

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet PC
Test Model:	SCORE51X
Sample ID:	RW-C-202211-0239-1-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Zhu Dian Yuan
Note: For a more detailed features description, please refer to the report TBR-C-202211-0239-12	

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.52	0.02	0.12
NVNT	b	2437	Ant1	99.53	0.02	0.12
NVNT	b	2462	Ant1	99.53	0.02	0.12
NVNT	g	2412	Ant1	96.53	0.15	0.72
NVNT	g	2437	Ant1	96.53	0.15	0.72
NVNT	g	2462	Ant1	97.22	0.12	0.71
NVNT	n(HT20)	2412	Ant1	97.01	0.13	0.77
NVNT	n(HT20)	2437	Ant1	96.3	0.16	0.77
NVNT	n(HT20)	2462	Ant1	97.01	0.13	0.77
NVNT	n(HT40)	2422	Ant1	94.2	0.26	1.54
NVNT	n(HT40)	2437	Ant1	94.2	0.26	1.54
NVNT	n(HT40)	2452	Ant1	94.2	0.26	1.54

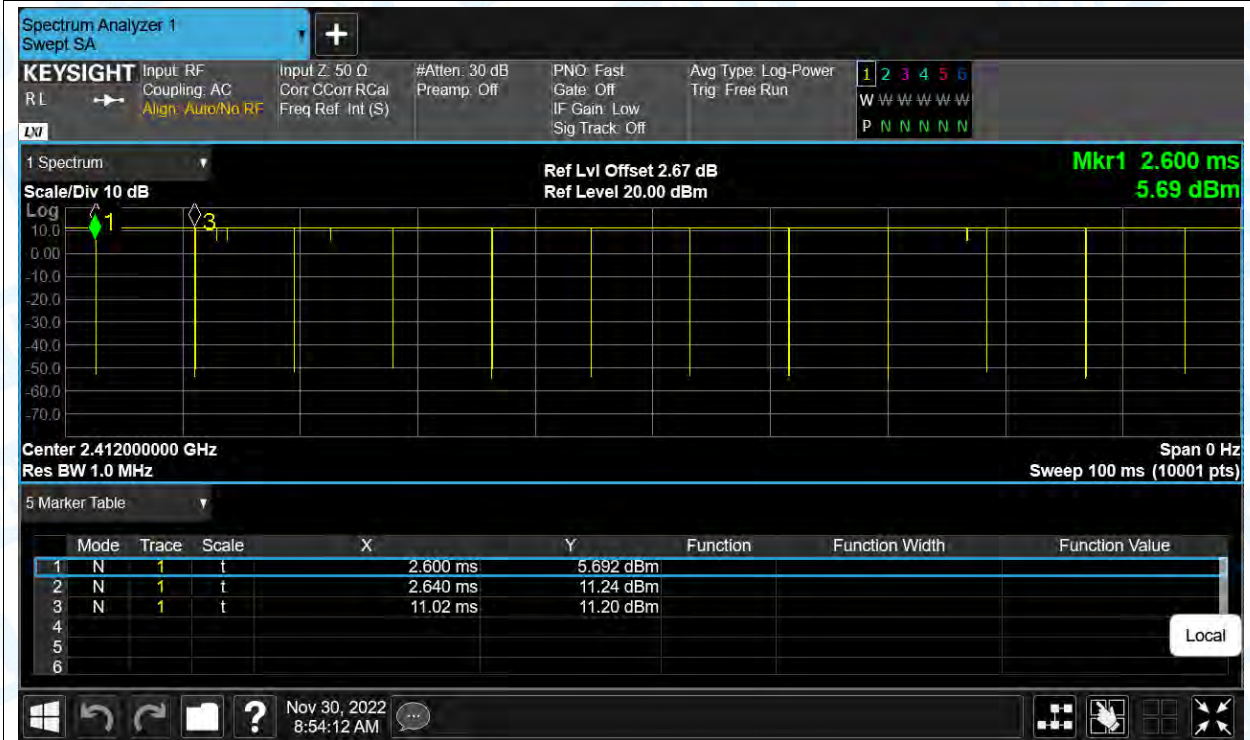
Note: Duty Cycle(%)=ON(ms)/(ON(ms)+OFF(ms))

