz Ant1 Emission



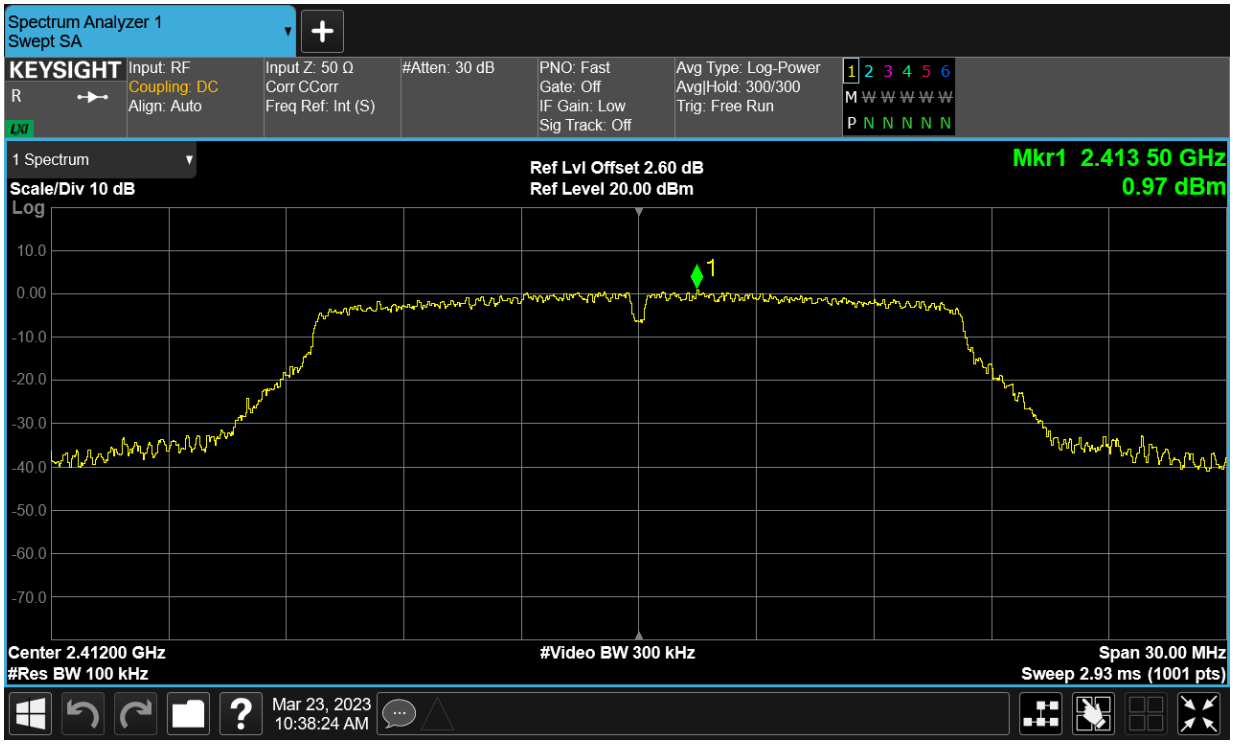
Band Edge NVNT b 2462MHz Ant1 Ref



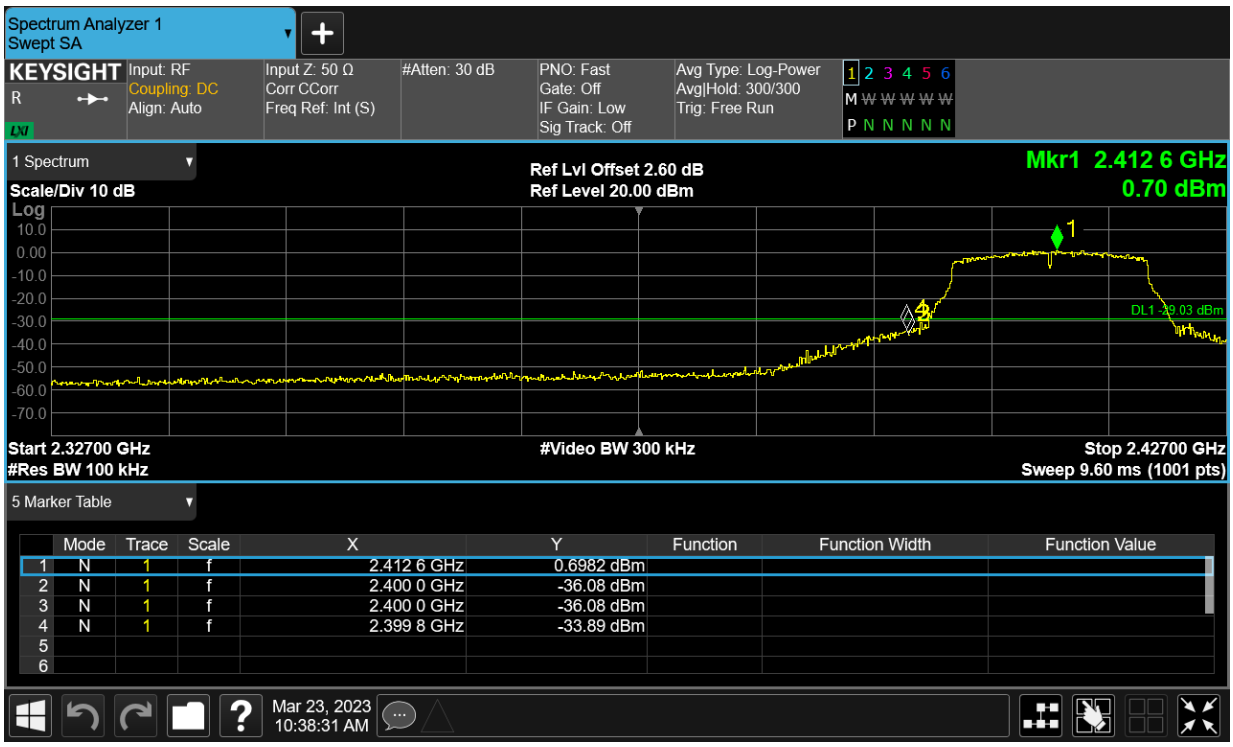
Band Edge NVNT b 2462MHz Ant1 Emission



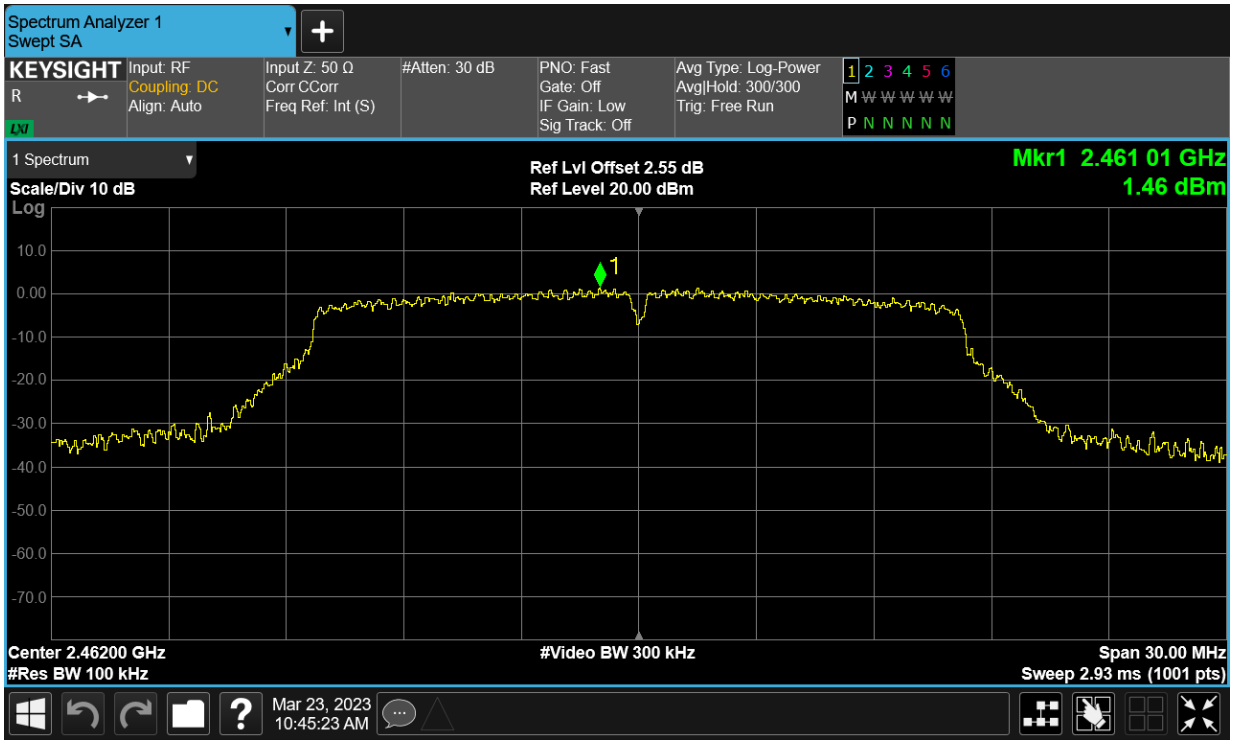
Band Edge NVNT g 2412MHz Ant1 Ref



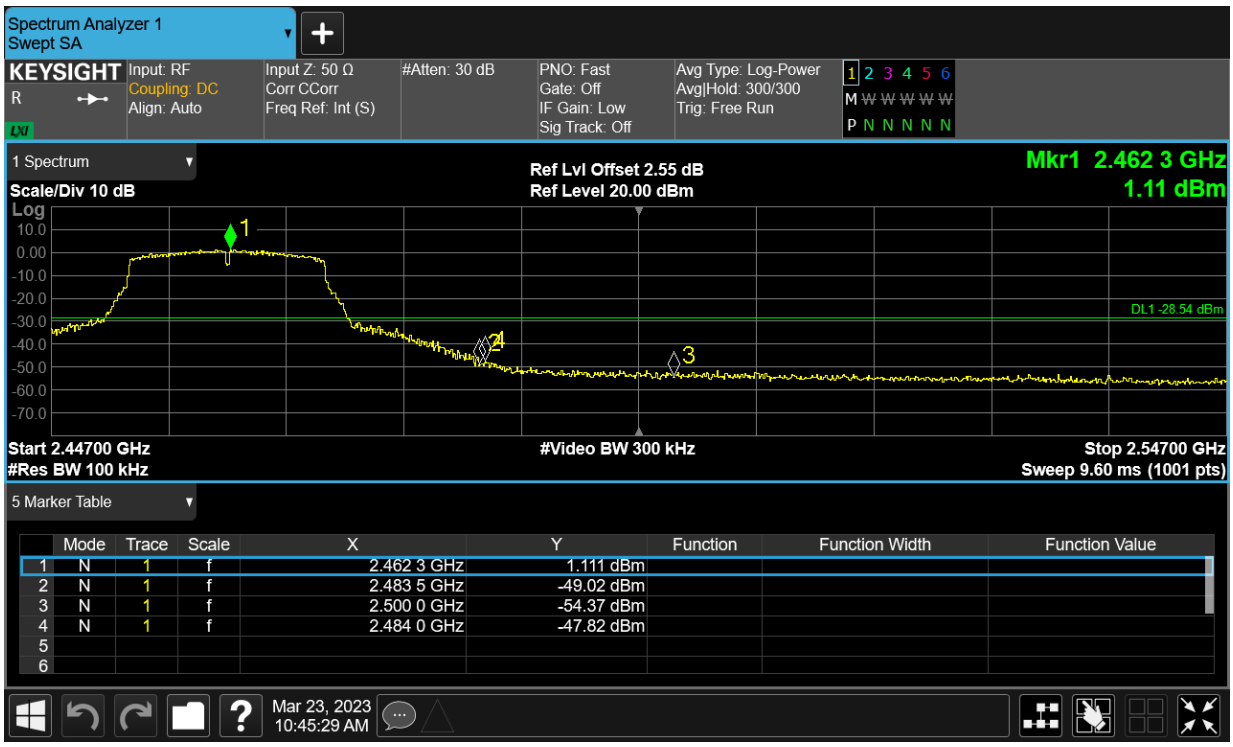
Band Edge NVNT g 2412MHz Ant1 Emission



