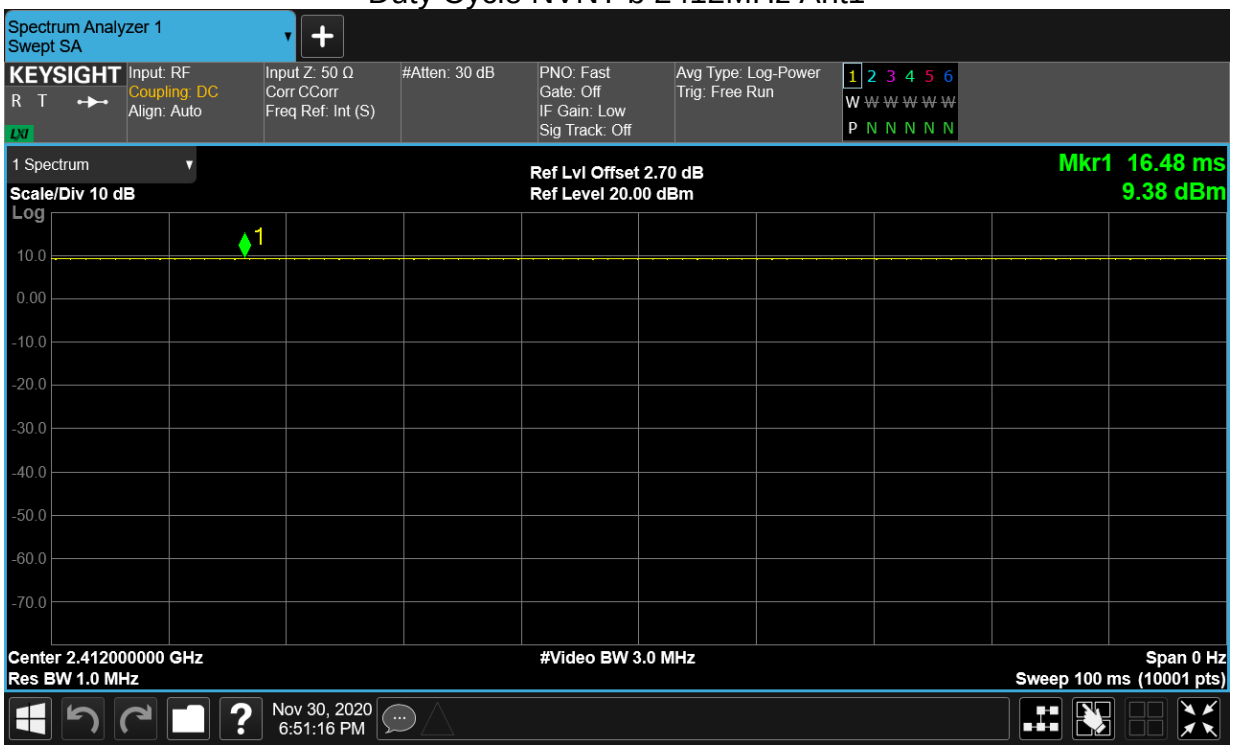
Appendix A - WIFI
Test Data

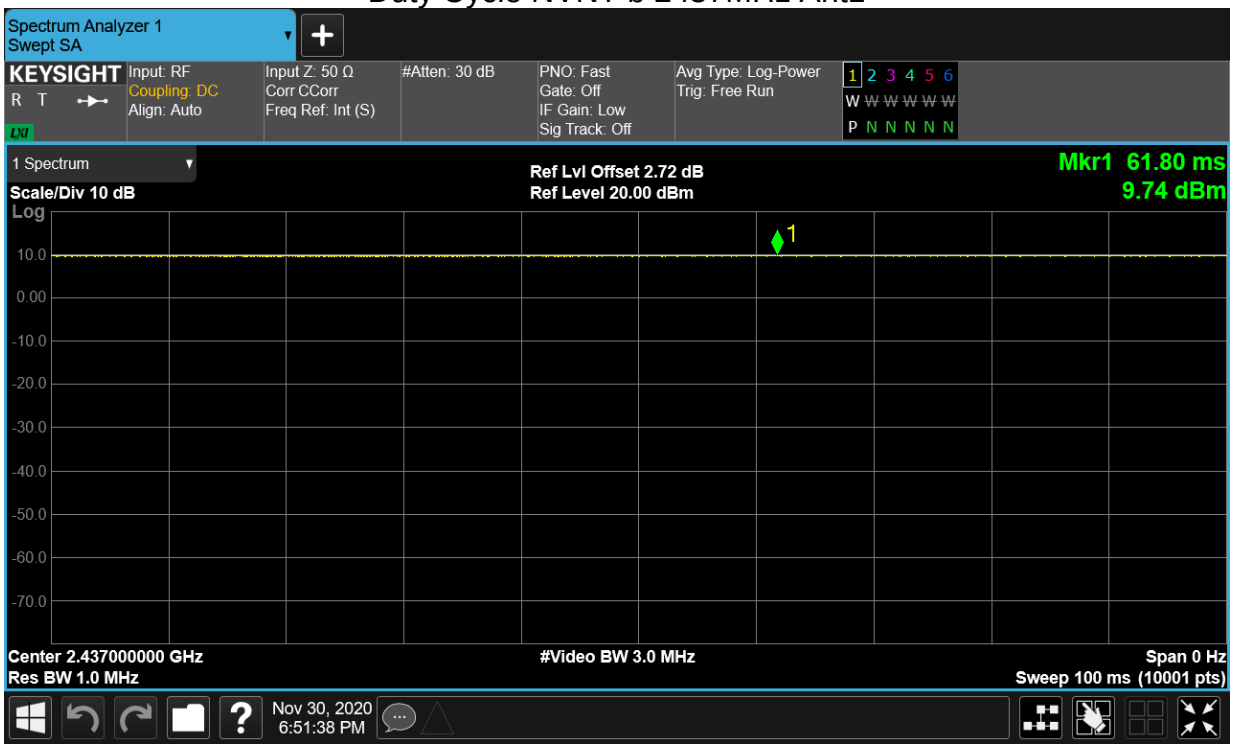
Duty Cycle

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

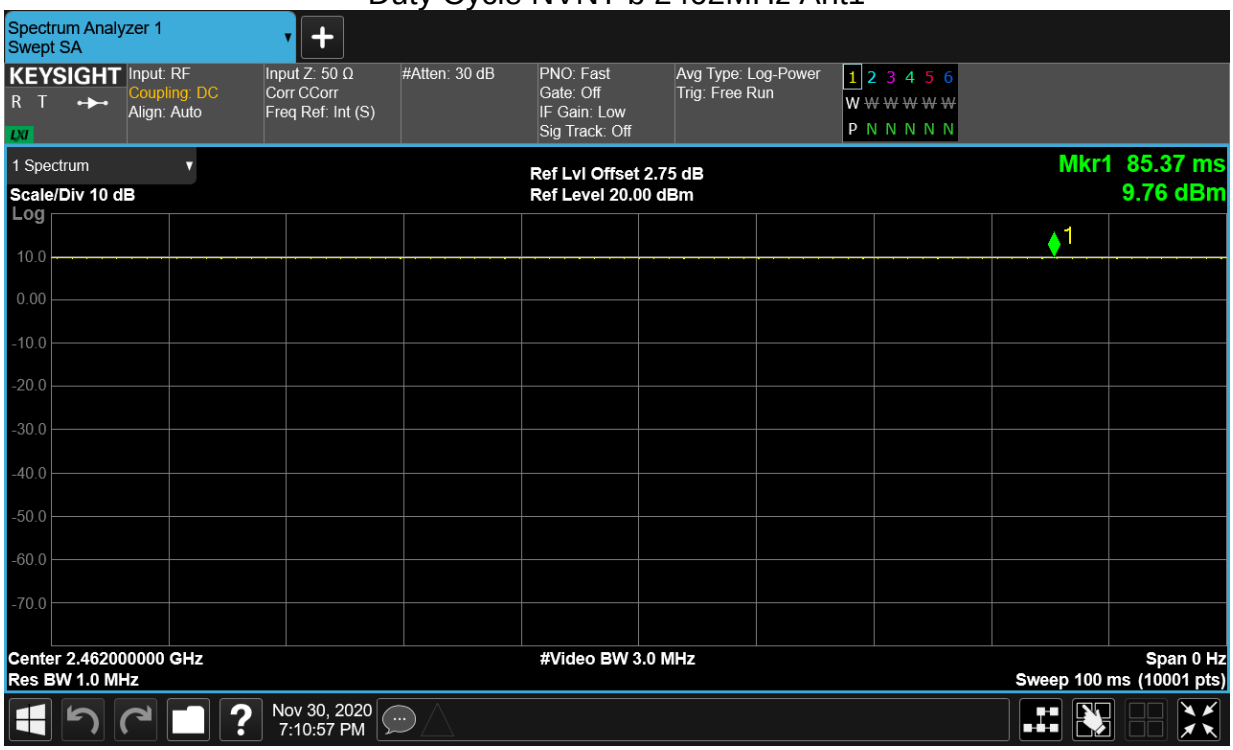
Duty Cycle NVNT b 2412MHz Ant1



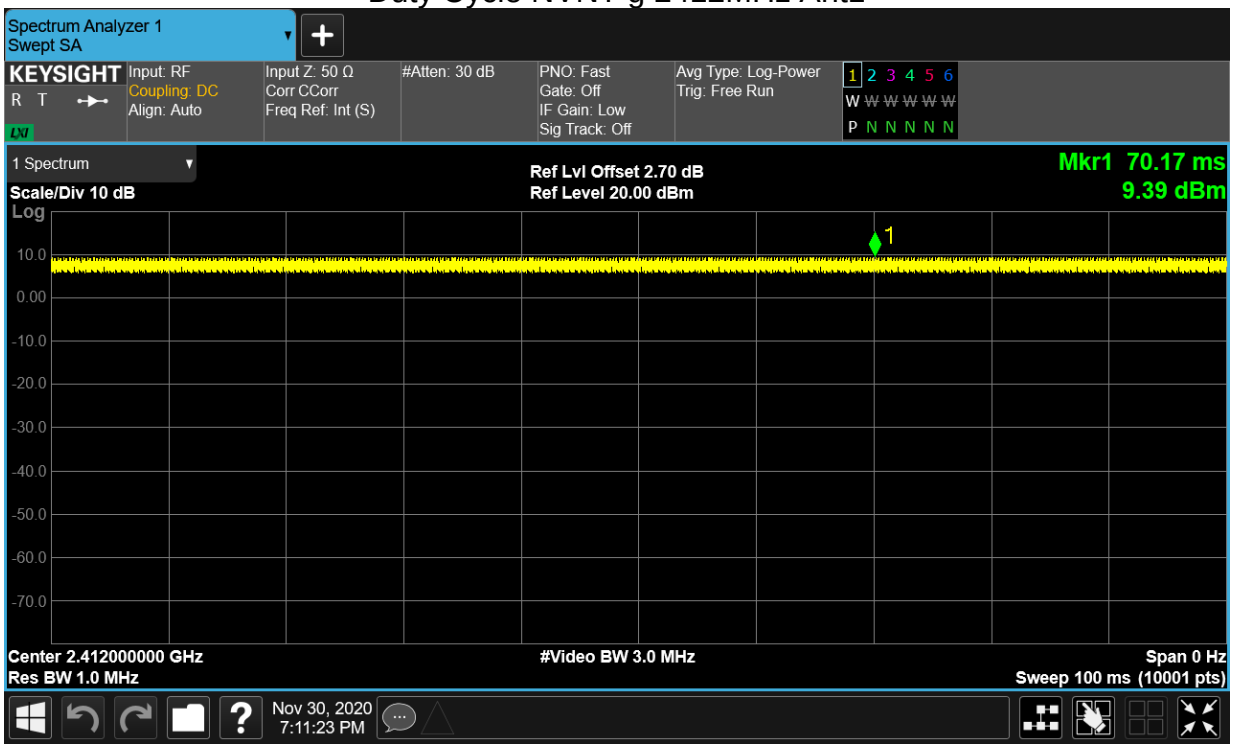
Duty Cycle NVNT b 2437MHz Ant1



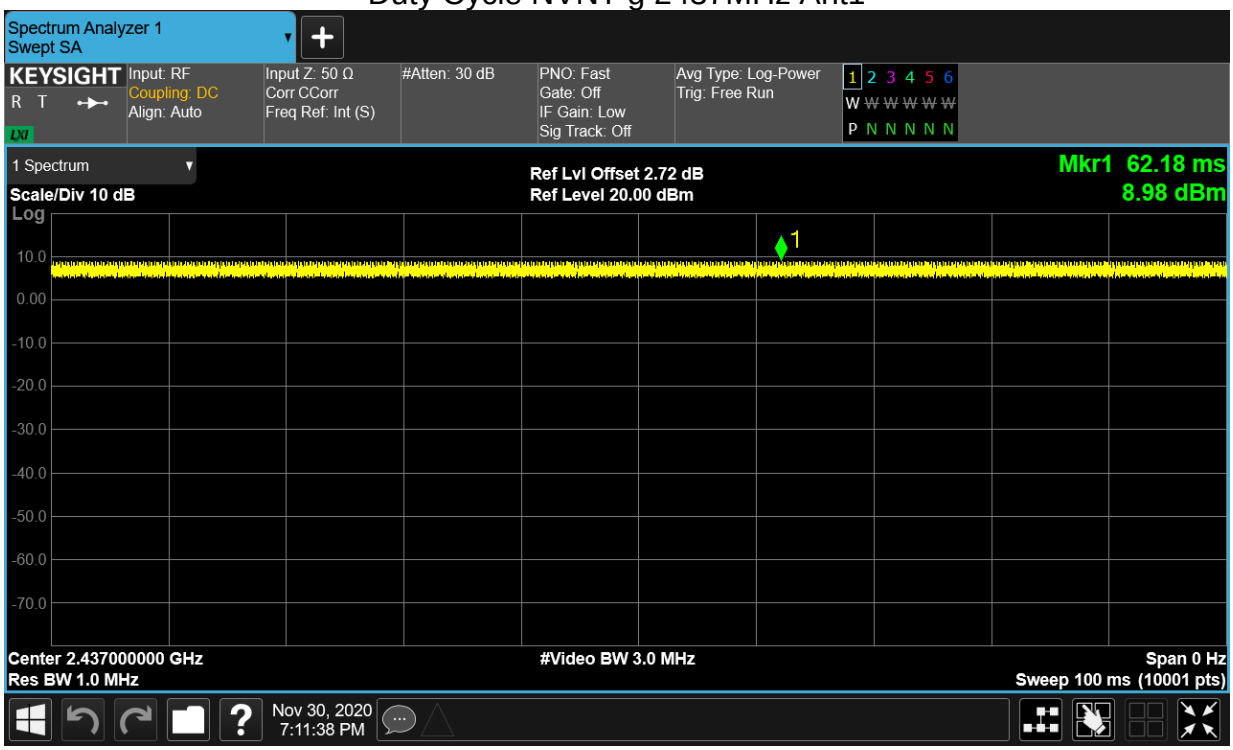
Duty Cycle NVNT b 2462MHz Ant1



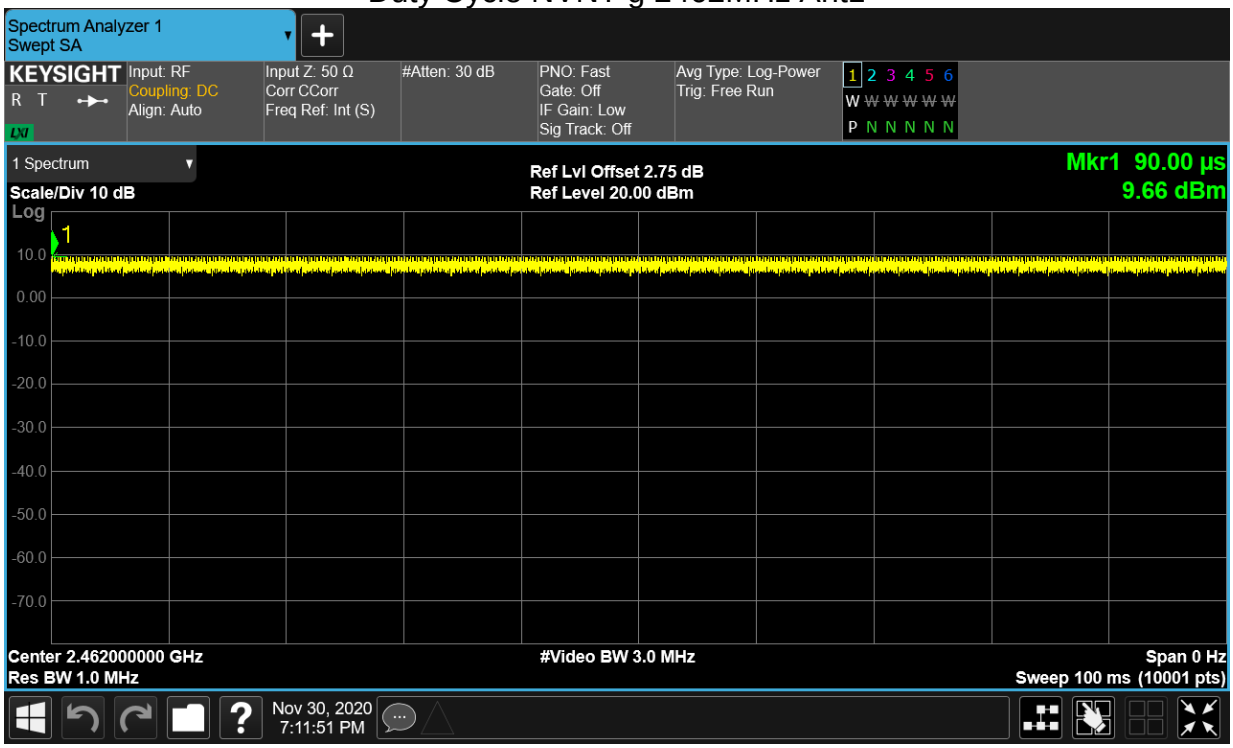
Duty Cycle NVNT g 2412MHz Ant1



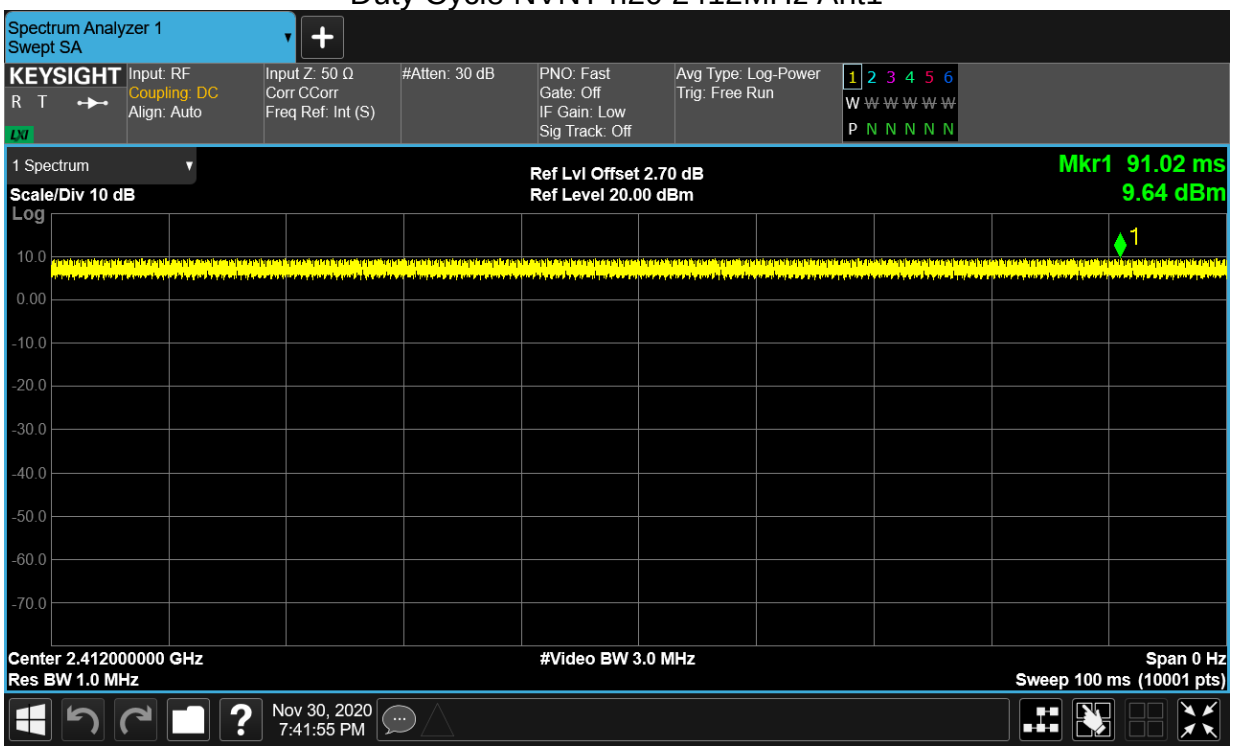
Duty Cycle NVNT g 2437MHz Ant1



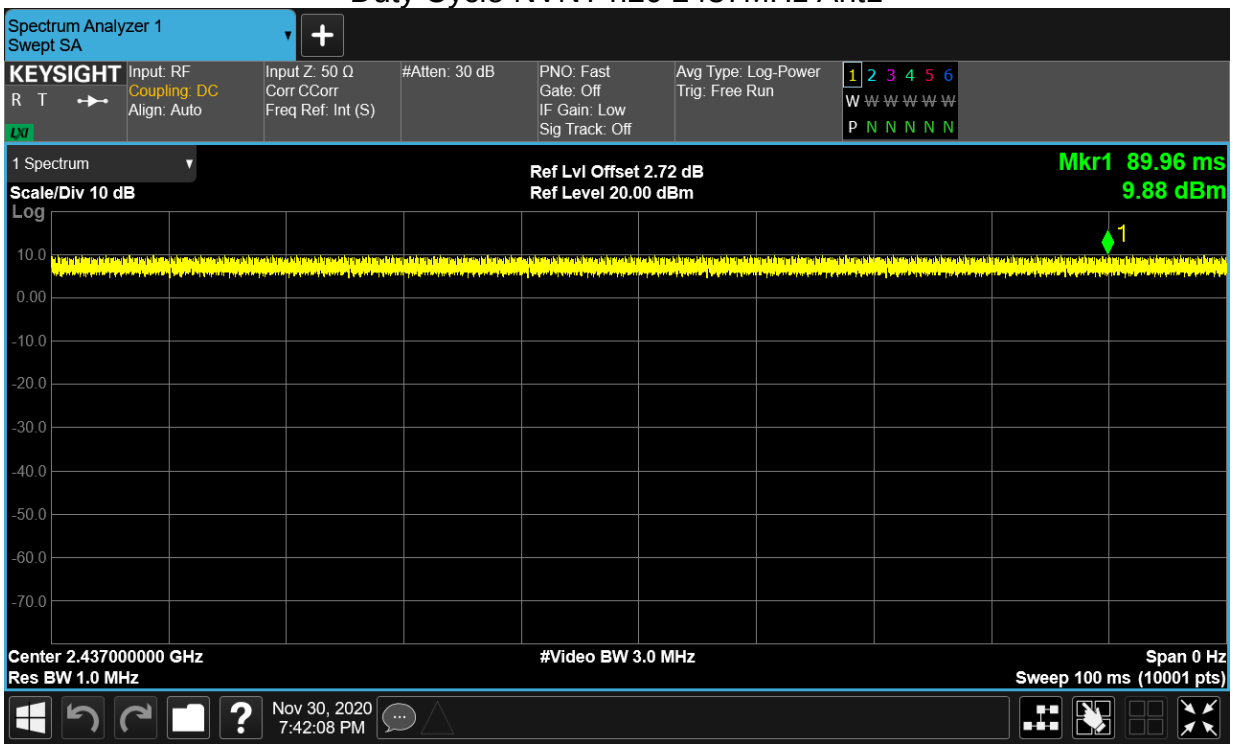
Duty Cycle NVNT g 2462MHz Ant1



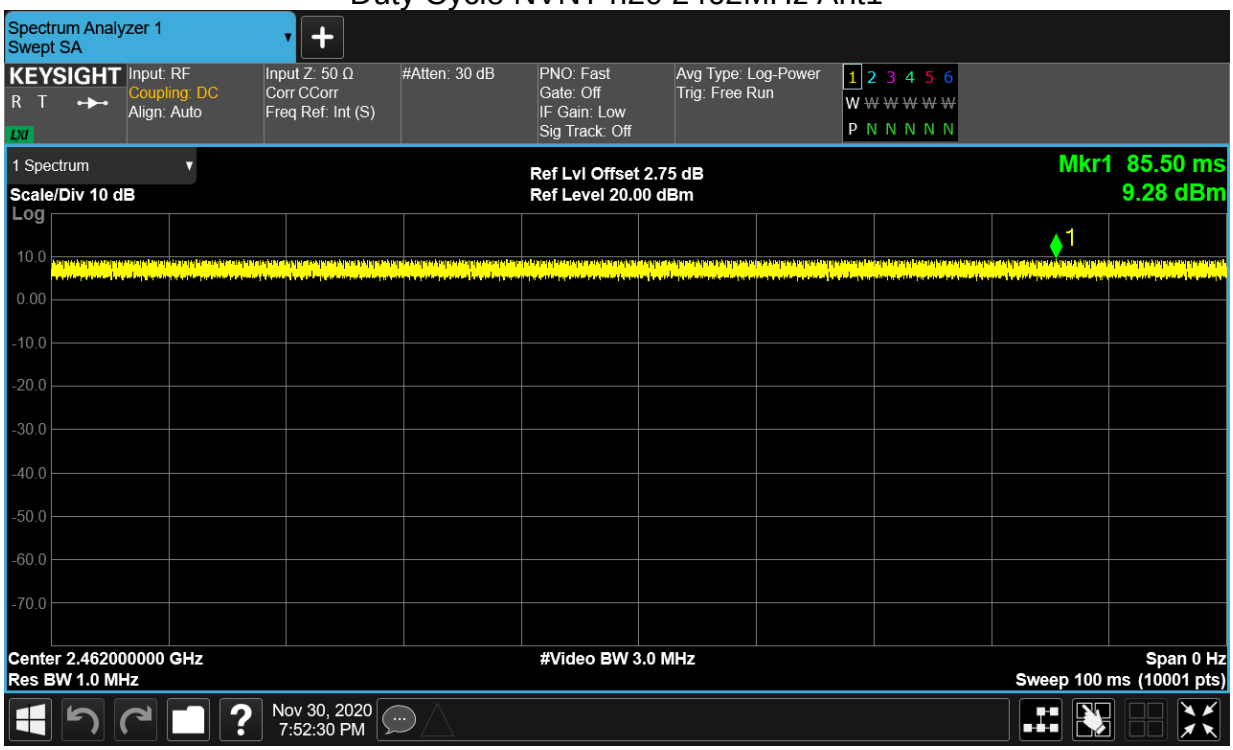
Duty Cycle NVNT n20 2412MHz Ant1



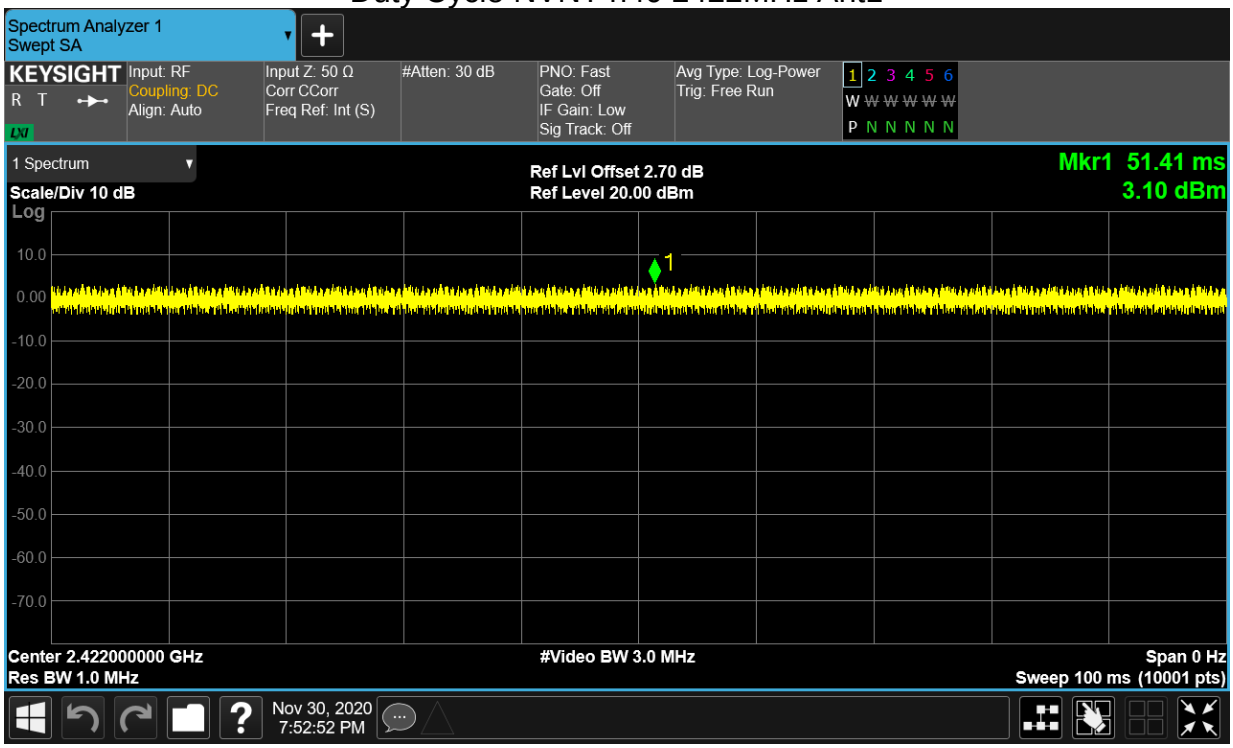
Duty Cycle NVNT n20 2437MHz Ant1



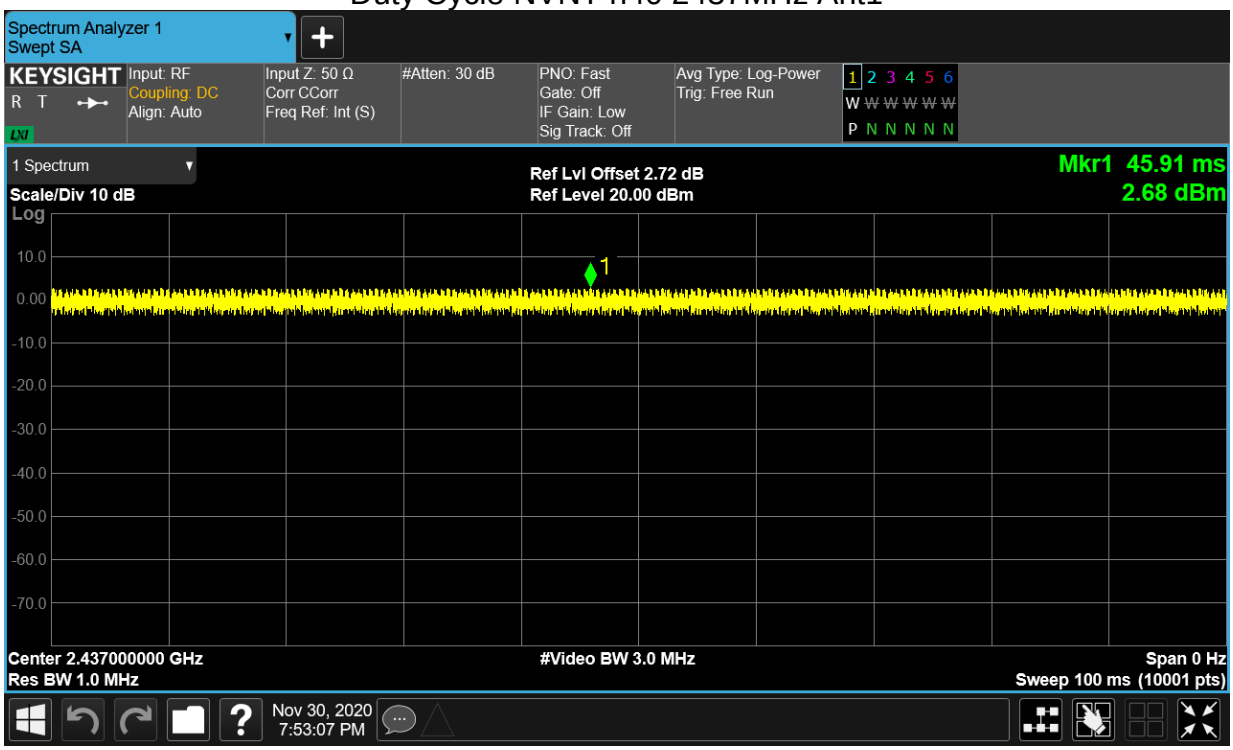
Duty Cycle NVNT n20 2462MHz Ant1



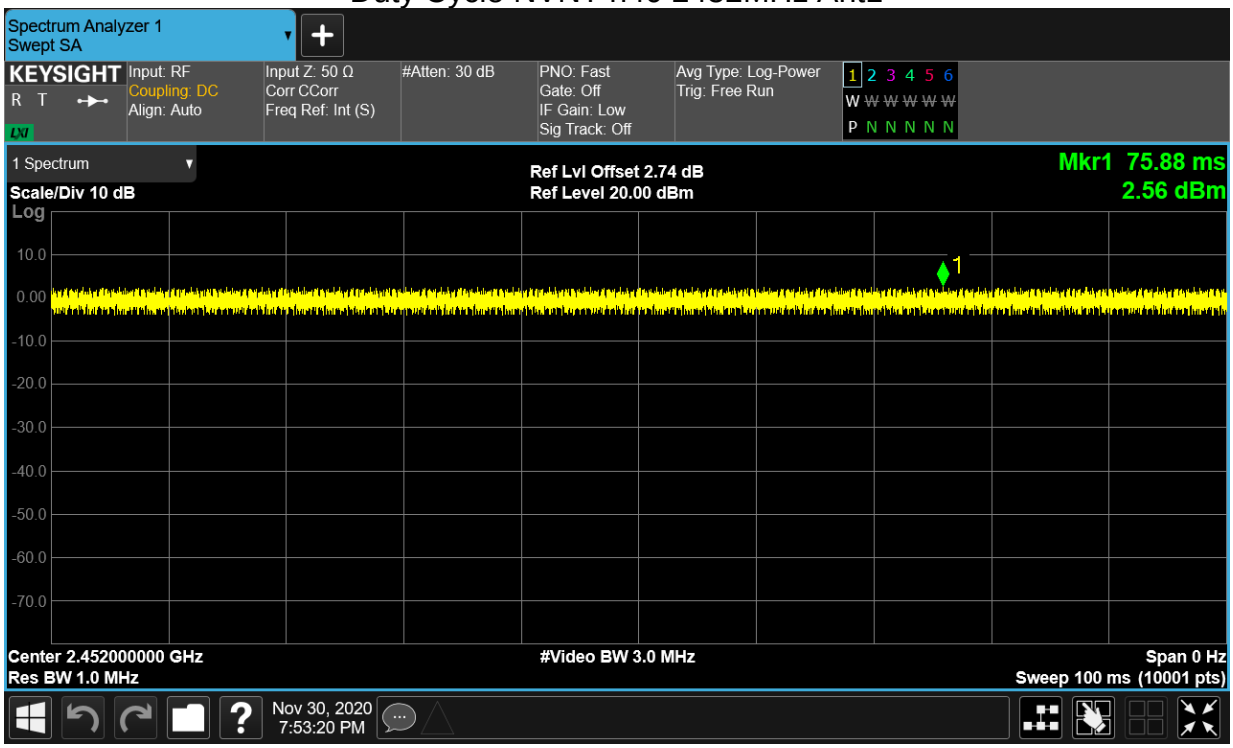
Duty Cycle NVNT n40 2422MHz Ant1



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	15.3	0	15.3	30	Pass
NVNT	b	2437	Ant1	14.98	0	14.98	30	Pass
NVNT	b	2462	Ant1	15.52	0	15.52	30	Pass
NVNT	g	2412	Ant1	11.5	0	11.5	30	Pass
NVNT	g	2437	Ant1	13.04	0	13.04	30	Pass
NVNT	g	2462	Ant1	13.49	0	13.49	30	Pass
NVNT	n20	2412	Ant1	11.43	0	11.43	30	Pass
NVNT	n20	2437	Ant1	12.67	0	12.67	30	Pass
NVNT	n20	2462	Ant1	13.45	0	13.45	30	Pass