ON(ms)=Maker3-Maker2

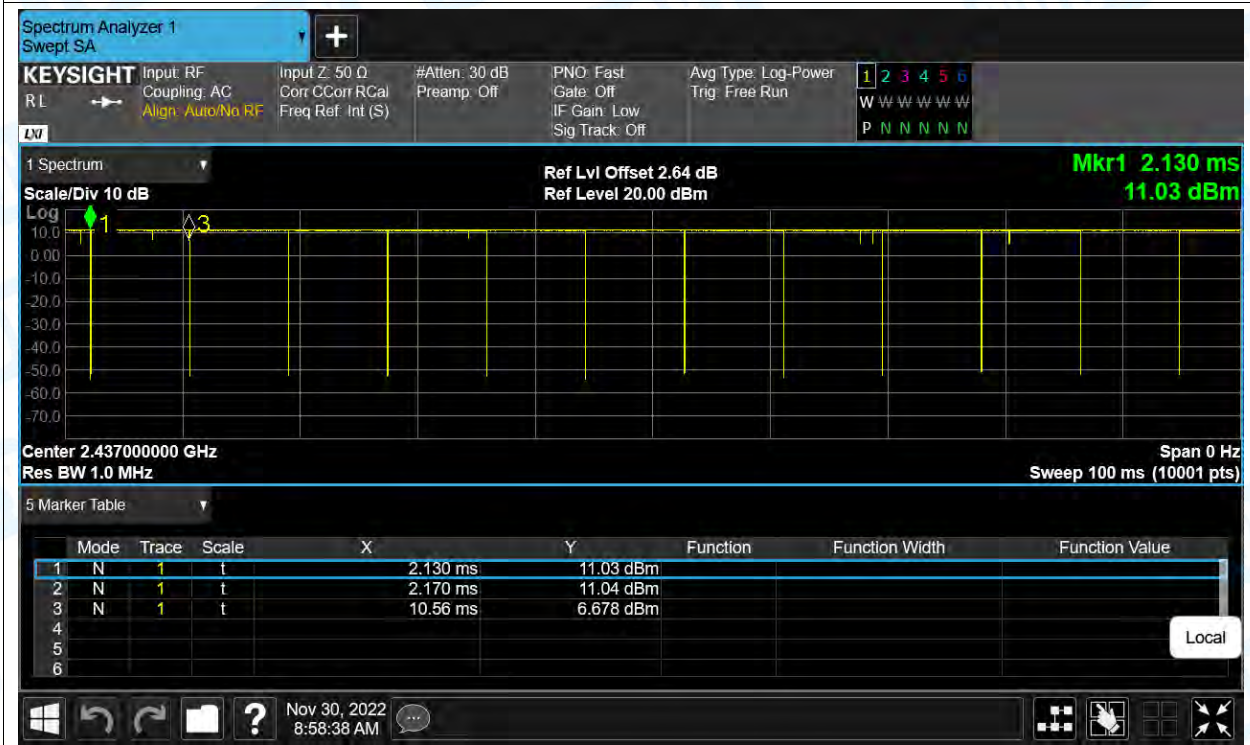
(ON(ms)+OFF(ms))=Maker3-Maker1

Test Graphs

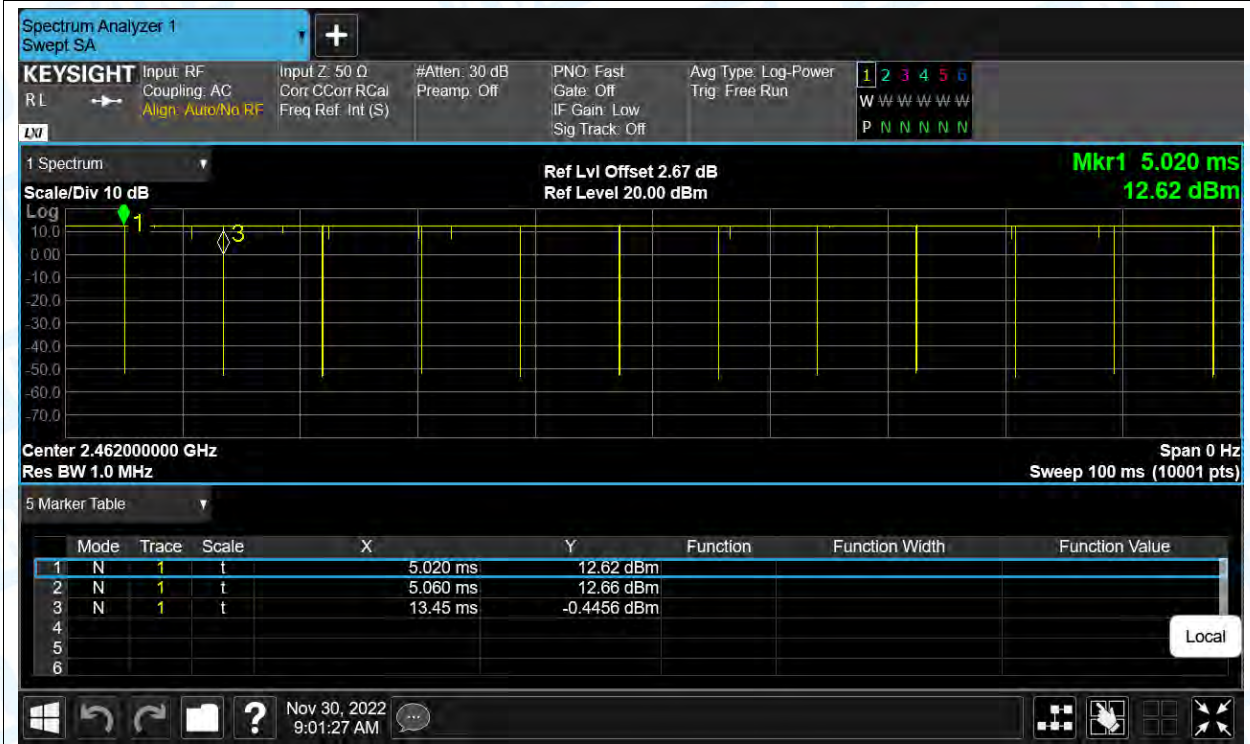
Duty Cycle NVNT b 2412MHz Ant1



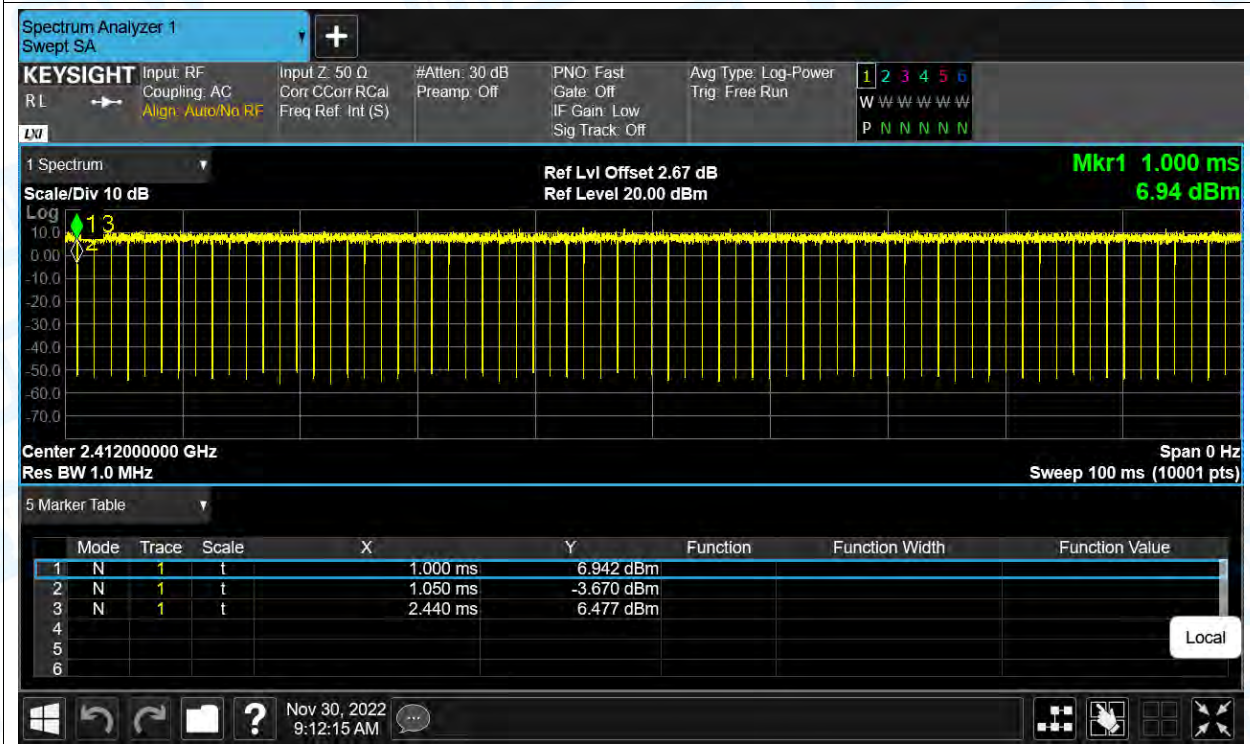
Duty Cycle NVNT b 2437MHz Ant1

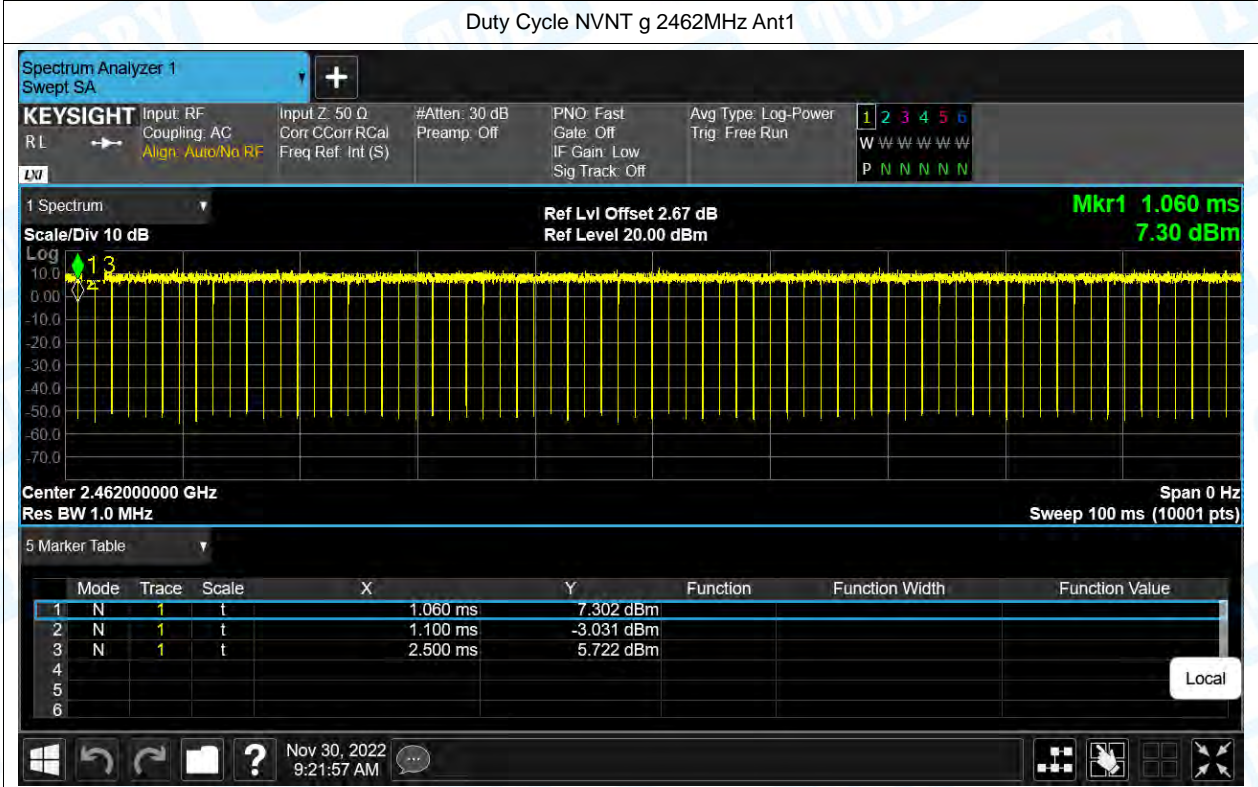
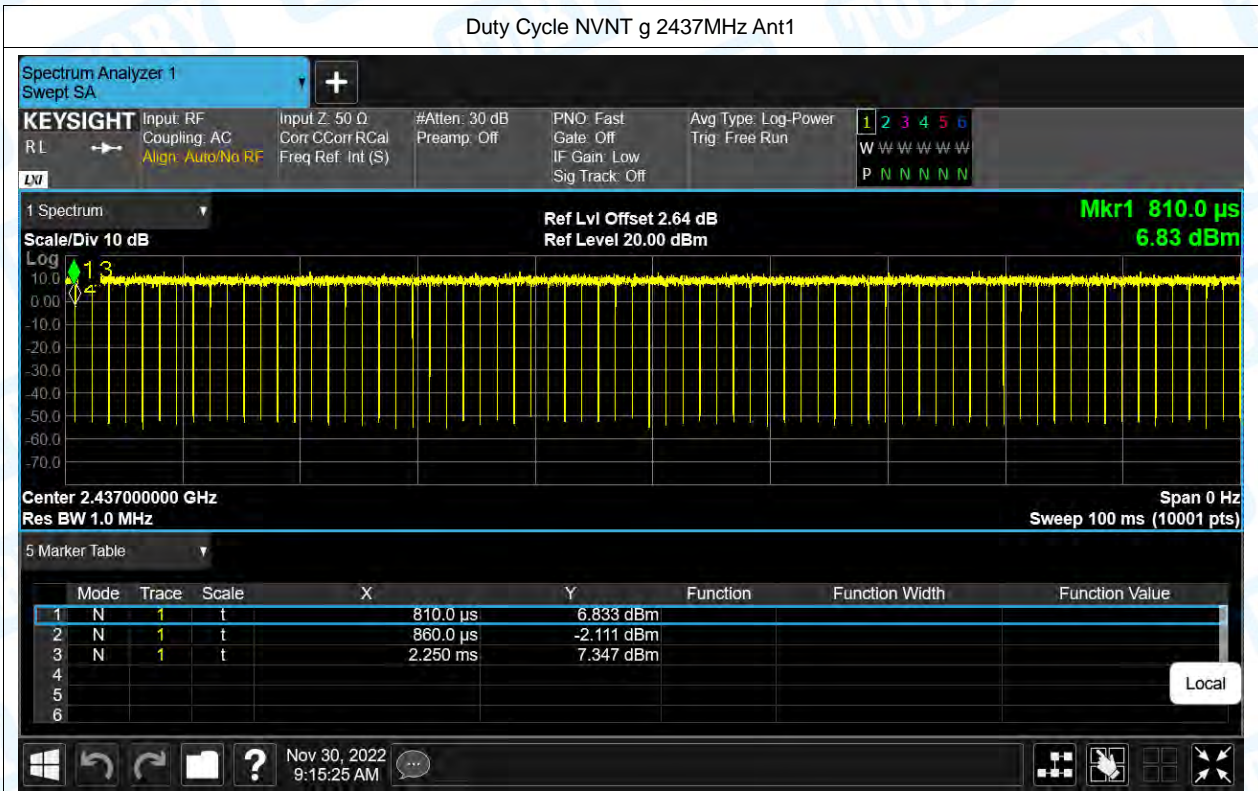


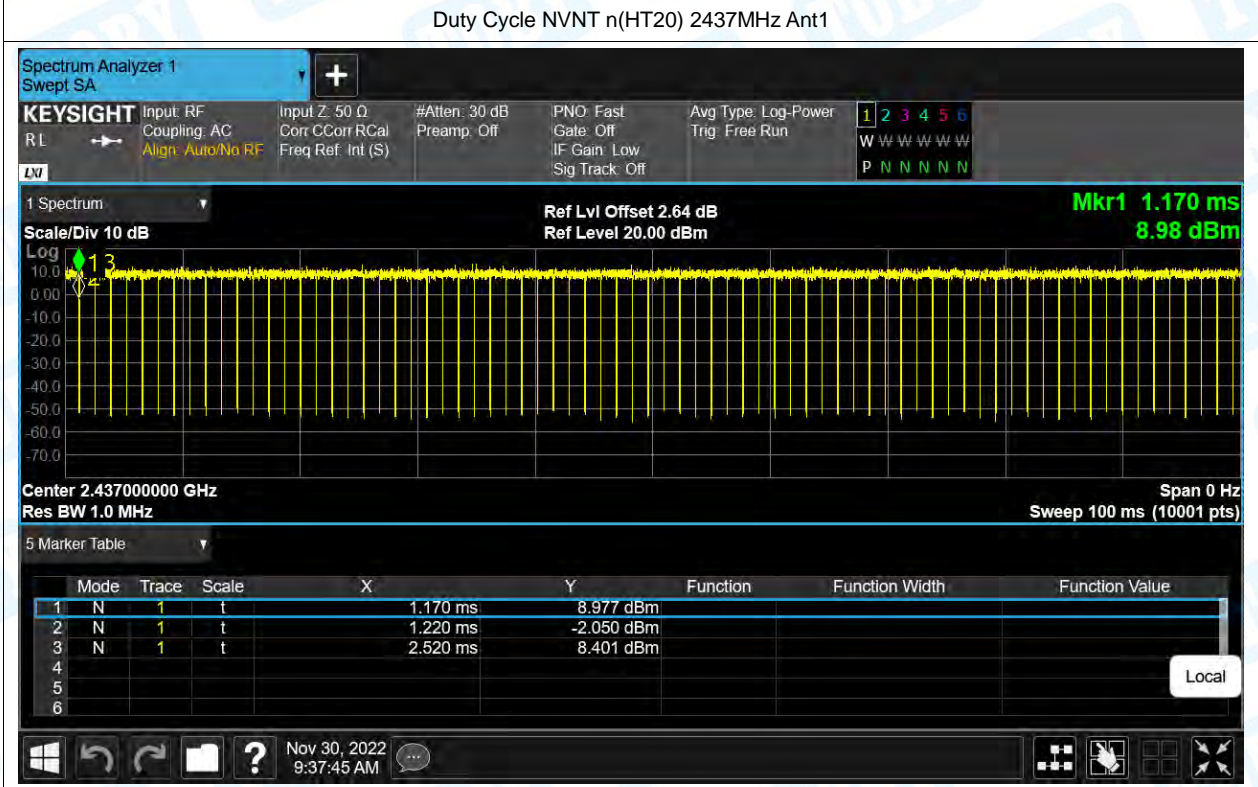
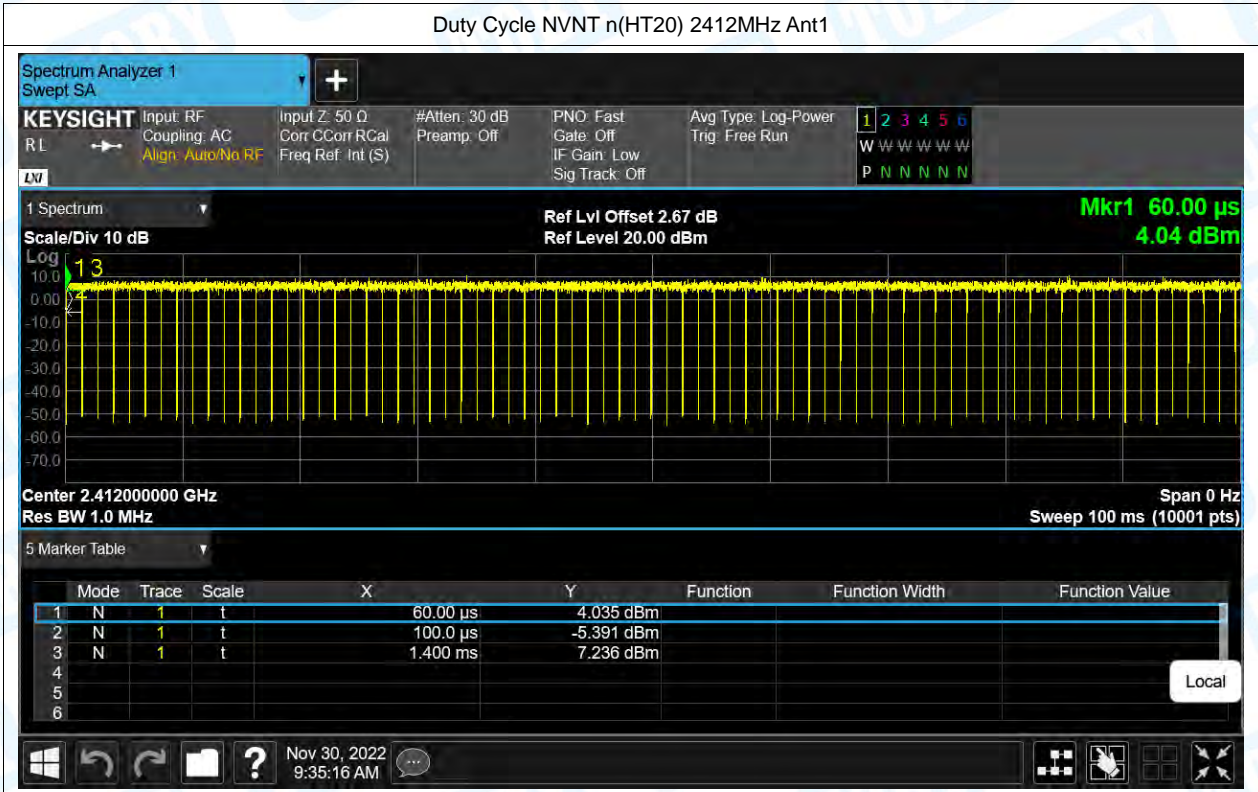
Duty Cycle NVNT b 2462MHz Ant1