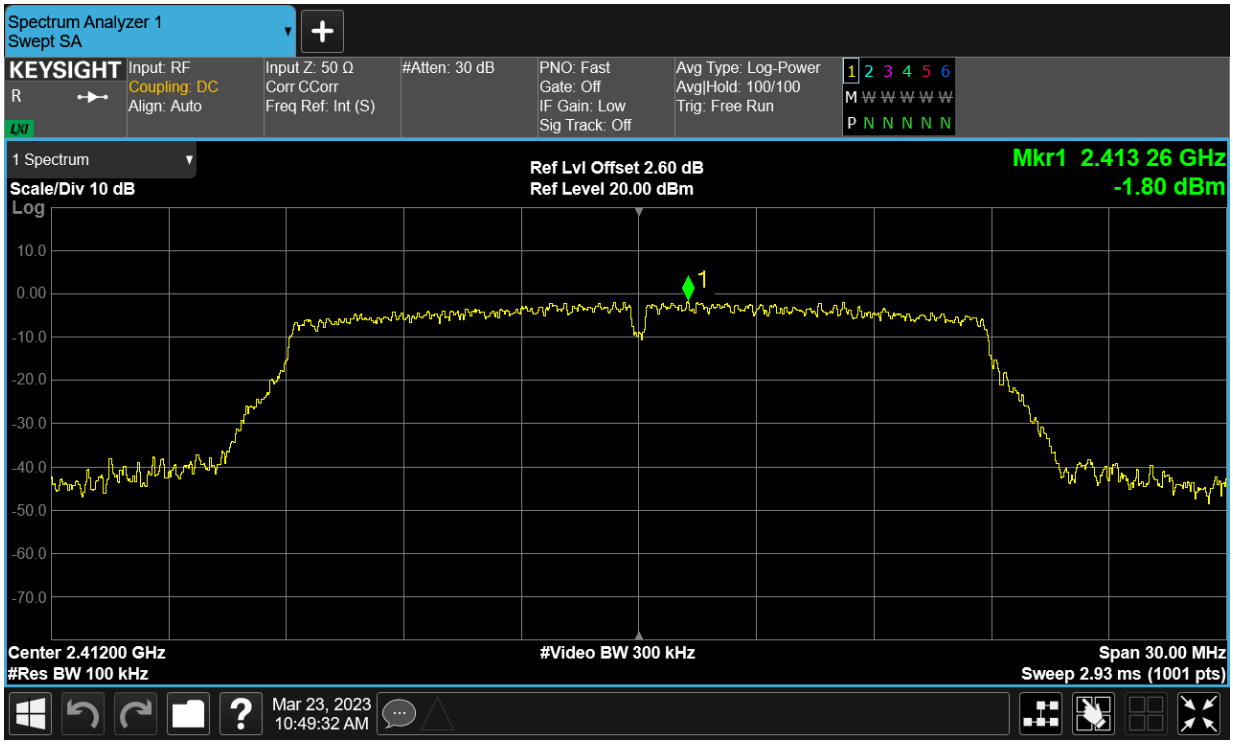
Band Edge NVNT g 2462MHz Ant1 Ref



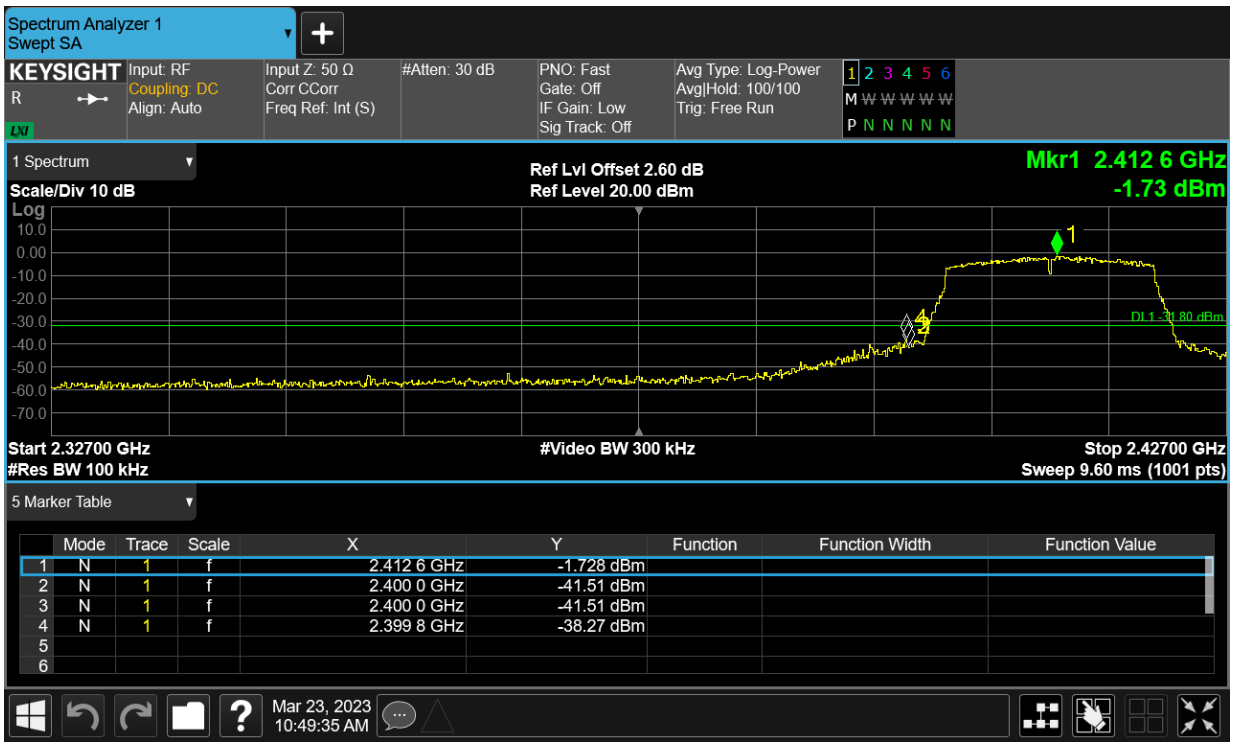
Band Edge NVNT g 2462MHz Ant1 Emission



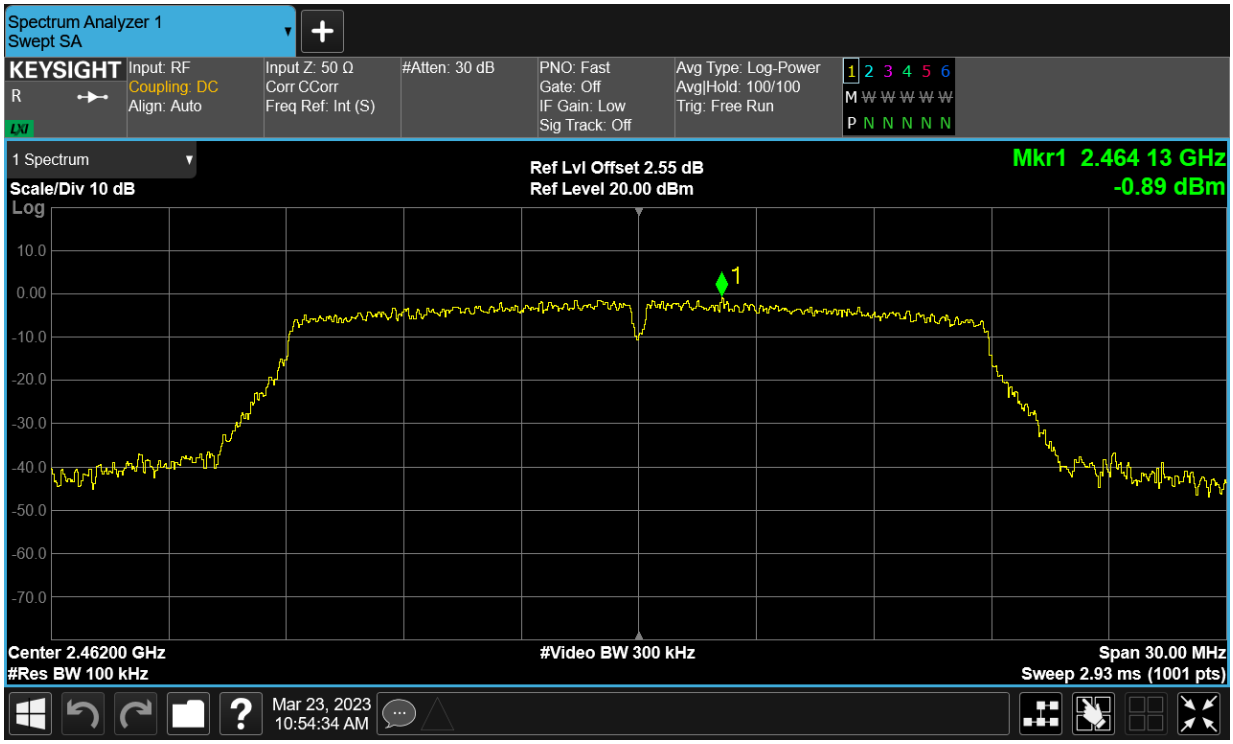
Band Edge NVNT n20 2412MHz Ant1 Ref



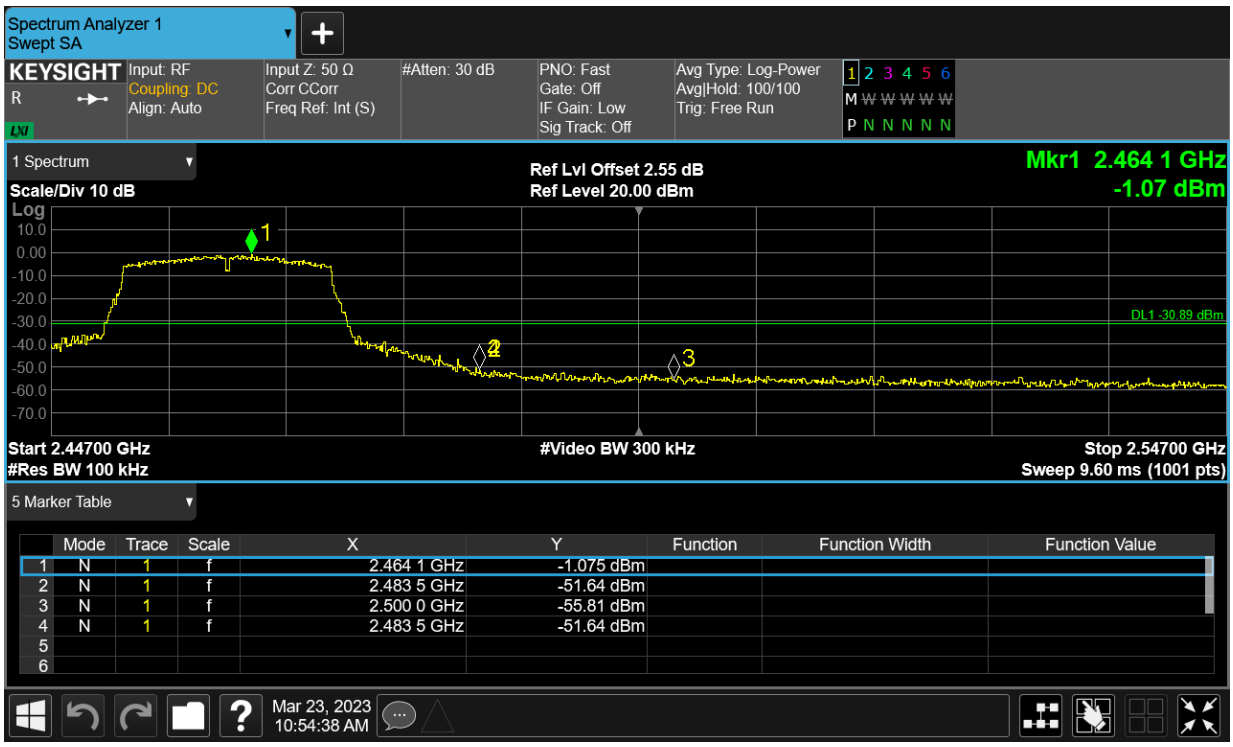
Band Edge NVNT n20 2412MHz Ant1 Emission



