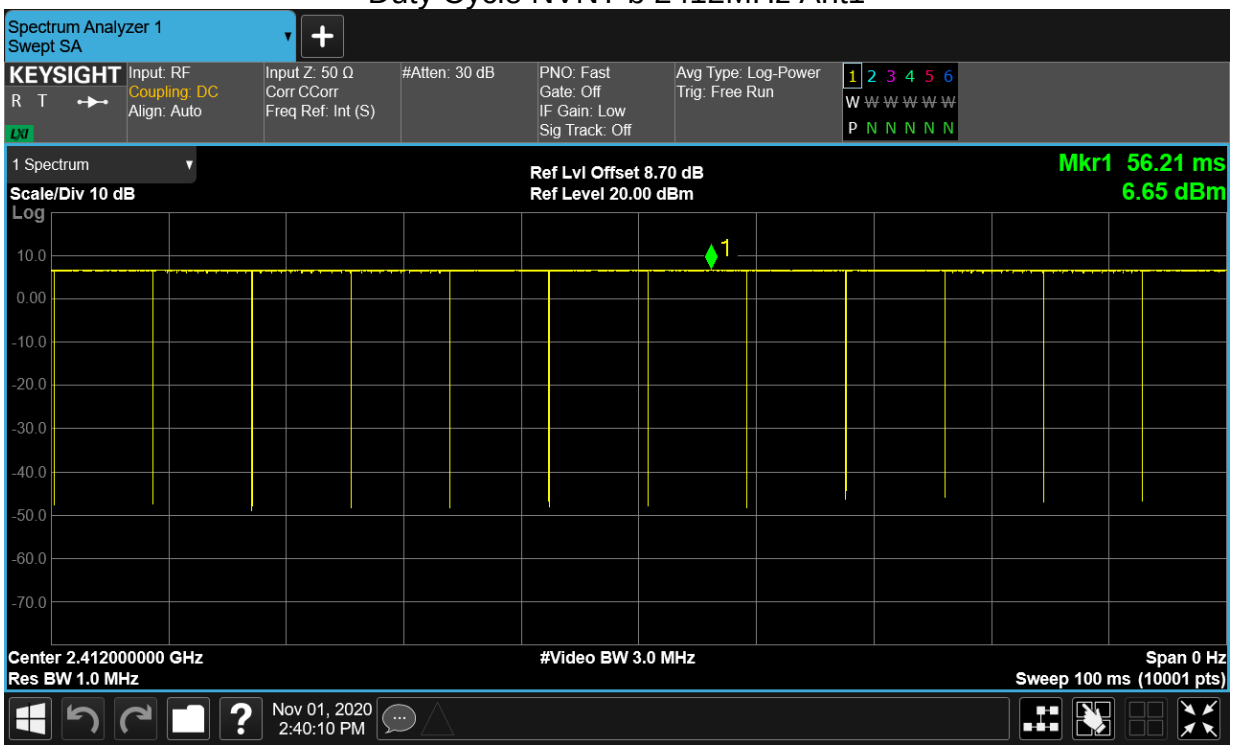
Appendix A - WIFI
Test Data

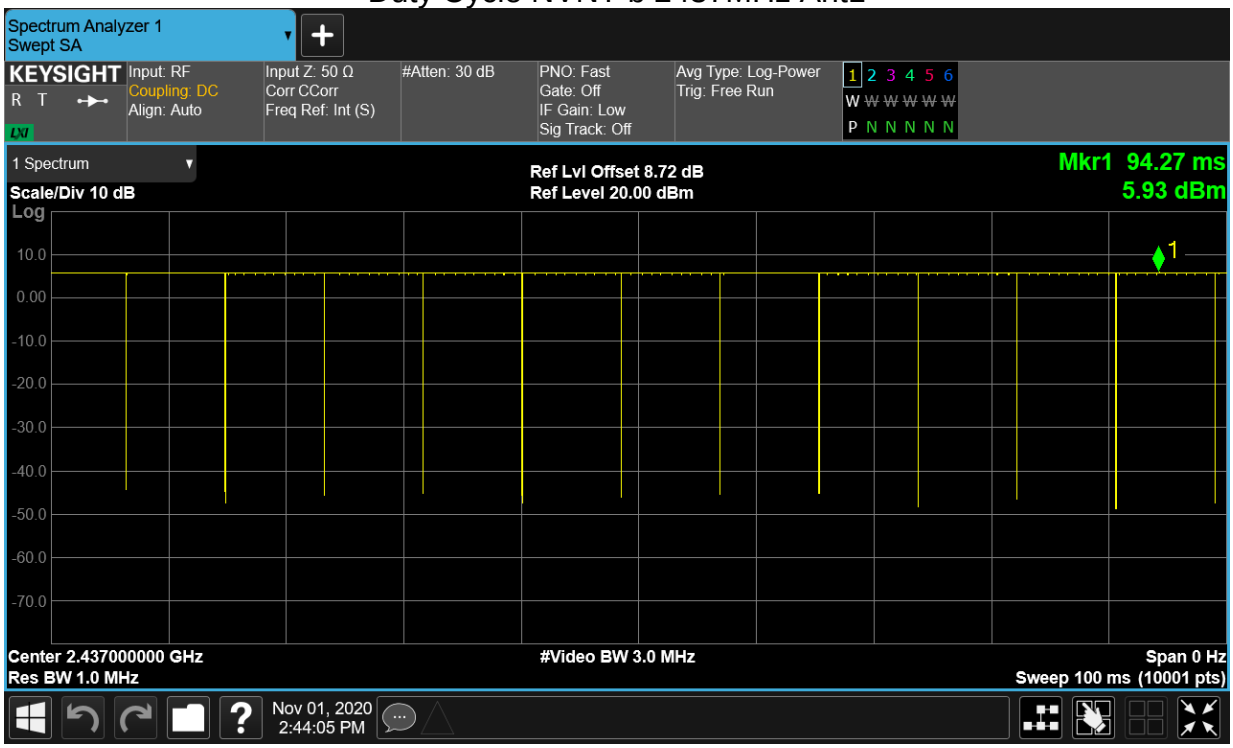
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	99.74	0.01
NVNT	b	2437	Ant1	99.71	0.01
NVNT	b	2462	Ant1	99.66	0.01
NVNT	g	2412	Ant1	97.93	0.09
NVNT	g	2437	Ant1	98.01	0.09
NVNT	g	2462	Ant1	97.63	0.1
NVNT	n20	2412	Ant1	97.95	0.09
NVNT	n20	2437	Ant1	97.92	0.09
NVNT	n20	2462	Ant1	97.69	0.1

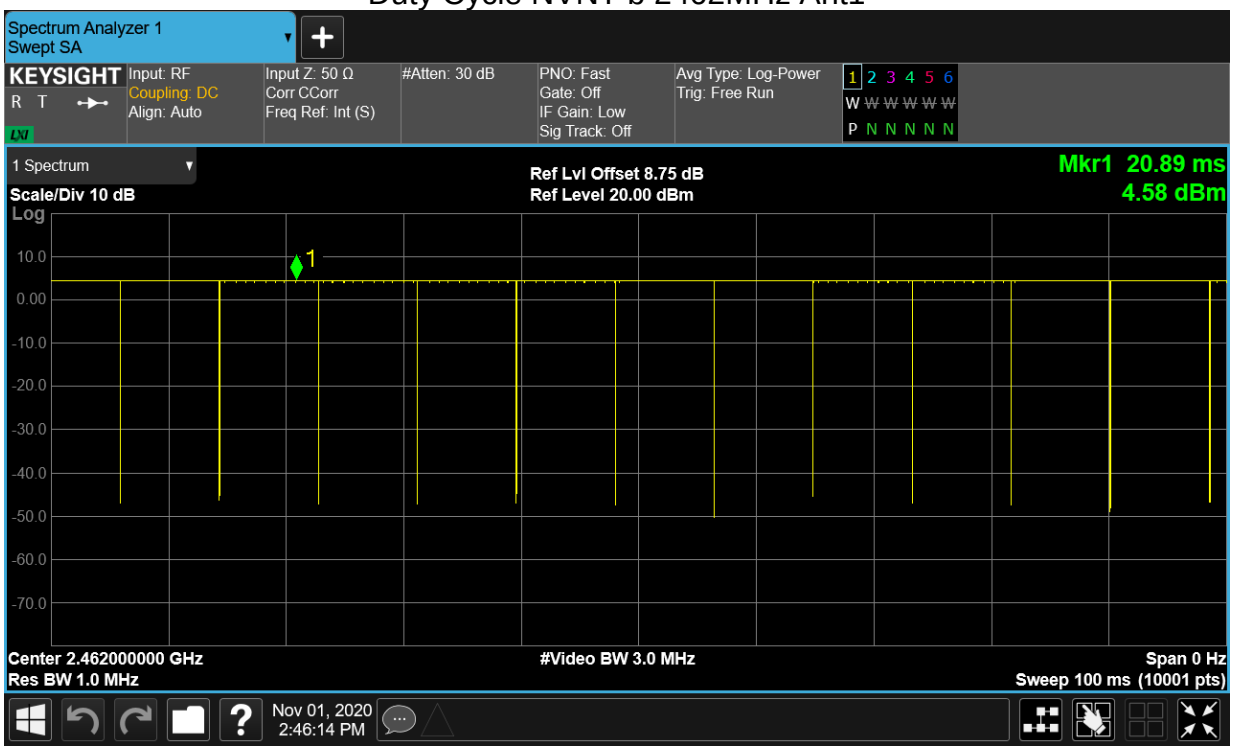
Duty Cycle NVNT b 2412MHz Ant1



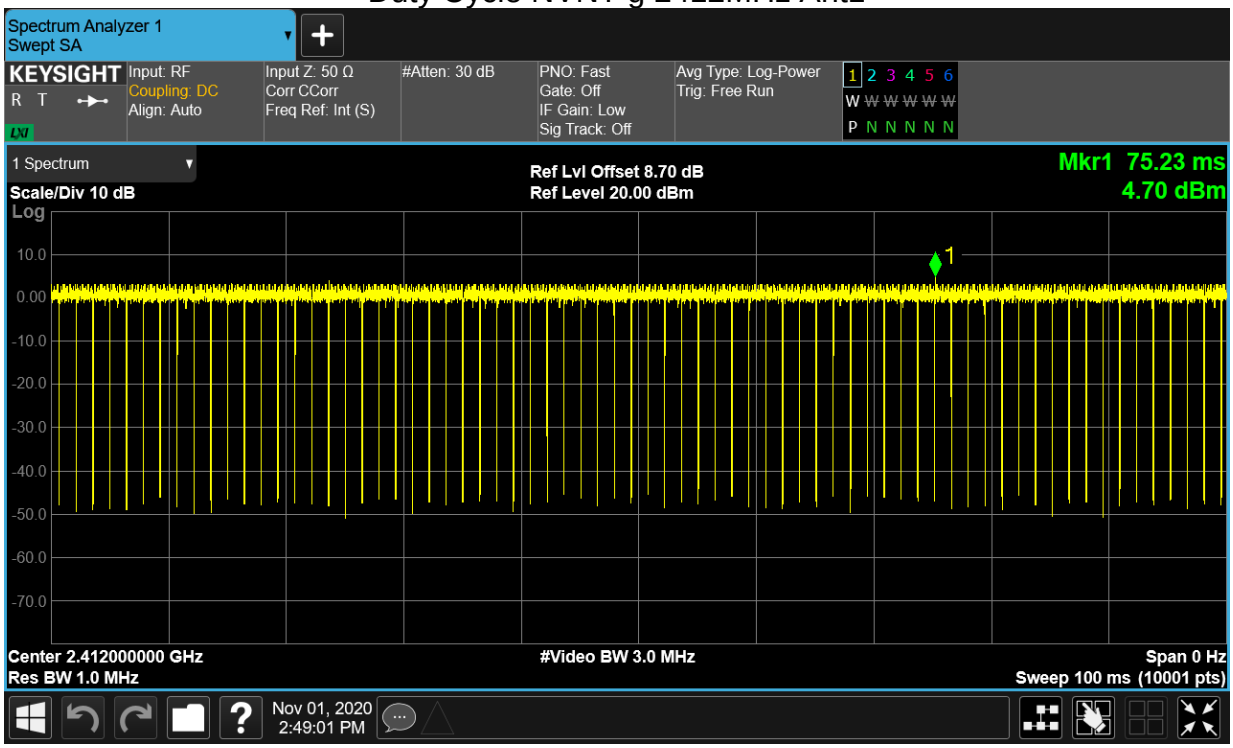
Duty Cycle NVNT b 2437MHz Ant1



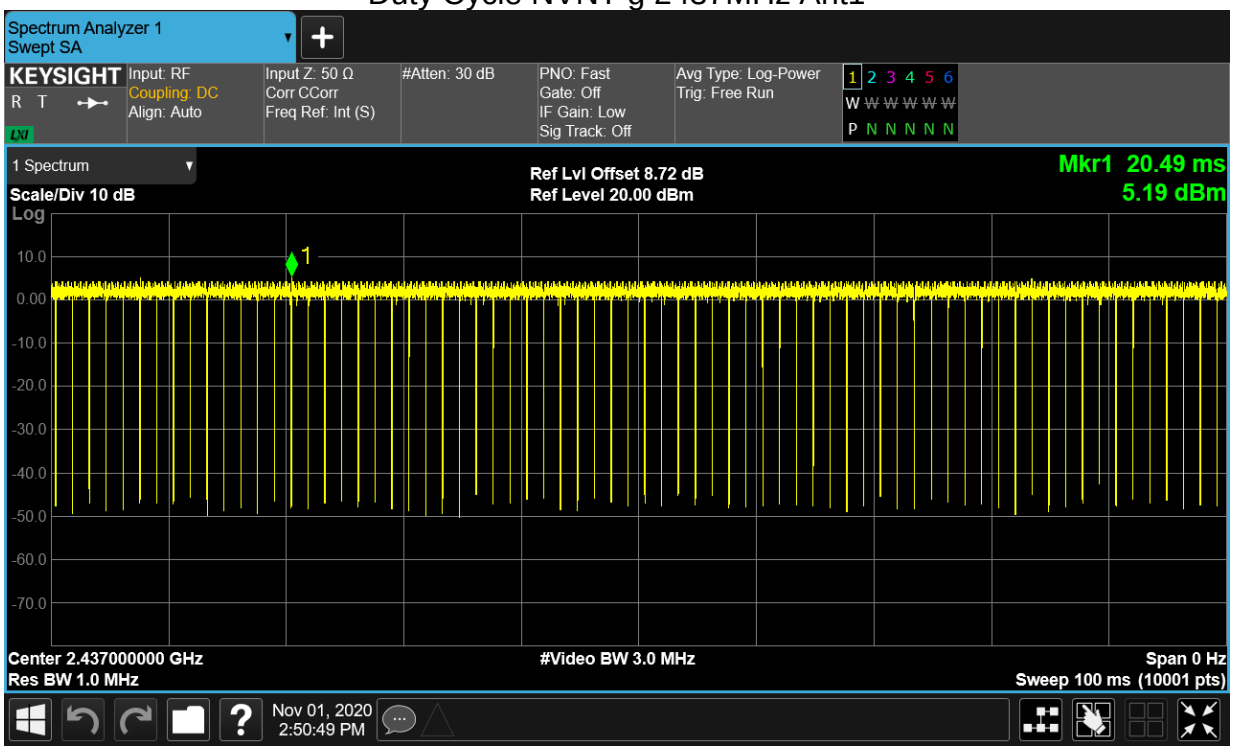
Duty Cycle NVNT b 2462MHz Ant1



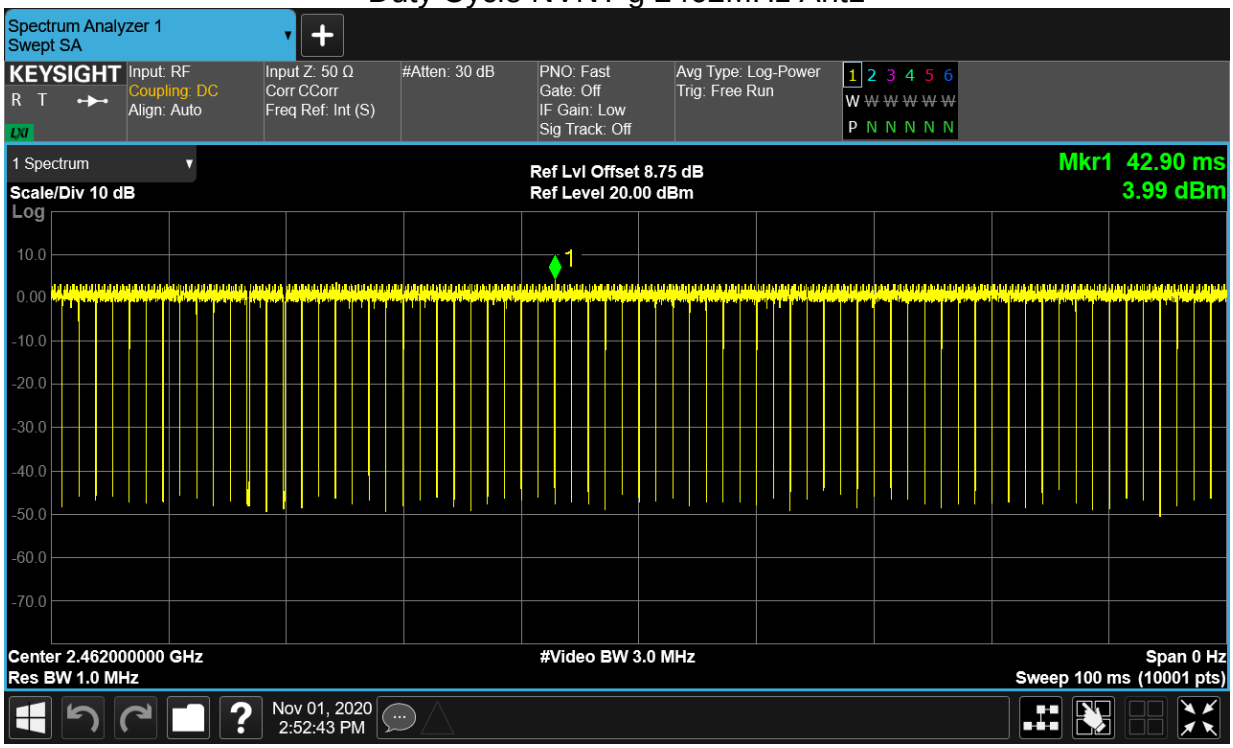
Duty Cycle NVNT g 2412MHz Ant1



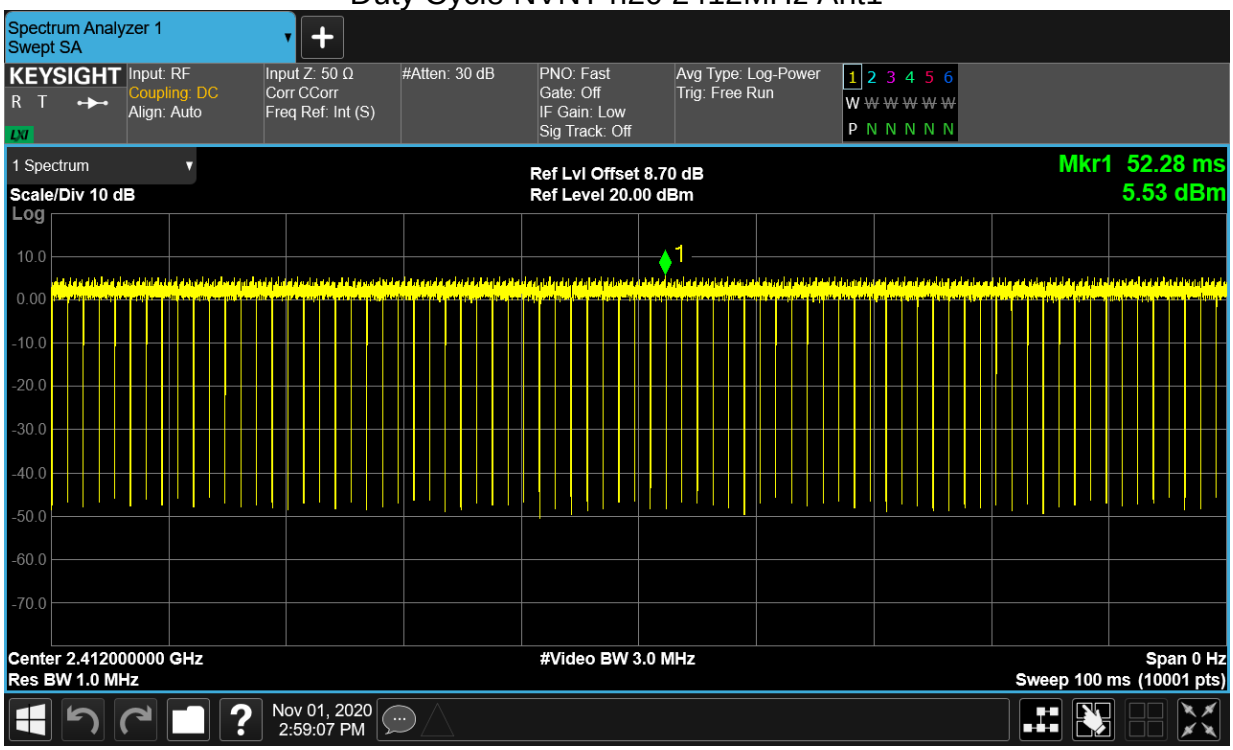
Duty Cycle NVNT g 2437MHz Ant1



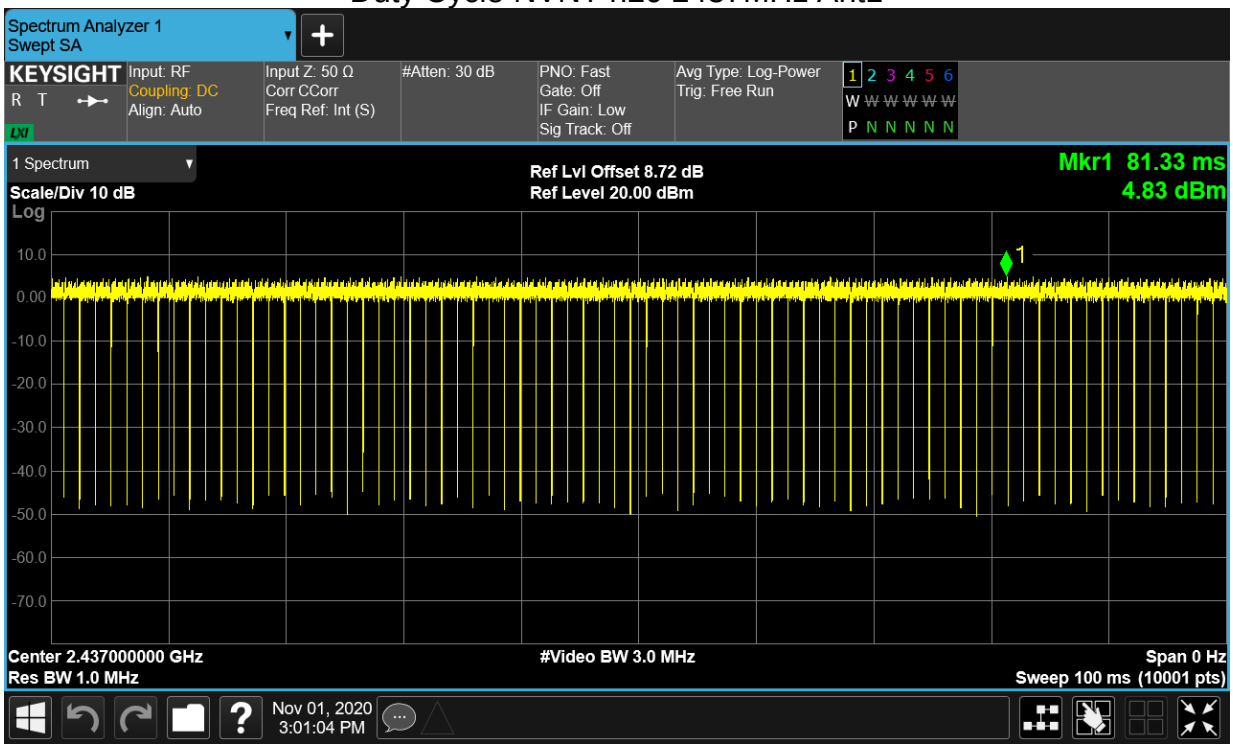
Duty Cycle NVNT g 2462MHz Ant1



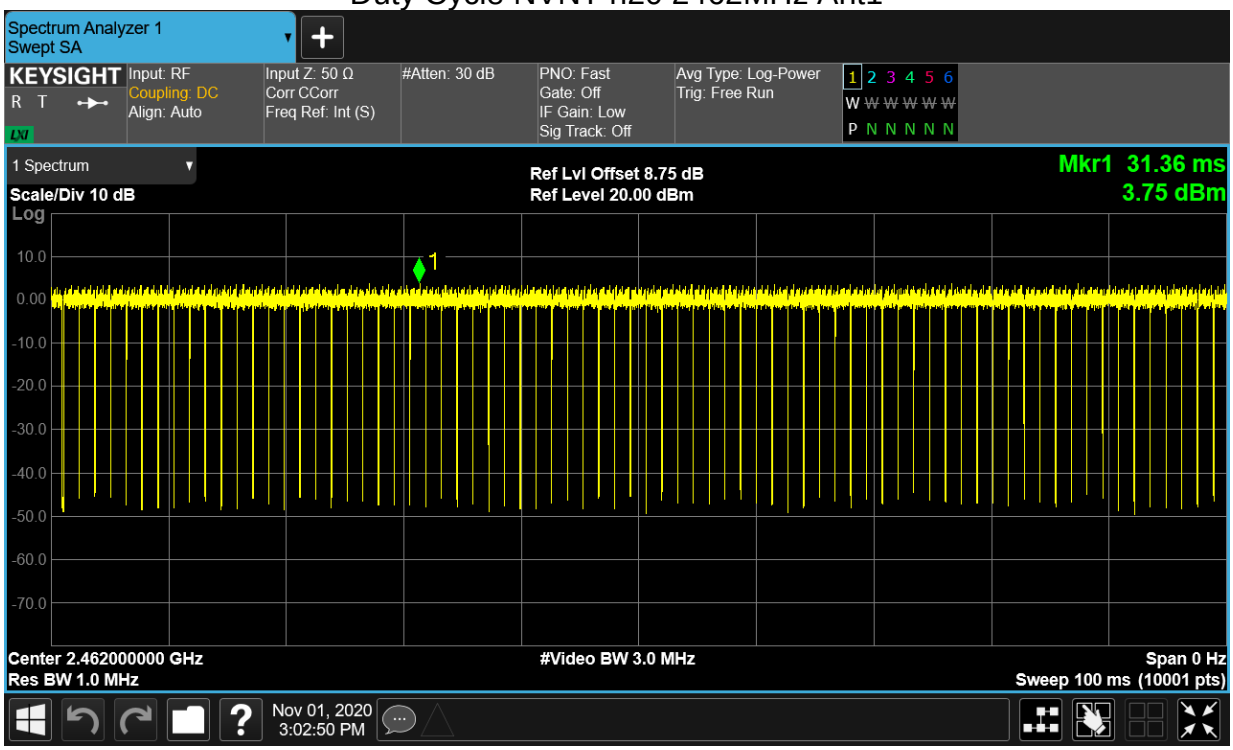
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1