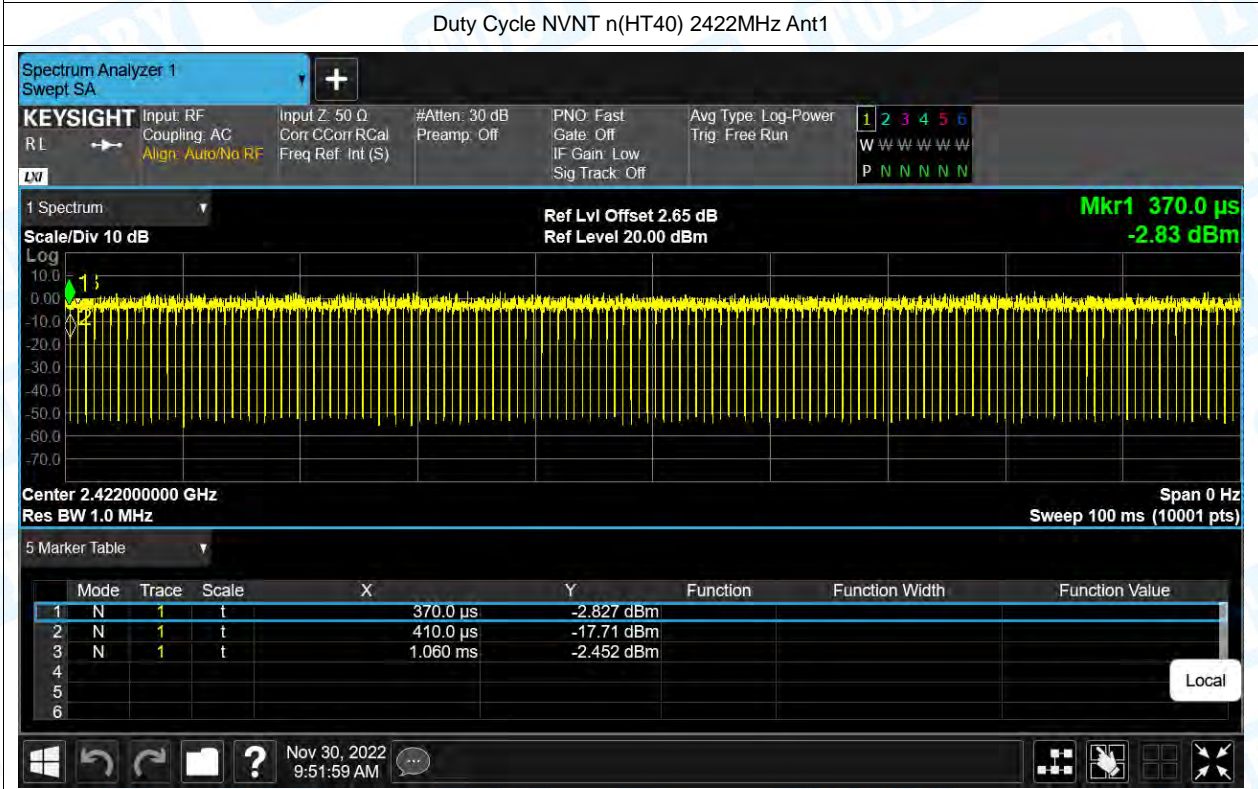
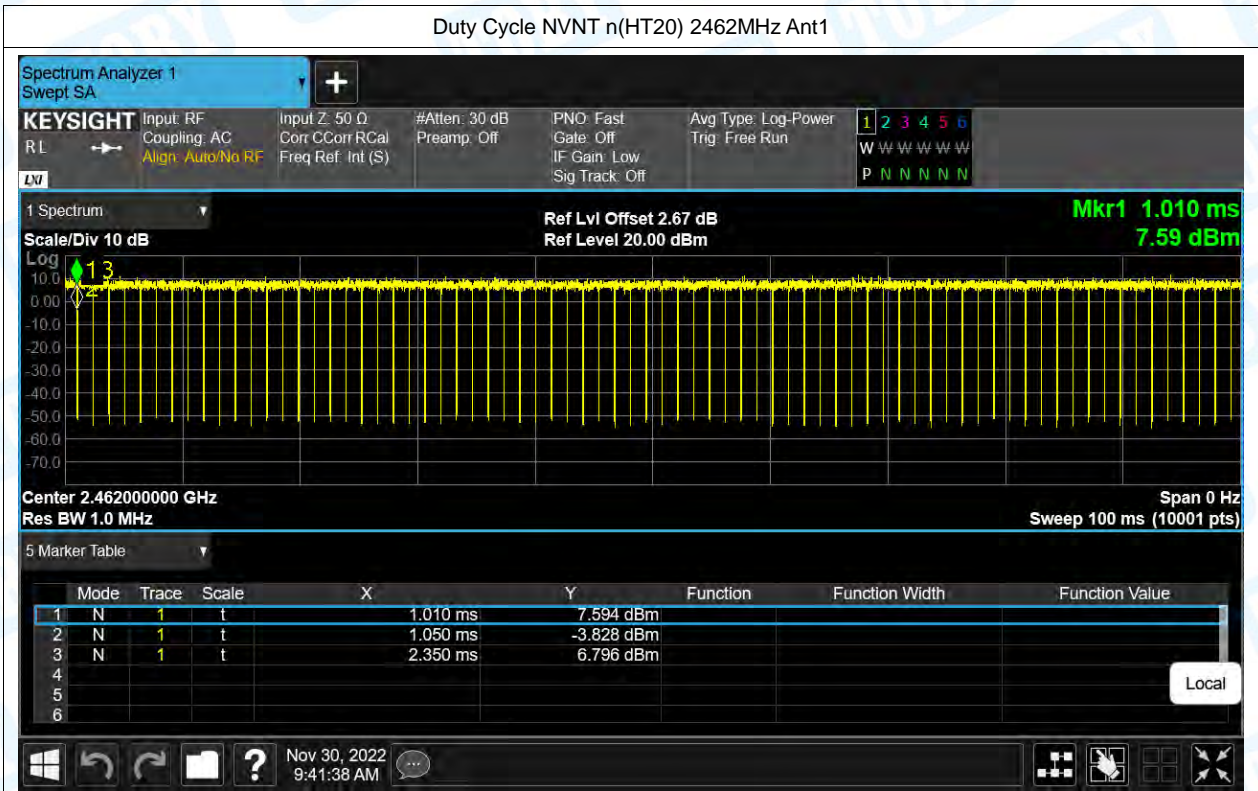


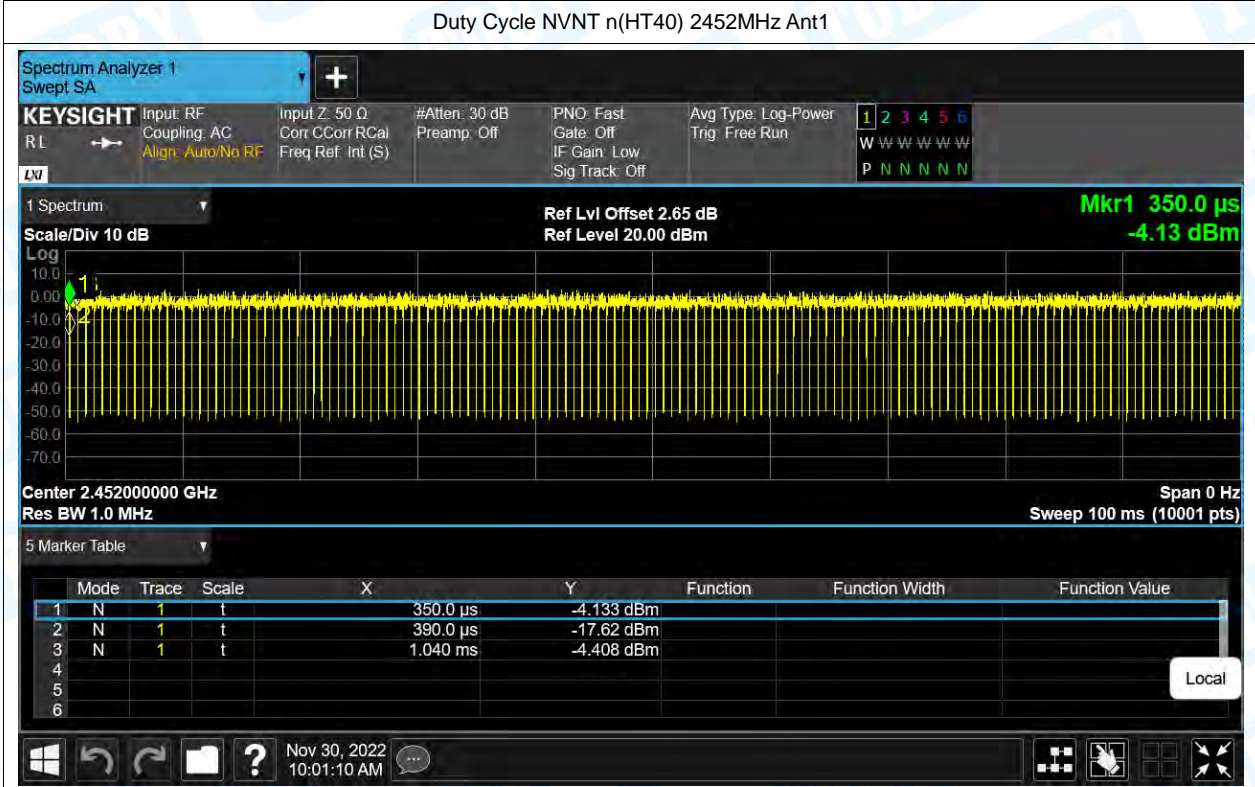
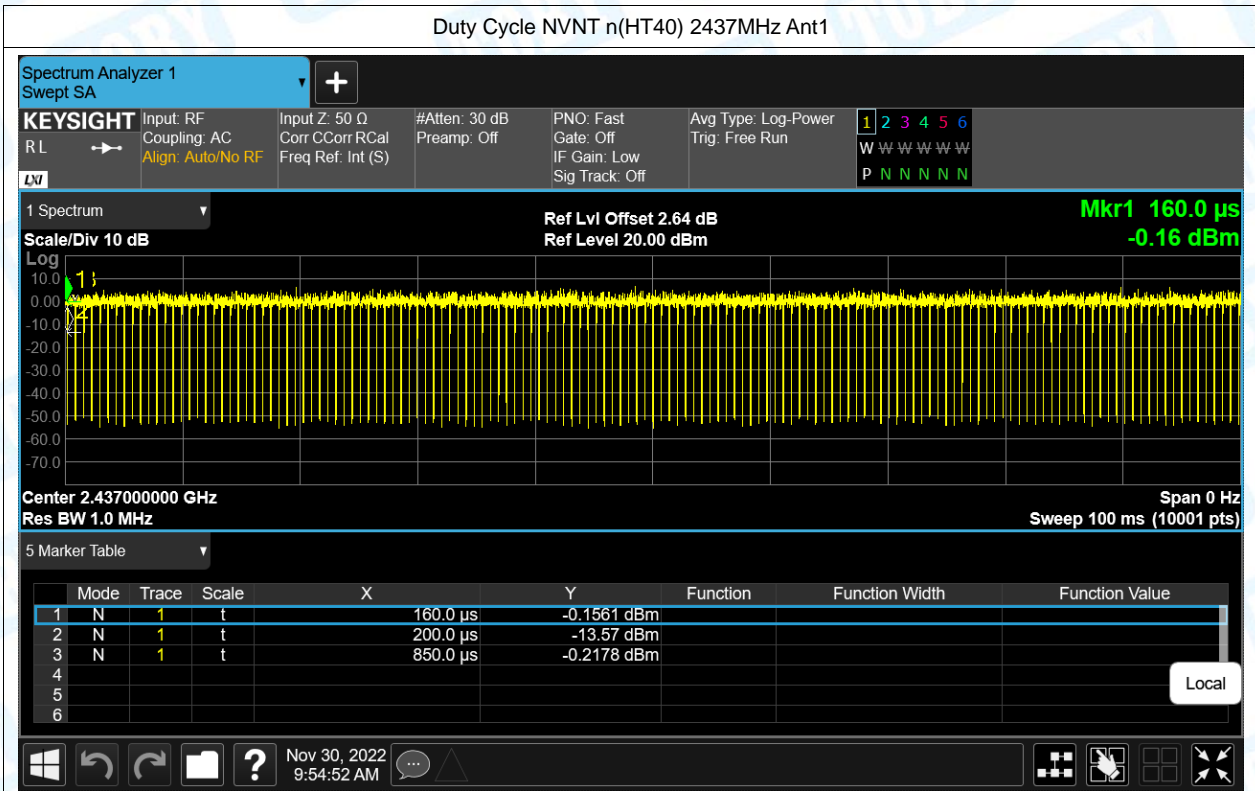
Duty Cycle NVNT g 2412MHz Ant1