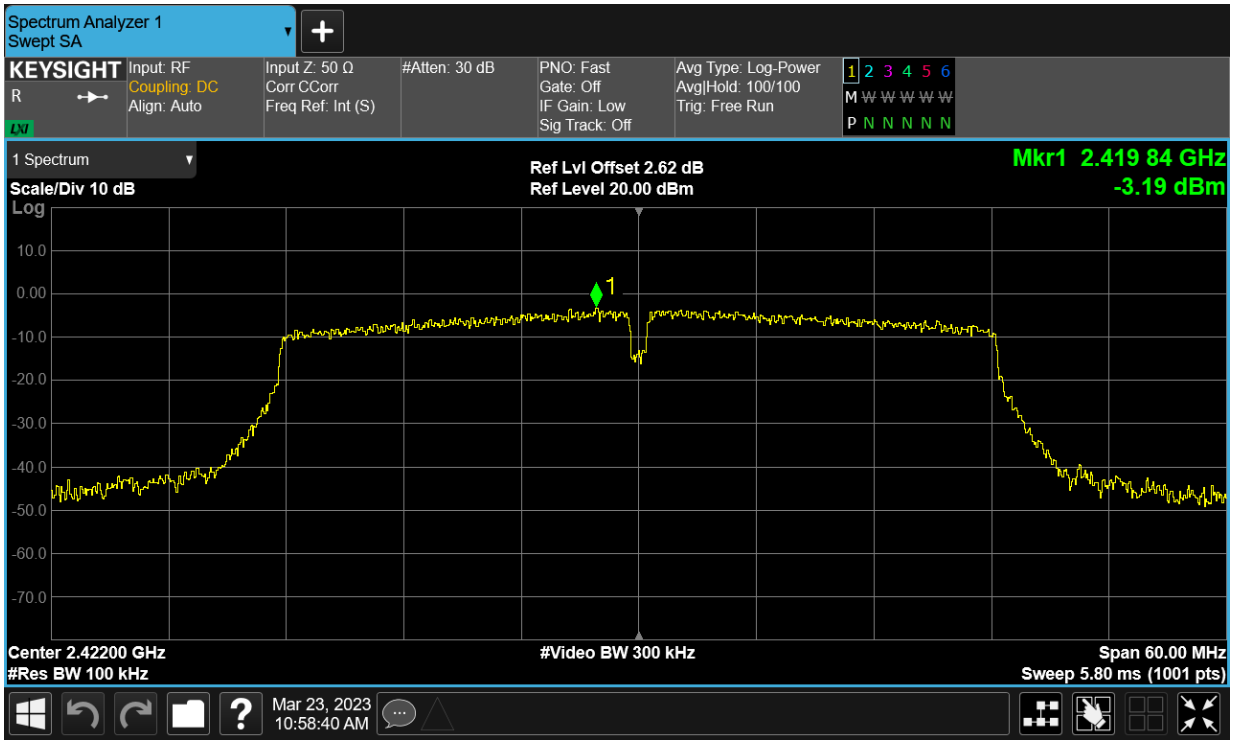
Band Edge NVNT n20 2462MHz Ant1 Ref



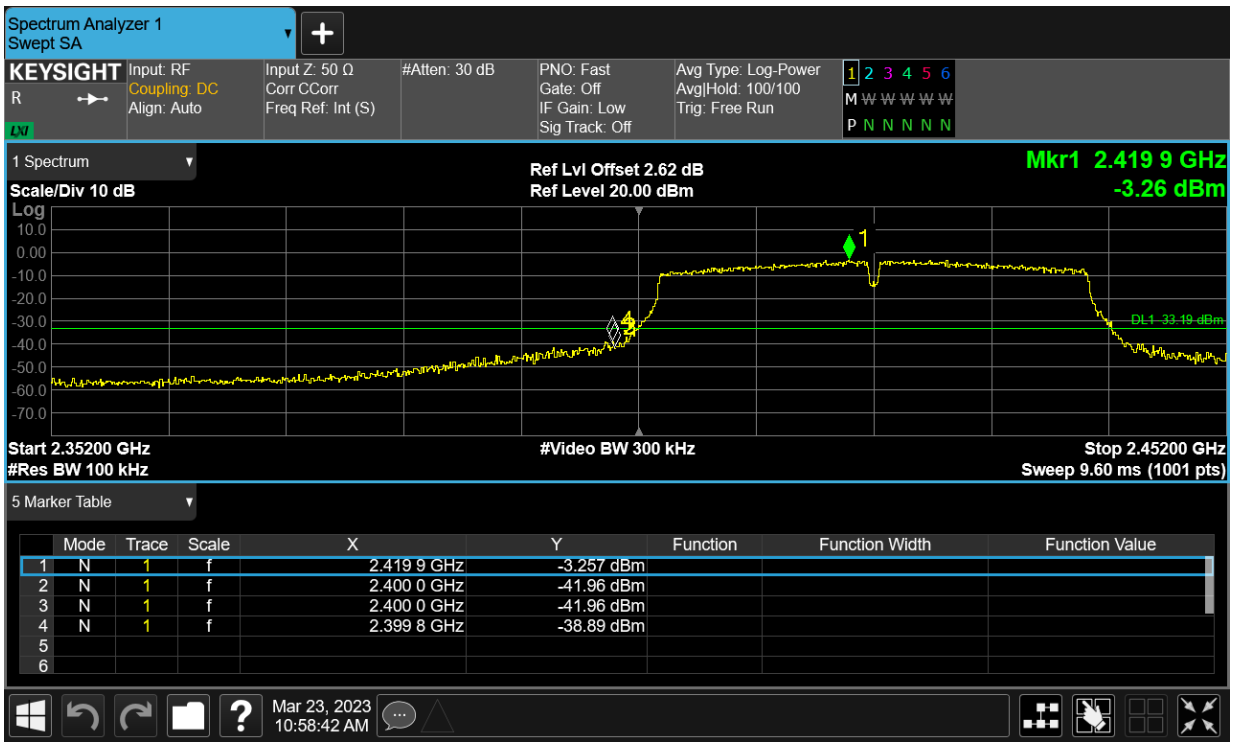
Band Edge NVNT n20 2462MHz Ant1 Emission



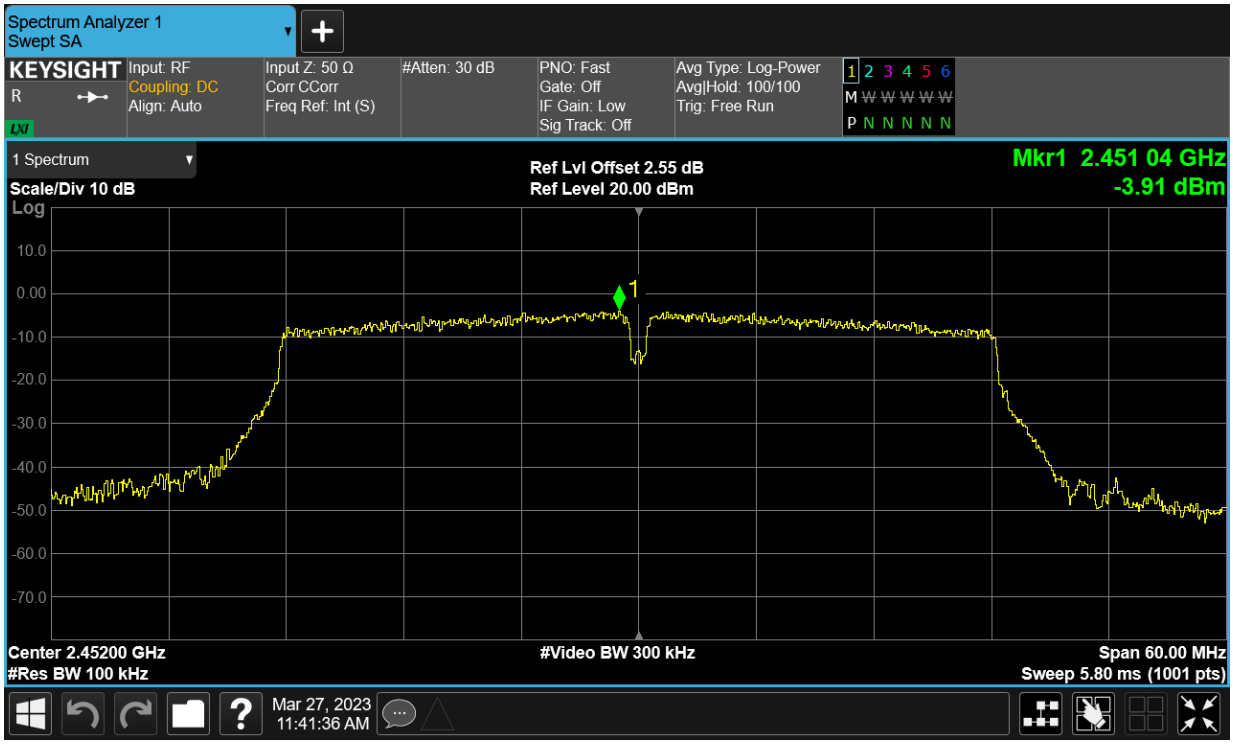
Band Edge NVNT n40 2422MHz Ant1 Ref



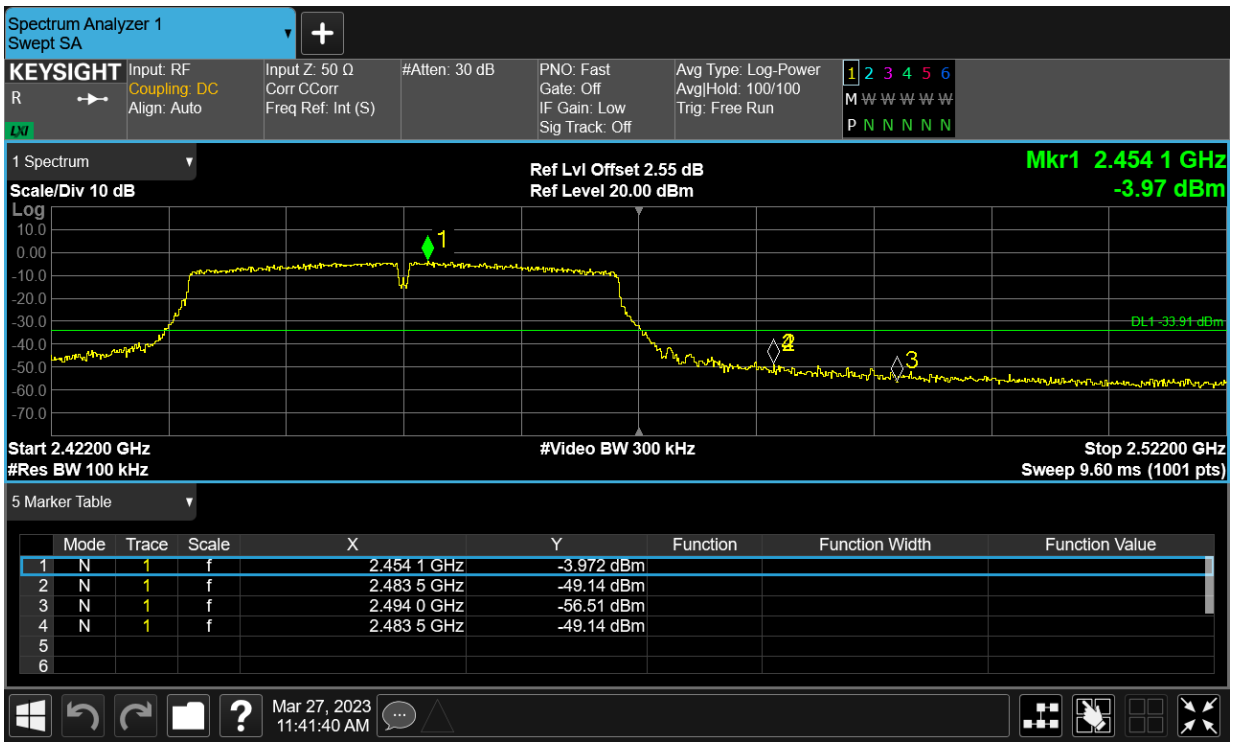
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