NVNT	n40	2422	Ant1	12.88	0	12.88	30	Pass
NVNT	n40	2437	Ant1	12.64	0	12.64	30	Pass
NVNT	n40	2452	Ant1	12.58	0	12.58	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.553	0.5	Pass
NVNT	b	2437	Ant1	9.069	0.5	Pass
NVNT	b	2462	Ant1	9.086	0.5	Pass
NVNT	g	2412	Ant1	15.926	0.5	Pass
NVNT	g	2437	Ant1	15.123	0.5	Pass
NVNT	g	2462	Ant1	14.796	0.5	Pass
NVNT	n20	2412	Ant1	17.154	0.5	Pass
NVNT	n20	2437	Ant1	15.047	0.5	Pass

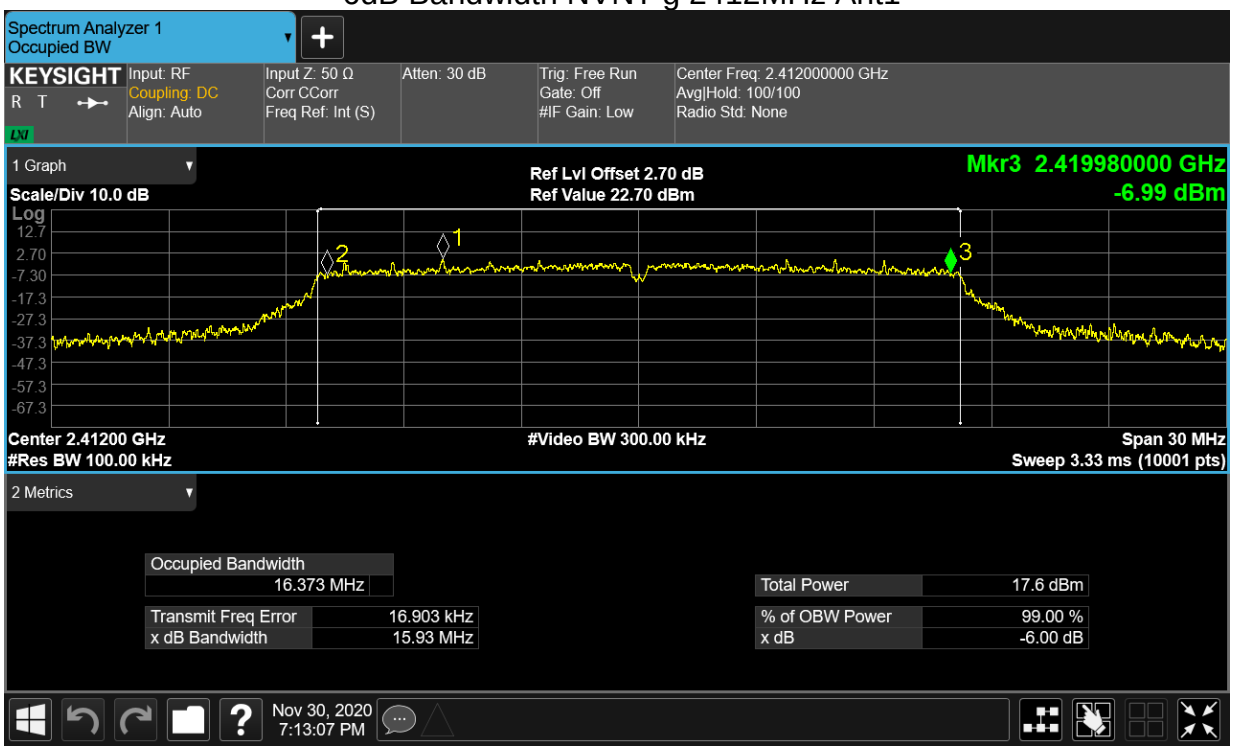
NVNT	n20	2462	Ant1	15.066	0.5	Pass
NVNT	n40	2422	Ant1	35.153	0.5	Pass
NVNT	n40	2437	Ant1	35.105	0.5	Pass
NVNT	n40	2452	Ant1	35.122	0.5	Pass

-6dB Bandwidth NVNT b 2412MHz Ant1

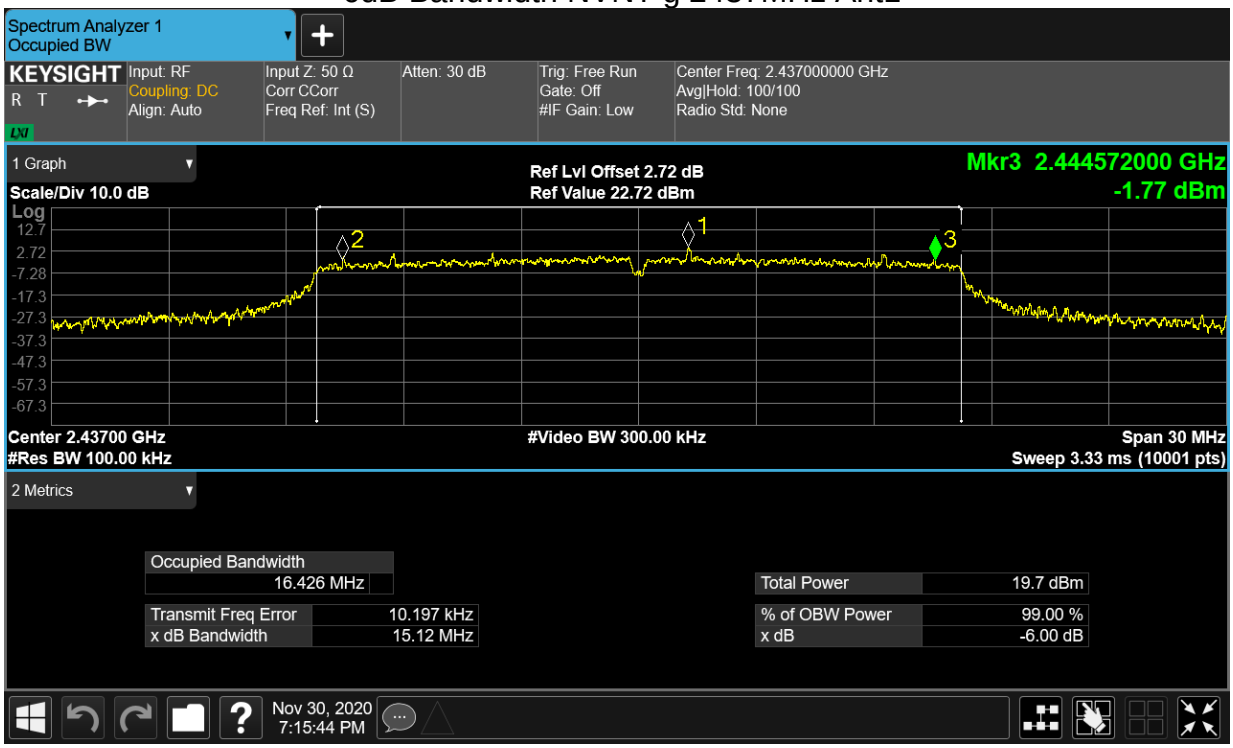
-6dB Bandwidth NVNT b 2437MHz Ant1

-6dB Bandwidth NVNT b 2462MHz Ant1

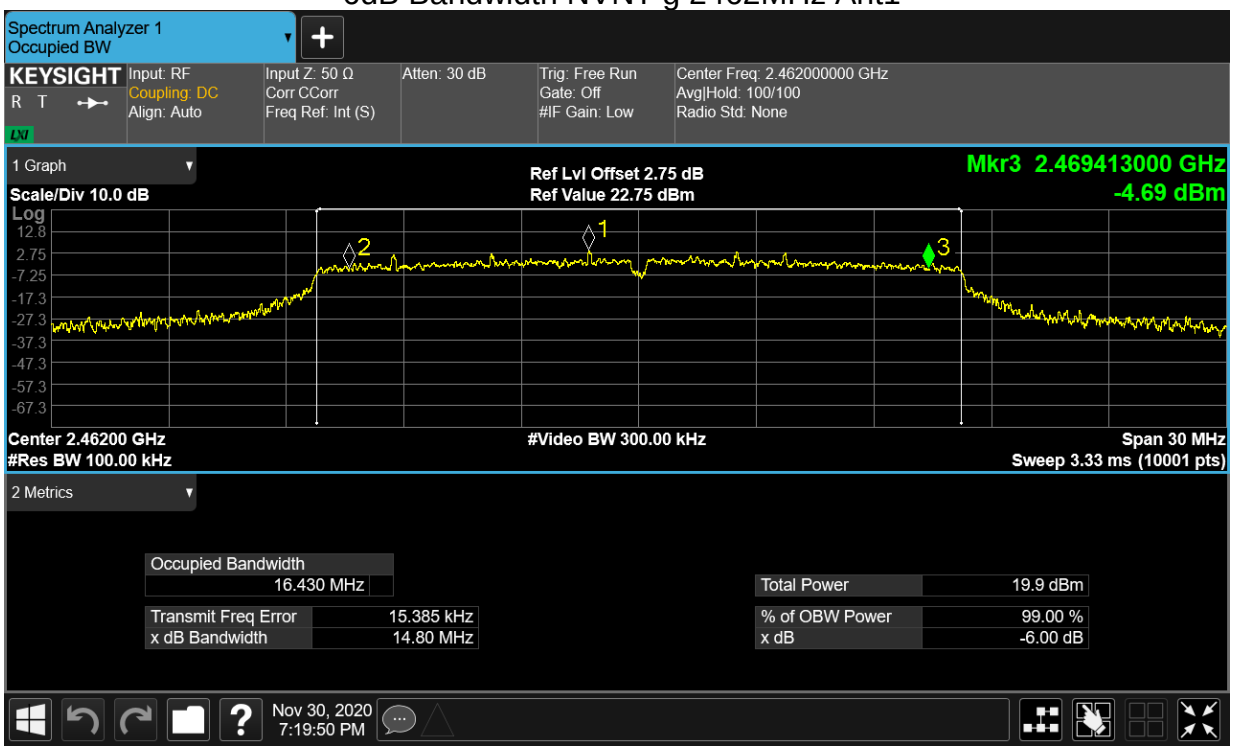
-6dB Bandwidth NVNT g 2412MHz Ant1



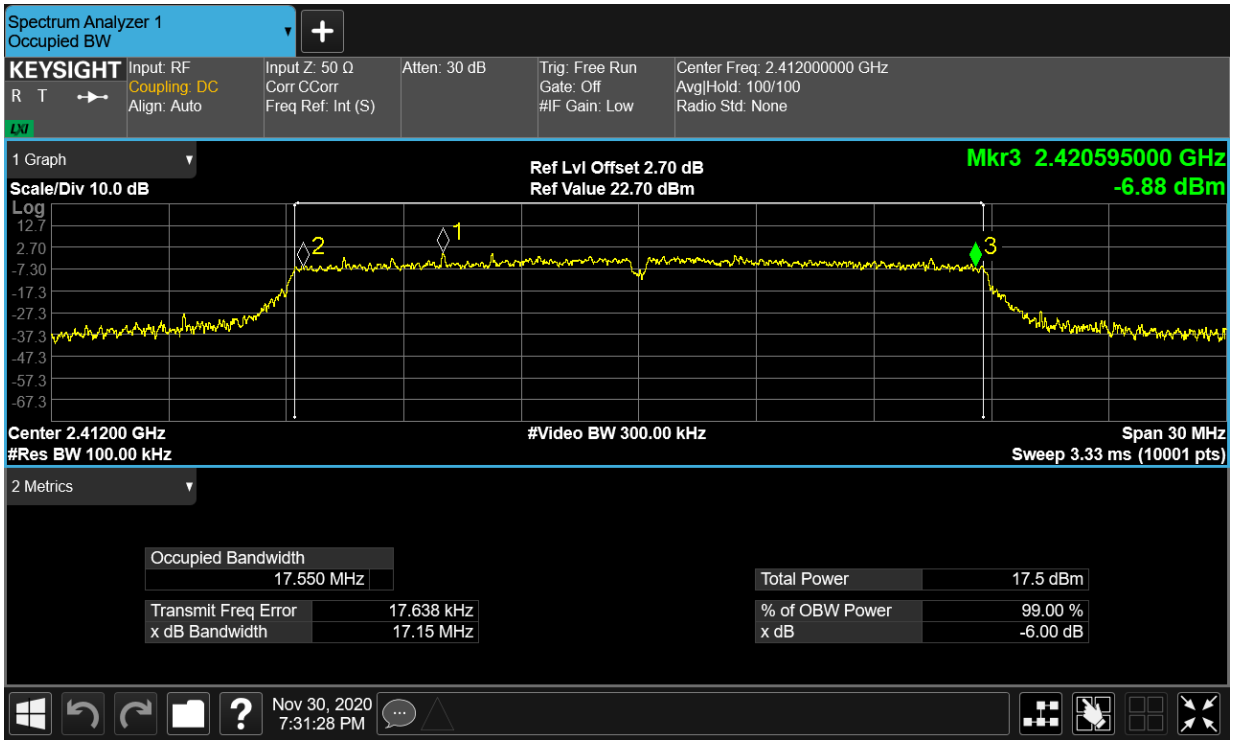
-6dB Bandwidth NVNT g 2437MHz Ant1



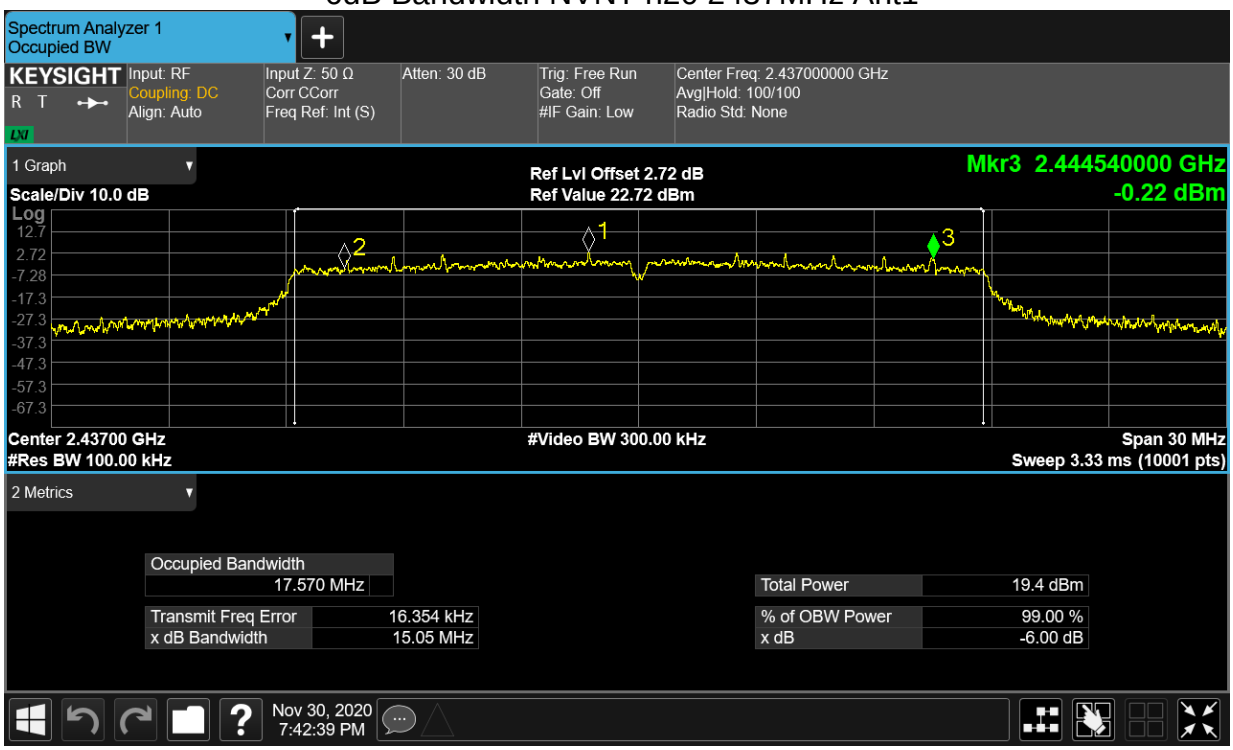
-6dB Bandwidth NVNT g 2462MHz Ant1



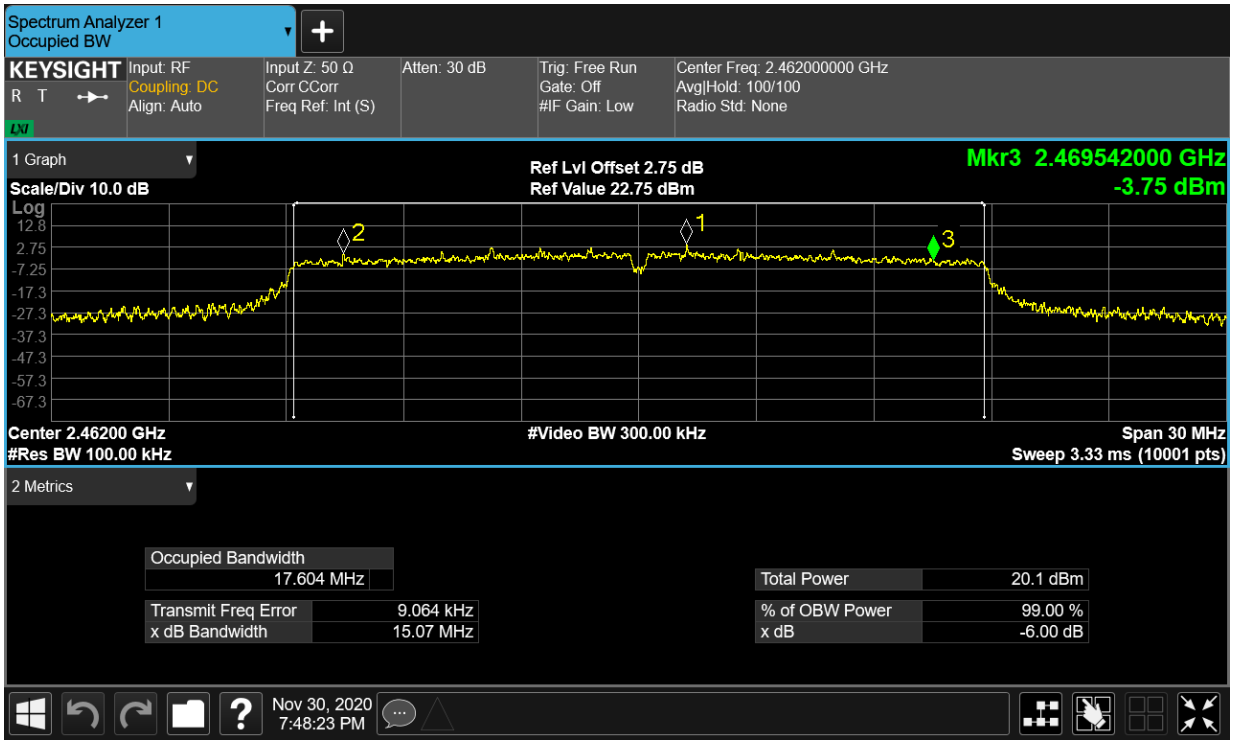
-6dB Bandwidth NVNT n20 2412MHz Ant1



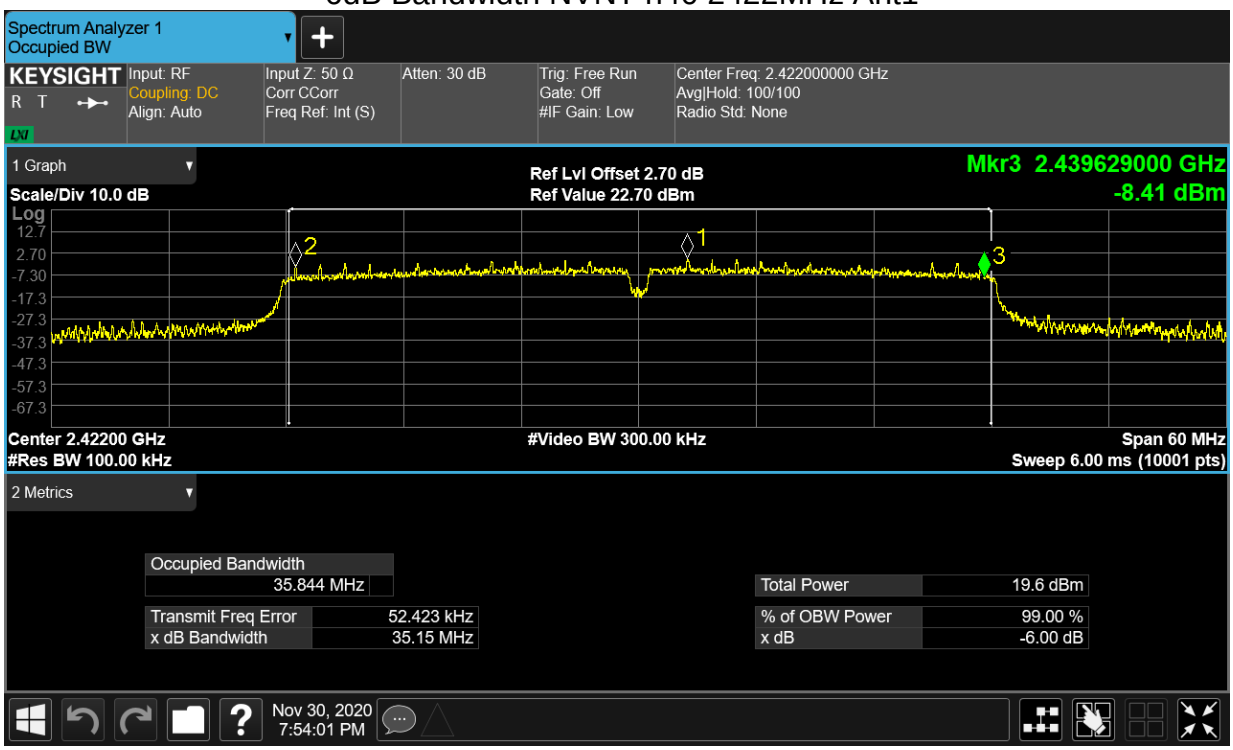
-6dB Bandwidth NVNT n20 2437MHz Ant1



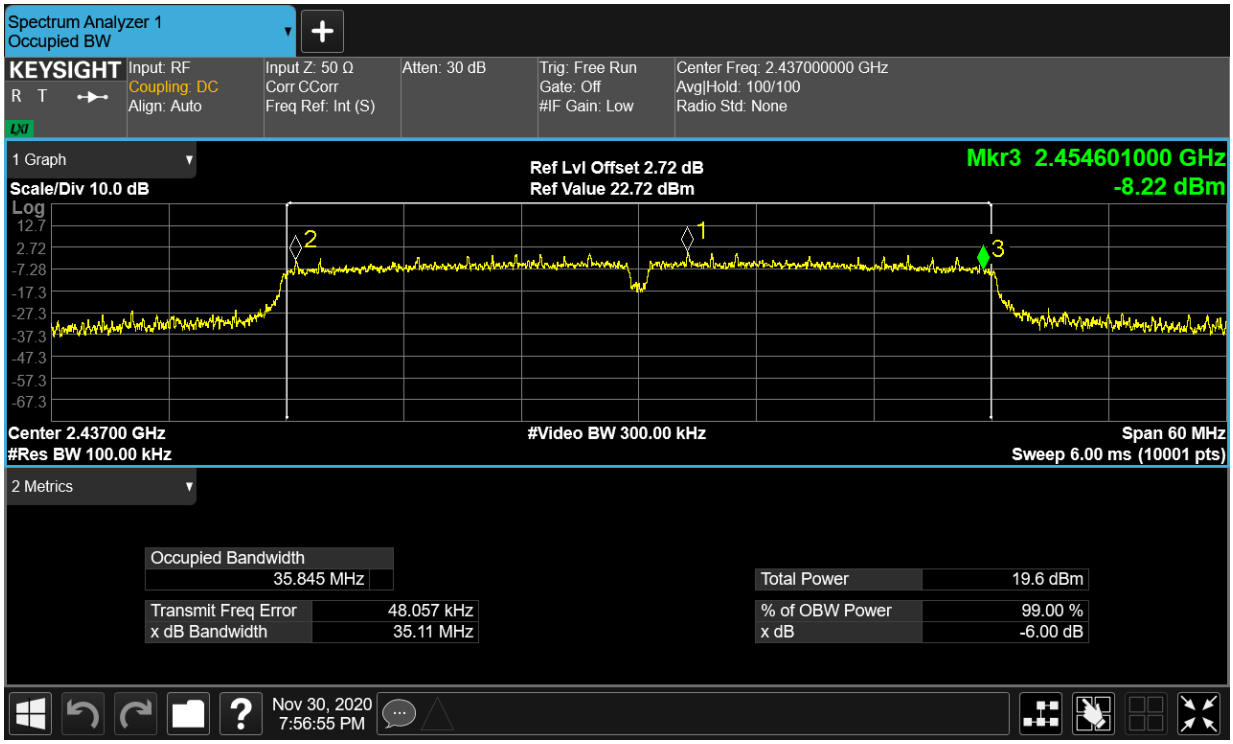
-6dB Bandwidth NVNT n20 2462MHz Ant1



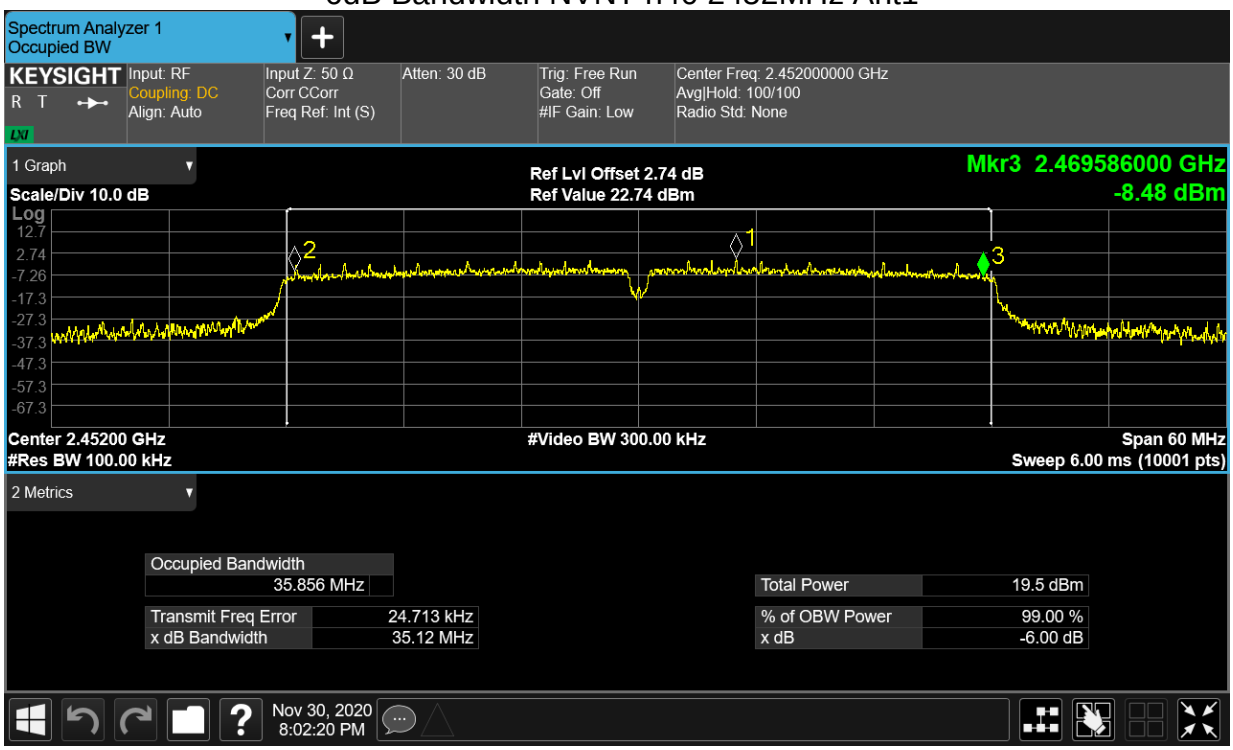
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