Duty Cycle NVNT n20 2462MHz Ant1



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	12.55	0.01	12.56	30	Pass
NVNT	b	2437	Ant1	11.6	0.01	11.61	30	Pass
NVNT	b	2462	Ant1	10.4	0.01	10.41	30	Pass
NVNT	g	2412	Ant1	8.47	0.09	8.56	30	Pass

NVNT	g	2437	Ant1	9.43	0.09	9.52	30	Pass
NVNT	g	2462	Ant1	8.43	0.1	8.53	30	Pass
NVNT	n20	2412	Ant1	9.84	0.09	9.93	30	Pass
NVNT	n20	2437	Ant1	8.96	0.09	9.05	30	Pass
NVNT	n20	2462	Ant1	7.96	0.1	8.06	30	Pass

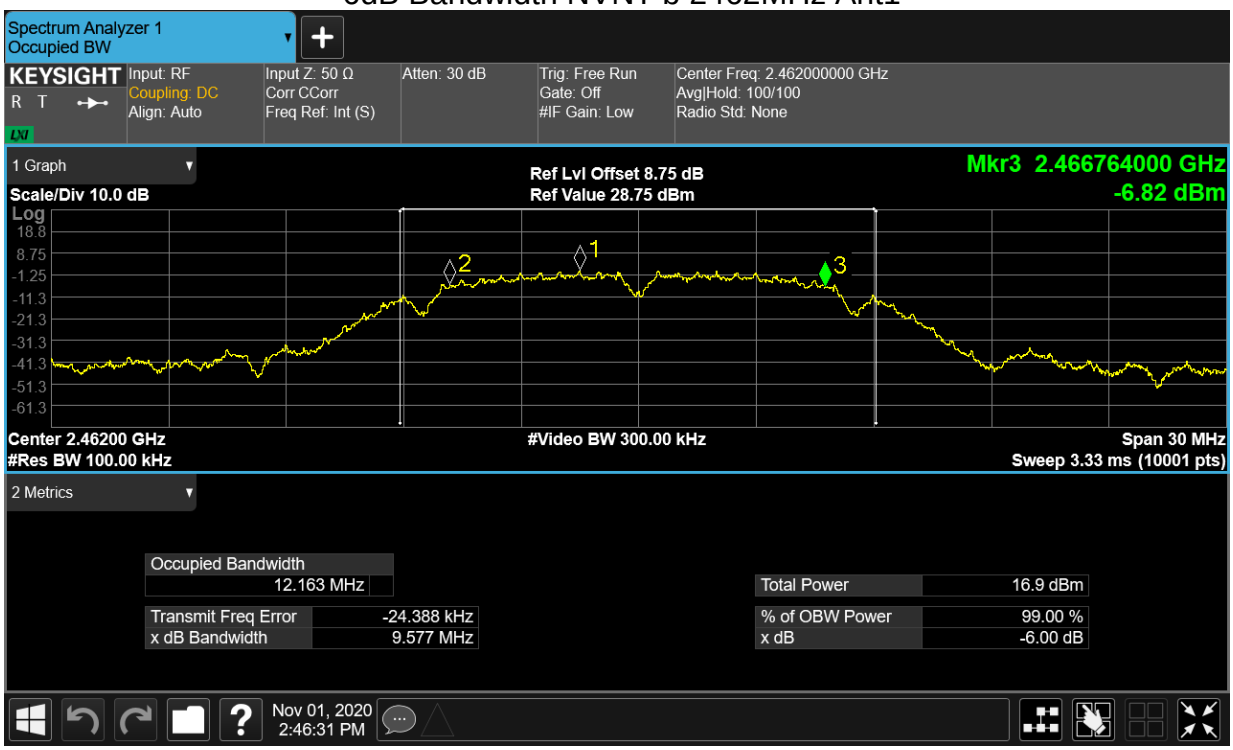
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.021	0.5	Pass
NVNT	b	2437	Ant1	9.751	0.5	Pass
NVNT	b	2462	Ant1	9.577	0.5	Pass
NVNT	g	2412	Ant1	16.356	0.5	Pass
NVNT	g	2437	Ant1	16.347	0.5	Pass
NVNT	g	2462	Ant1	16.382	0.5	Pass
NVNT	n20	2412	Ant1	17.567	0.5	Pass
NVNT	n20	2437	Ant1	17.597	0.5	Pass
NVNT	n20	2462	Ant1	17.593	0.5	Pass

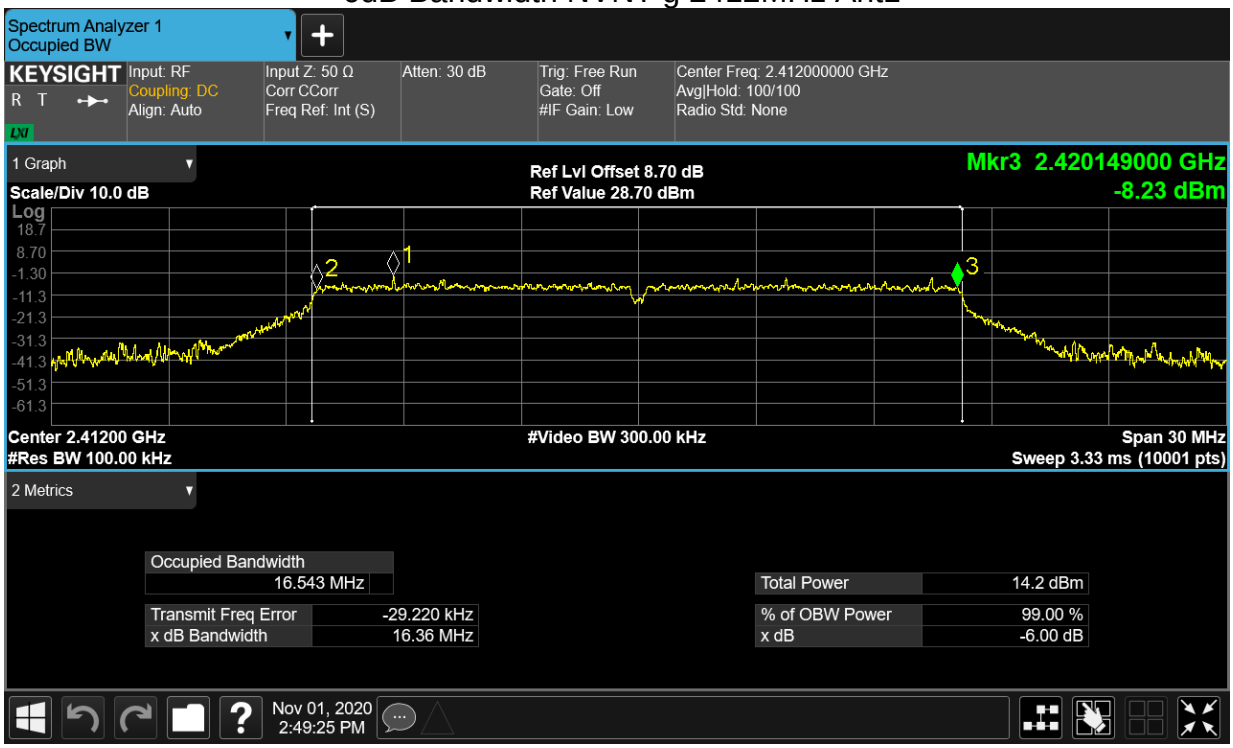
-6dB Bandwidth NVNT b 2412MHz Ant1

-6dB Bandwidth NVNT b 2437MHz Ant1

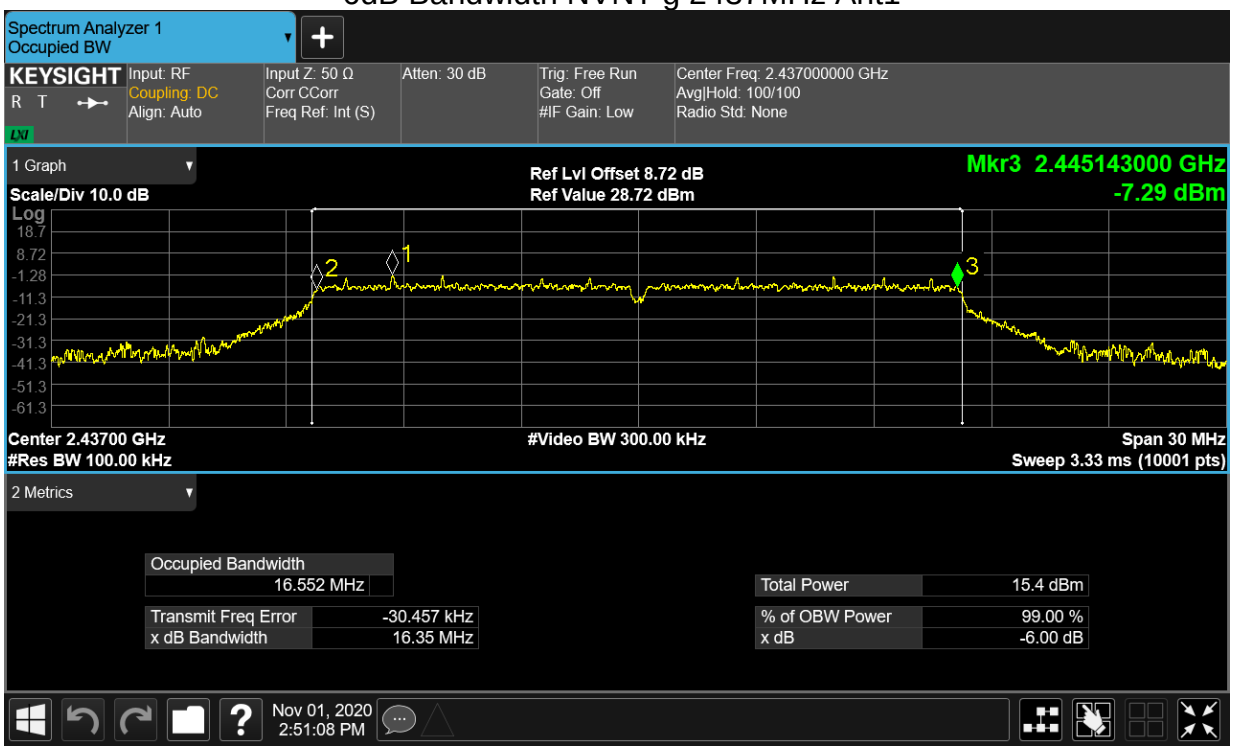
-6dB Bandwidth NVNT b 2462MHz Ant1



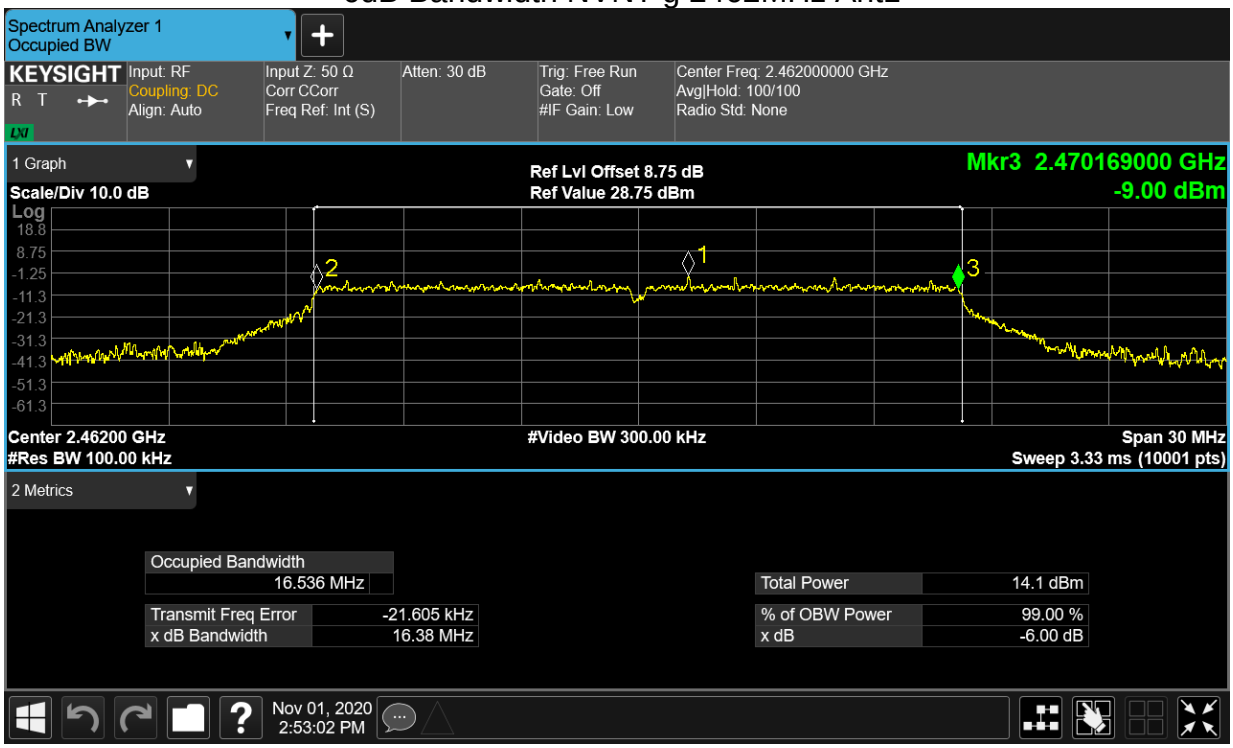
-6dB Bandwidth NVNT g 2412MHz Ant1



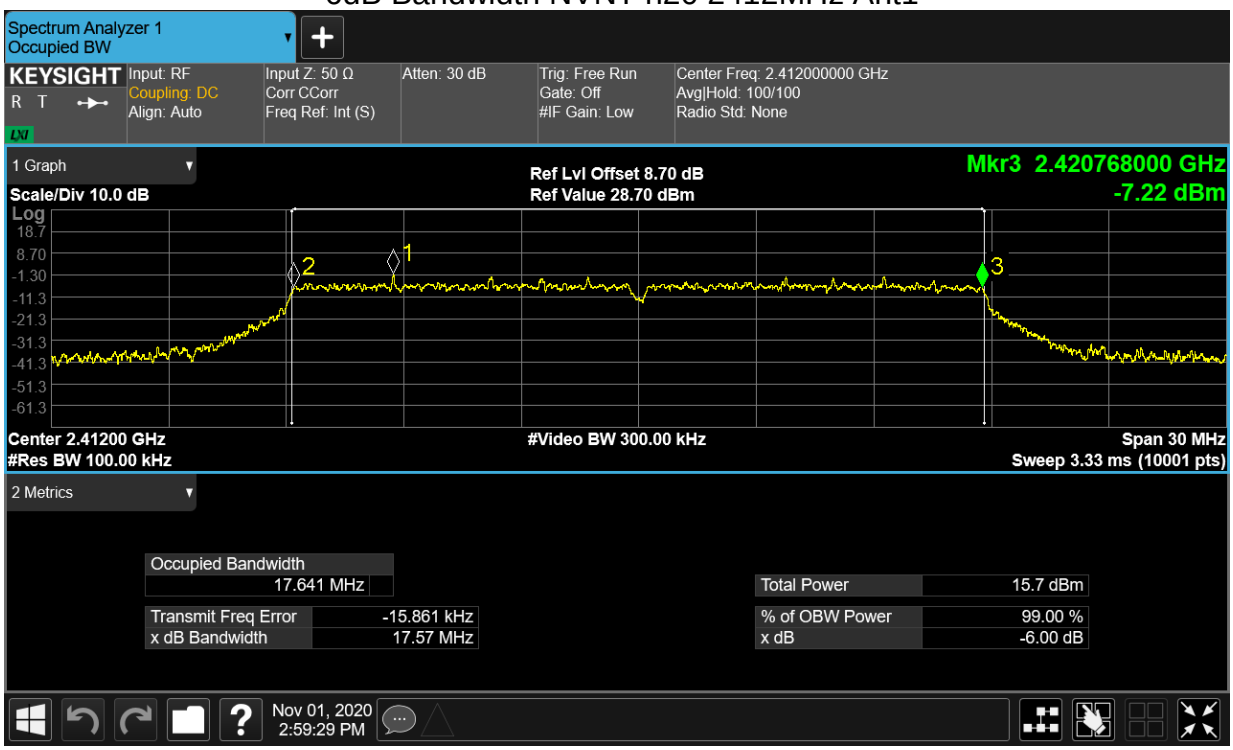
-6dB Bandwidth NVNT g 2437MHz Ant1



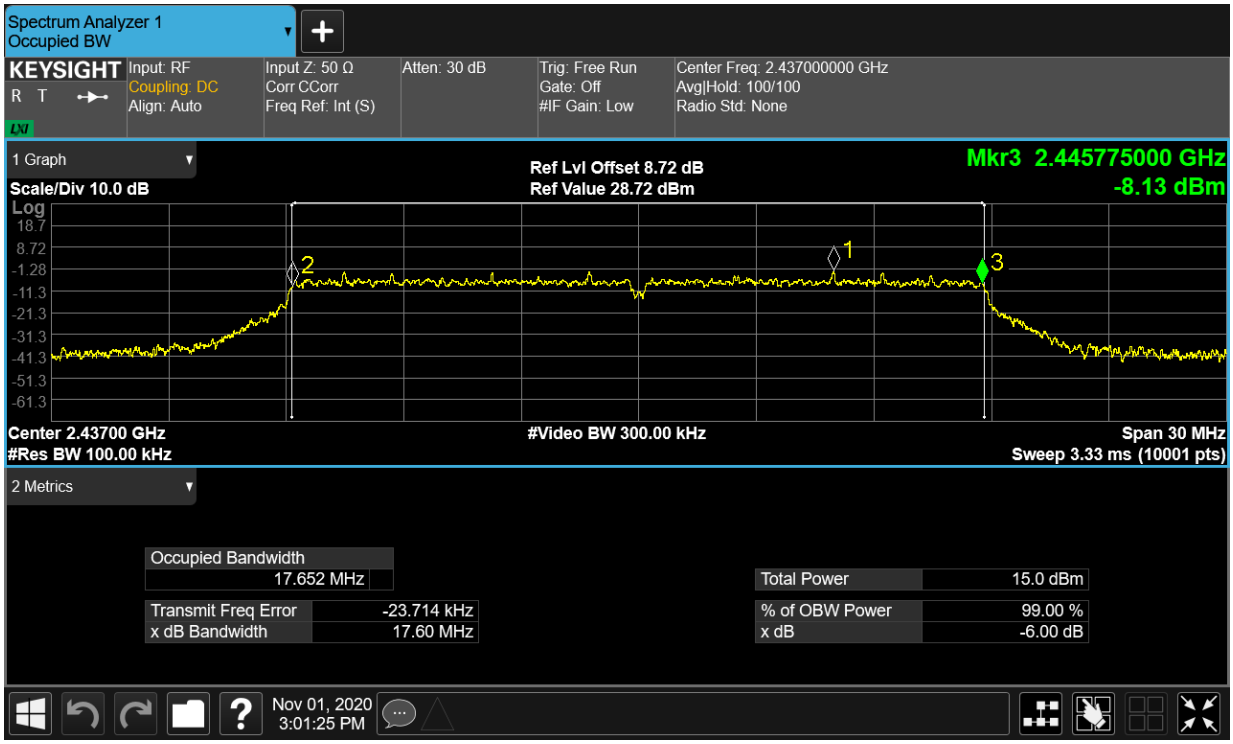
-6dB Bandwidth NVNT g 2462MHz Ant1



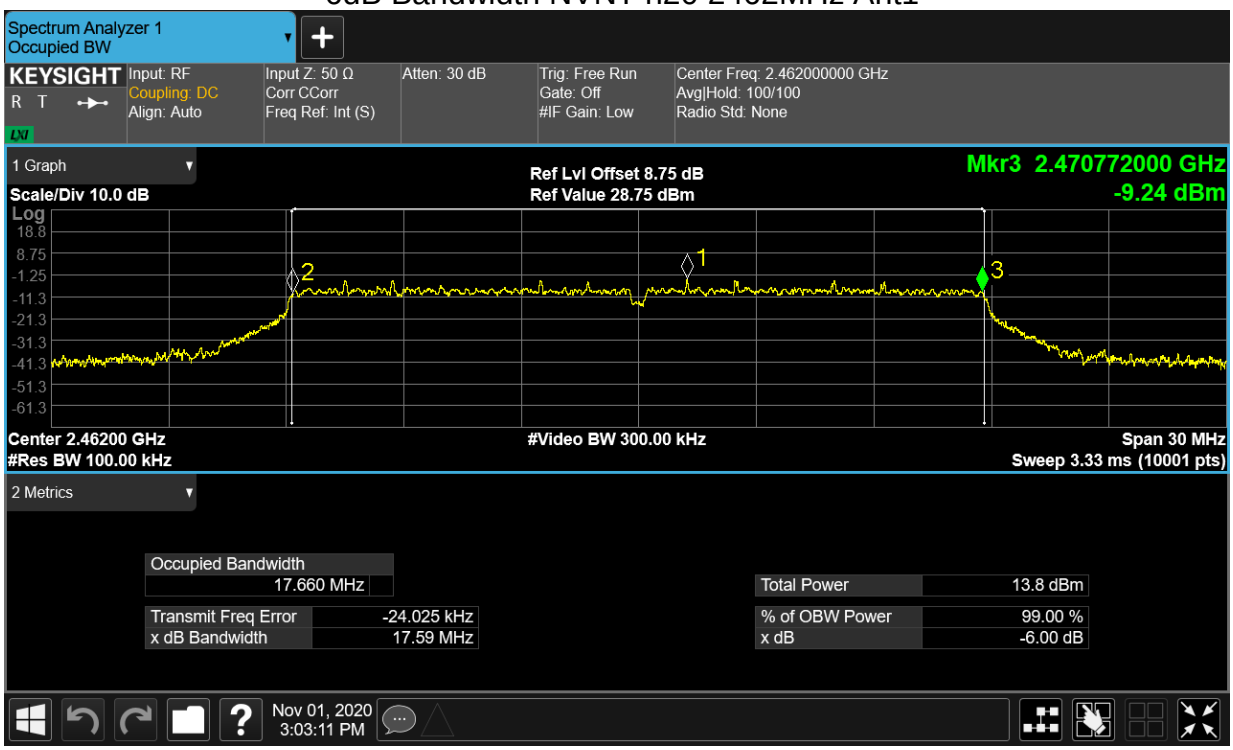
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



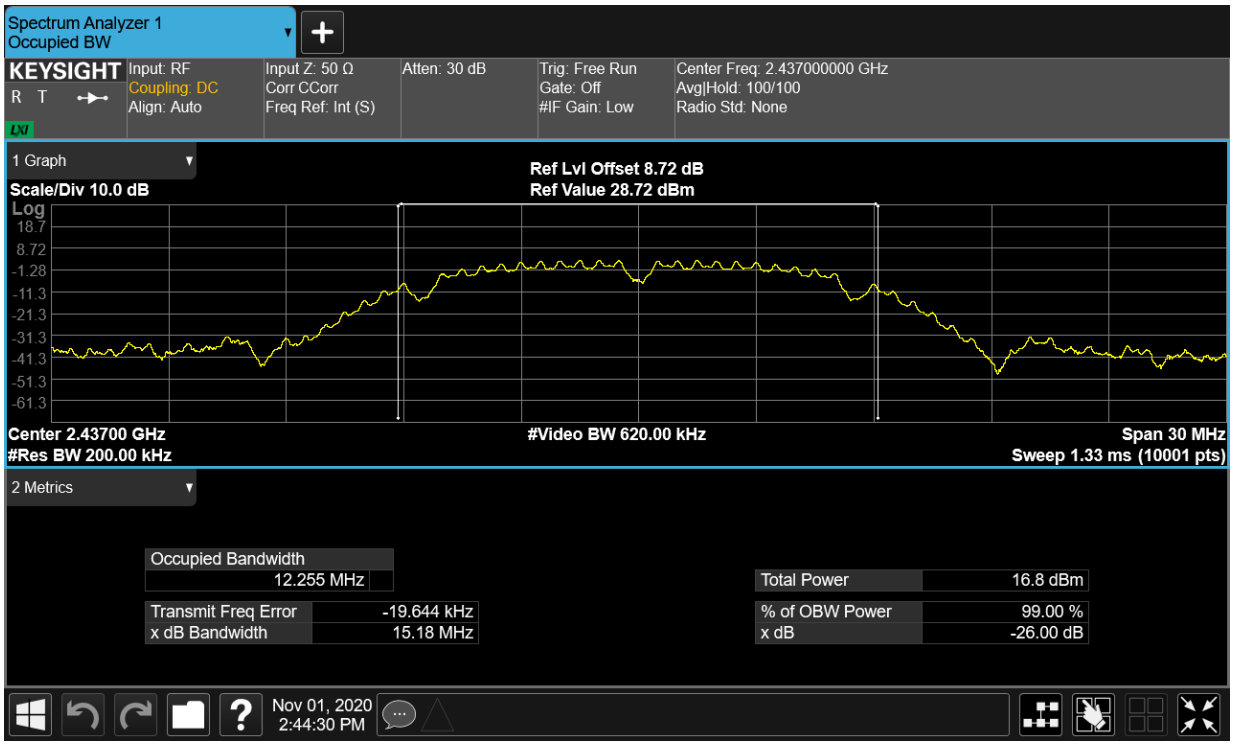
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.43746949
NVNT	b	2437	Ant1	12.25506958
NVNT	b	2462	Ant1	12.13737767
NVNT	g	2412	Ant1	16.7639867
NVNT	g	2437	Ant1	16.76902244
NVNT	g	2462	Ant1	16.73869237

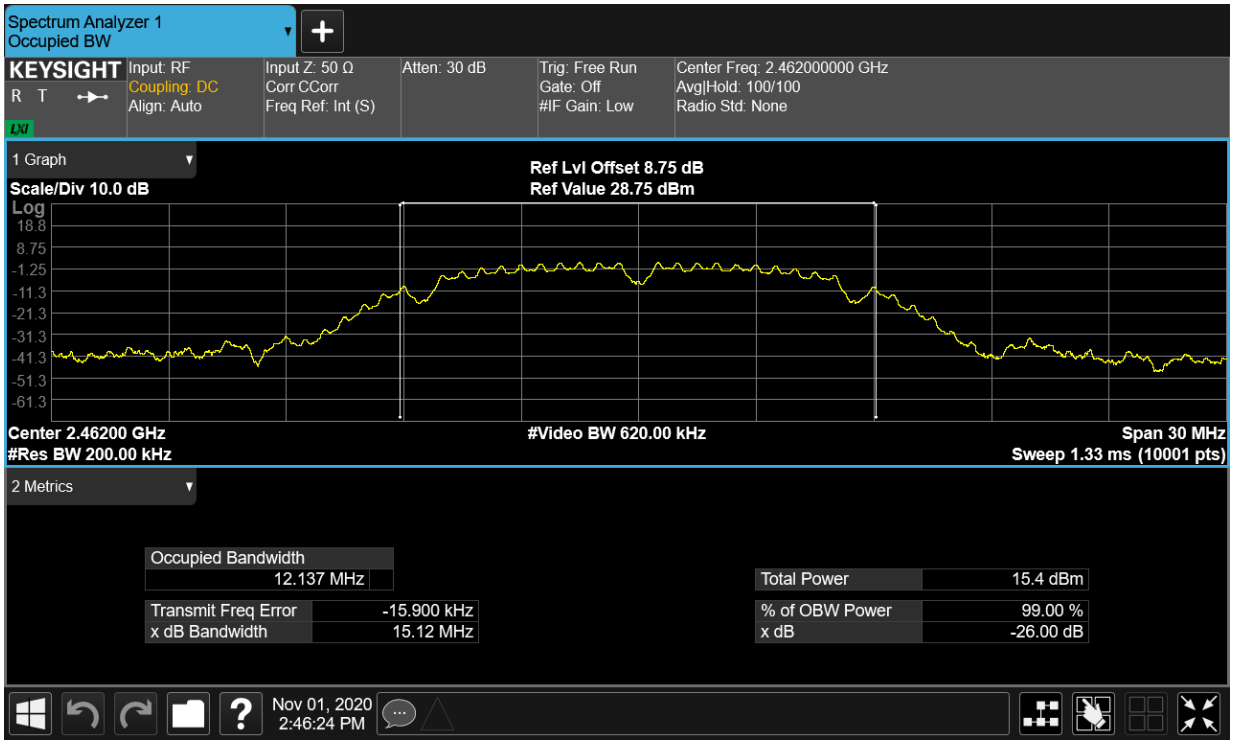
NVNT	n20	2412	Ant1	17.73155184
NVNT	n20	2437	Ant1	17.7491735
NVNT	n20	2462	Ant1	17.75592543

OBW NVNT b 2412MHz Ant1

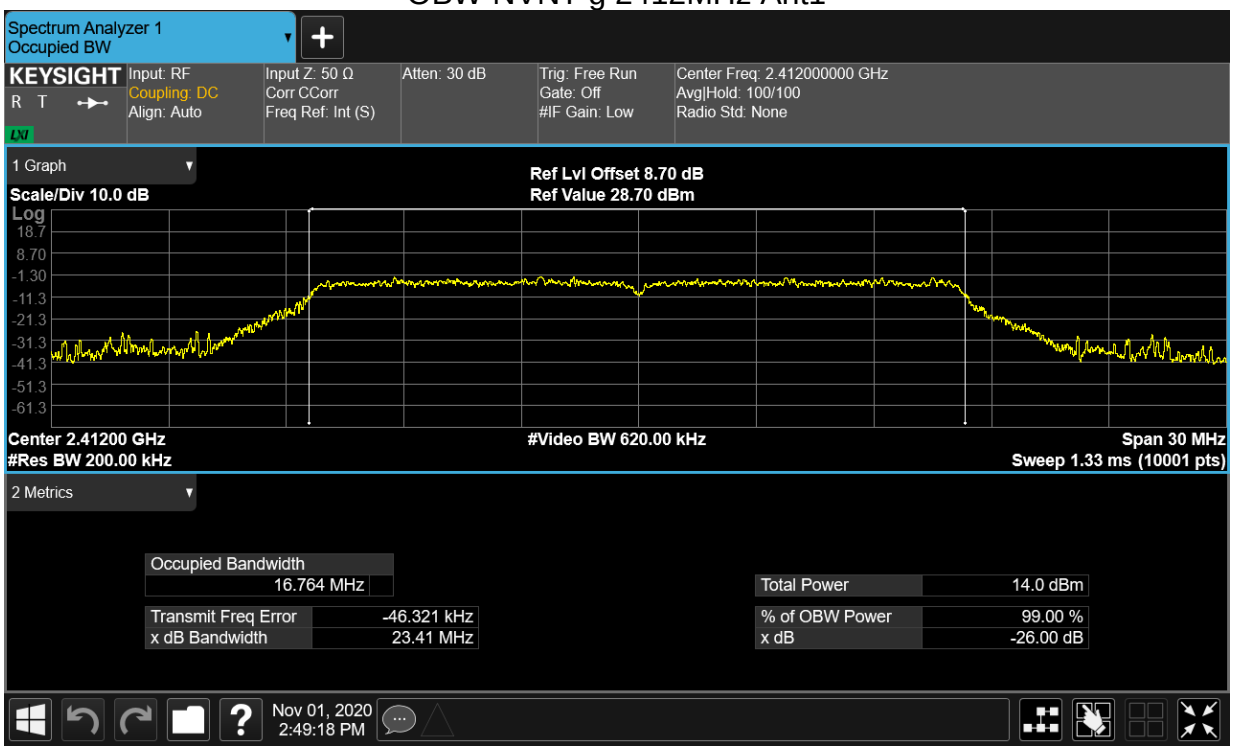
OBW NVNT b 2437MHz Ant1



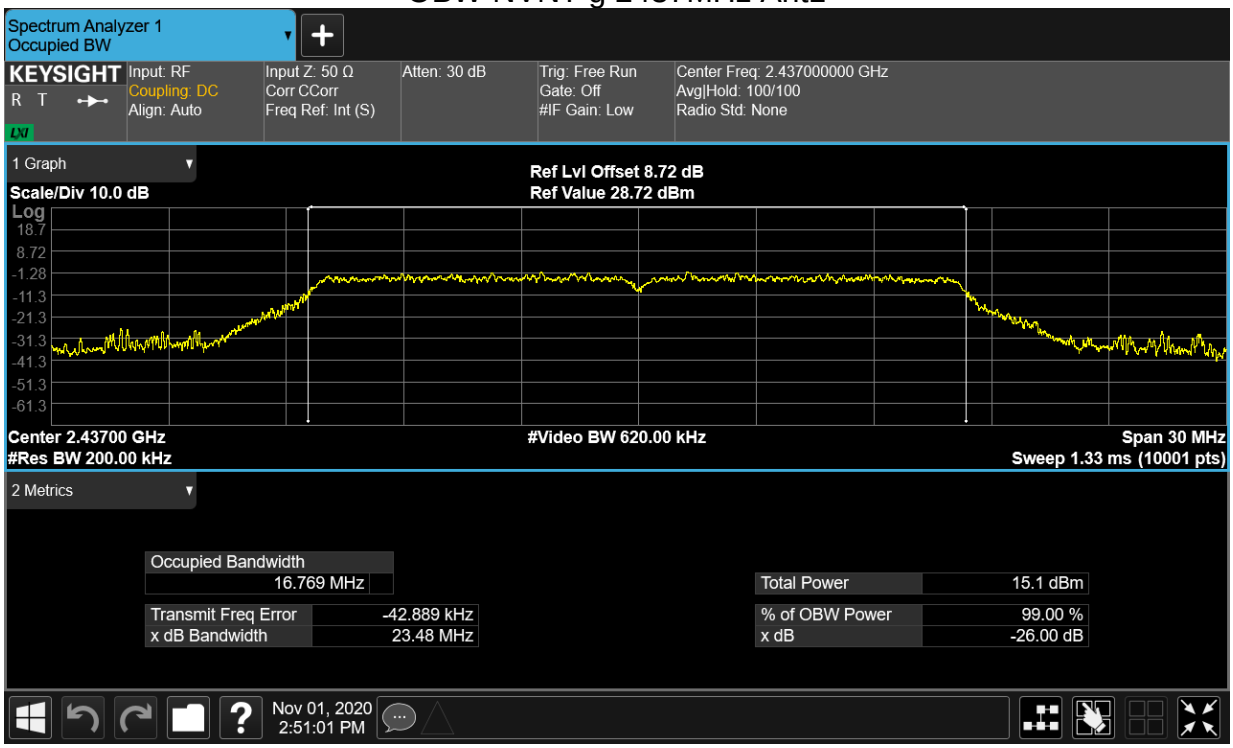
OBW NVNT b 2462MHz Ant1



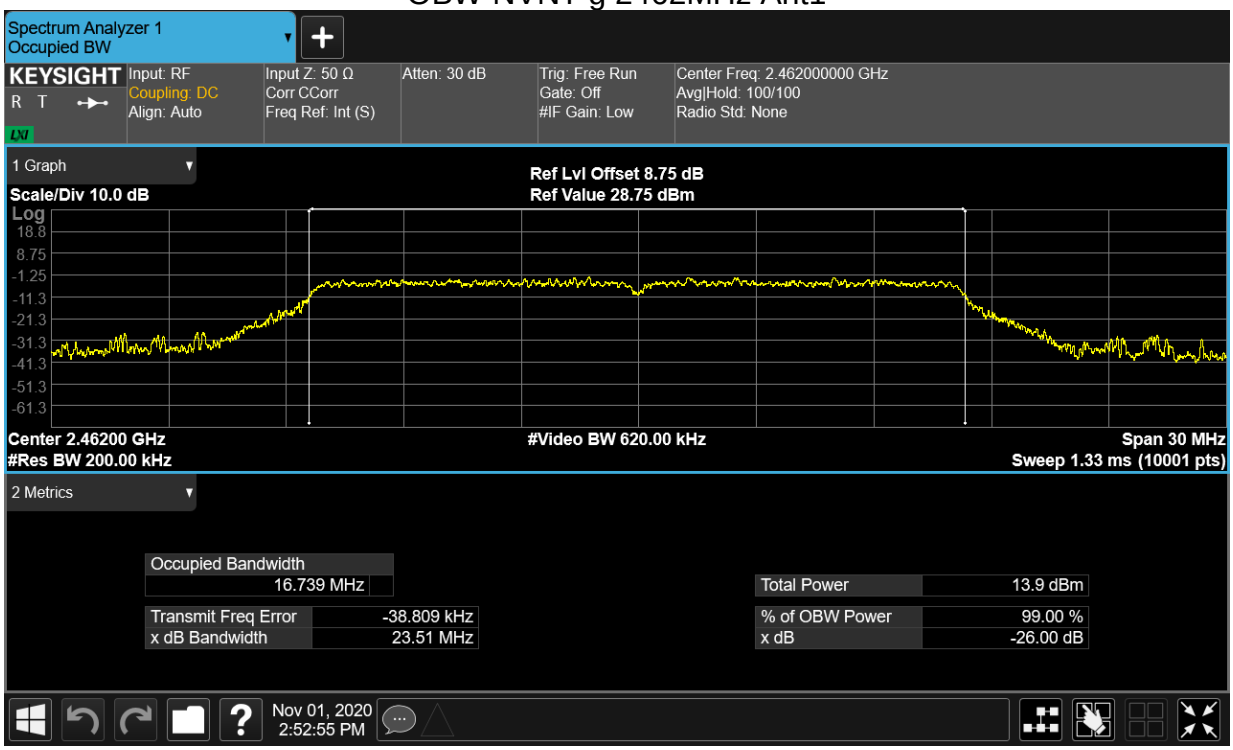
OBW NVNT g 2412MHz Ant1



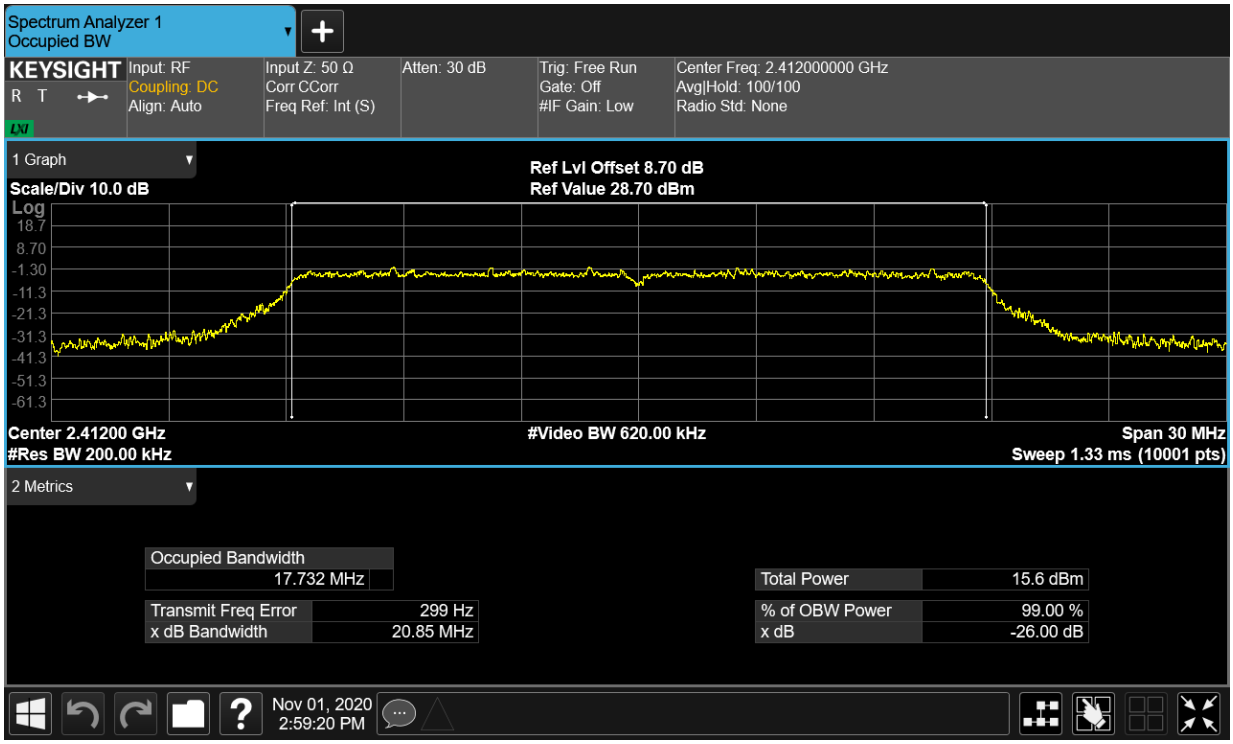
OBW NVNT g 2437MHz Ant1



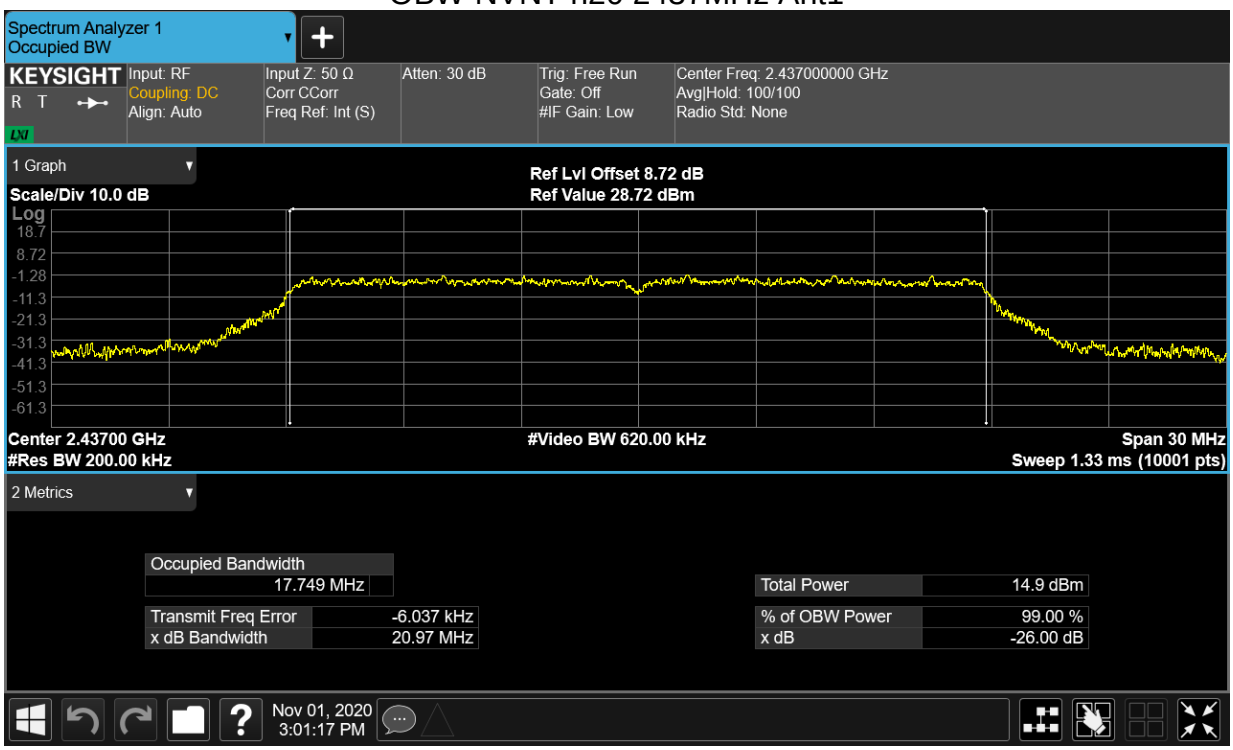
OBW NVNT g 2462MHz Ant1



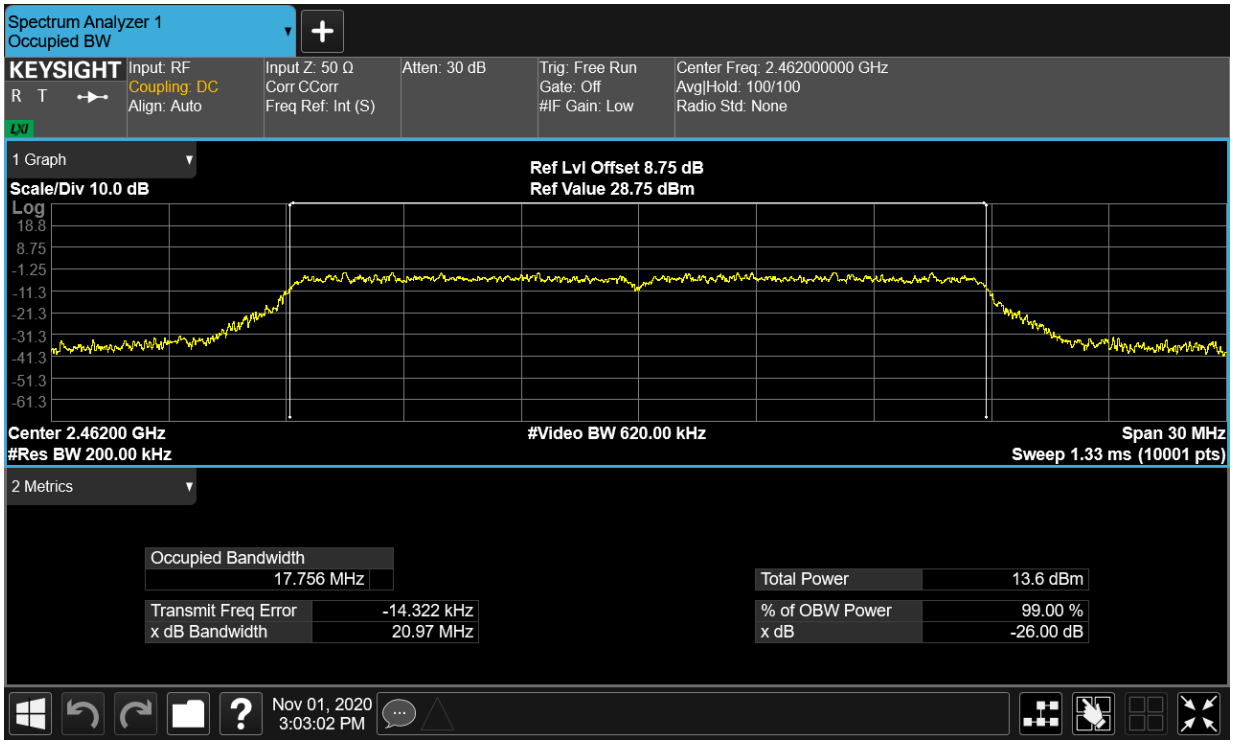
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