2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.35	30	Pass
NVNT	b	2437	Ant1	16.63	30	Pass
NVNT	b	2462	Ant1	16.93	30	Pass
NVNT	g	2412	Ant1	14.17	30	Pass
NVNT	g	2437	Ant1	15.52	30	Pass
NVNT	g	2462	Ant1	14.62	30	Pass
NVNT	n(HT20)	2412	Ant1	12.47	30	Pass
NVNT	n(HT20)	2437	Ant1	15.49	30	Pass
NVNT	n(HT20)	2462	Ant1	13.82	30	Pass
NVNT	n(HT40)	2422	Ant1	10.46	30	Pass
NVNT	n(HT40)	2437	Ant1	12.95	30	Pass
NVNT	n(HT40)	2452	Ant1	10.51	30	Pass

3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.55	0.5	Pass
NVNT	b	2437	Ant1	8.03	0.5	Pass
NVNT	b	2462	Ant1	8.05	0.5	Pass
NVNT	g	2412	Ant1	15.11	0.5	Pass
NVNT	g	2437	Ant1	13.70	0.5	Pass
NVNT	g	2462	Ant1	14.67	0.5	Pass
NVNT	n(HT20)	2412	Ant1	15.32	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.00	0.5	Pass
NVNT	n(HT20)	2462	Ant1	15.33	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.11	0.5	Pass
NVNT	n(HT40)	2437	Ant1	33.87	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.01	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



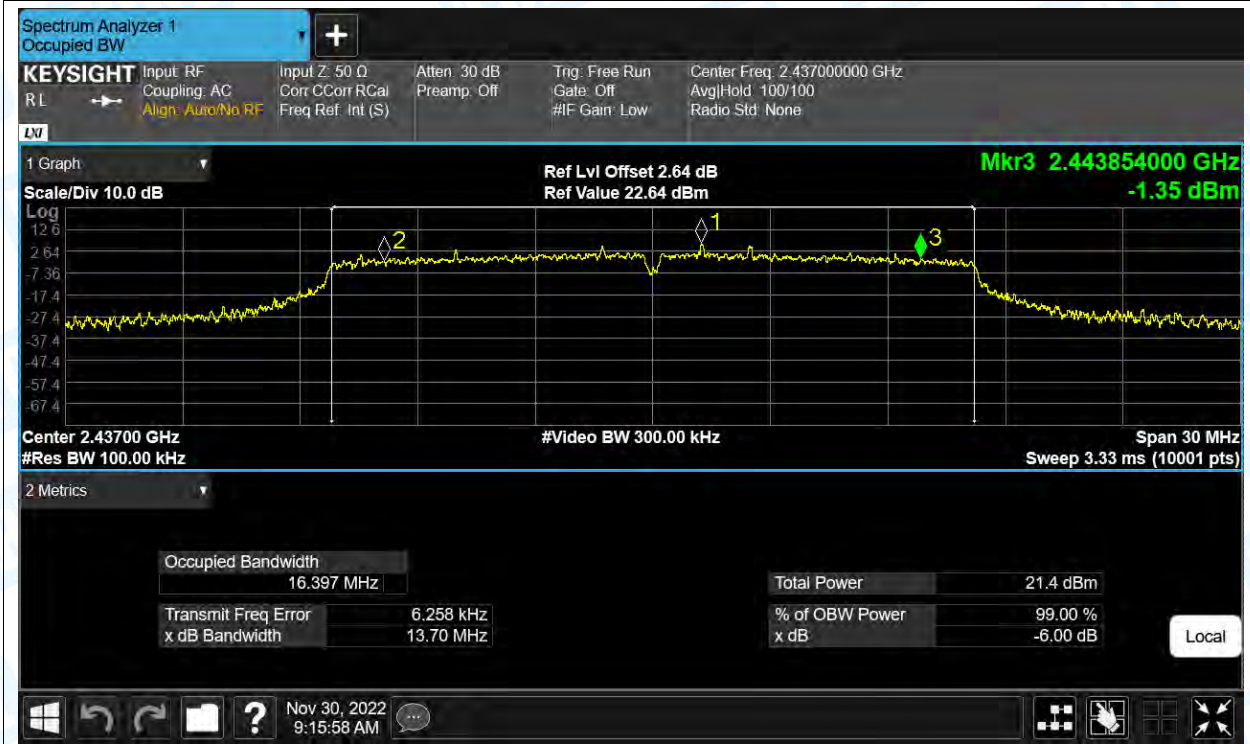
-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