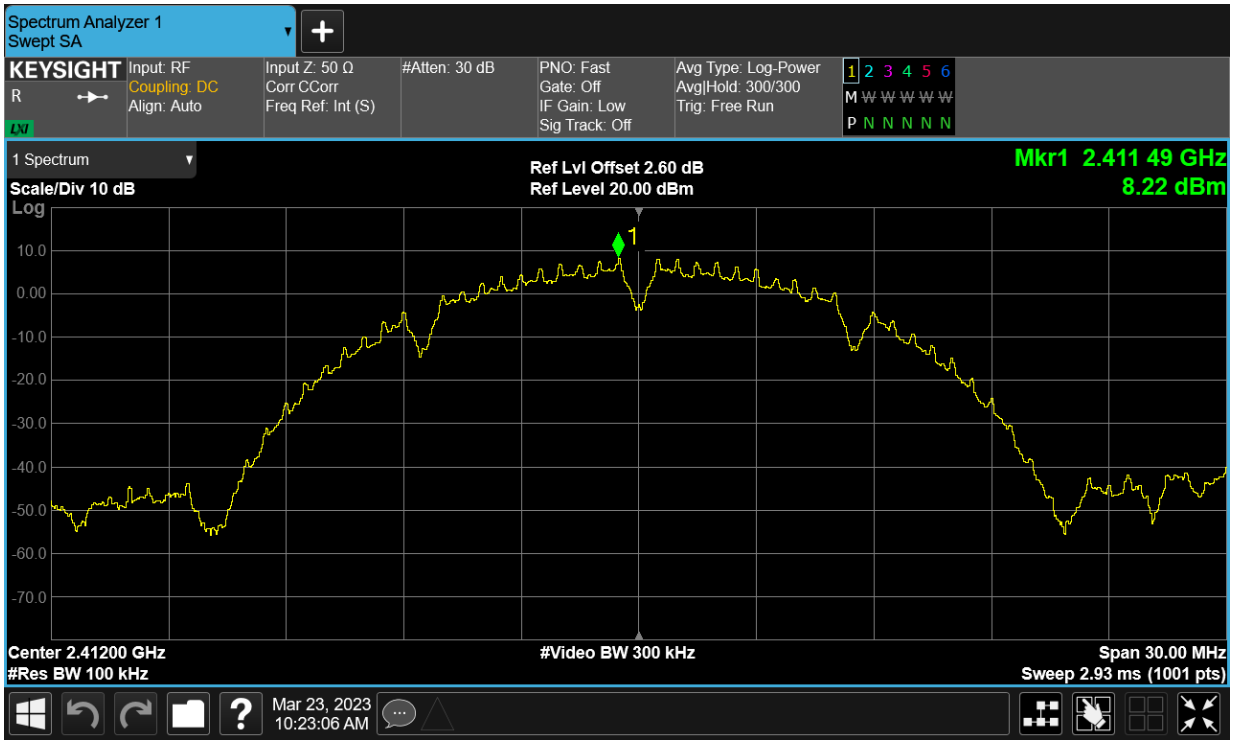


Conducted RF Spurious Emission

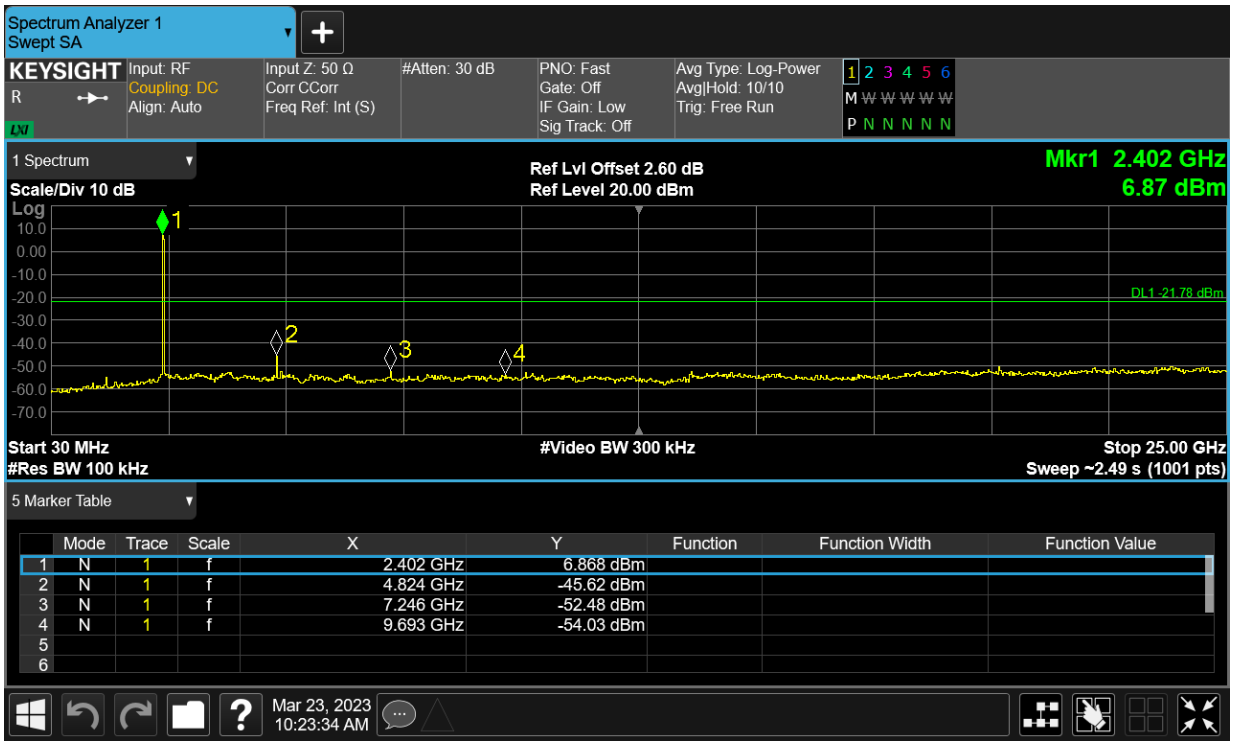
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.84	-30	Pass
NVNT	b	2437	Ant1	-53.18	-30	Pass
NVNT	b	2462	Ant1	-54.68	-30	Pass
NVNT	g	2412	Ant1	-50.89	-30	Pass
NVNT	g	2437	Ant1	-51.22	-30	Pass
NVNT	g	2462	Ant1	-51.6	-30	Pass
NVNT	n20	2412	Ant1	-46.89	-30	Pass
NVNT	n20	2437	Ant1	-47.55	-30	Pass
NVNT	n20	2462	Ant1	-55.32	-30	Pass
NVNT	n40	2422	Ant1	-46.08	-30	Pass
NVNT	n40	2437	Ant1	-46.65	-30	Pass
NVNT	n40	2452	Ant1	-46.45	-30	Pass

Test Graphs

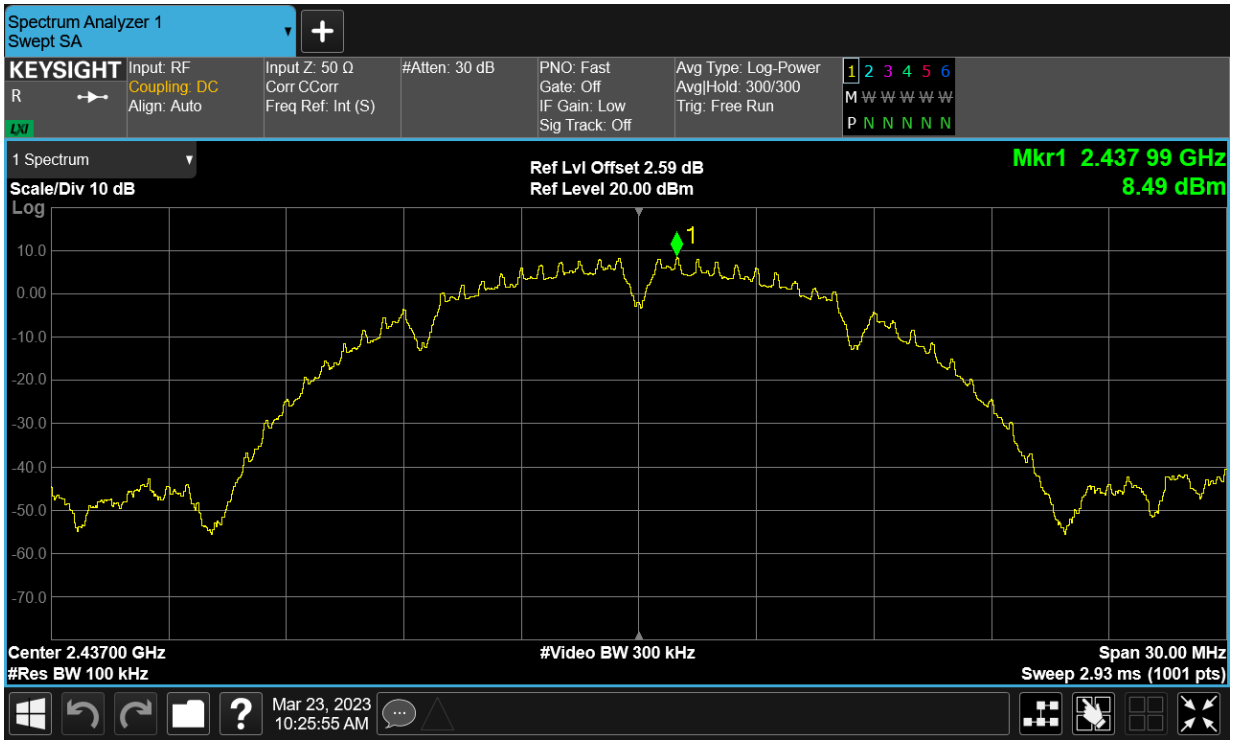
Tx. Spurious NVNT b 2412MHz Ant1 Ref



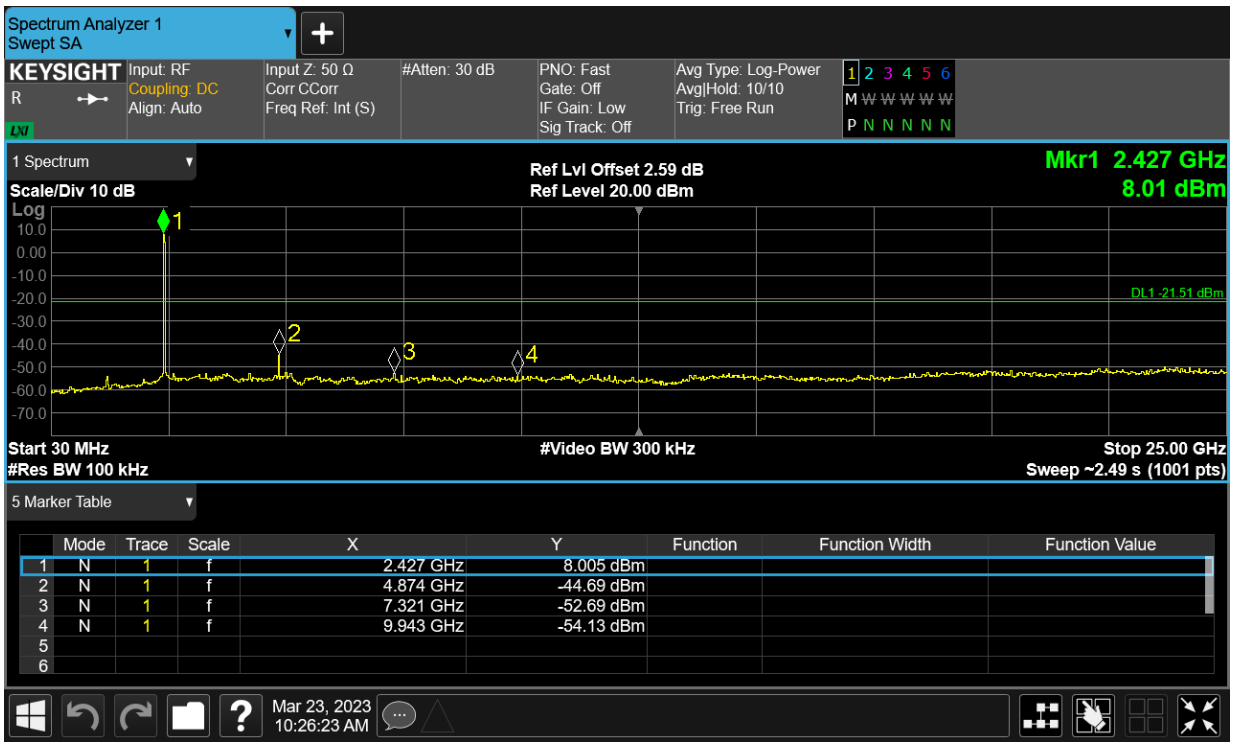
Tx. Spurious NVNT b 2412MHz Ant1 Emission



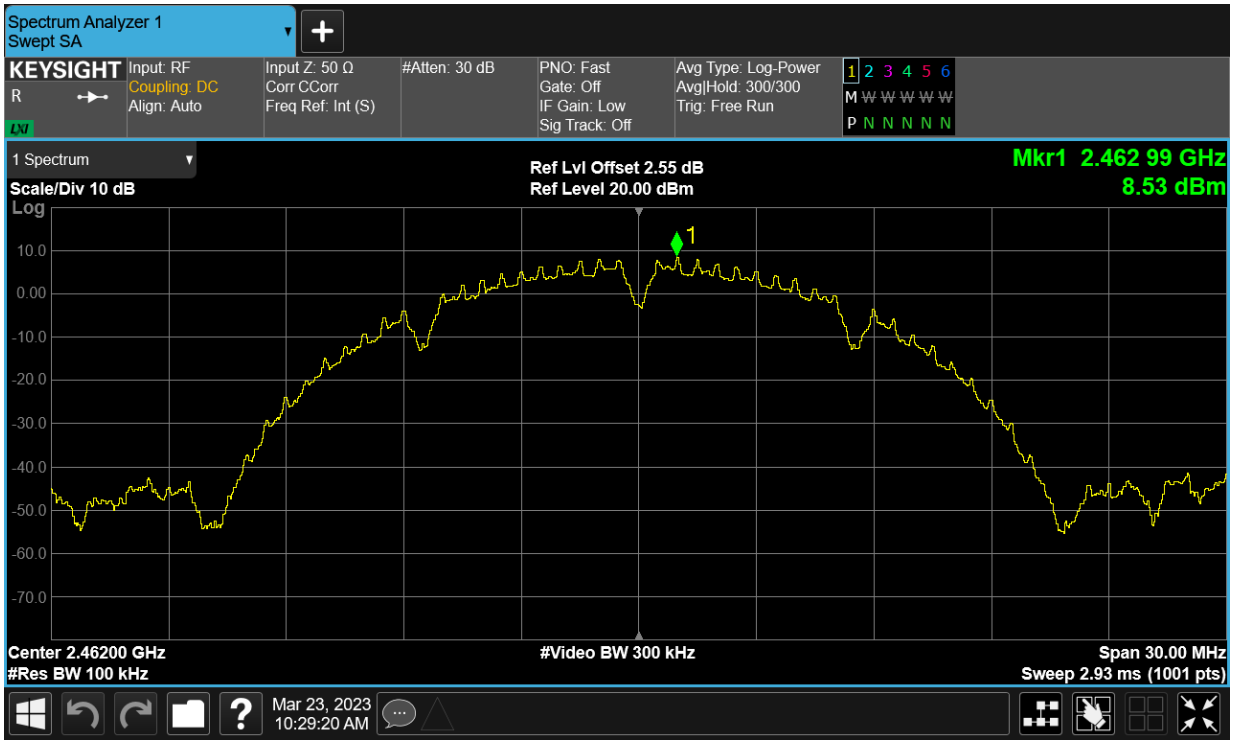
Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