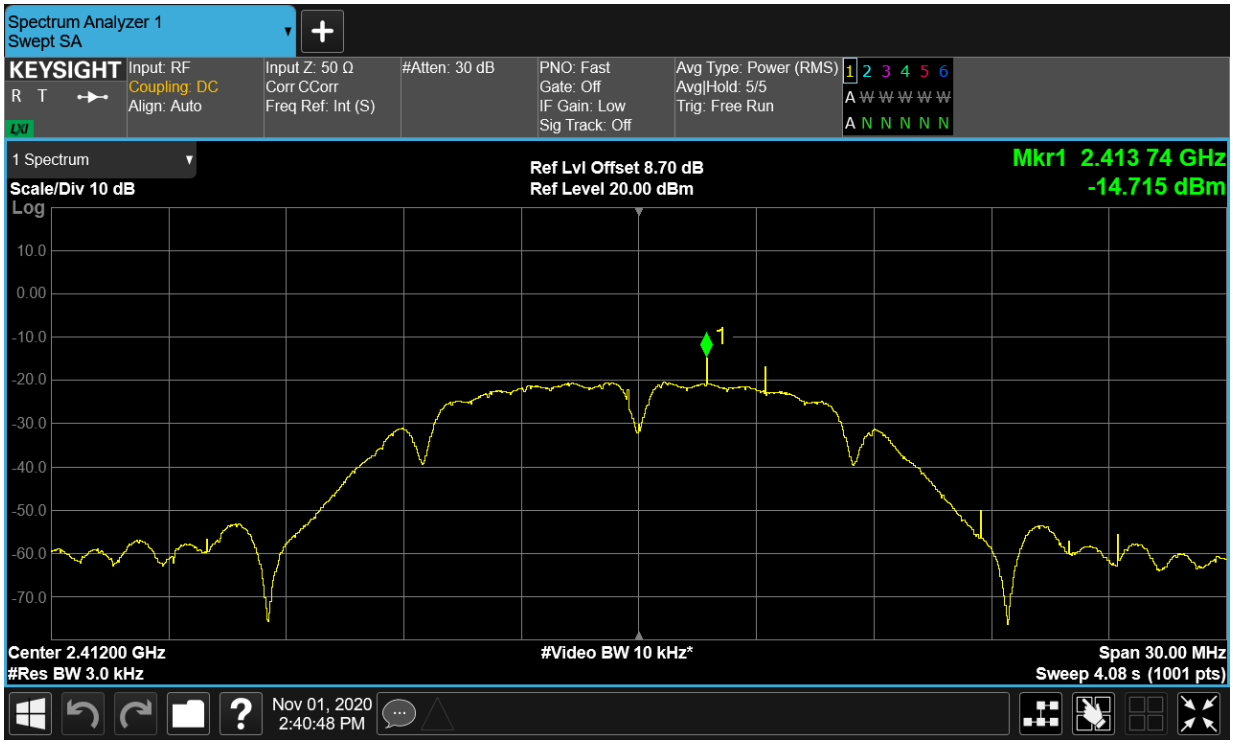
OBW NVNT n20 2462MHz Ant1



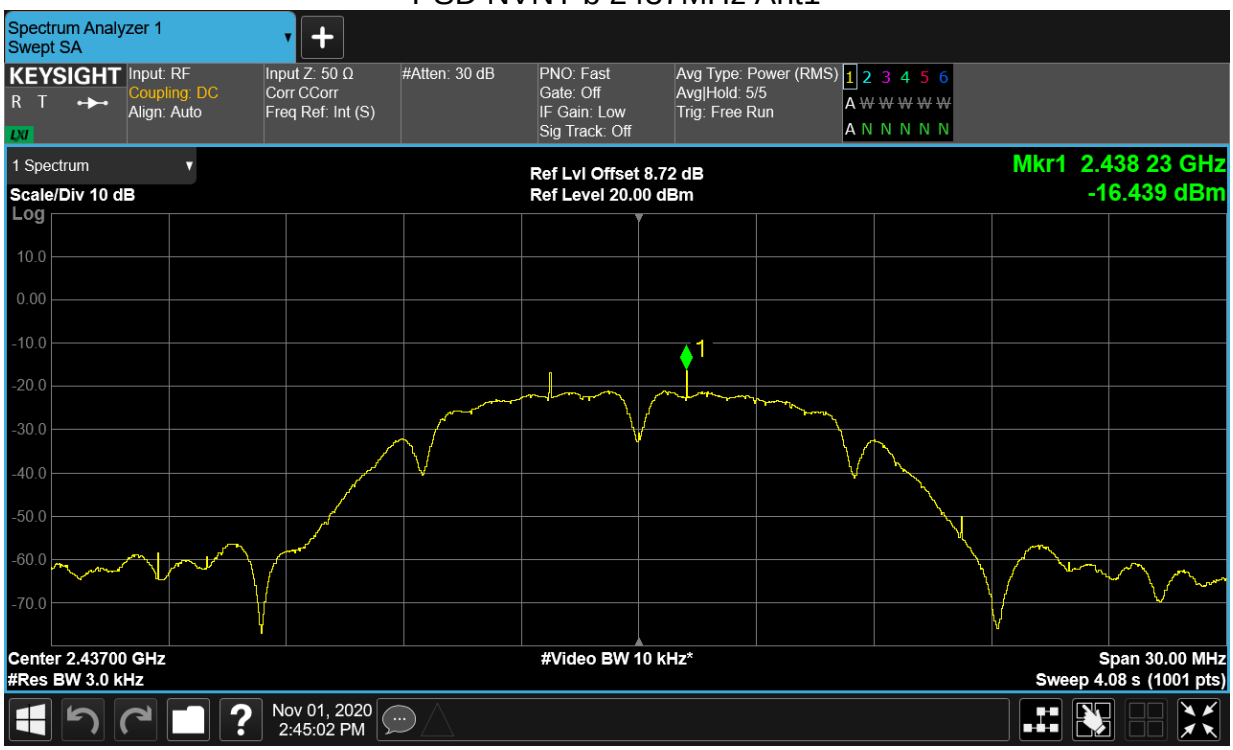
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-14.715	8	Pass
NVNT	b	2437	Ant1	-16.439	8	Pass
NVNT	b	2462	Ant1	-17.018	8	Pass
NVNT	g	2412	Ant1	-26.598	8	Pass
NVNT	g	2437	Ant1	-25.142	8	Pass
NVNT	g	2462	Ant1	-26.536	8	Pass
NVNT	n20	2412	Ant1	-25.176	8	Pass
NVNT	n20	2437	Ant1	-25.944	8	Pass
NVNT	n20	2462	Ant1	-26.965	8	Pass