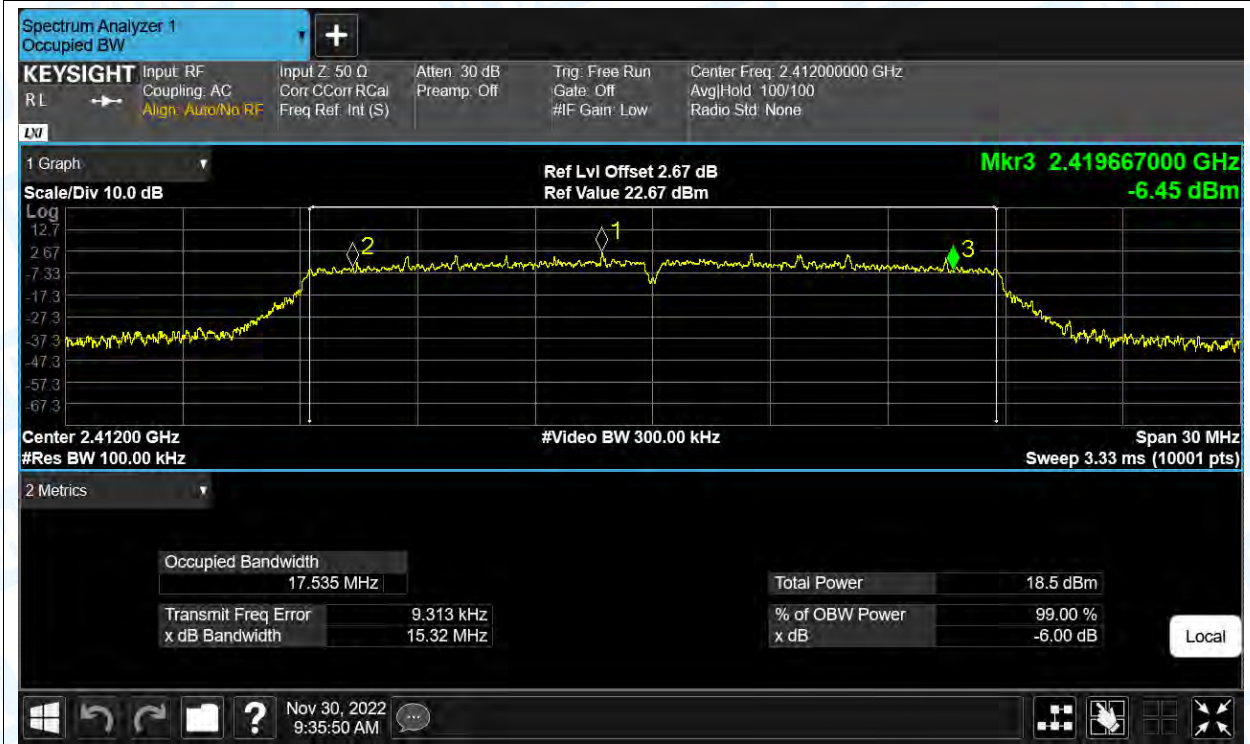
-6dB Bandwidth NVNT g 2437MHz Ant1



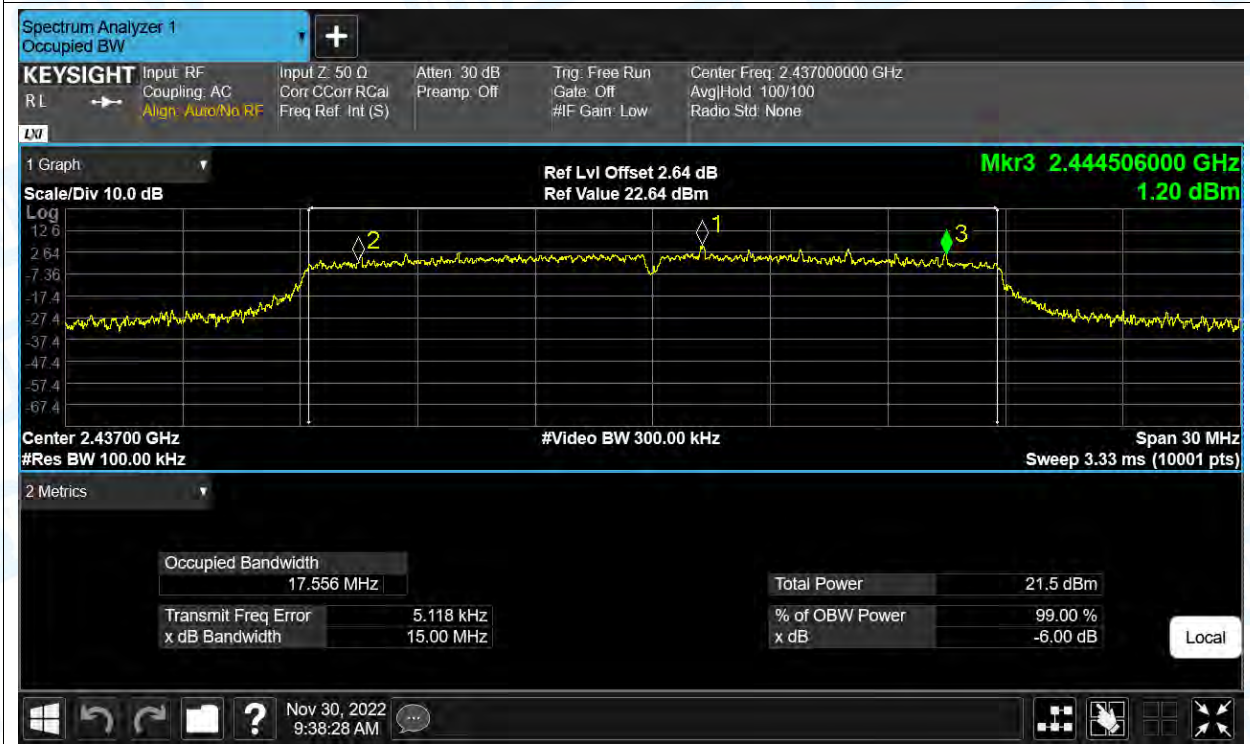
-6dB Bandwidth NVNT g 2462MHz Ant1



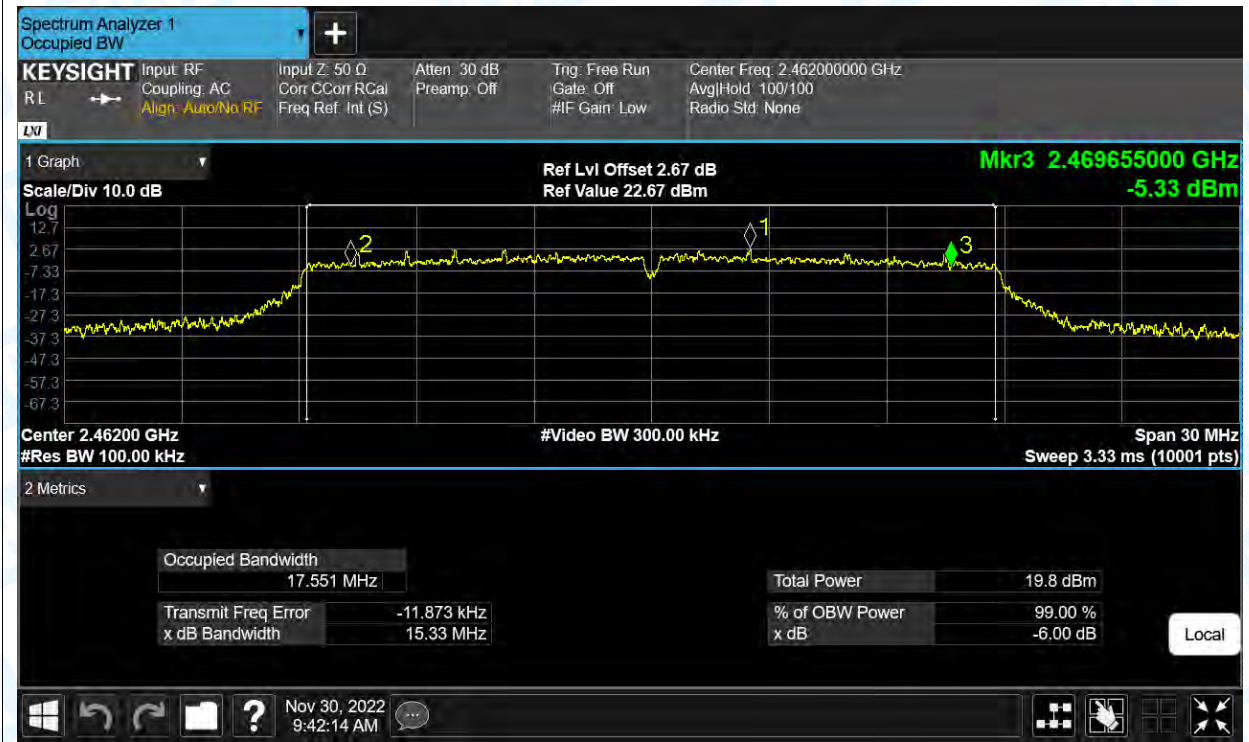
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



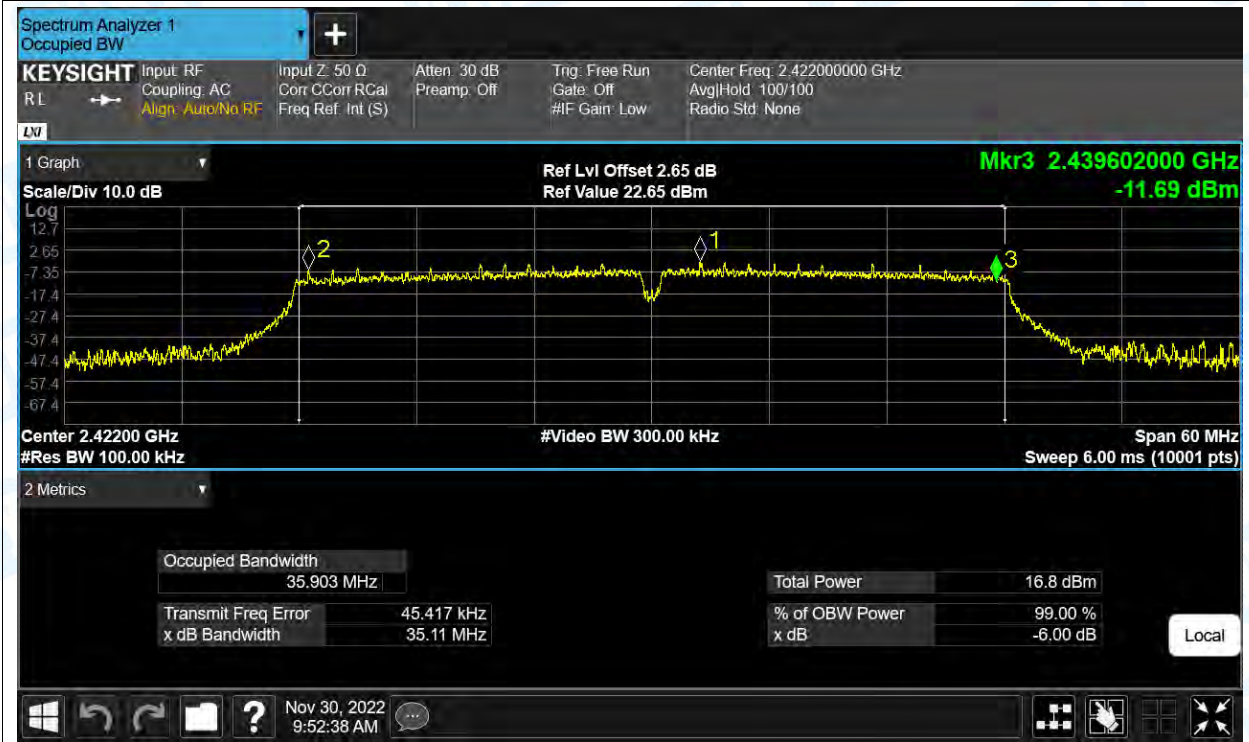
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



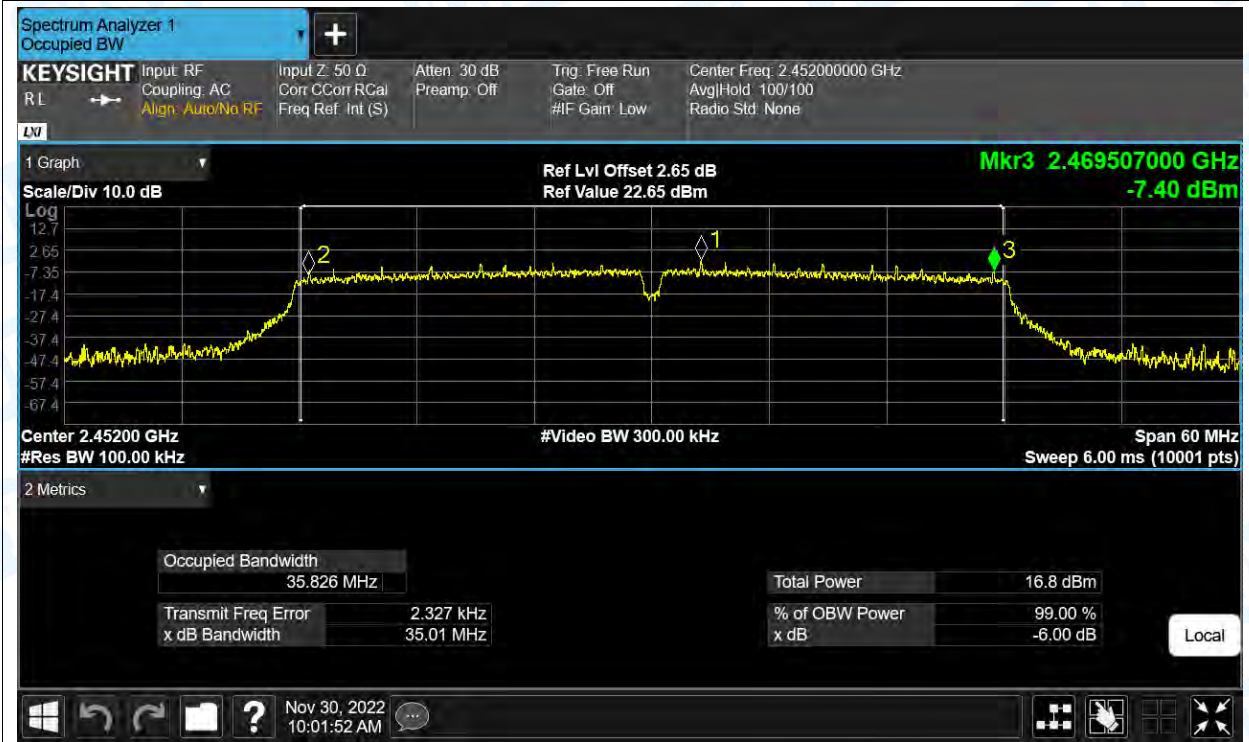
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1



4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.926
NVNT	b	2437	Ant1	12.911
NVNT	b	2462	Ant1	12.997
NVNT	g	2412	Ant1	16.426
NVNT	g	2437	Ant1	16.483
NVNT	g	2462	Ant1	16.406
NVNT	n(HT20)	2412	Ant1	17.563
NVNT	n(HT20)	2437	Ant1	17.625
NVNT	n(HT20)	2462	Ant1	17.563
NVNT	n(HT40)	2422	Ant1	36
NVNT	n(HT40)	2437	Ant1	35.965
NVNT	n(HT40)	2452	Ant1	35.958