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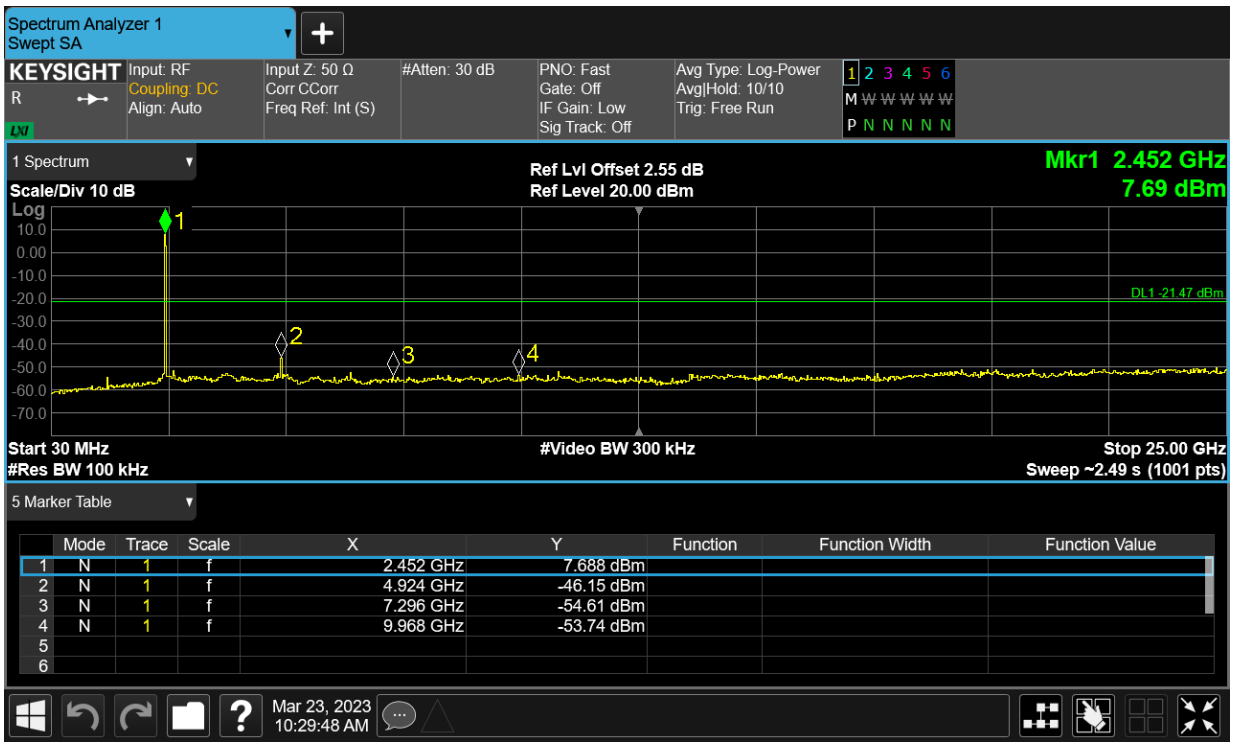
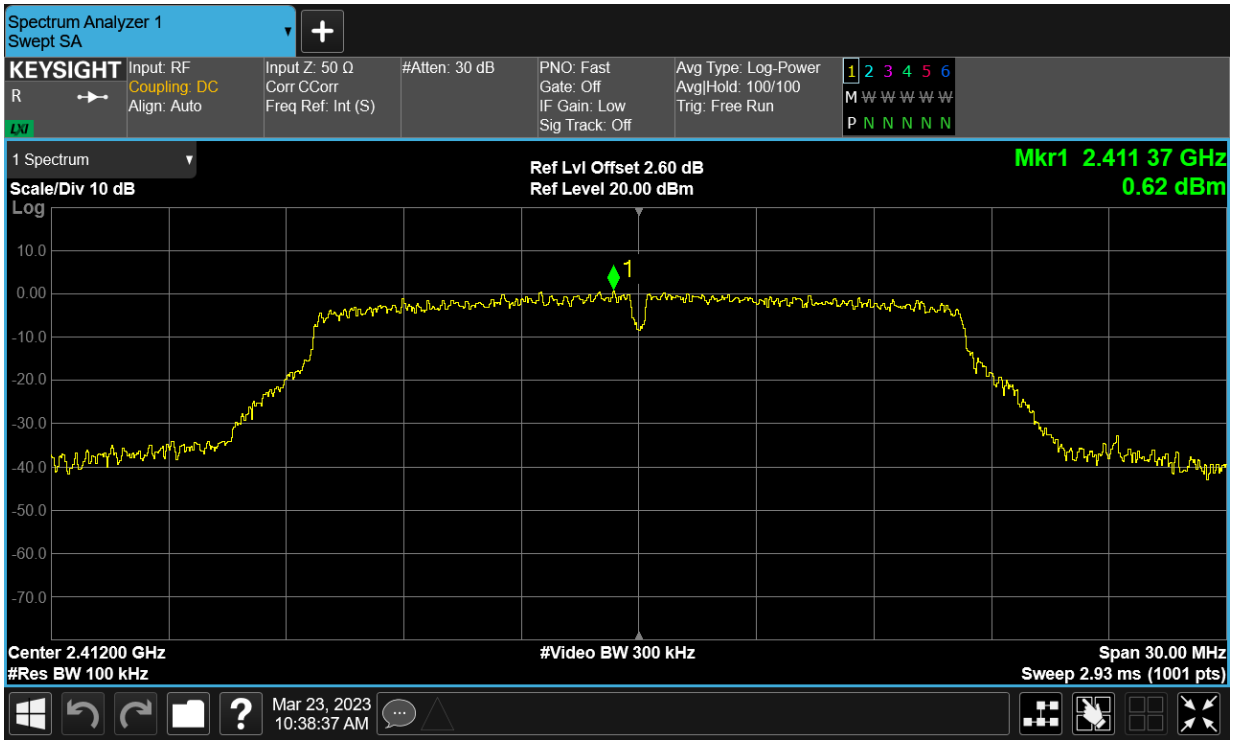
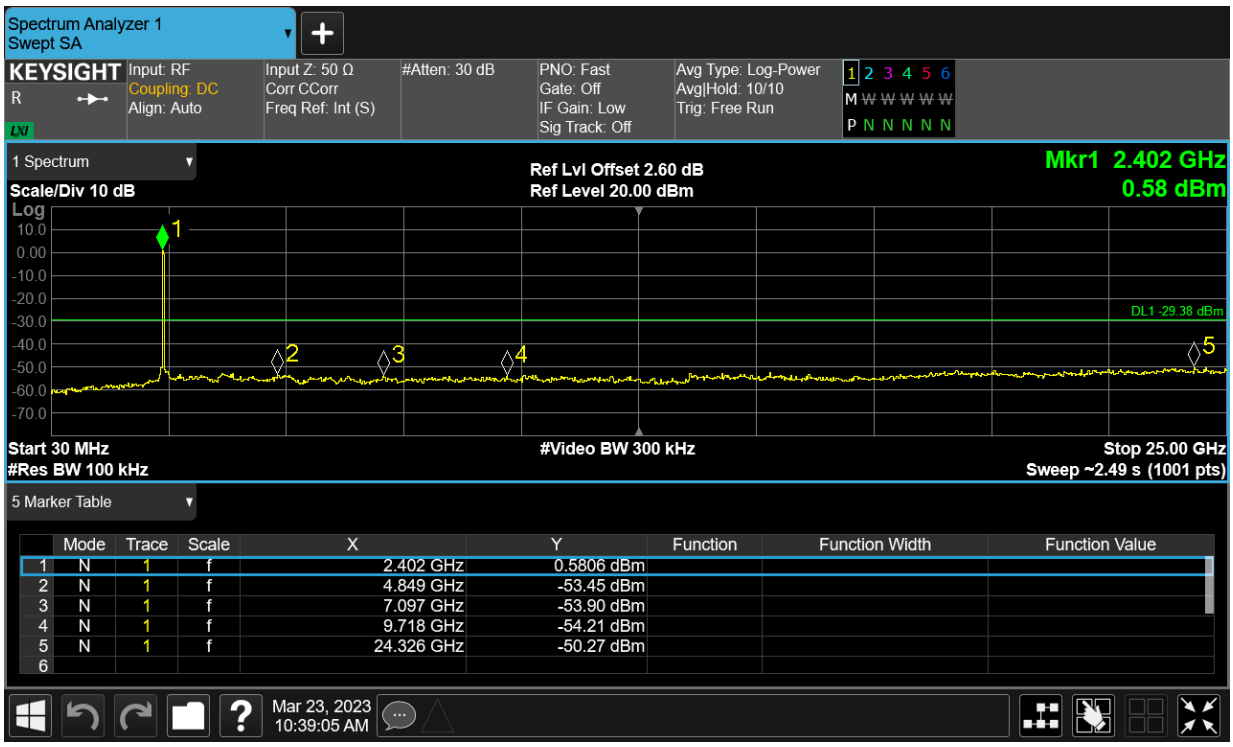


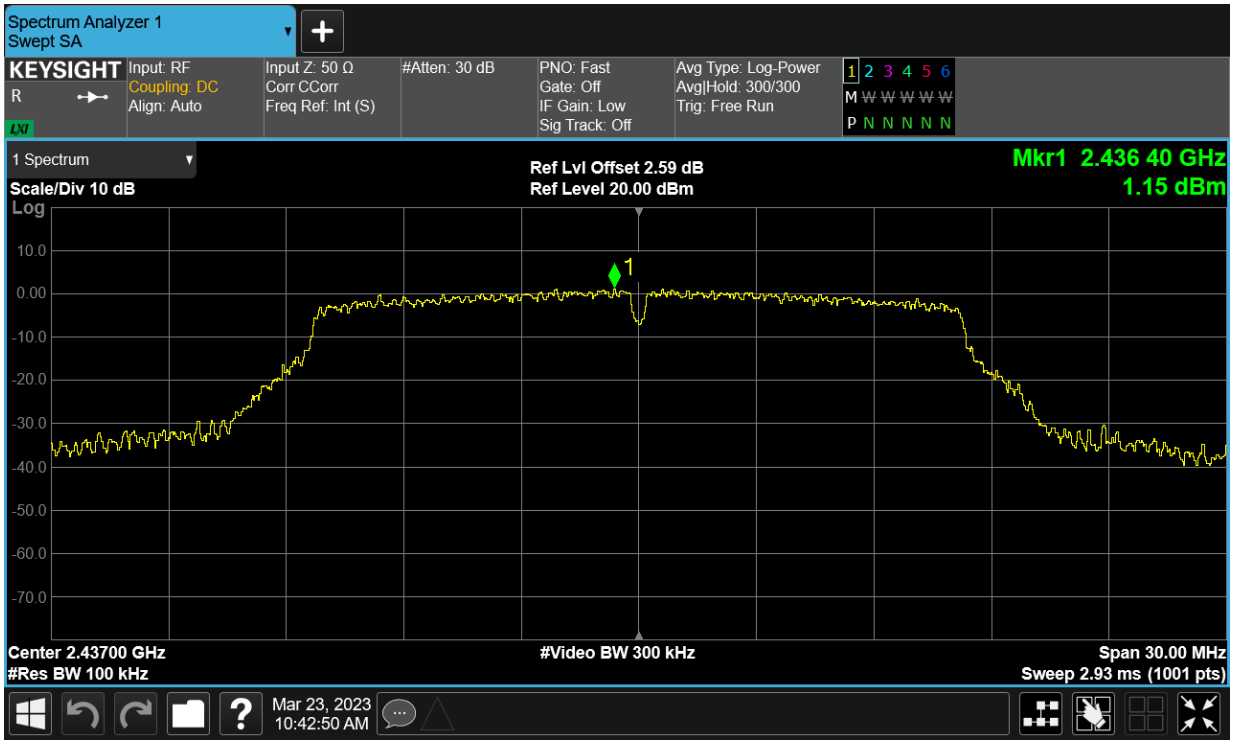
Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