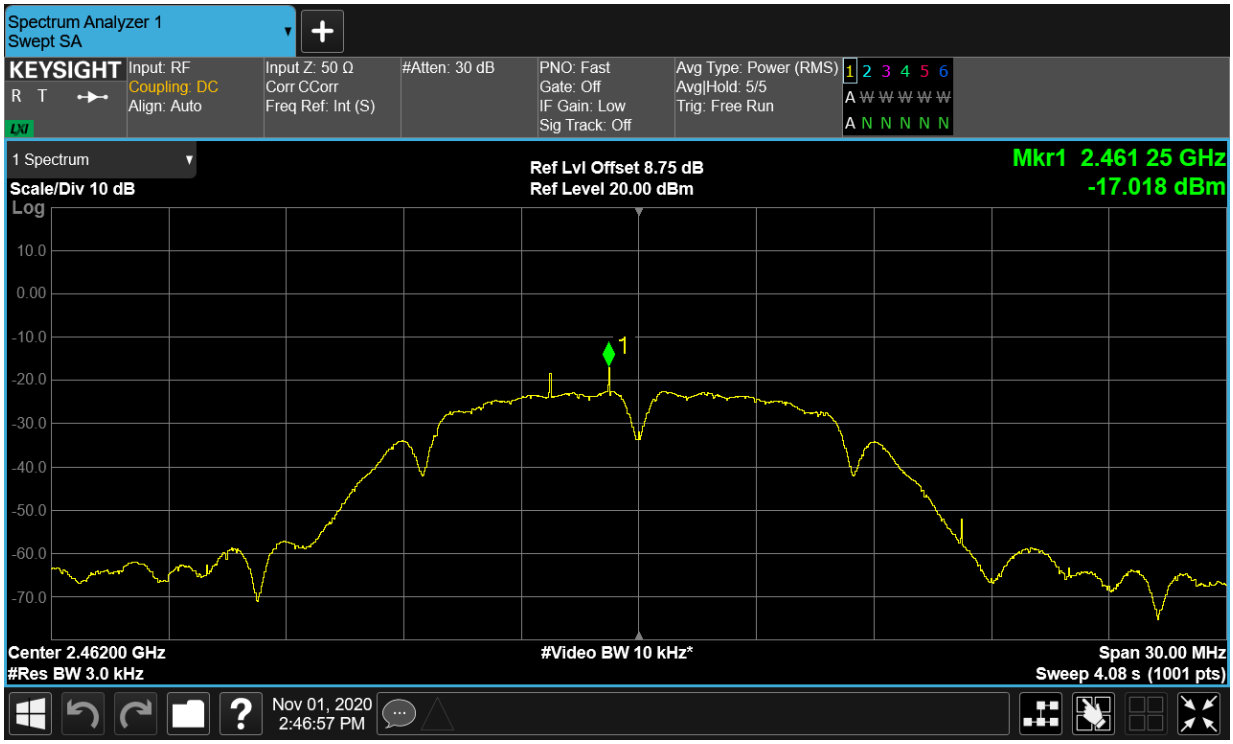
PSD NVNT b 2412MHz Ant1



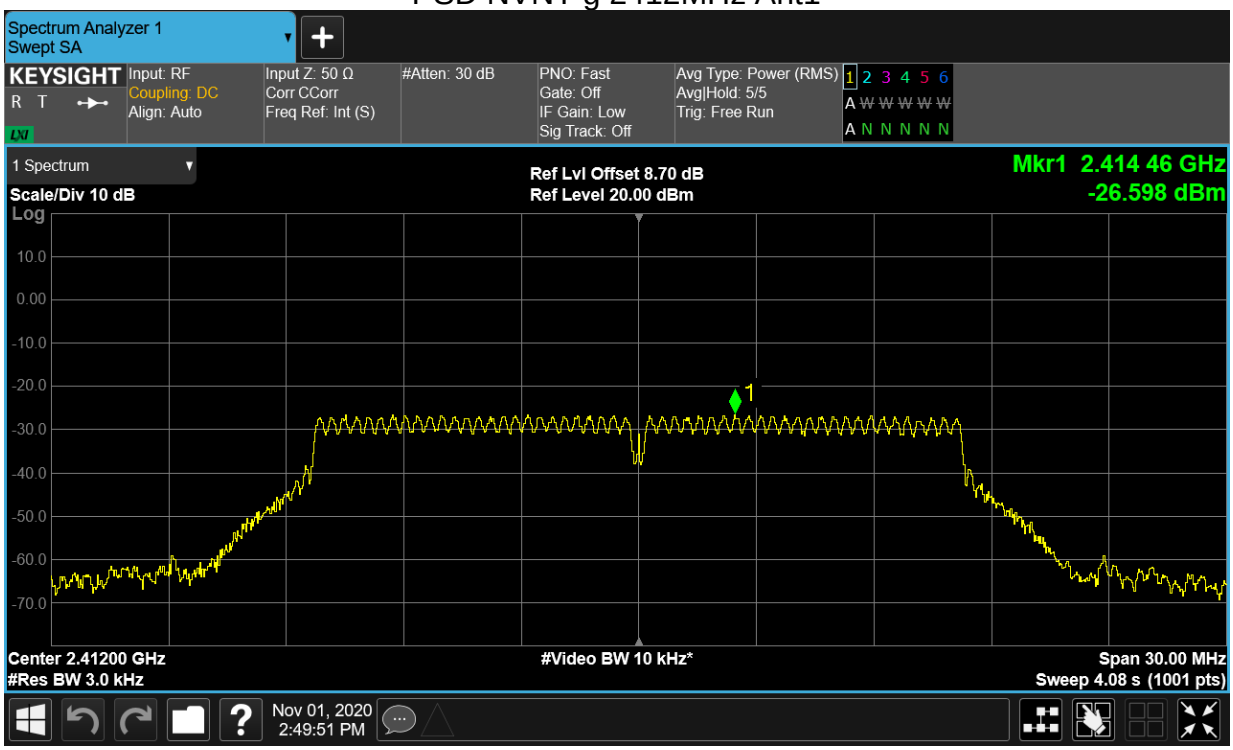
PSD NVNT b 2437MHz Ant1



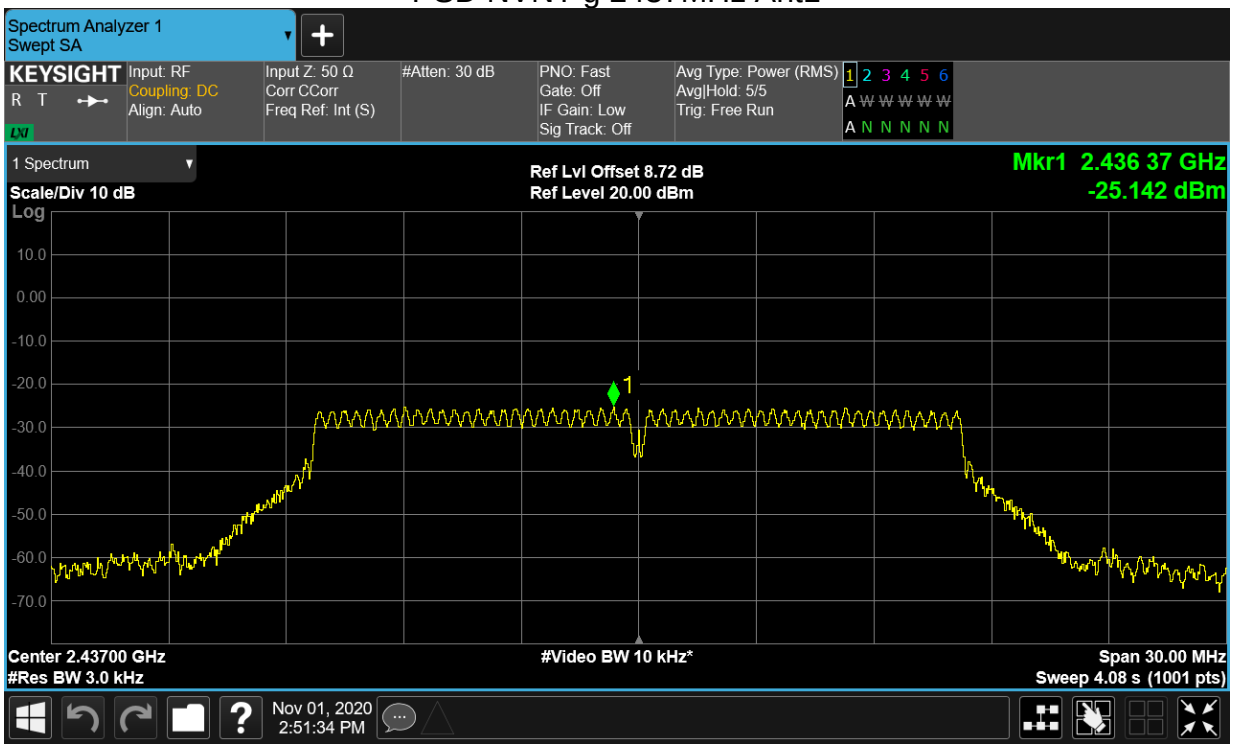
PSD NVNT b 2462MHz Ant1



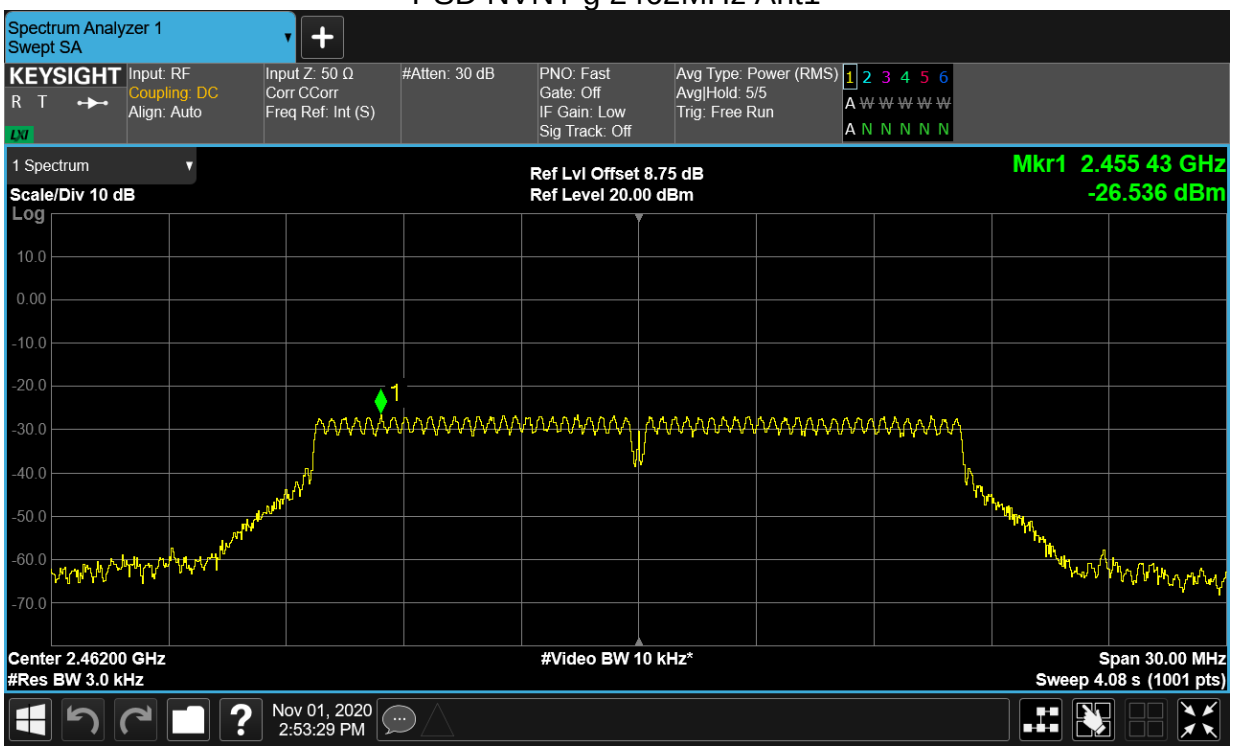
PSD NVNT g 2412MHz Ant1



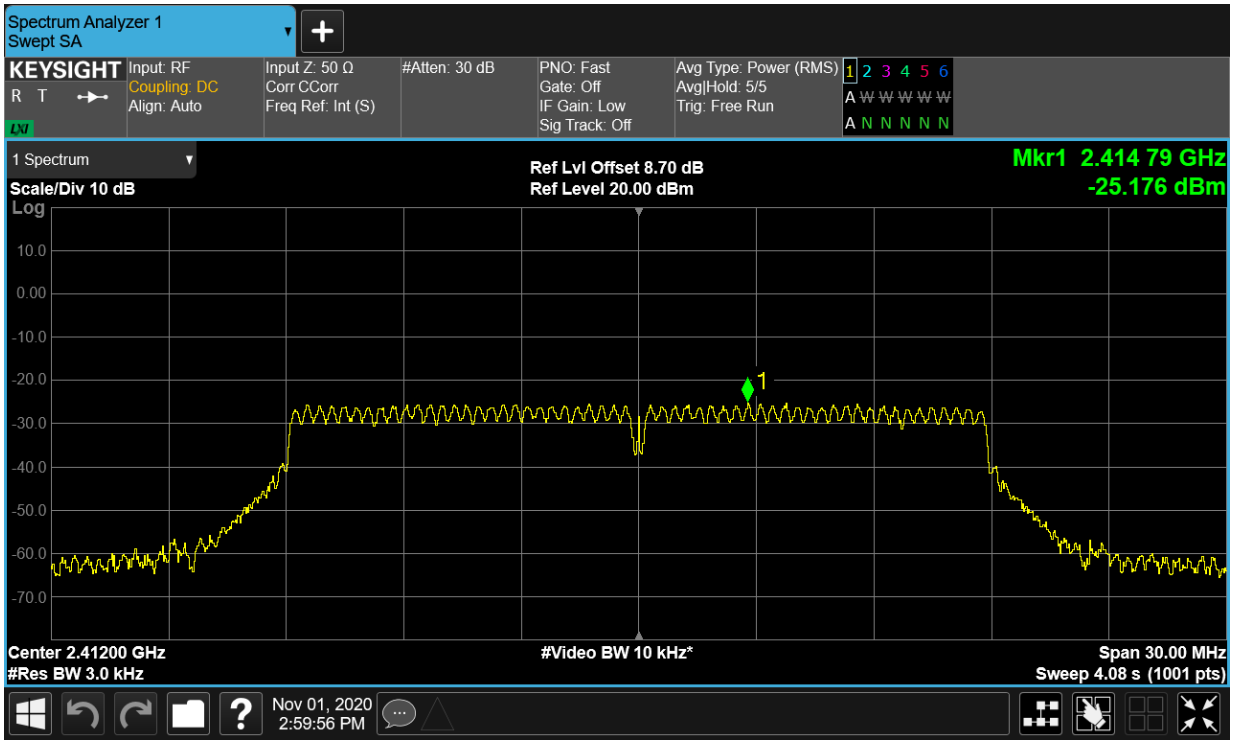
PSD NVNT g 2437MHz Ant1



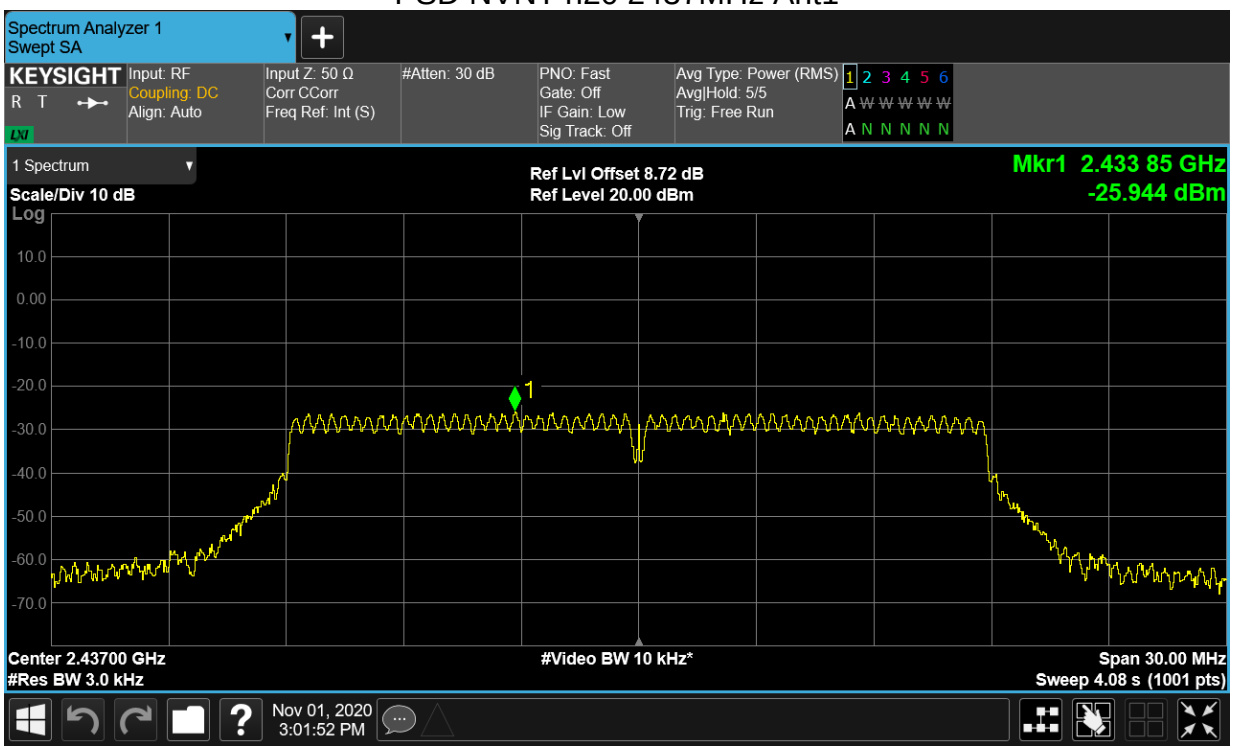
PSD NVNT g 2462MHz Ant1



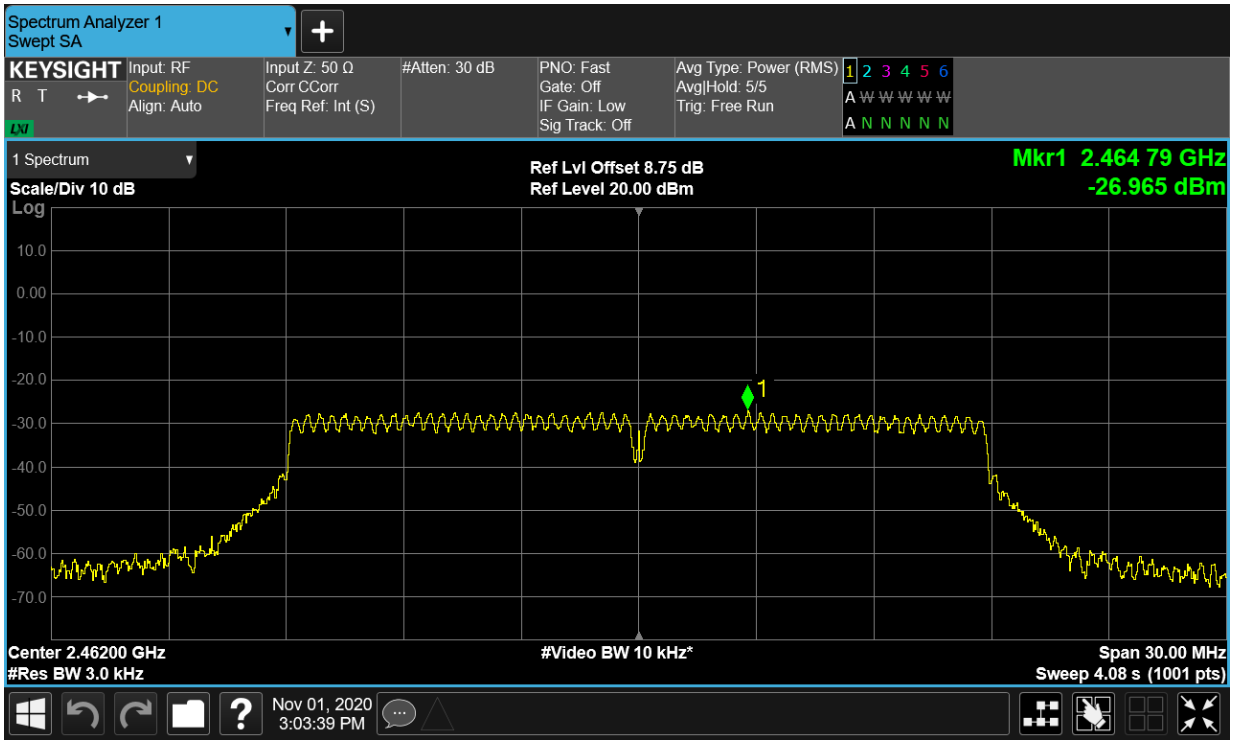
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



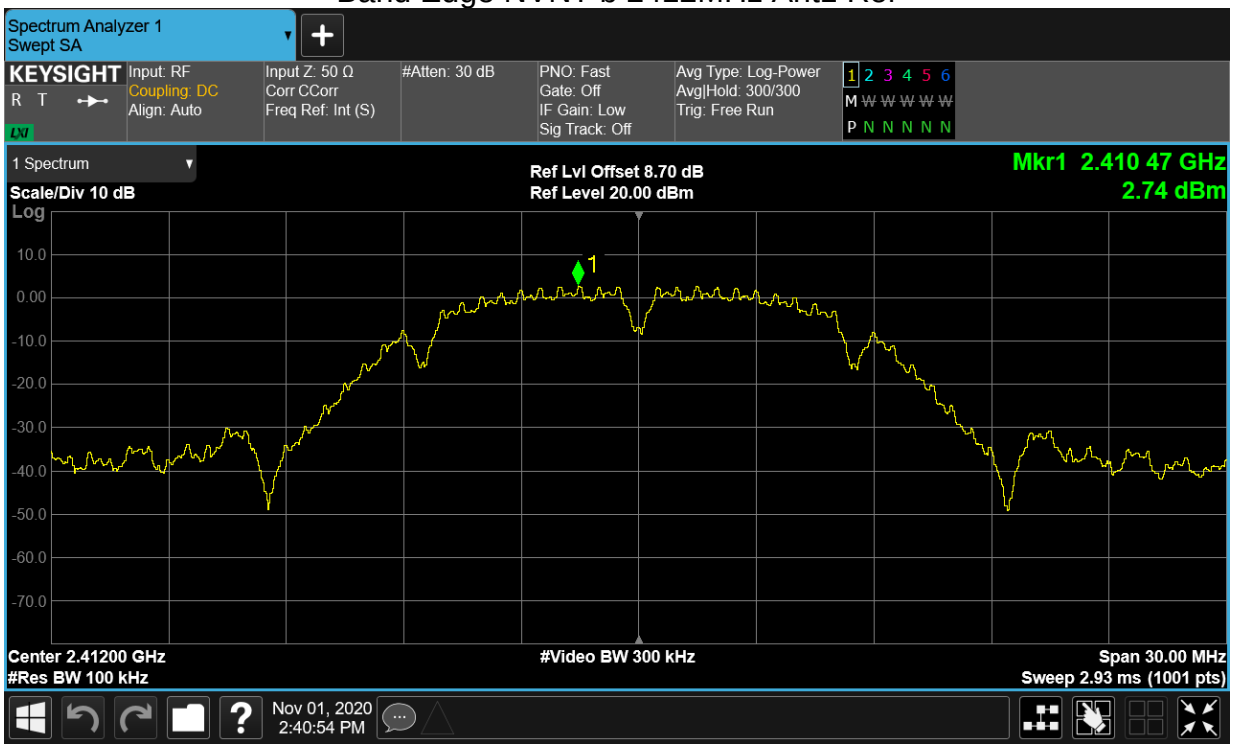
PSD NVNT n20 2462MHz Ant1



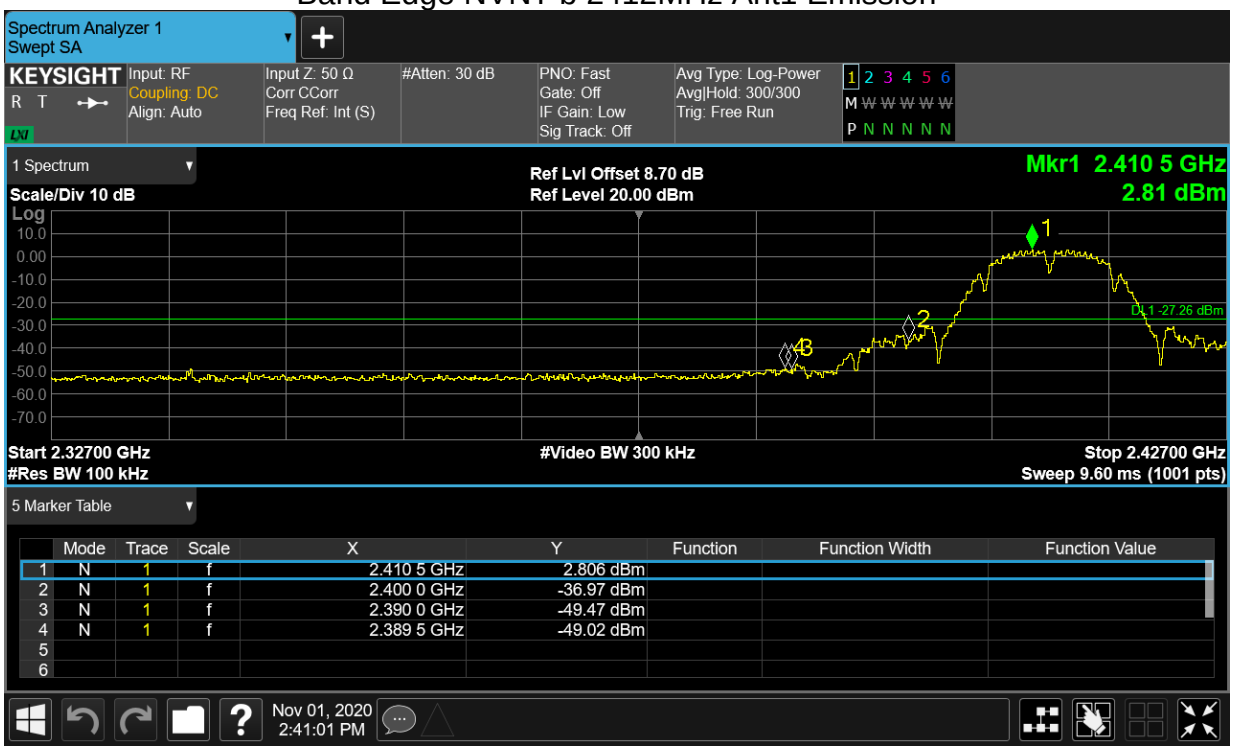
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.76	-30	Pass
NVNT	b	2462	Ant1	-50.38	-30	Pass
NVNT	g	2412	Ant1	-42.93	-30	Pass
NVNT	g	2462	Ant1	-42.61	-30	Pass
NVNT	n20	2412	Ant1	-40.72	-30	Pass
NVNT	n20	2462	Ant1	-41.98	-30	Pass

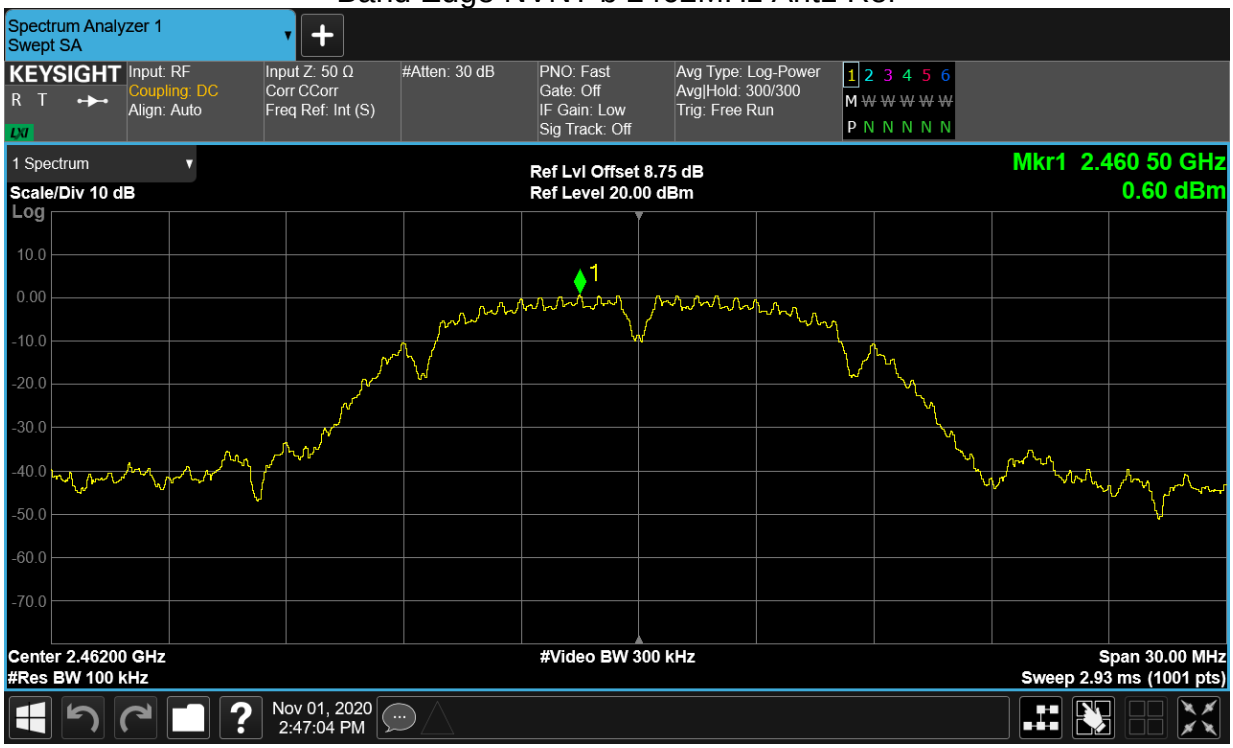
Band Edge NVNT b 2412MHz Ant1 Ref



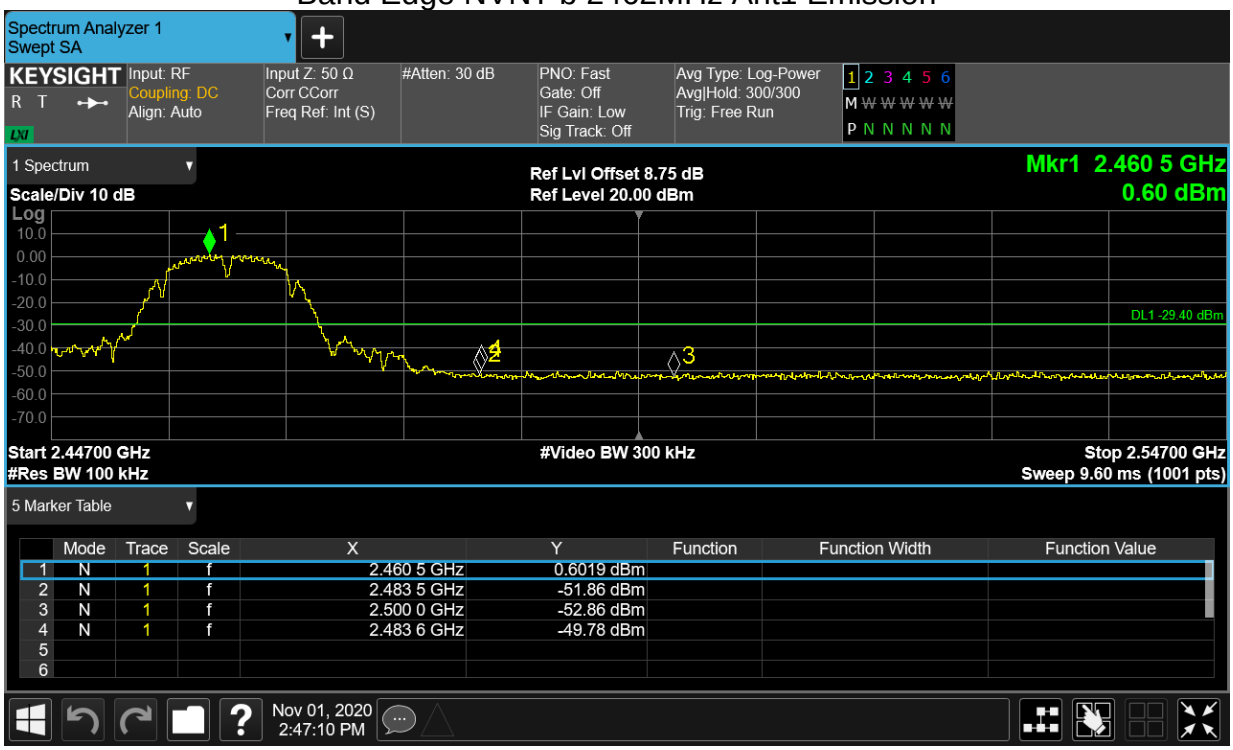
Band Edge NVNT b 2412MHz Ant1 Emission



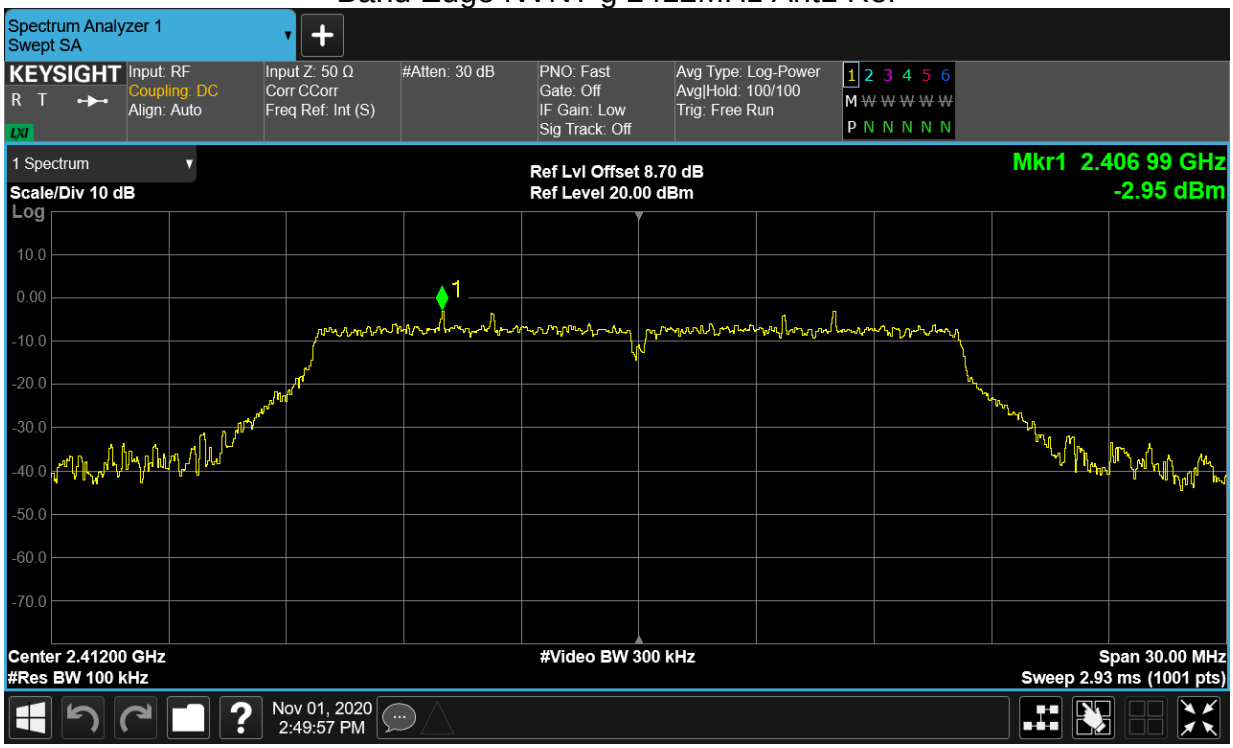
Band Edge NVNT b 2462MHz Ant1 Ref



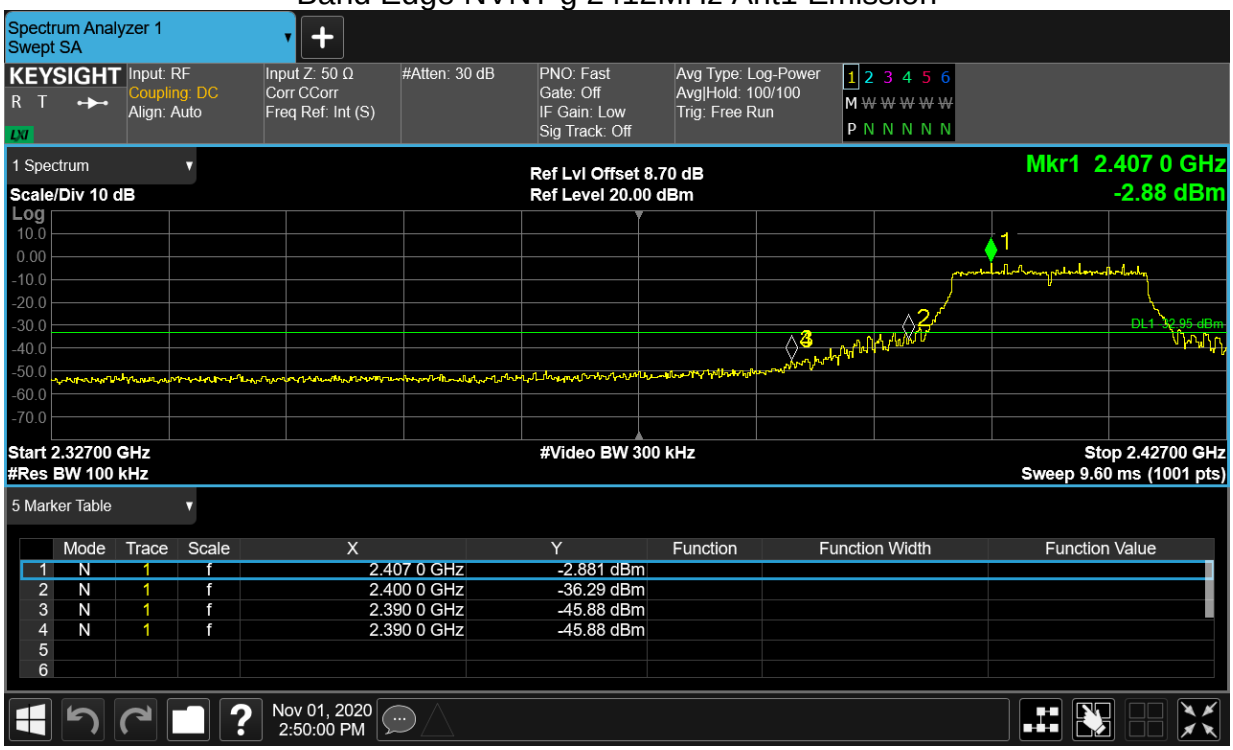
Band Edge NVNT b 2462MHz Ant1 Emission



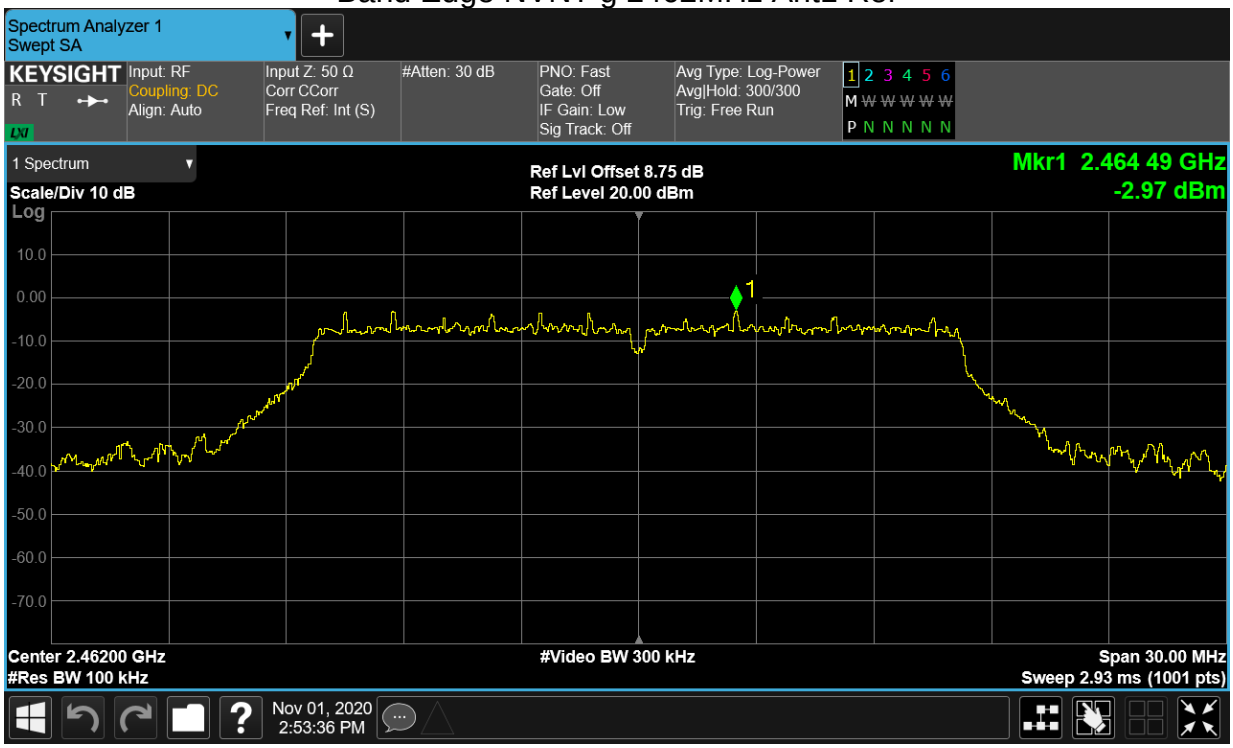
Band Edge NVNT g 2412MHz Ant1 Ref



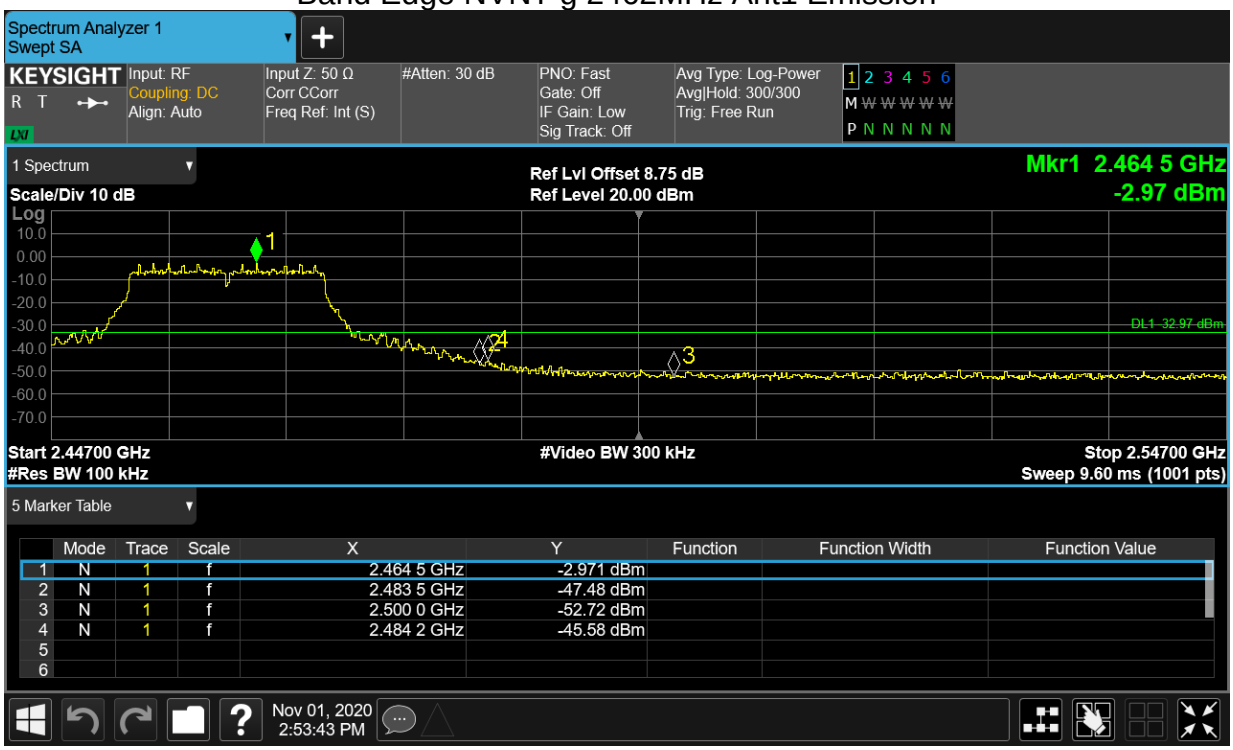
Band Edge NVNT g 2412MHz Ant1 Emission



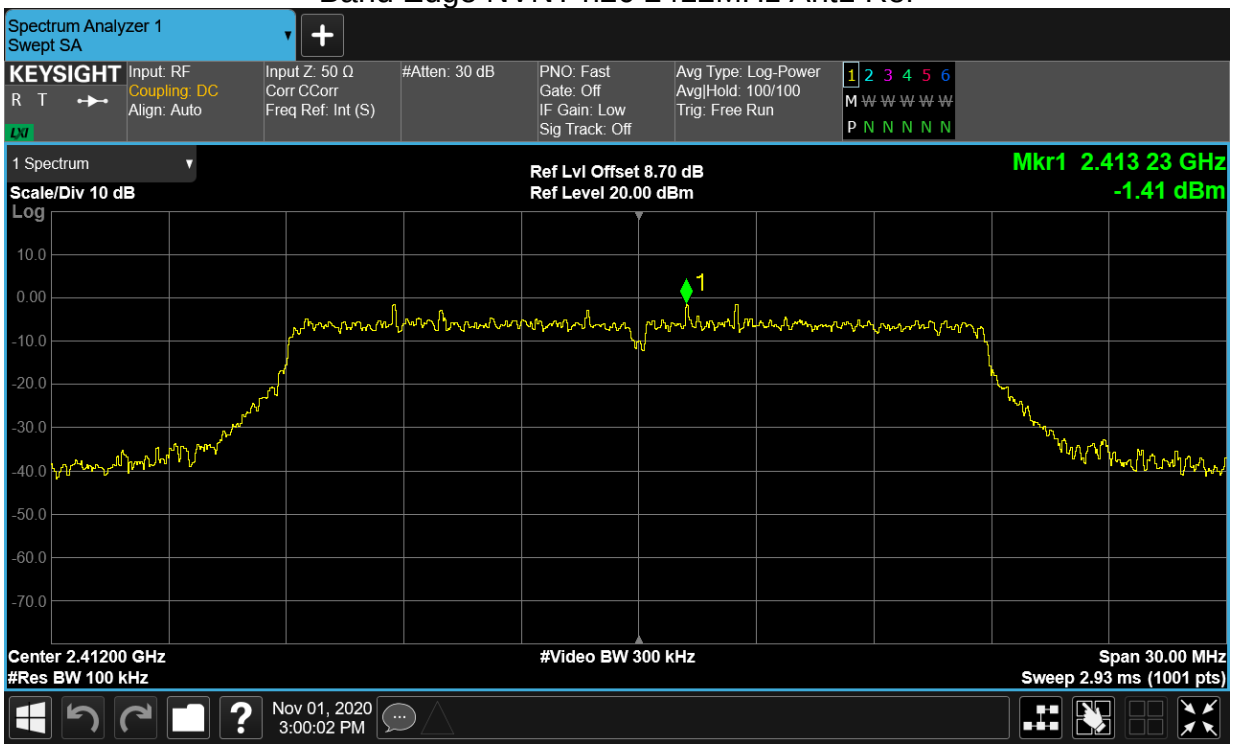
Band Edge NVNT g 2462MHz Ant1 Ref



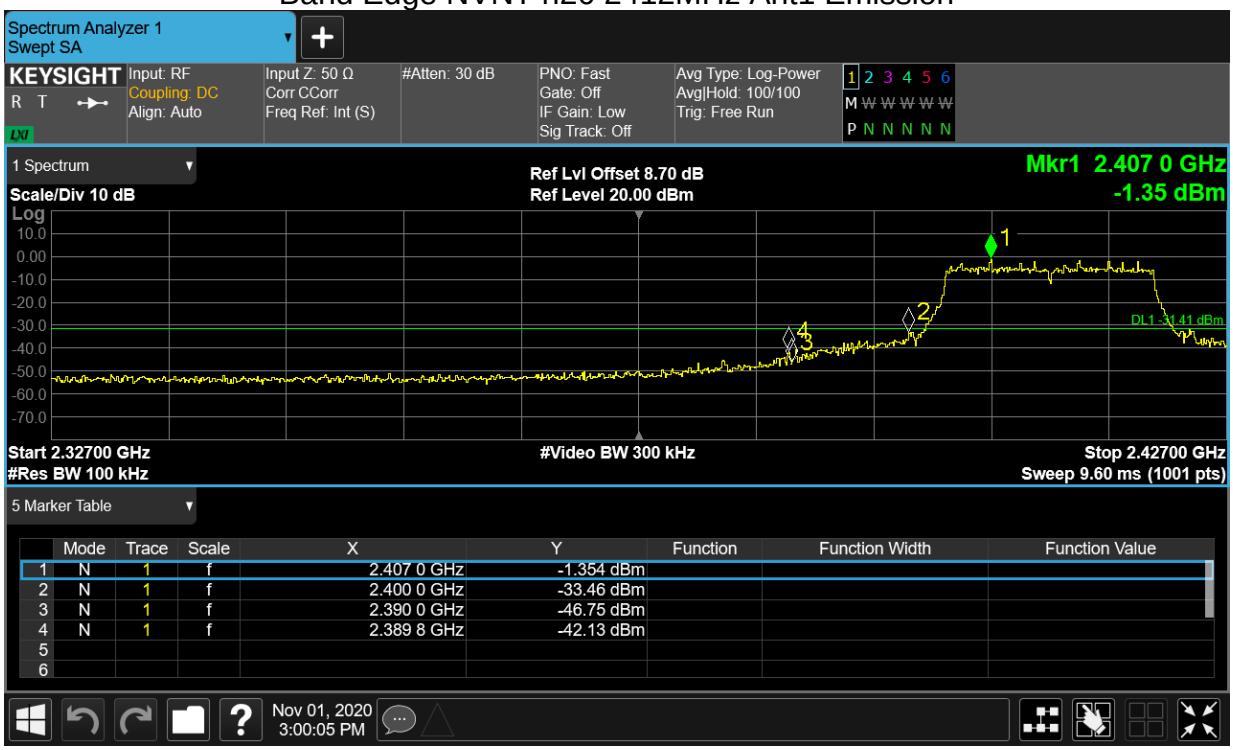
Band Edge NVNT g 2462MHz Ant1 Emission



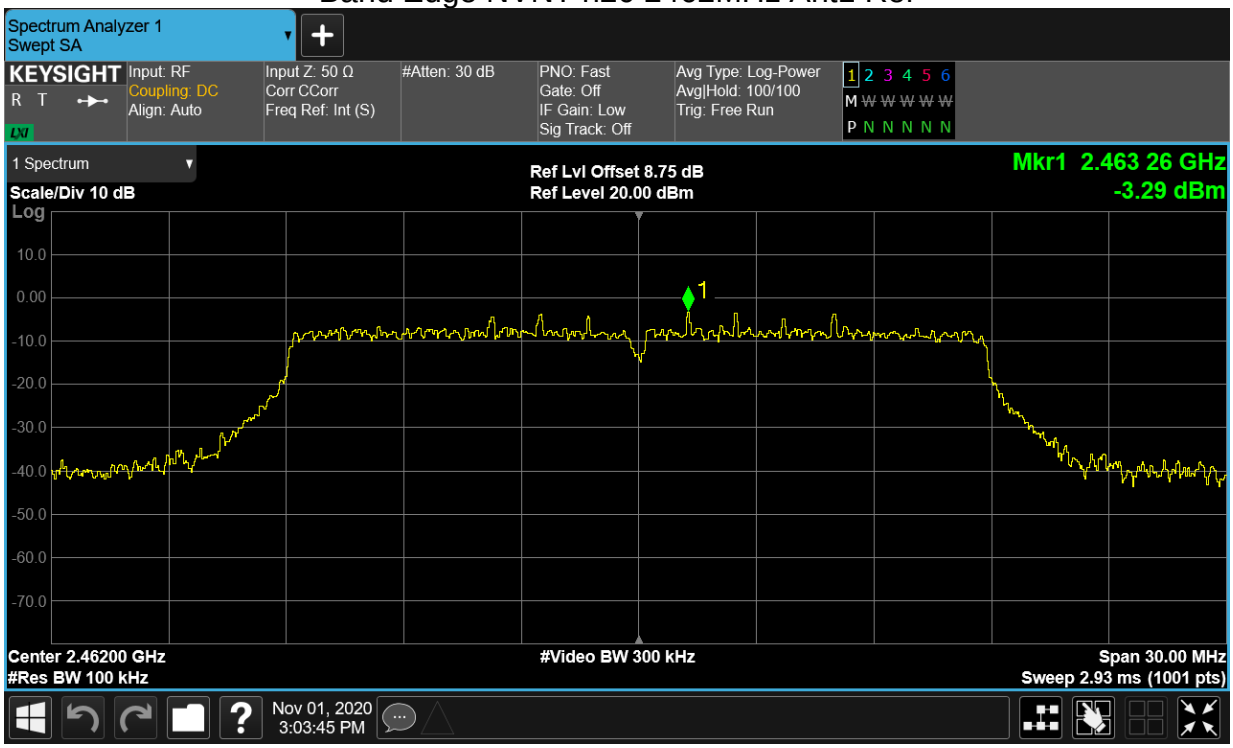
Band Edge NVNT n20 2412MHz Ant1 Ref



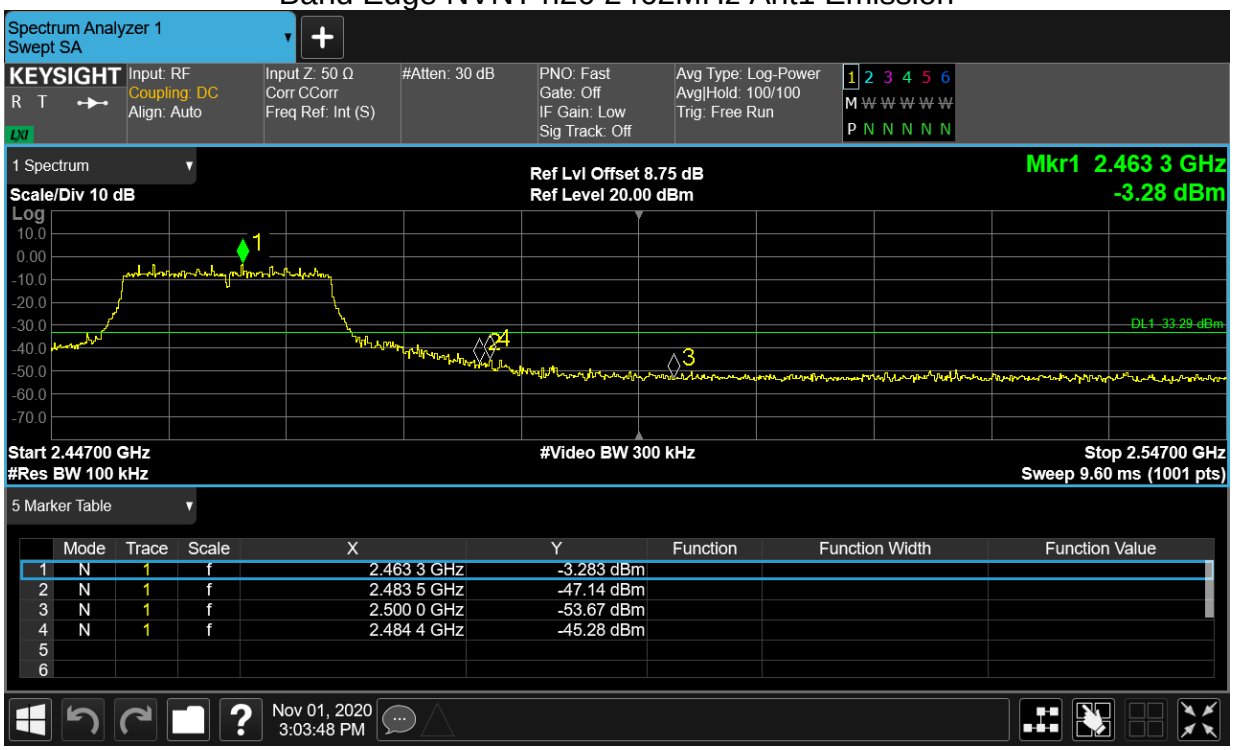
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission

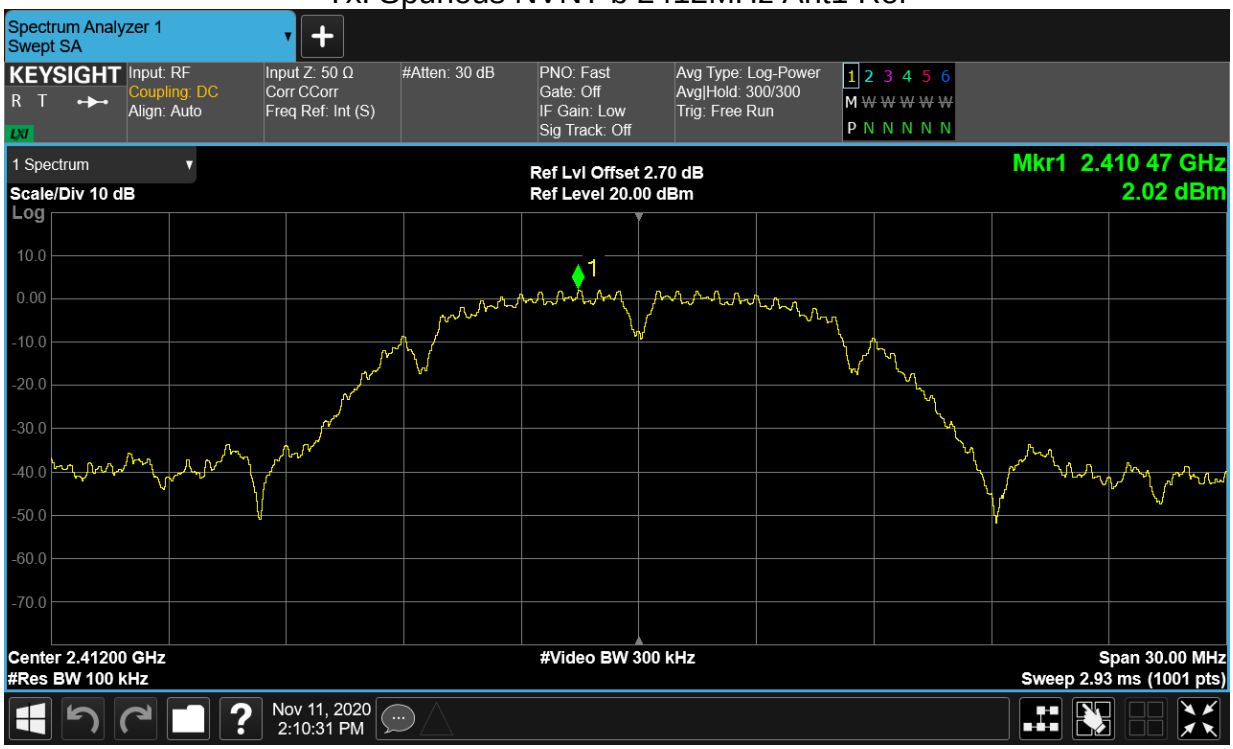


Conducted RF Spurious Emission

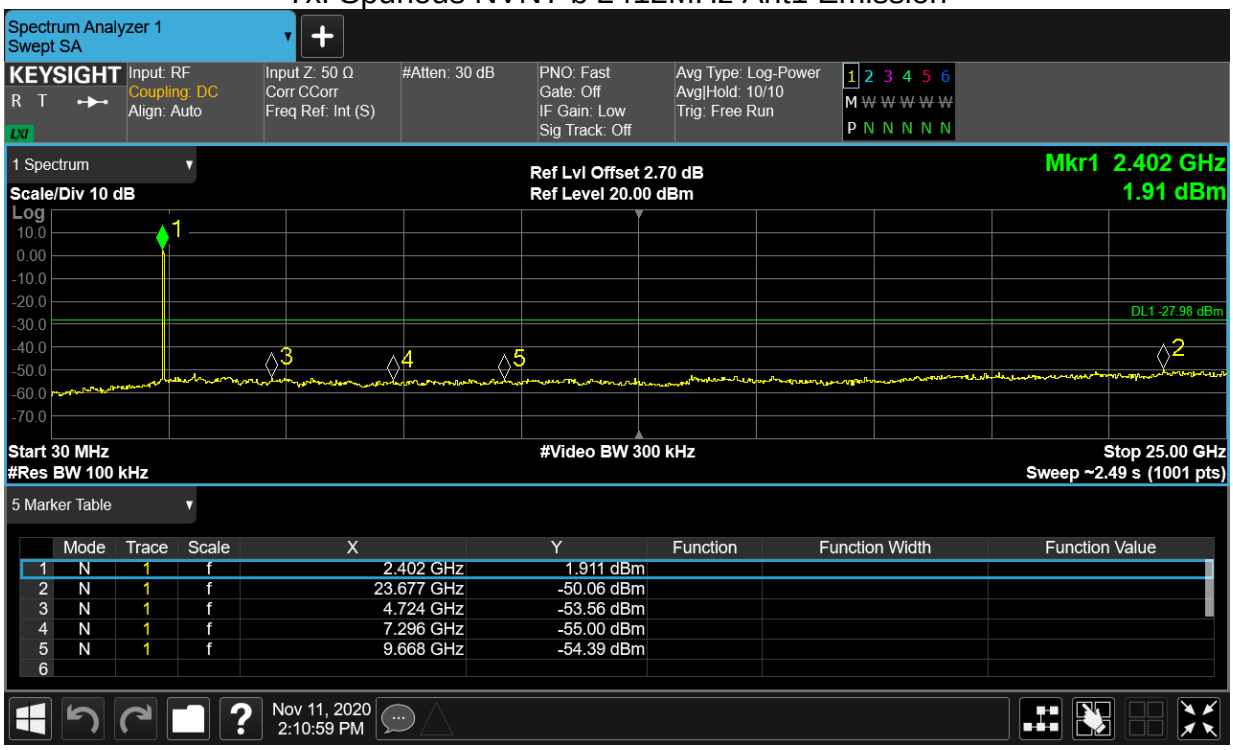
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.08	-30	Pass
NVNT	b	2437	Ant1	-45.24	-30	Pass
NVNT	b	2462	Ant1	-43.1	-30	Pass
NVNT	g	2412	Ant1	-38.2	-30	Pass
NVNT	g	2437	Ant1	-36.68	-30	Pass
NVNT	g	2462	Ant1	-35.08	-30	Pass

NVNT	n20	2412	Ant1	-35.93	-30	Pass
NVNT	n20	2437	Ant1	-36.17	-30	Pass
NVNT	n20	2462	Ant1	-36.14	-30	Pass