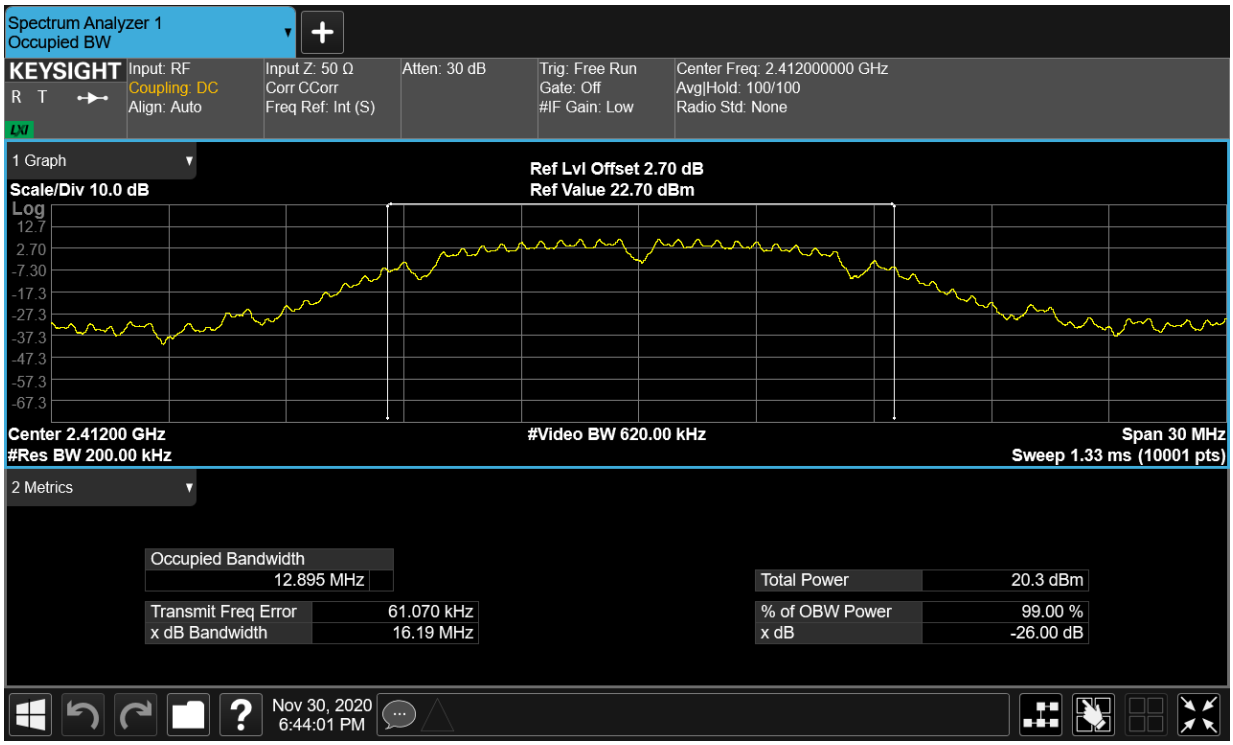


Occupied Channel Bandwidth

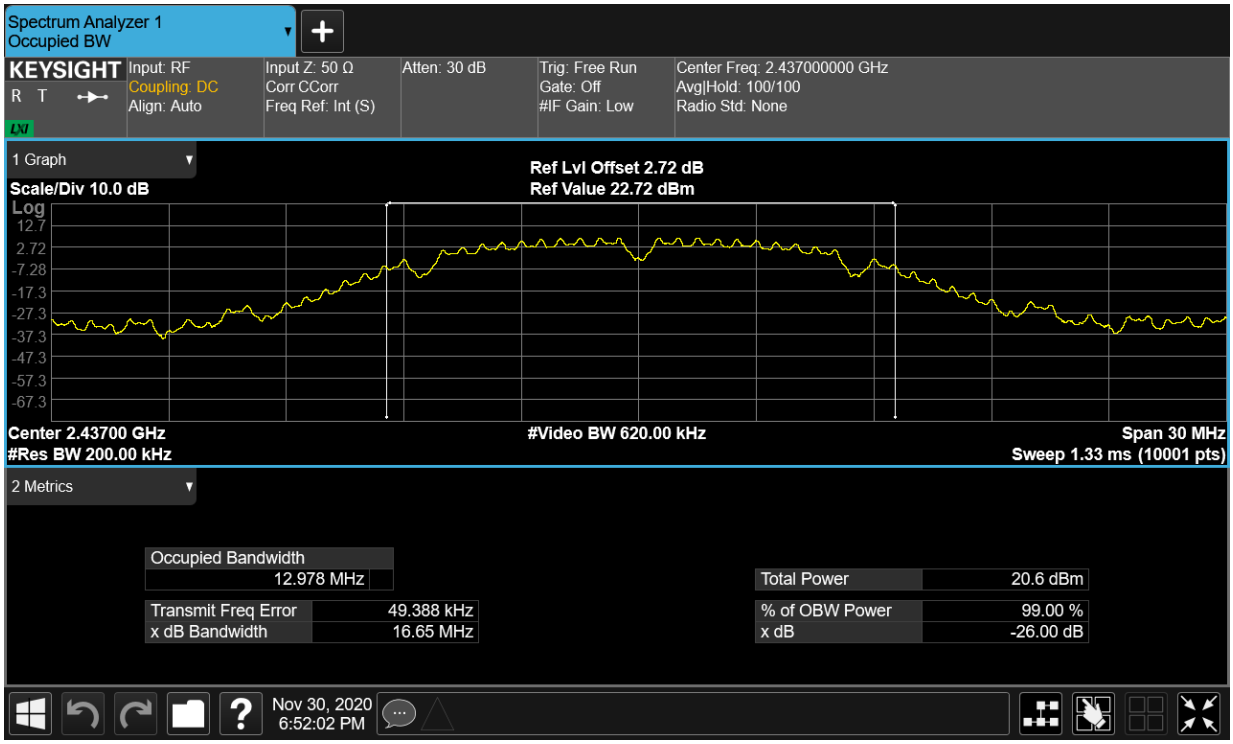
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.89539121
NVNT	b	2437	Ant1	12.9778721
NVNT	b	2462	Ant1	12.98668149
NVNT	g	2412	Ant1	16.48884358
NVNT	g	2437	Ant1	16.59467597
NVNT	g	2462	Ant1	16.55363113

NVNT	n20	2412	Ant1	17.58357675
NVNT	n20	2437	Ant1	17.62574914
NVNT	n20	2462	Ant1	17.64431099
NVNT	n40	2422	Ant1	35.99914758
NVNT	n40	2437	Ant1	35.96798509
NVNT	n40	2452	Ant1	35.99509843

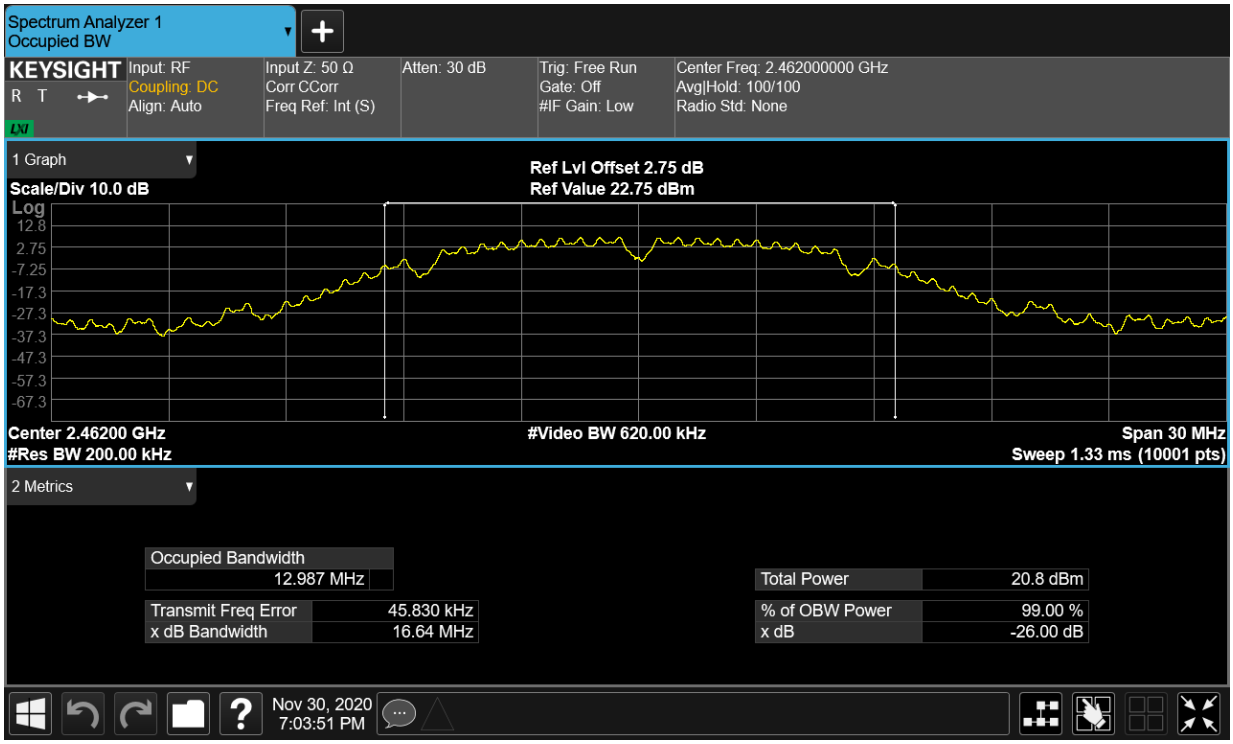
OBW NVNT b 2412MHz Ant1



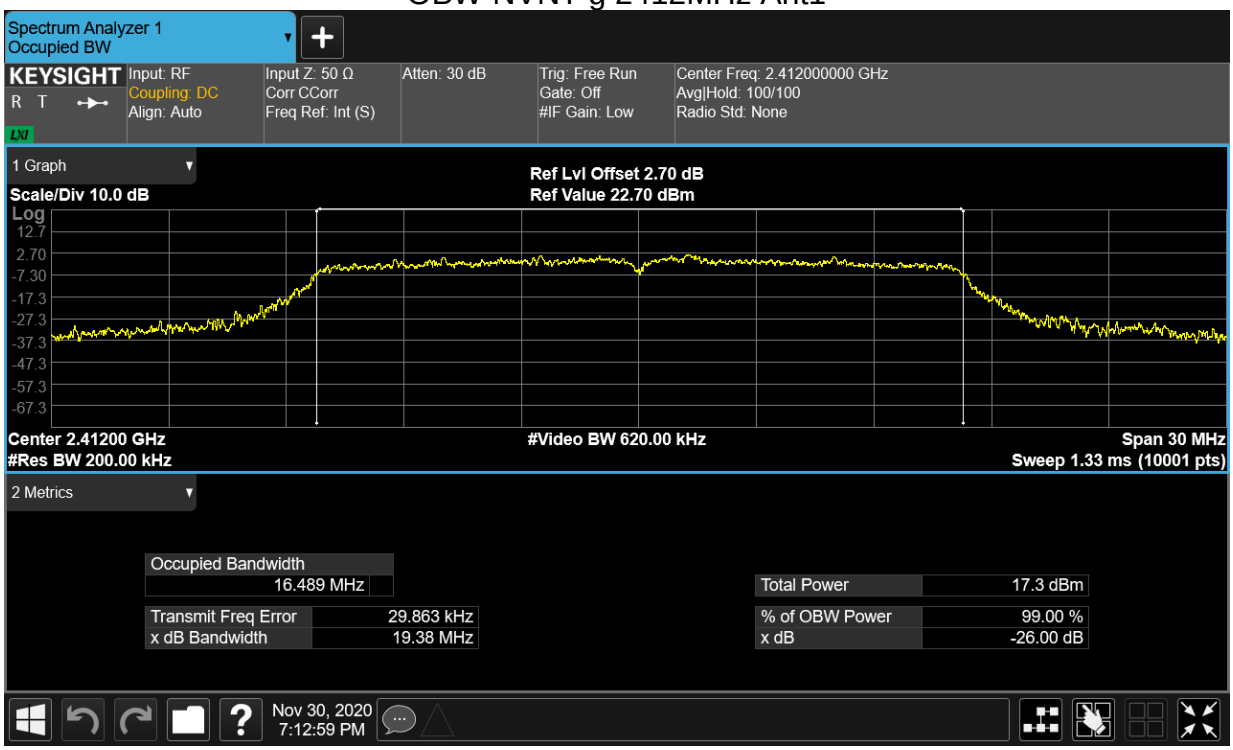
OBW NVNT b 2437MHz Ant1



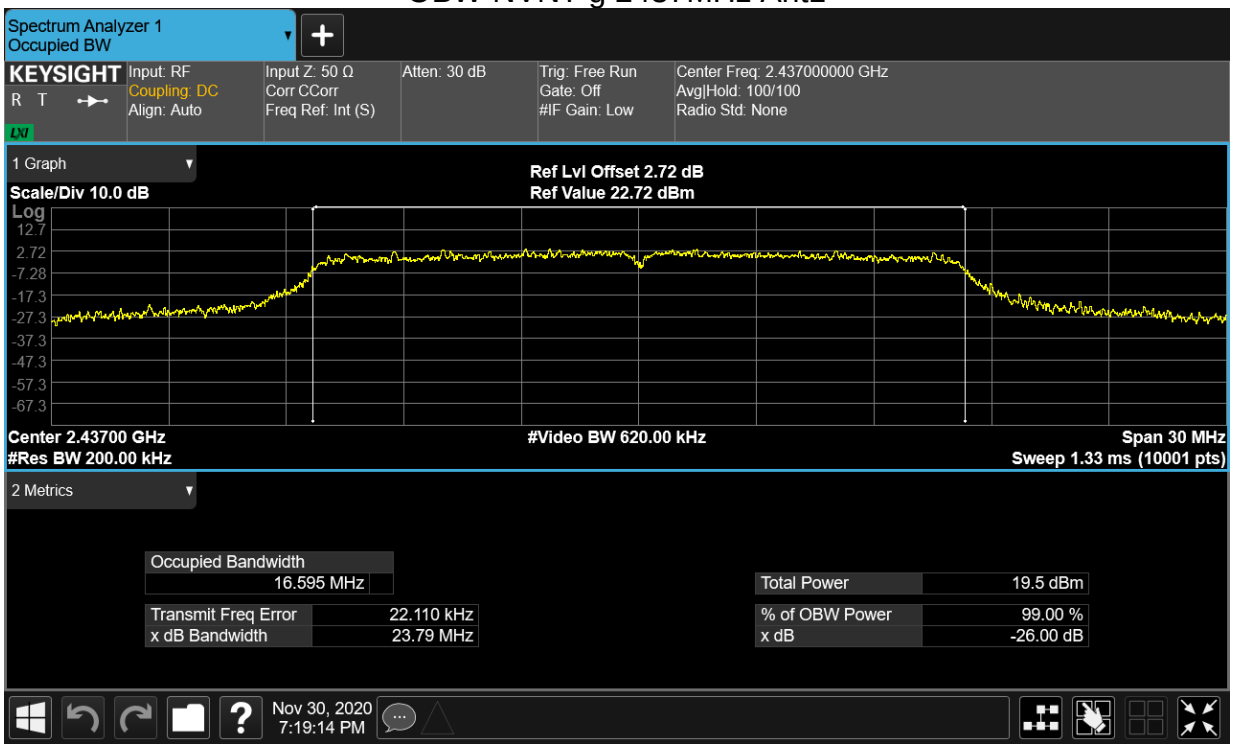
OBW NVNT b 2462MHz Ant1



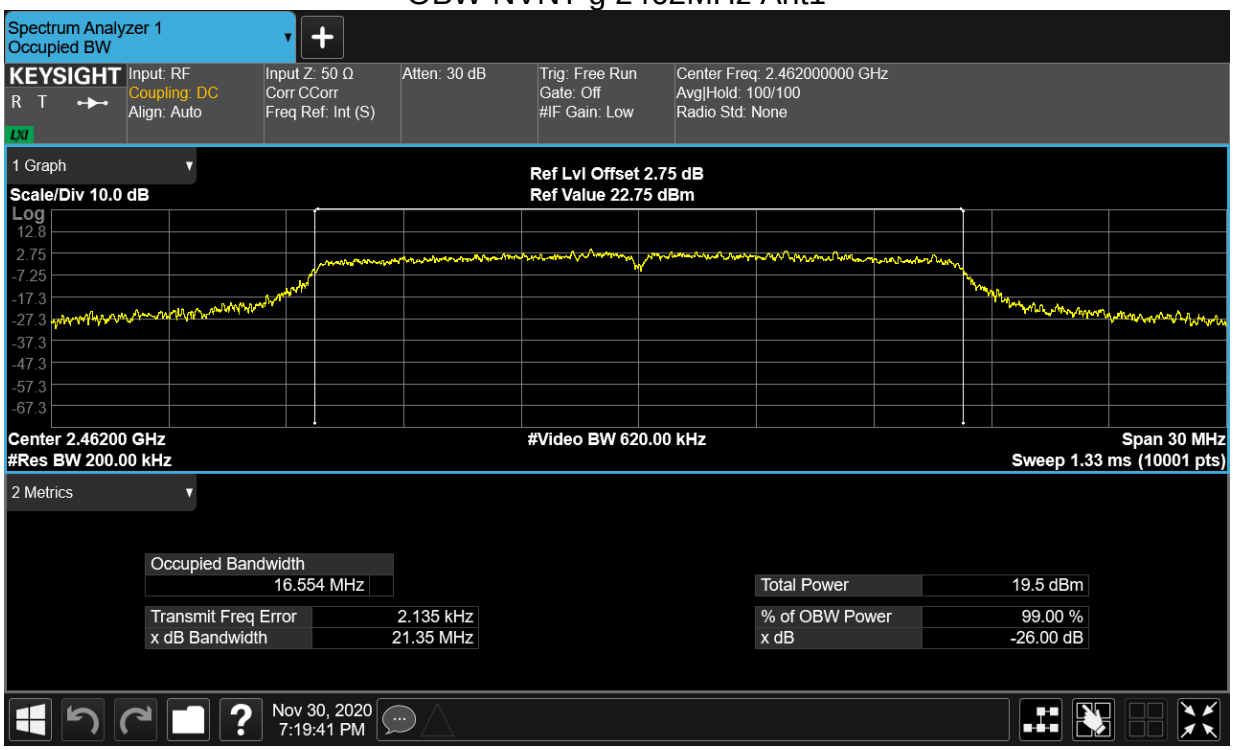
OBW NVNT g 2412MHz Ant1



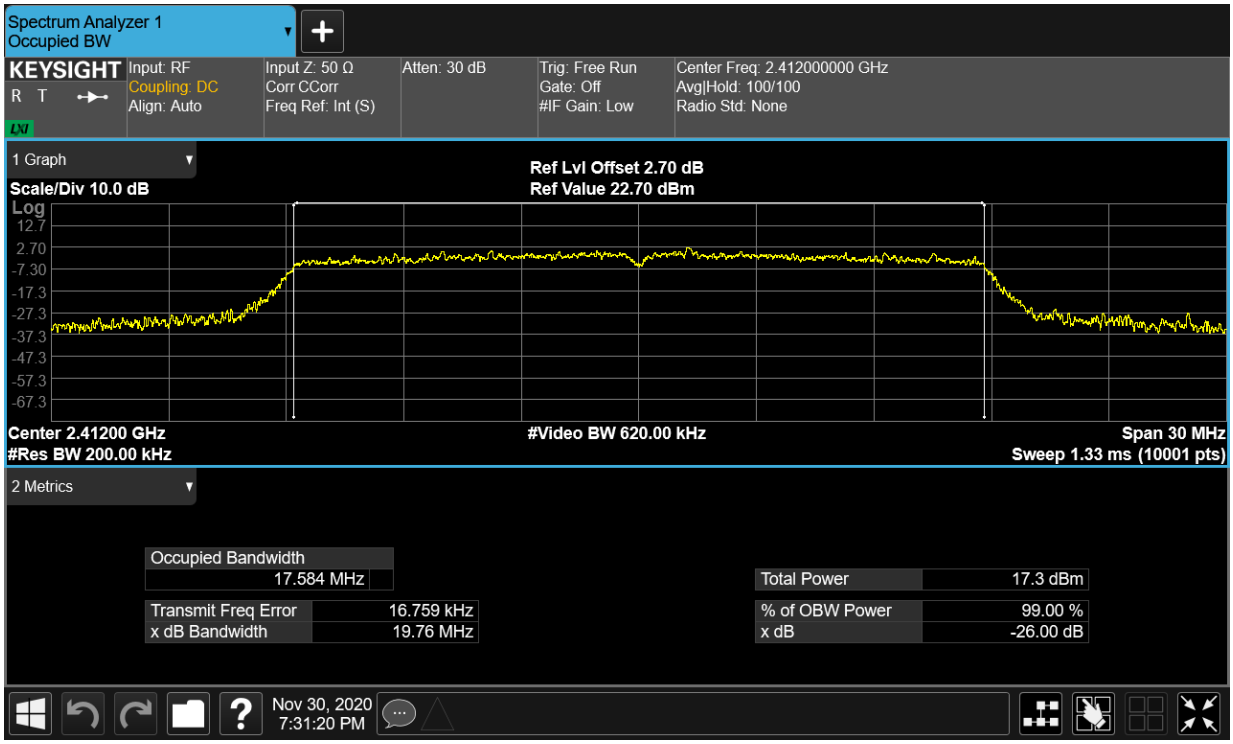
OBW NVNT g 2437MHz Ant1



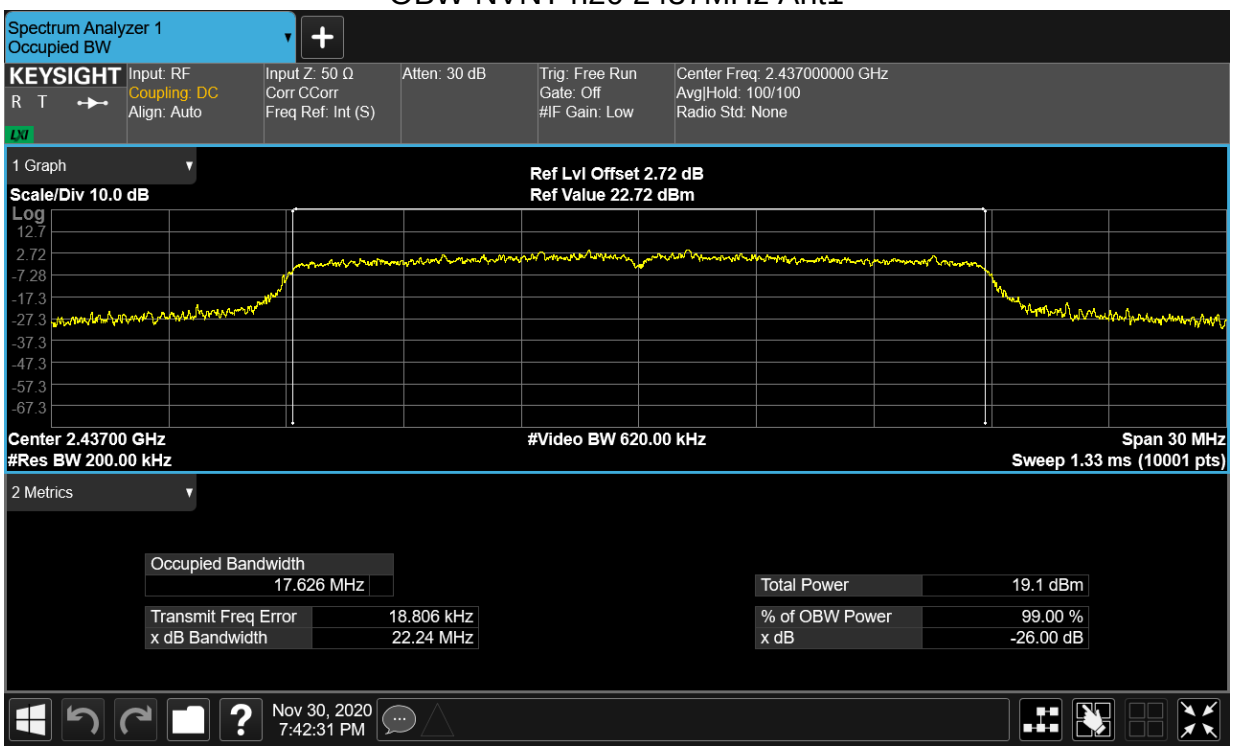
OBW NVNT g 2462MHz Ant1



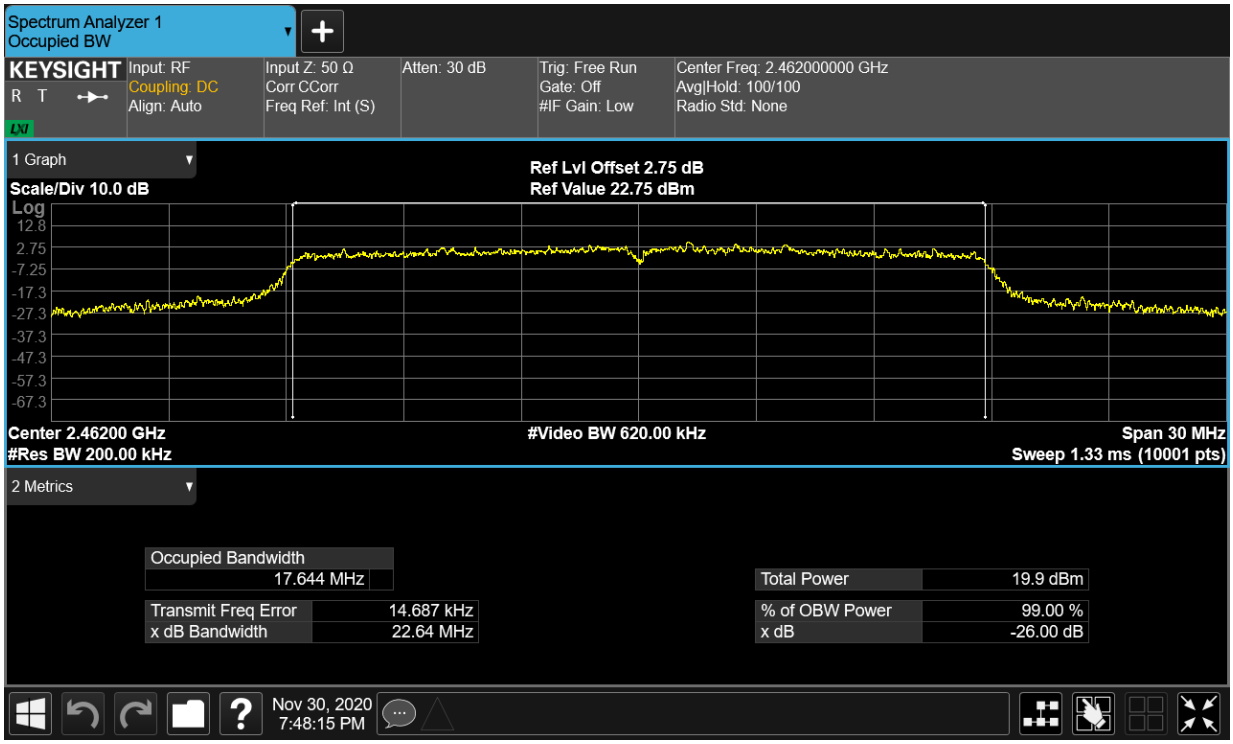
OBW NVNT n20 2412MHz Ant1



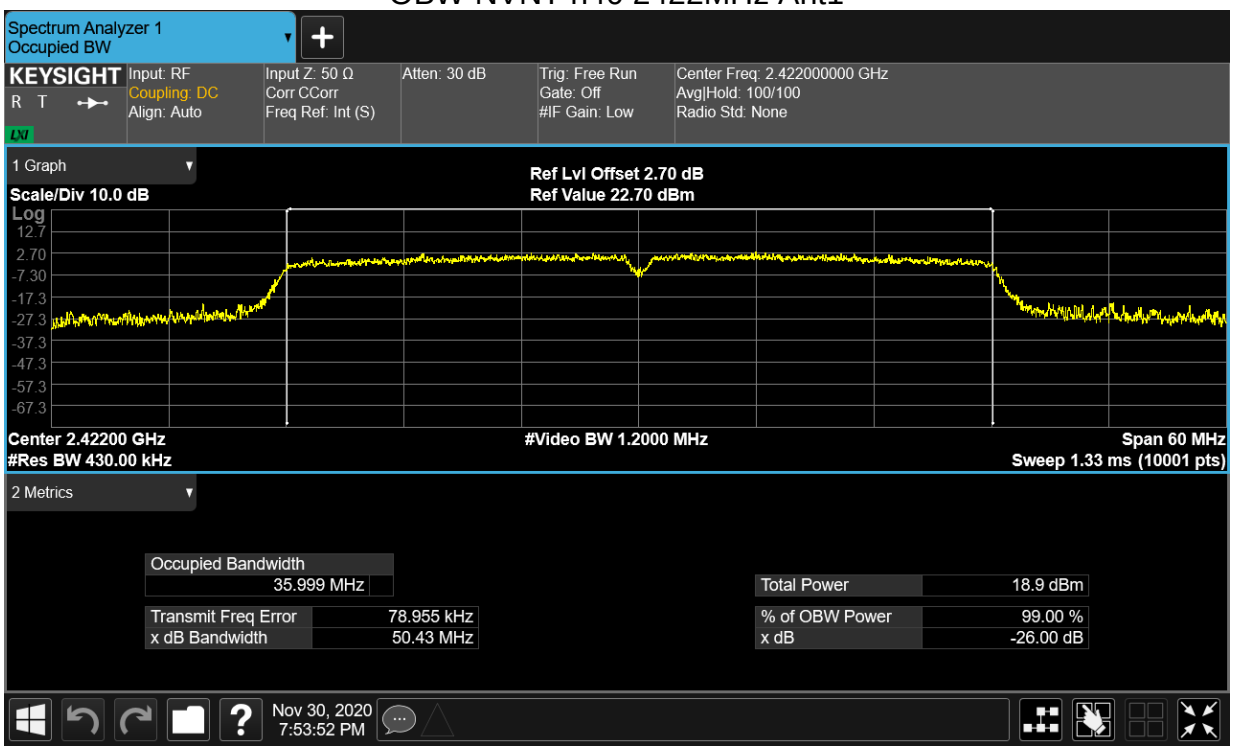
OBW NVNT n20 2437MHz Ant1



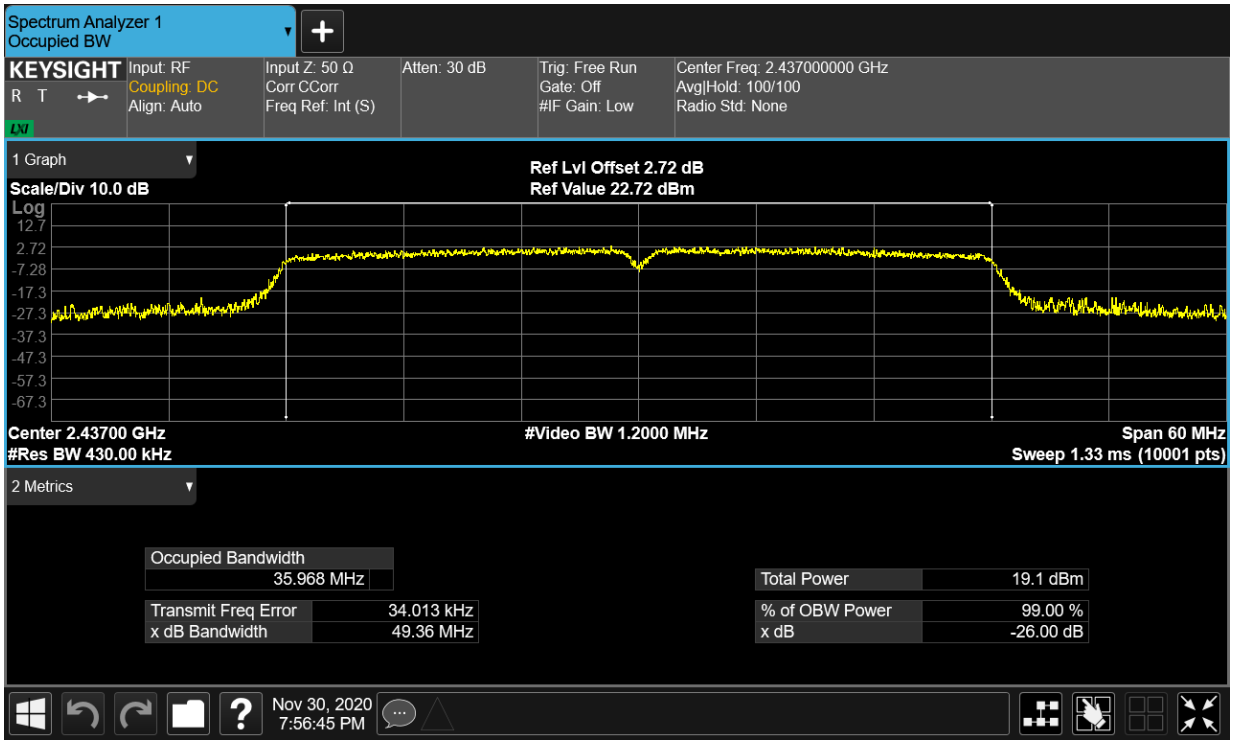
OBW NVNT n20 2462MHz Ant1



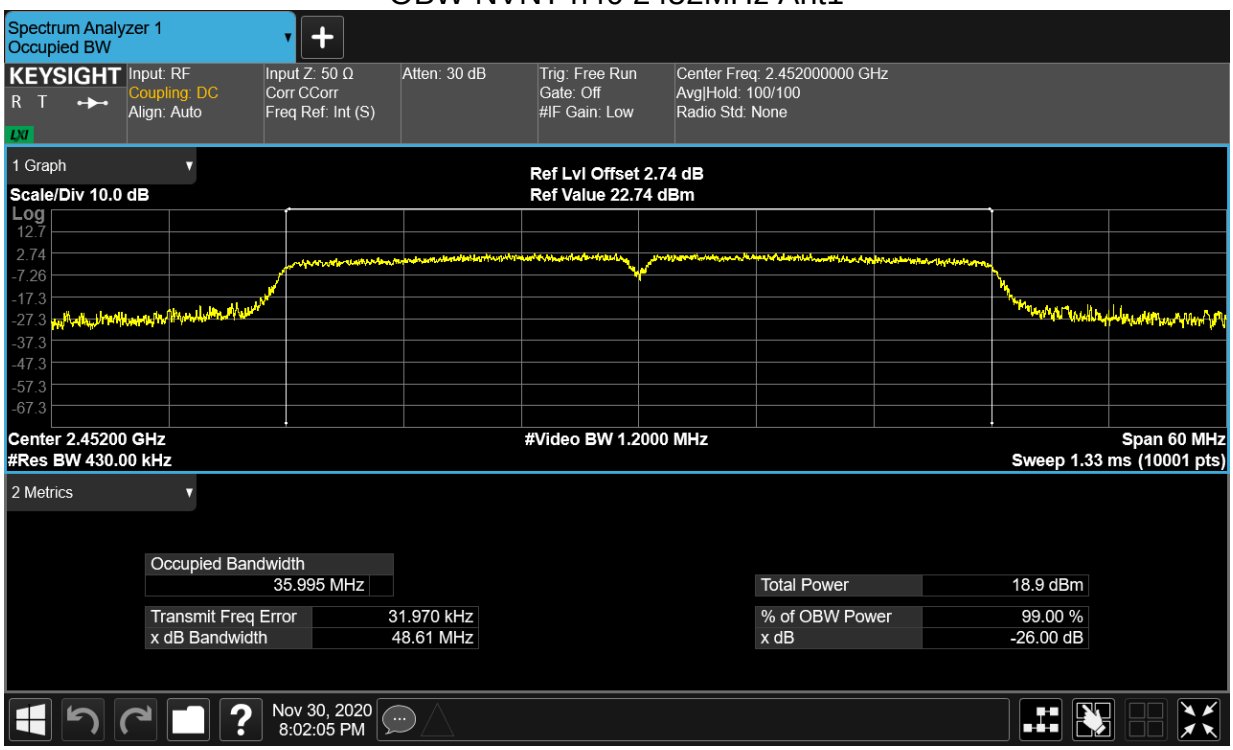
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1

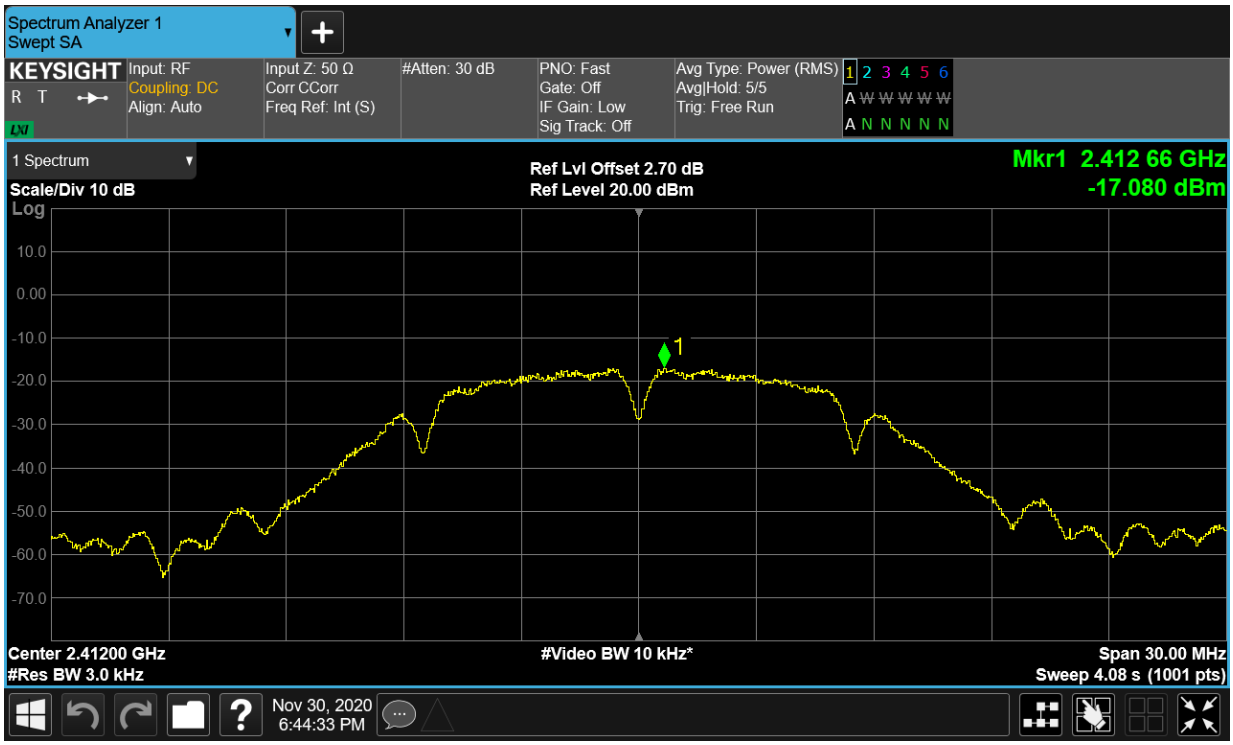


Maximum Power Spectral Density Level

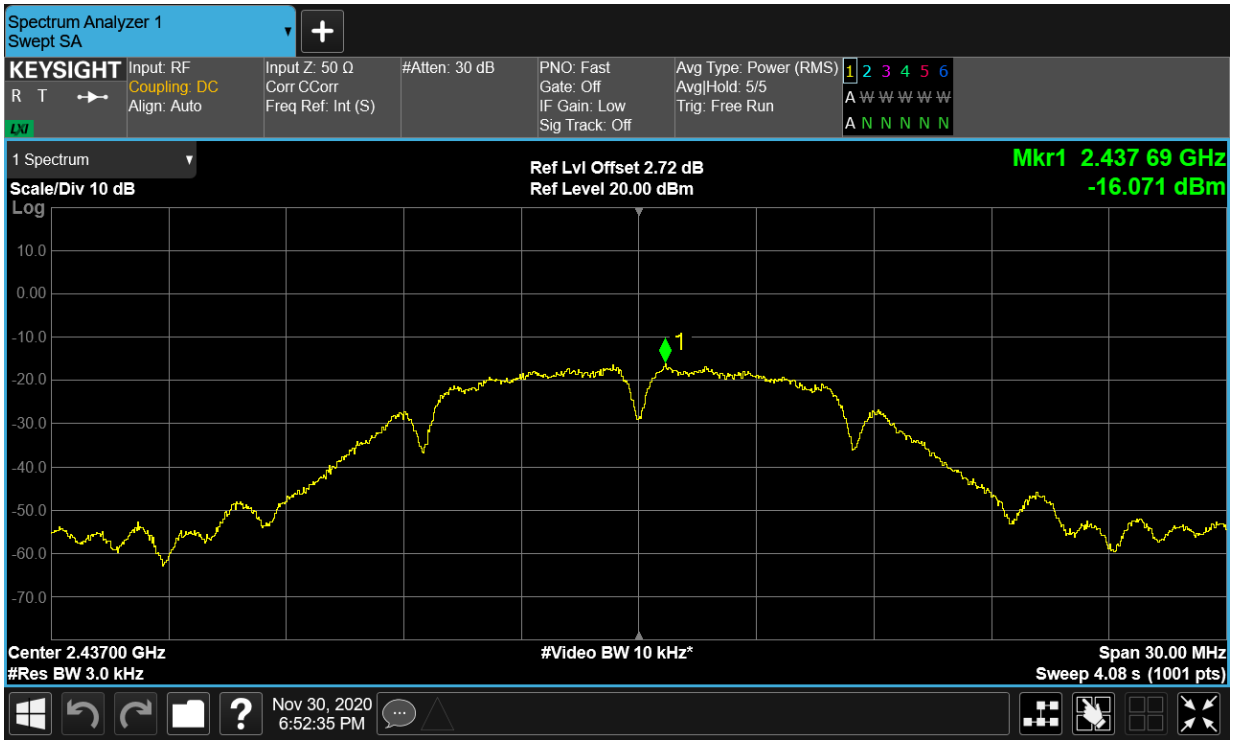
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-17.08	8	Pass
NVNT	b	2437	Ant1	-16.071	8	Pass
NVNT	b	2462	Ant1	-16.175	8	Pass
NVNT	g	2412	Ant1	-21.671	8	Pass
NVNT	g	2437	Ant1	-19.427	8	Pass
NVNT	g	2462	Ant1	-19.572	8	Pass

NVNT	n20	2412	Ant1	-21.981	8	Pass
NVNT	n20	2437	Ant1	-19.971	8	Pass
NVNT	n20	2462	Ant1	-19.852	8	Pass
NVNT	n40	2422	Ant1	-23.673	8	Pass
NVNT	n40	2437	Ant1	-24.025	8	Pass
NVNT	n40	2452	Ant1	-23.953	8	Pass