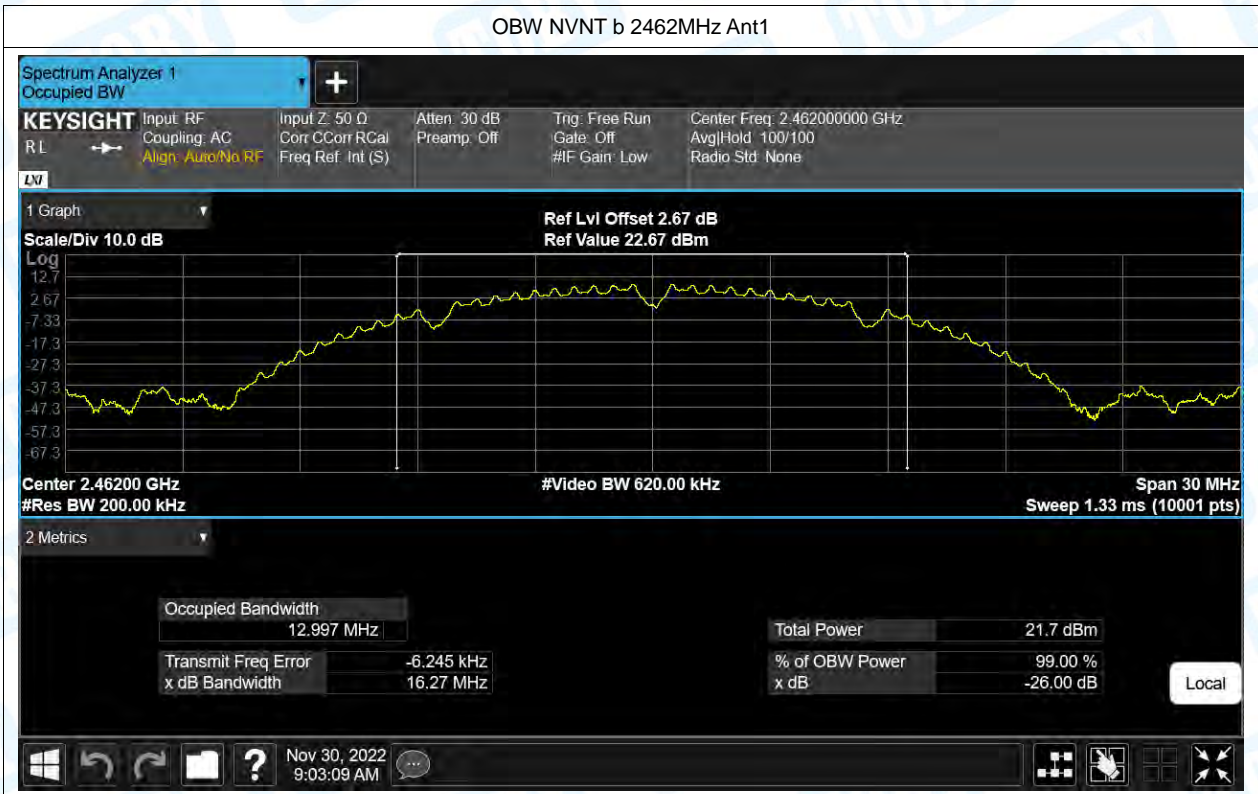
Test Graphs

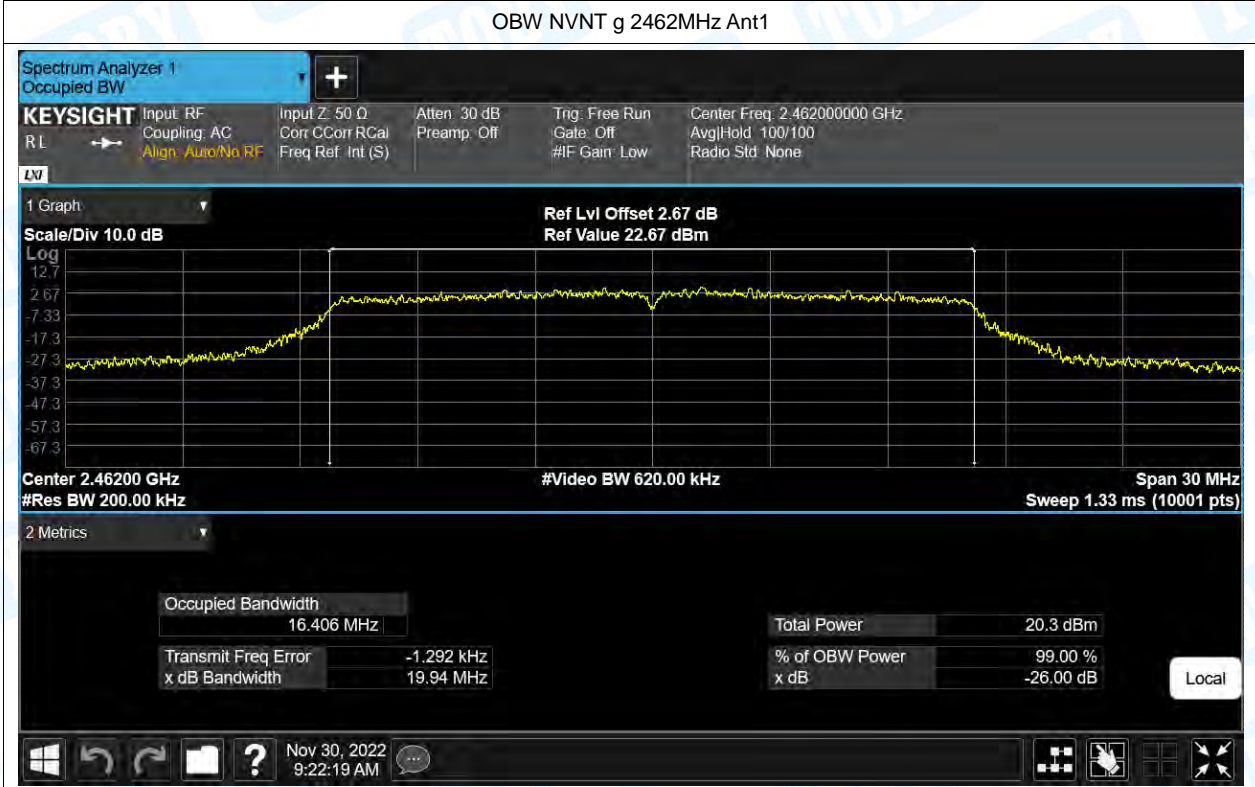
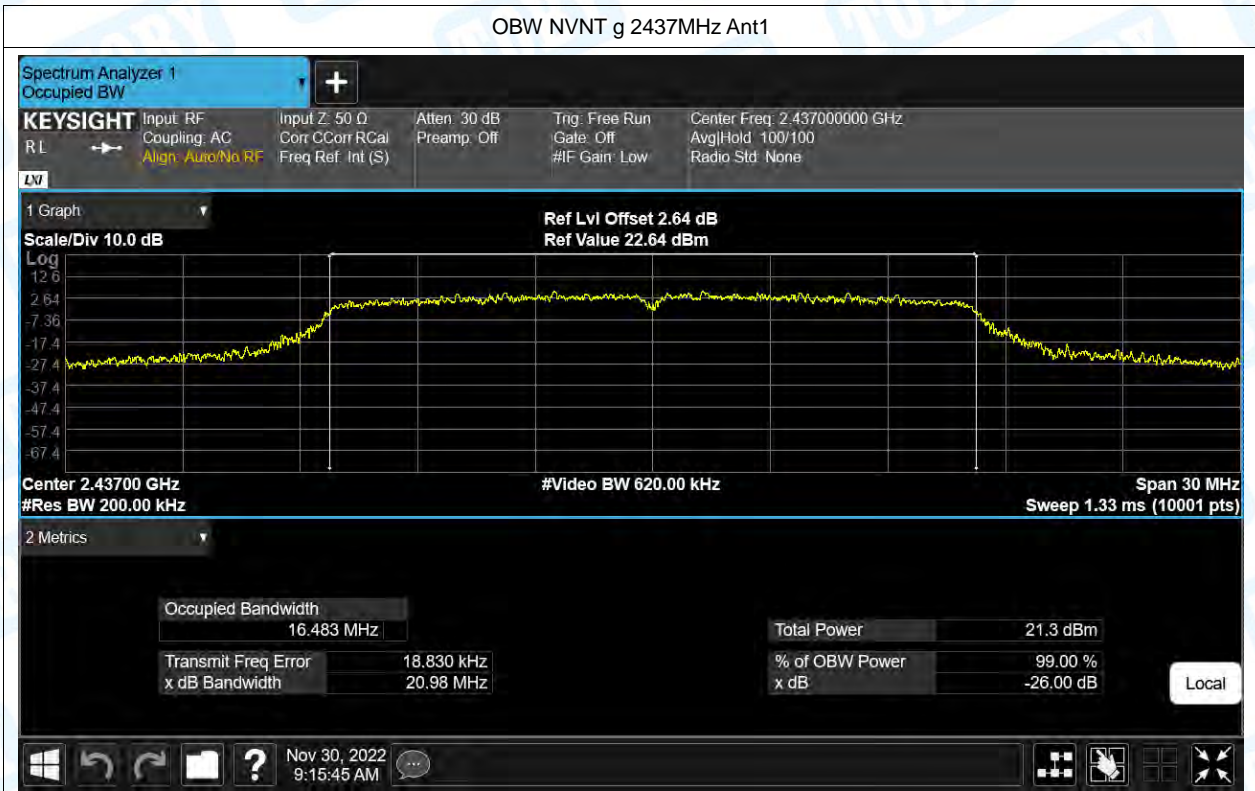
OBW NVNT b 2412MHz Ant1