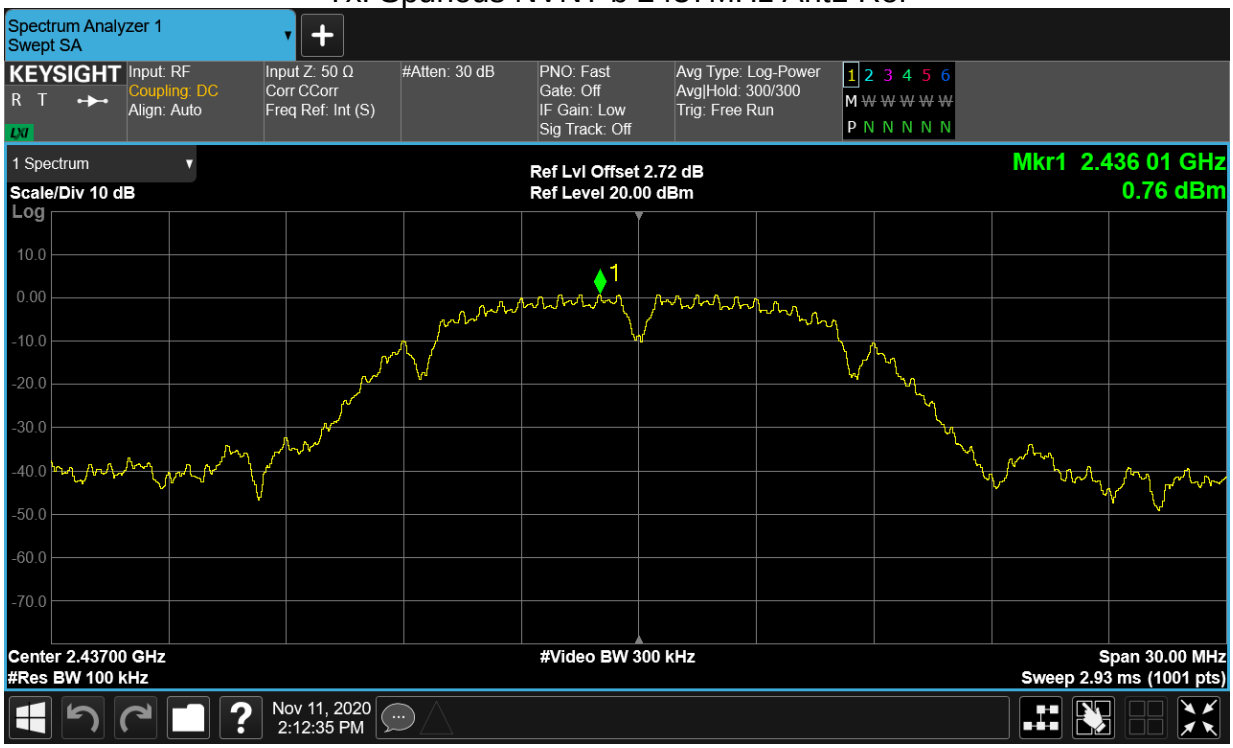
Tx. Spurious NVNT b 2412MHz Ant1 Ref



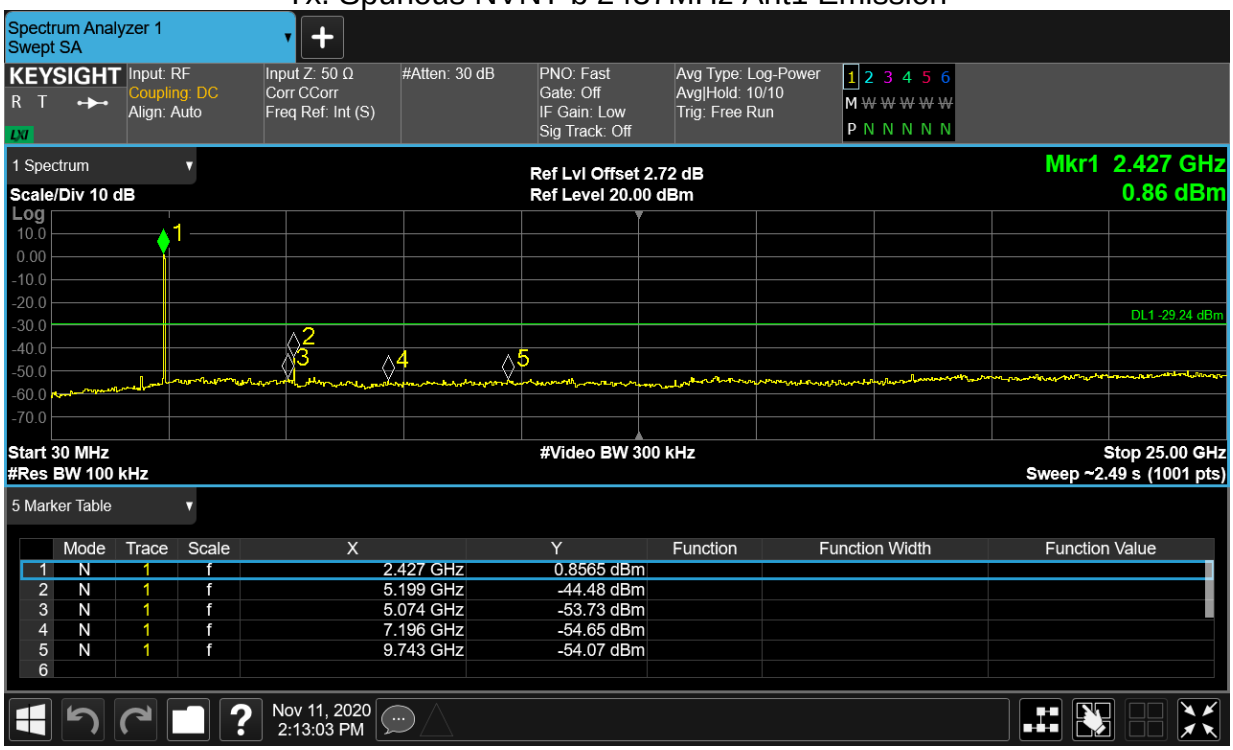
Tx. Spurious NVNT b 2412MHz Ant1 Emission



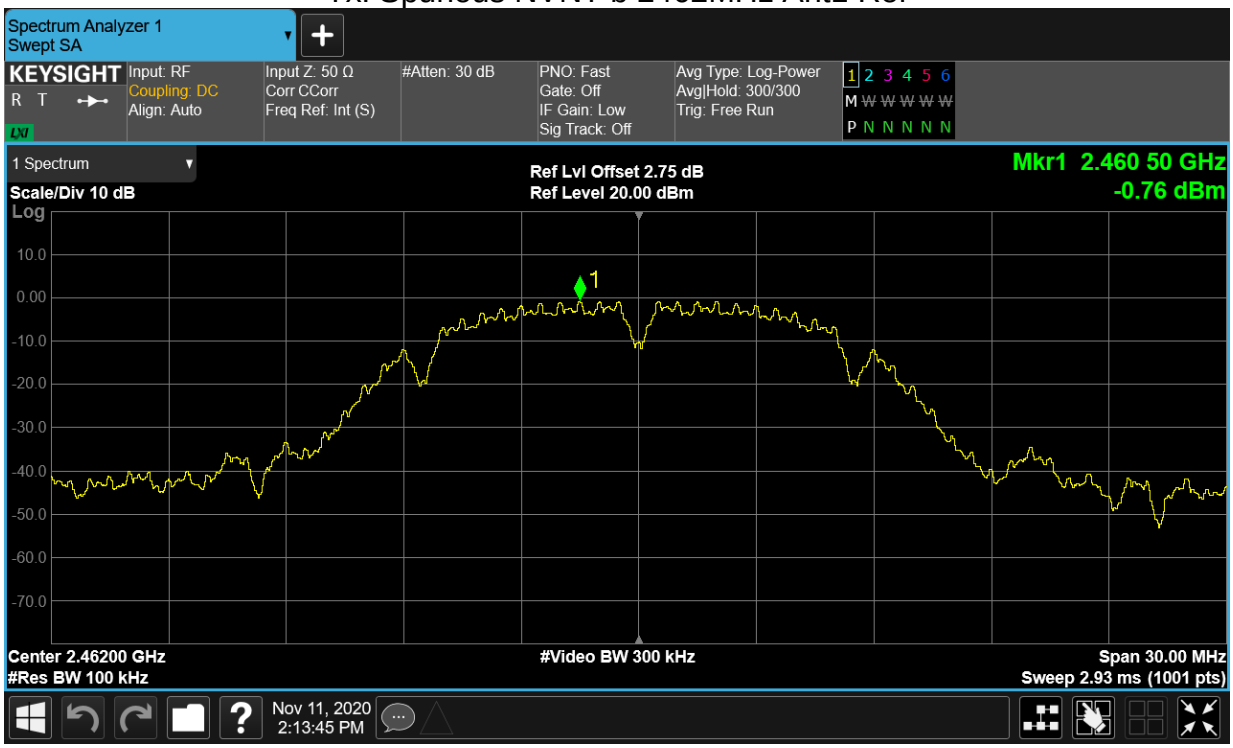
Tx. Spurious NVNT b 2437MHz Ant1 Ref



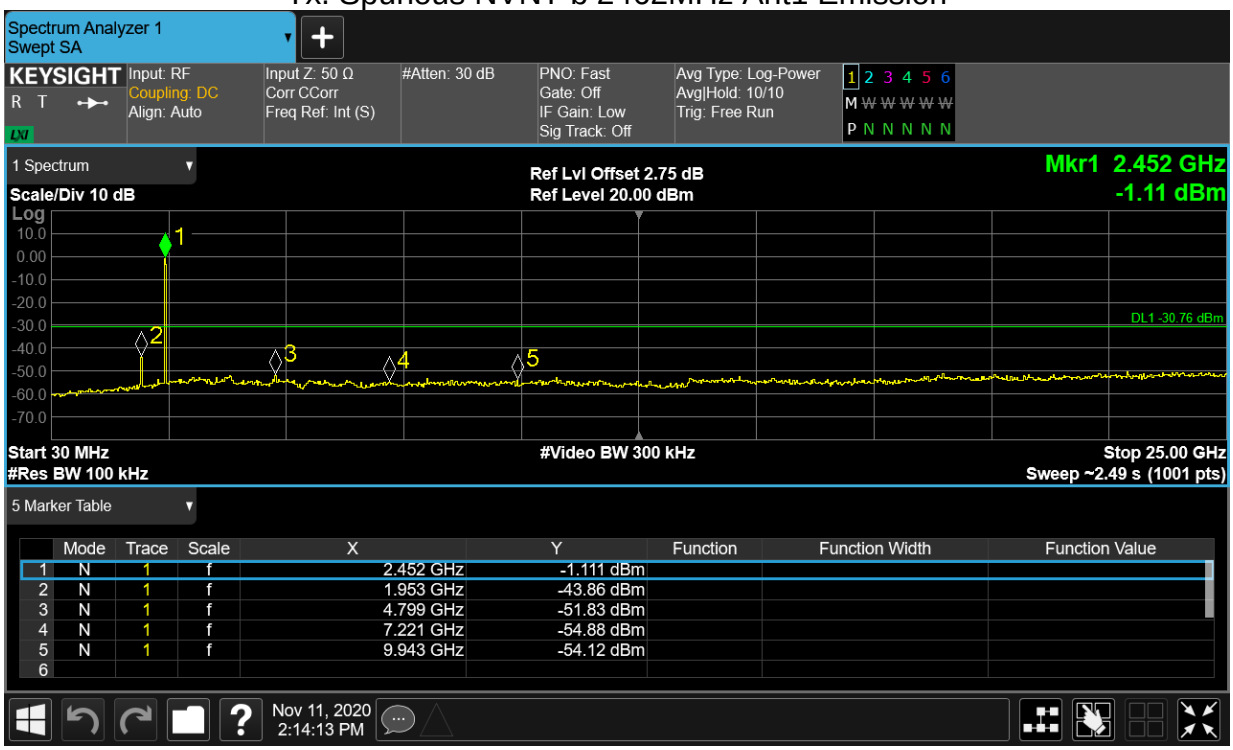
Tx. Spurious NVNT b 2437MHz Ant1 Emission



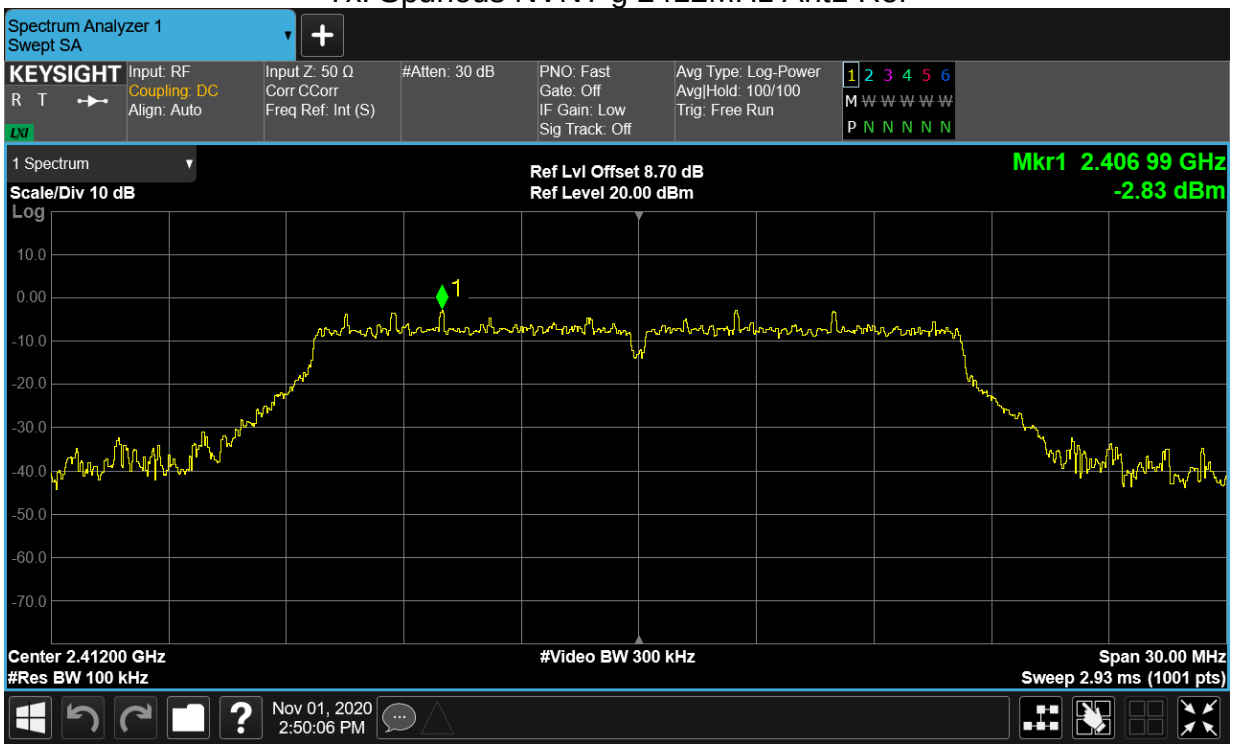
Tx. Spurious NVNT b 2462MHz Ant1 Ref



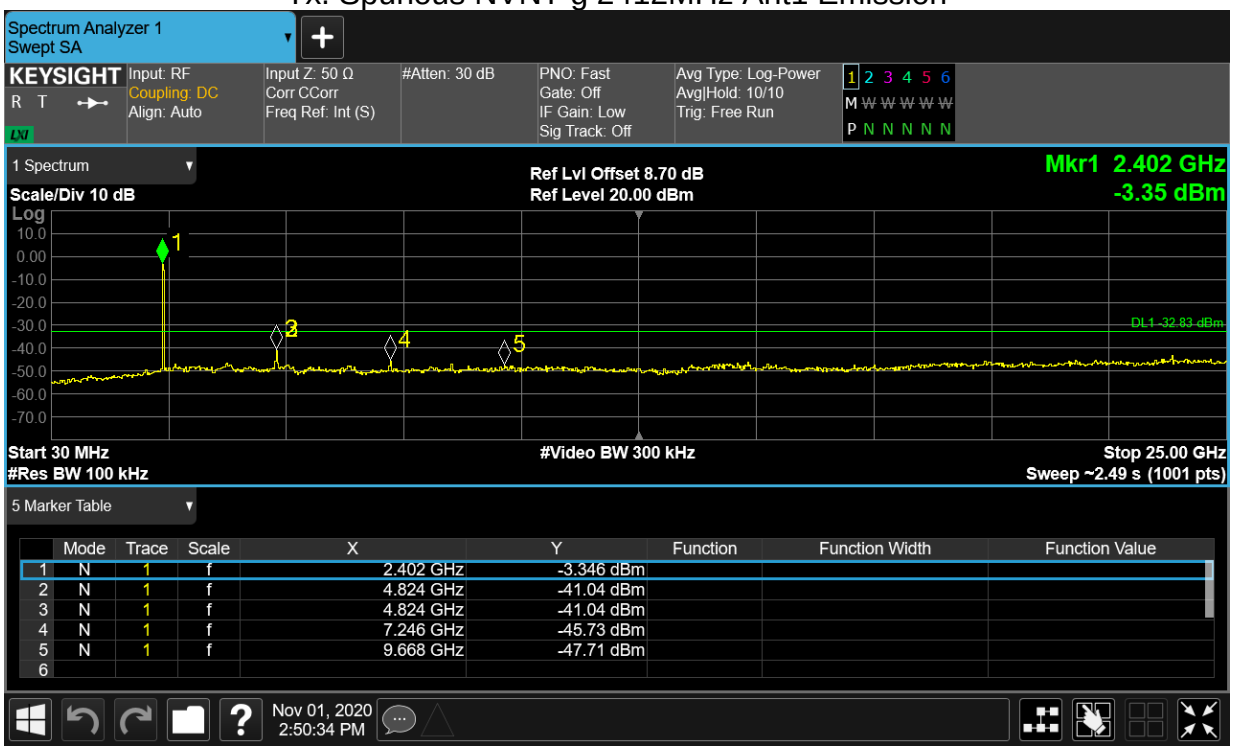
Tx. Spurious NVNT b 2462MHz Ant1 Emission



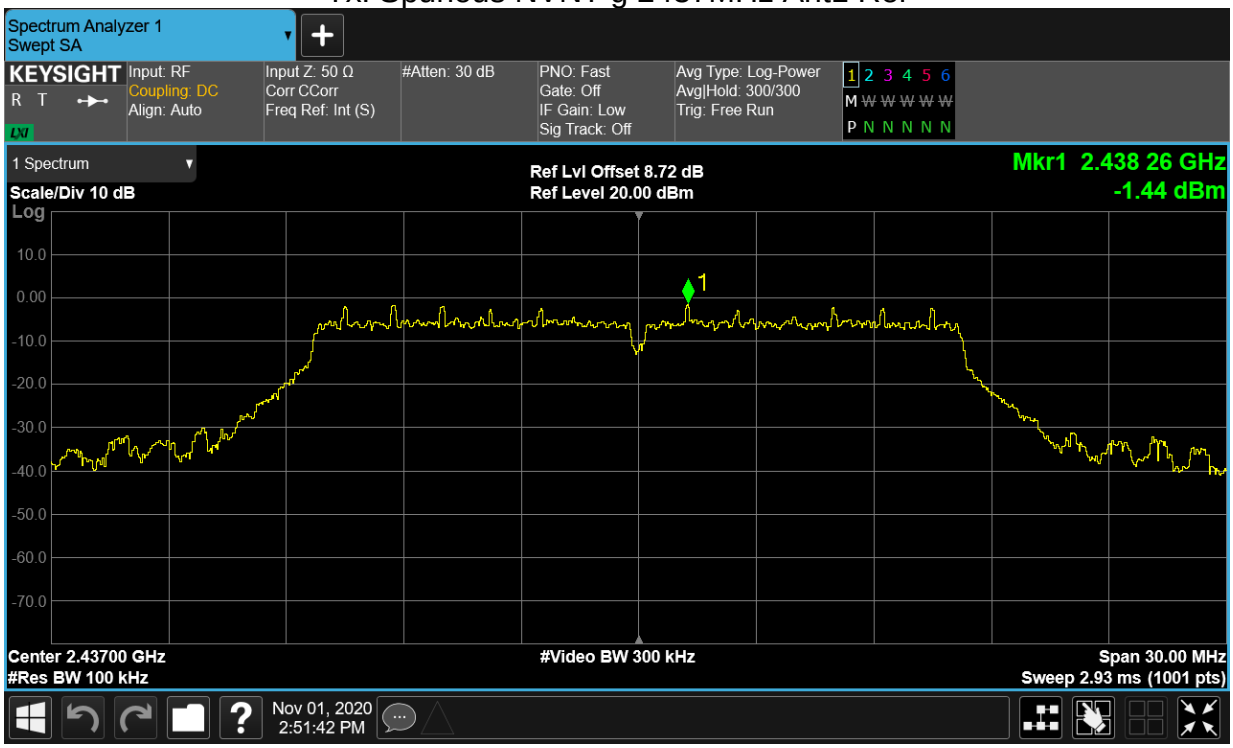
Tx. Spurious NVNT g 2412MHz Ant1 Ref



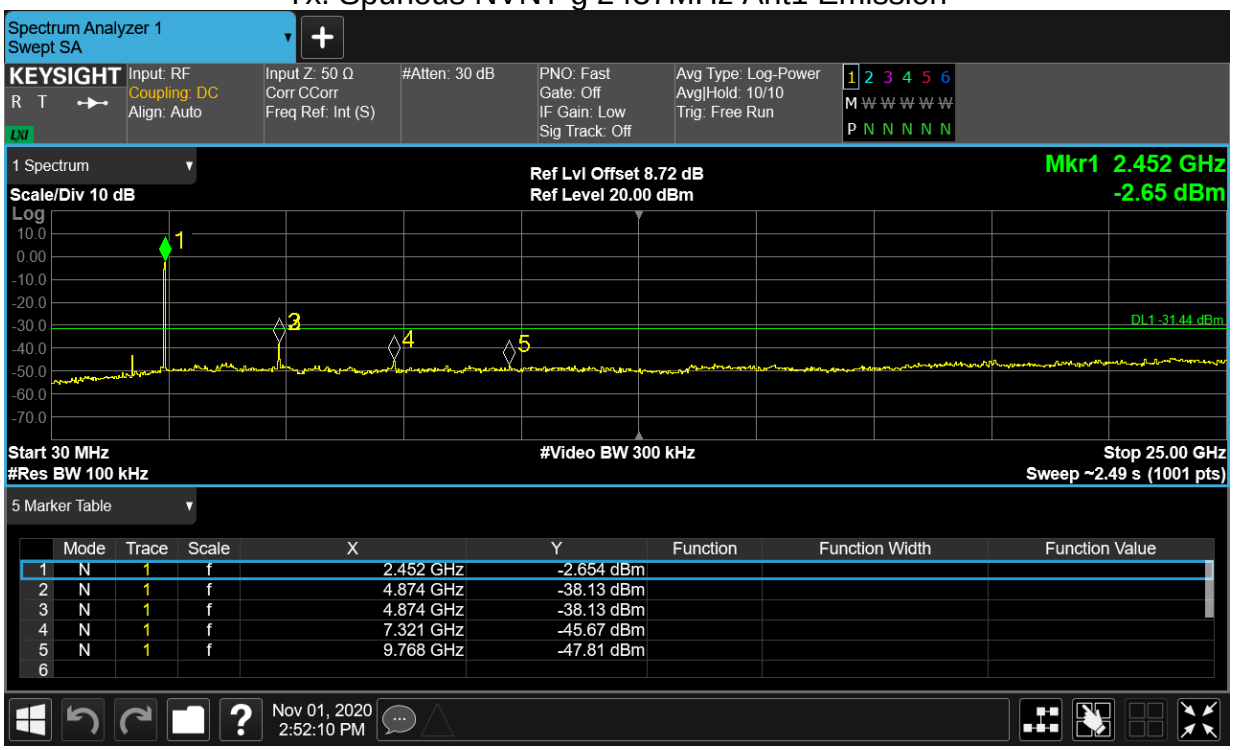
Tx. Spurious NVNT g 2412MHz Ant1 Emission