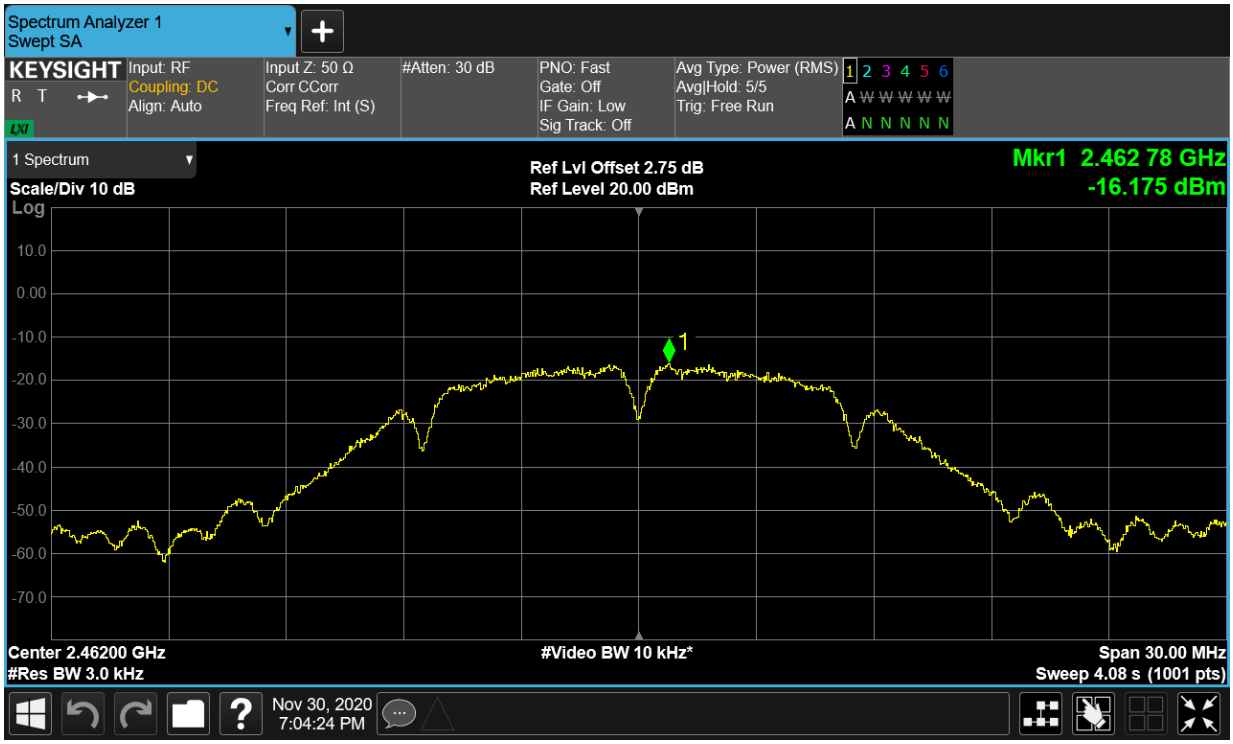
PSD NVNT b 2412MHz Ant1



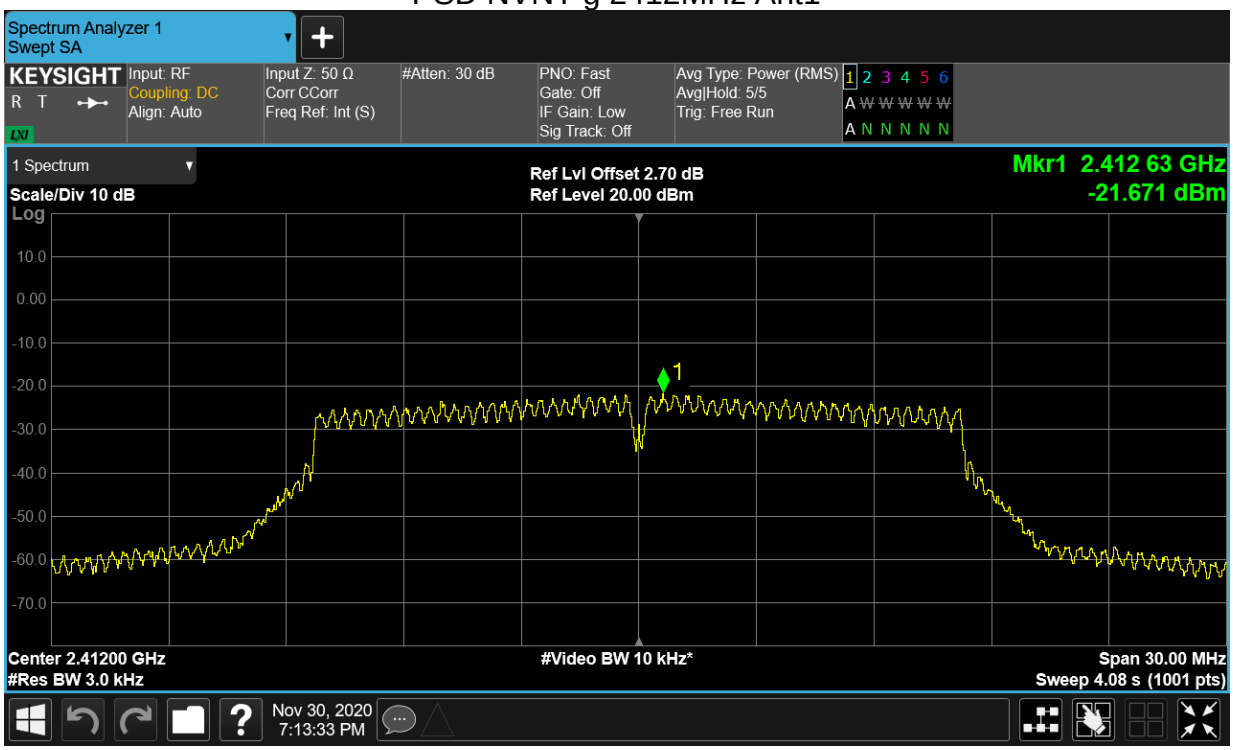
PSD NVNT b 2437MHz Ant1



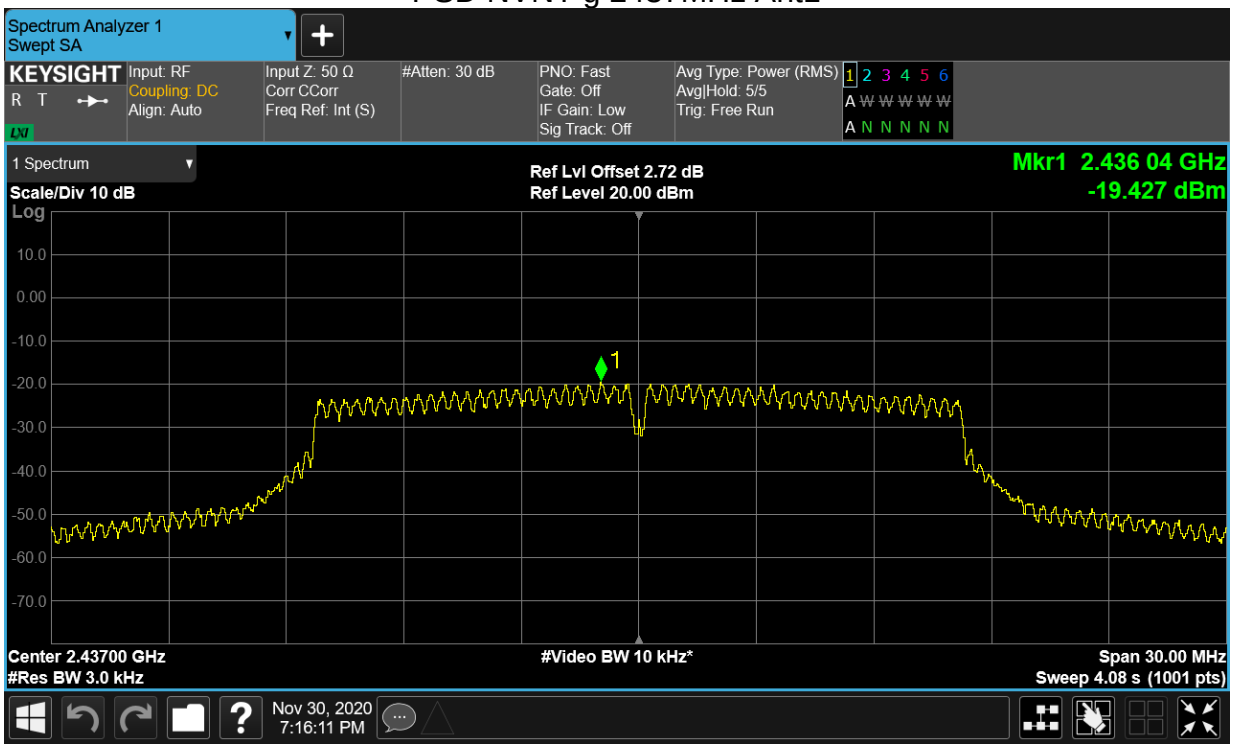
PSD NVNT b 2462MHz Ant1



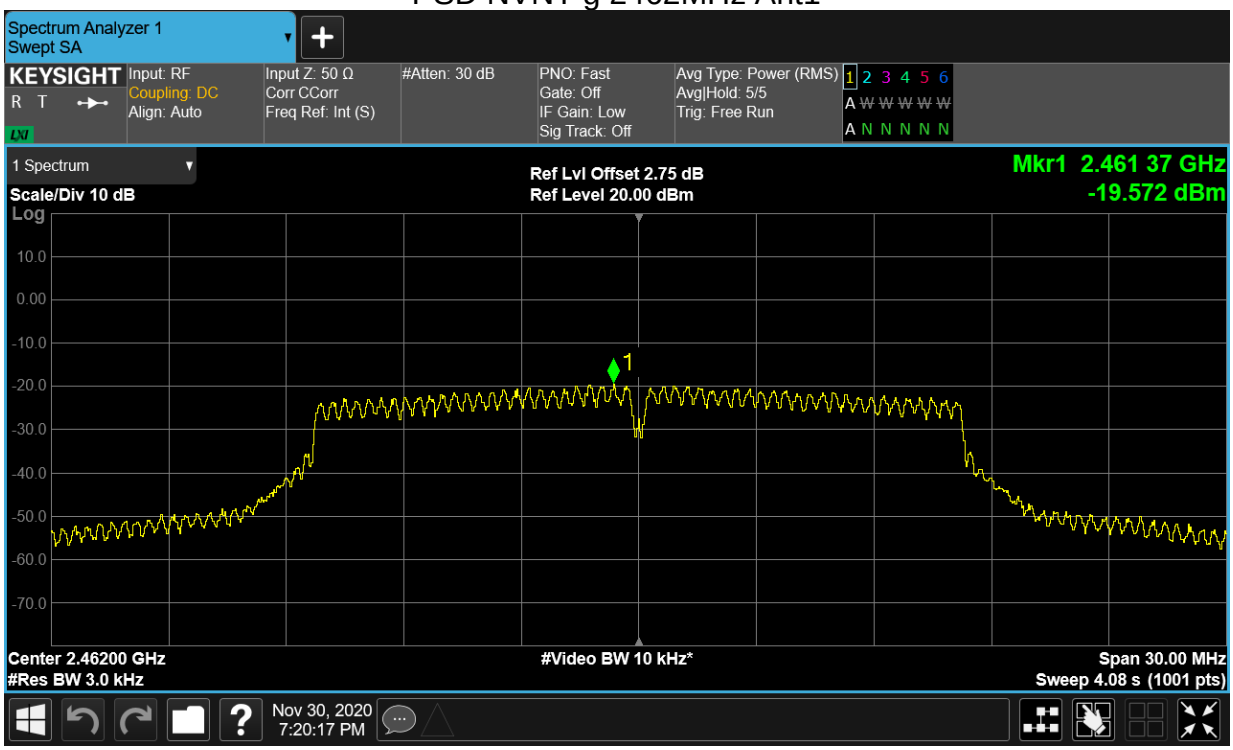
PSD NVNT g 2412MHz Ant1



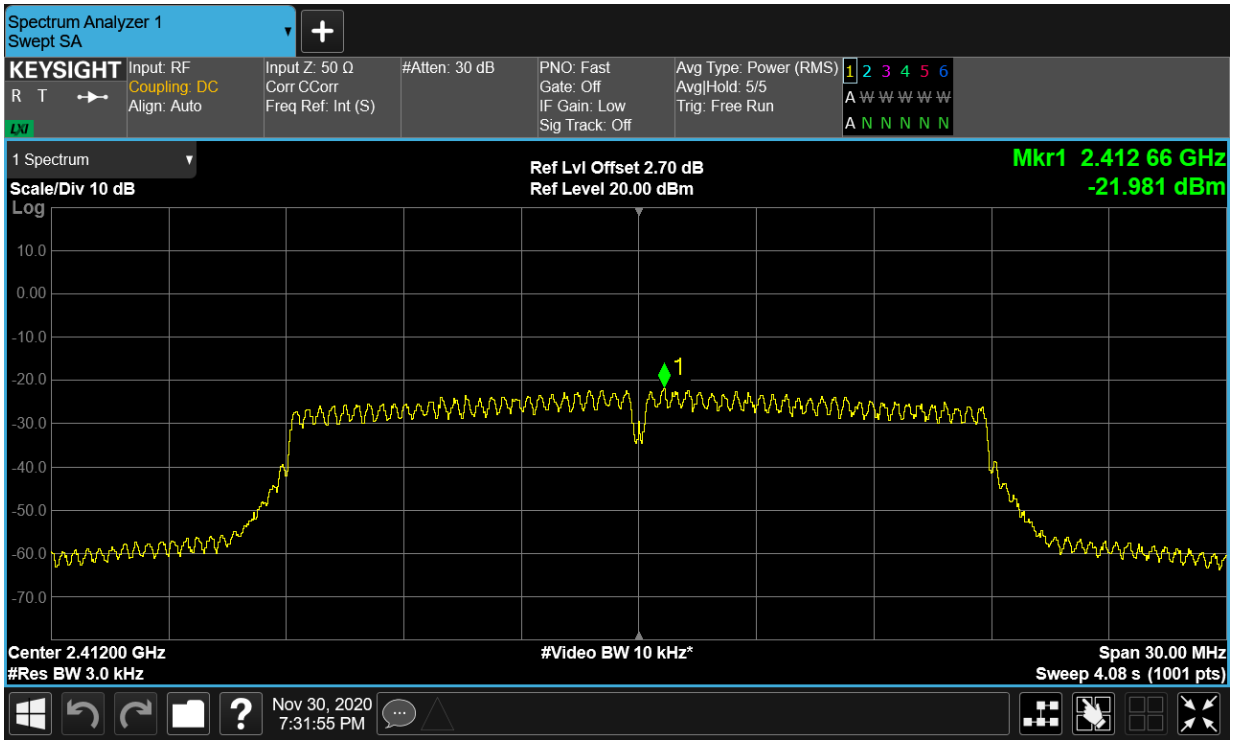
PSD NVNT g 2437MHz Ant1



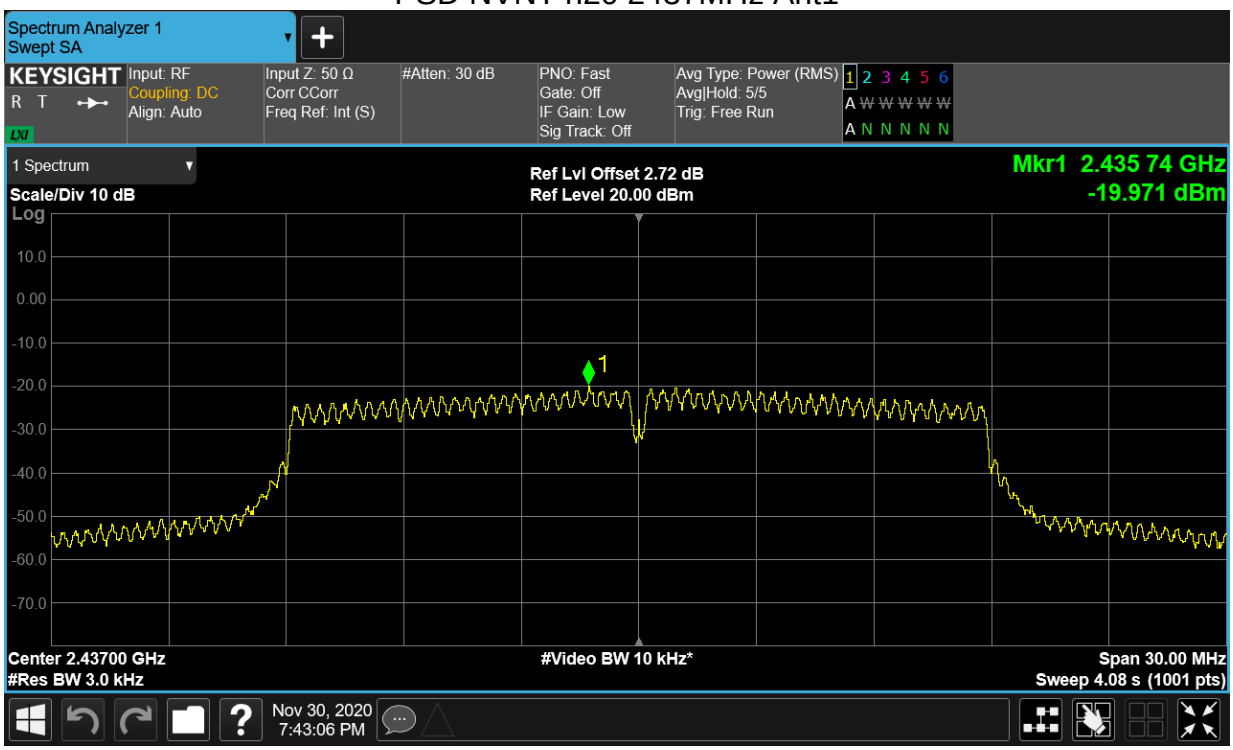
PSD NVNT g 2462MHz Ant1



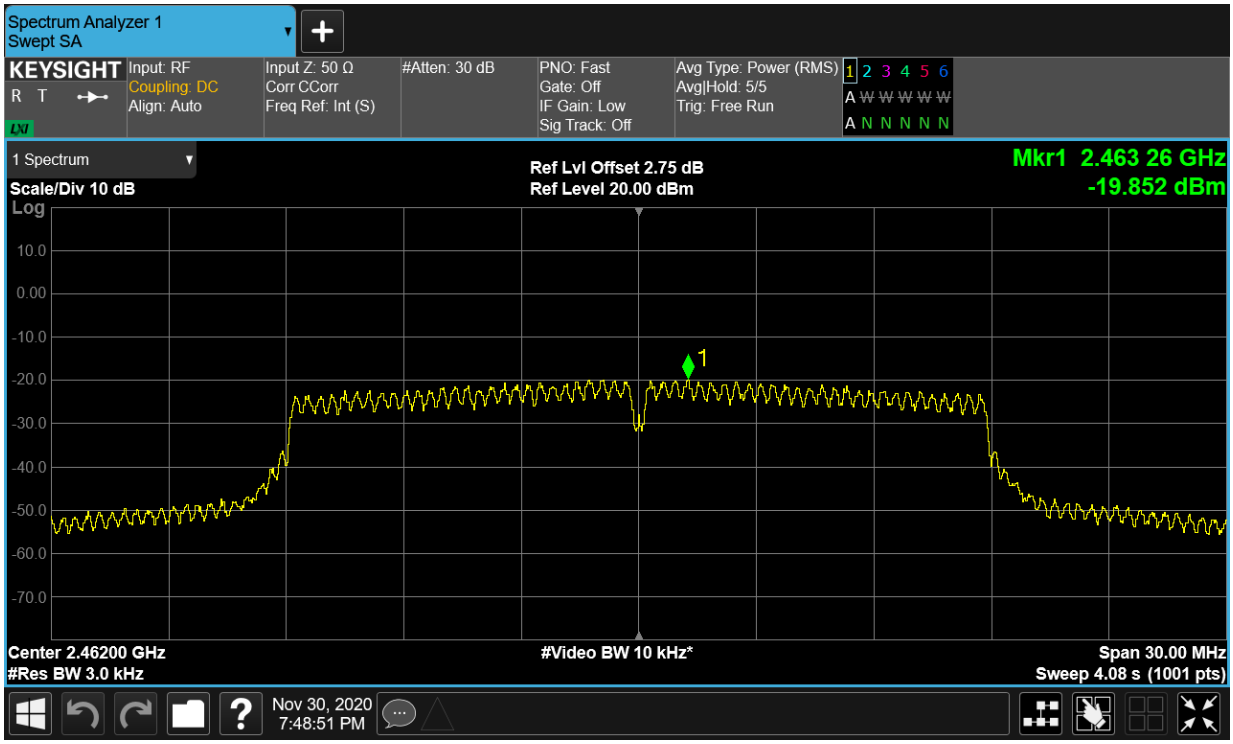
PSD NVNT n20 2412MHz Ant1



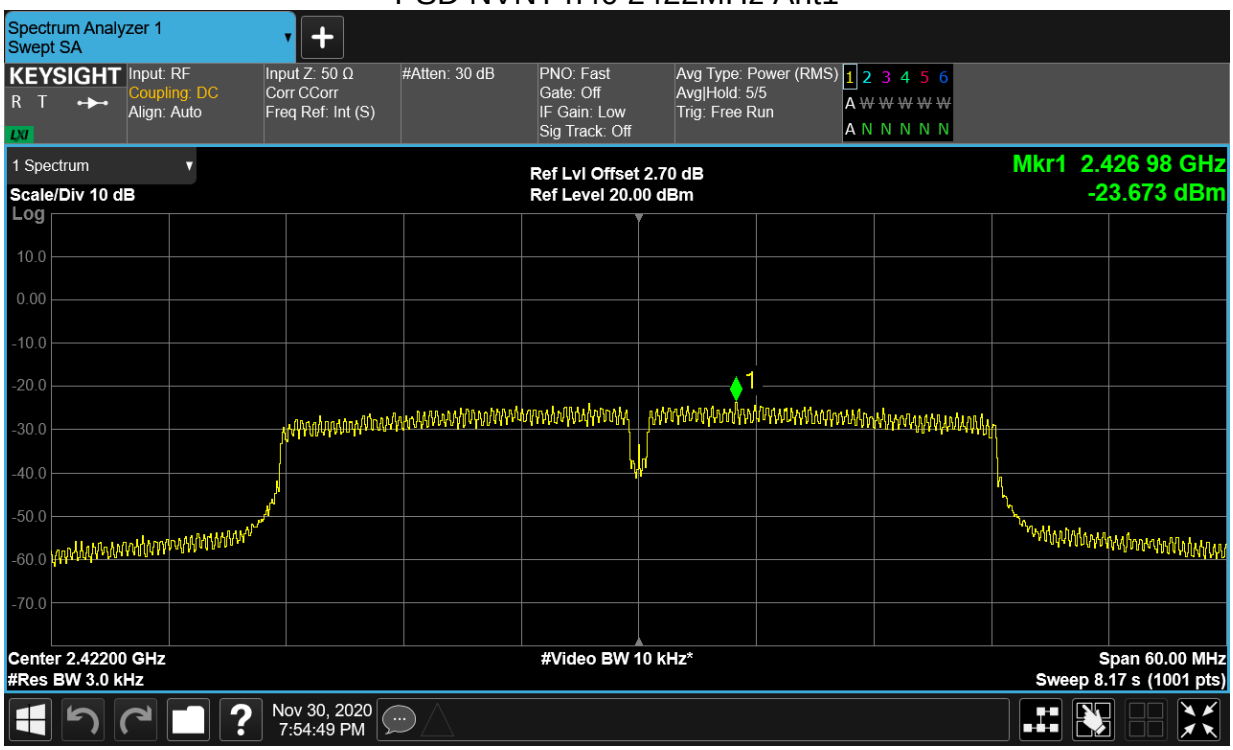
PSD NVNT n20 2437MHz Ant1



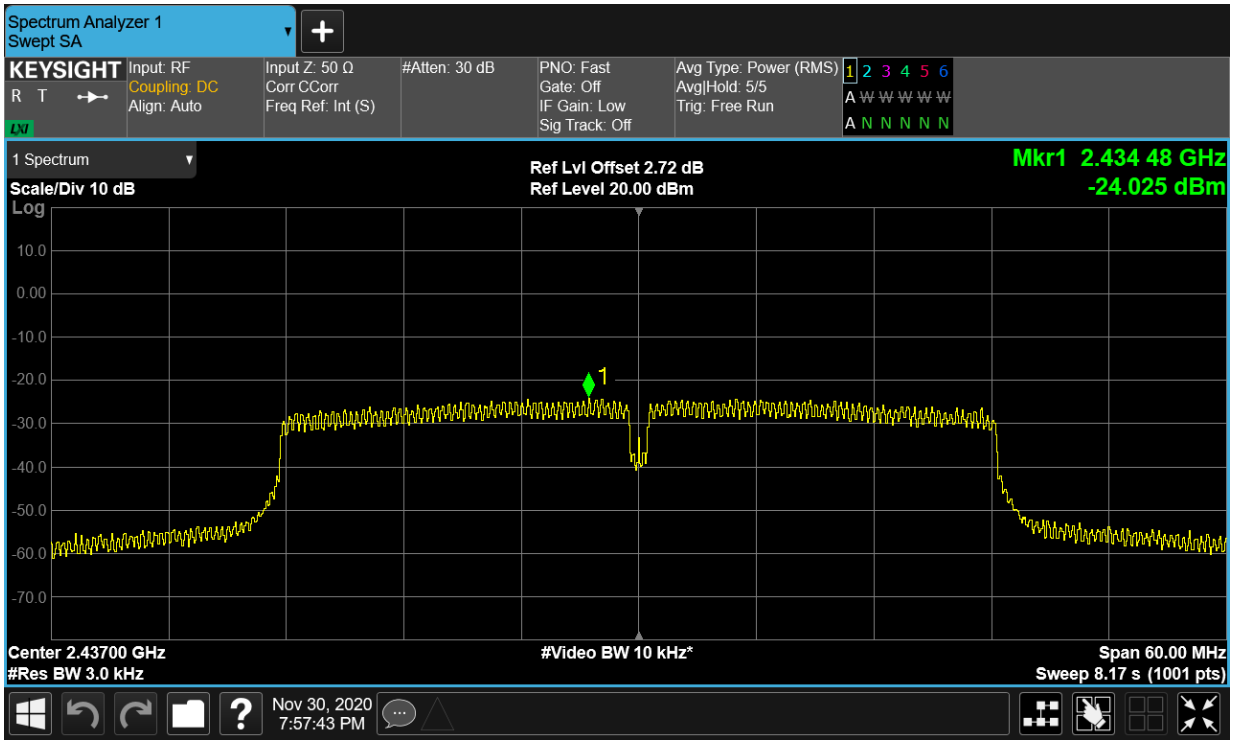
PSD NVNT n20 2462MHz Ant1



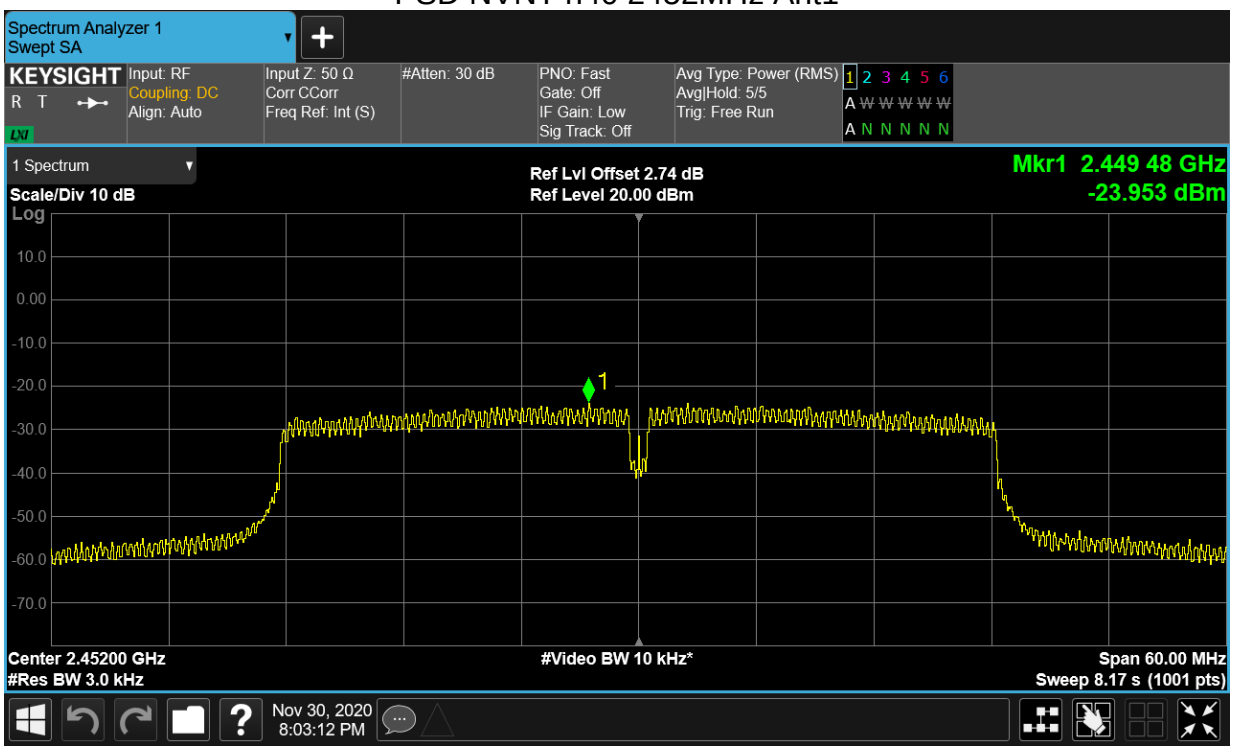
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

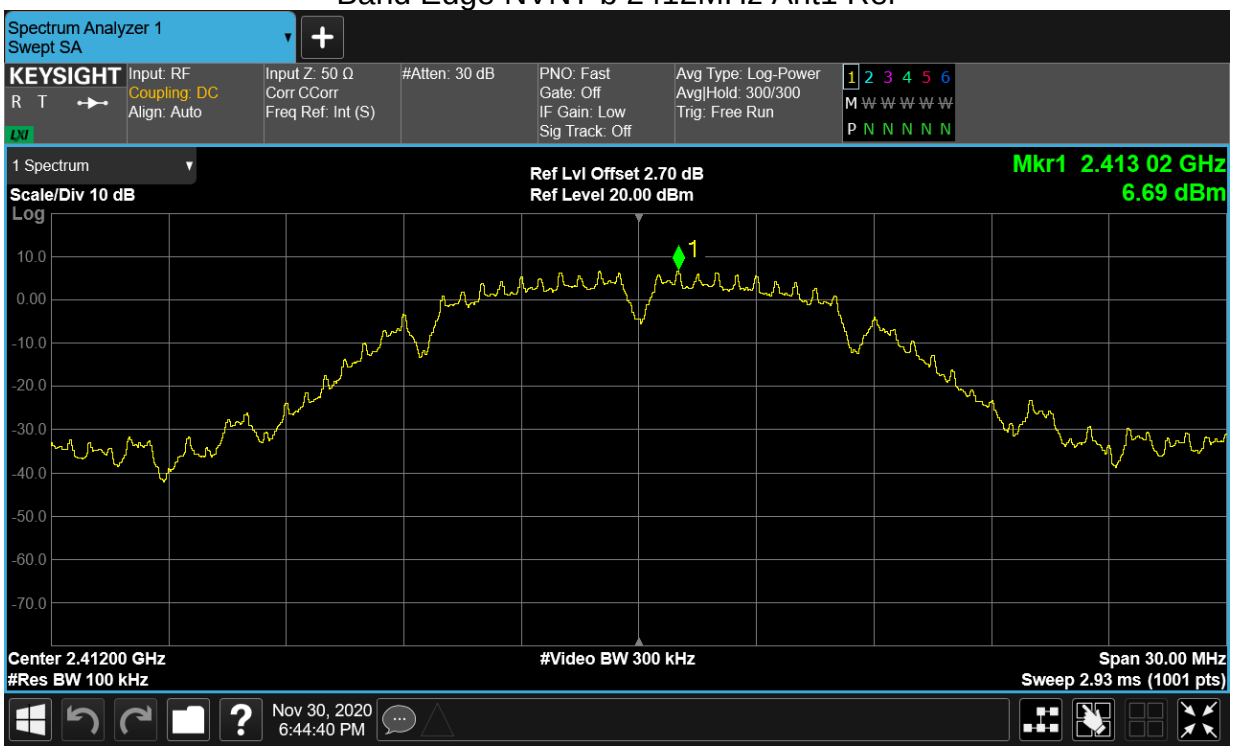


Band Edge

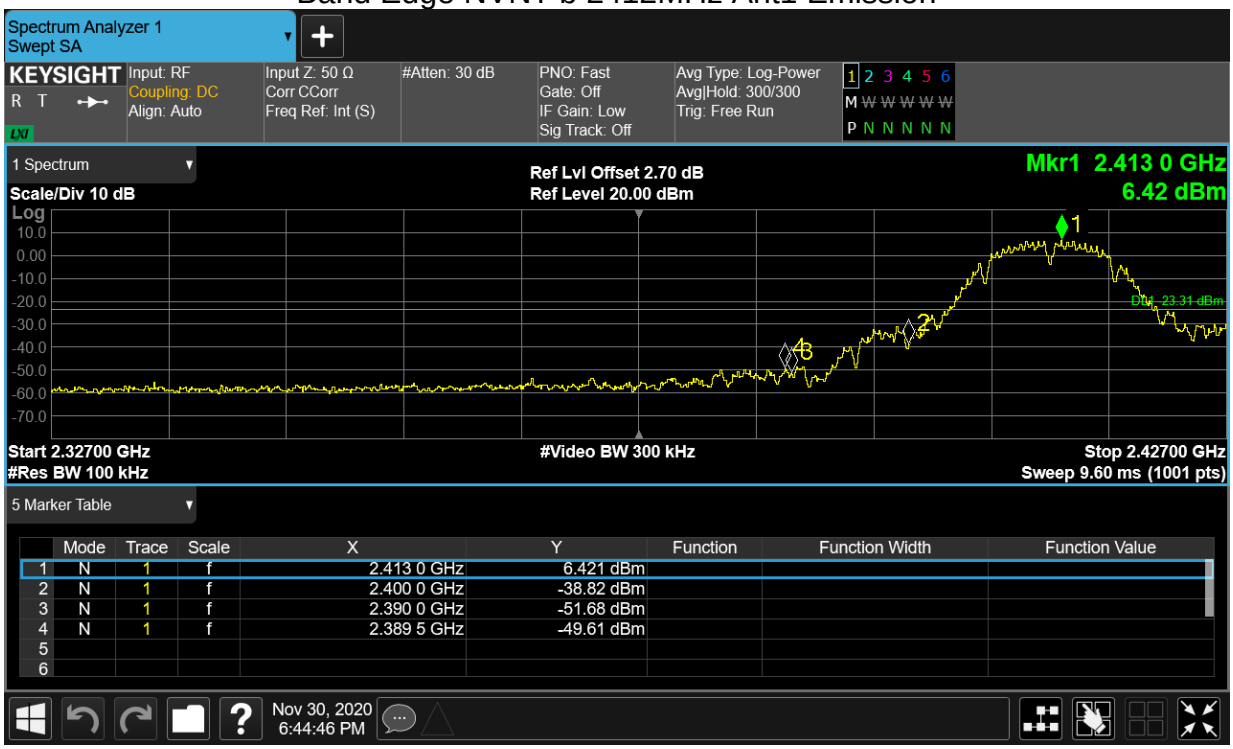
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.29	-30	Pass
NVNT	b	2462	Ant1	-53.94	-30	Pass
NVNT	g	2412	Ant1	-49.67	-30	Pass
NVNT	g	2462	Ant1	-42.29	-30	Pass
NVNT	n20	2412	Ant1	-47.4	-30	Pass
NVNT	n20	2462	Ant1	-40.26	-30	Pass

NVNT	n40	2422	Ant1	-31.95	-30	Pass
NVNT	n40	2452	Ant1	-30.29	-30	Pass

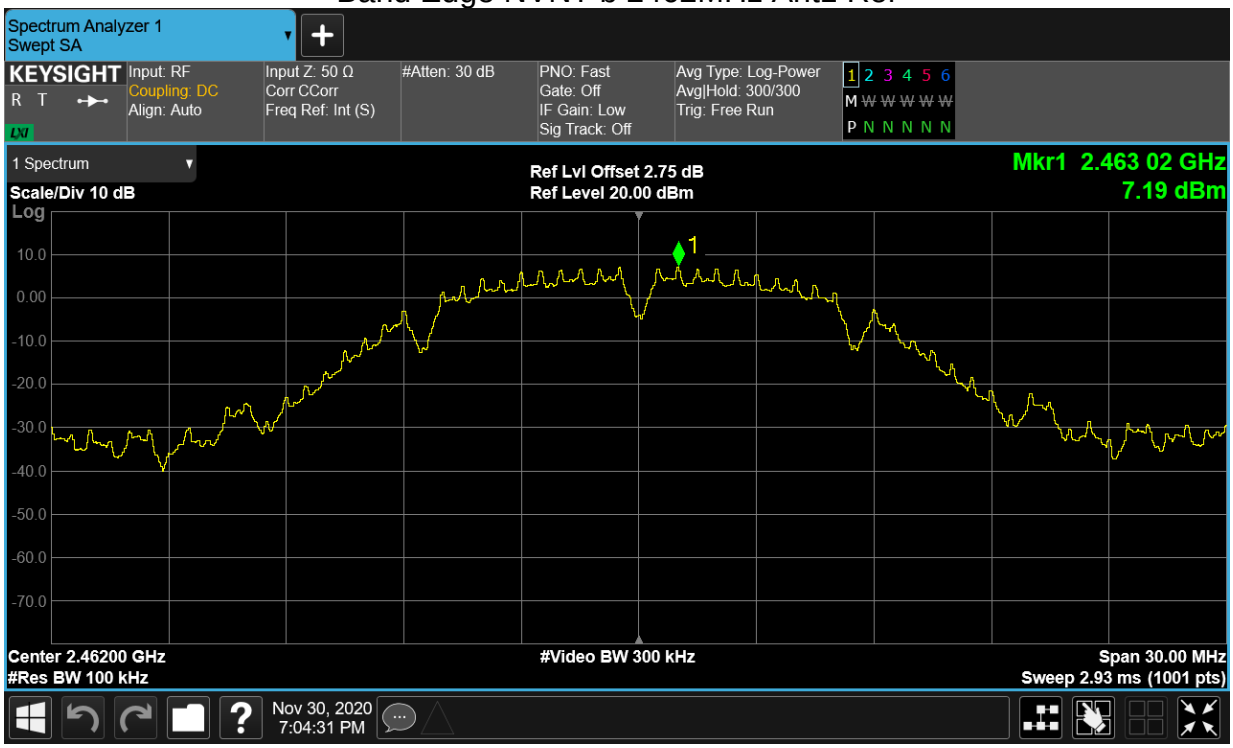
Band Edge NVNT b 2412MHz Ant1 Ref



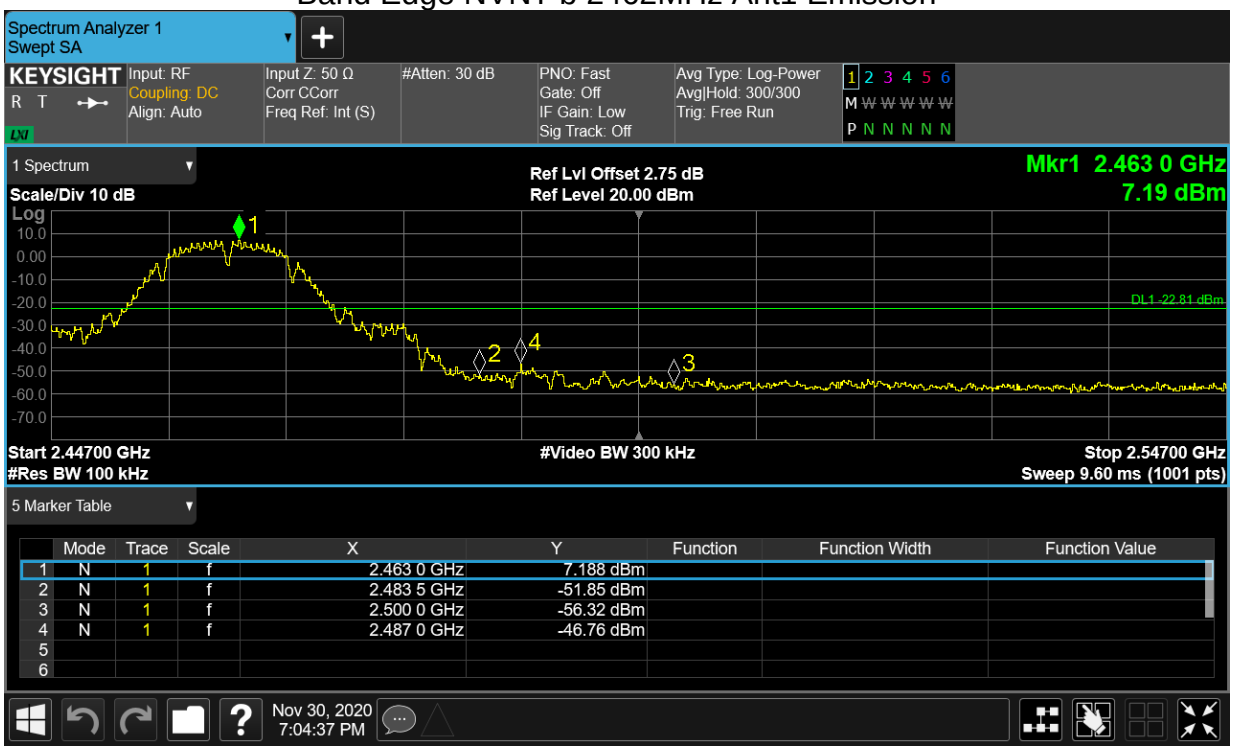
Band Edge NVNT b 2412MHz Ant1 Emission



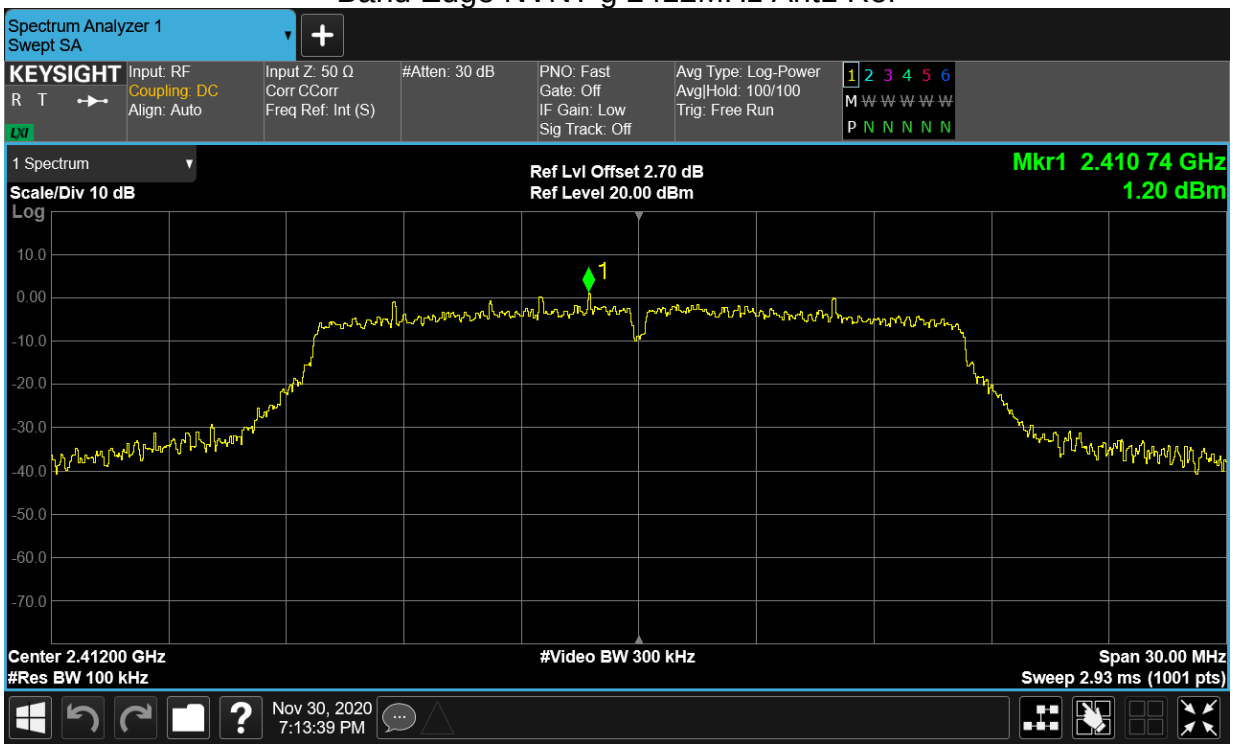
Band Edge NVNT b 2462MHz Ant1 Ref



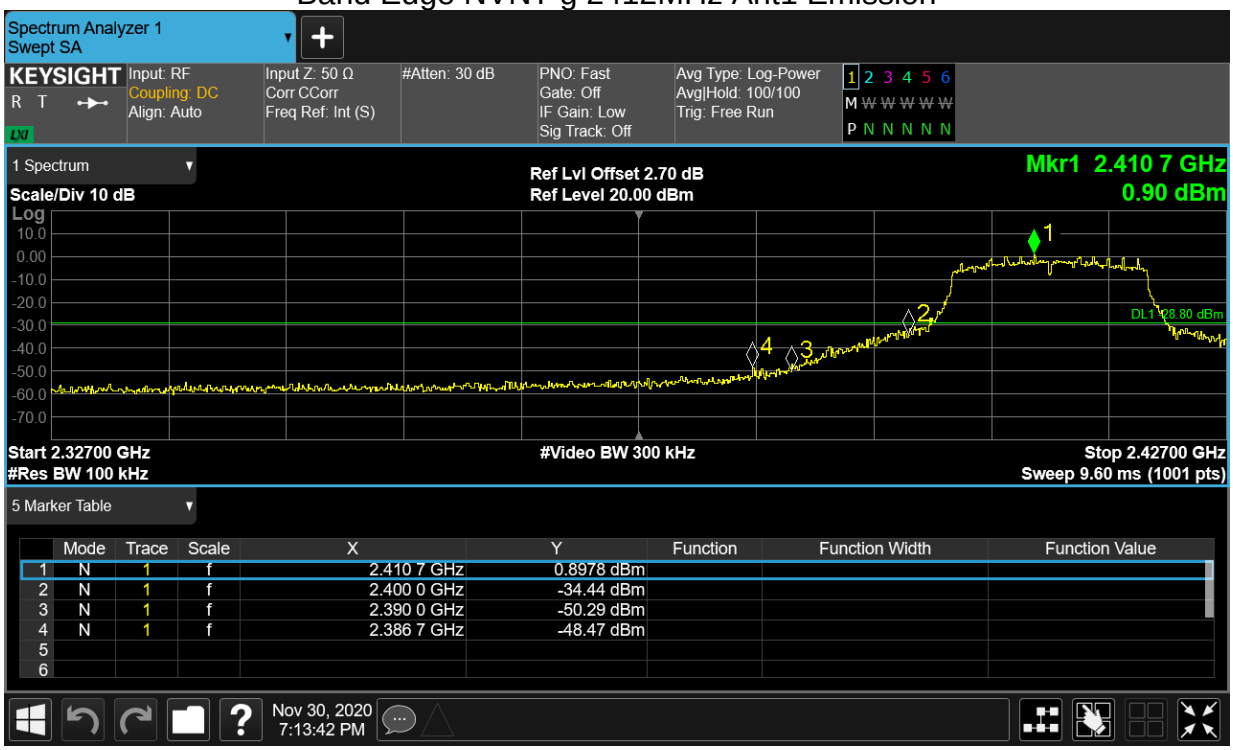
Band Edge NVNT b 2462MHz Ant1 Emission



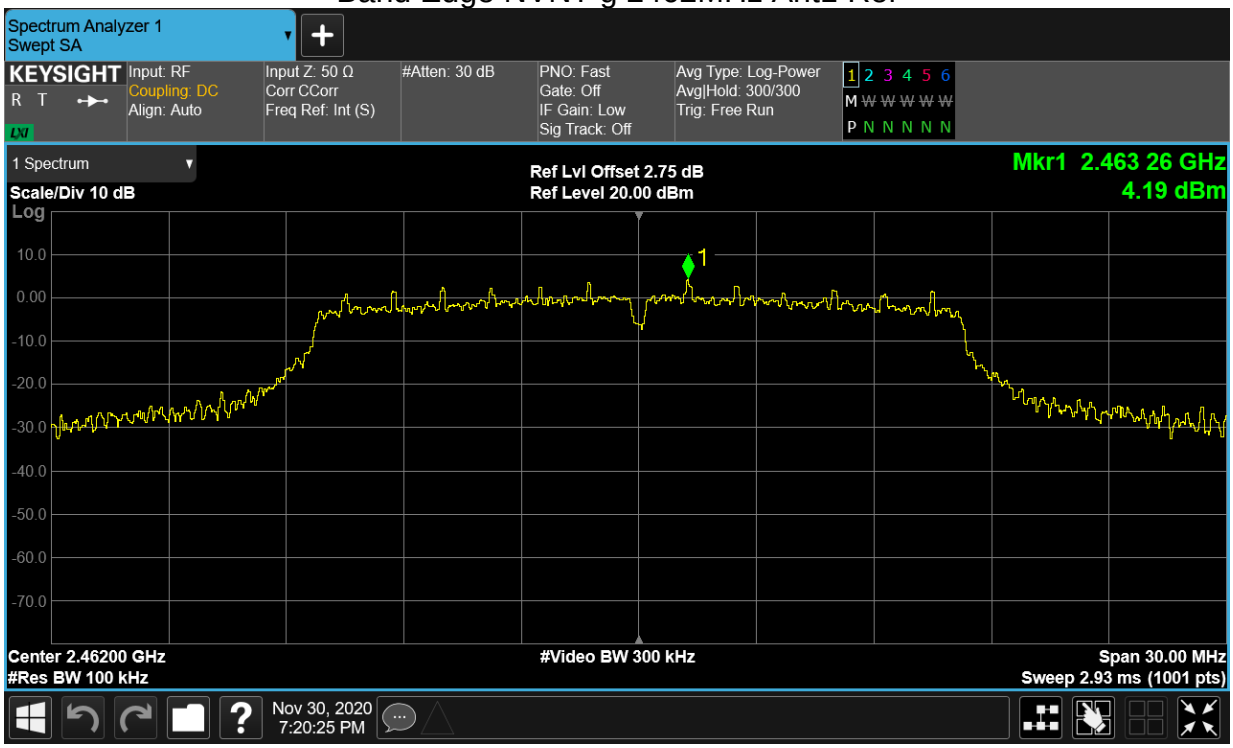
Band Edge NVNT g 2412MHz Ant1 Ref



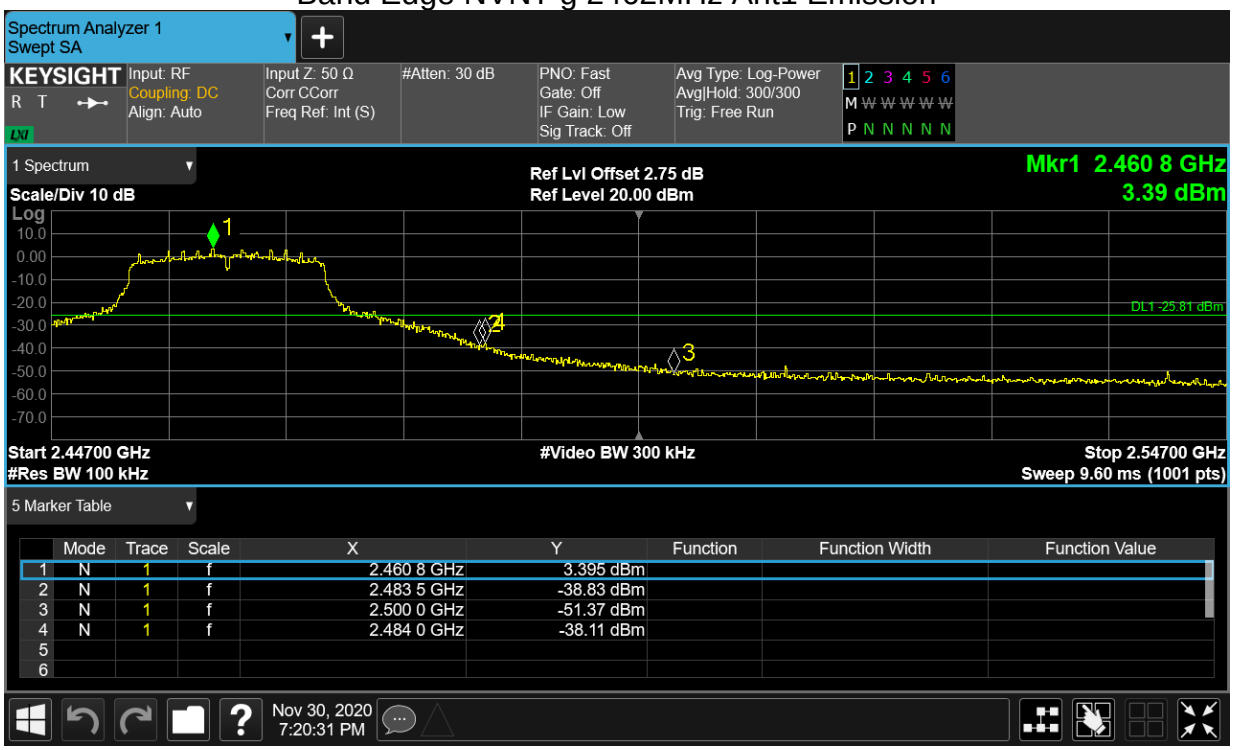
Band Edge NVNT g 2412MHz Ant1 Emission



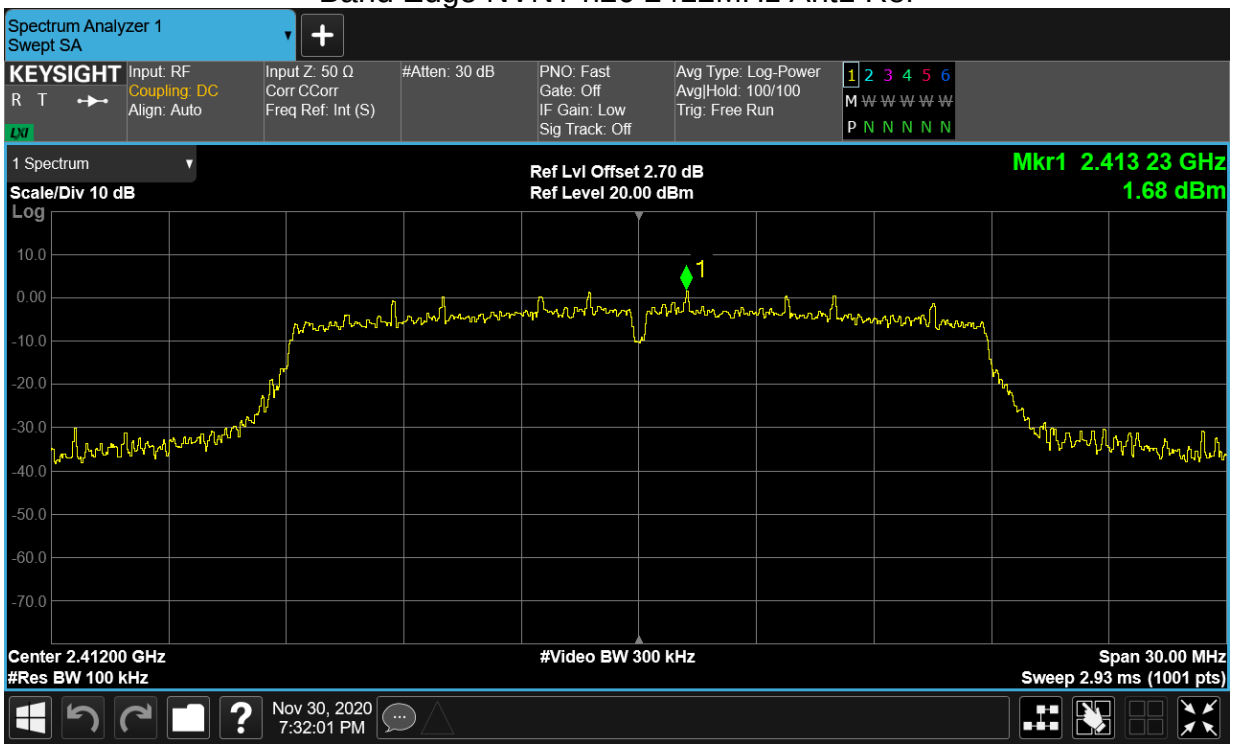
Band Edge NVNT g 2462MHz Ant1 Ref



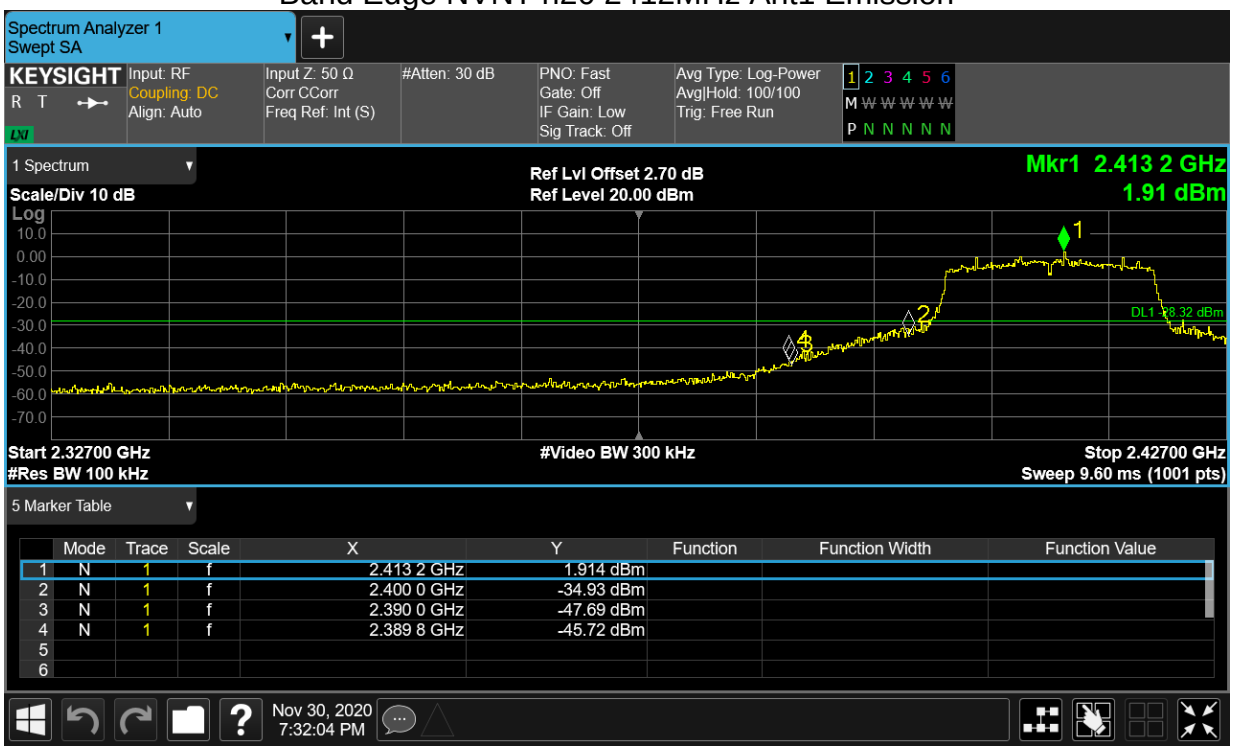
Band Edge NVNT g 2462MHz Ant1 Emission



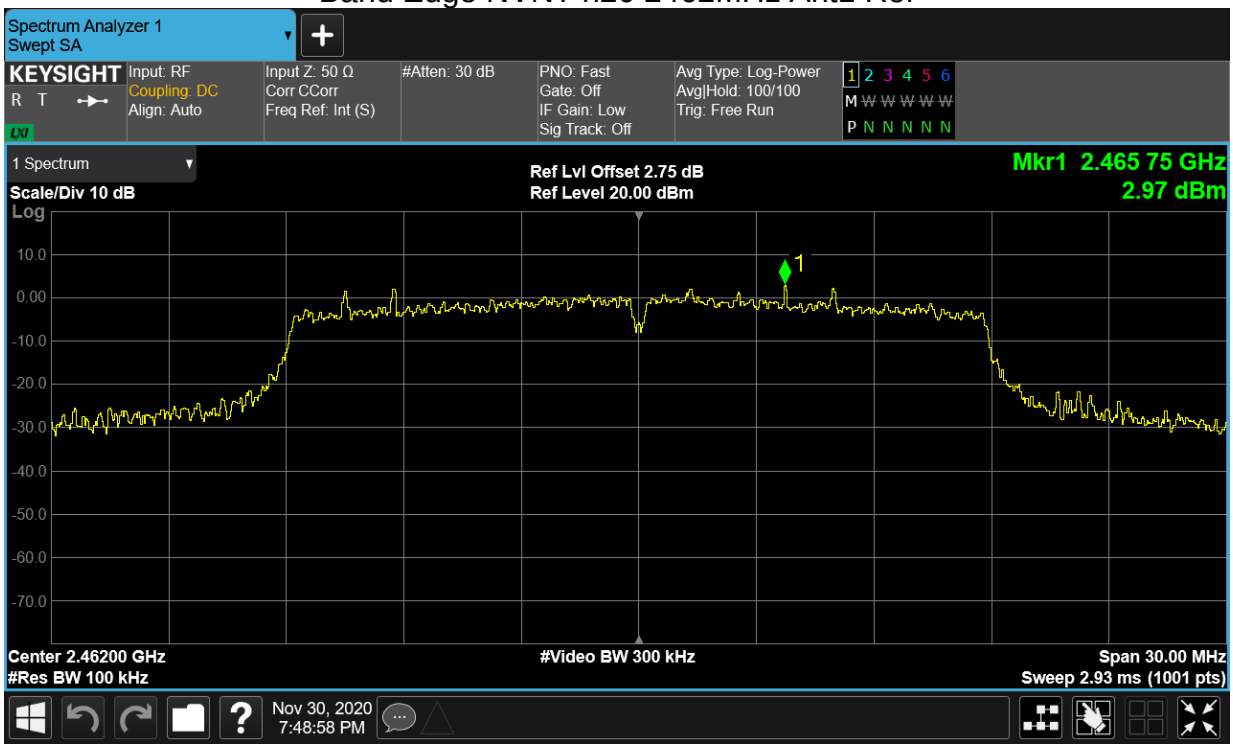
Band Edge NVNT n20 2412MHz Ant1 Ref



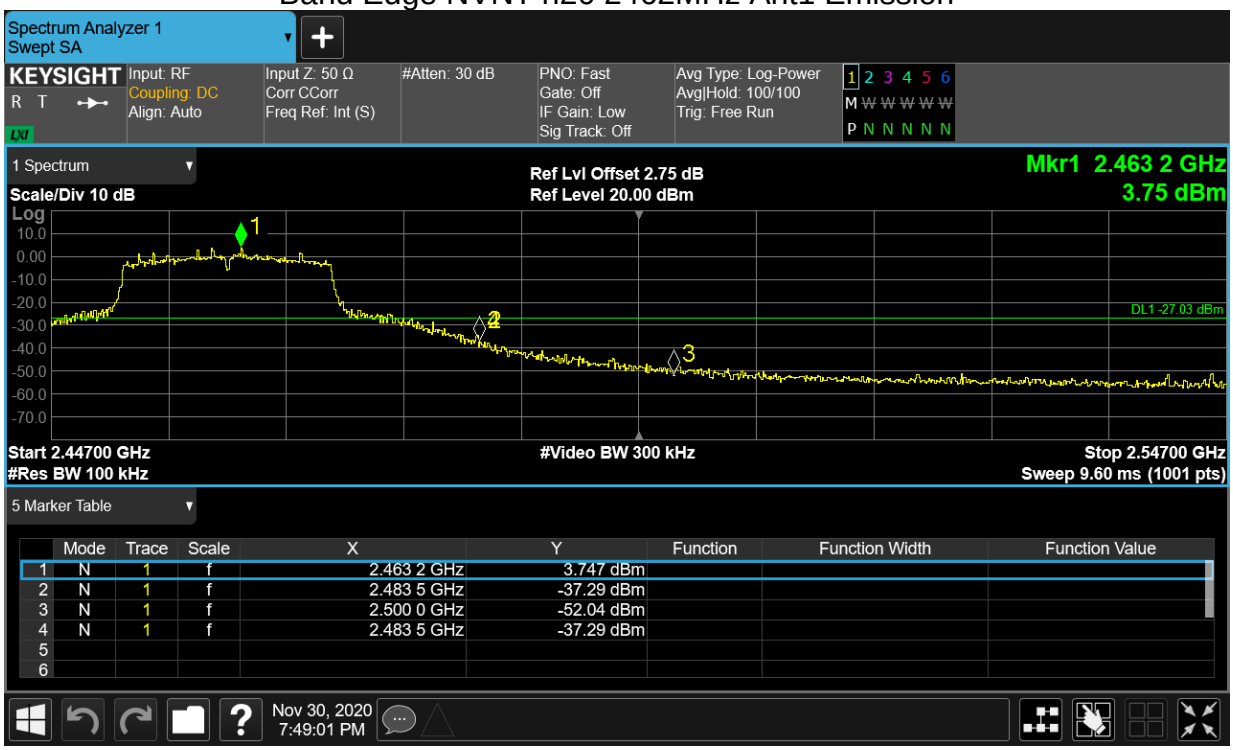
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref

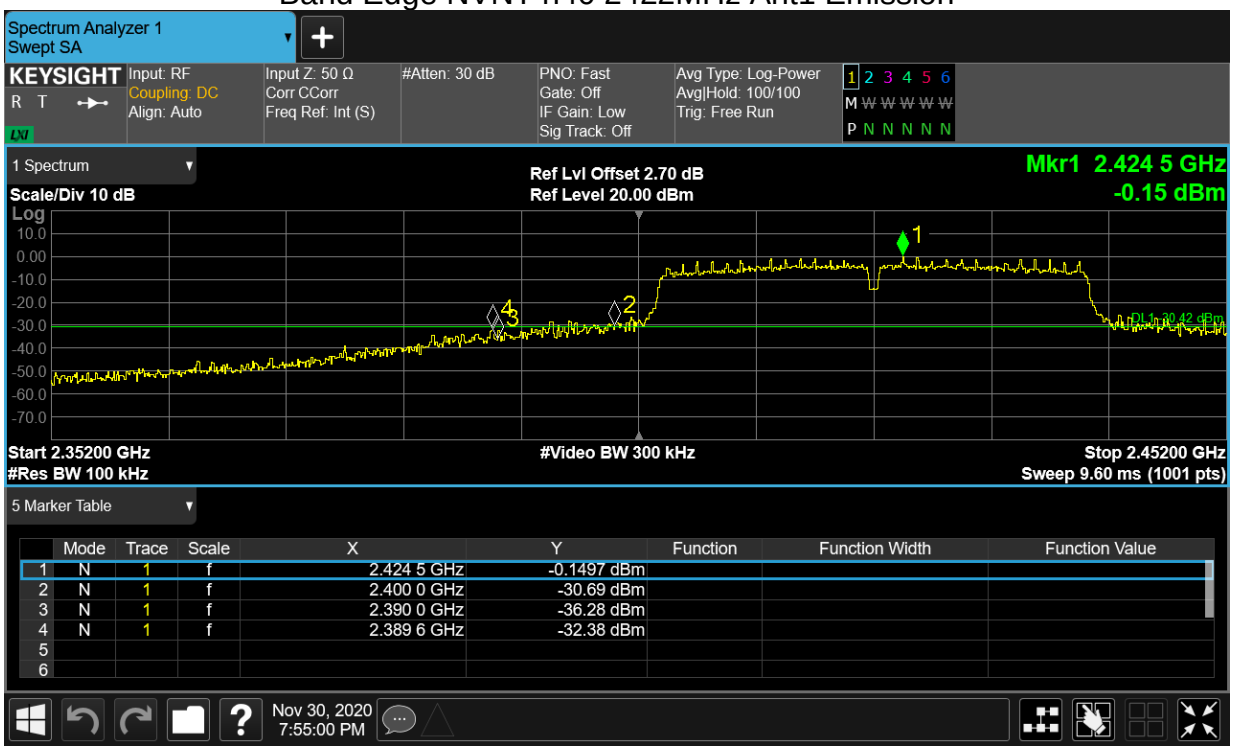


Band Edge NVNT n20 2462MHz Ant1 Emission

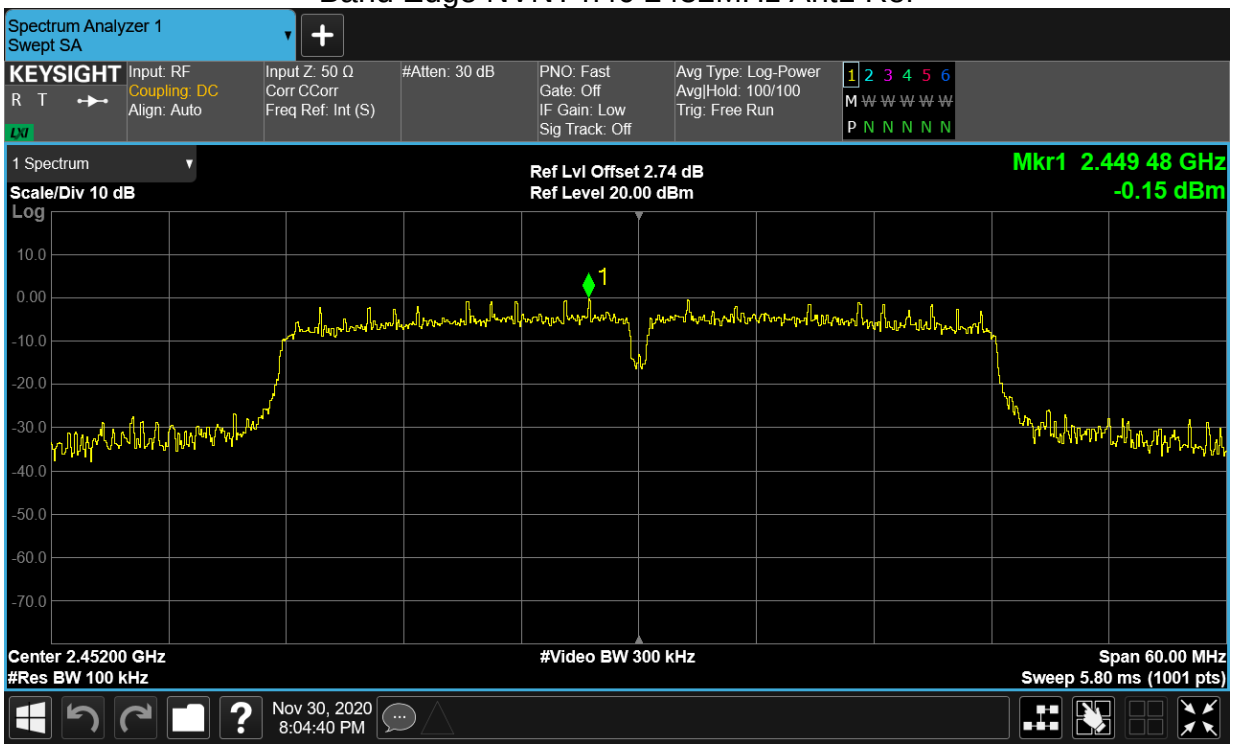


Band Edge NVNT n40 2422MHz Ant1 Ref

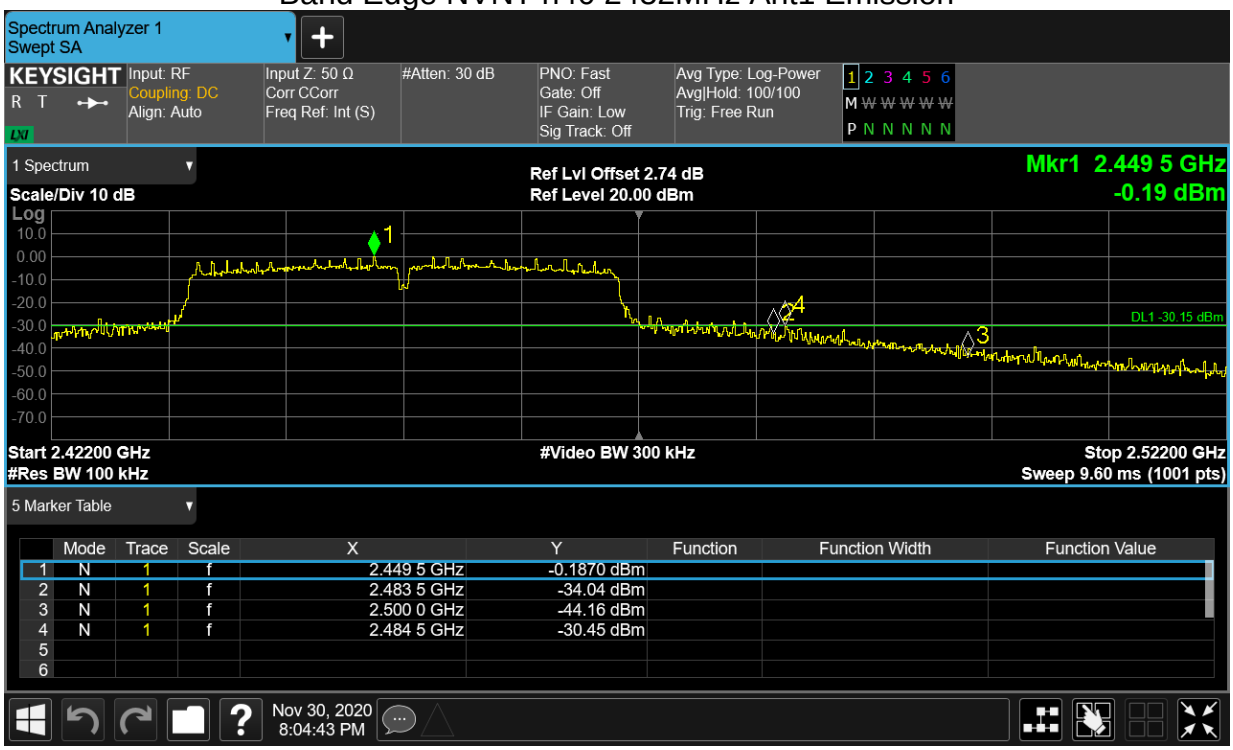
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

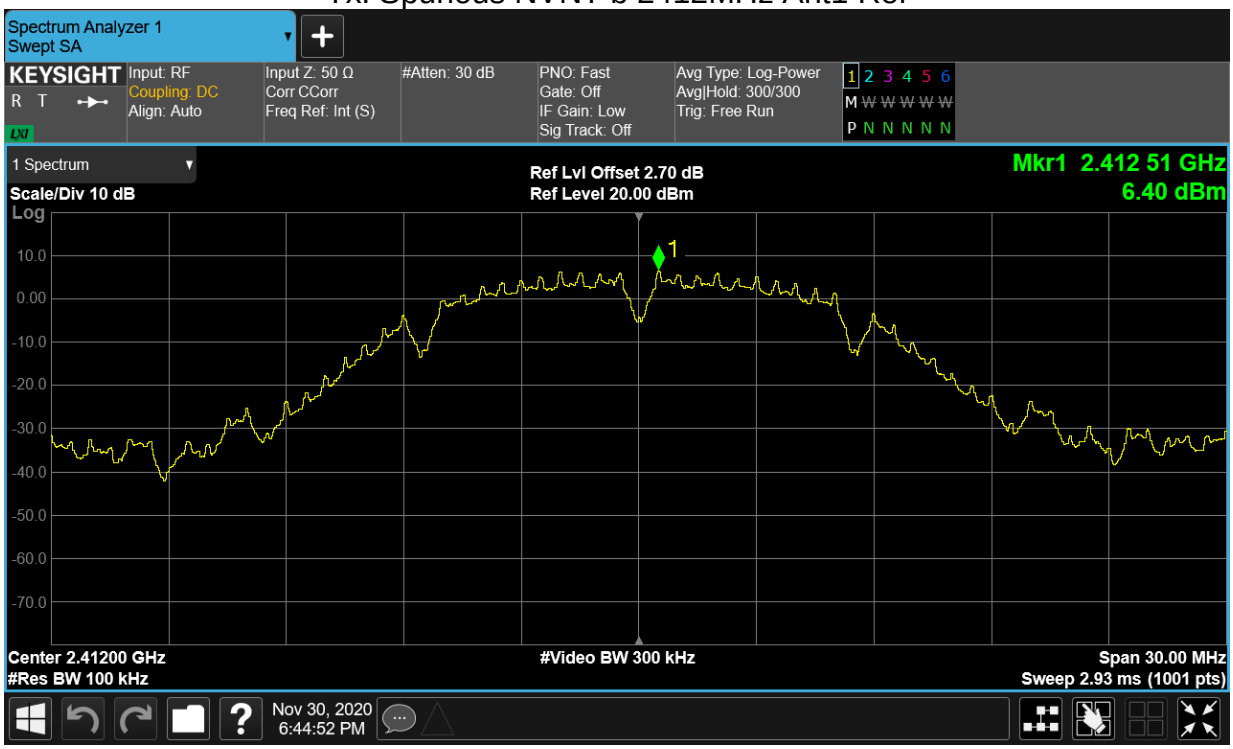


Conducted RF Spurious Emission

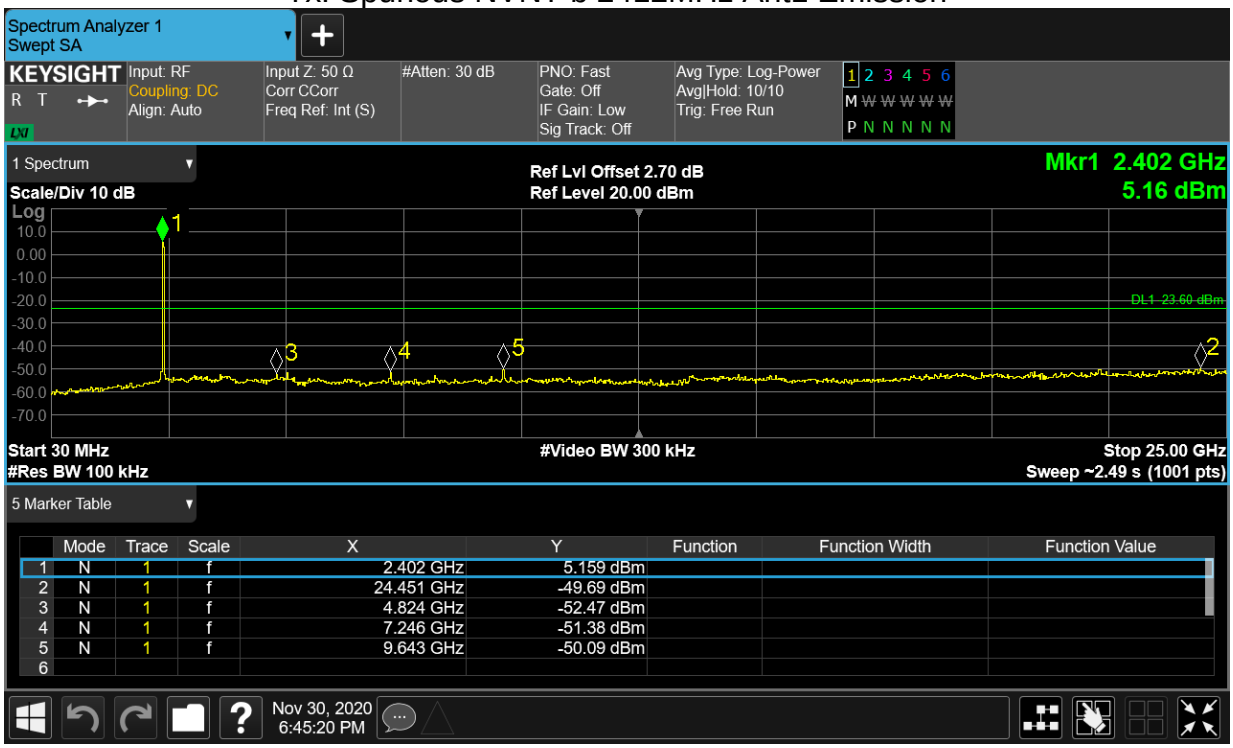
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.08	-30	Pass
NVNT	b	2437	Ant1	-56.91	-30	Pass
NVNT	b	2462	Ant1	-56.42	-30	Pass
NVNT	g	2412	Ant1	-50.86	-30	Pass
NVNT	g	2437	Ant1	-54.4	-30	Pass
NVNT	g	2462	Ant1	-48.92	-30	Pass

NVNT	n20	2412	Ant1	-51.33	-30	Pass
NVNT	n20	2437	Ant1	-57.8	-30	Pass
NVNT	n20	2462	Ant1	-46.29	-30	Pass
NVNT	n40	2422	Ant1	-47.37	-30	Pass
NVNT	n40	2437	Ant1	-41.78	-30	Pass
NVNT	n40	2452	Ant1	-37.1	-30	Pass

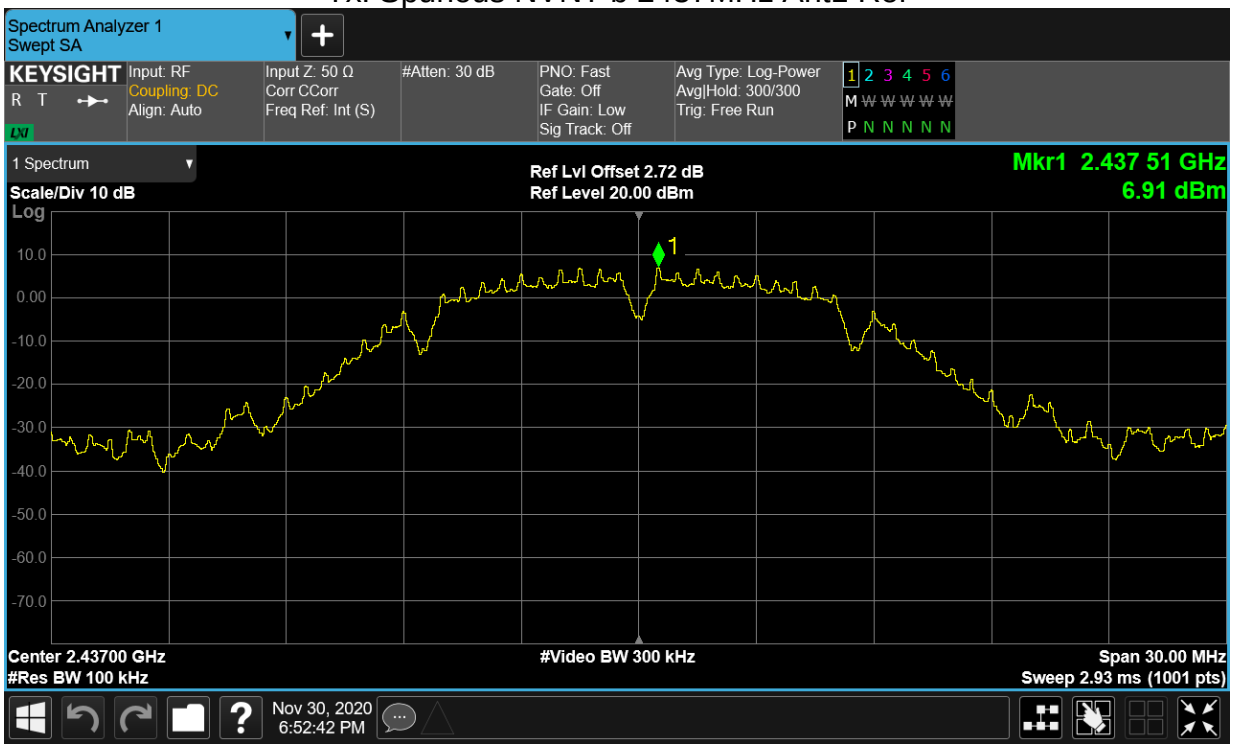
Tx. Spurious NVNT b 2412MHz Ant1 Ref



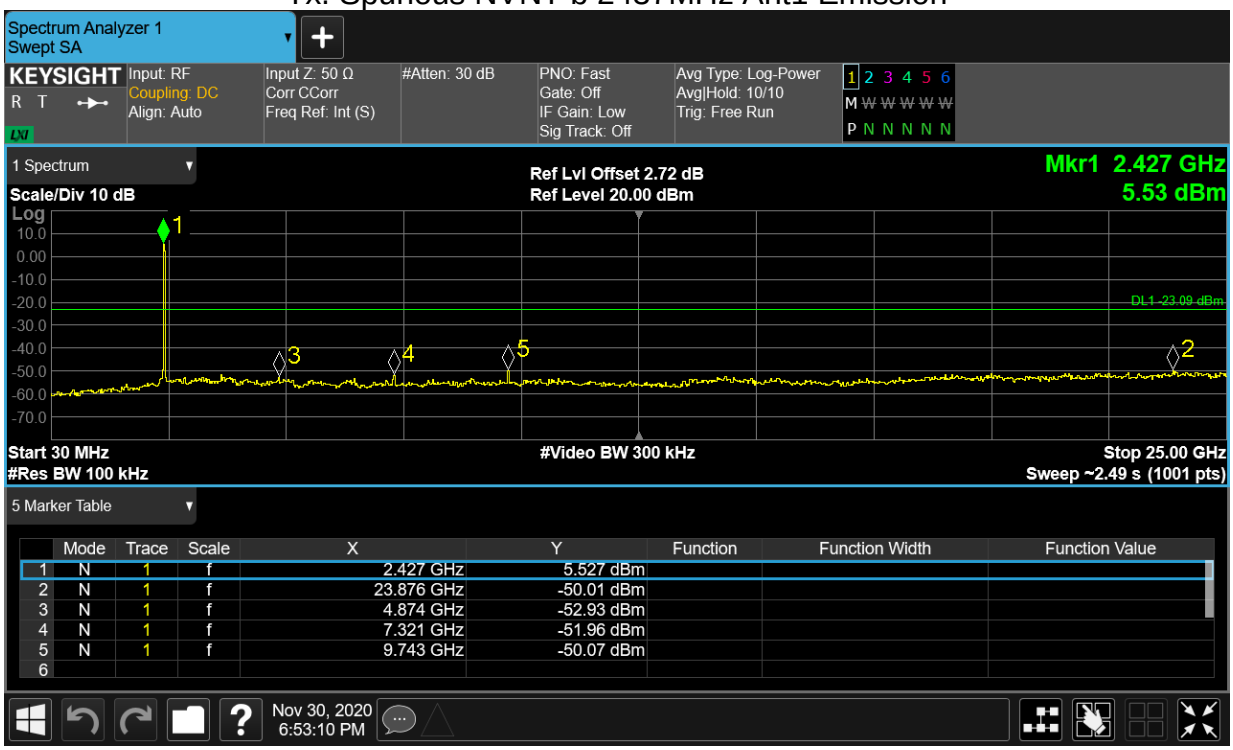
Tx. Spurious NVNT b 2412MHz Ant1 Emission



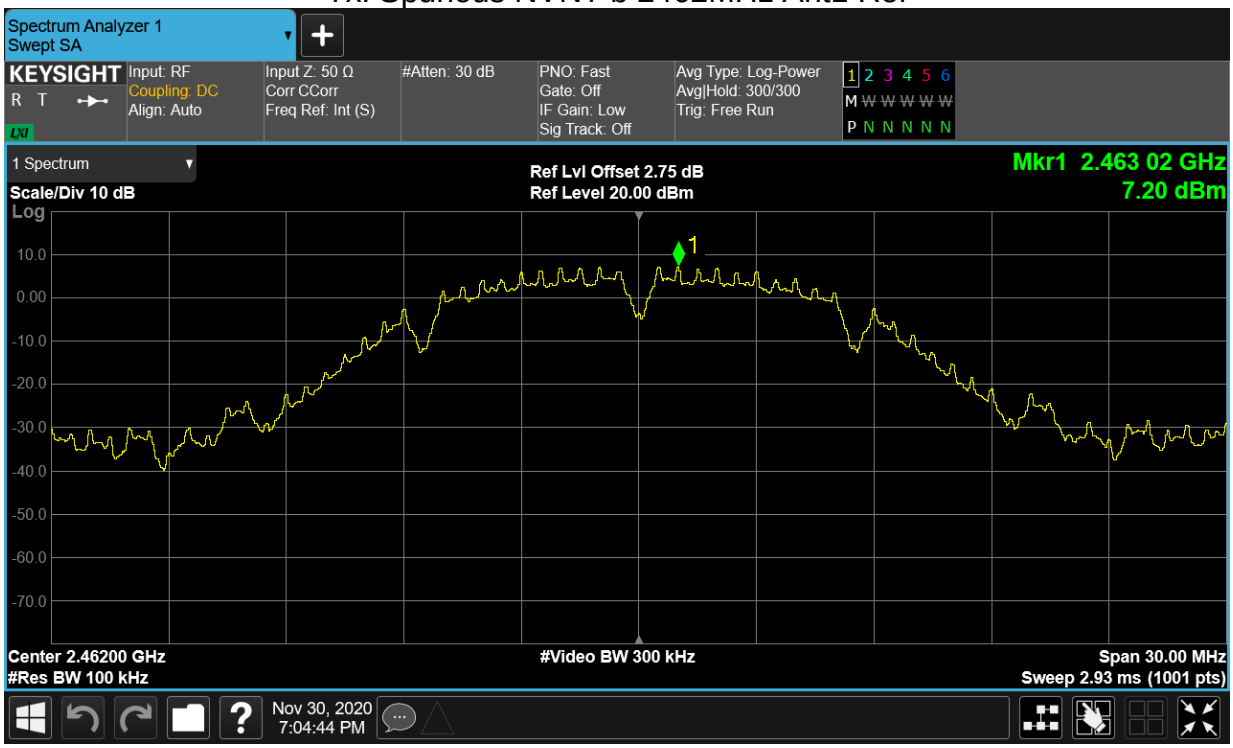
Tx. Spurious NVNT b 2437MHz Ant1 Ref



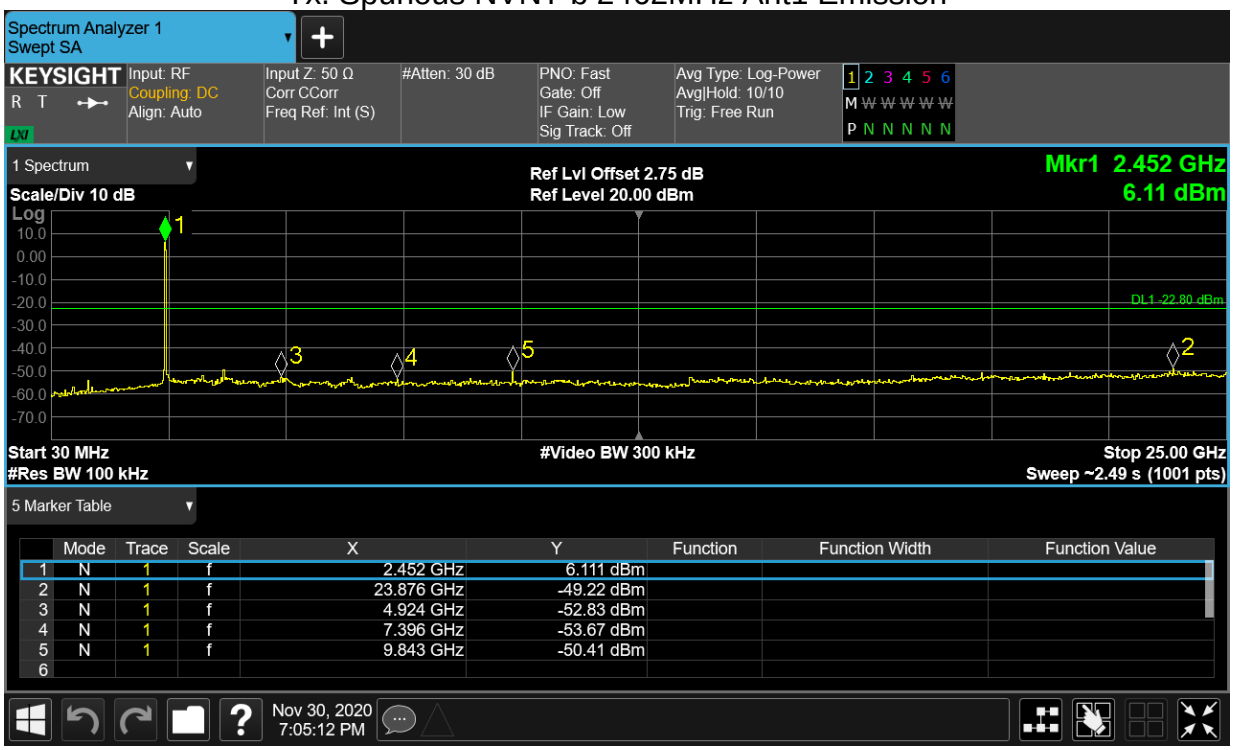
Tx. Spurious NVNT b 2437MHz Ant1 Emission



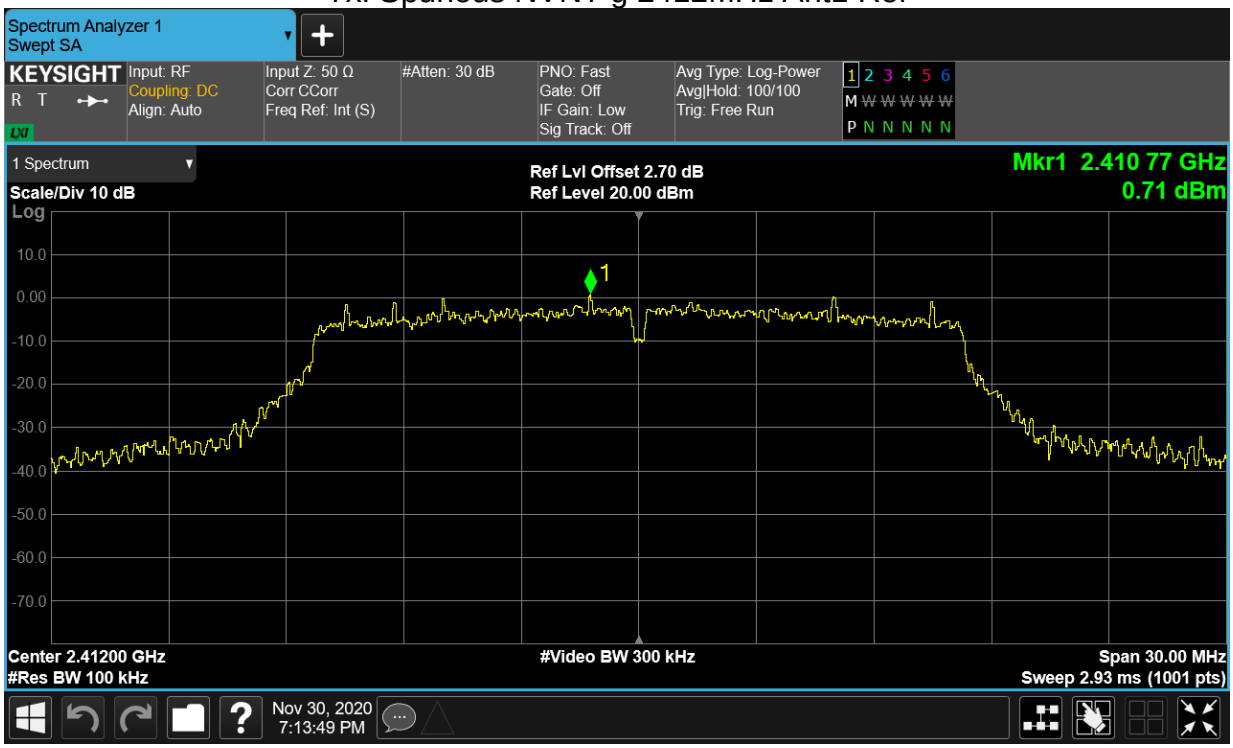
Tx. Spurious NVNT b 2462MHz Ant1 Ref



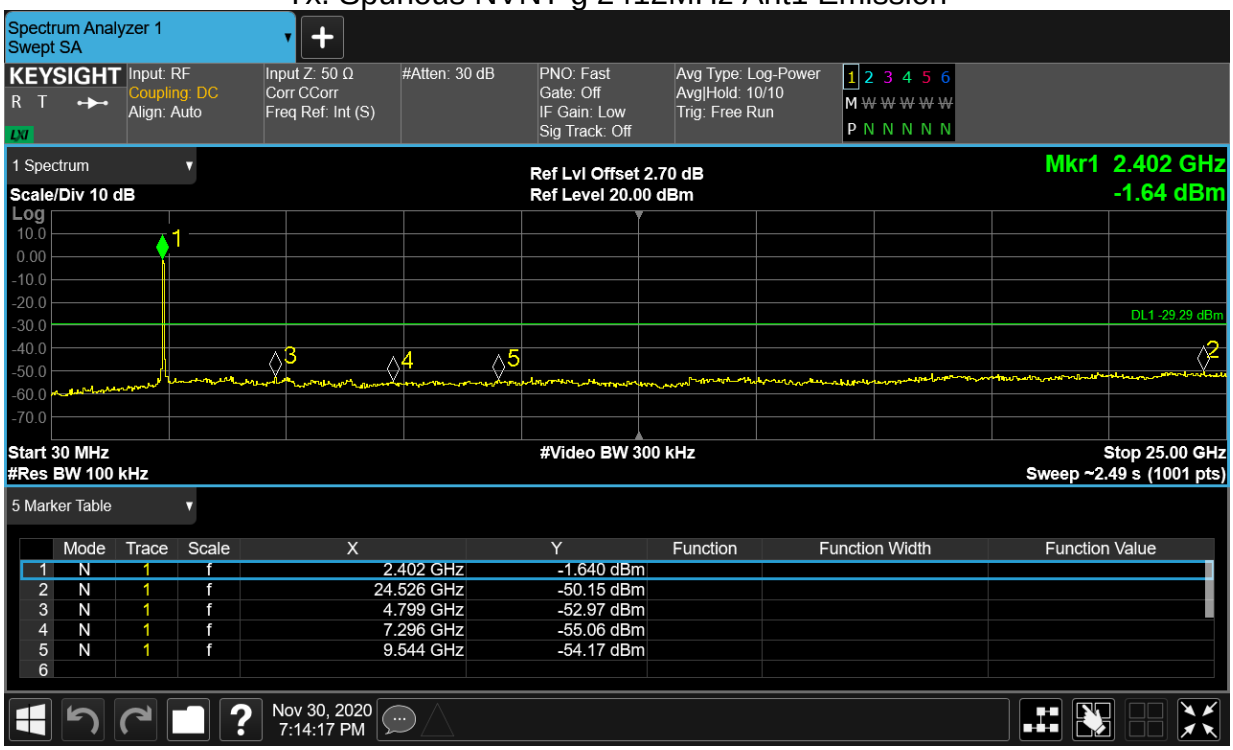
Tx. Spurious NVNT b 2462MHz Ant1 Emission



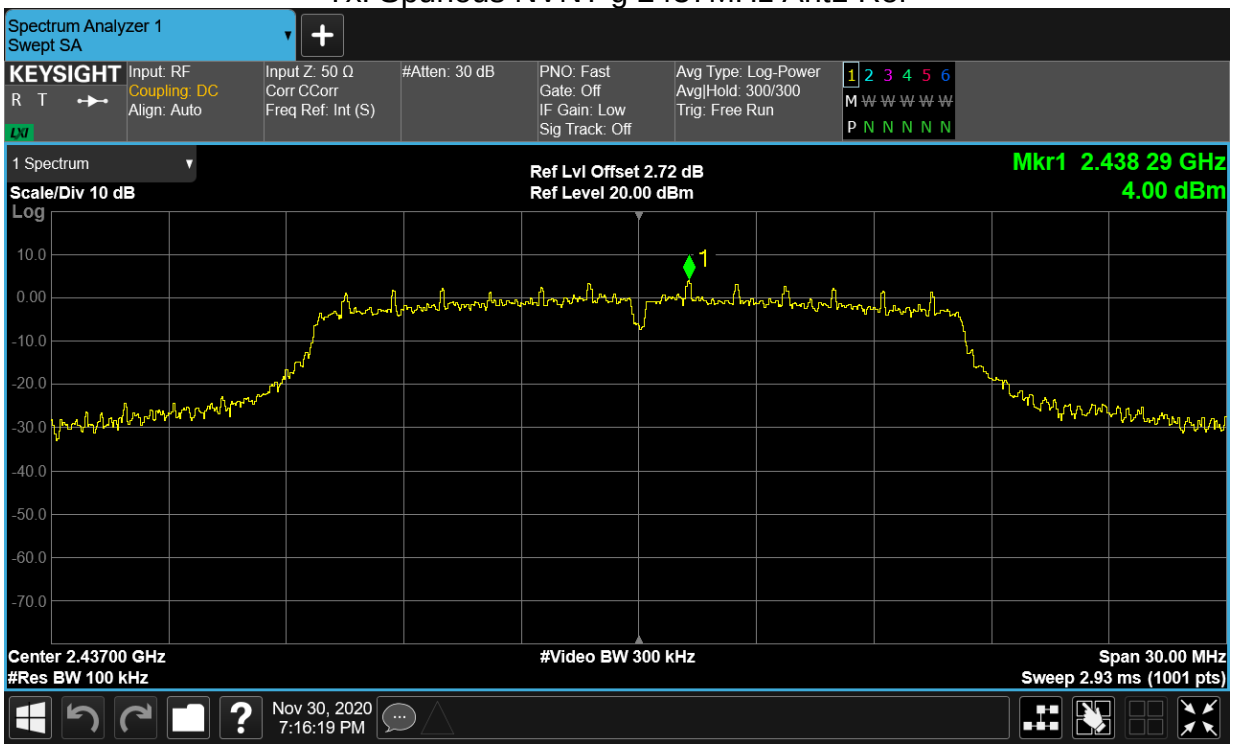
Tx. Spurious NVNT g 2412MHz Ant1 Ref



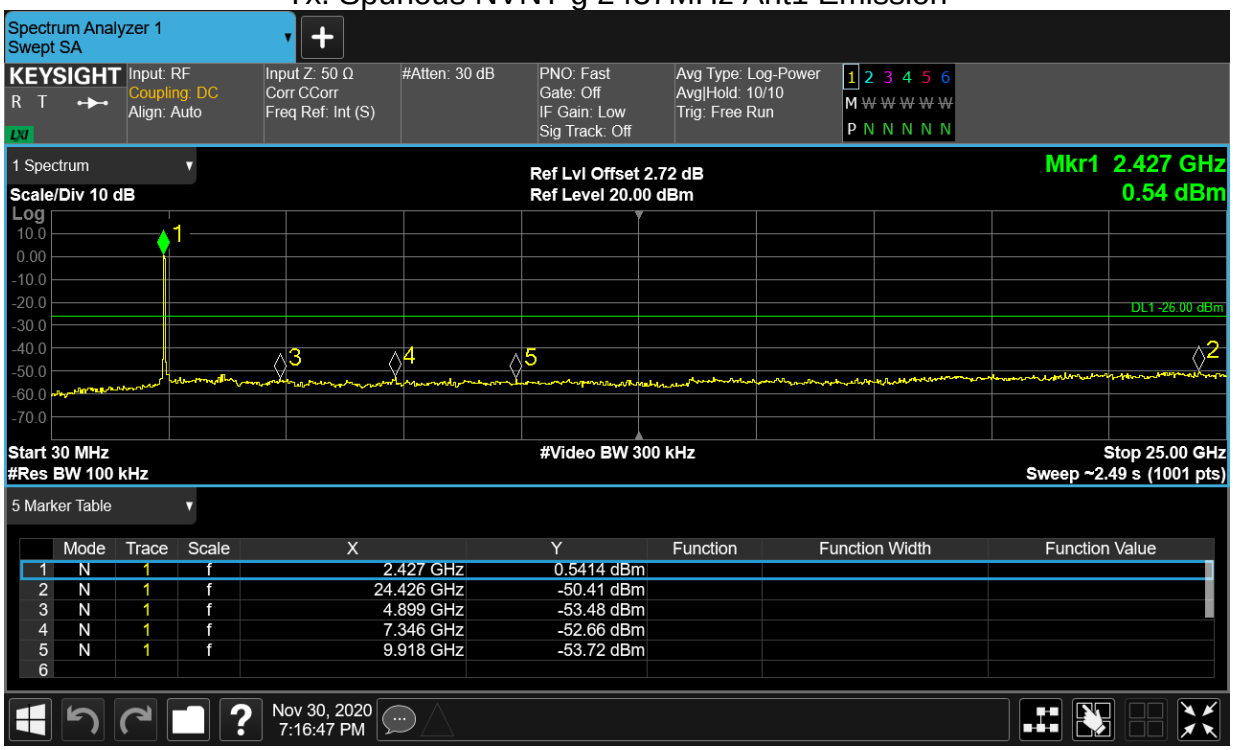
Tx. Spurious NVNT g 2412MHz Ant1 Emission



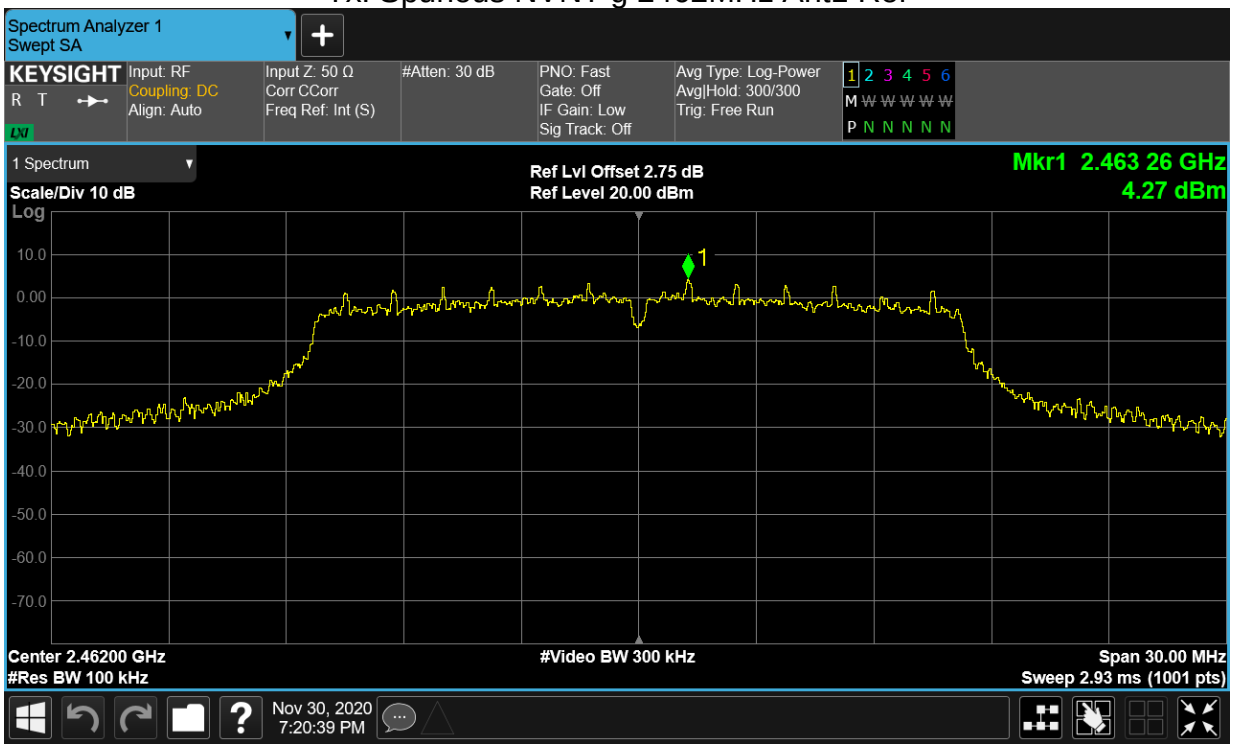
Tx. Spurious NVNT g 2437MHz Ant1 Ref



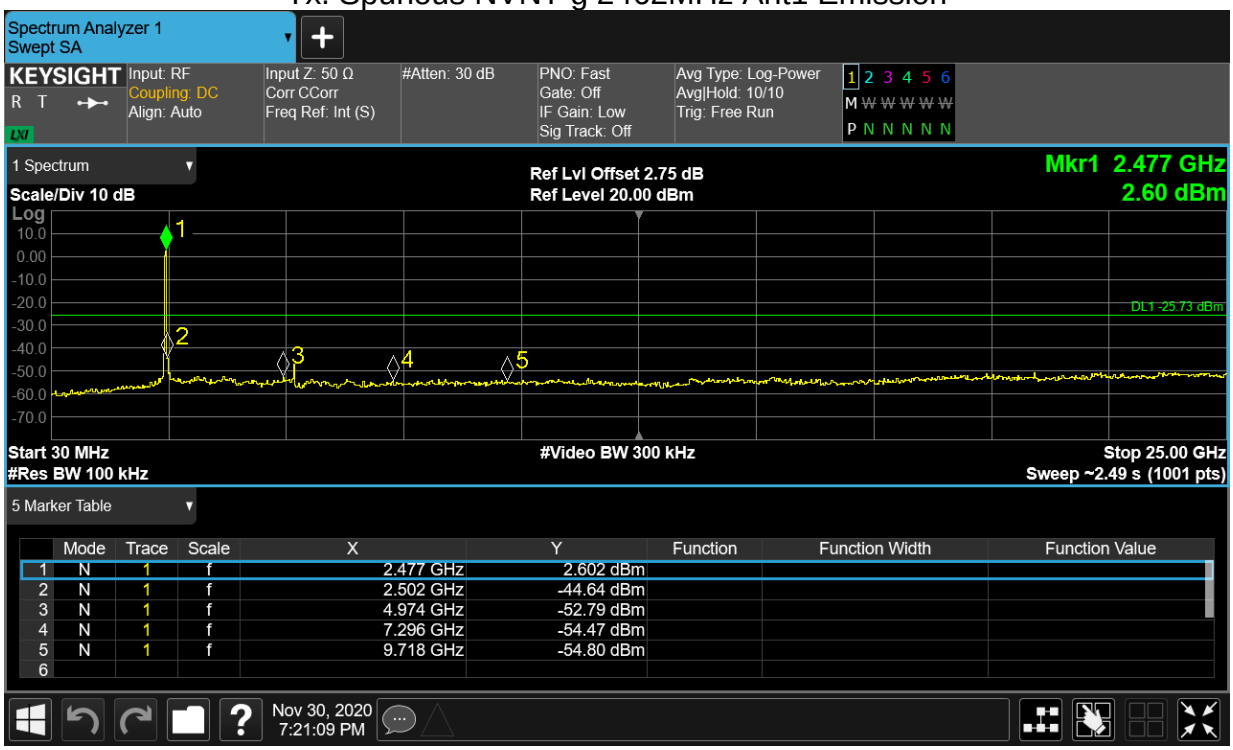
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref

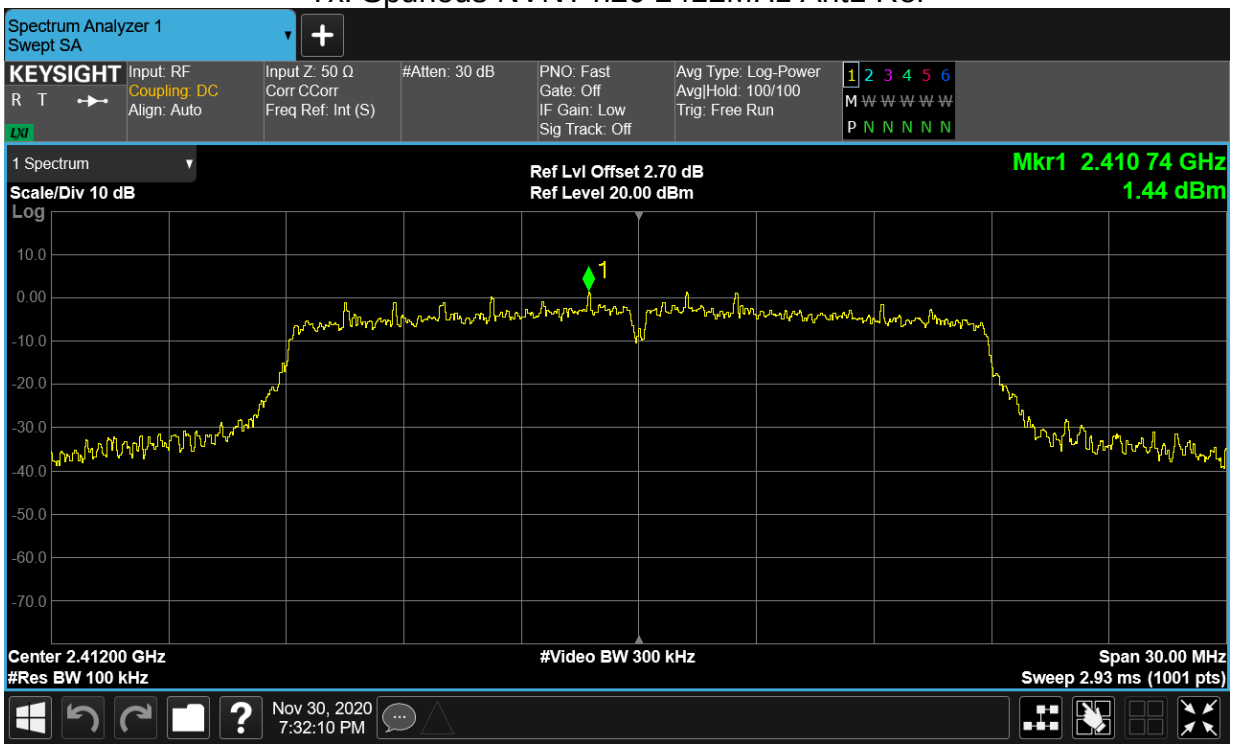


Tx. Spurious NVNT g 2462MHz Ant1 Emission

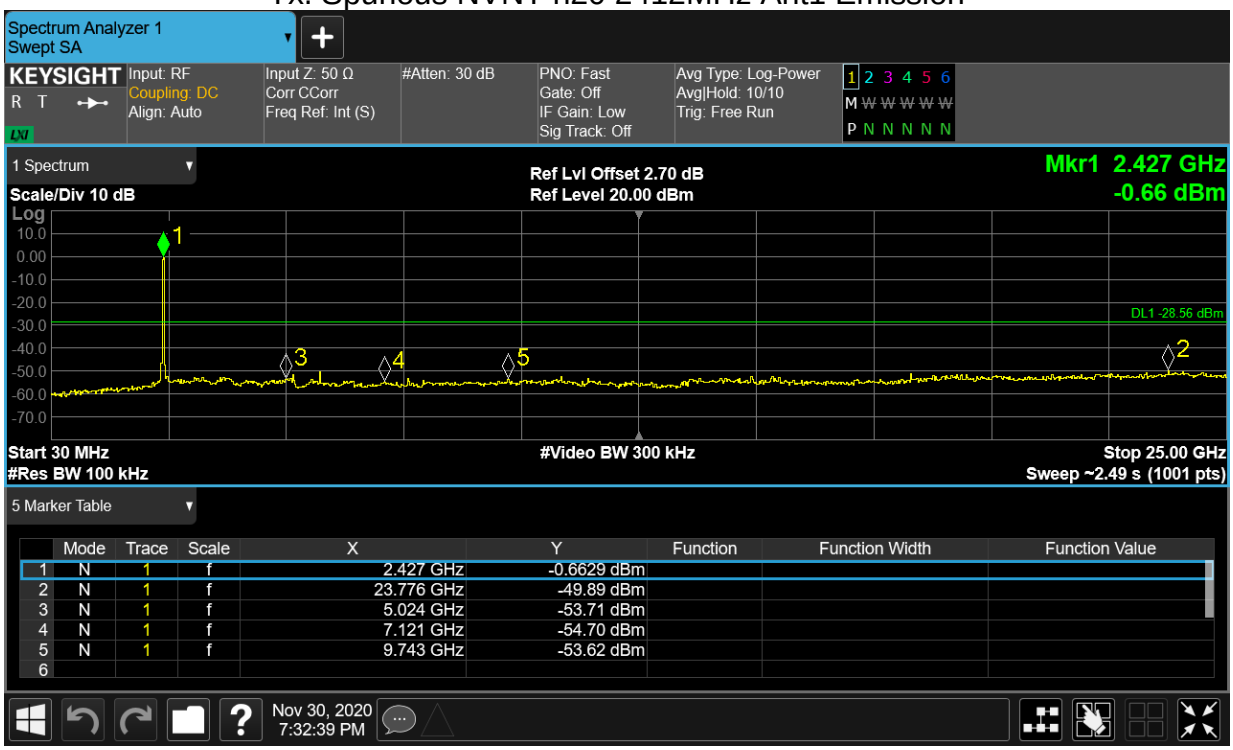


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.477 GHz	2.602 dBm			
2	N	1	f	2.502 GHz	-44.64 dBm			
3	N	1	f	4.974 GHz	-52.79 dBm			
4	N	1	f	7.296 GHz	-54.47 dBm			
5	N	1	f	9.718 GHz	-54.80 dBm			
6								

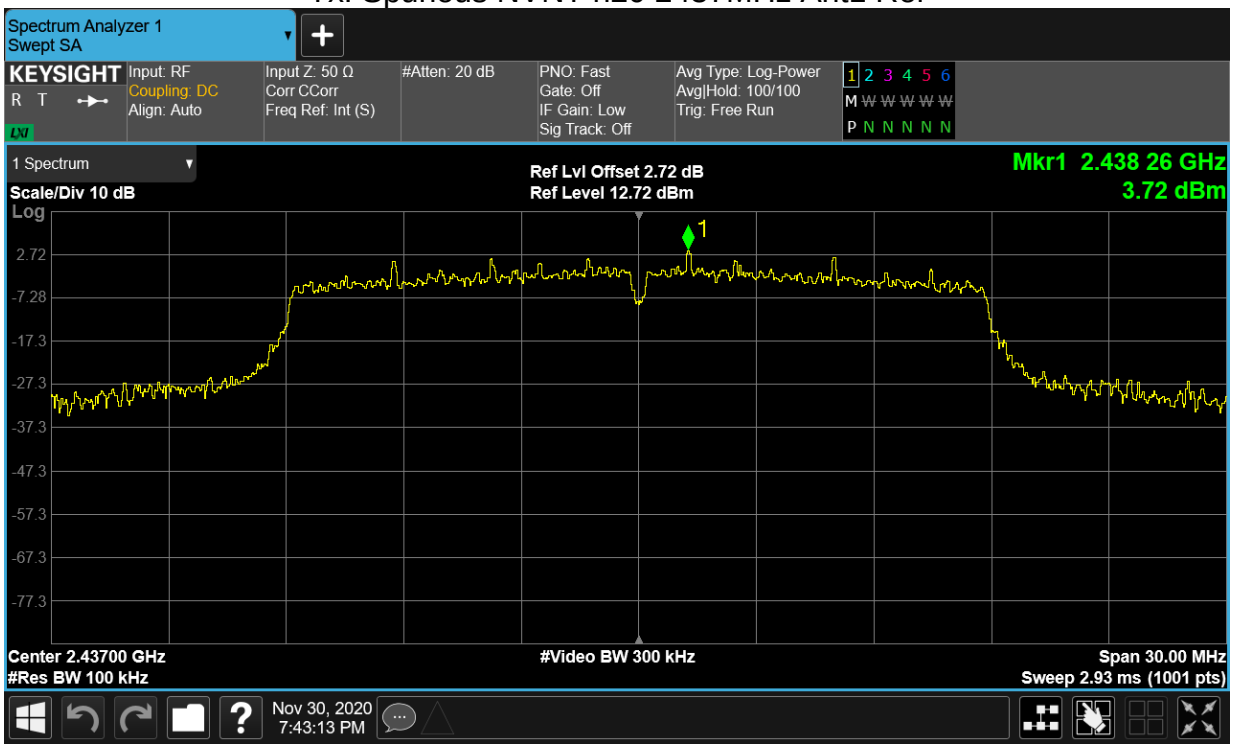
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



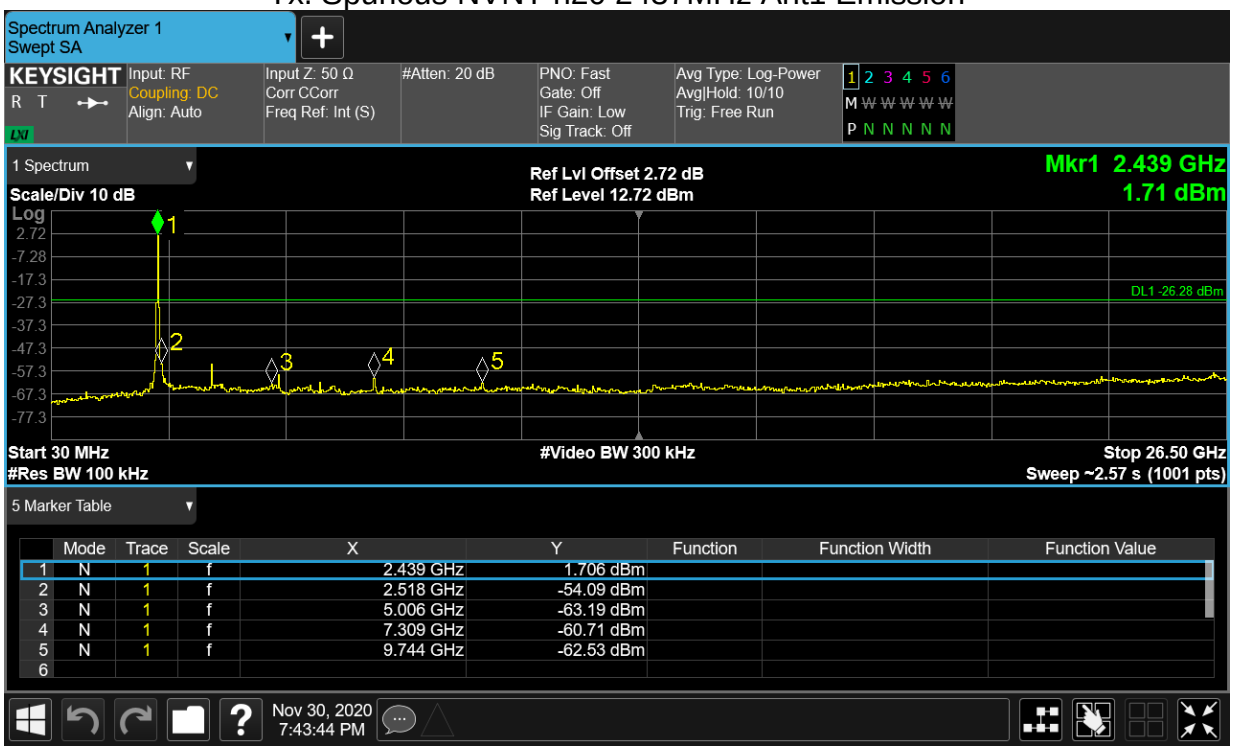
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



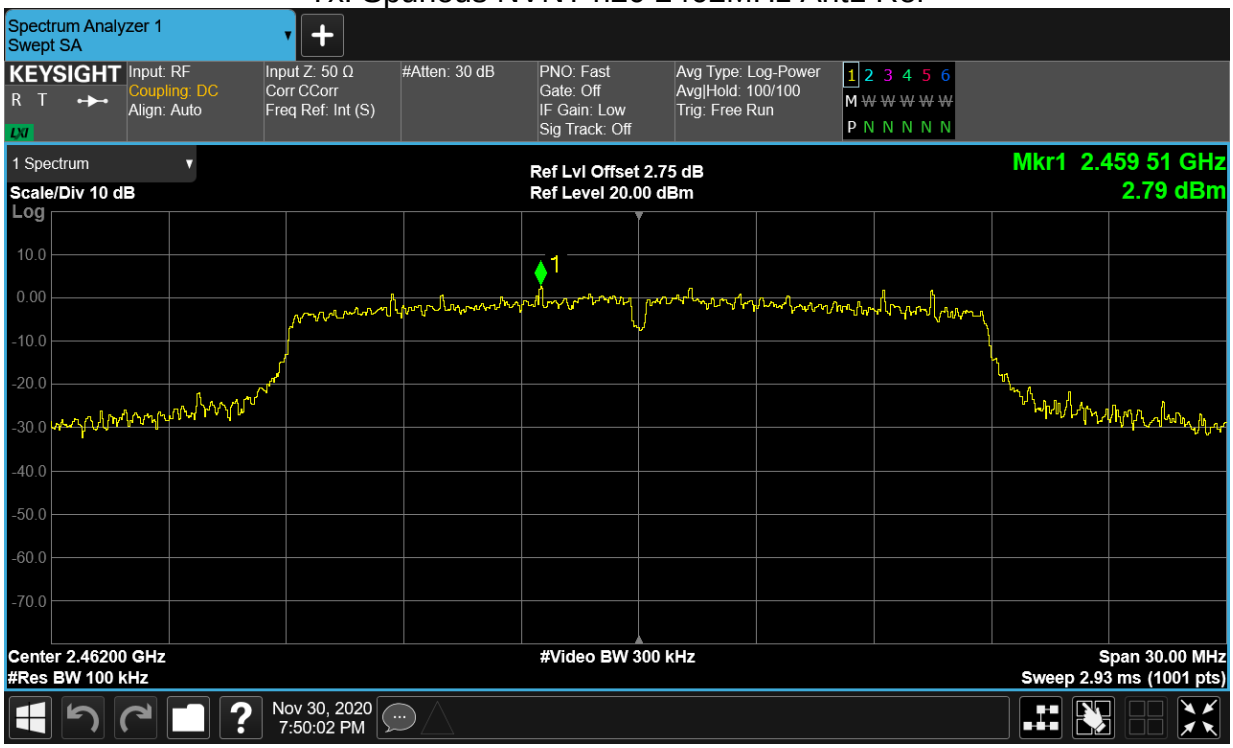
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



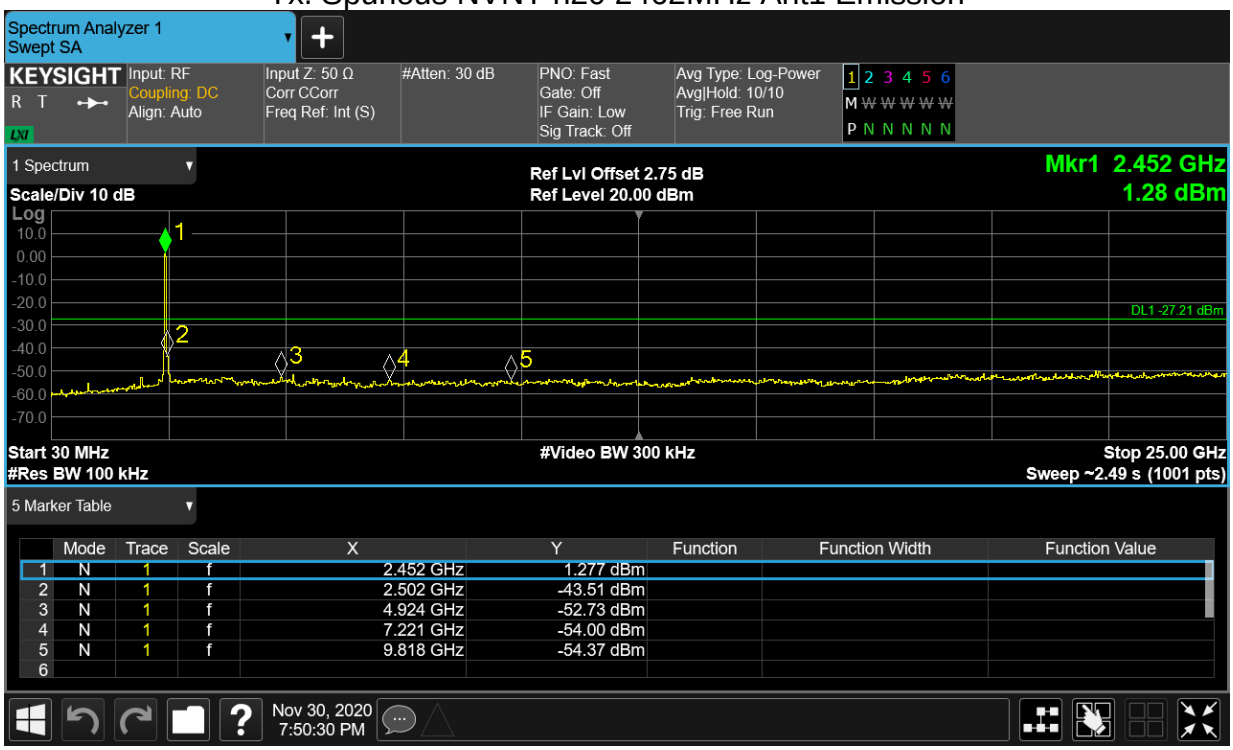
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref

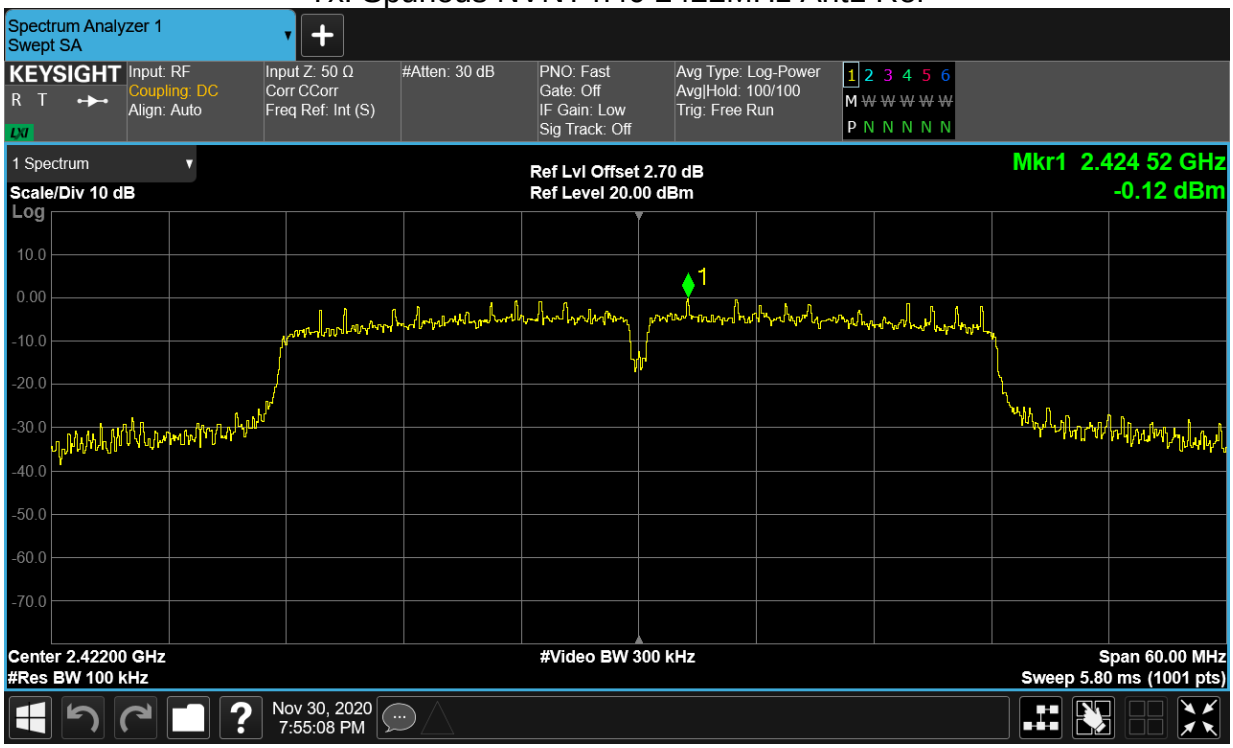


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

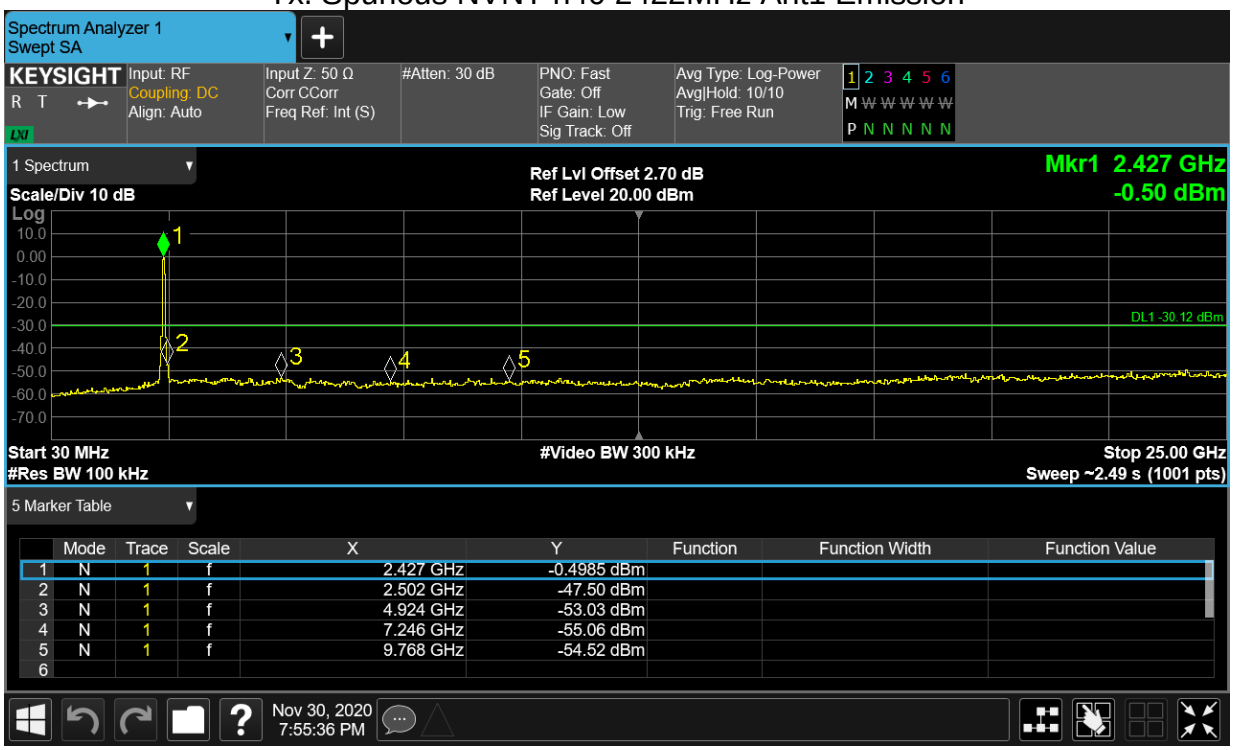


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.452 GHz	1.277 dBm			
2	N	1	f	2.502 GHz	-43.51 dBm			
3	N	1	f	4.924 GHz	-52.73 dBm			
4	N	1	f	7.221 GHz	-54.00 dBm			
5	N	1	f	9.818 GHz	-54.37 dBm			
6								

Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



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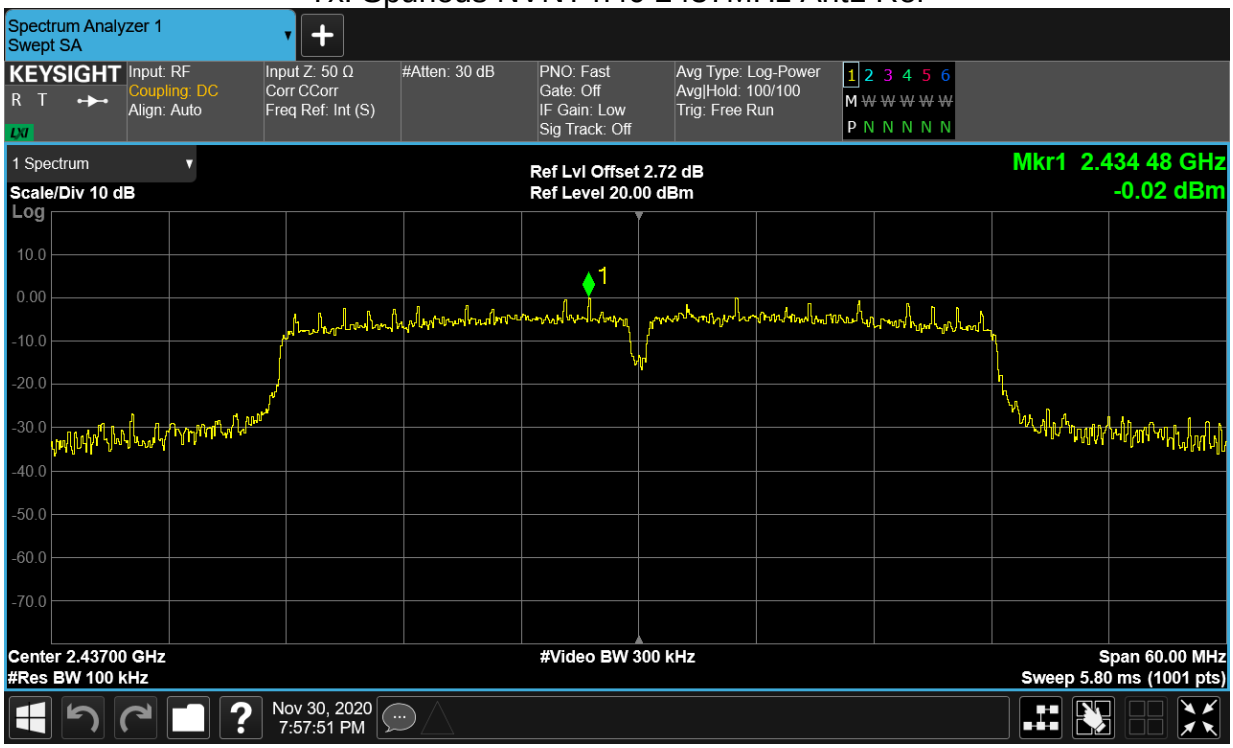

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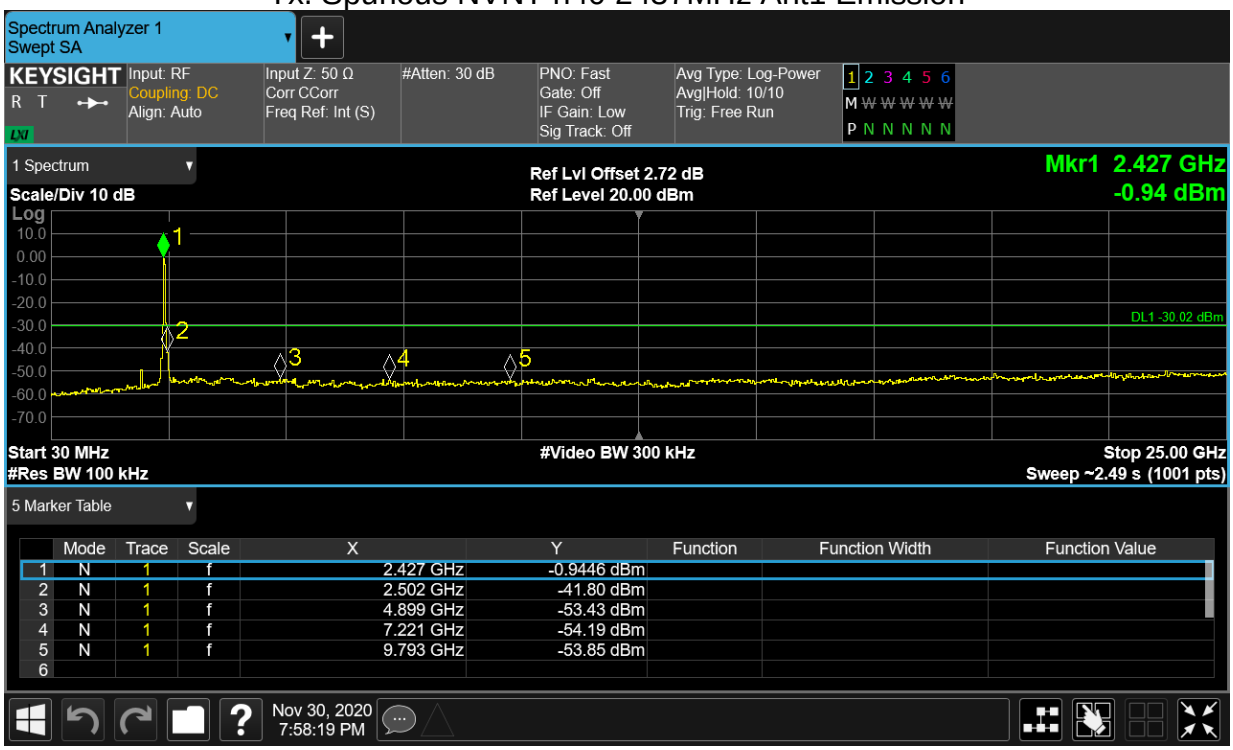

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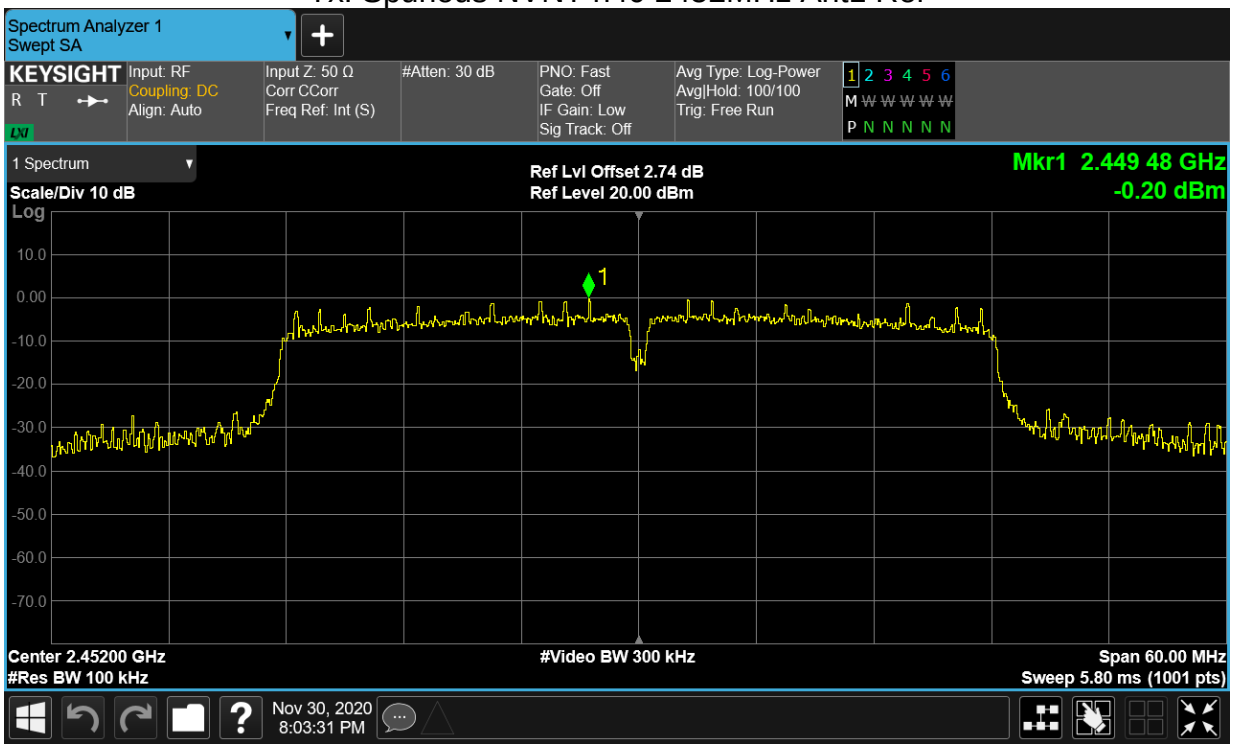
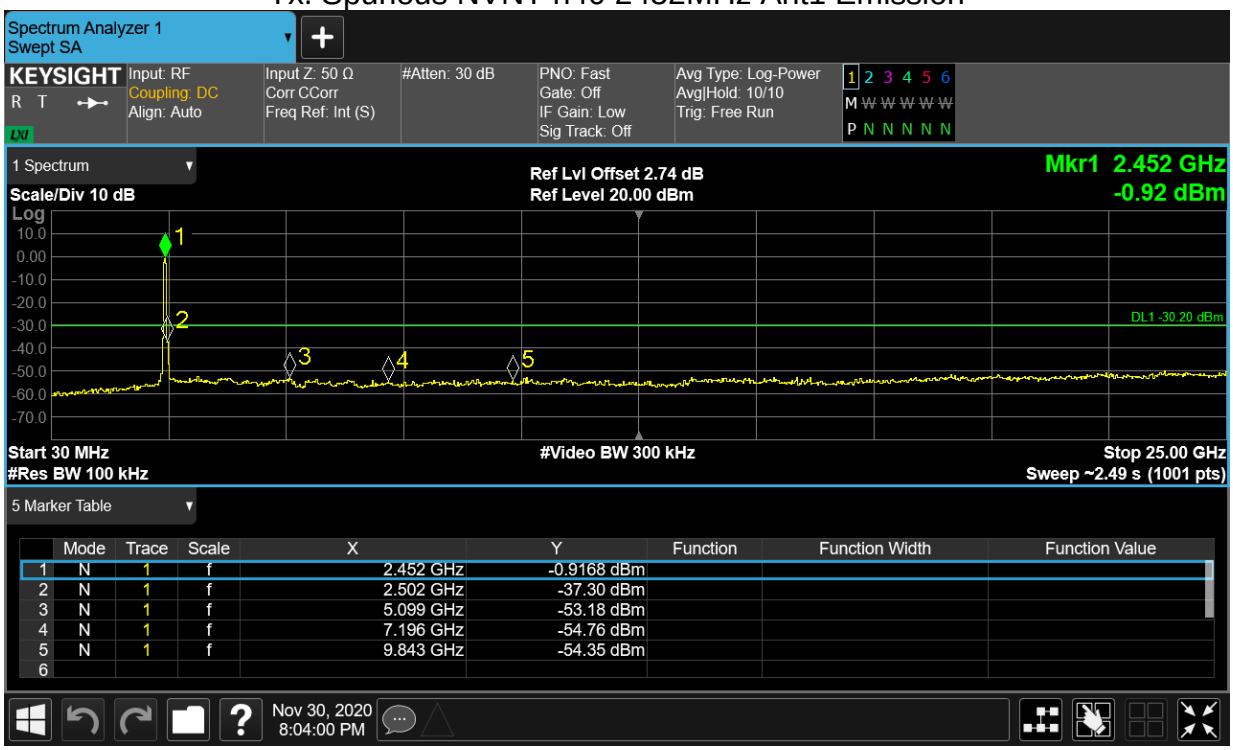


Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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