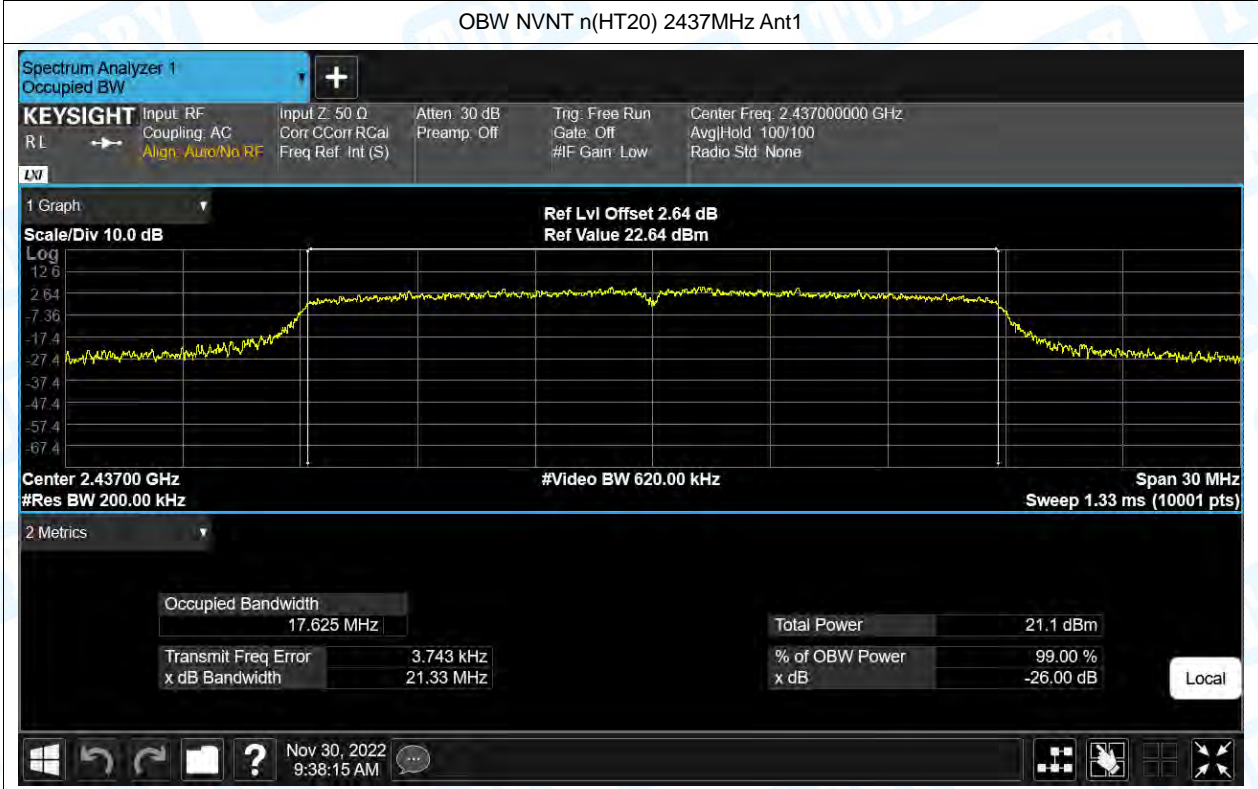


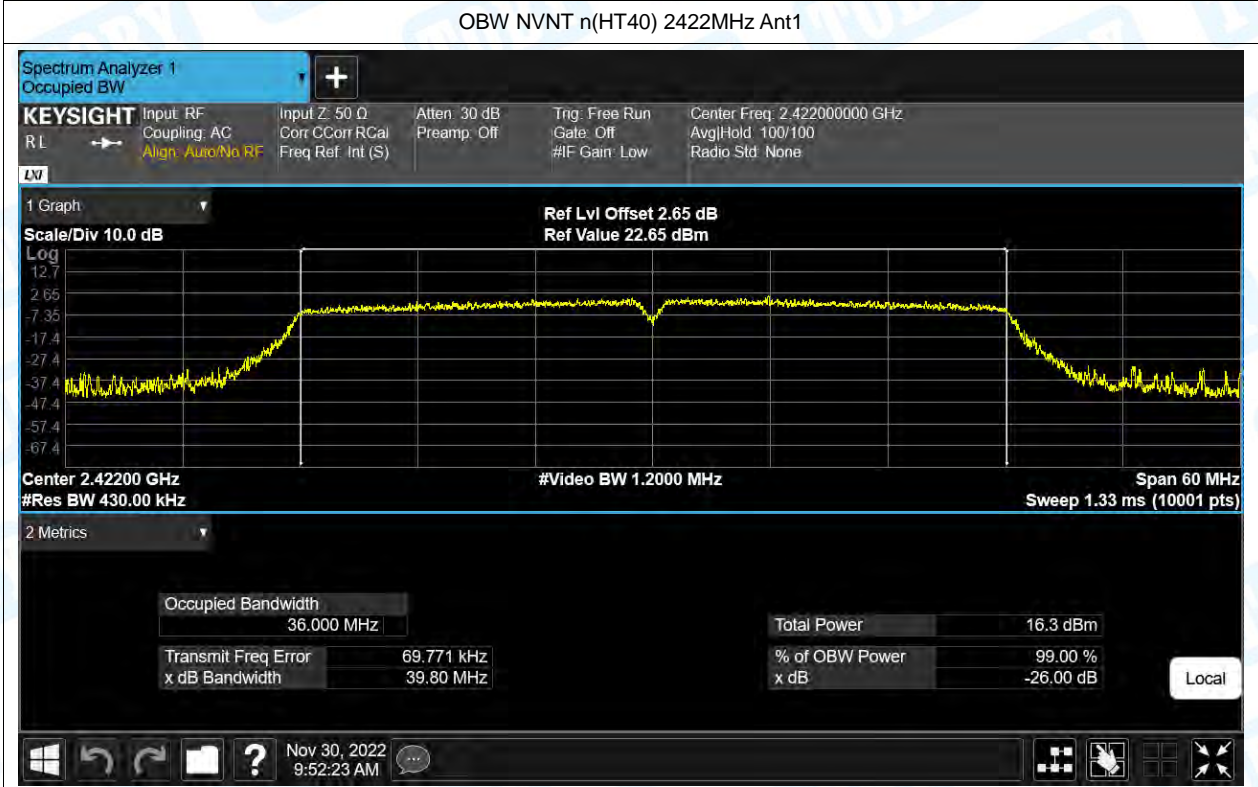
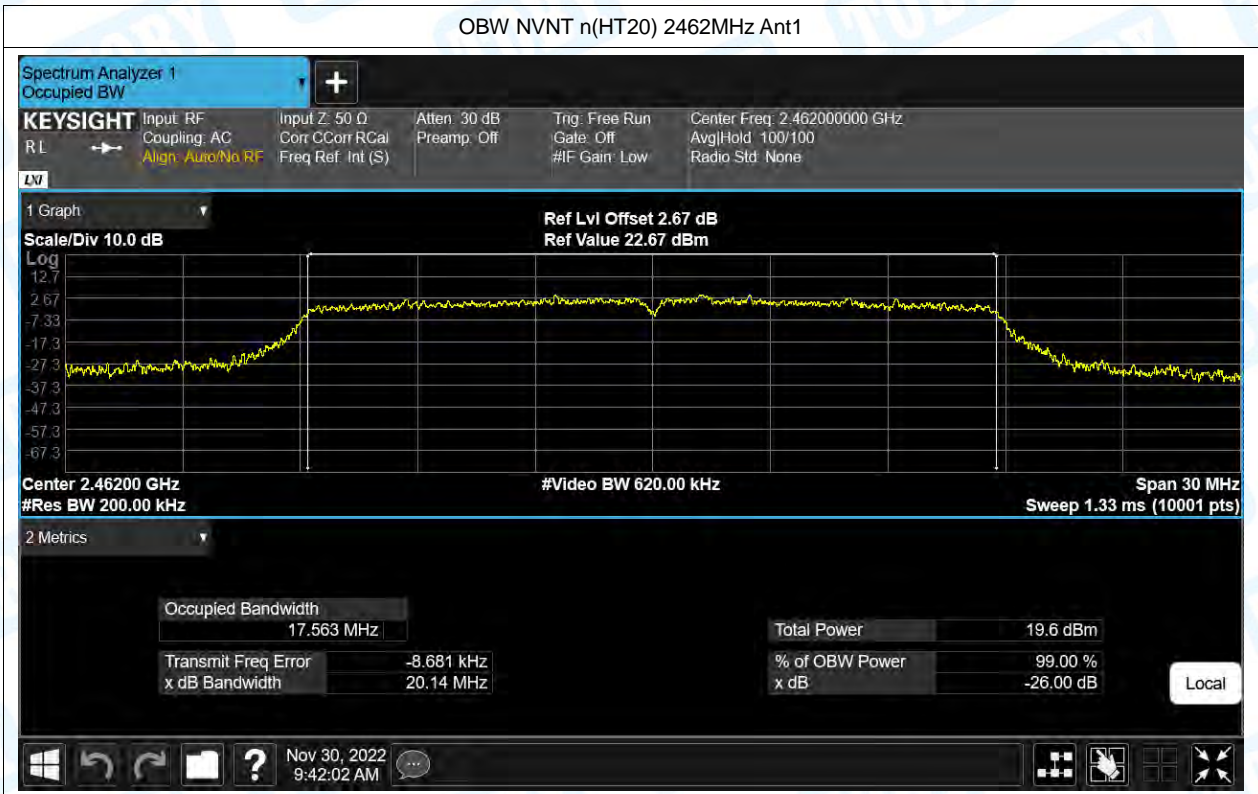
OBW NVNT b 2437MHz Ant1

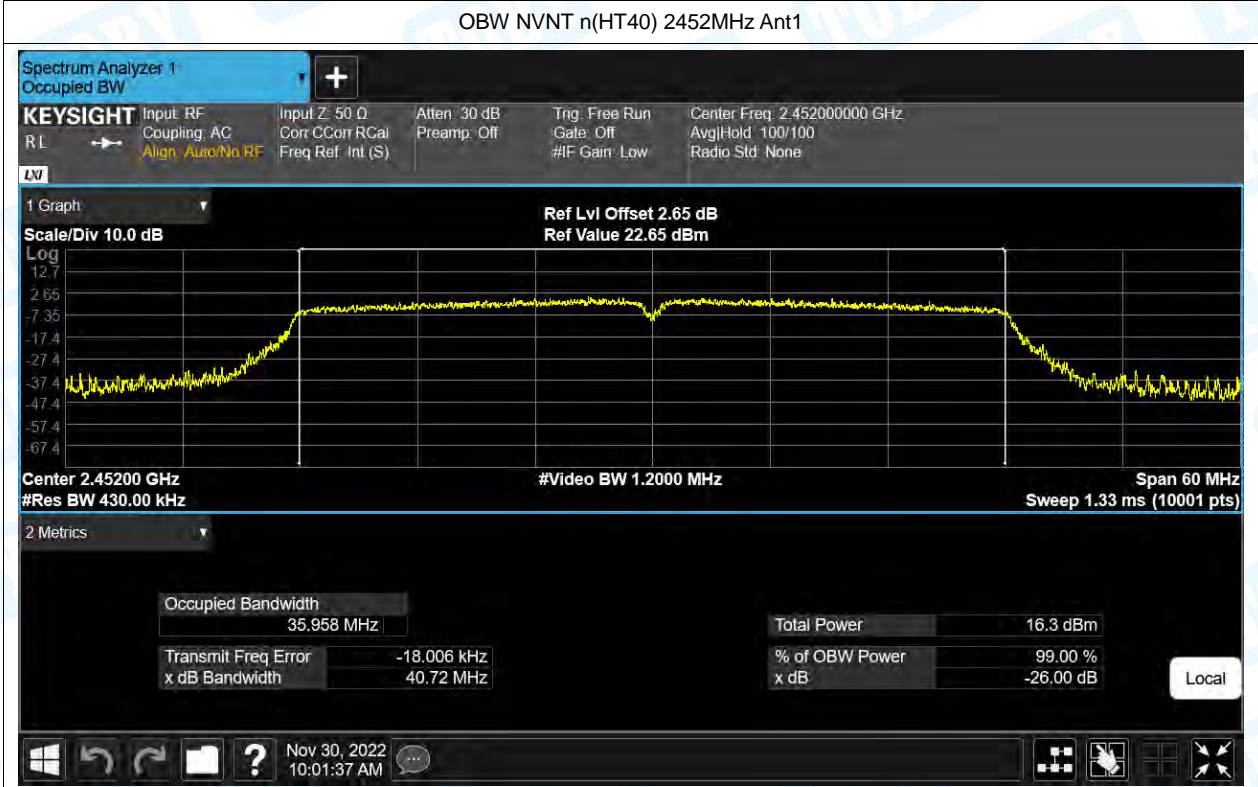
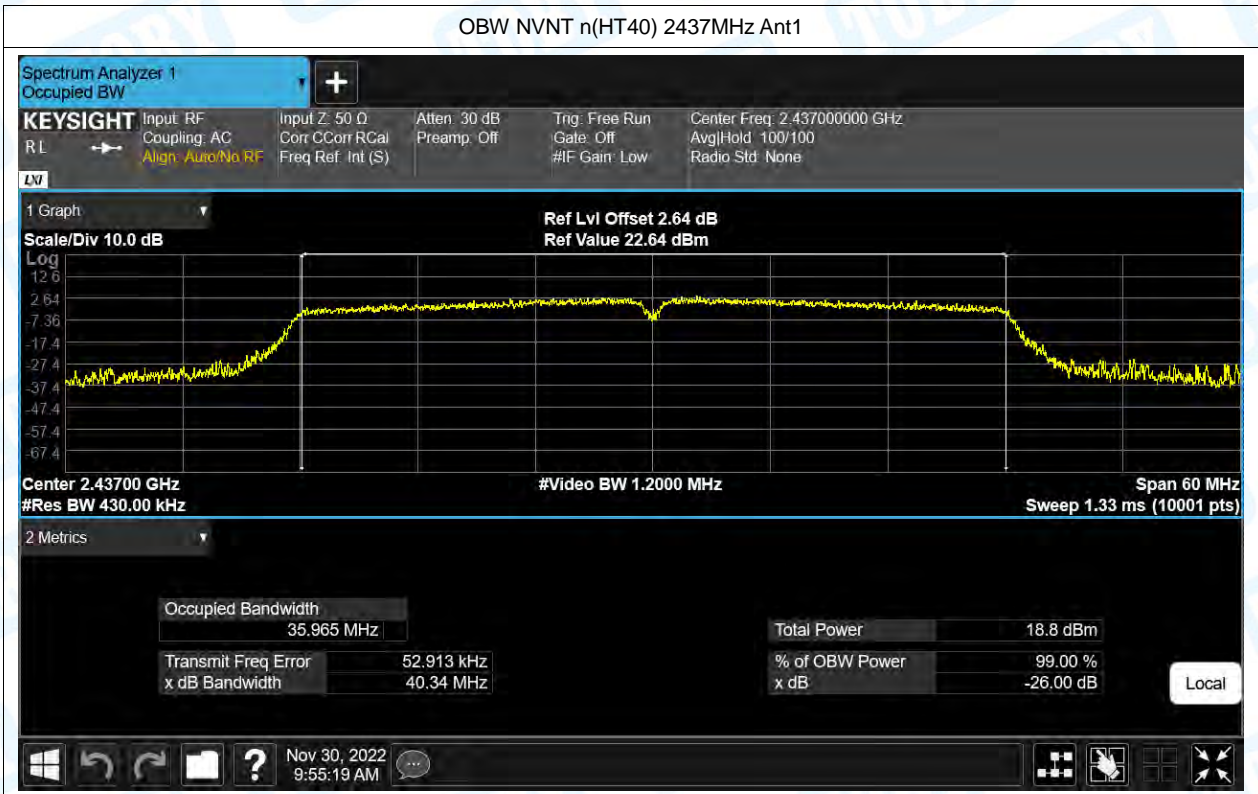