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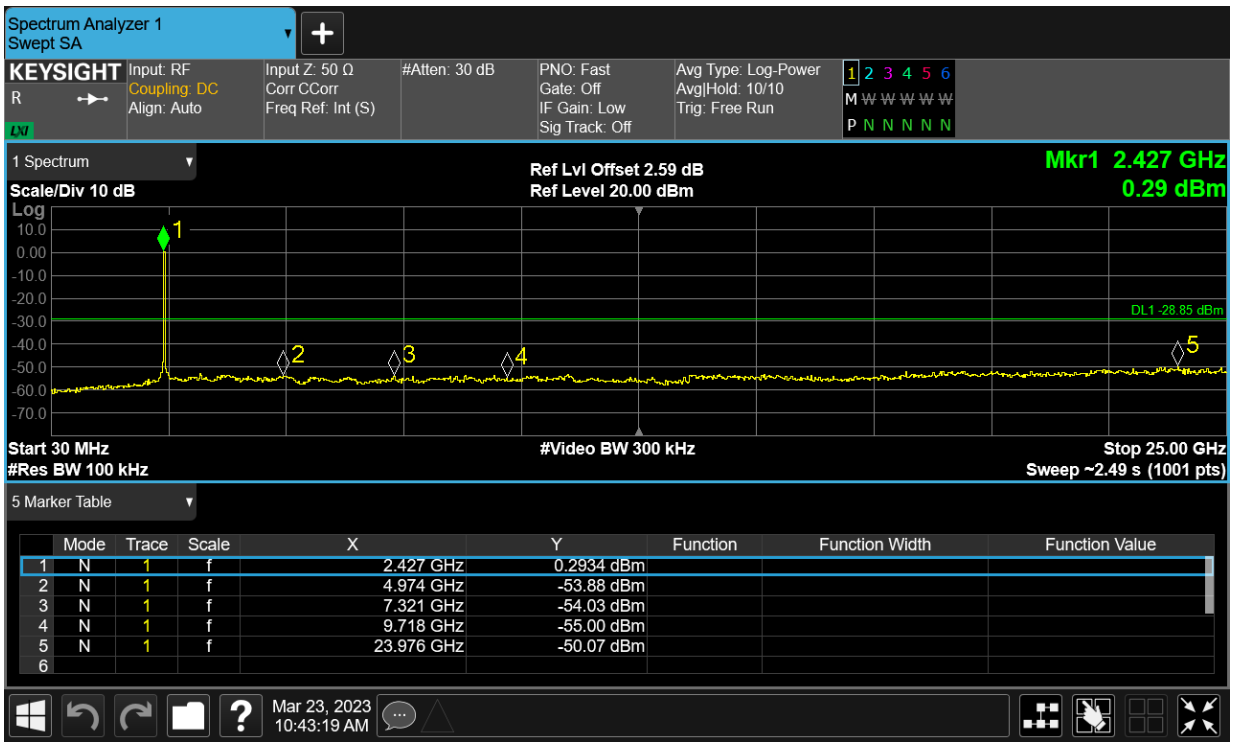
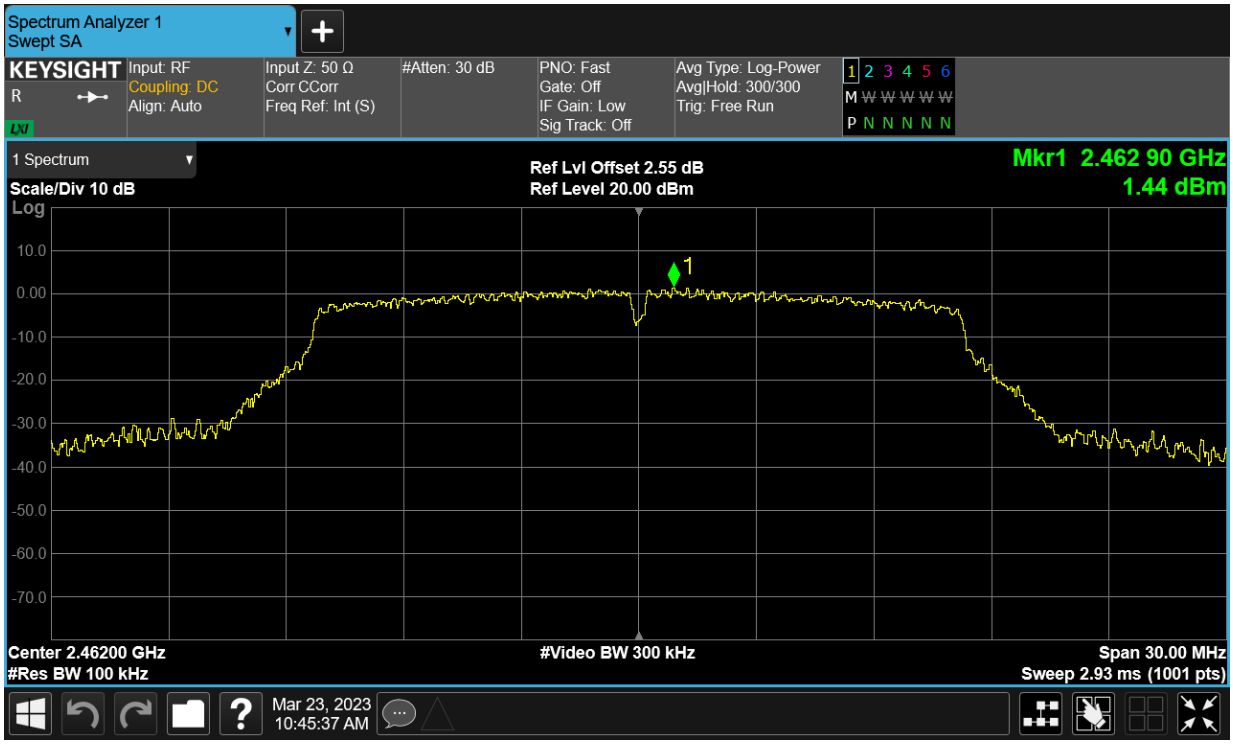
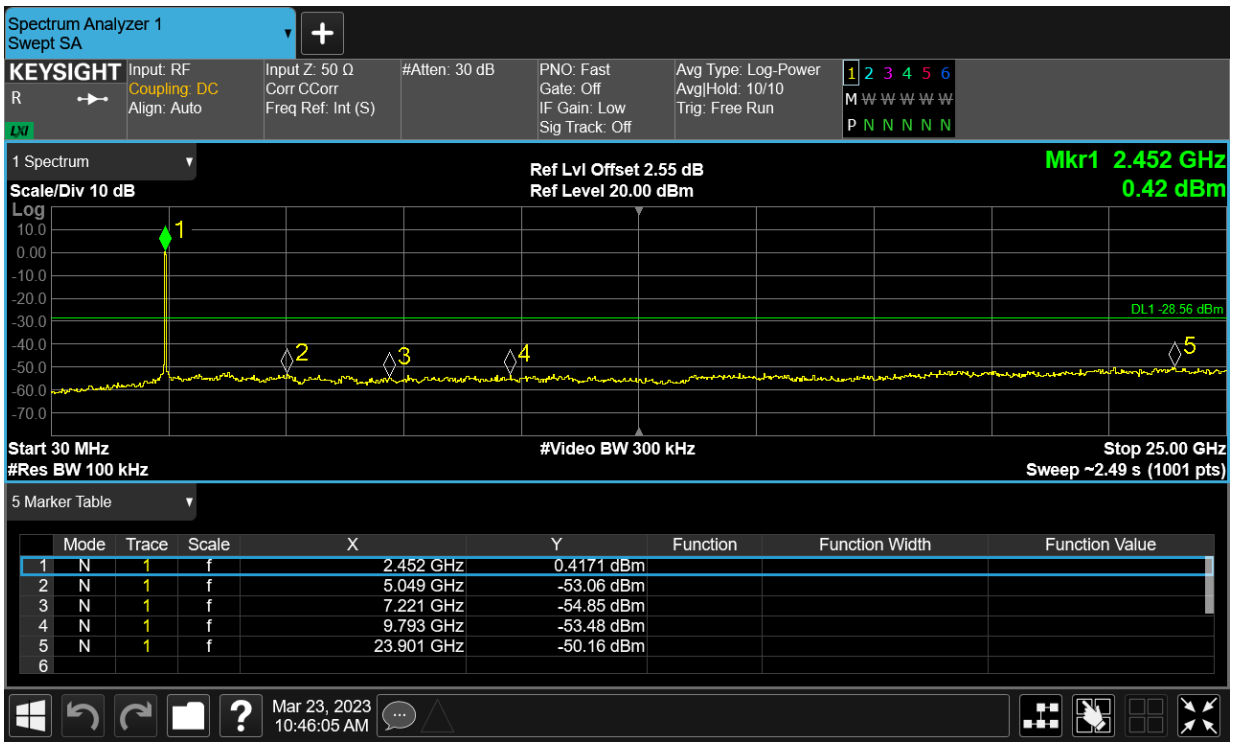


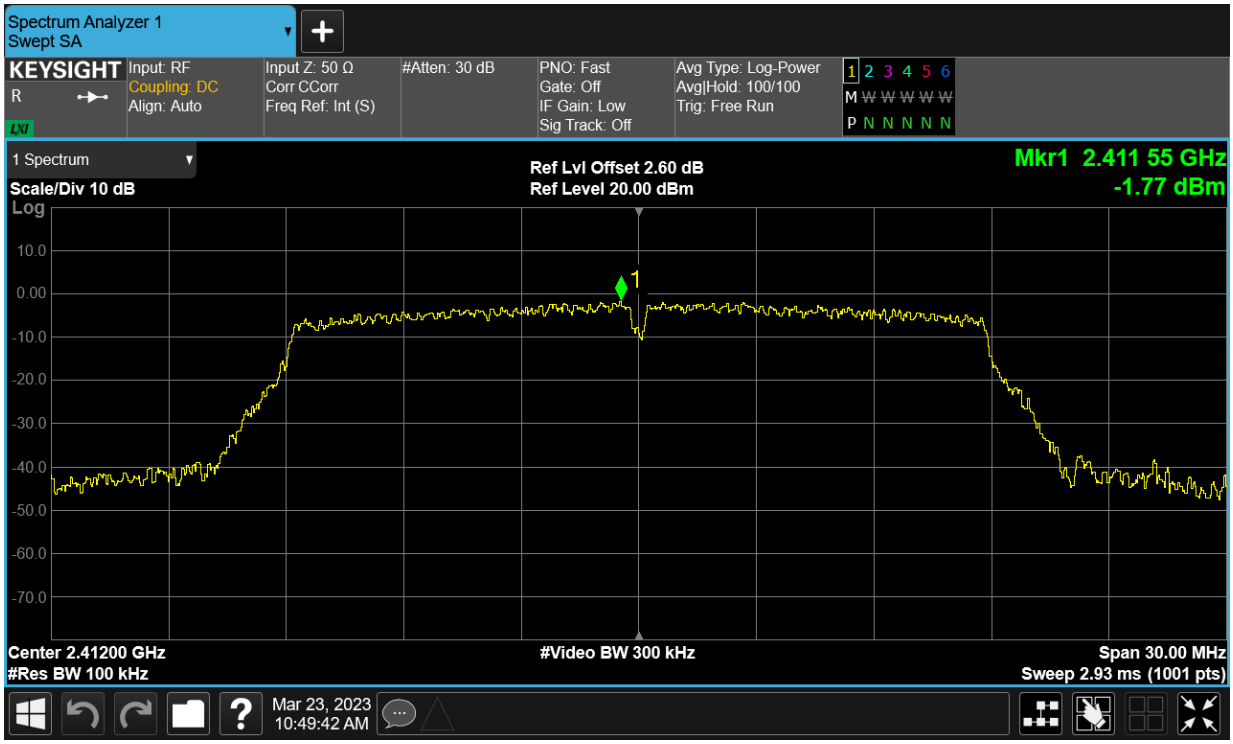
Tx. Spurious NVNT g 2462MHz Ant1 Ref



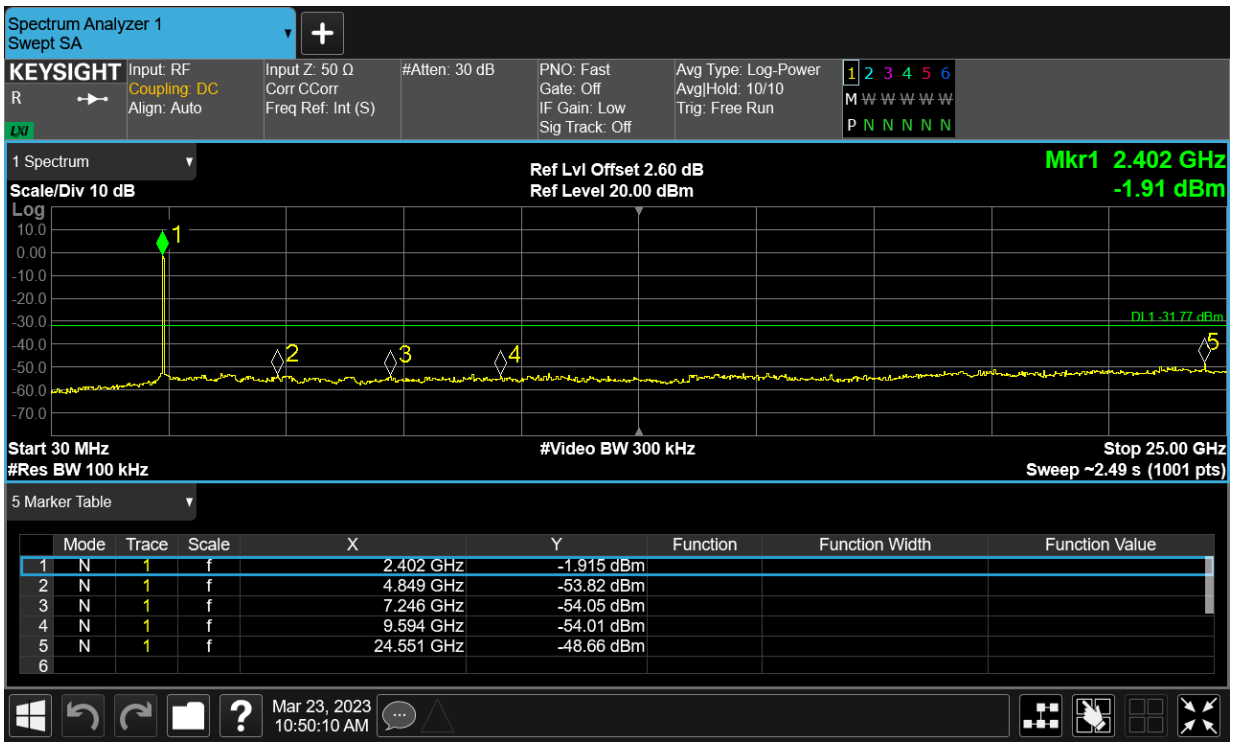
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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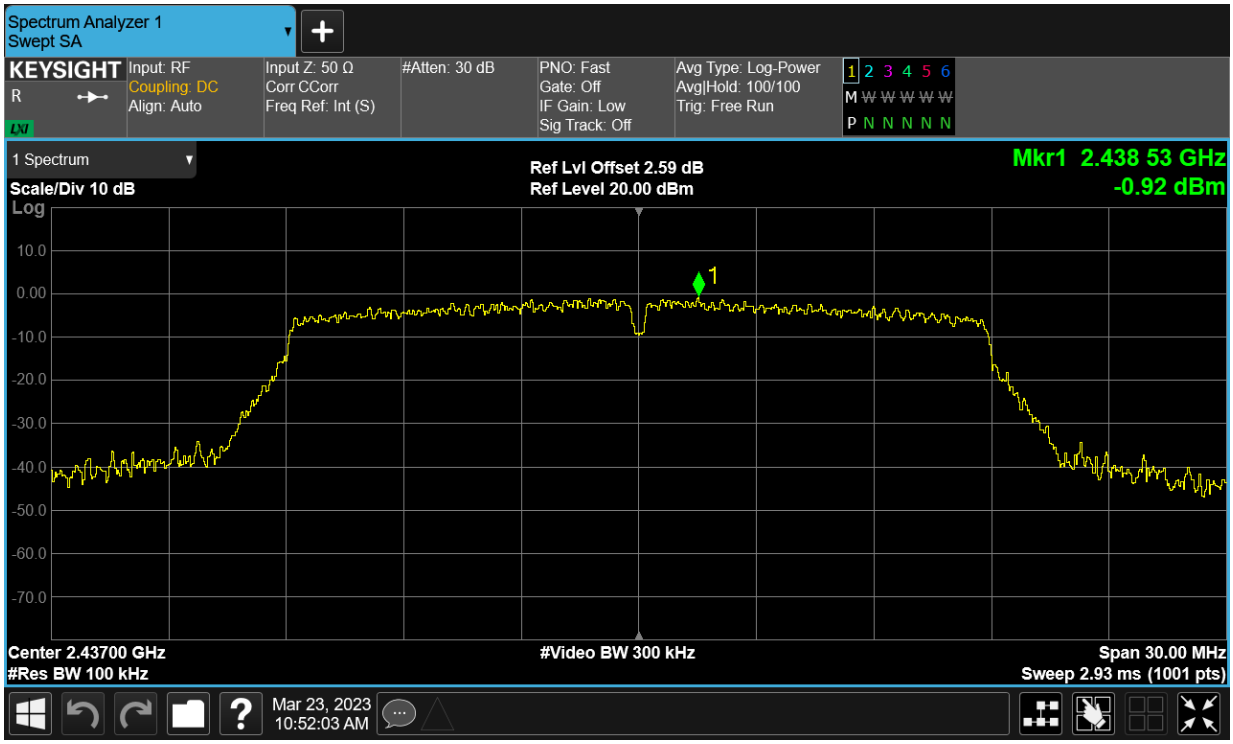
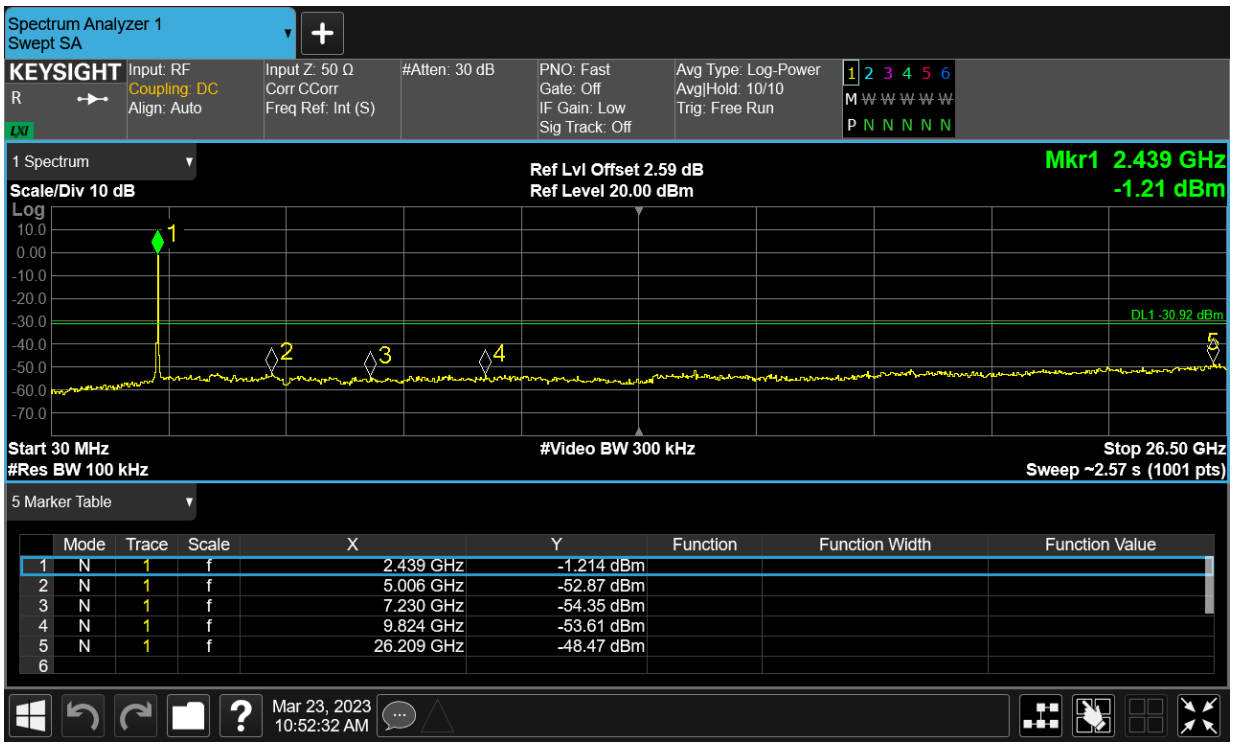


Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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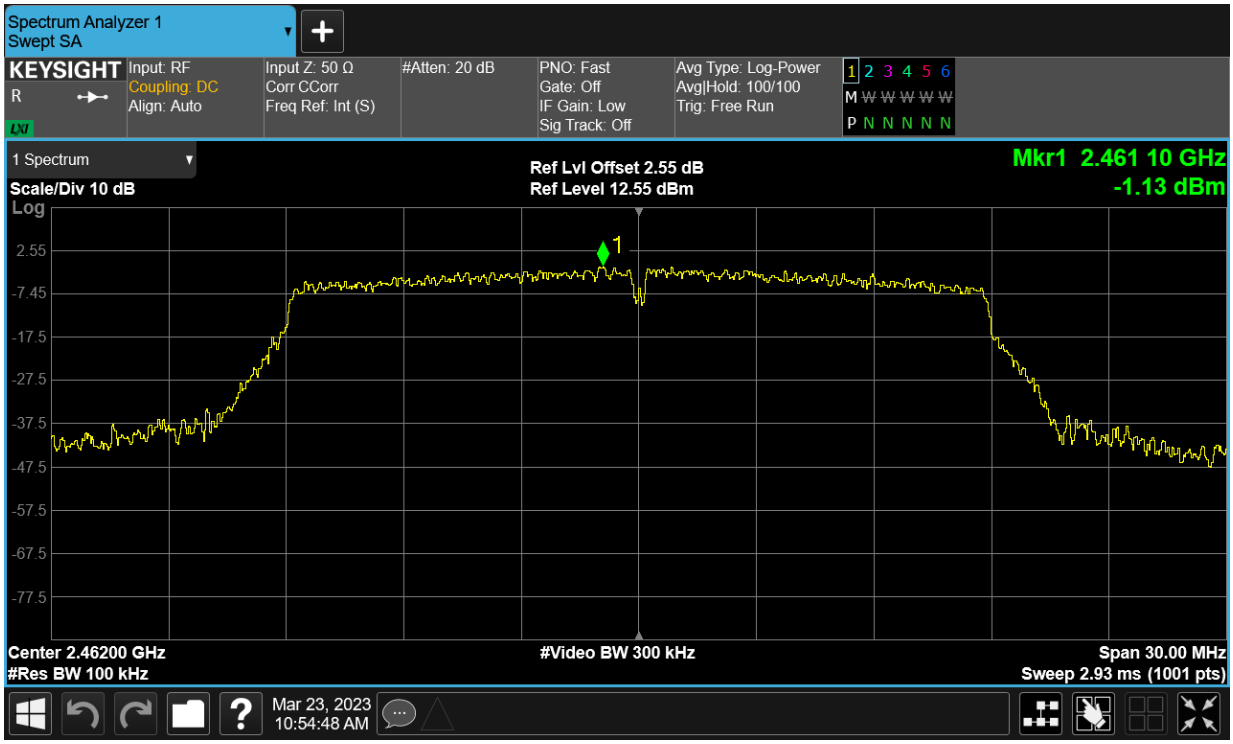
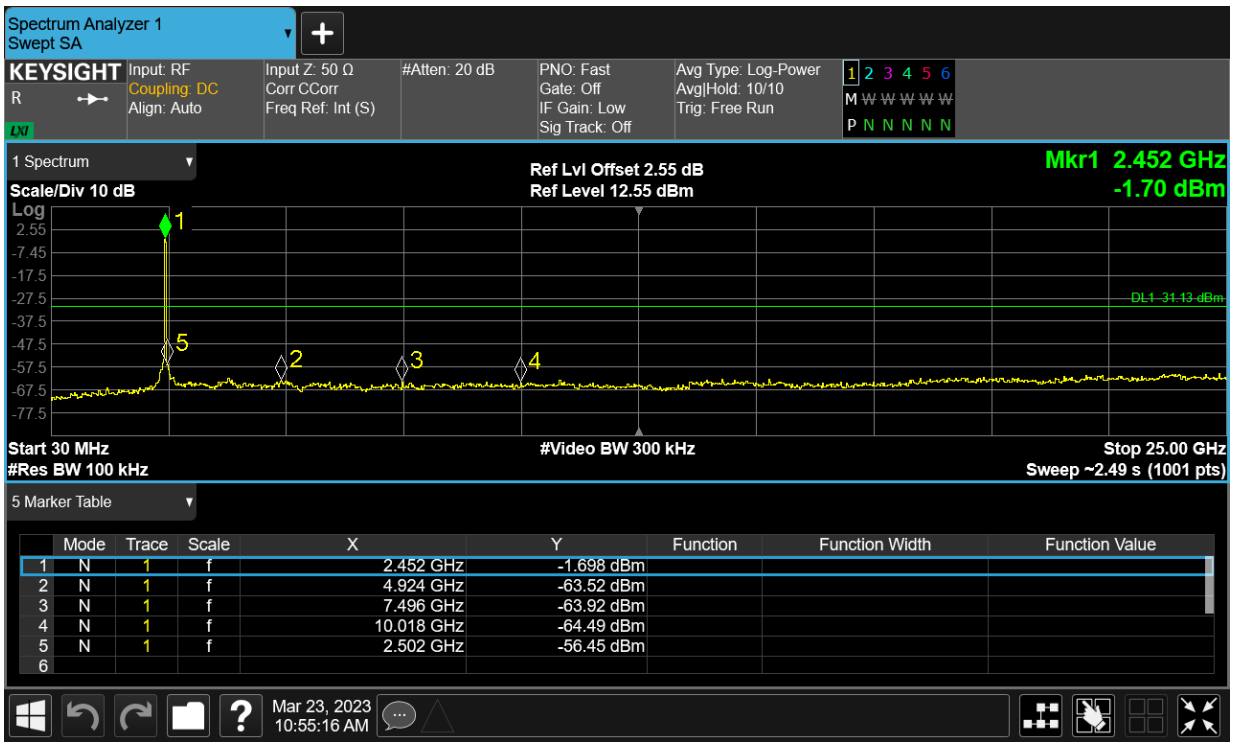


Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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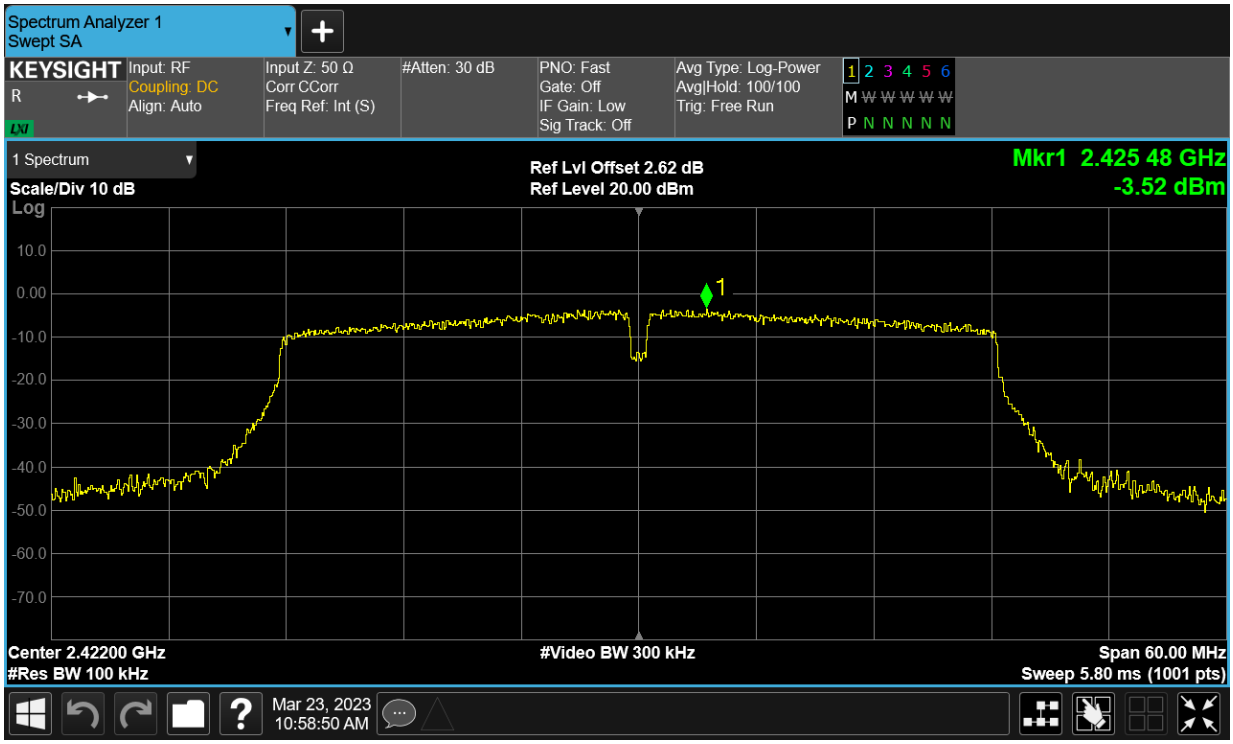
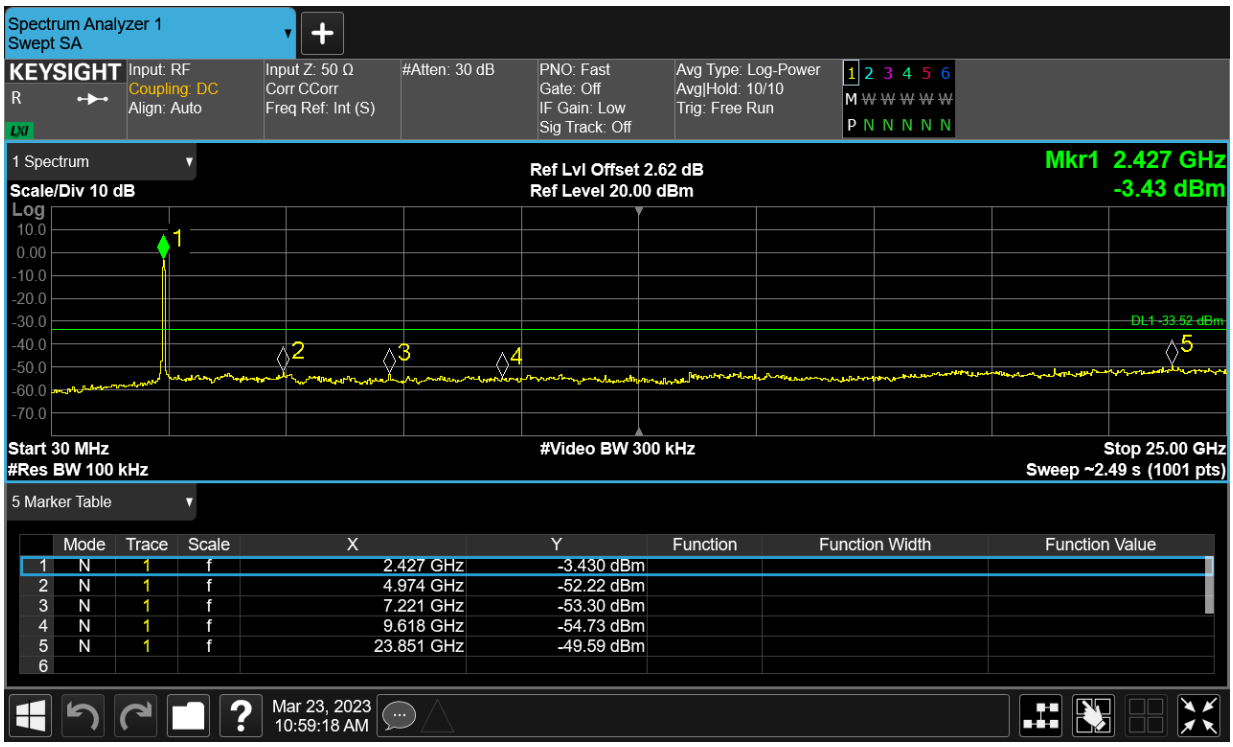
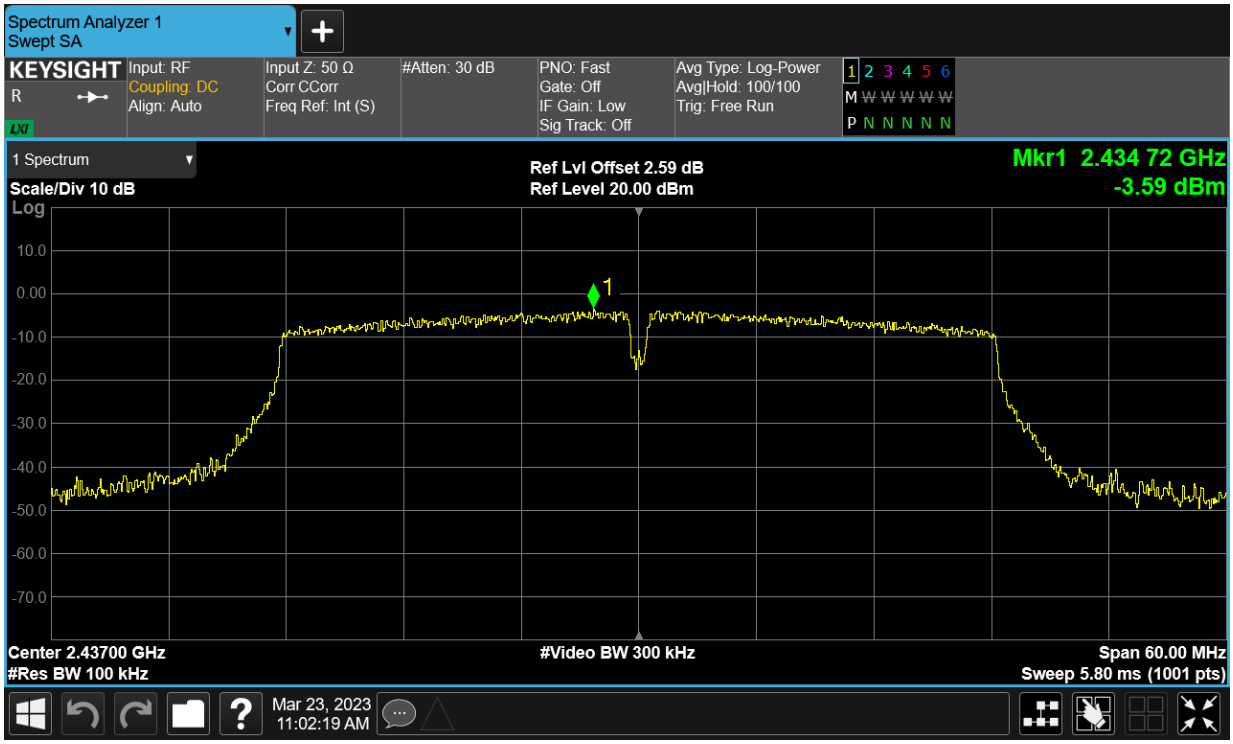


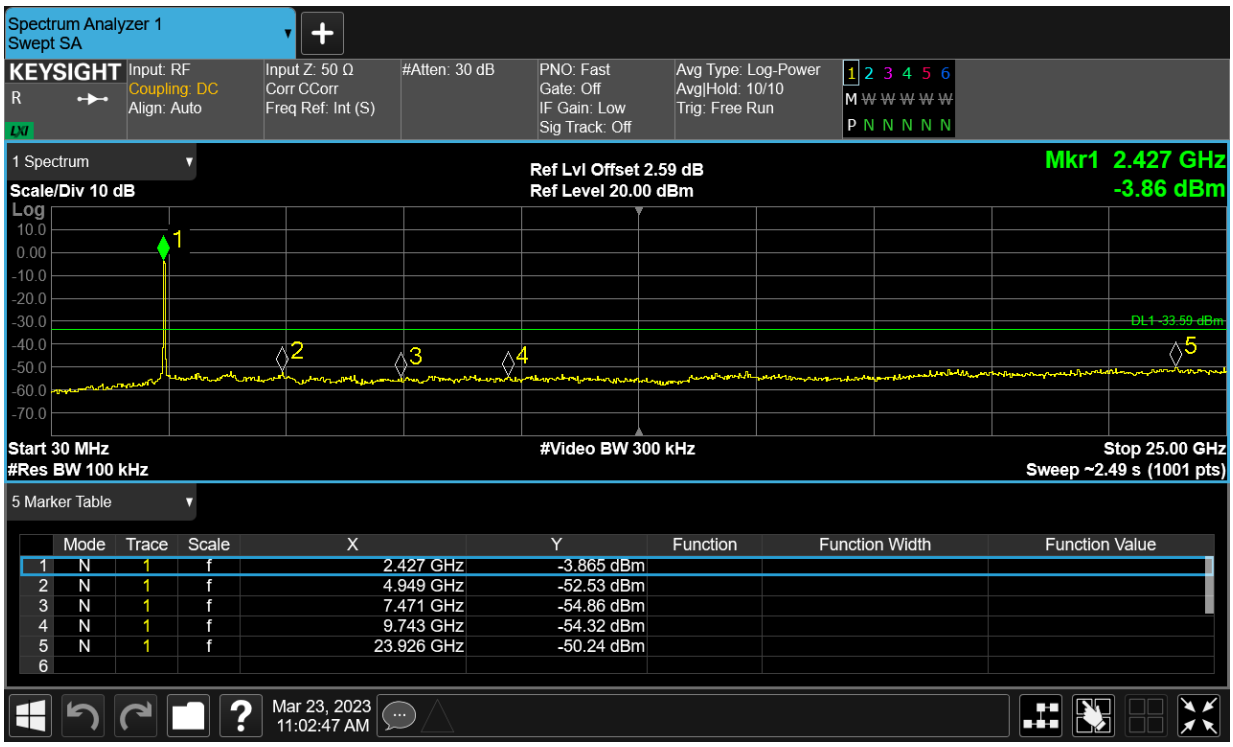
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



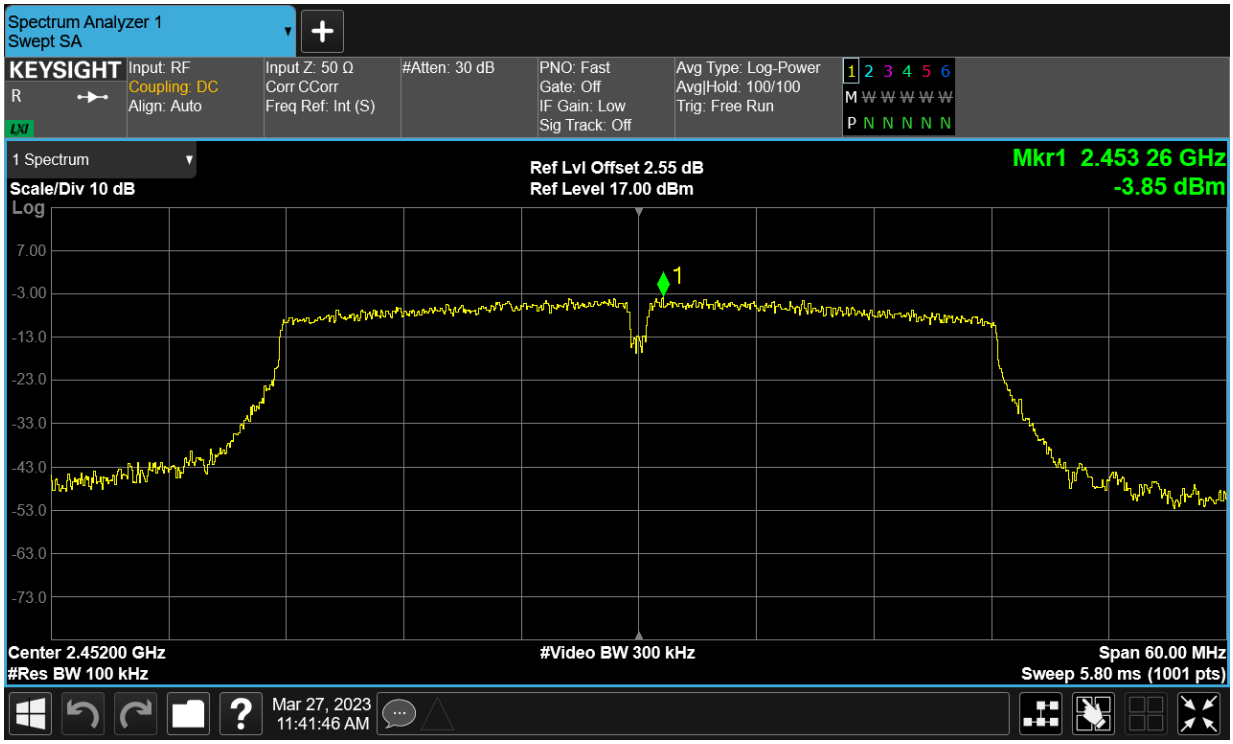
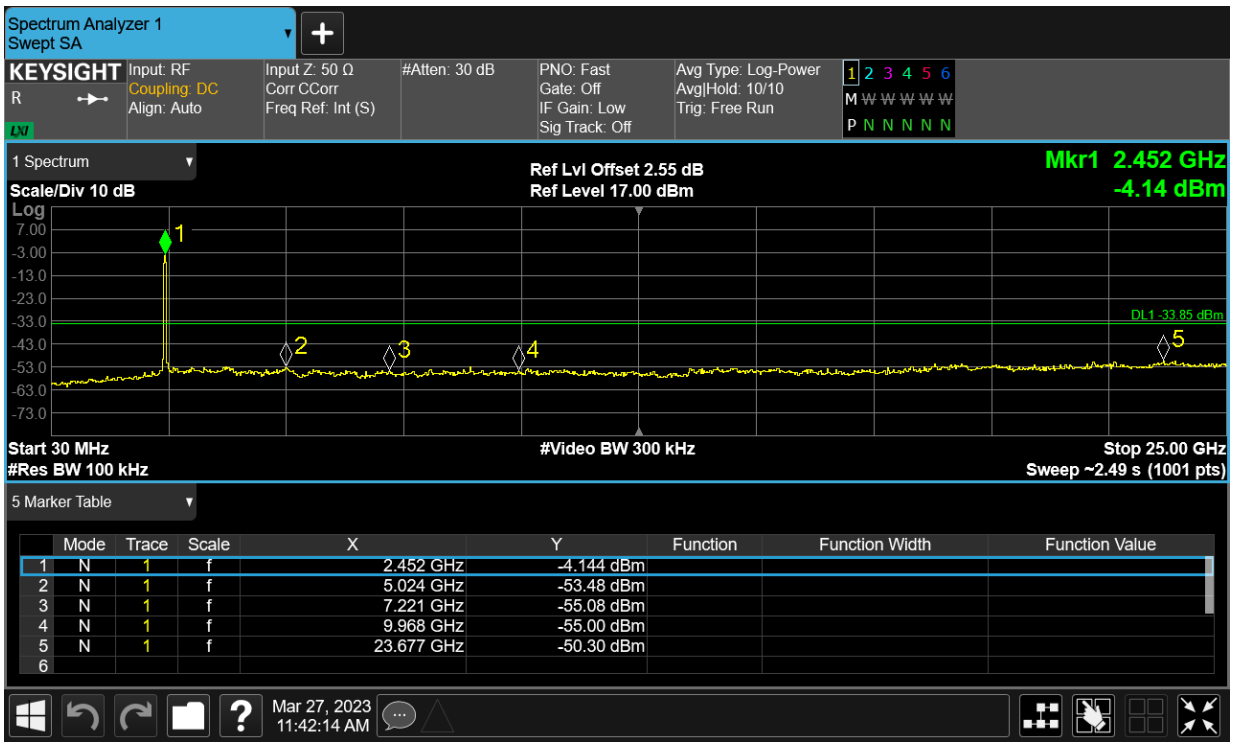
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission