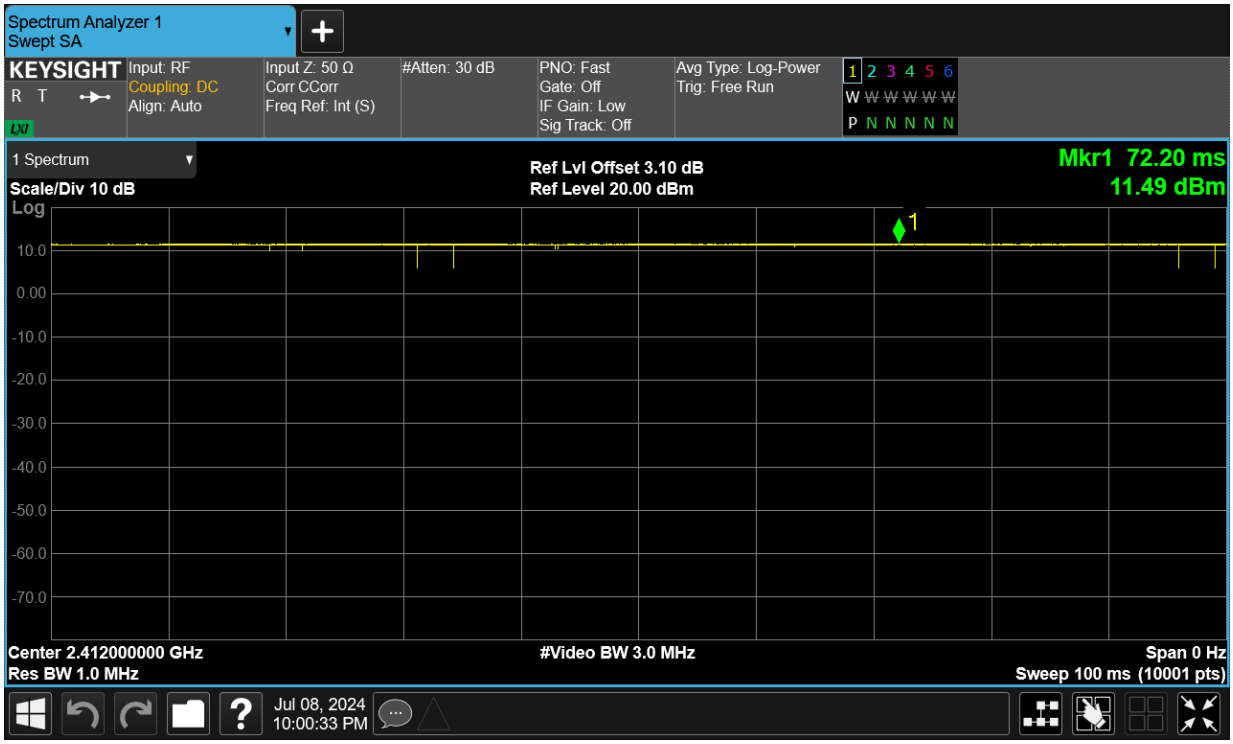
Test Data

Duty Cycle

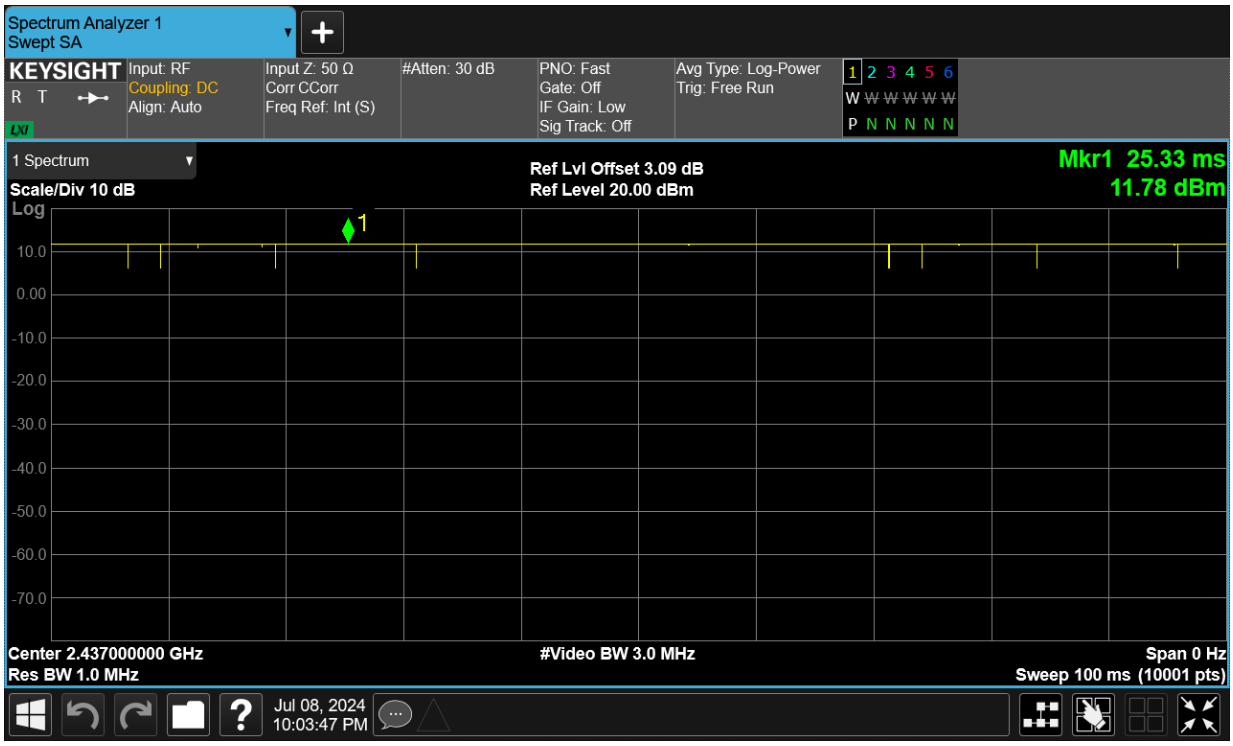
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant4	100	0
NVNT	b	2437	Ant4	100	0
NVNT	b	2462	Ant4	100	0
NVNT	g	2412	Ant4	100	0
NVNT	g	2437	Ant4	100	0
NVNT	g	2462	Ant4	100	0
NVNT	n20	2412	Ant4	100	0
NVNT	n20	2437	Ant4	100	0
NVNT	n20	2462	Ant4	100	0
NVNT	n40	2422	Ant4	100	0
NVNT	n40	2437	Ant4	100	0
NVNT	n40	2452	Ant4	100	0

Test Graphs

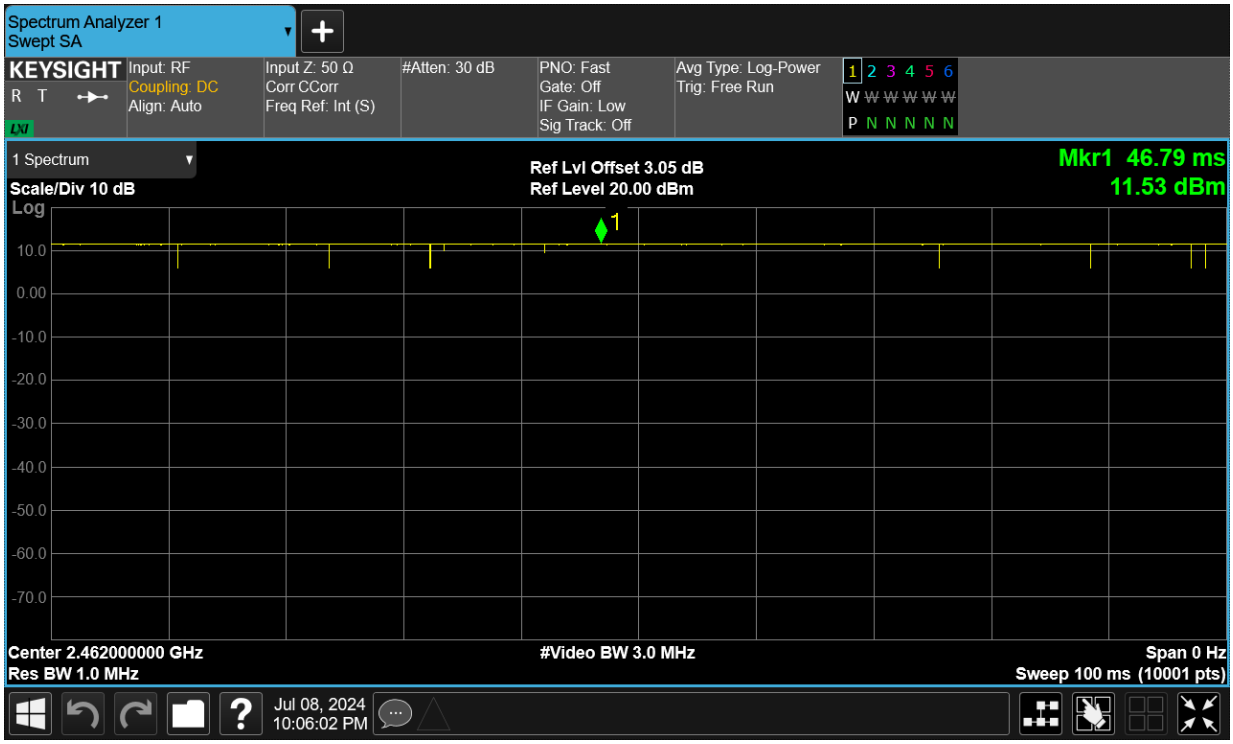
Duty Cycle NVNT b 2412MHz Ant4



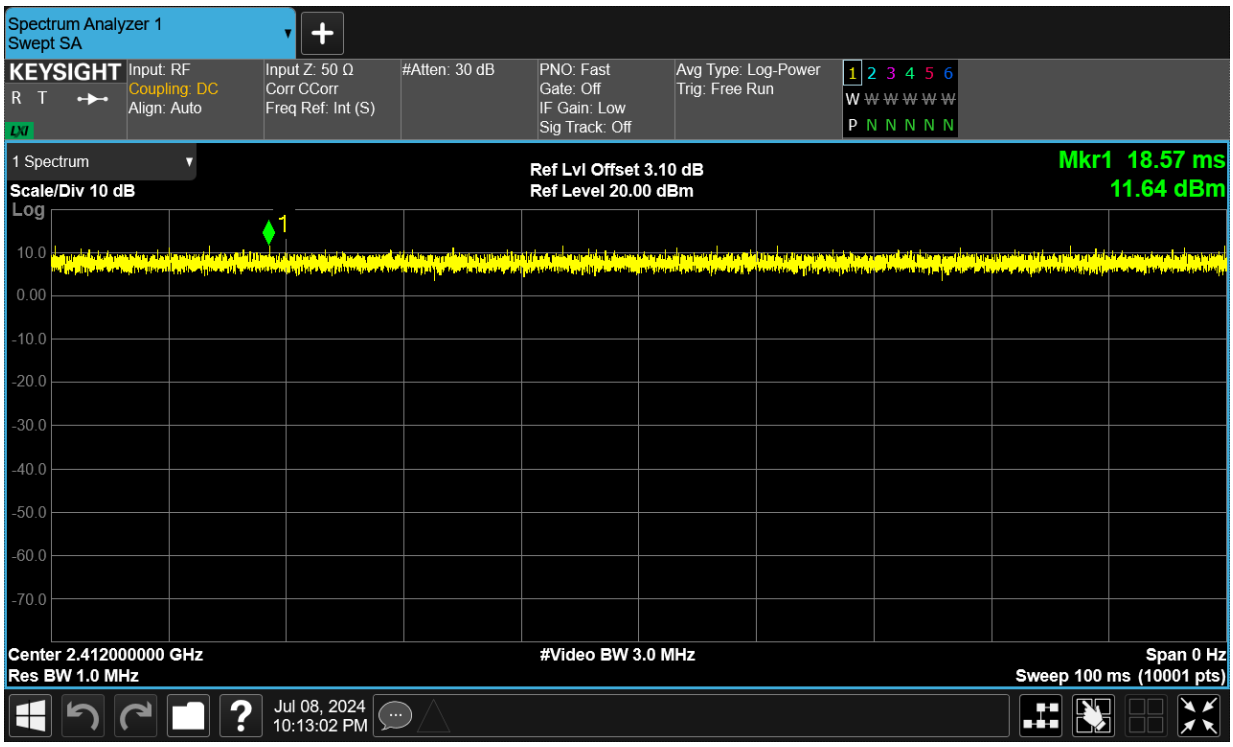
Duty Cycle NVNT b 2437MHz Ant4



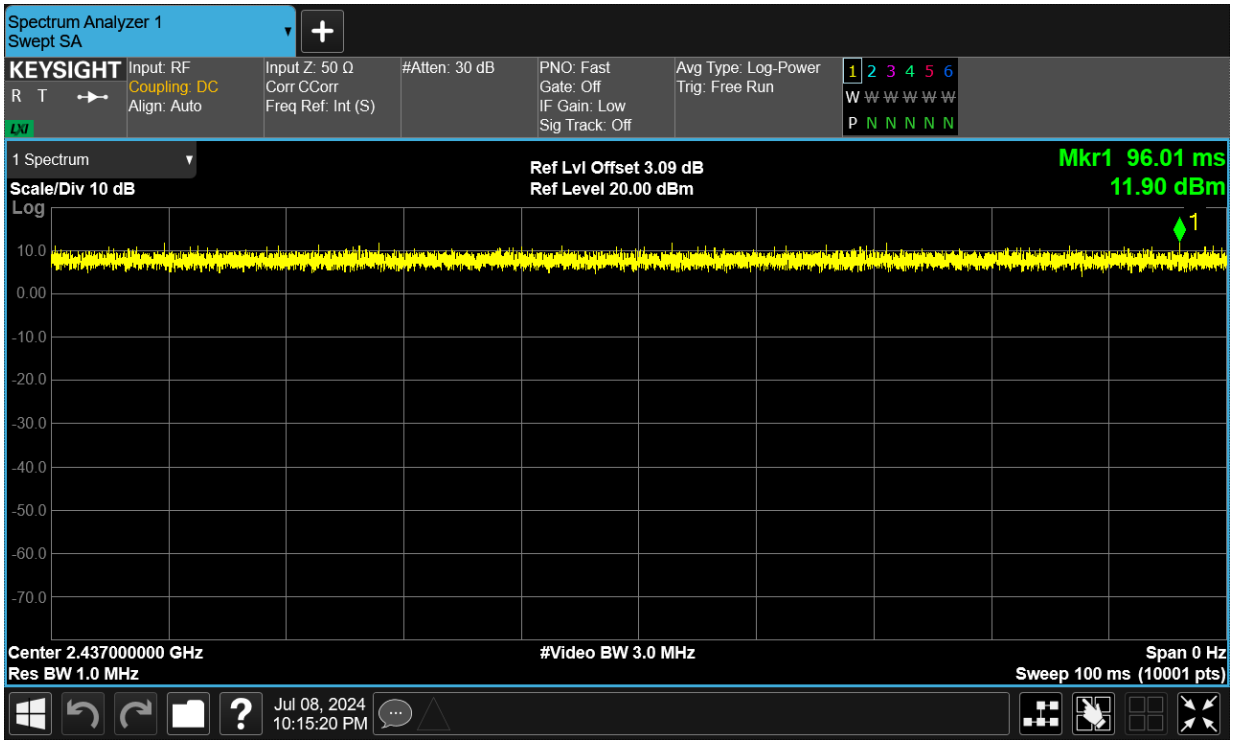
Duty Cycle NVNT b 2462MHz Ant4



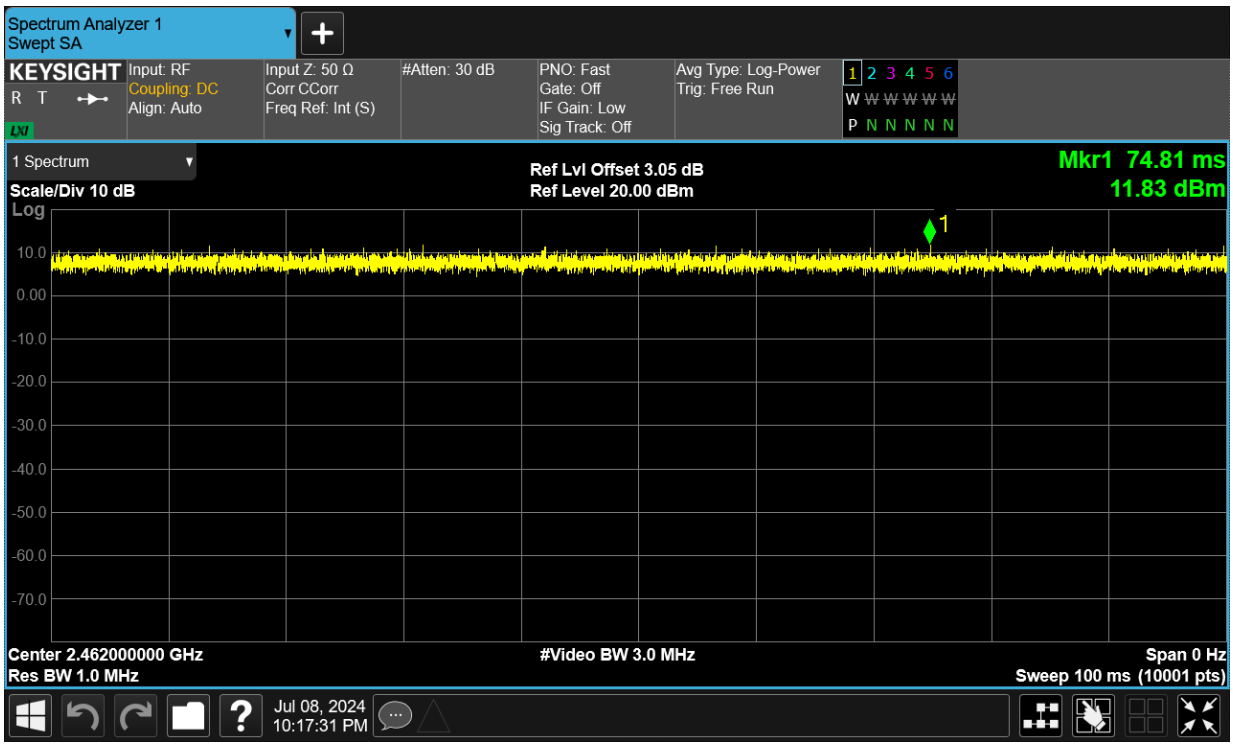
Duty Cycle NVNT g 2412MHz Ant4



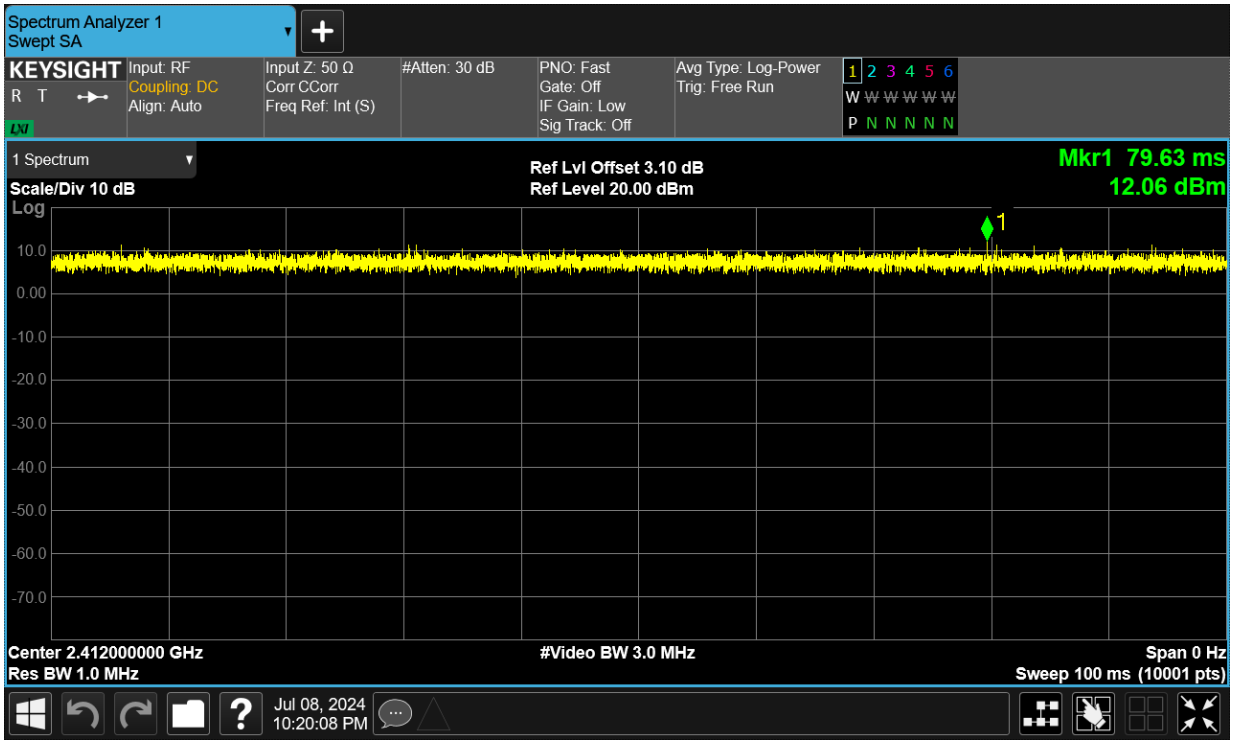
Duty Cycle NVNT g 2437MHz Ant4



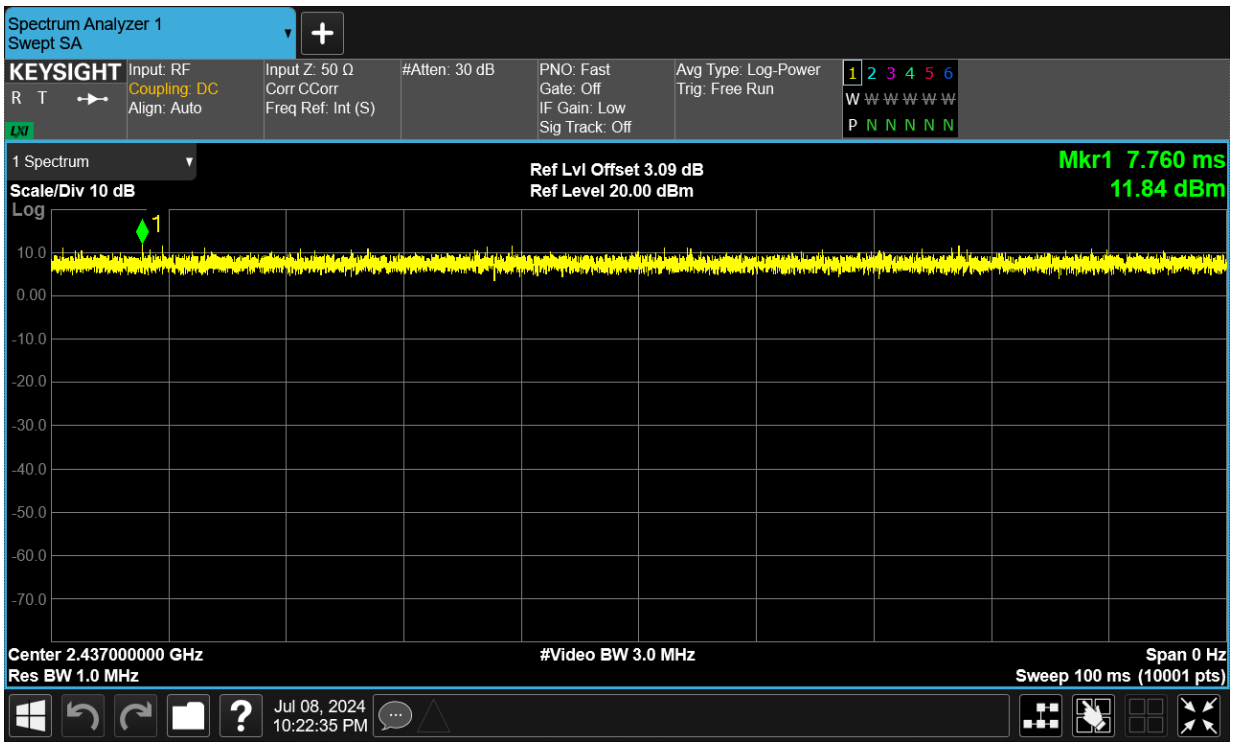
Duty Cycle NVNT g 2462MHz Ant4



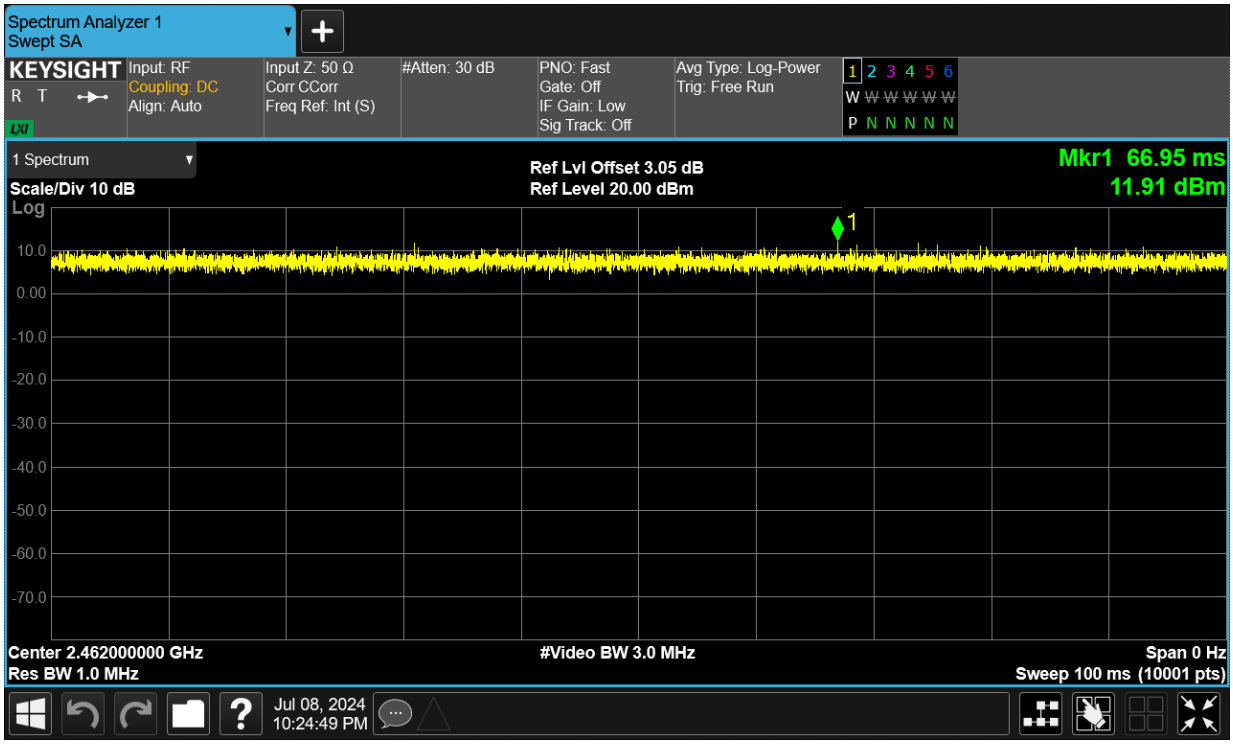
Duty Cycle NVNT n20 2412MHz Ant4



Duty Cycle NVNT n20 2437MHz Ant4

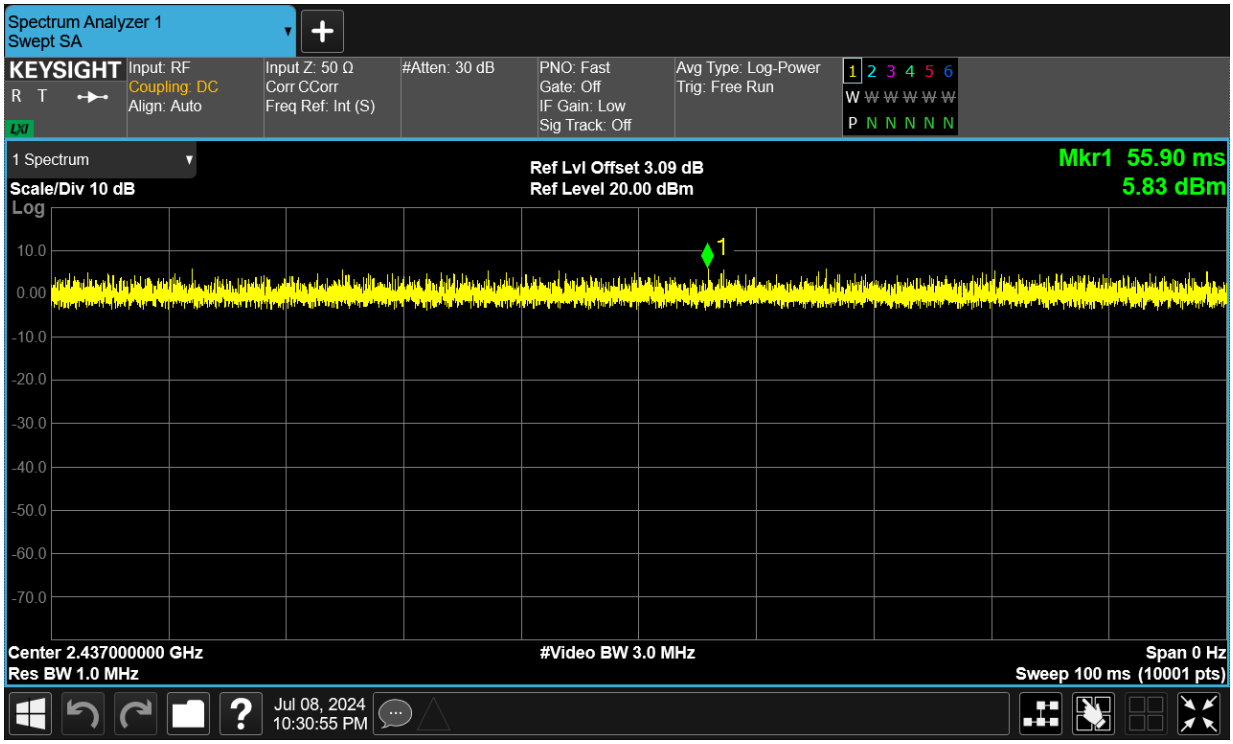


Duty Cycle NVNT n20 2462MHz Ant4

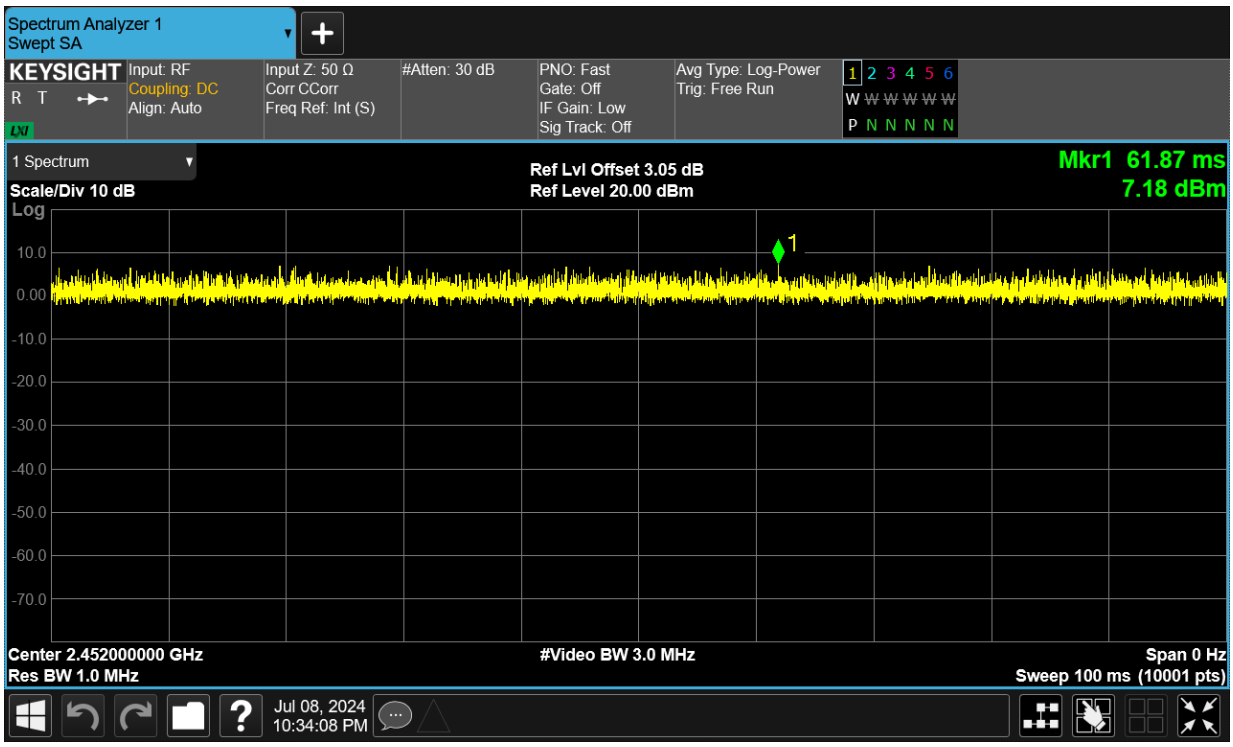


Duty Cycle NVNT n40 2422MHz Ant4

Duty Cycle NVNT n40 2437MHz Ant4



Duty Cycle NVNT n40 2452MHz Ant4



Maximum Conducted Output Power

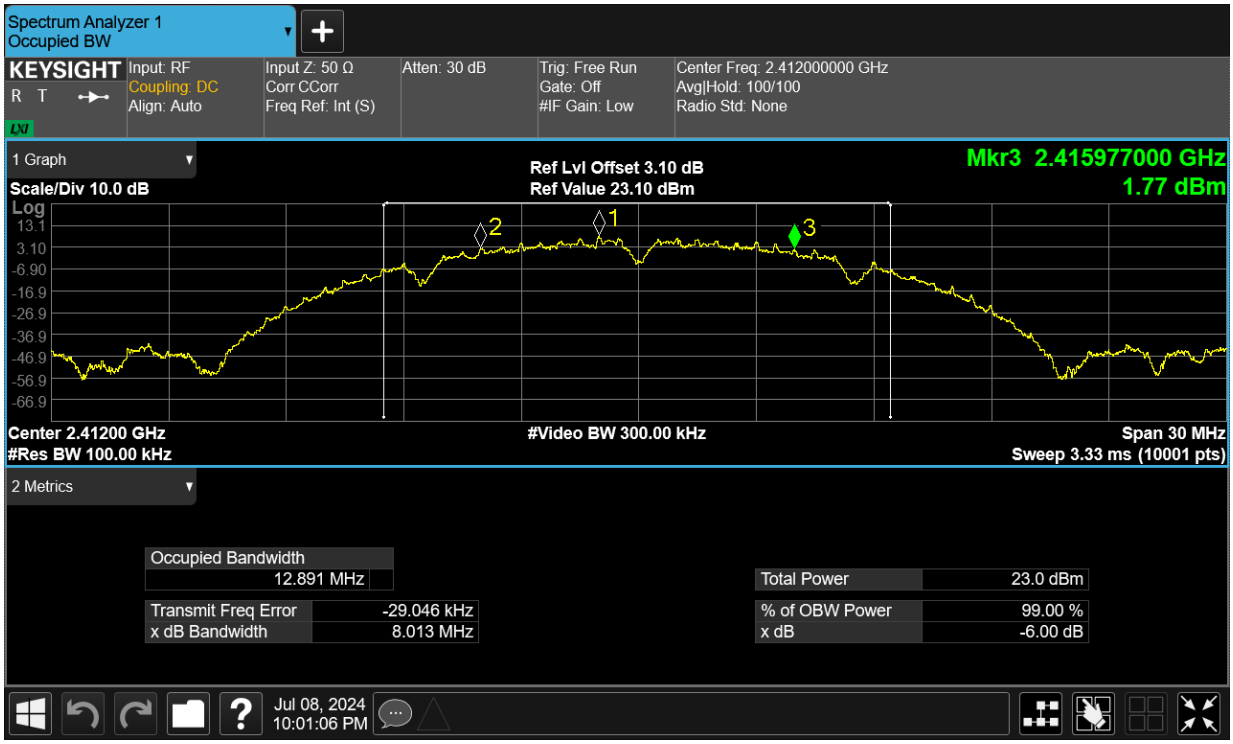
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant4	16.99	0	16.99	30	Pass
NVNT	b	2437	Ant4	16.93	0	16.93	30	Pass
NVNT	b	2462	Ant4	16.63	0	16.63	30	Pass
NVNT	g	2412	Ant4	14.41	0	14.41	30	Pass
NVNT	g	2437	Ant4	14.25	0	14.25	30	Pass
NVNT	g	2462	Ant4	14.14	0	14.14	30	Pass
NVNT	n20	2412	Ant4	14.27	0	14.27	30	Pass
NVNT	n20	2437	Ant4	14.12	0	14.12	30	Pass
NVNT	n20	2462	Ant4	14.03	0	14.03	30	Pass
NVNT	n40	2422	Ant4	13.51	0	13.51	30	Pass
NVNT	n40	2437	Ant4	13.25	0	13.25	30	Pass
NVNT	n40	2452	Ant4	13.48	0	13.48	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	b	2412	Ant4	8.013	0.5	Pass
NVNT	b	2437	Ant4	7.524	0.5	Pass
NVNT	b	2462	Ant4	8.047	0.5	Pass
NVNT	g	2412	Ant4	16.323	0.5	Pass
NVNT	g	2437	Ant4	16.333	0.5	Pass
NVNT	g	2462	Ant4	16.363	0.5	Pass
NVNT	n20	2412	Ant4	17.582	0.5	Pass
NVNT	n20	2437	Ant4	17.649	0.5	Pass
NVNT	n20	2462	Ant4	17.622	0.5	Pass
NVNT	n40	2422	Ant4	36.346	0.5	Pass
NVNT	n40	2437	Ant4	35.726	0.5	Pass
NVNT	n40	2452	Ant4	32.526	0.5	Pass

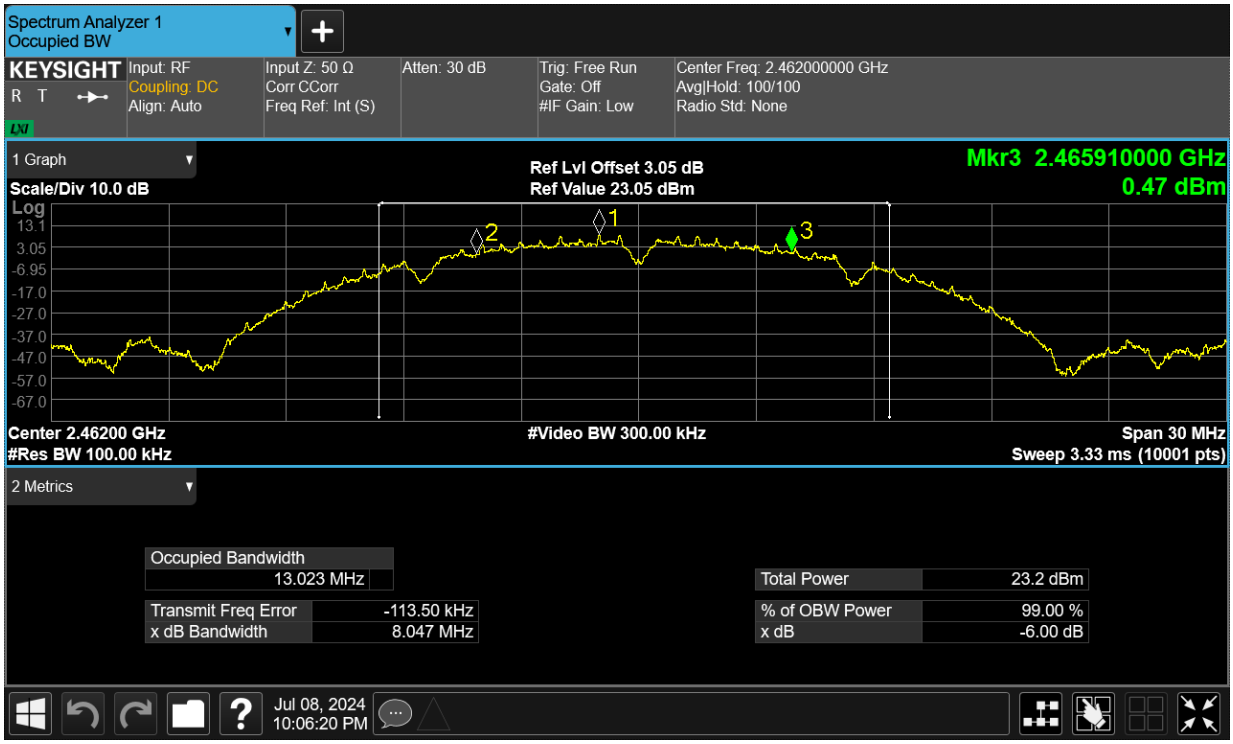
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant4

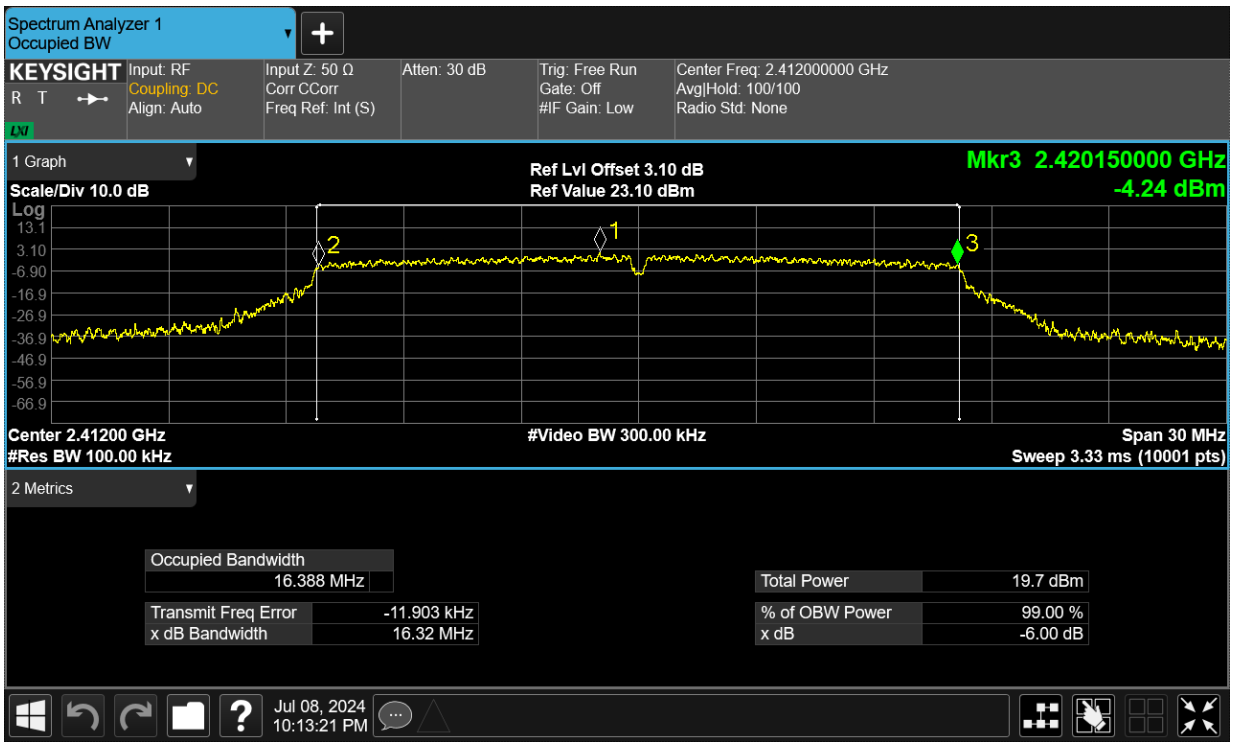


-6dB Bandwidth NVNT b 2437MHz Ant4

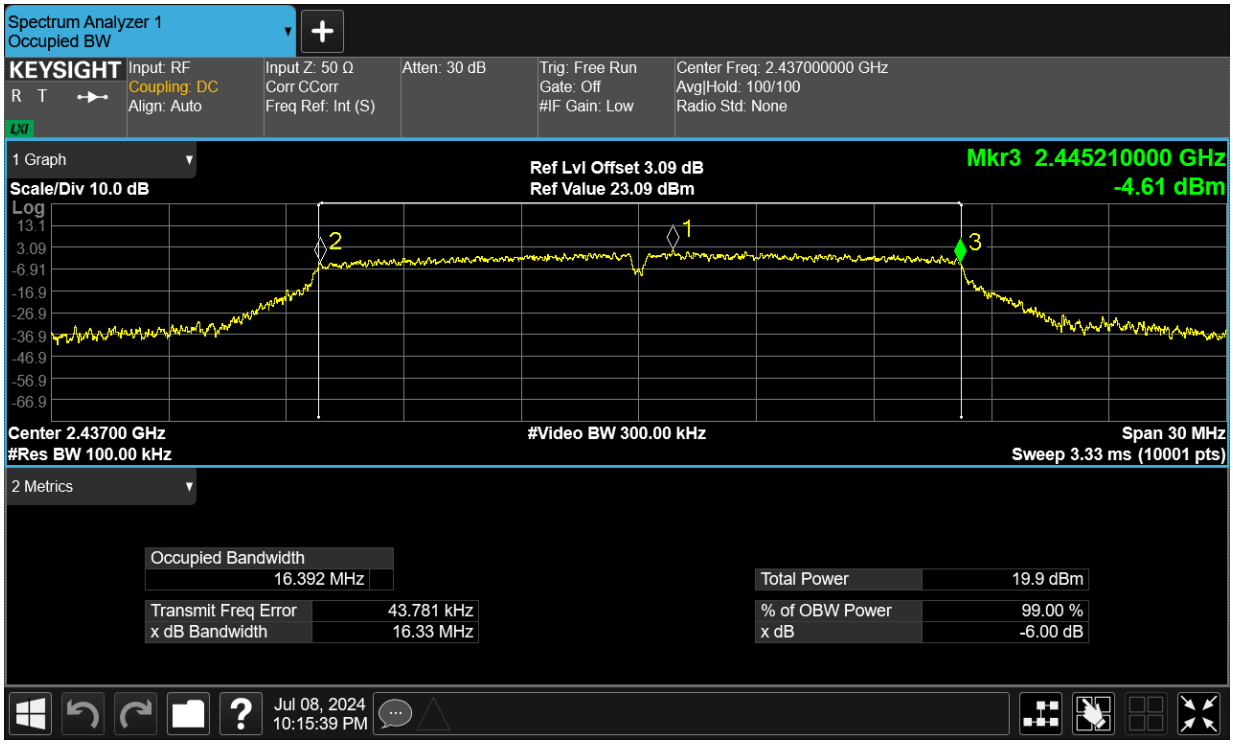
-6dB Bandwidth NVNT b 2462MHz Ant4



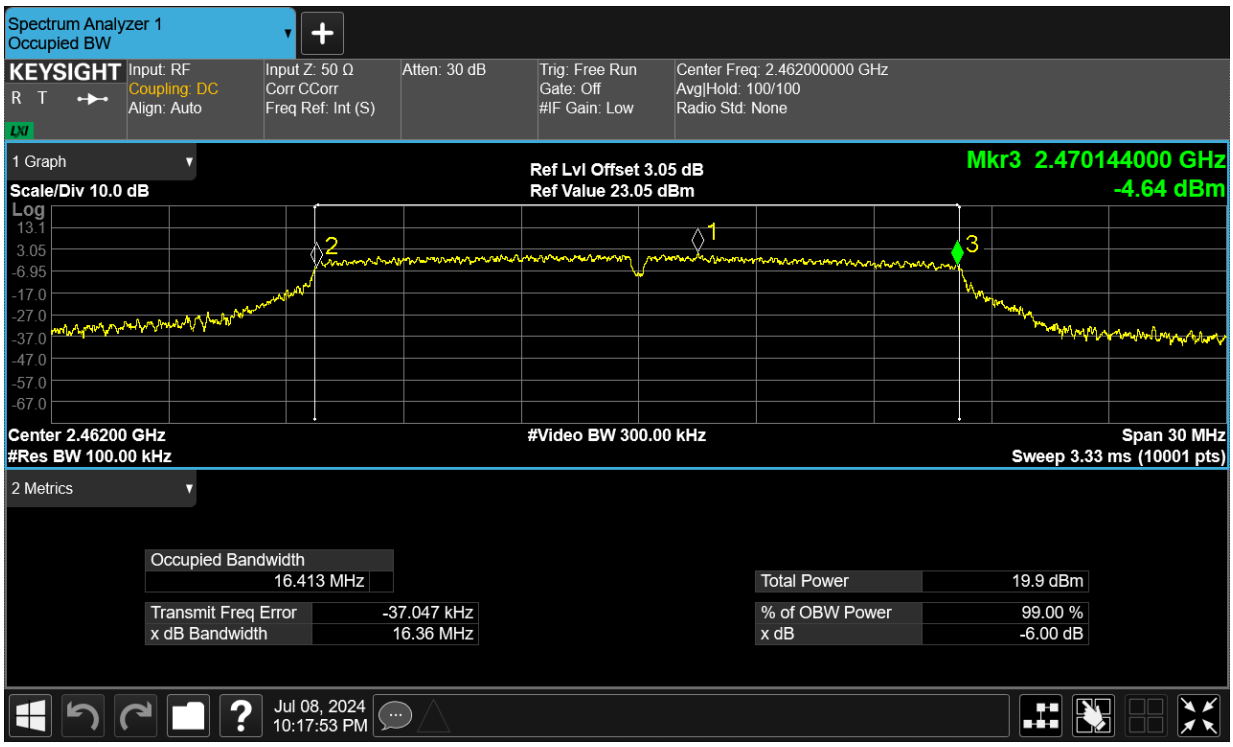
-6dB Bandwidth NVNT g 2412MHz Ant4



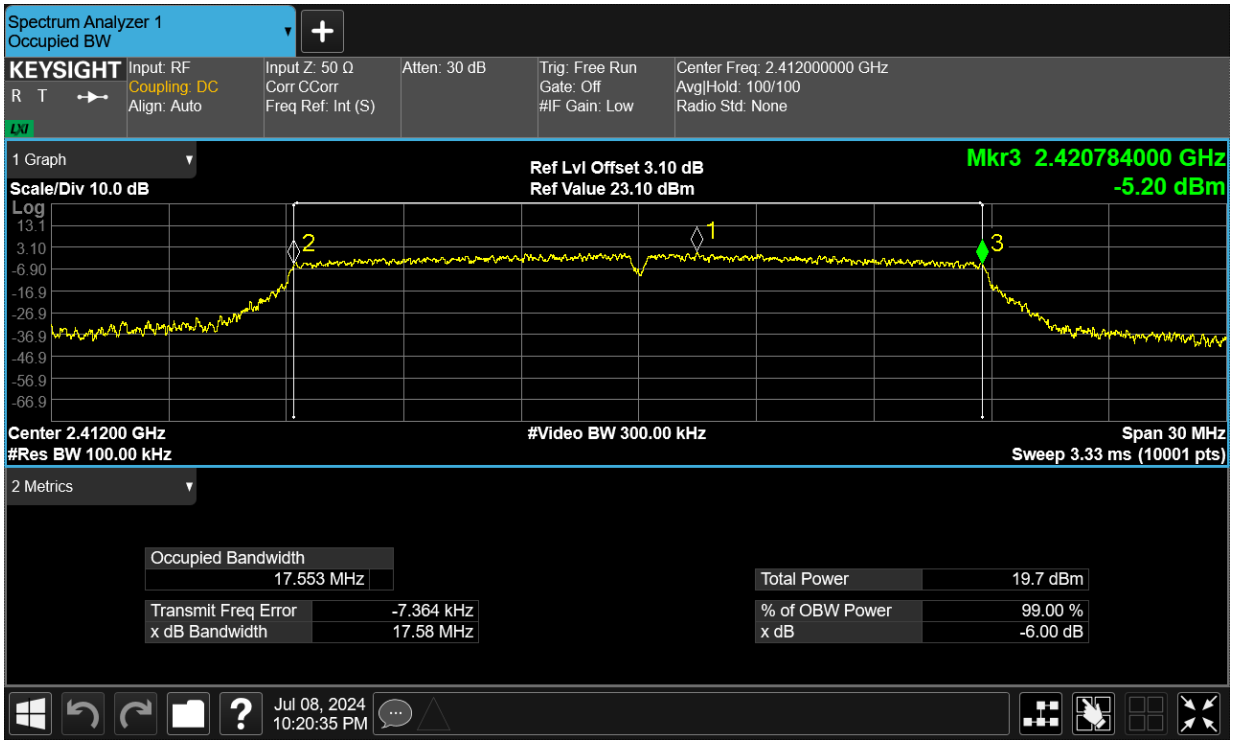
-6dB Bandwidth NVNT g 2437MHz Ant4



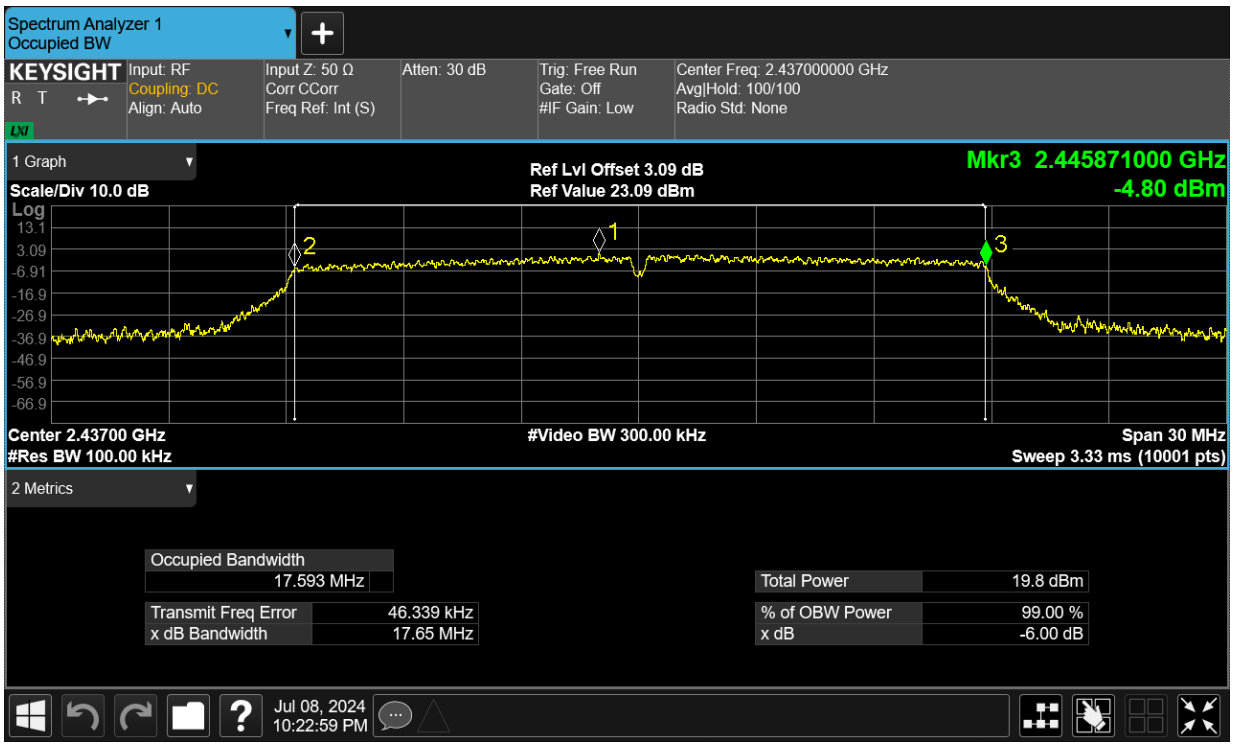
-6dB Bandwidth NVNT g 2462MHz Ant4



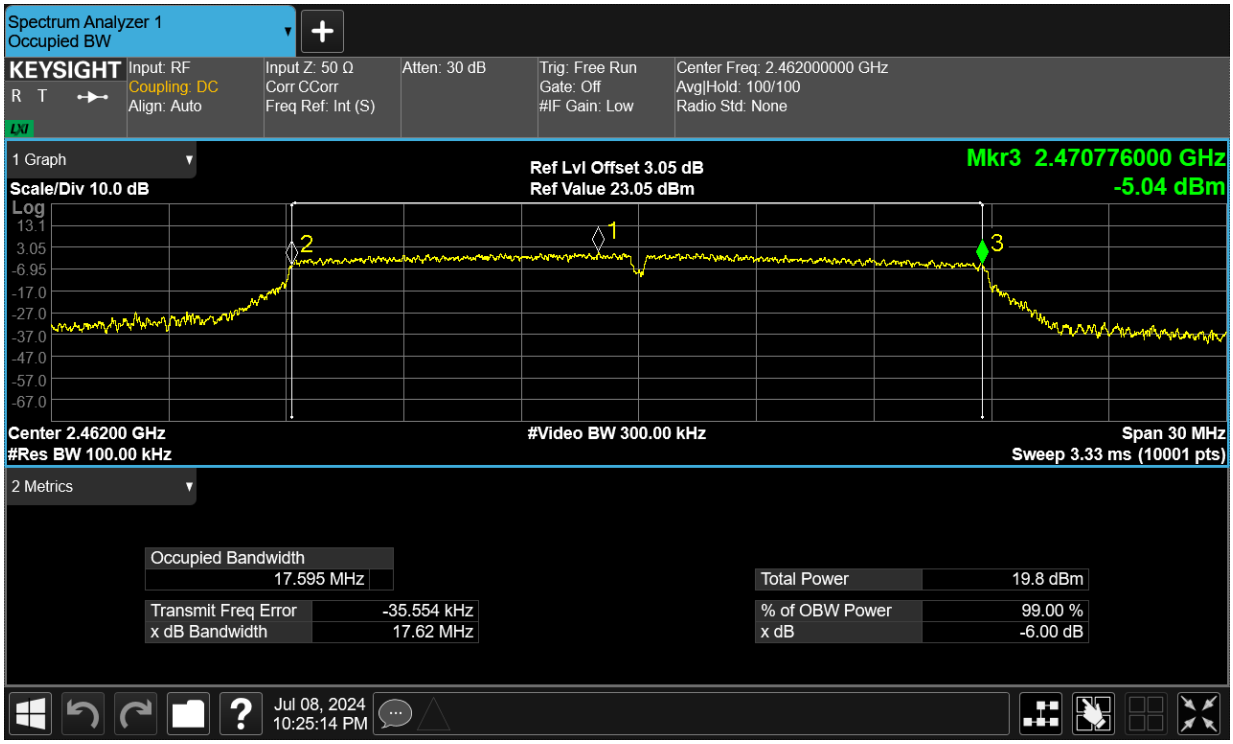
-6dB Bandwidth NVNT n20 2412MHz Ant4



-6dB Bandwidth NVNT n20 2437MHz Ant4

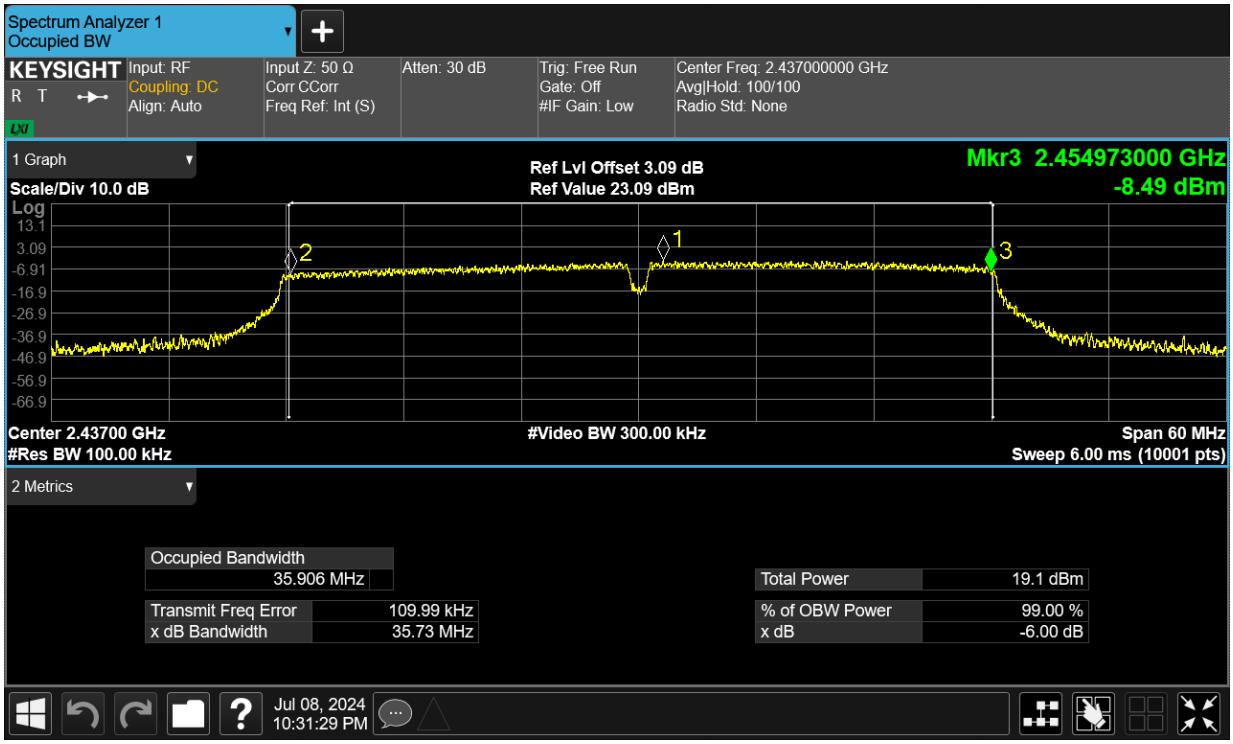


-6dB Bandwidth NVNT n20 2462MHz Ant4



-6dB Bandwidth NVNT n40 2422MHz Ant4

-6dB Bandwidth NVNT n40 2437MHz Ant4



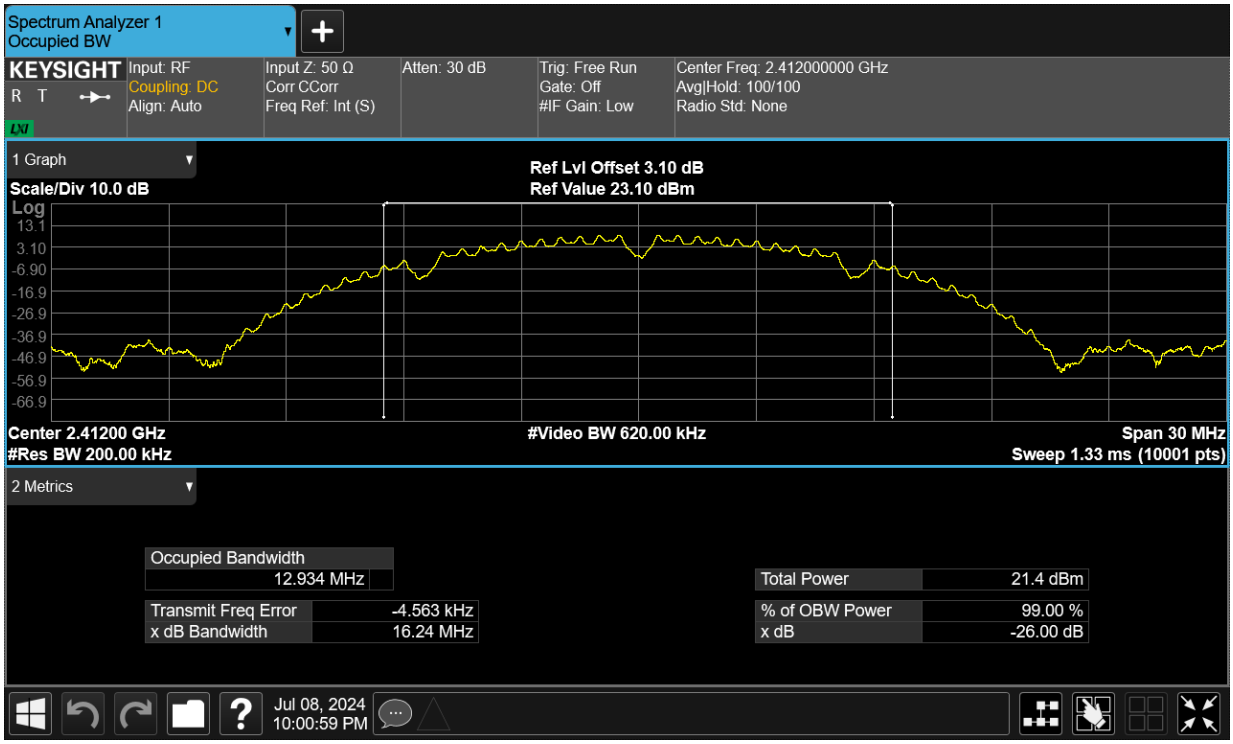
-6dB Bandwidth NVNT n40 2452MHz Ant4

Occupied Channel Bandwidth

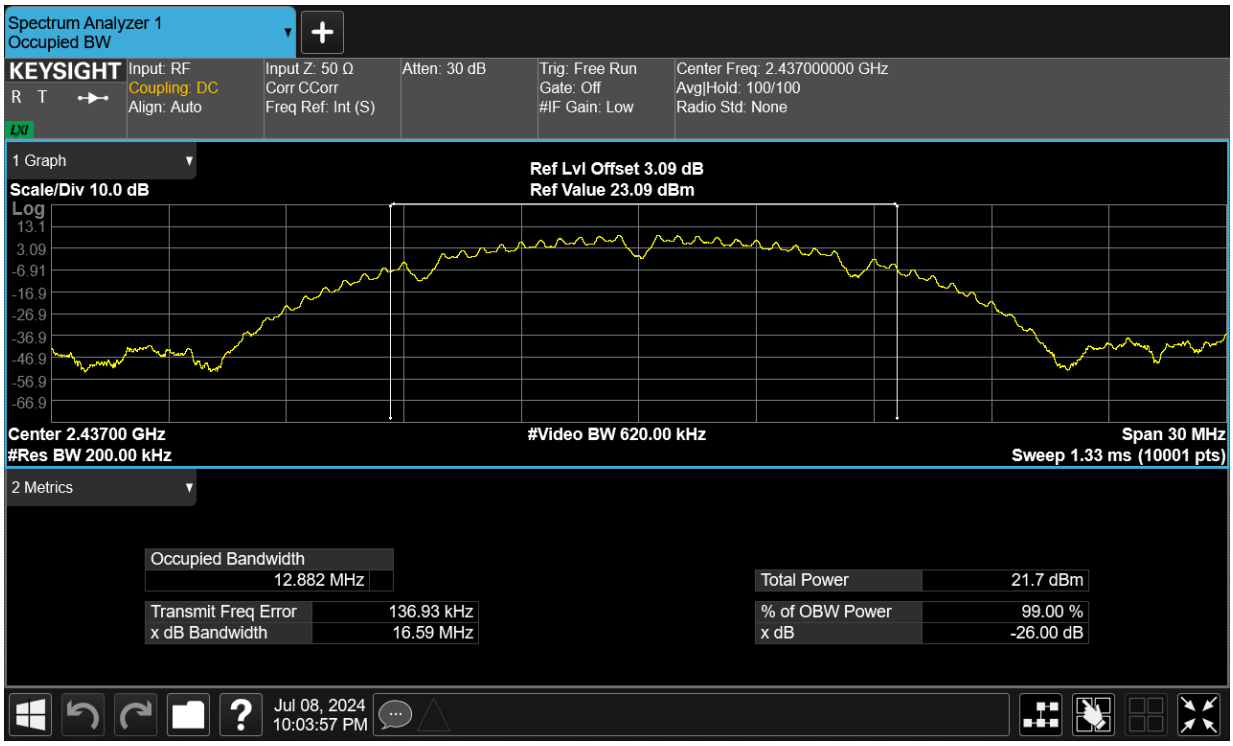
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant4	12.934
NVNT	b	2437	Ant4	12.882
NVNT	b	2462	Ant4	13.038
NVNT	g	2412	Ant4	16.476
NVNT	g	2437	Ant4	16.484
NVNT	g	2462	Ant4	16.494
NVNT	n20	2412	Ant4	17.606
NVNT	n20	2437	Ant4	17.638
NVNT	n20	2462	Ant4	17.629
NVNT	n40	2422	Ant4	36.132
NVNT	n40	2437	Ant4	35.999
NVNT	n40	2452	Ant4	35.728

Test Graphs

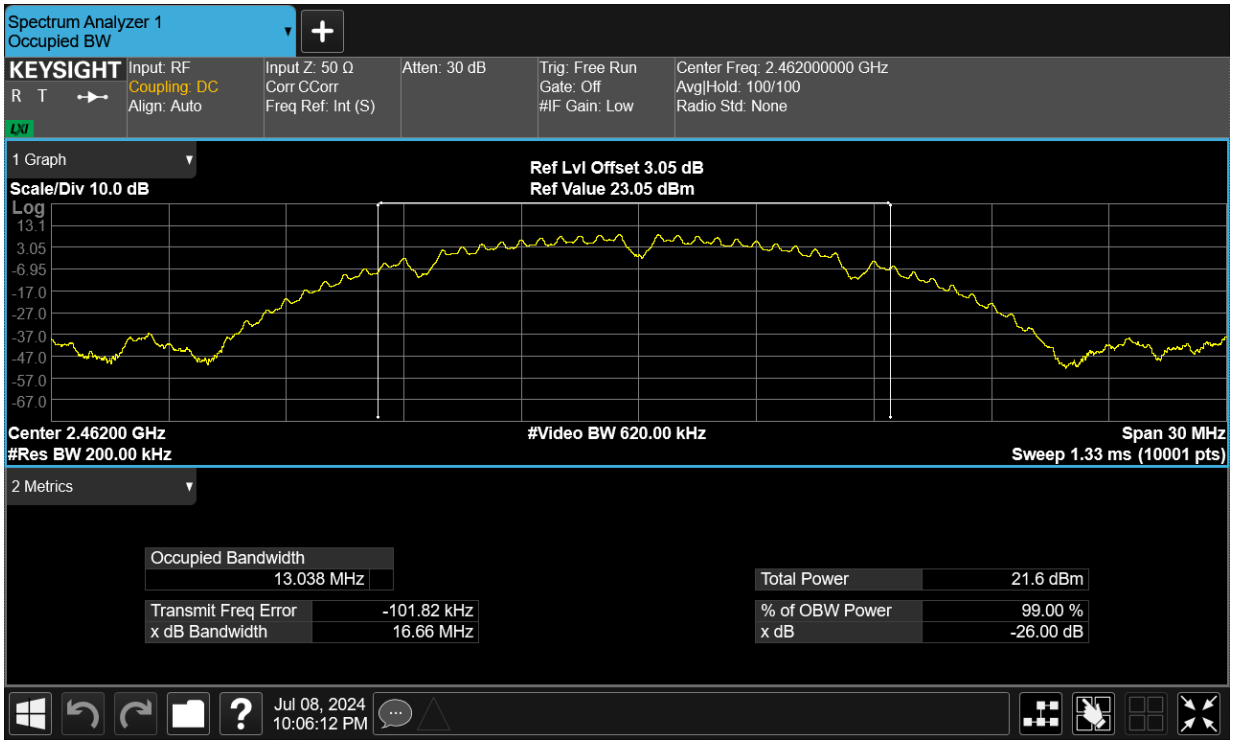
OBW NVNT b 2412MHz Ant4



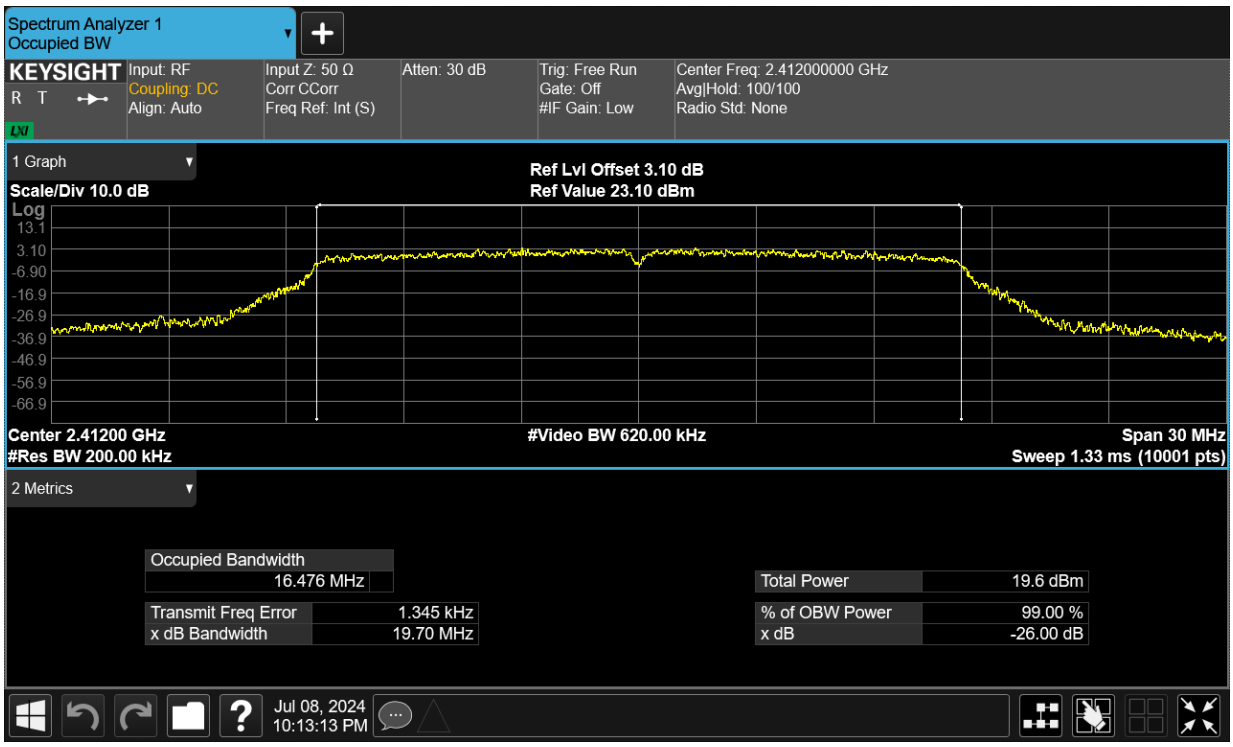
OBW NVNT b 2437MHz Ant4



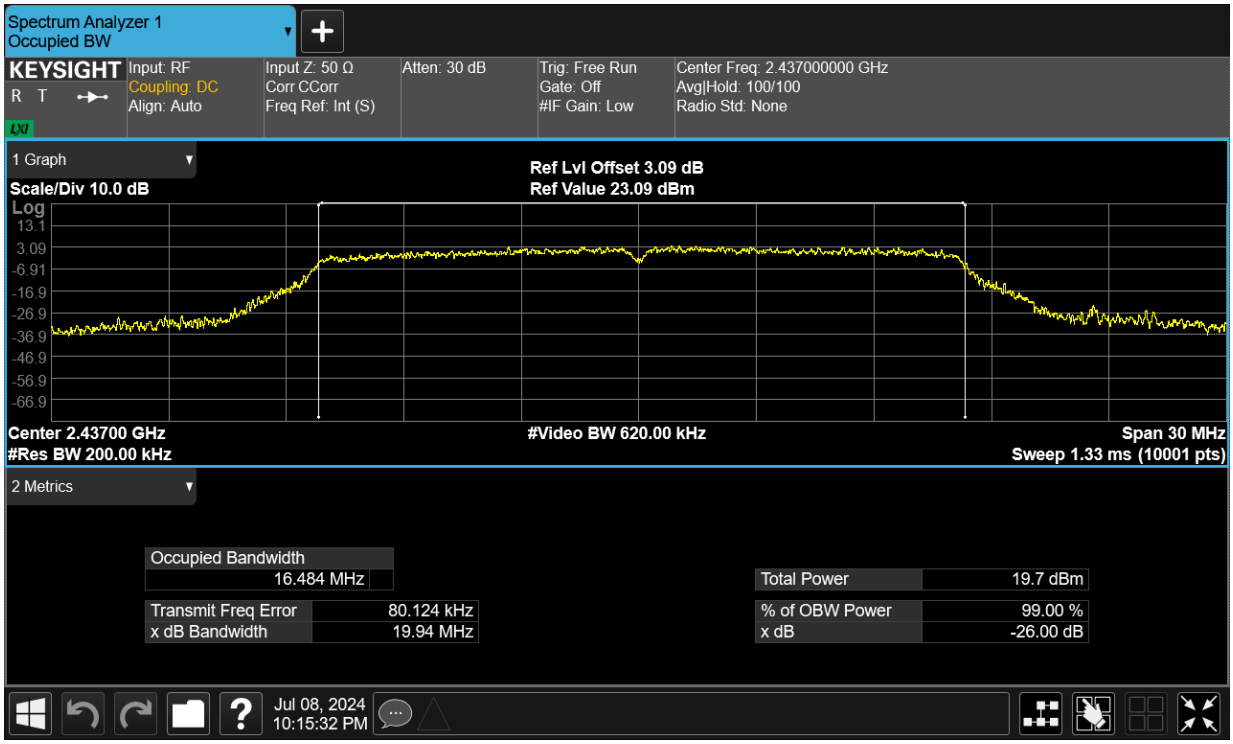
OBW NVNT b 2462MHz Ant4



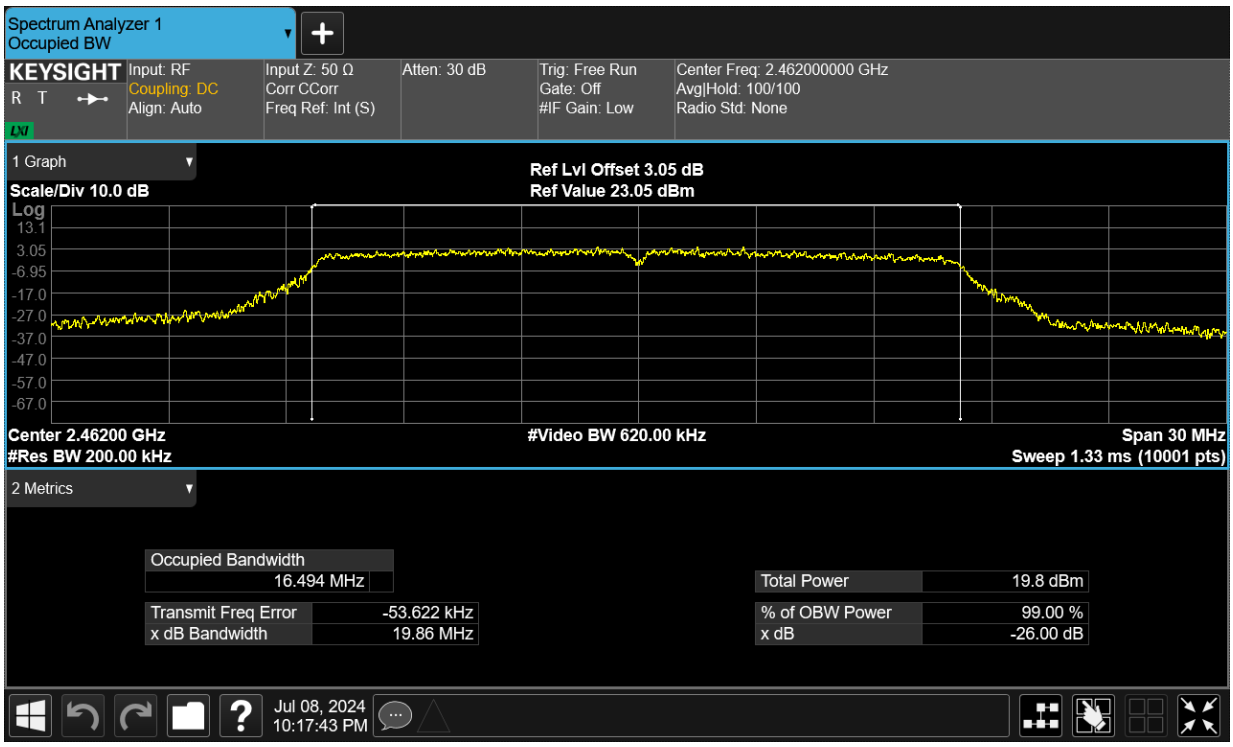
OBW NVNT g 2412MHz Ant4



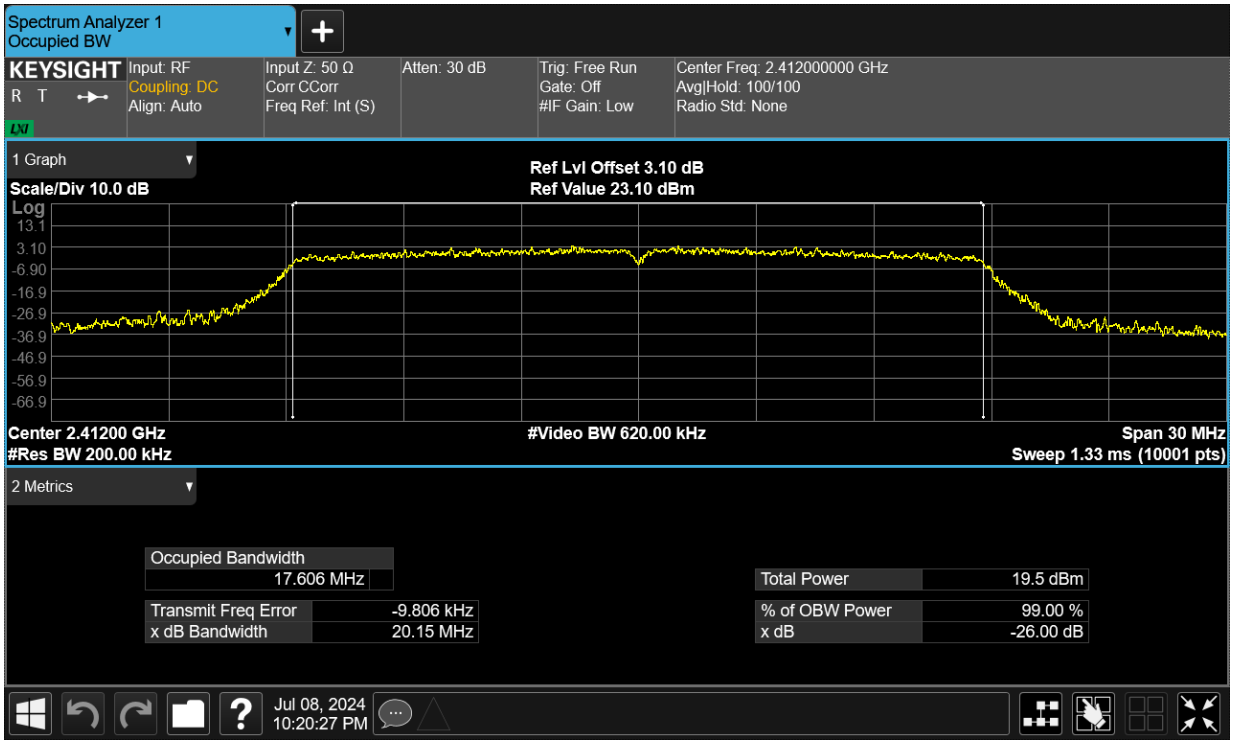
OBW NVNT g 2437MHz Ant4



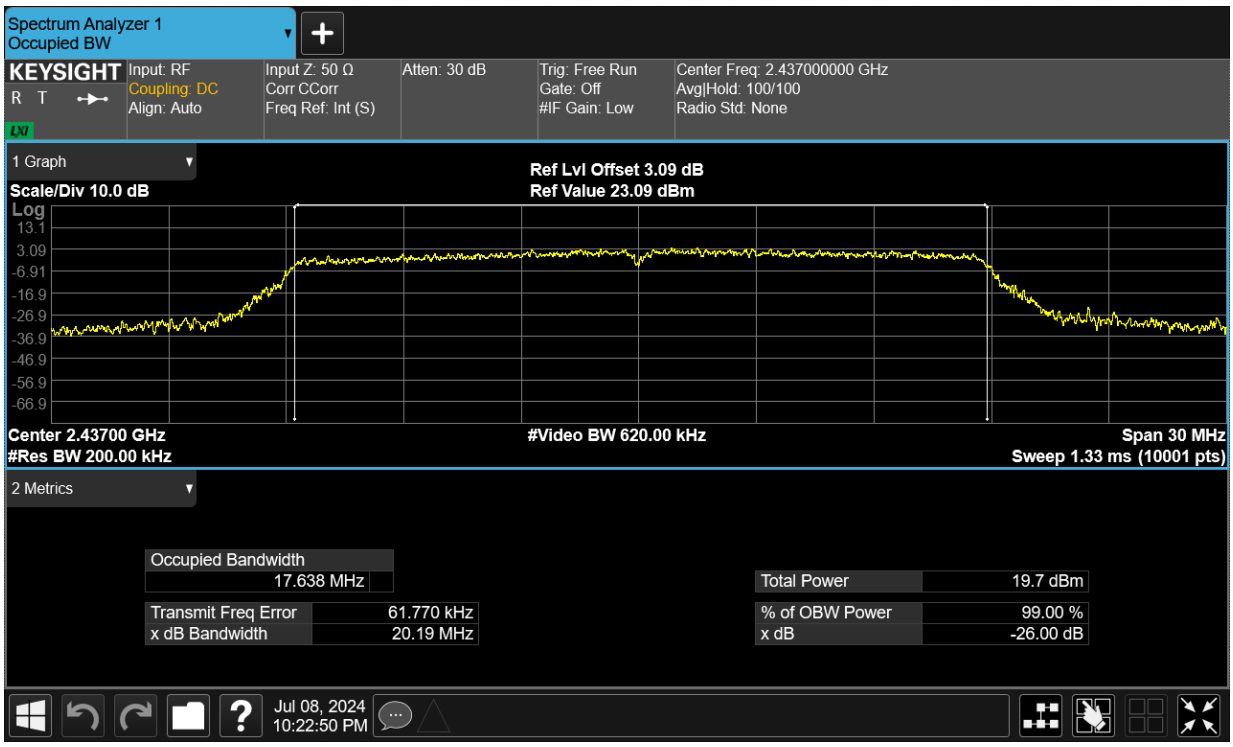
OBW NVNT g 2462MHz Ant4



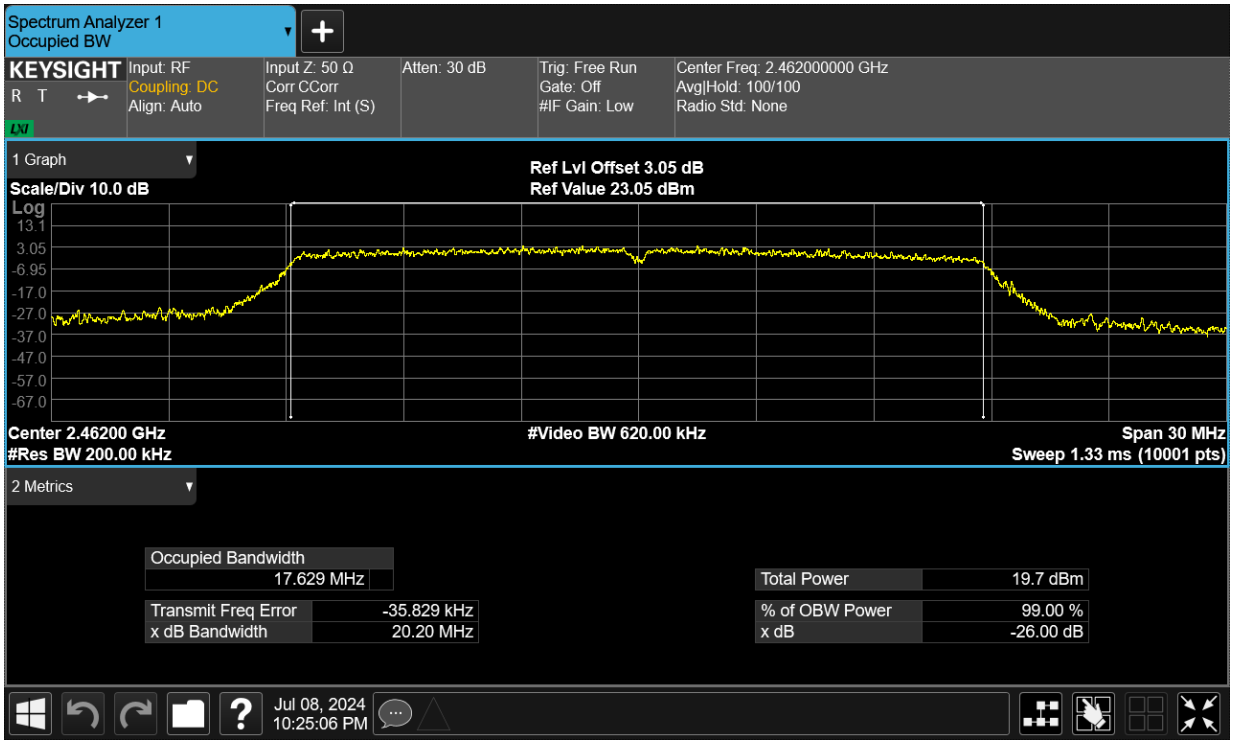
OBW NVNT n20 2412MHz Ant4



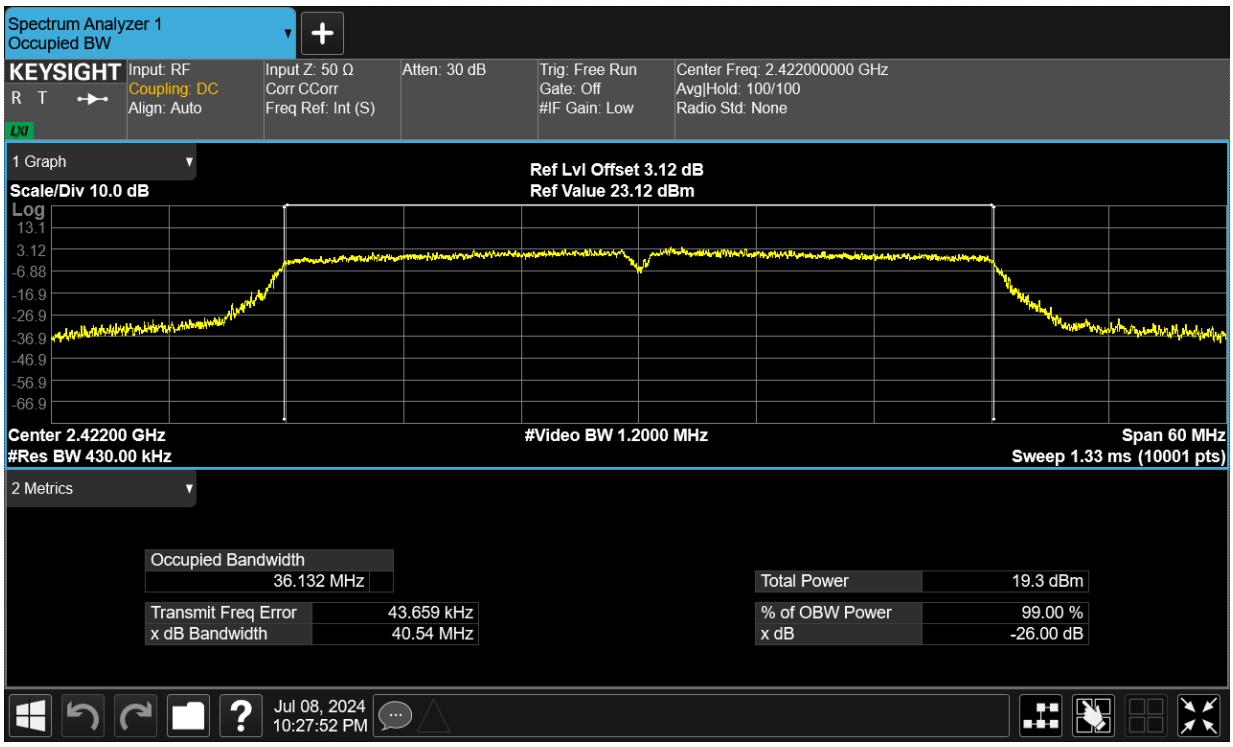
OBW NVNT n20 2437MHz Ant4



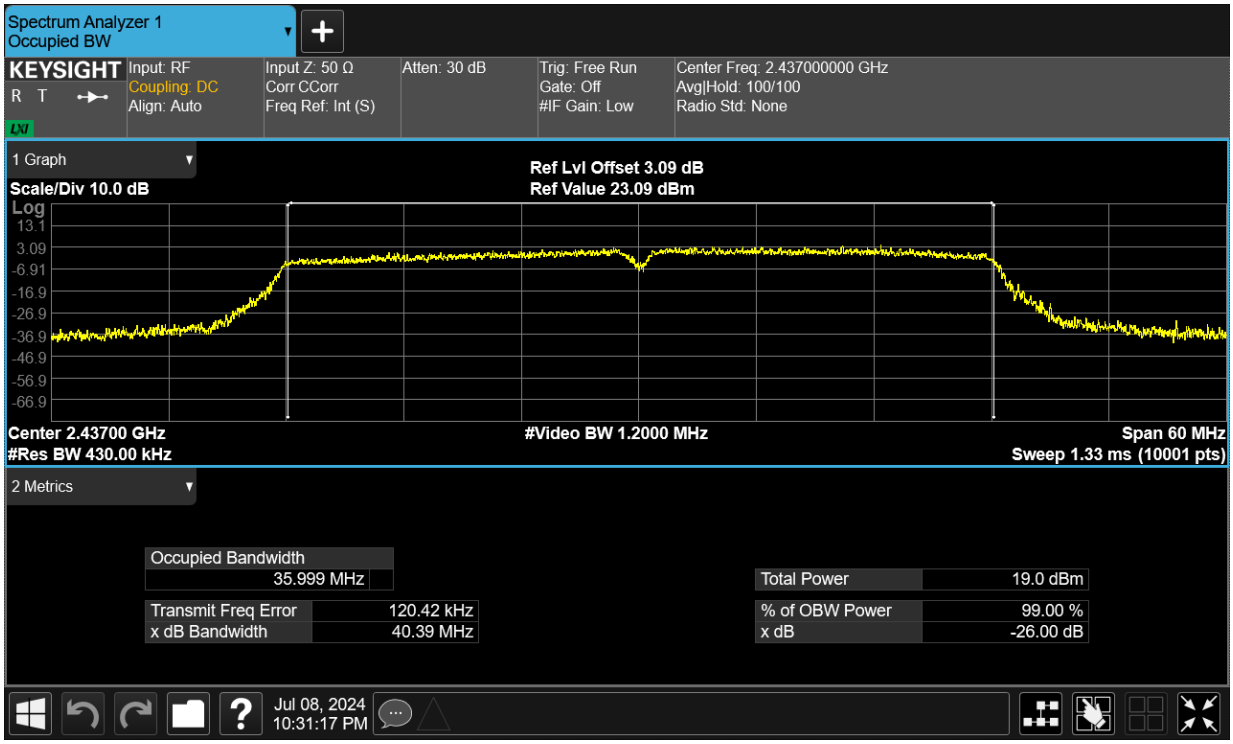
OBW NVNT n20 2462MHz Ant4



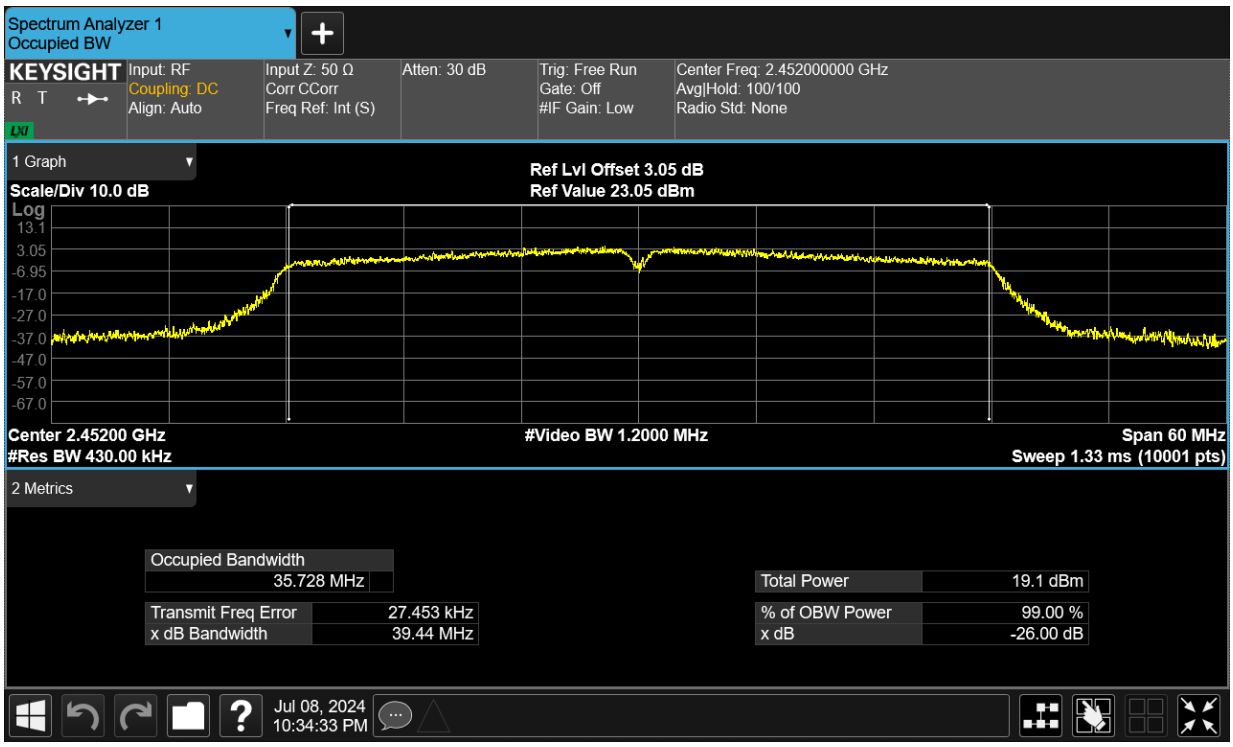
OBW NVNT n40 2422MHz Ant4



OBW NVNT n40 2437MHz Ant4



OBW NVNT n40 2452MHz Ant4

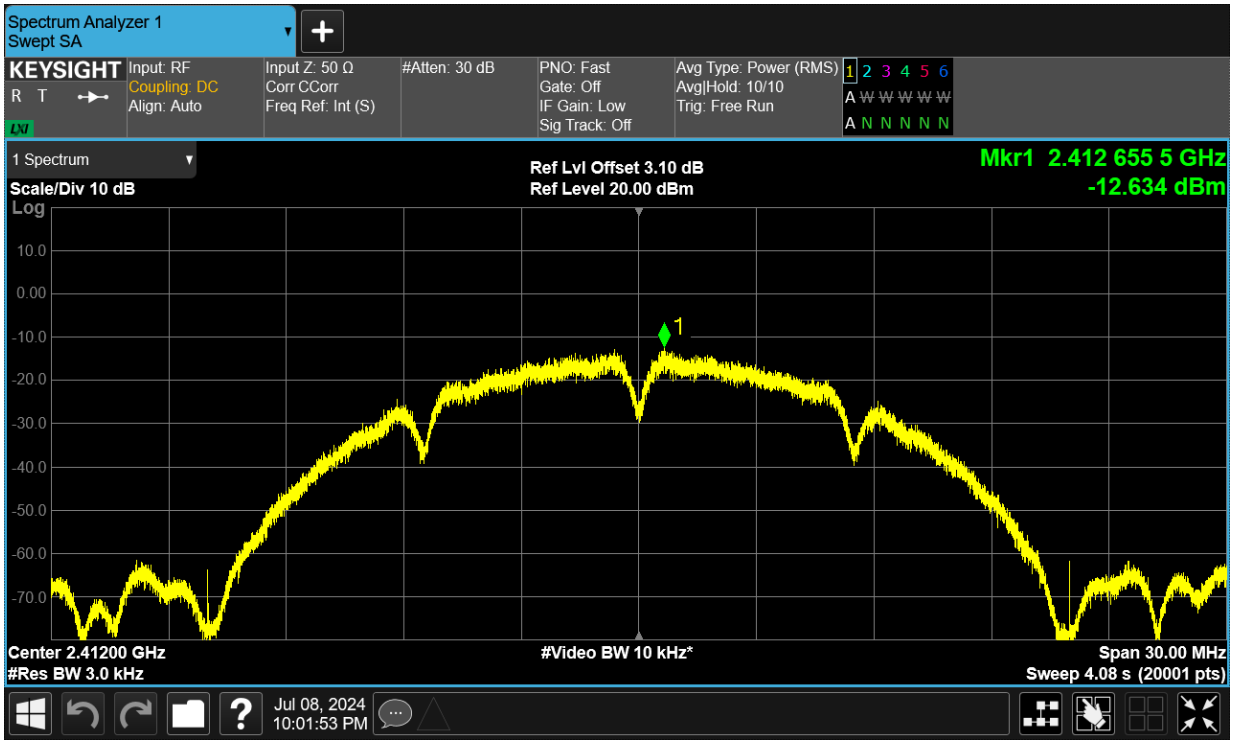


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant4	-12.634	8	Pass
NVNT	b	2437	Ant4	-11.945	8	Pass
NVNT	b	2462	Ant4	-12.908	8	Pass
NVNT	g	2412	Ant4	-17.154	8	Pass
NVNT	g	2437	Ant4	-17.261	8	Pass
NVNT	g	2462	Ant4	-16.632	8	Pass
NVNT	n20	2412	Ant4	-17.247	8	Pass
NVNT	n20	2437	Ant4	-17.604	8	Pass
NVNT	n20	2462	Ant4	-17.604	8	Pass
NVNT	n40	2422	Ant4	-21.358	8	Pass
NVNT	n40	2437	Ant4	-21.218	8	Pass
NVNT	n40	2452	Ant4	-20.461	8	Pass

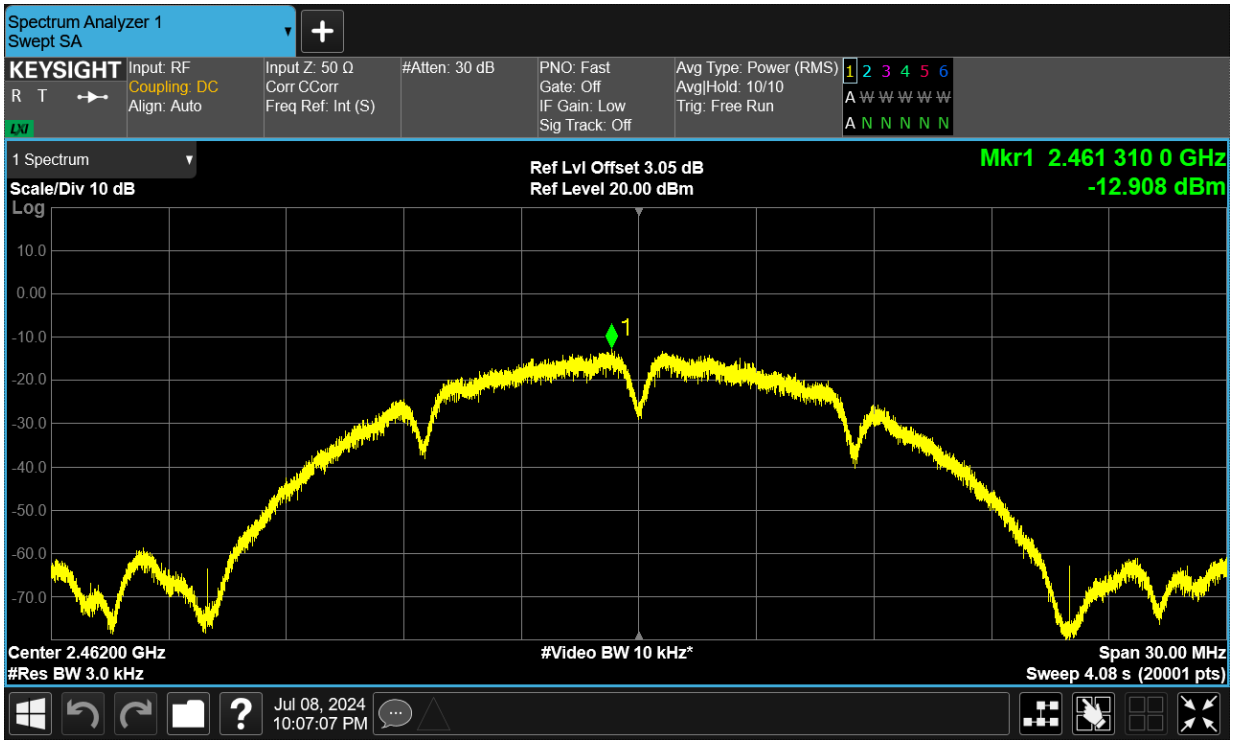
Test Graphs

PSD NVNT b 2412MHz Ant4

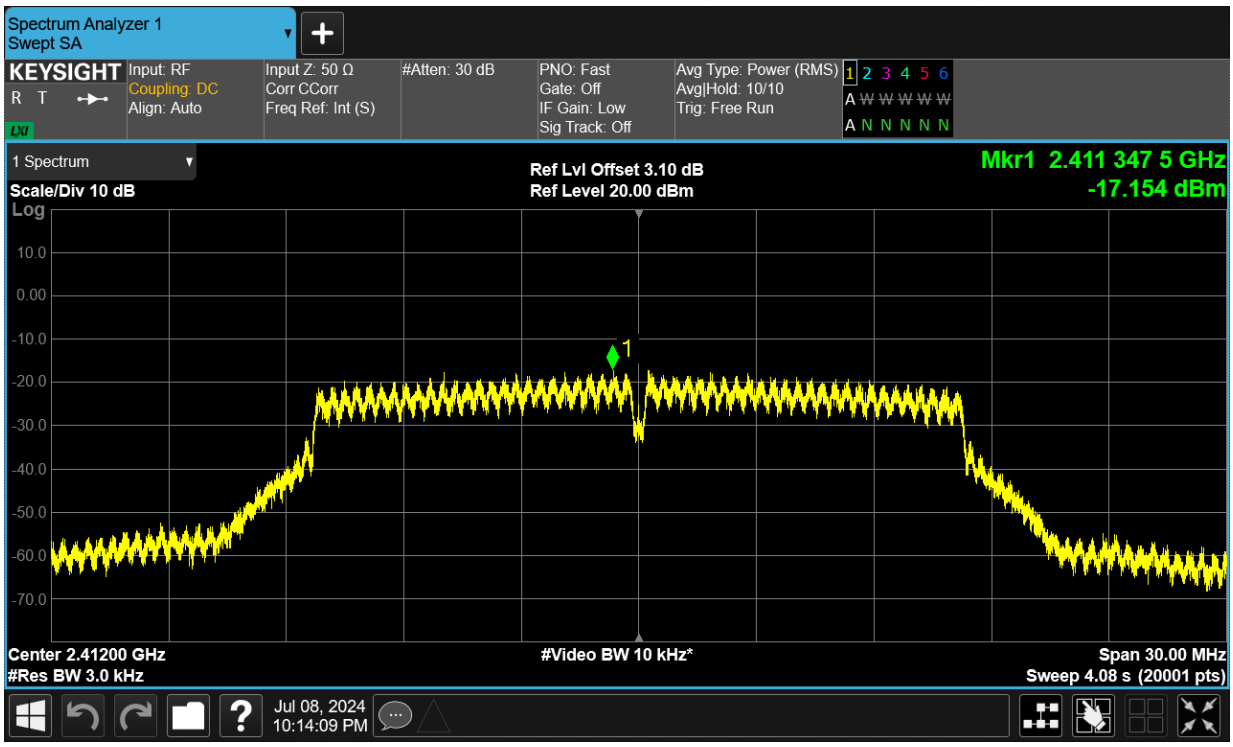


PSD NVNT b 2437MHz Ant4

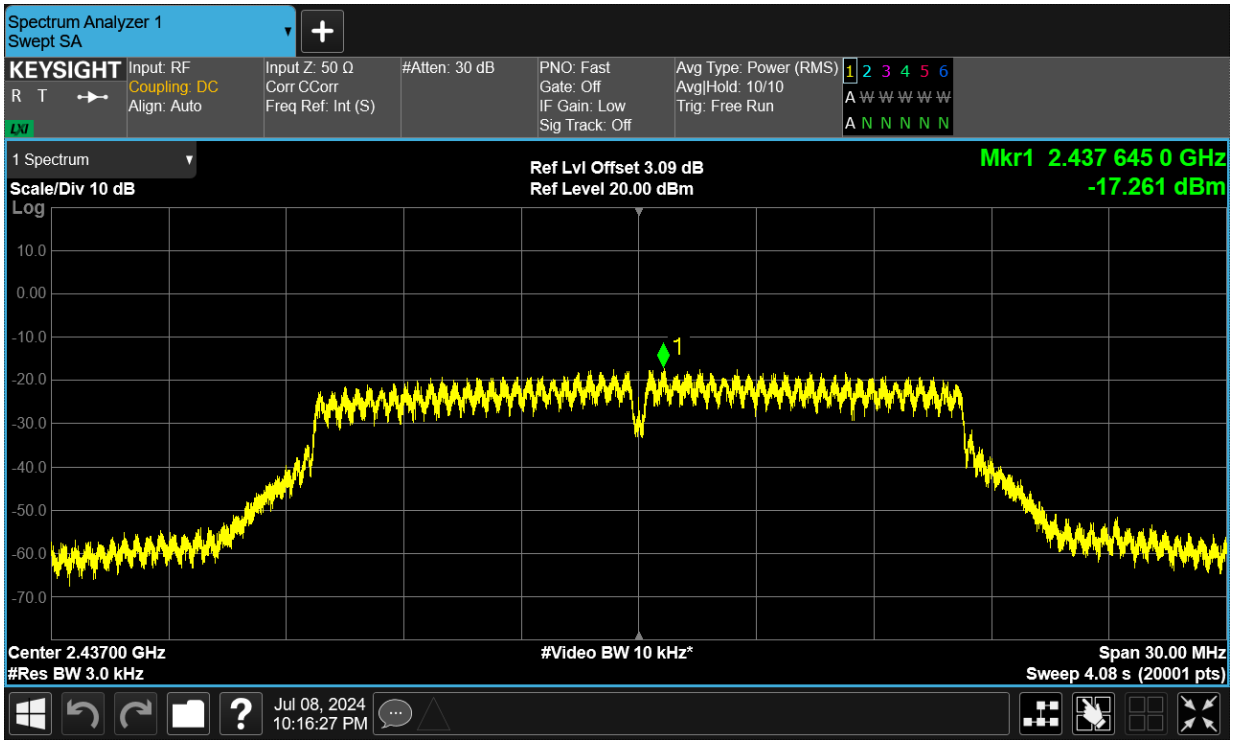
PSD NVNT b 2462MHz Ant4



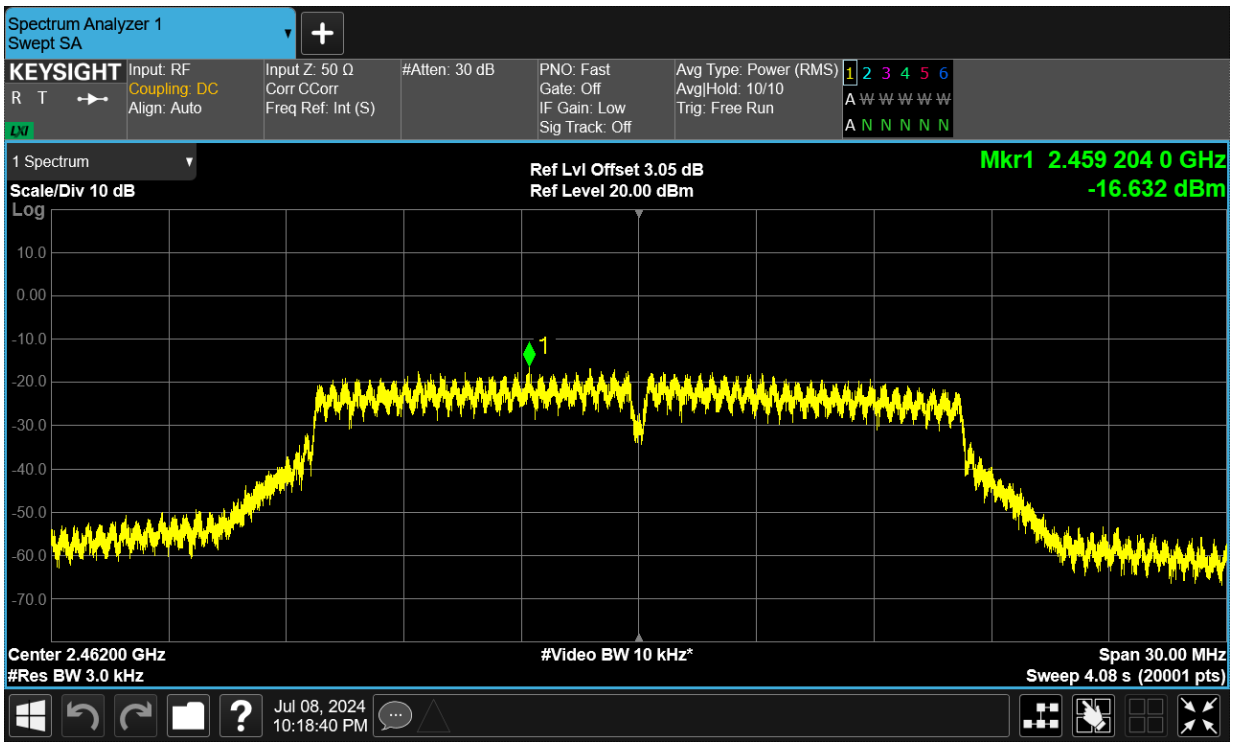
PSD NVNT g 2412MHz Ant4



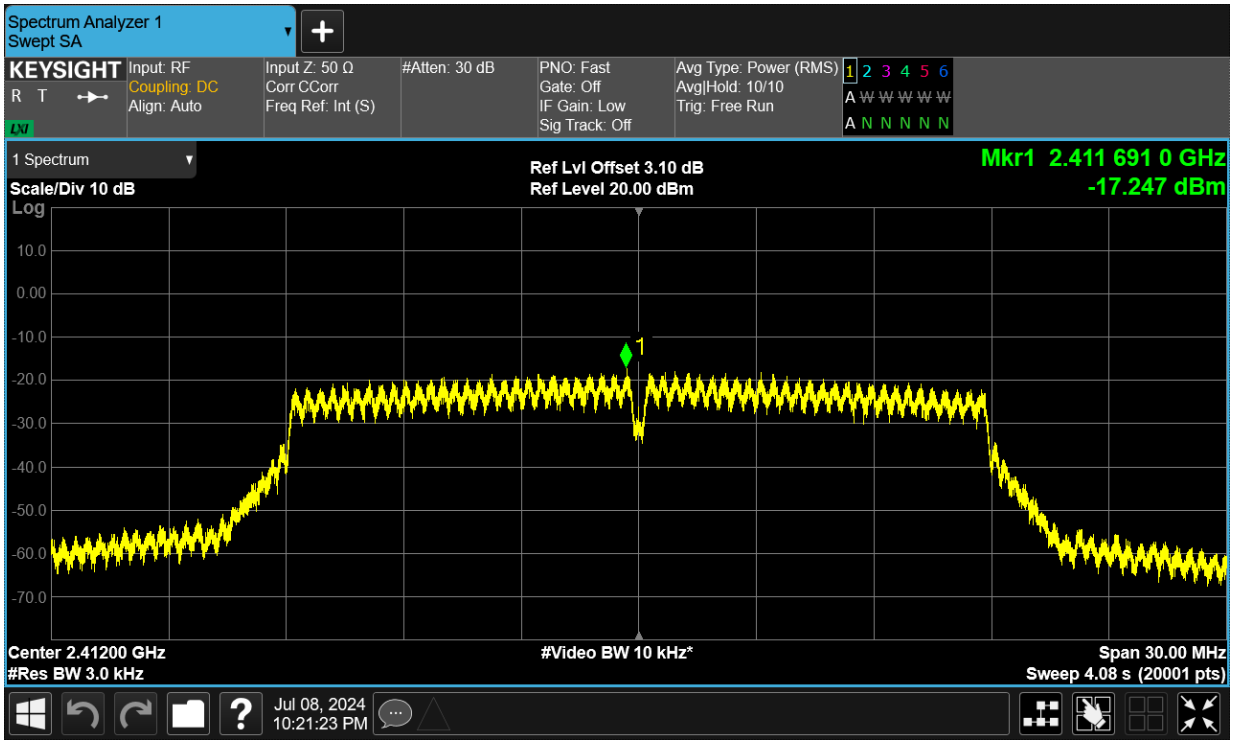
PSD NVNT g 2437MHz Ant4



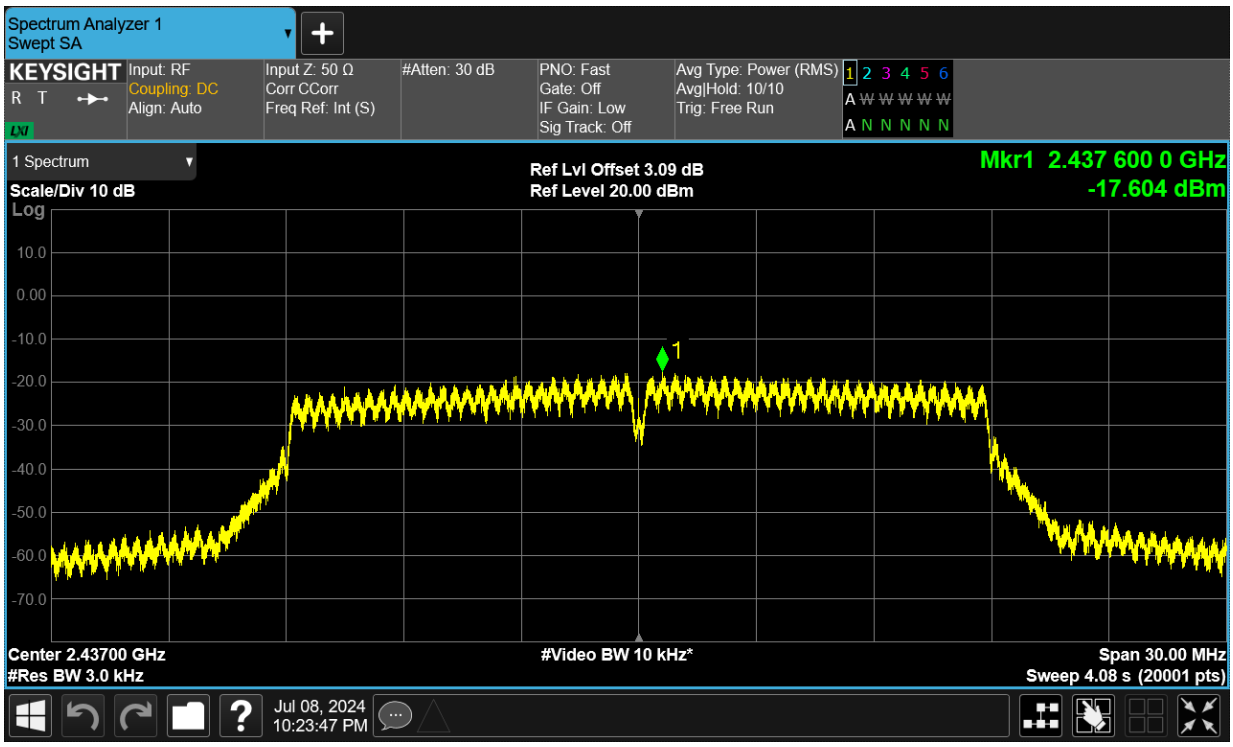
PSD NVNT g 2462MHz Ant4



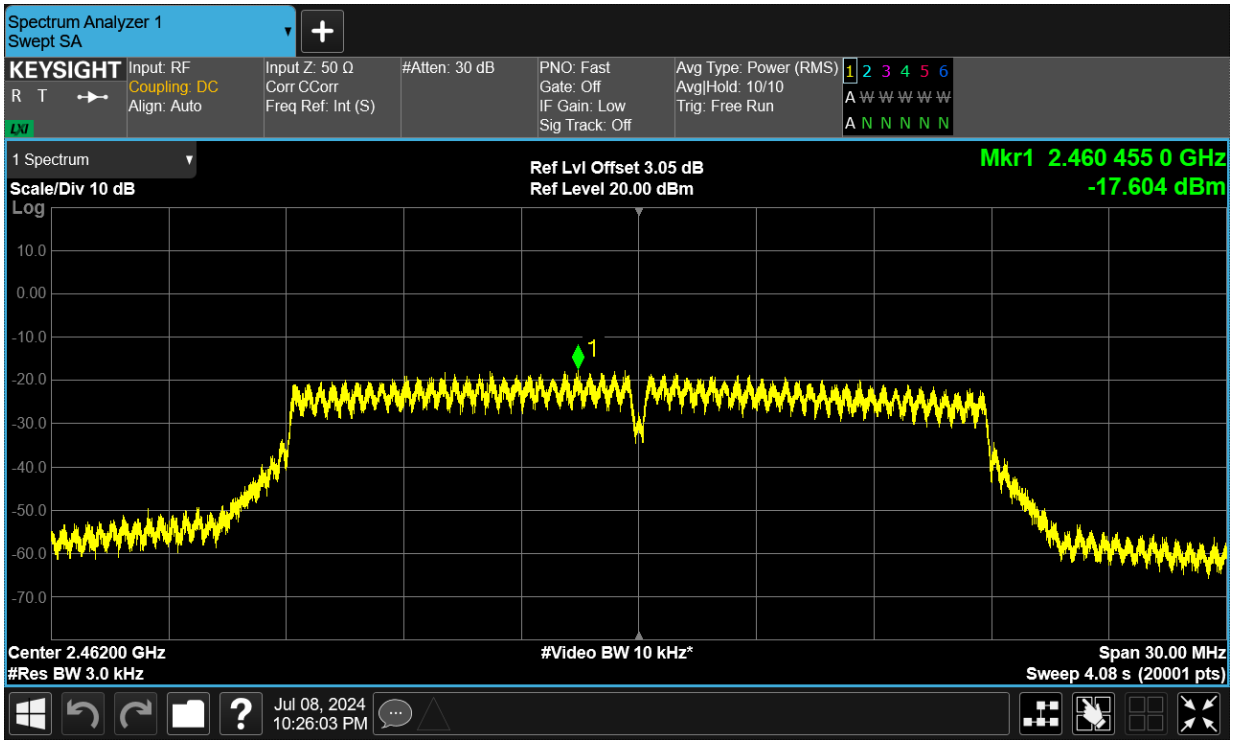
PSD NVNT n20 2412MHz Ant4



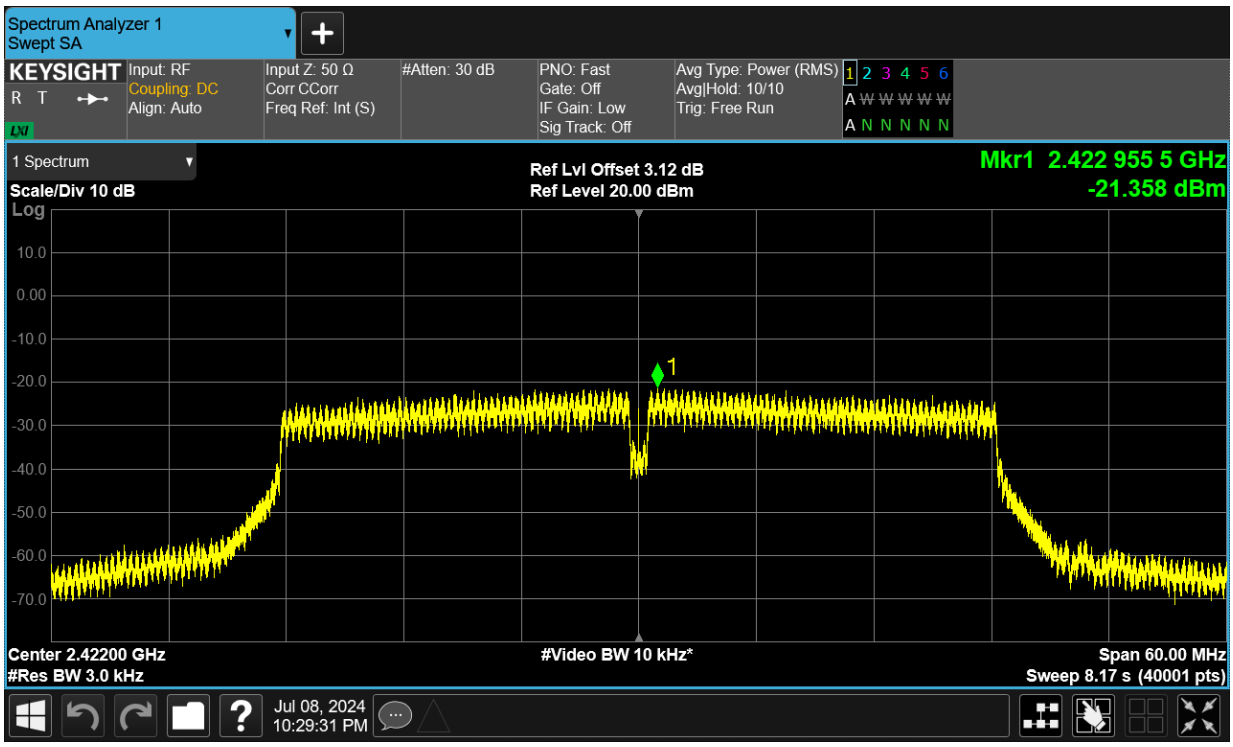
PSD NVNT n20 2437MHz Ant4



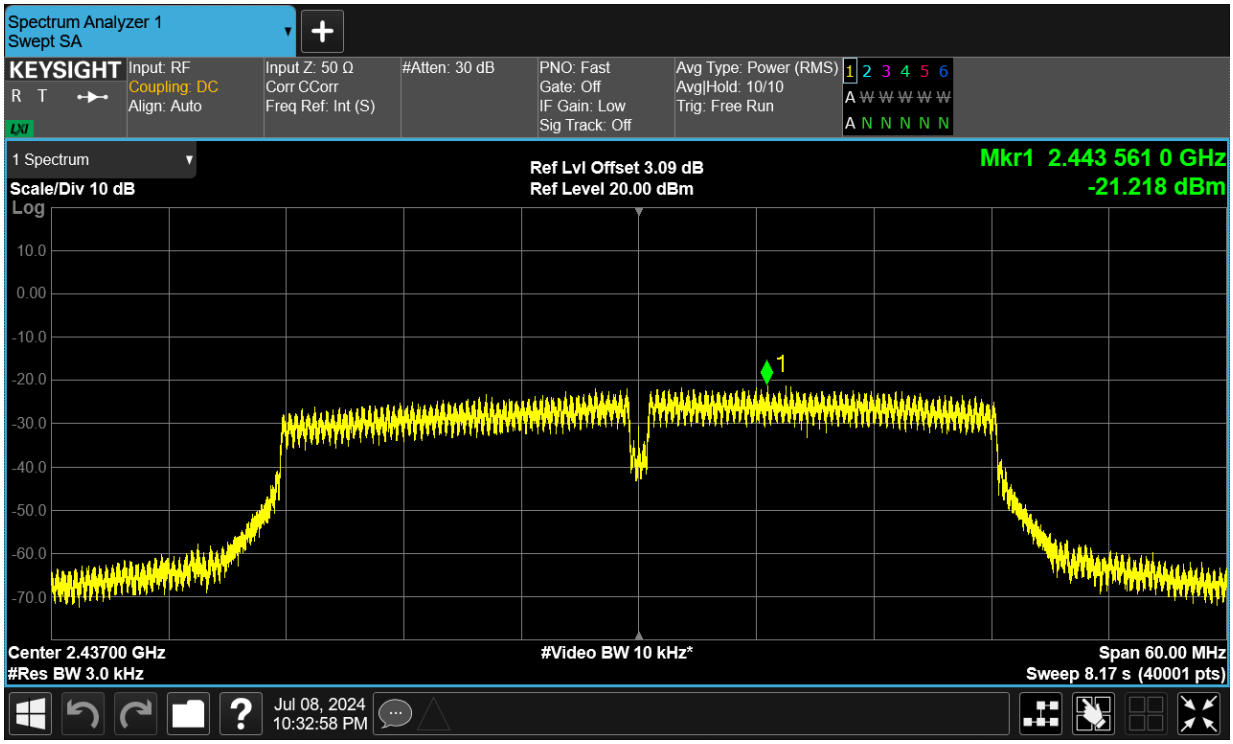
PSD NVNT n20 2462MHz Ant4



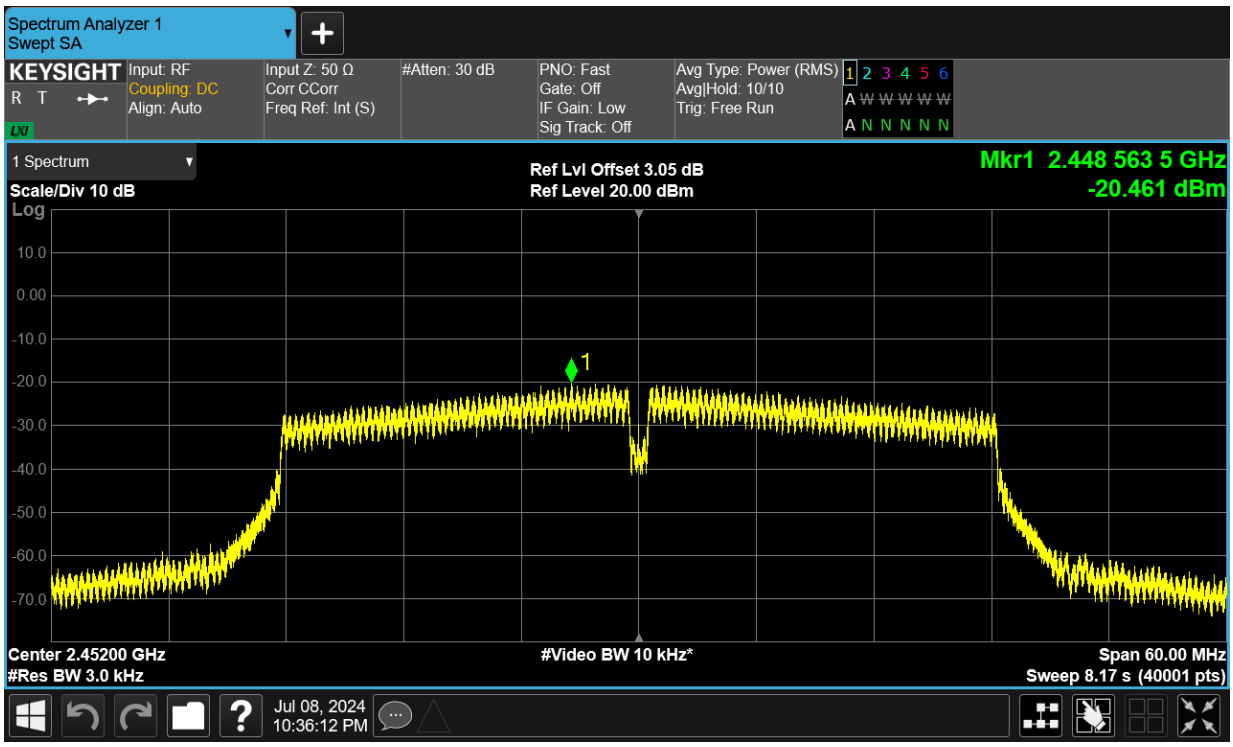
PSD NVNT n40 2422MHz Ant4



PSD NVNT n40 2437MHz Ant4



PSD NVNT n40 2452MHz Ant4

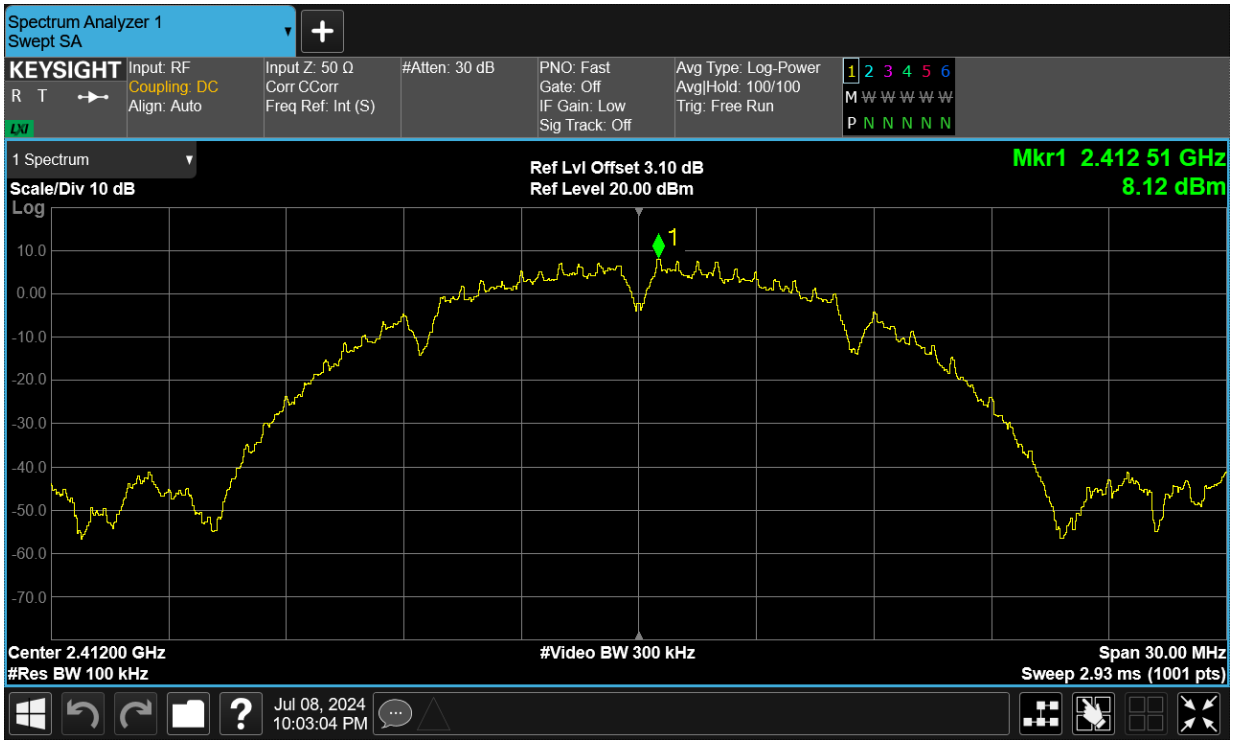


Band Edge

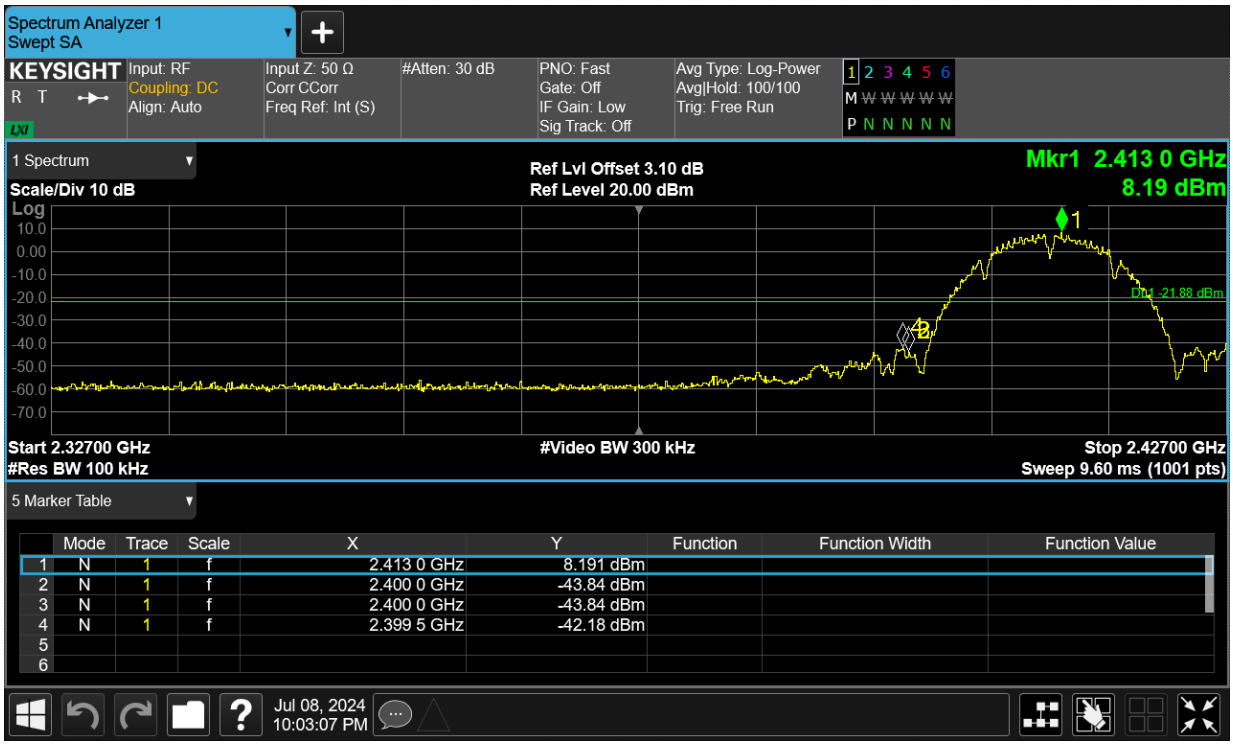
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant4	-50.3	-30	Pass
NVNT	b	2462	Ant4	-59.33	-30	Pass
NVNT	g	2412	Ant4	-31.98	-30	Pass
NVNT	g	2462	Ant4	-48.66	-30	Pass
NVNT	n20	2412	Ant4	-30.78	-30	Pass
NVNT	n20	2462	Ant4	-48.35	-30	Pass
NVNT	n40	2422	Ant4	-32.55	-30	Pass
NVNT	n40	2452	Ant4	-44.46	-30	Pass

Test Graphs

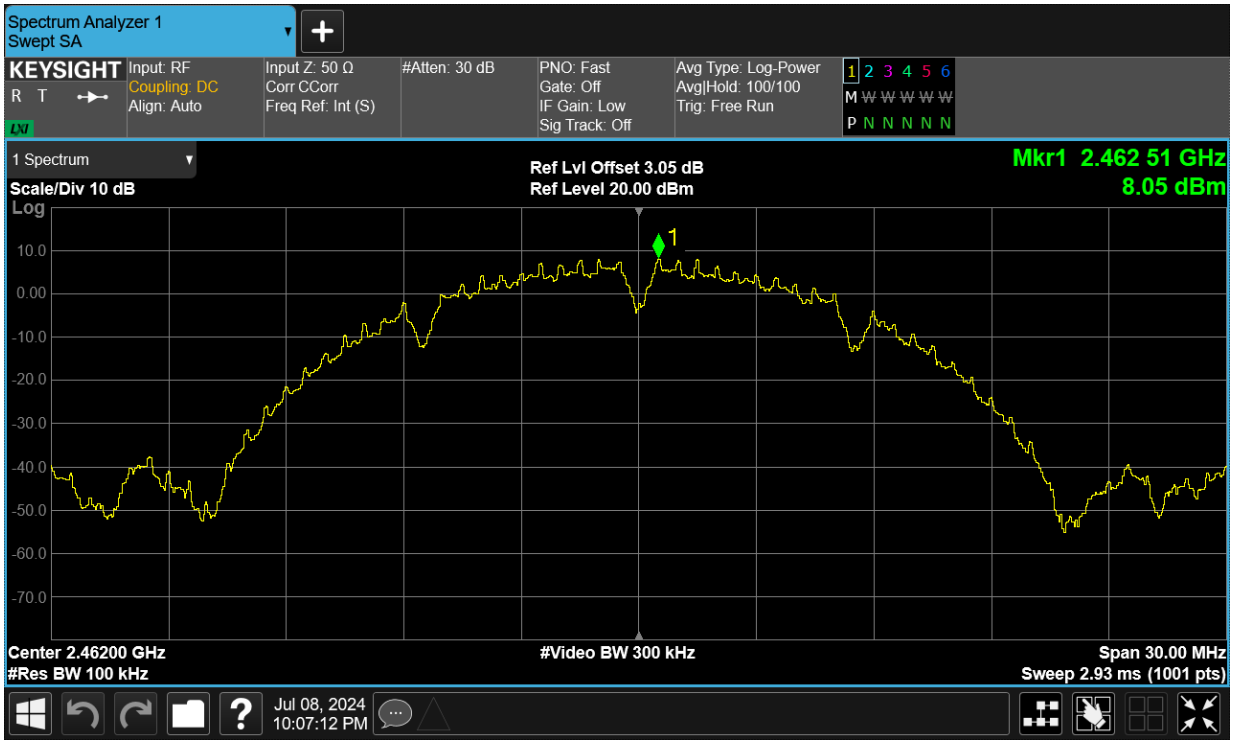
Band Edge NVNT b 2412MHz Ant4 Ref



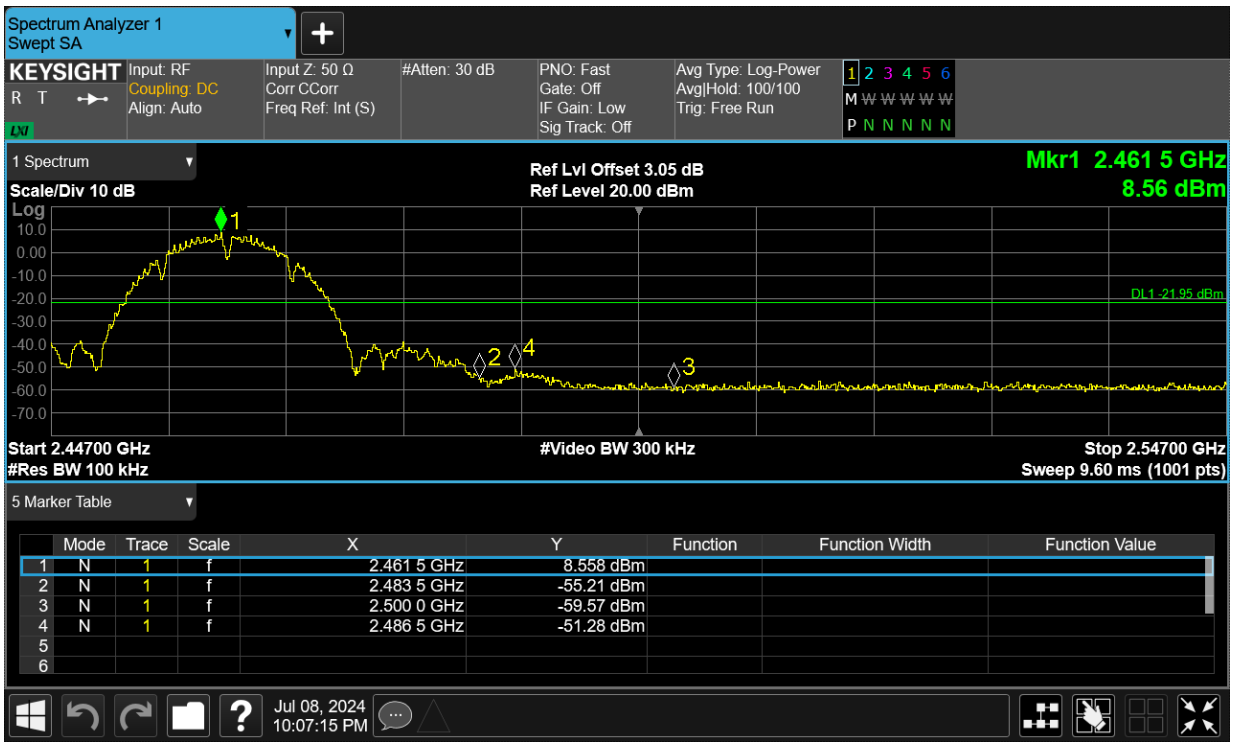
Band Edge NVNT b 2412MHz Ant4 Emission



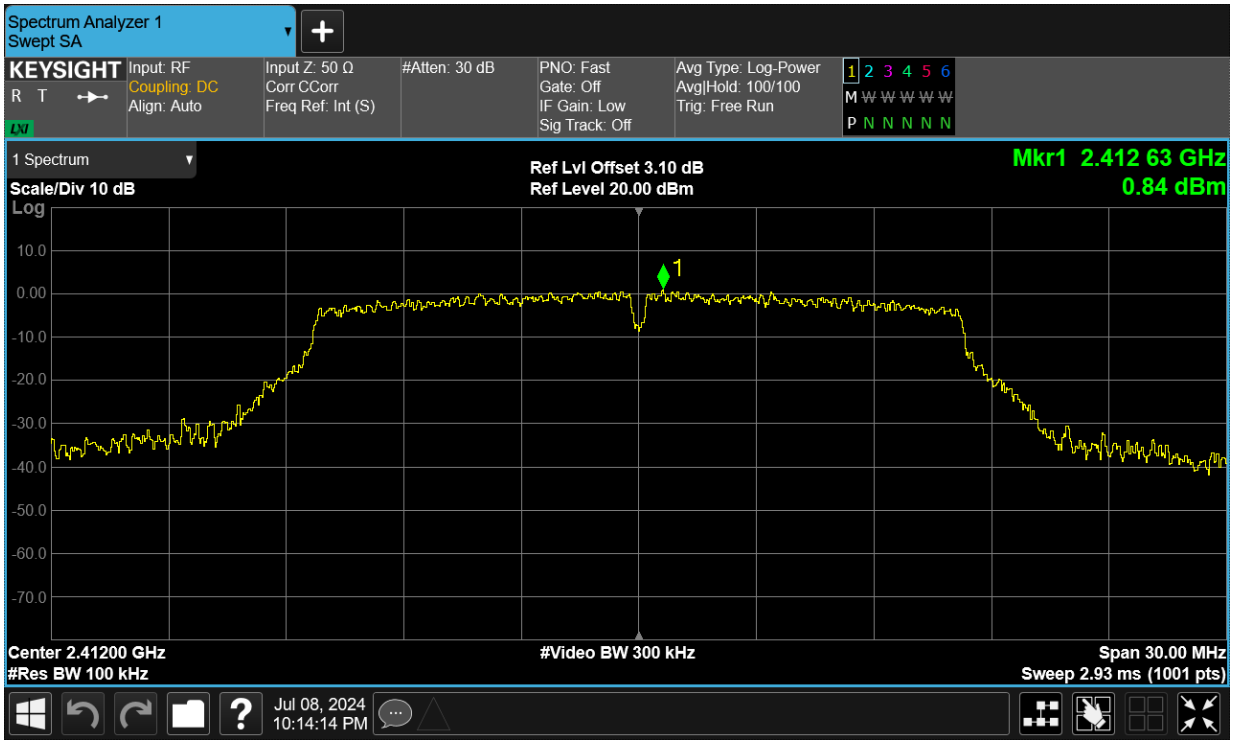
Band Edge NVNT b 2462MHz Ant4 Ref



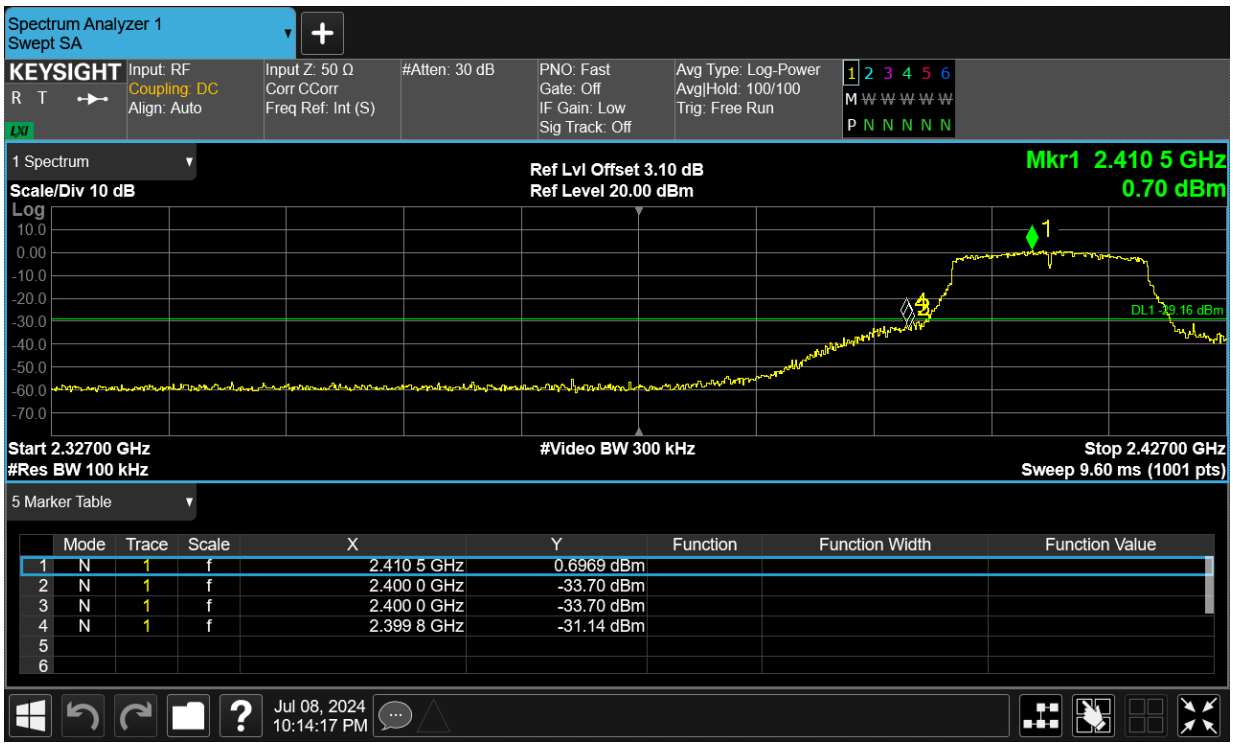
Band Edge NVNT b 2462MHz Ant4 Emission



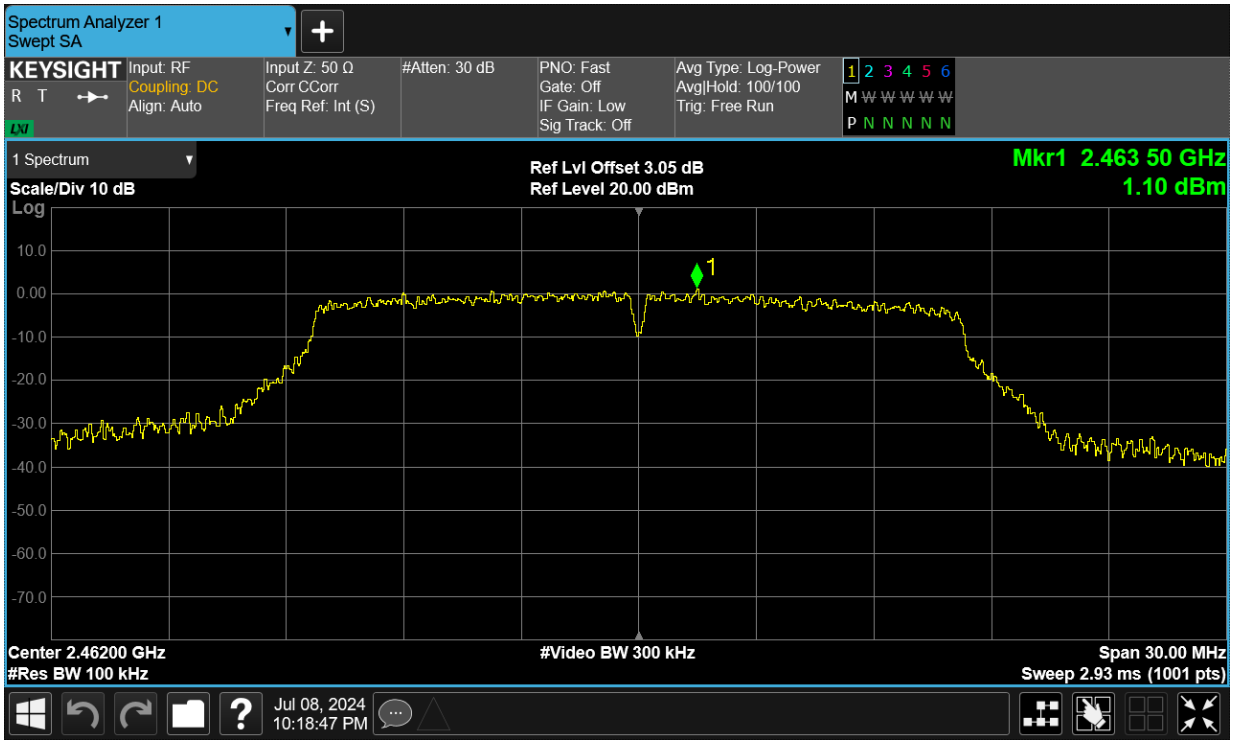
Band Edge NVNT g 2412MHz Ant4 Ref



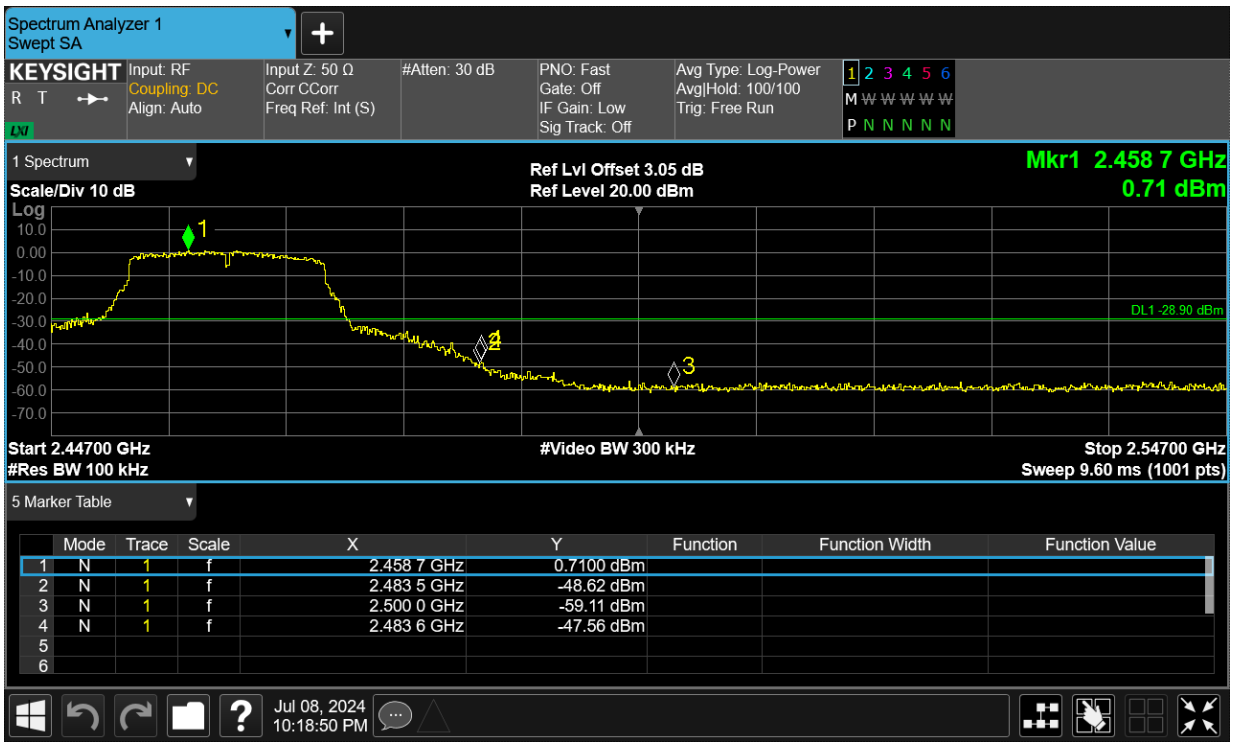
Band Edge NVNT g 2412MHz Ant4 Emission



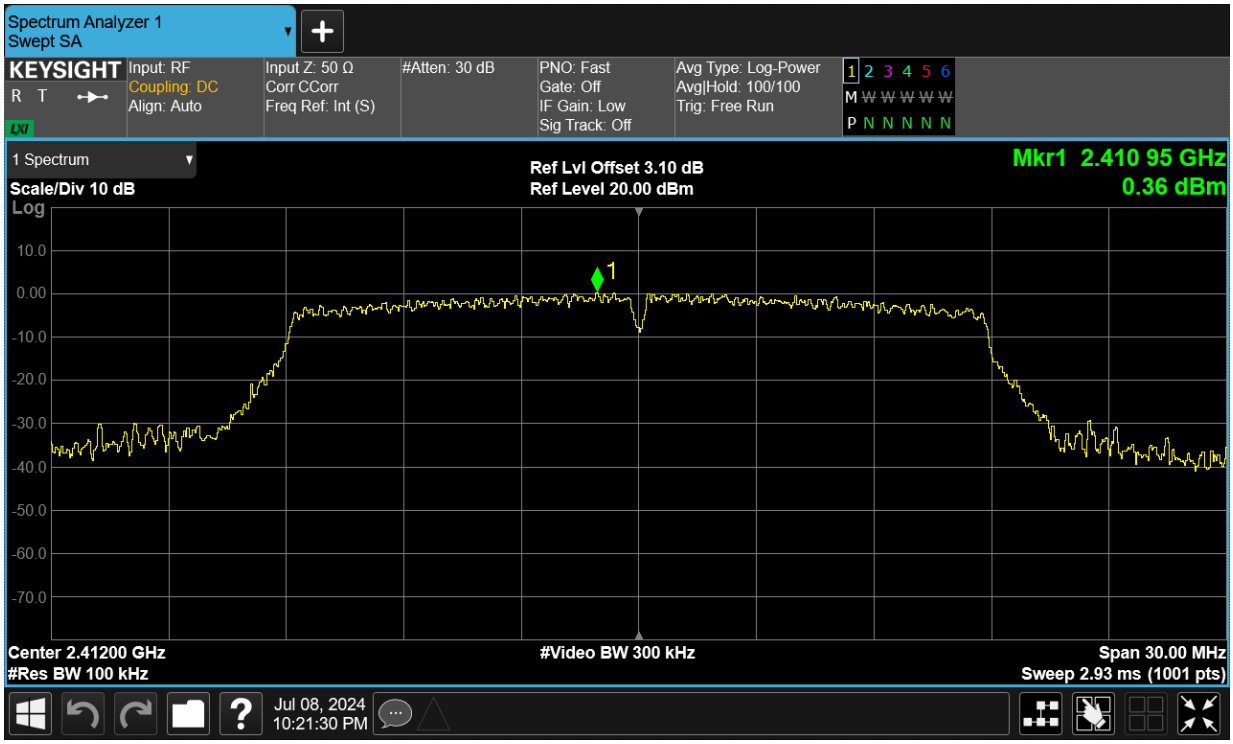
Band Edge NVNT g 2462MHz Ant4 Ref



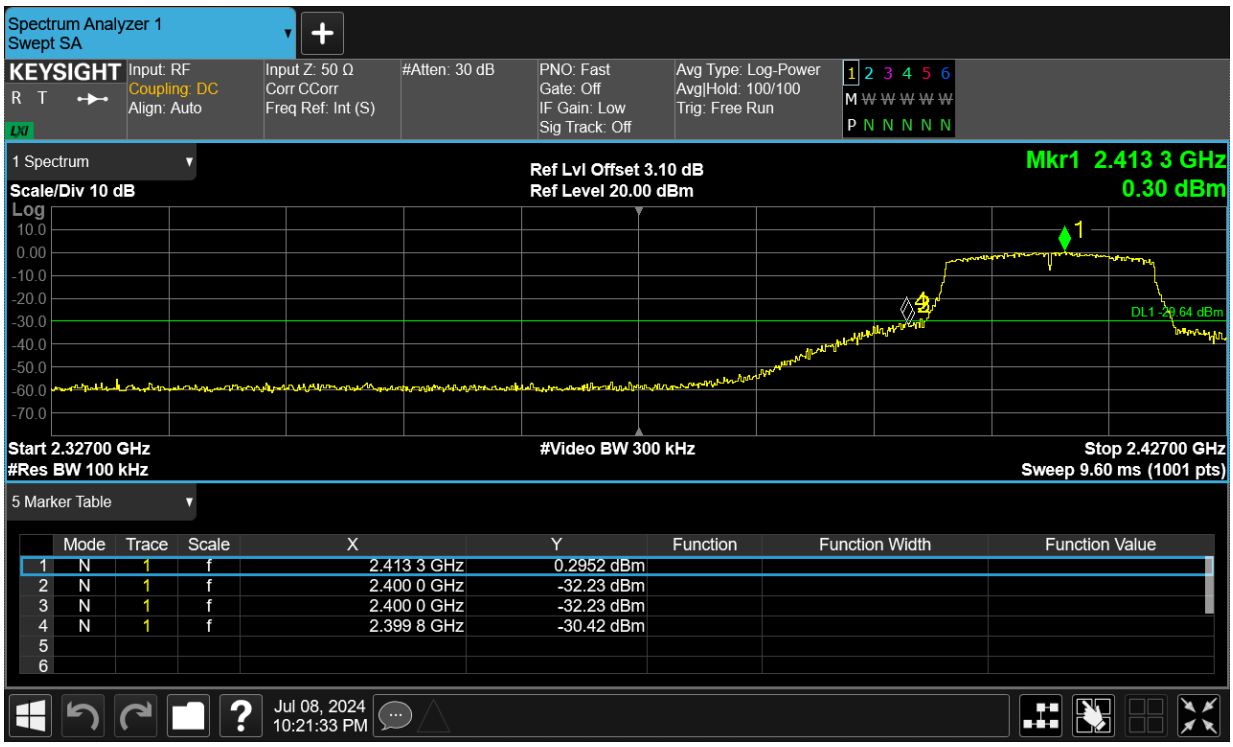
Band Edge NVNT g 2462MHz Ant4 Emission



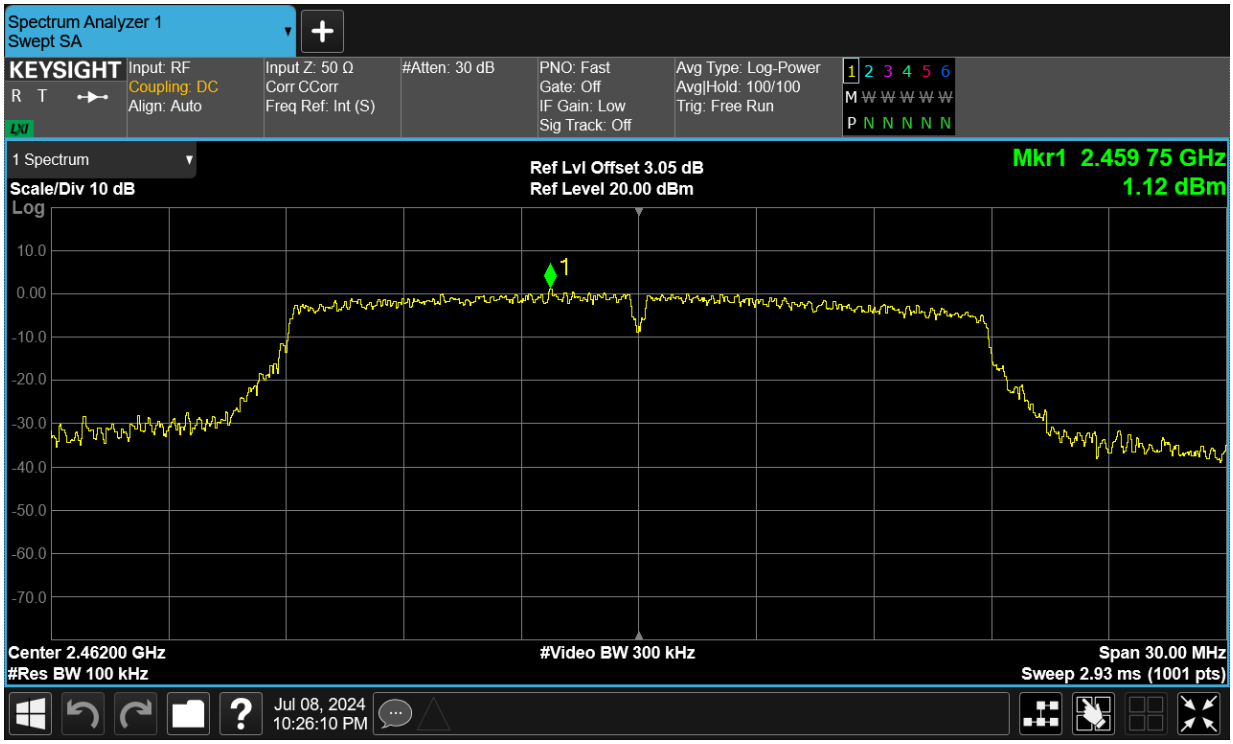
Band Edge NVNT n20 2412MHz Ant4 Ref



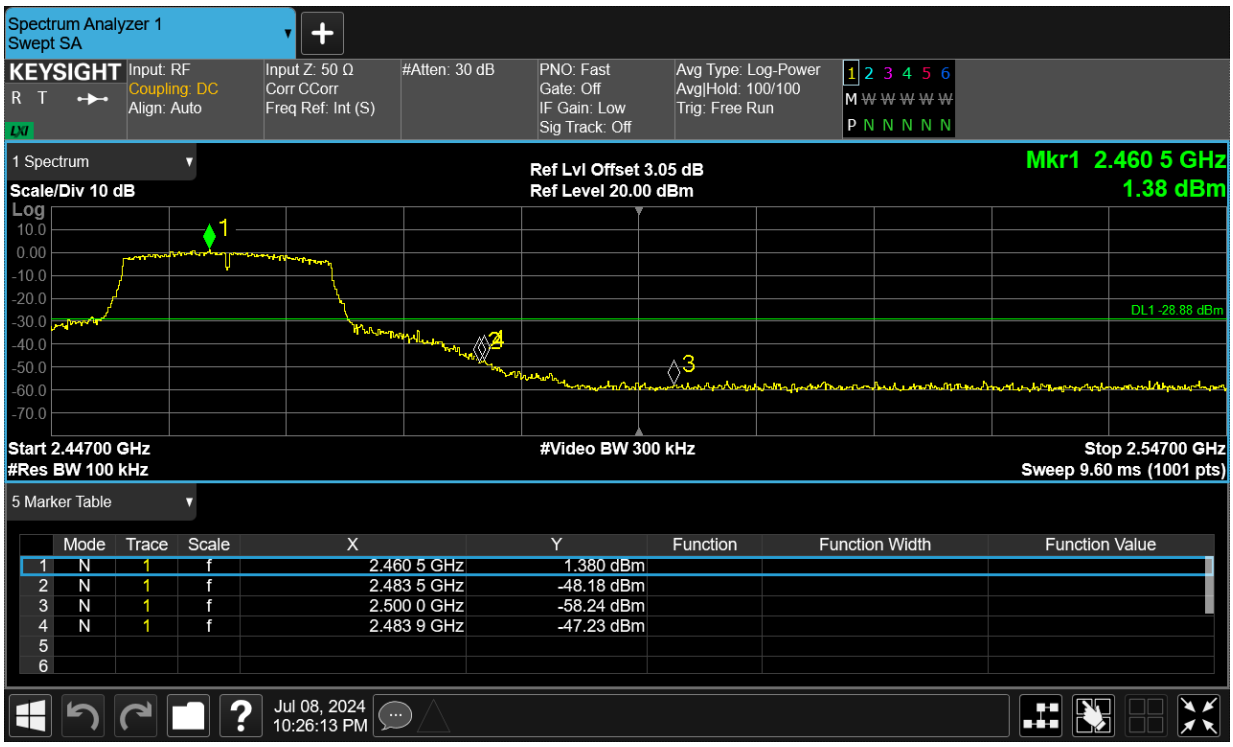
Band Edge NVNT n20 2412MHz Ant4 Emission



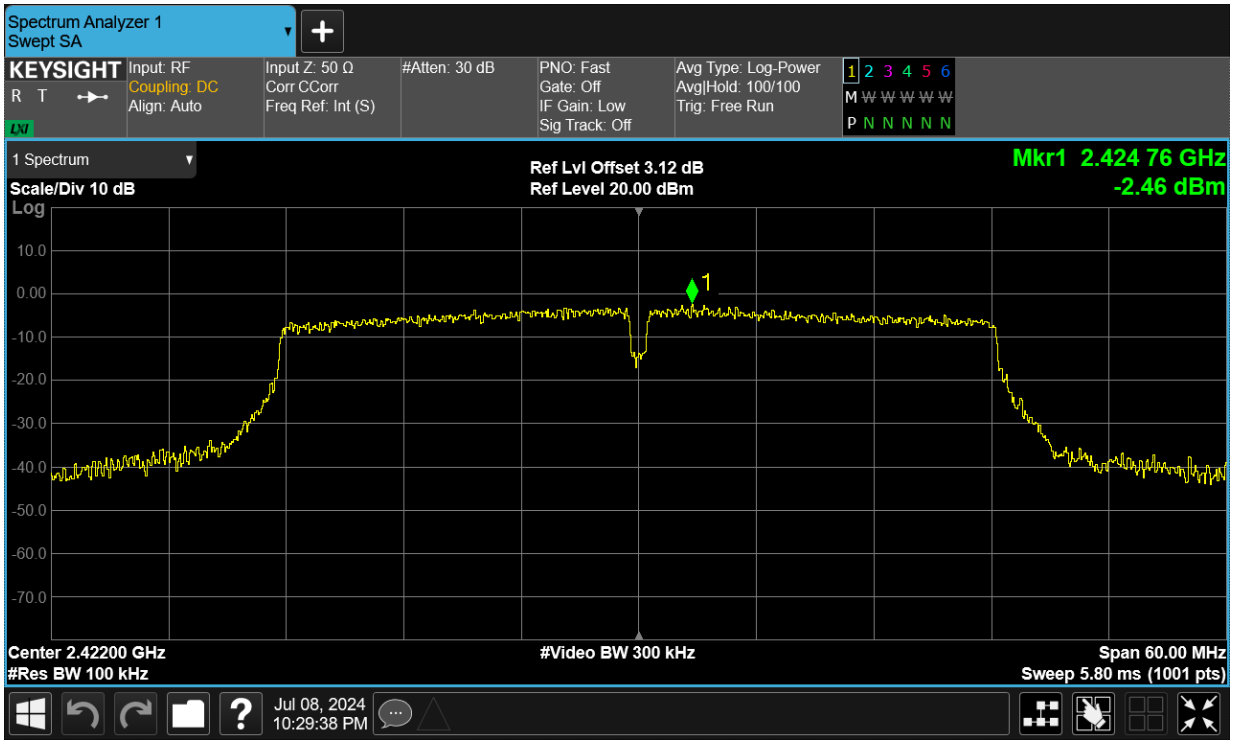
Band Edge NVNT n20 2462MHz Ant4 Ref



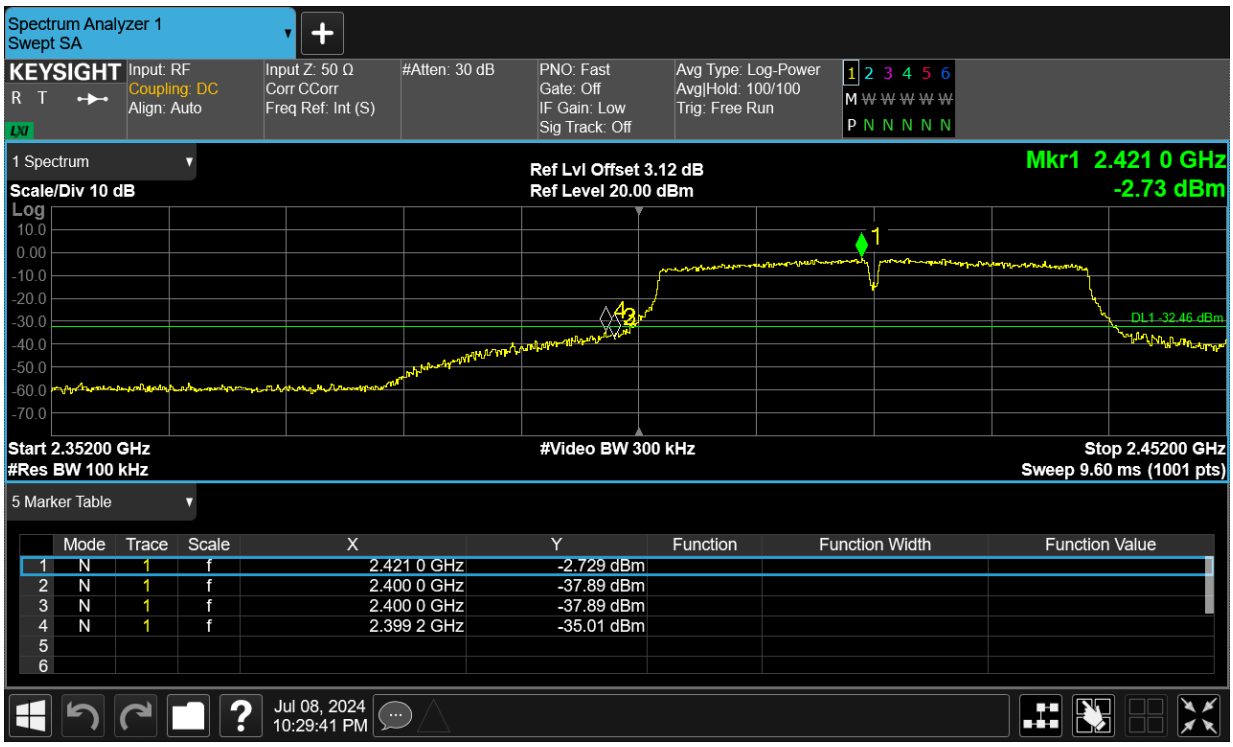
Band Edge NVNT n20 2462MHz Ant4 Emission



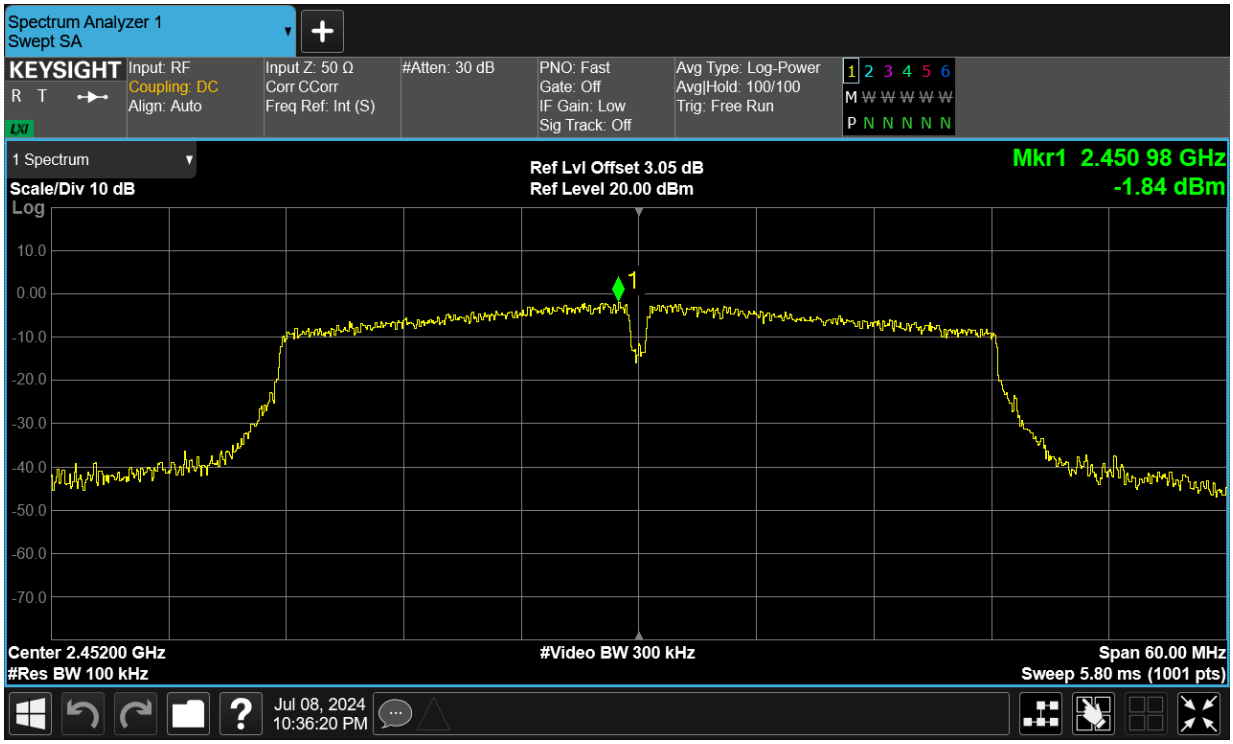
Band Edge NVNT n40 2422MHz Ant4 Ref



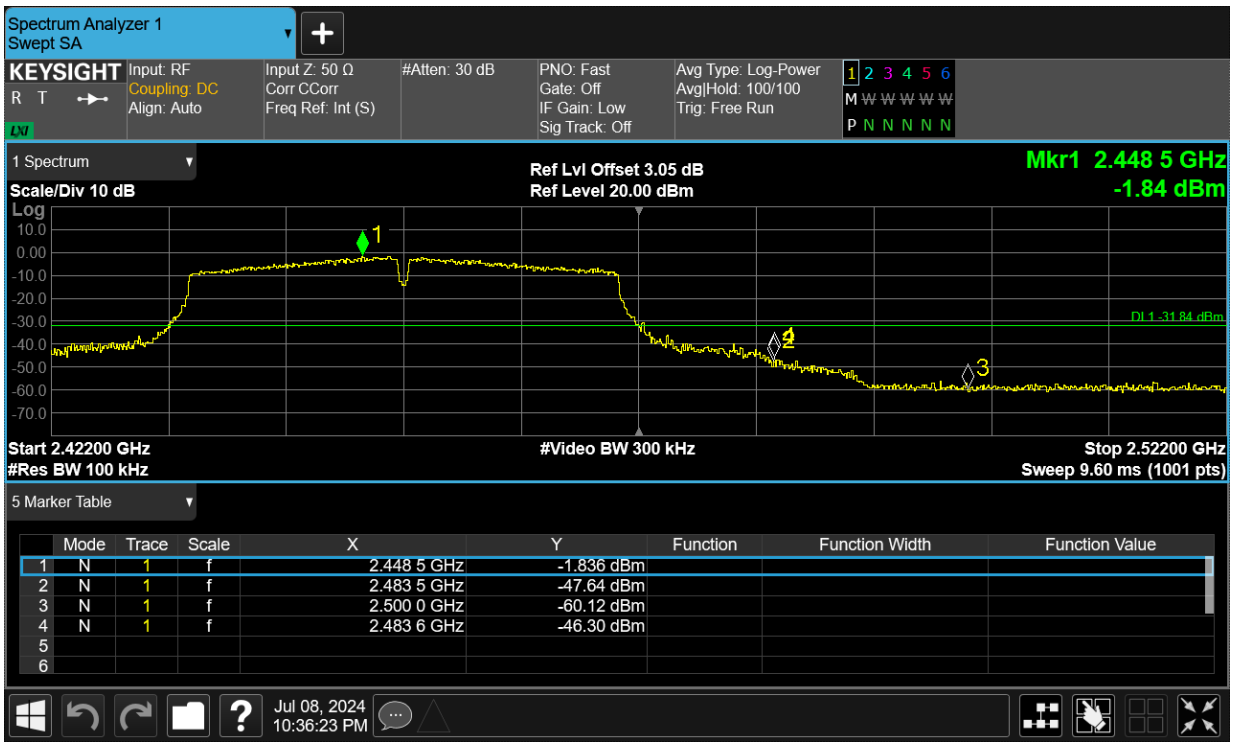
Band Edge NVNT n40 2422MHz Ant4 Emission



Band Edge NVNT n40 2452MHz Ant4 Ref



Band Edge NVNT n40 2452MHz Ant4 Emission

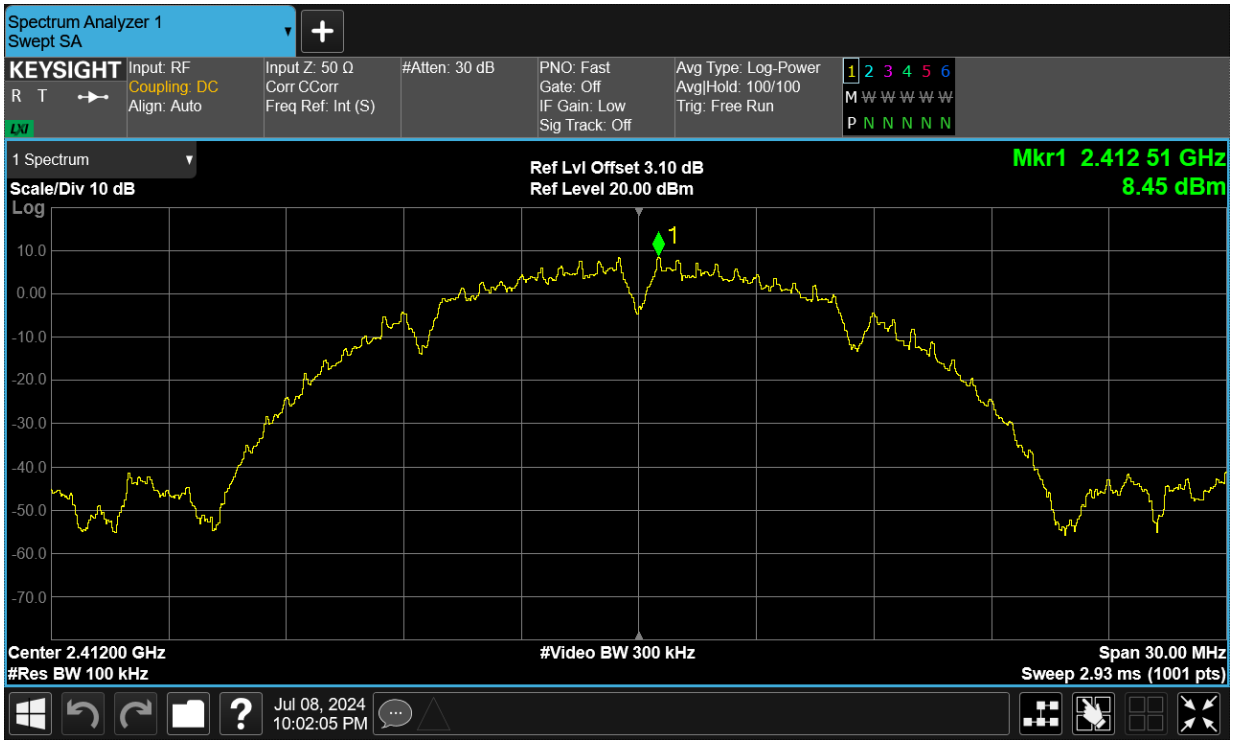


Conducted RF Spurious Emission

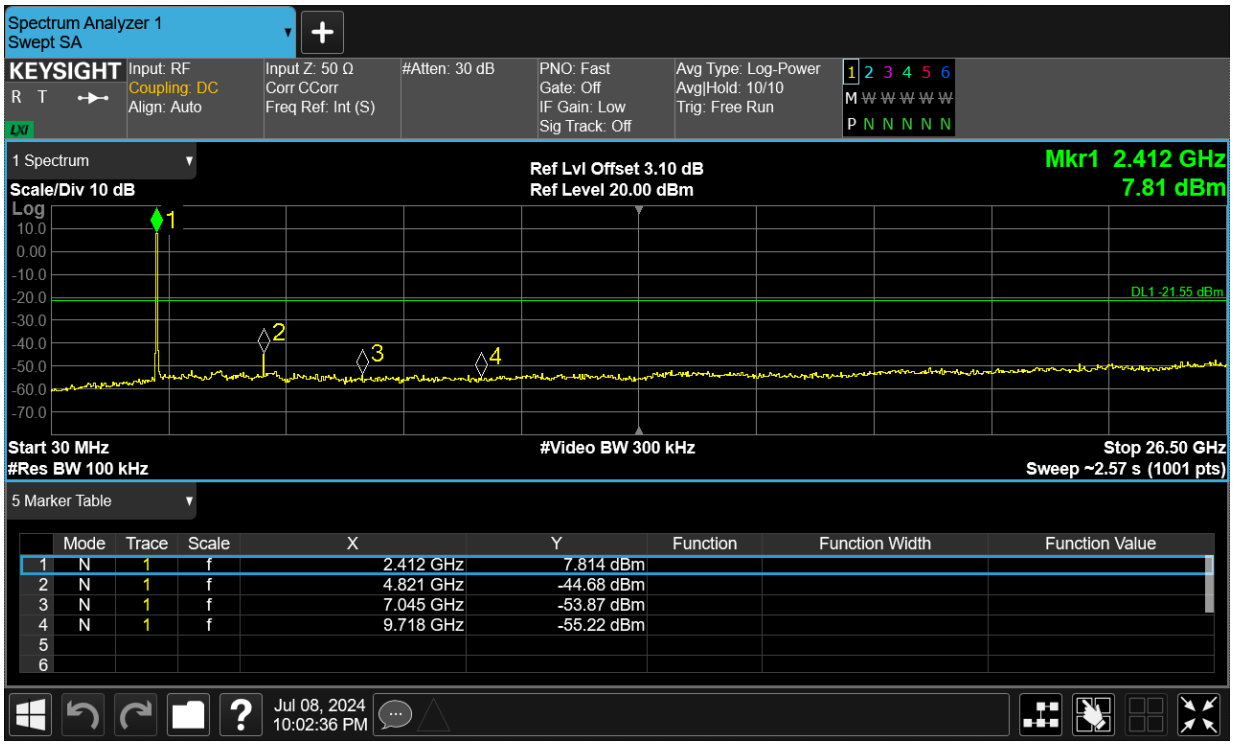
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant4	-53.14	-30	Pass
NVNT	b	2437	Ant4	-55.7	-30	Pass
NVNT	b	2462	Ant4	-54.41	-30	Pass
NVNT	g	2412	Ant4	-49.08	-30	Pass
NVNT	g	2437	Ant4	-49.18	-30	Pass
NVNT	g	2462	Ant4	-49.07	-30	Pass
NVNT	n20	2412	Ant4	-48.59	-30	Pass
NVNT	n20	2437	Ant4	-48.78	-30	Pass
NVNT	n20	2462	Ant4	-48.65	-30	Pass
NVNT	n40	2422	Ant4	-44.7	-30	Pass
NVNT	n40	2437	Ant4	-45.72	-30	Pass
NVNT	n40	2452	Ant4	-46.38	-30	Pass

Test Graphs

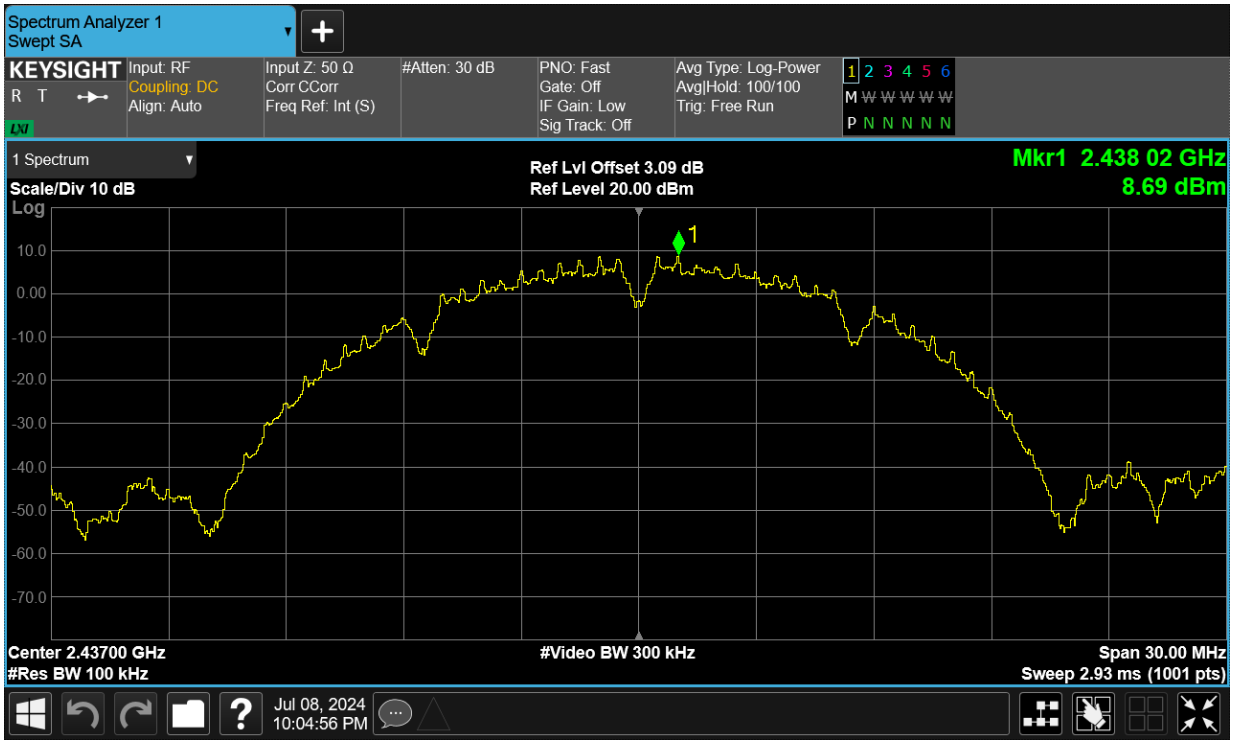
Tx. Spurious NVNT b 2412MHz Ant4 Ref



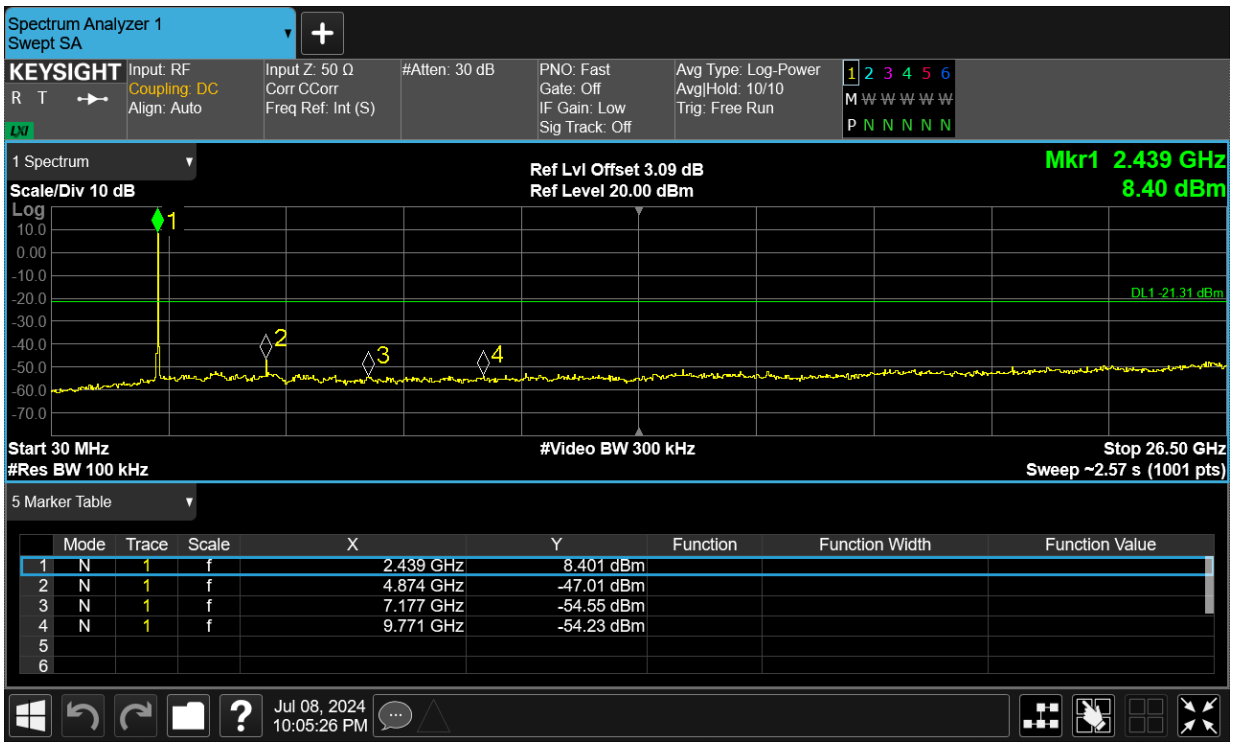
Tx. Spurious NVNT b 2412MHz Ant4 Emission



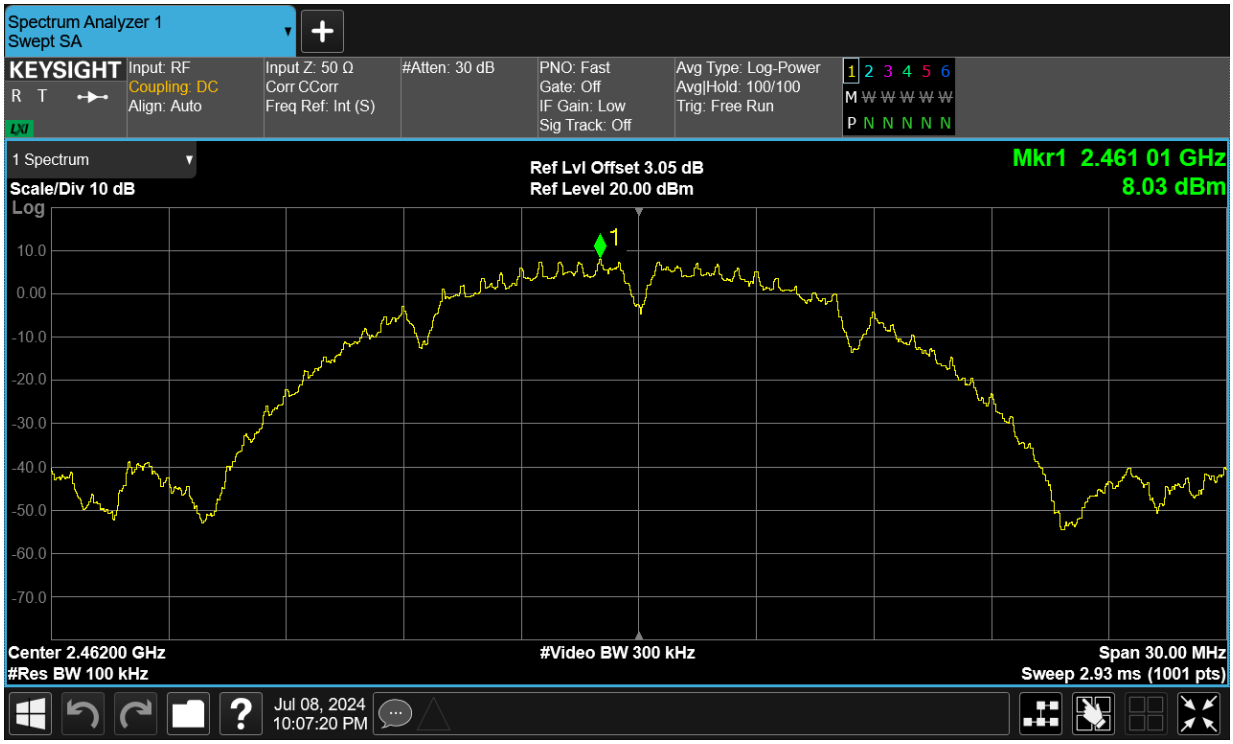
Tx. Spurious NVNT b 2437MHz Ant4 Ref



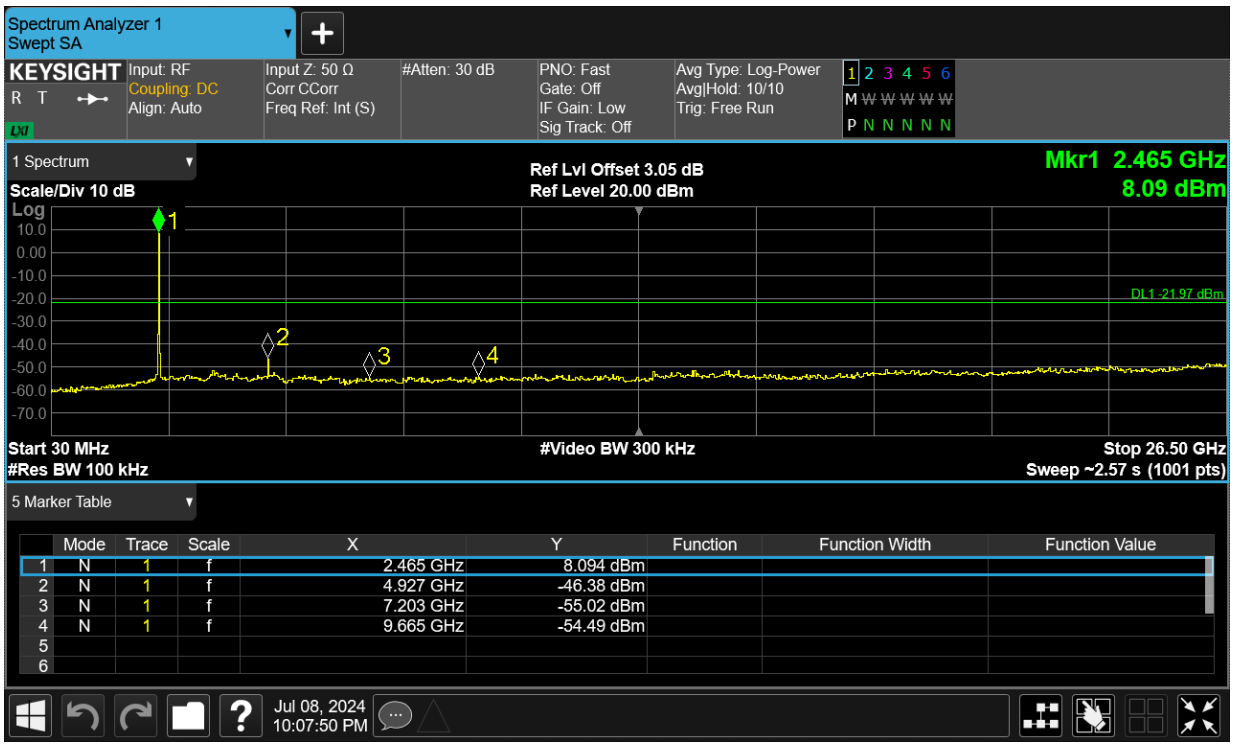
Tx. Spurious NVNT b 2437MHz Ant4 Emission



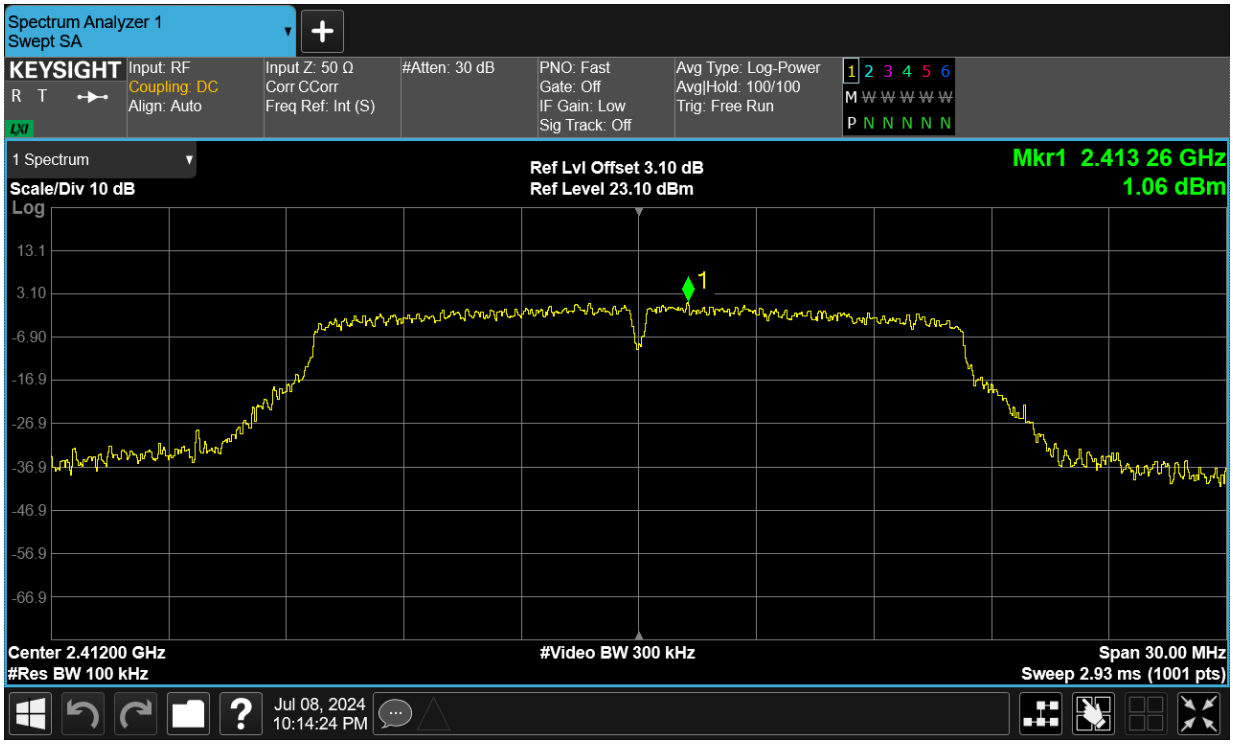
Tx. Spurious NVNT b 2462MHz Ant4 Ref



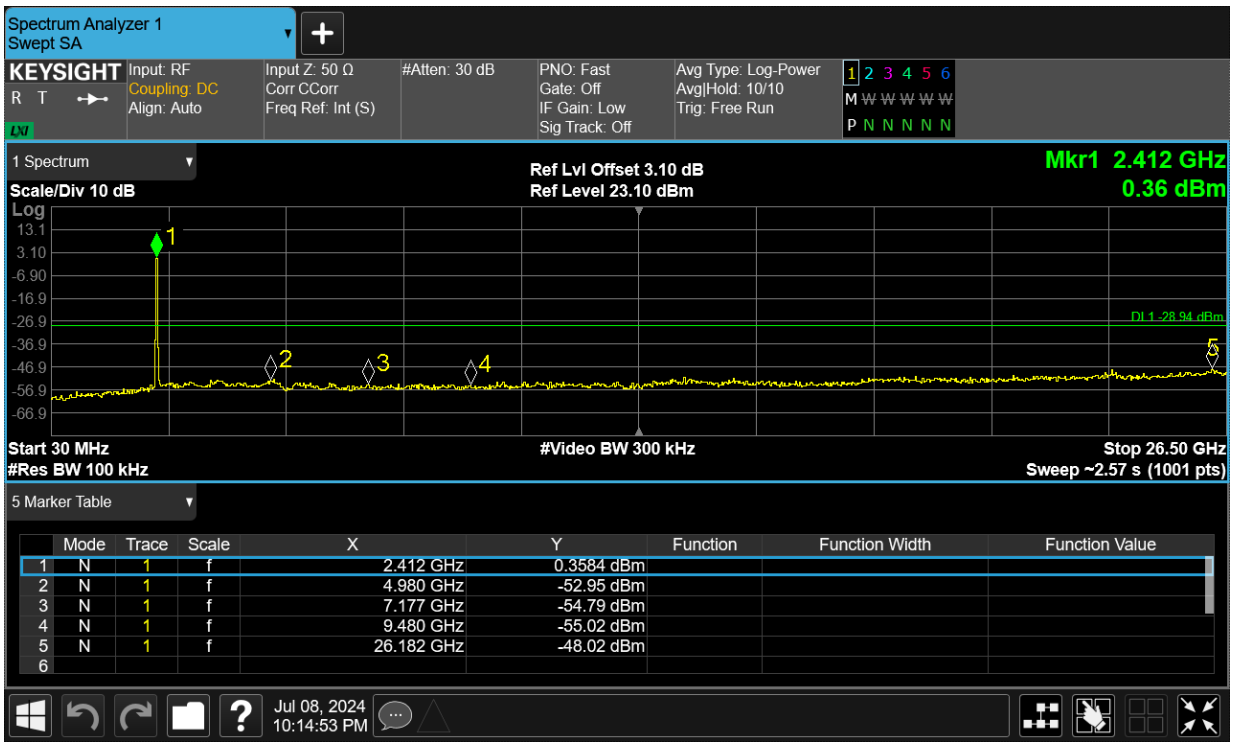
Tx. Spurious NVNT b 2462MHz Ant4 Emission



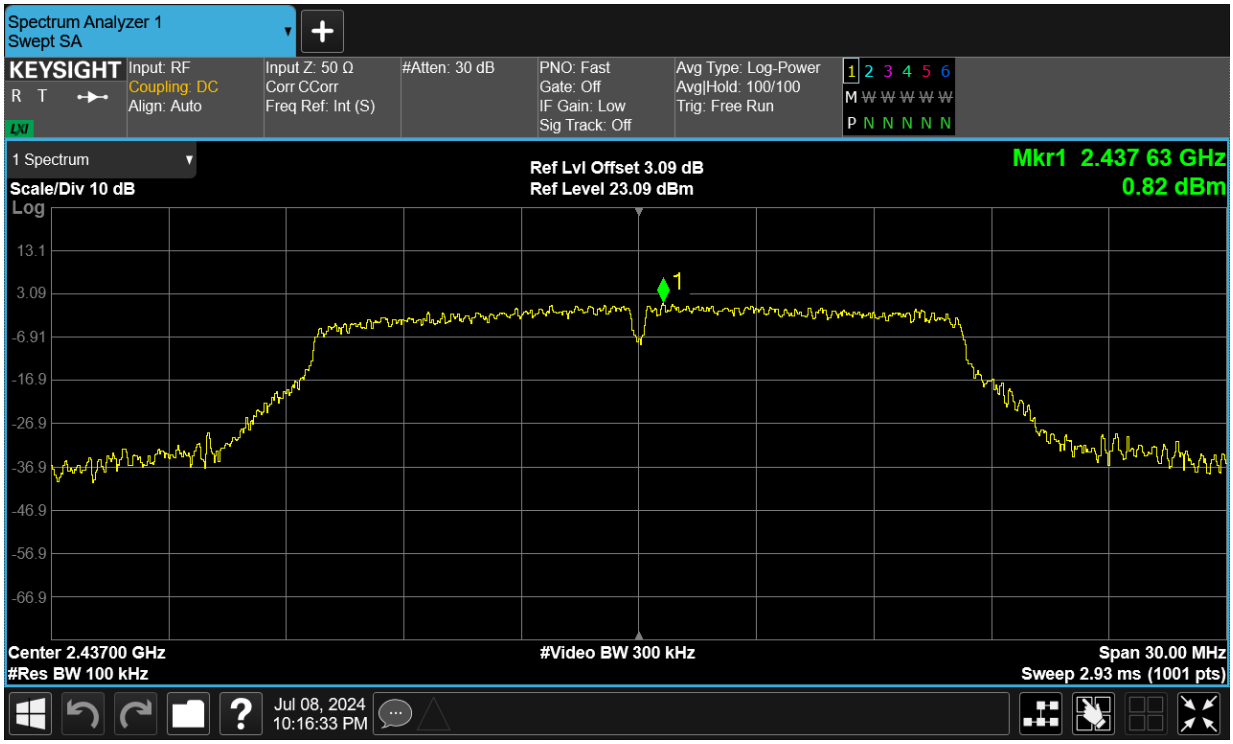
Tx. Spurious NVNT g 2412MHz Ant4 Ref



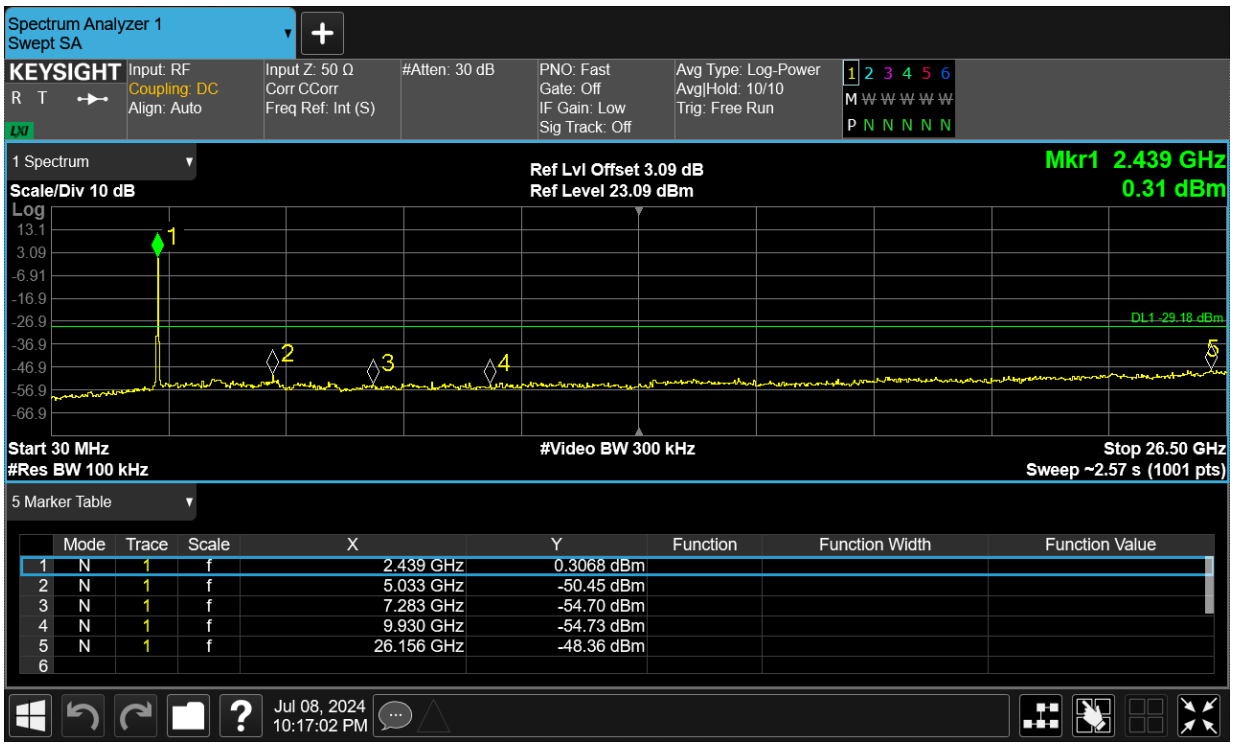
Tx. Spurious NVNT g 2412MHz Ant4 Emission



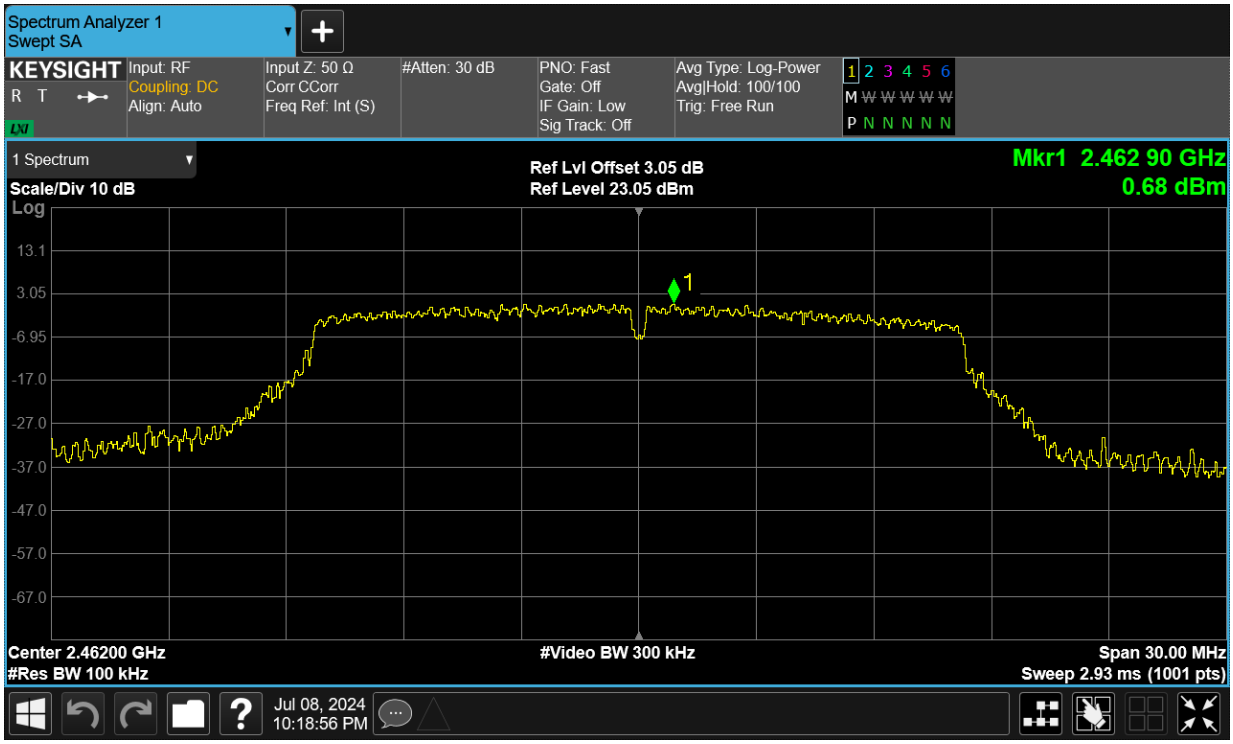
Tx. Spurious NVNT g 2437MHz Ant4 Ref



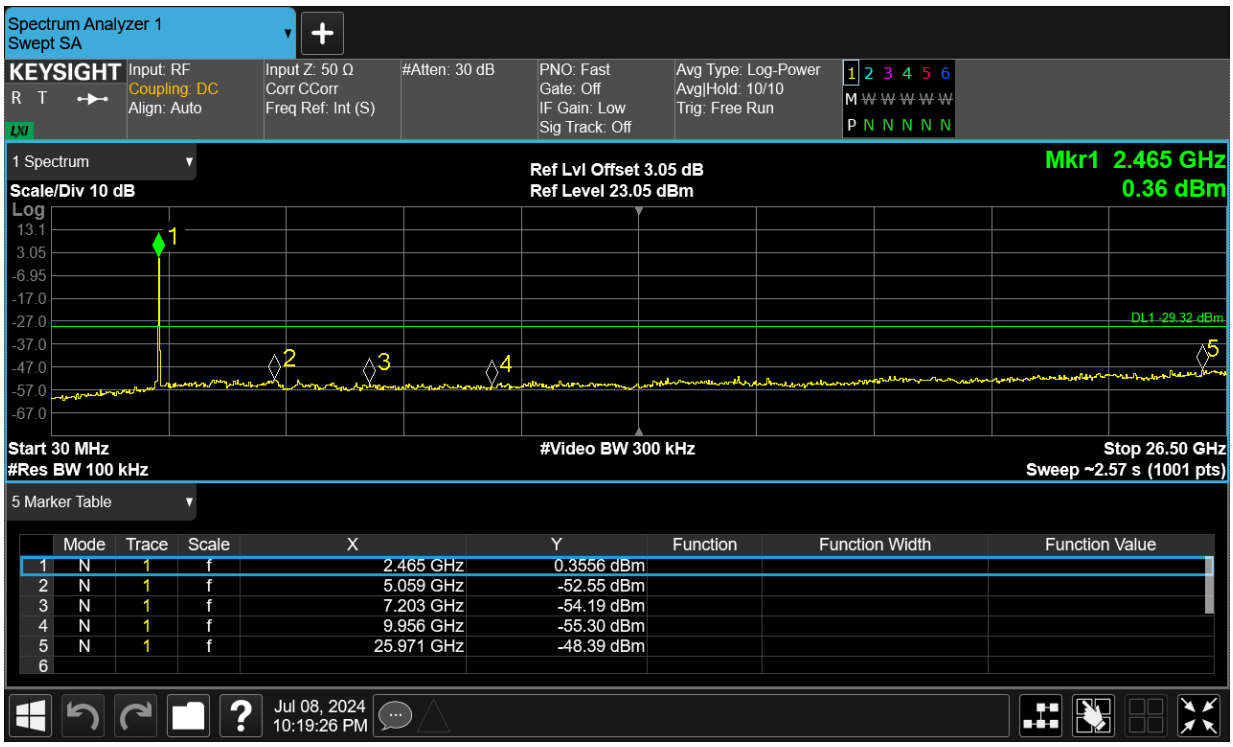
Tx. Spurious NVNT g 2437MHz Ant4 Emission



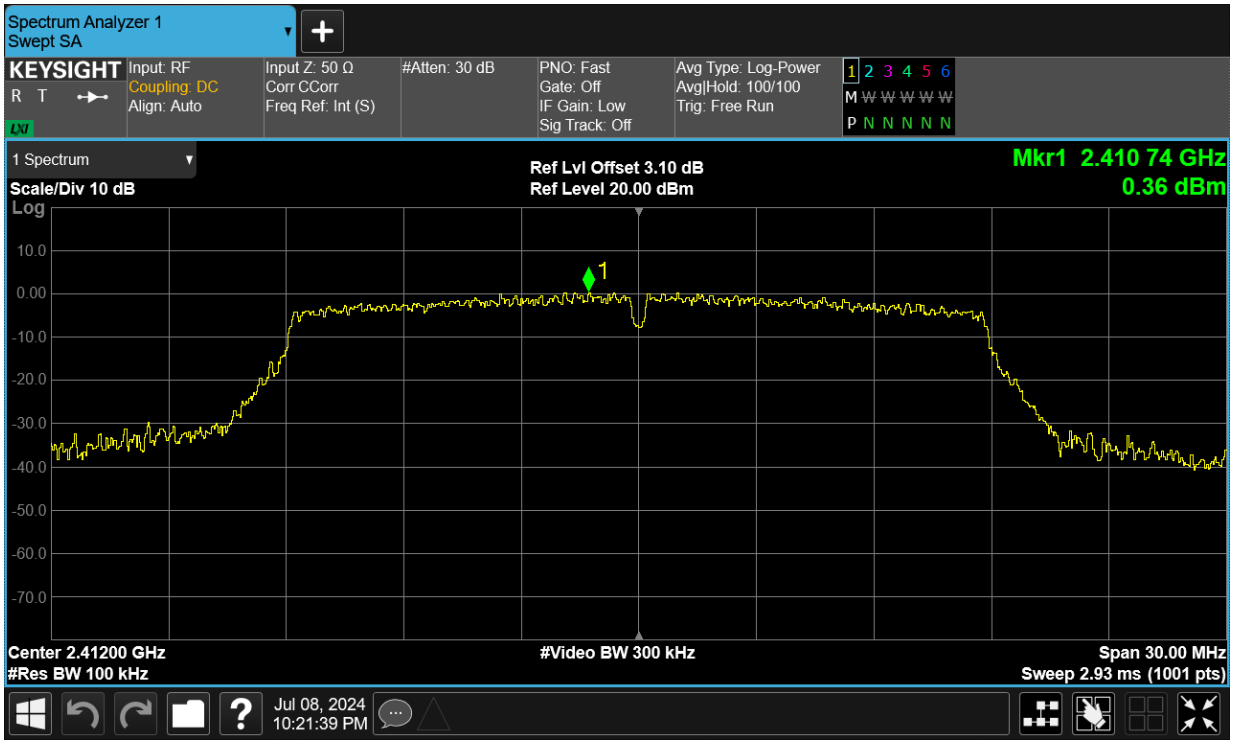
Tx. Spurious NVNT g 2462MHz Ant4 Ref



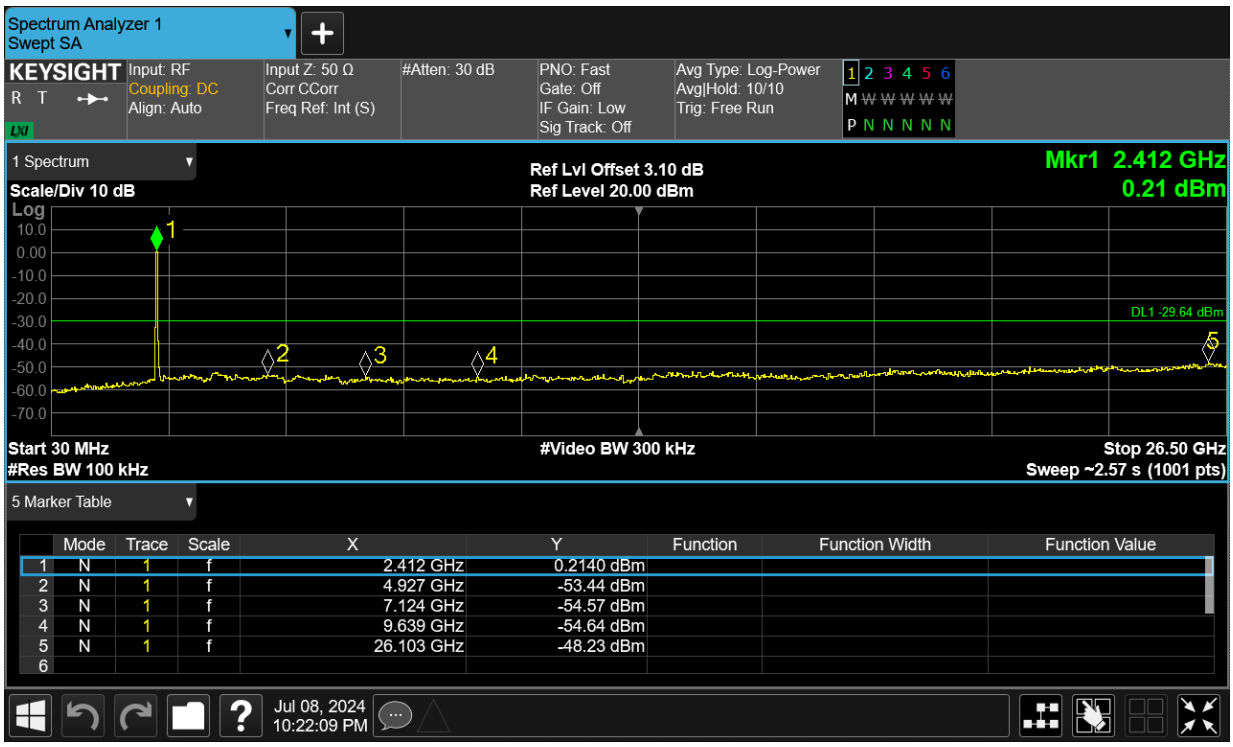
Tx. Spurious NVNT g 2462MHz Ant4 Emission



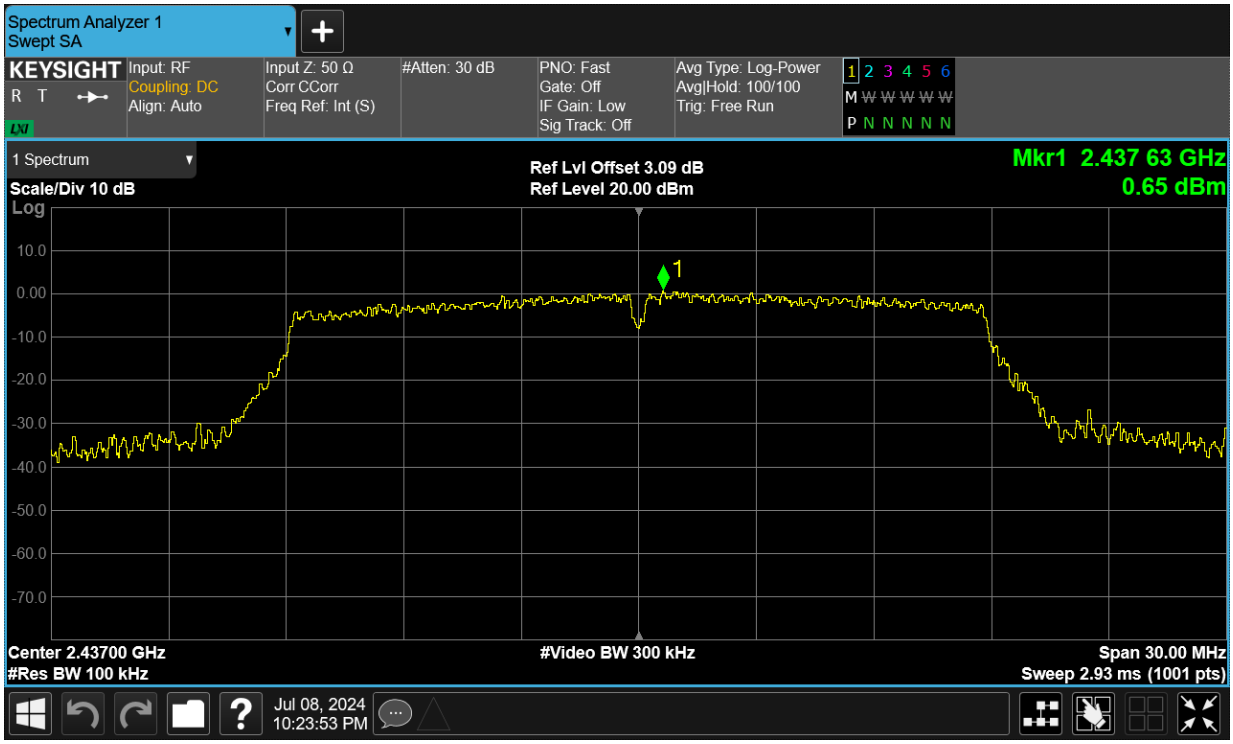
Tx. Spurious NVNT n20 2412MHz Ant4 Ref



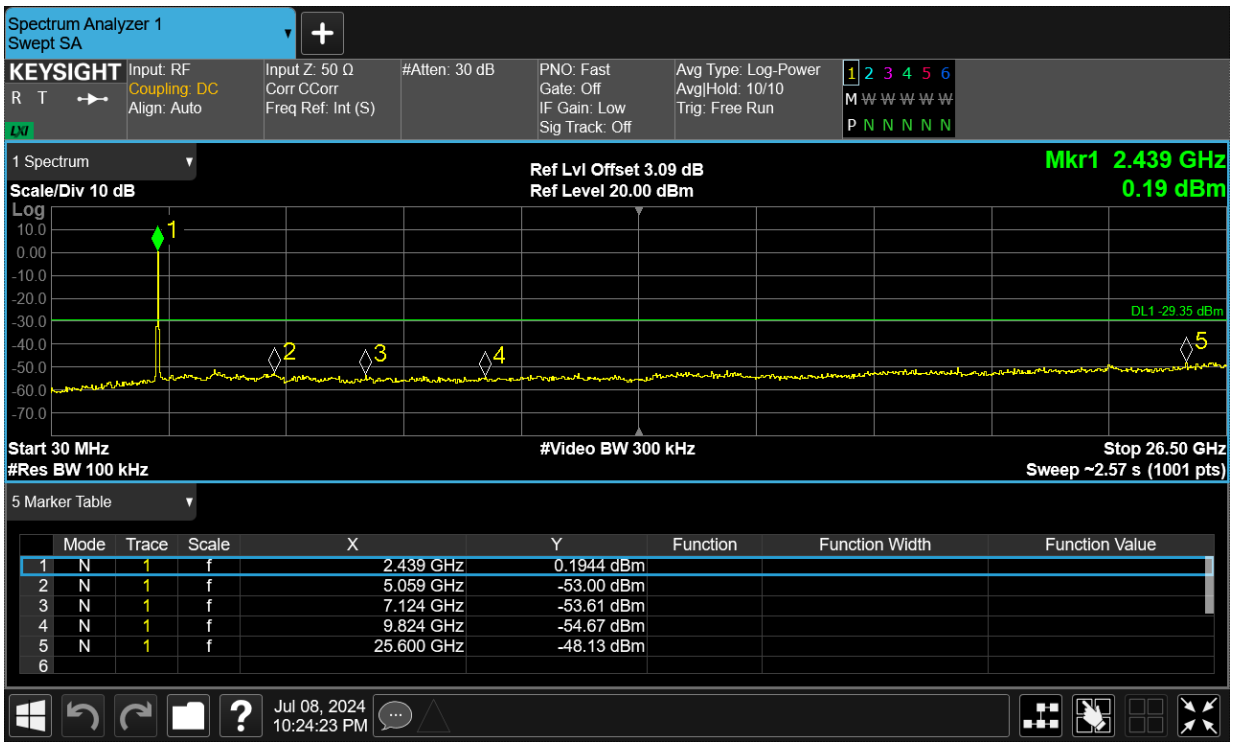
Tx. Spurious NVNT n20 2412MHz Ant4 Emission



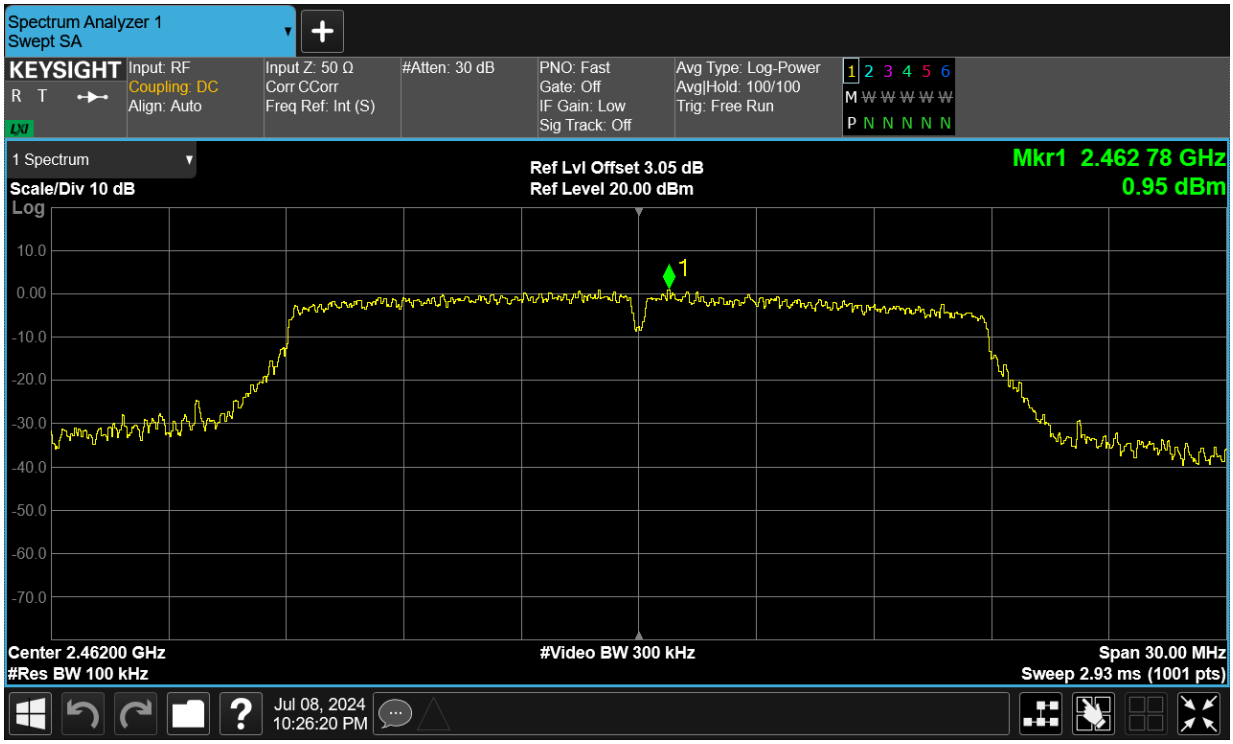
Tx. Spurious NVNT n20 2437MHz Ant4 Ref



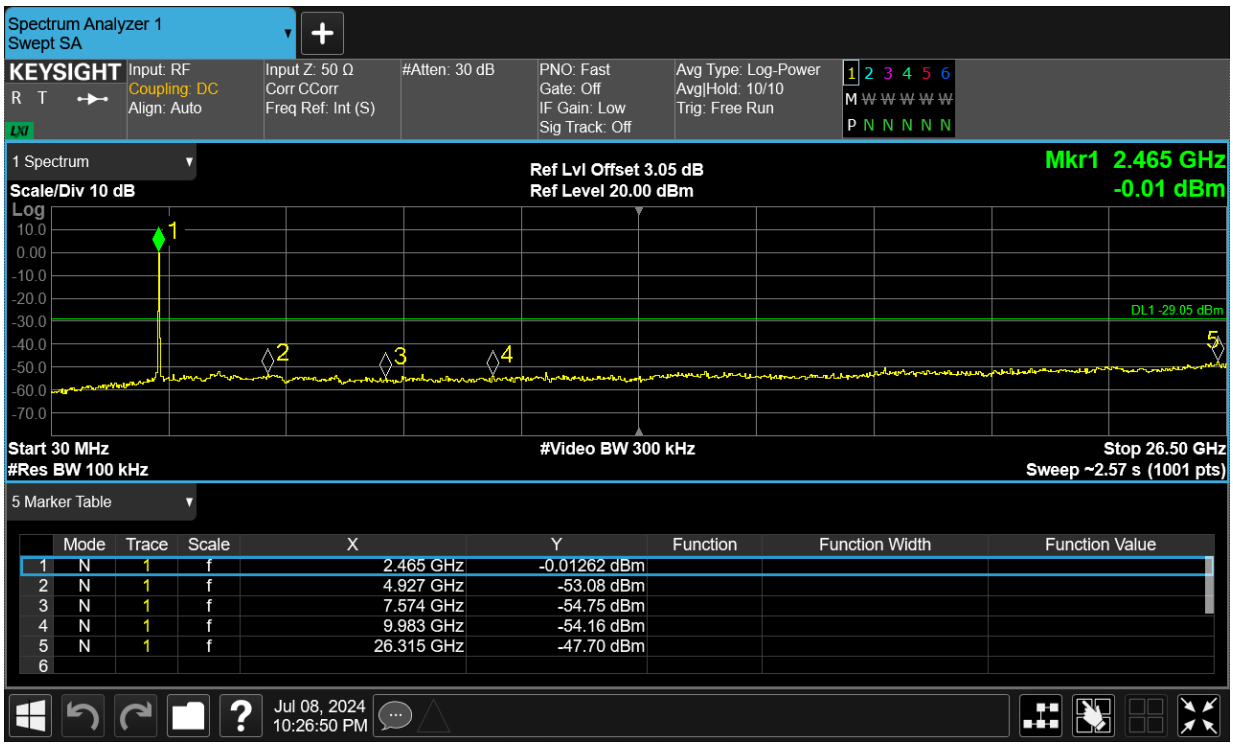
Tx. Spurious NVNT n20 2437MHz Ant4 Emission



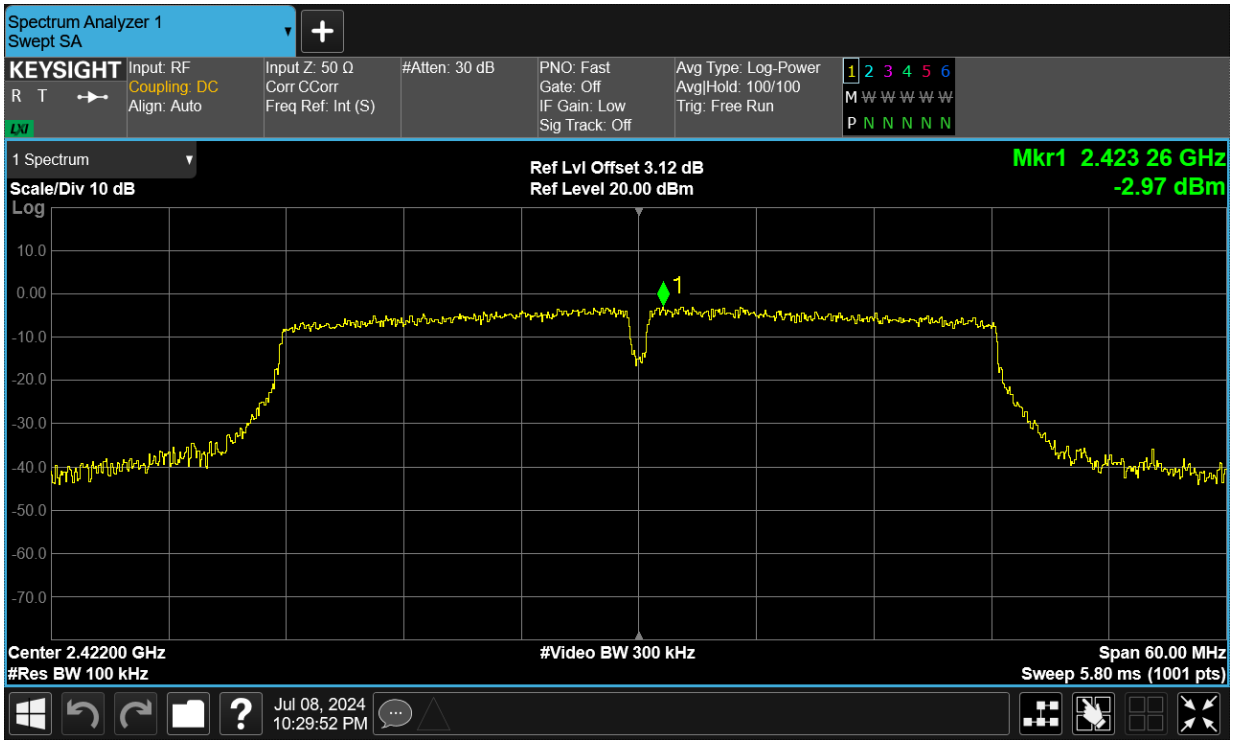
Tx. Spurious NVNT n20 2462MHz Ant4 Ref



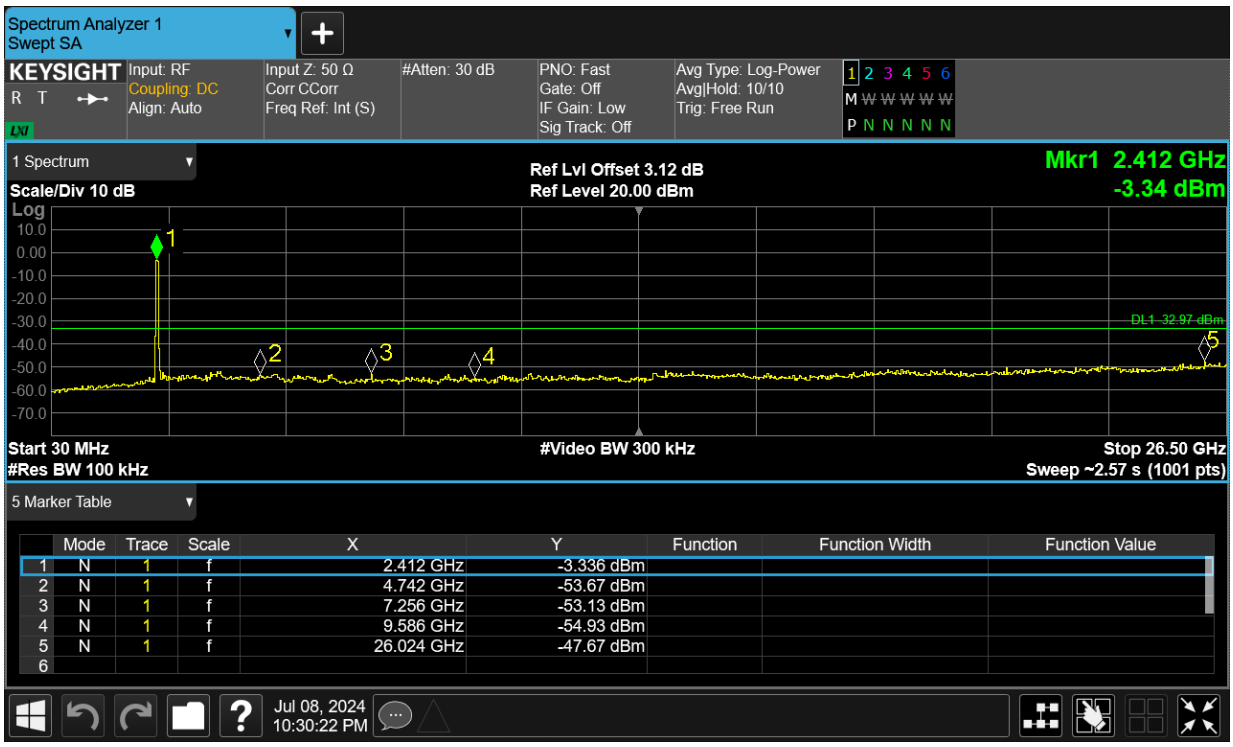
Tx. Spurious NVNT n20 2462MHz Ant4 Emission



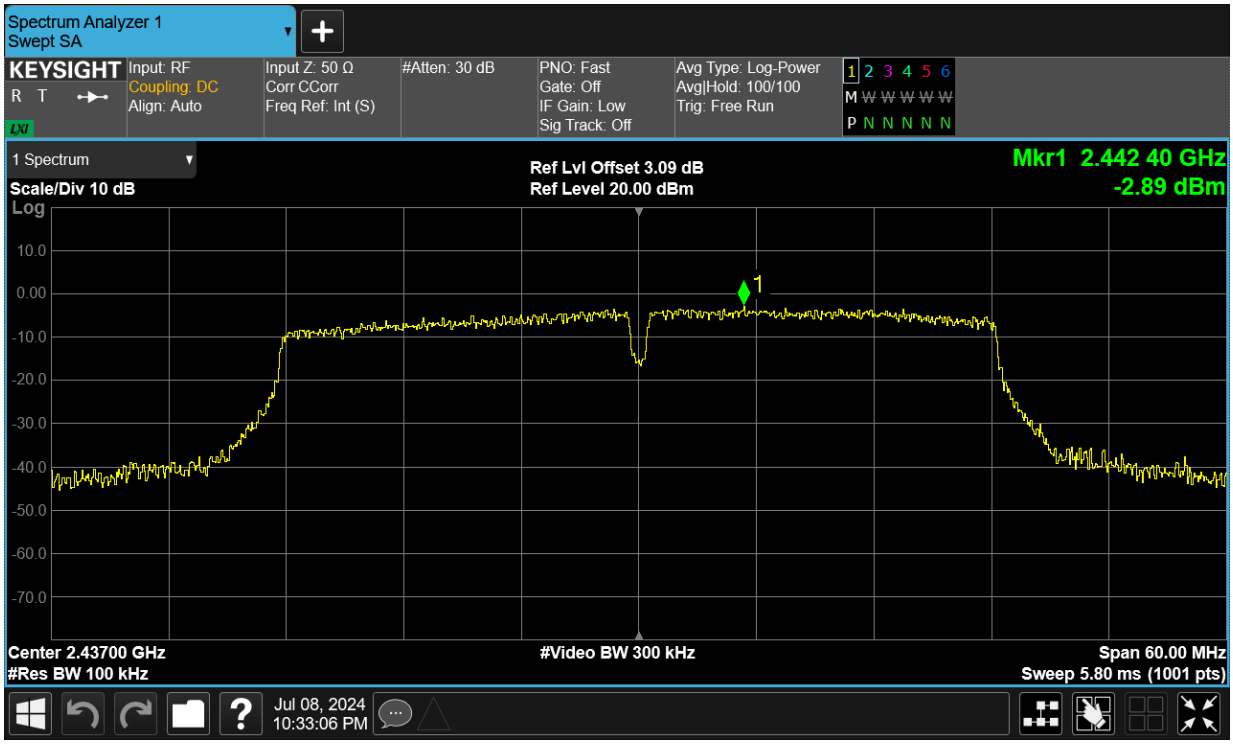
Tx. Spurious NVNT n40 2422MHz Ant4 Ref



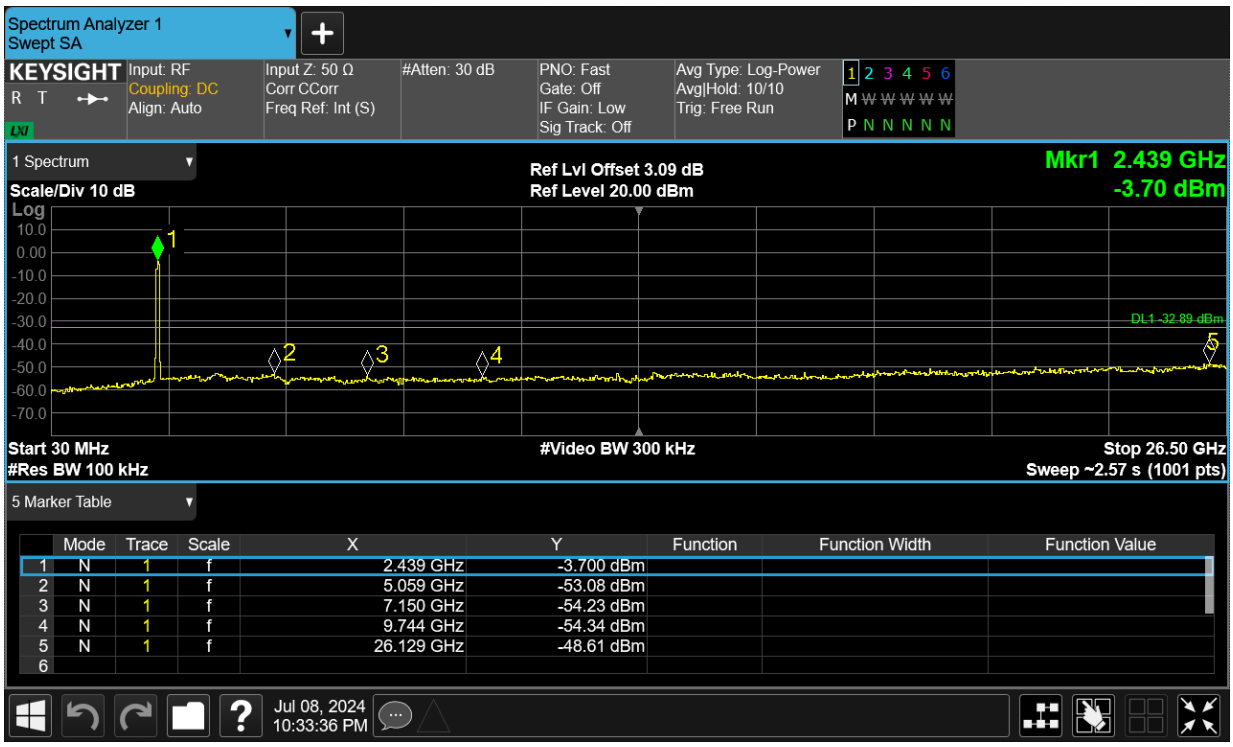
Tx. Spurious NVNT n40 2422MHz Ant4 Emission



Tx. Spurious NVNT n40 2437MHz Ant4 Ref



Tx. Spurious NVNT n40 2437MHz Ant4 Emission



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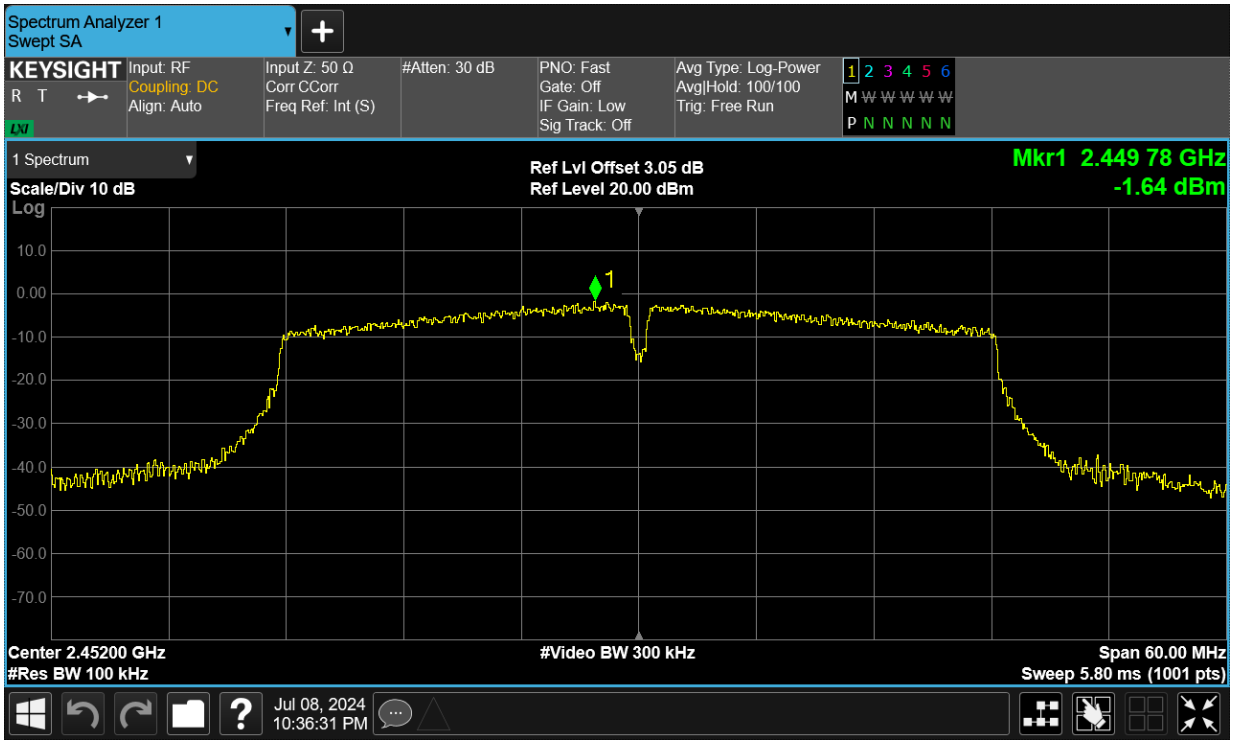
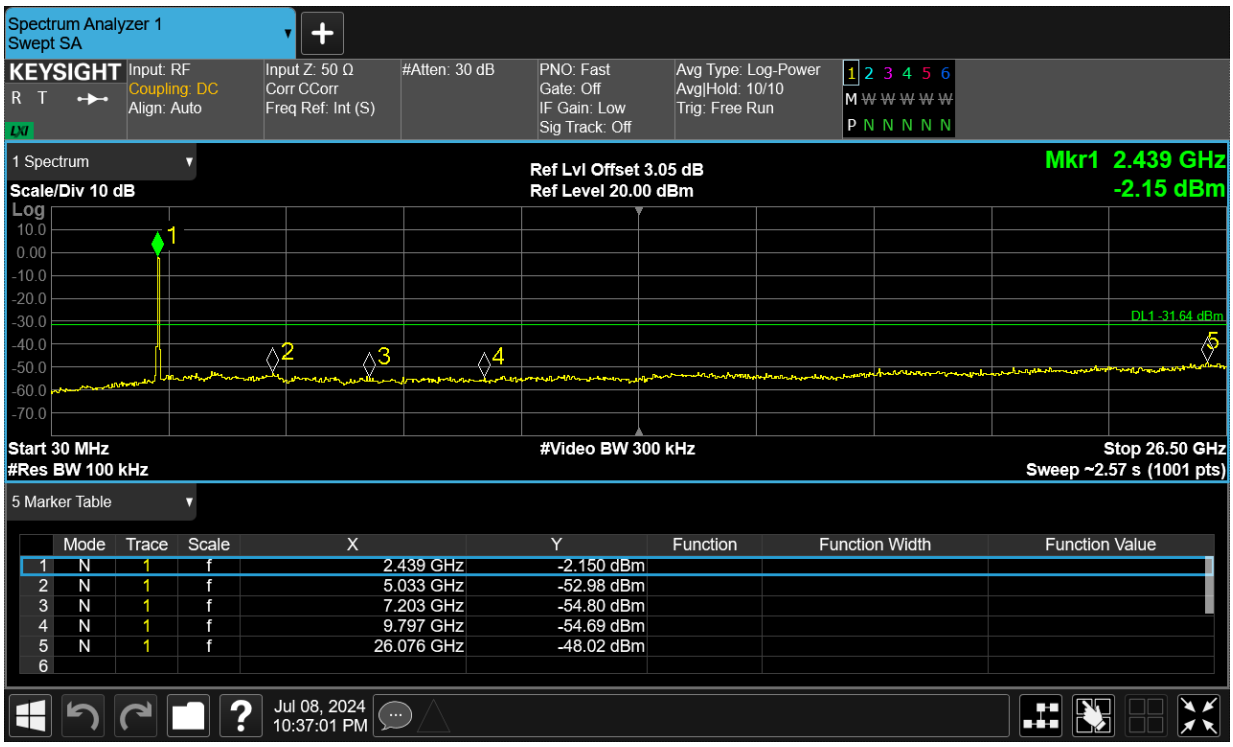
1	N	1	f	2.439 GHz	-3.700 dBm			
2	N	1	f	5.059 GHz	-53.08 dBm			
3	N	1	f	7.150 GHz	-54.23 dBm			
4	N	1	f	9.744 GHz	-54.34 dBm			
5	N	1	f	26.129 GHz	-48.61 dBm			
6								

Tx. Spurious NVNT n40 2452MHz Ant4 Ref



Tx. Spurious NVNT n40 2452MHz Ant4 Emission