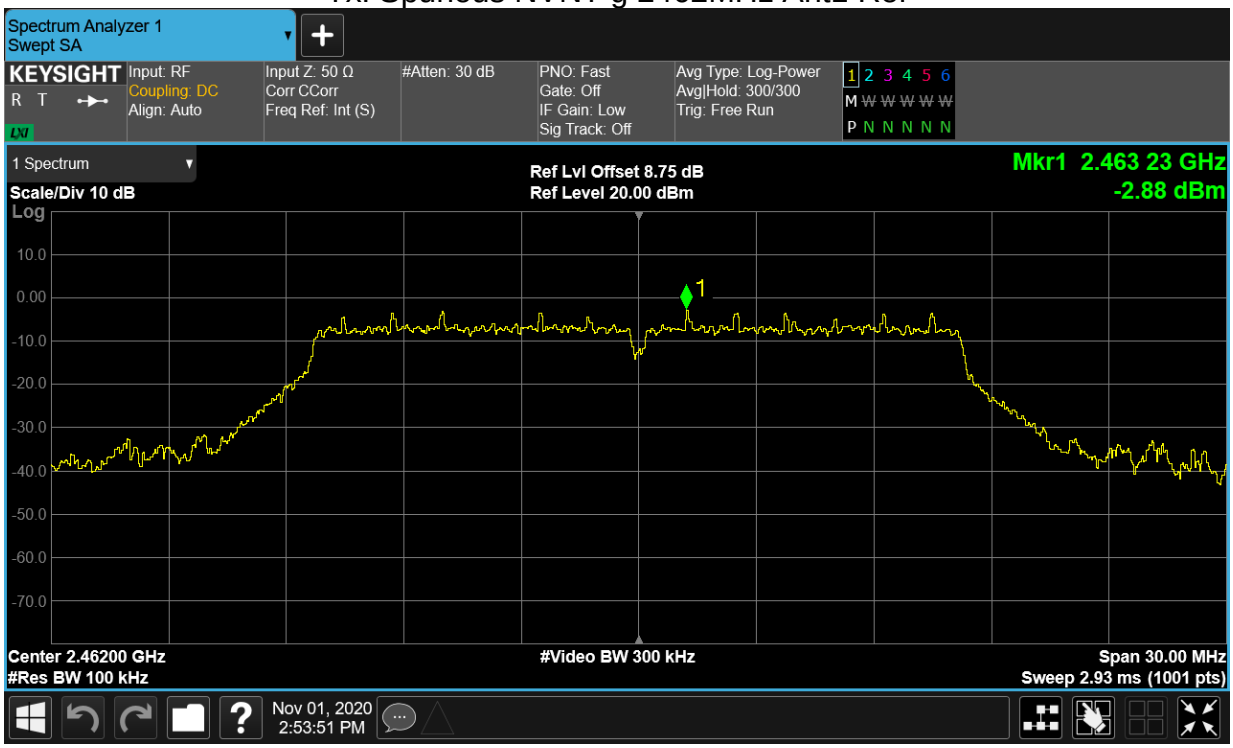
Tx. Spurious NVNT g 2437MHz Ant1 Ref



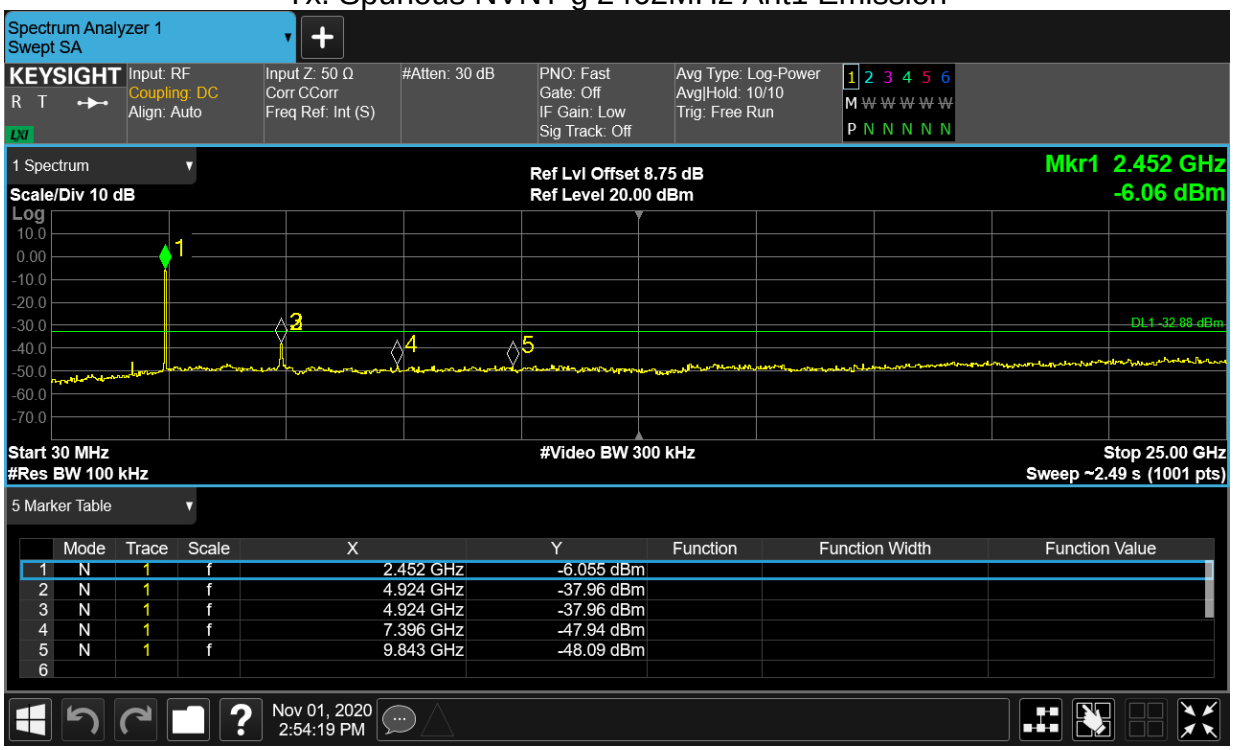
Tx. Spurious NVNT g 2437MHz Ant1 Emission



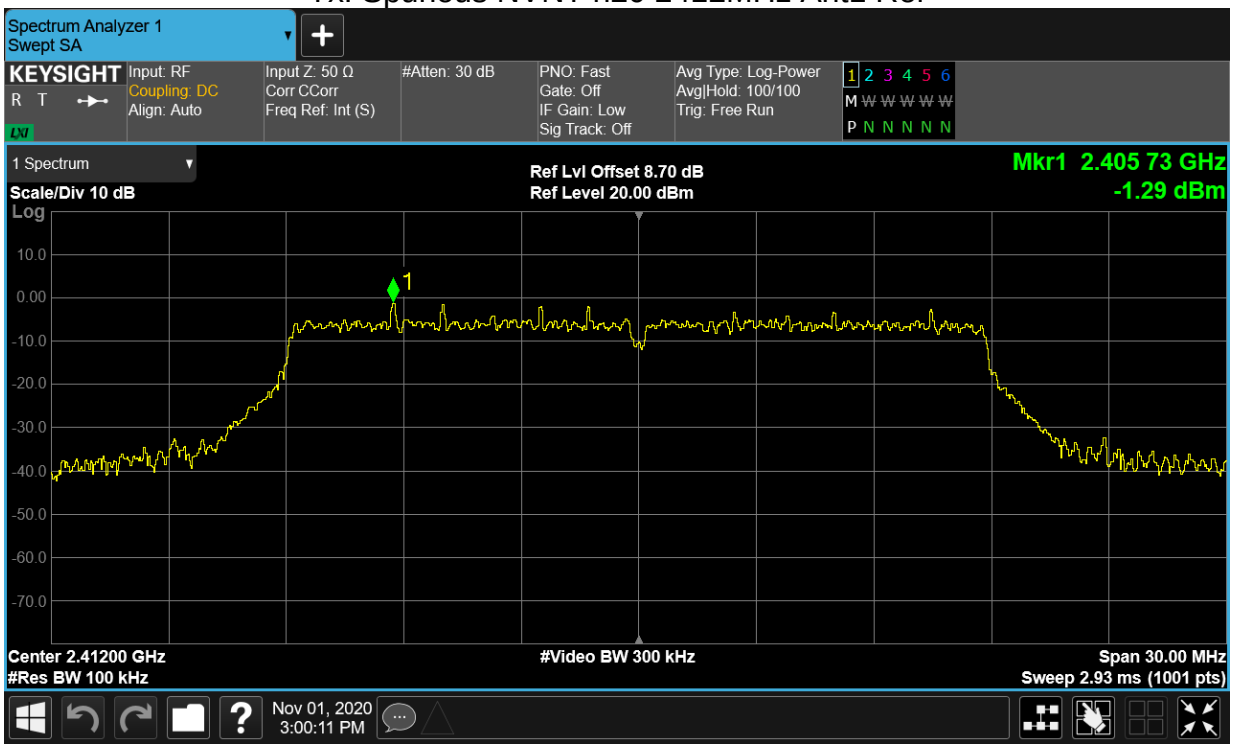
Tx. Spurious NVNT g 2462MHz Ant1 Ref



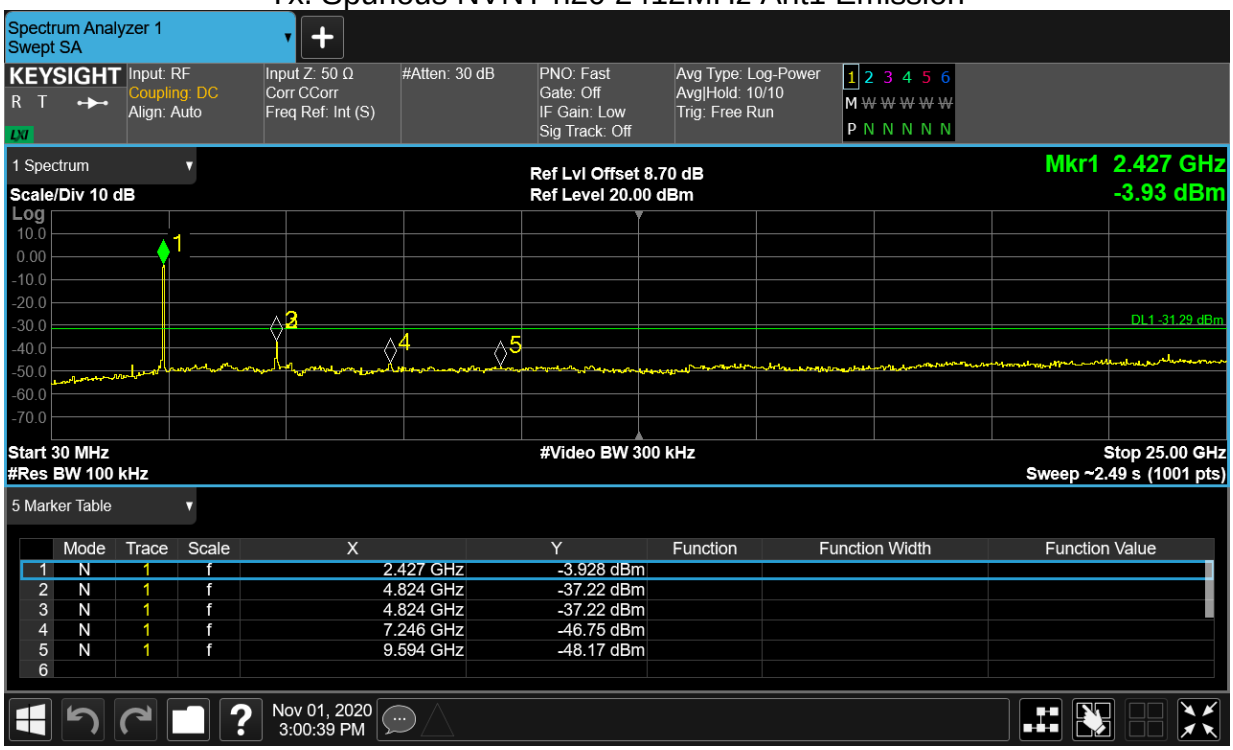
Tx. Spurious NVNT g 2462MHz Ant1 Emission



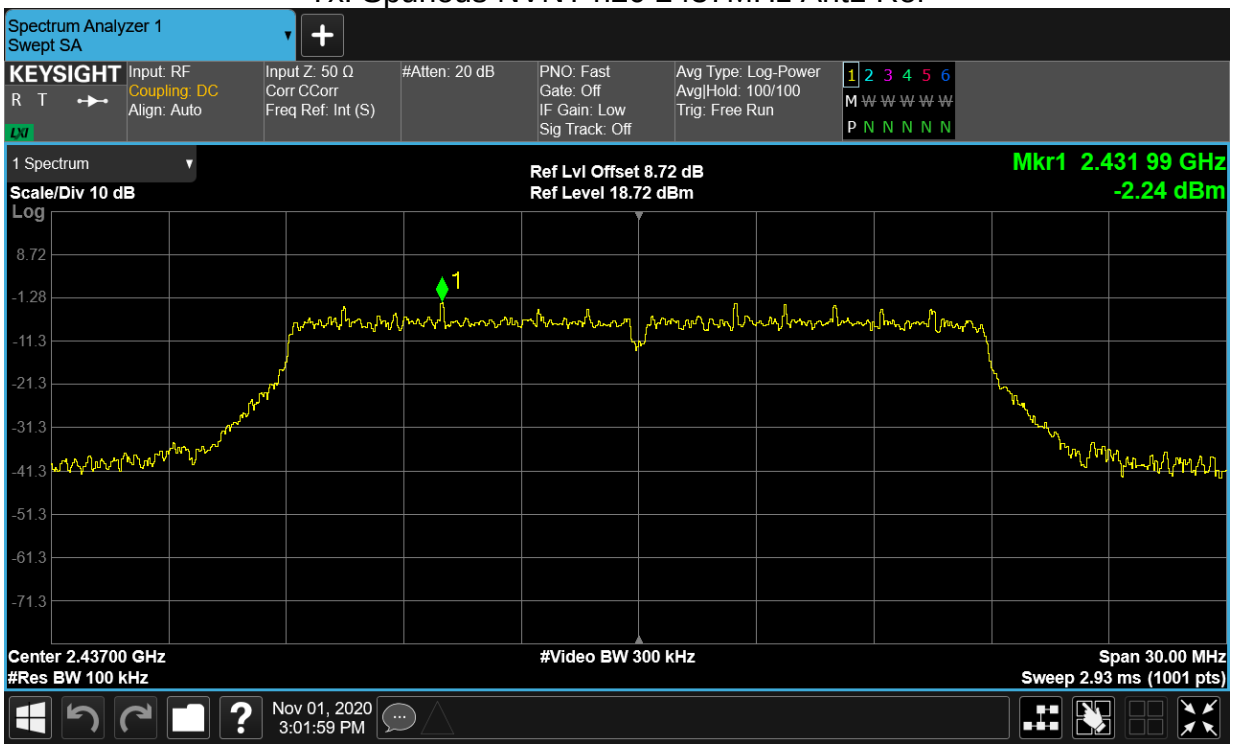
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



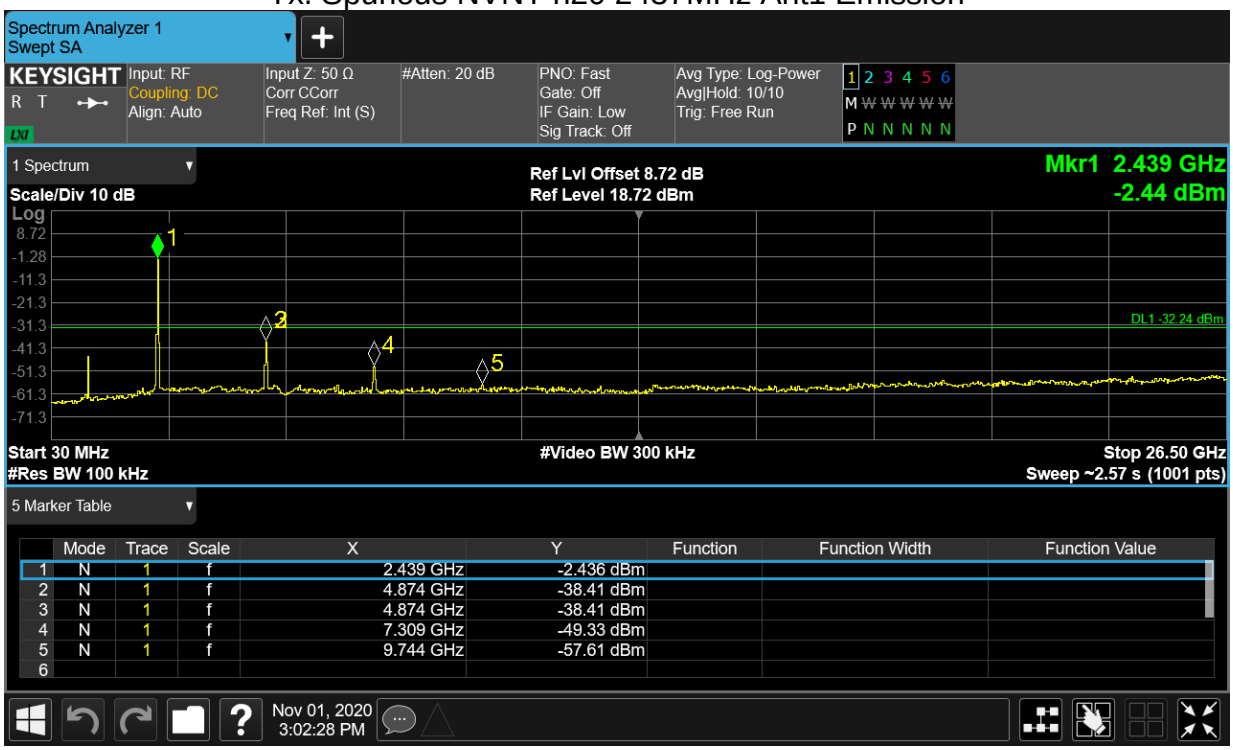
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref

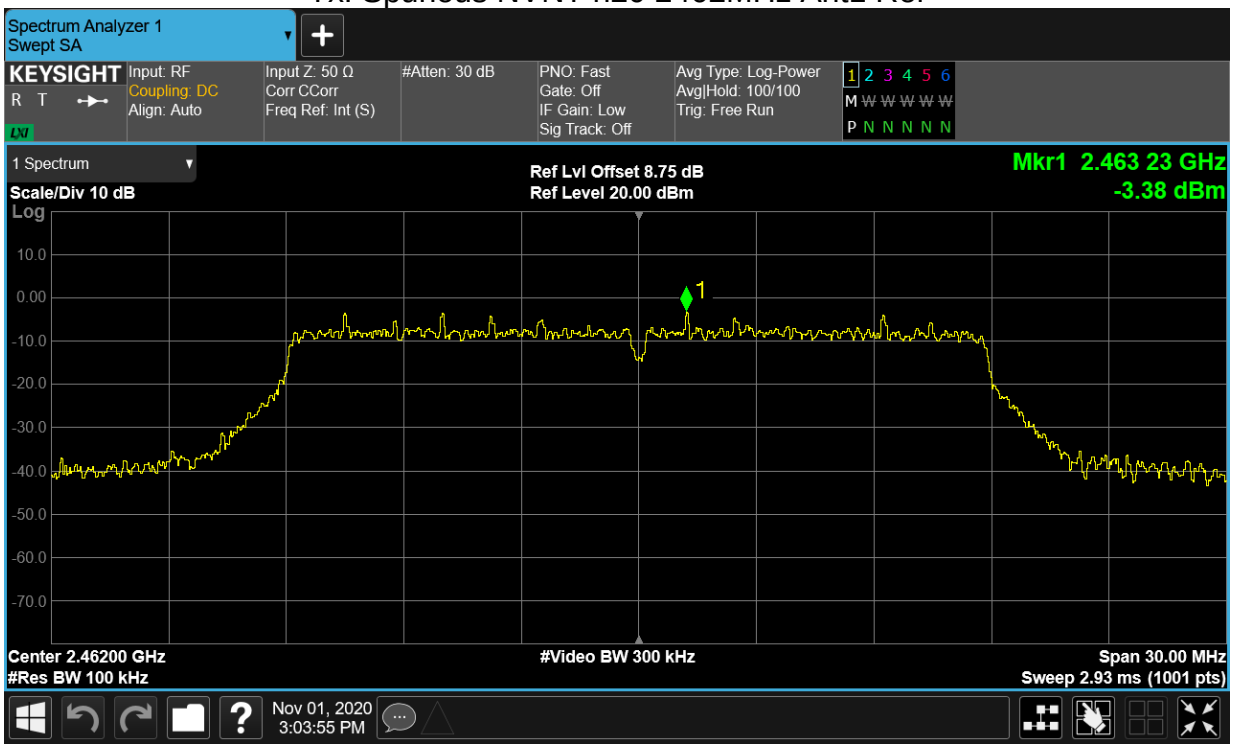


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

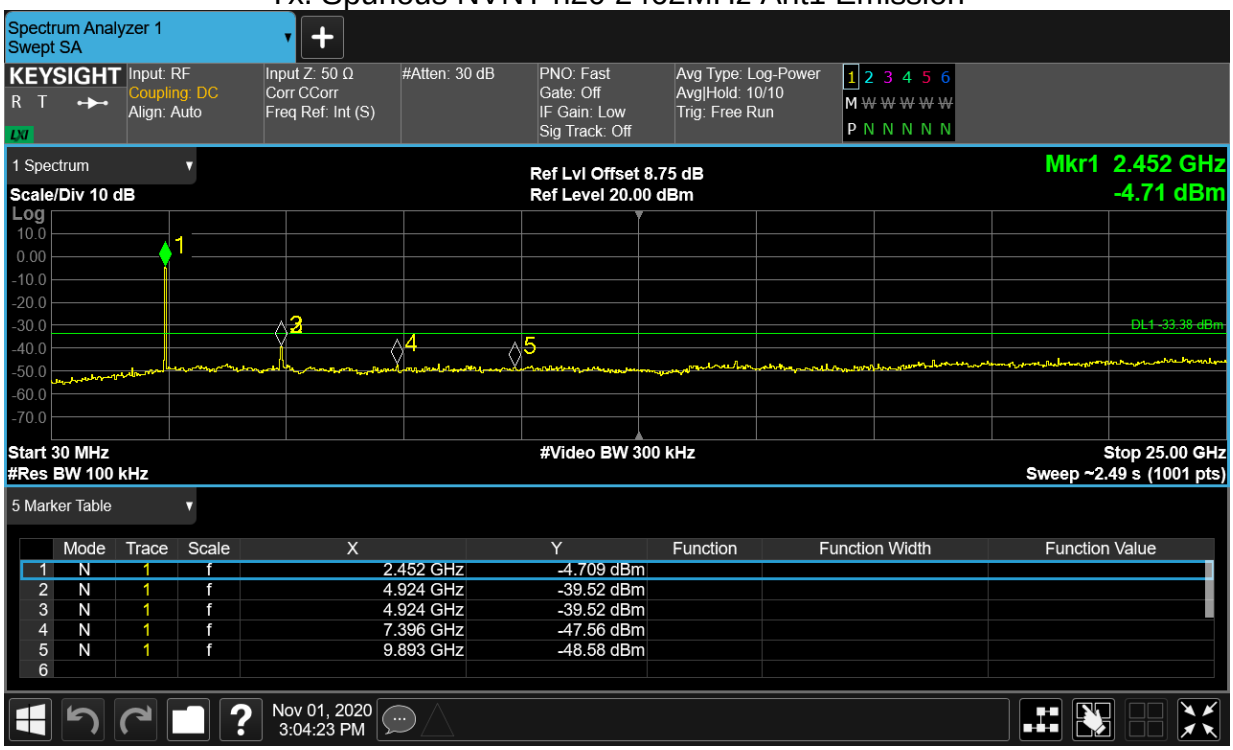


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.439 GHz	-2.436 dBm			
2	N	1	f	4.874 GHz	-38.41 dBm			
3	N	1	f	4.874 GHz	-38.41 dBm			
4	N	1	f	7.309 GHz	-49.33 dBm			
5	N	1	f	9.744 GHz	-57.61 dBm			
6								

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



------End of report------