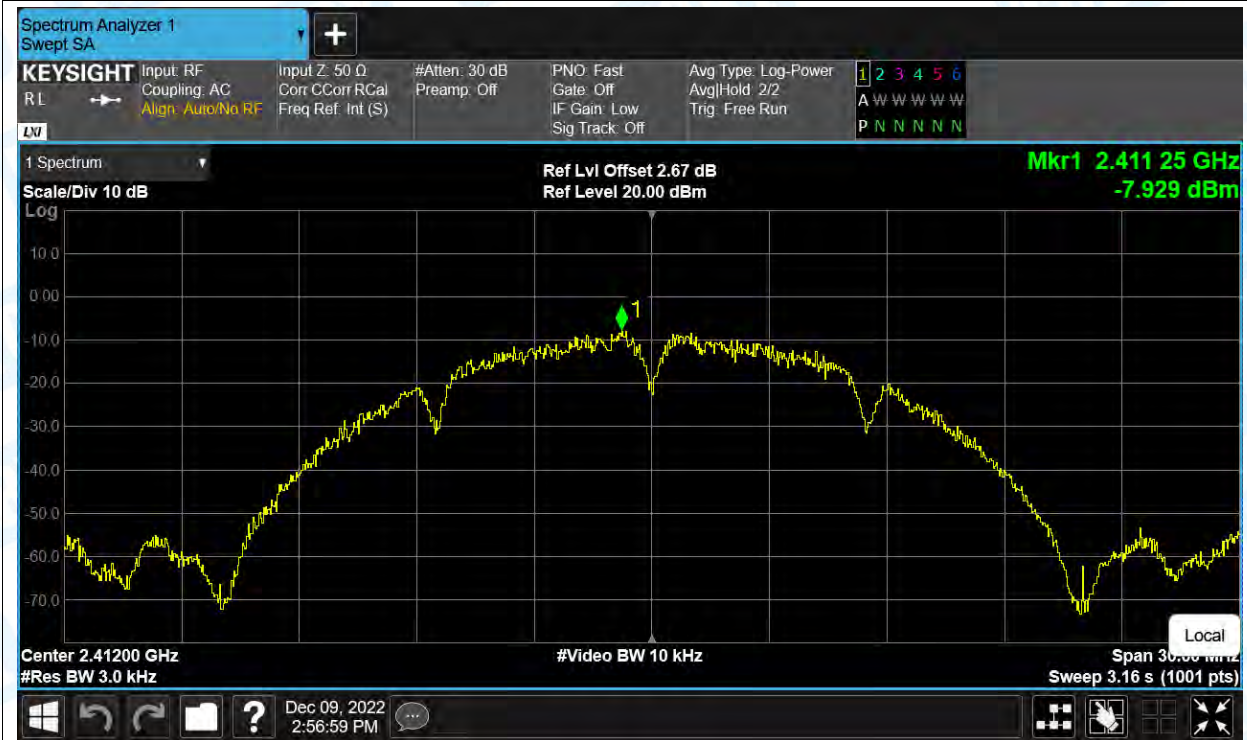


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-7.929	8	Pass
NVNT	b	2437	Ant1	-6.321	8	Pass
NVNT	b	2462	Ant1	-7.73	8	Pass
NVNT	g	2412	Ant1	-11.565	8	Pass
NVNT	g	2437	Ant1	-11.327	8	Pass
NVNT	g	2462	Ant1	-11.671	8	Pass
NVNT	n(HT20)	2412	Ant1	-12.209	8	Pass
NVNT	n(HT20)	2437	Ant1	-12.021	8	Pass
NVNT	n(HT20)	2462	Ant1	-12.005	8	Pass
NVNT	n(HT40)	2422	Ant1	-16.241	8	Pass
NVNT	n(HT40)	2437	Ant1	-16.058	8	Pass
NVNT	n(HT40)	2452	Ant1	-15.893	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



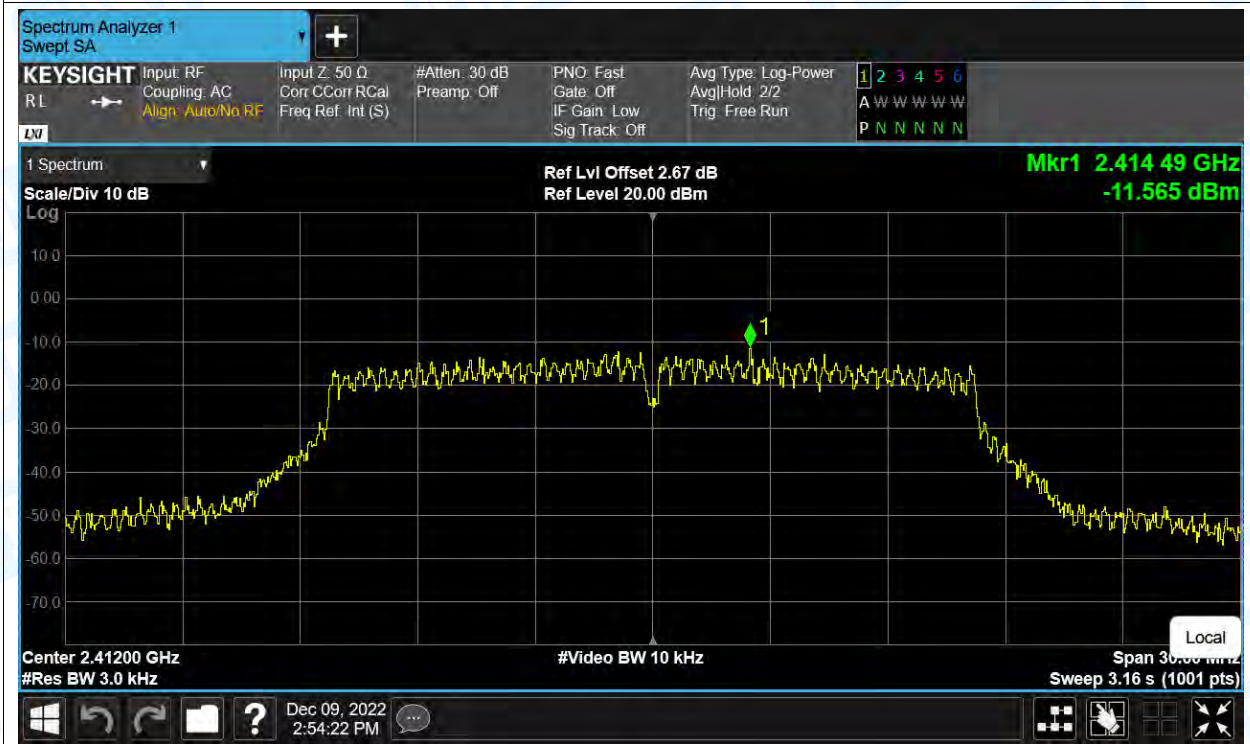
PSD NVNT b 2437MHz Ant1



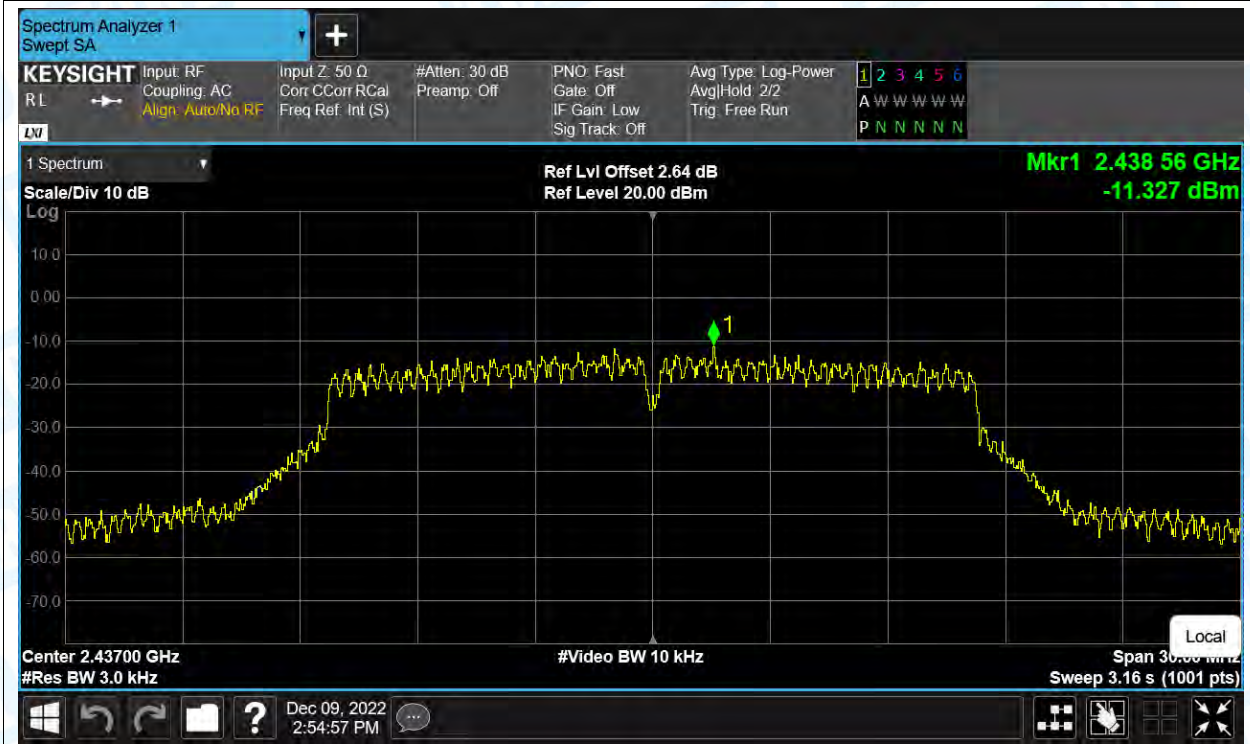
PSD NVNT b 2462MHz Ant1



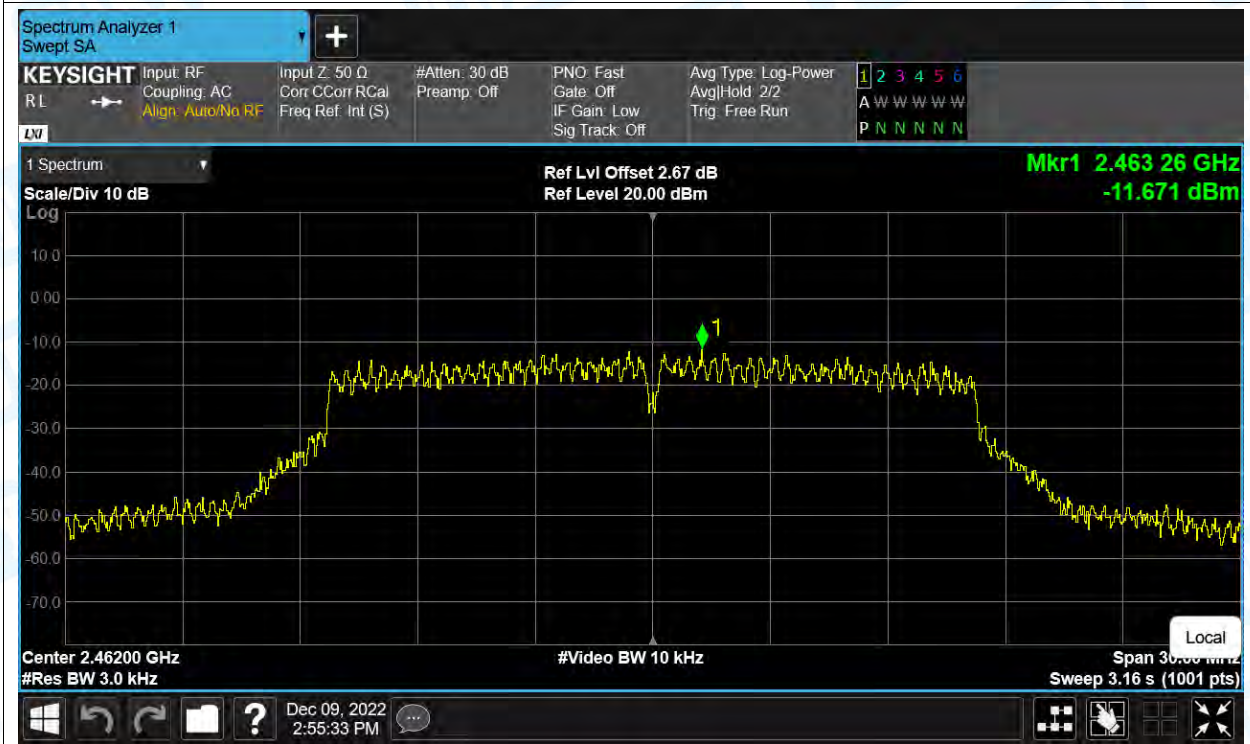
PSD NVNT g 2412MHz Ant1



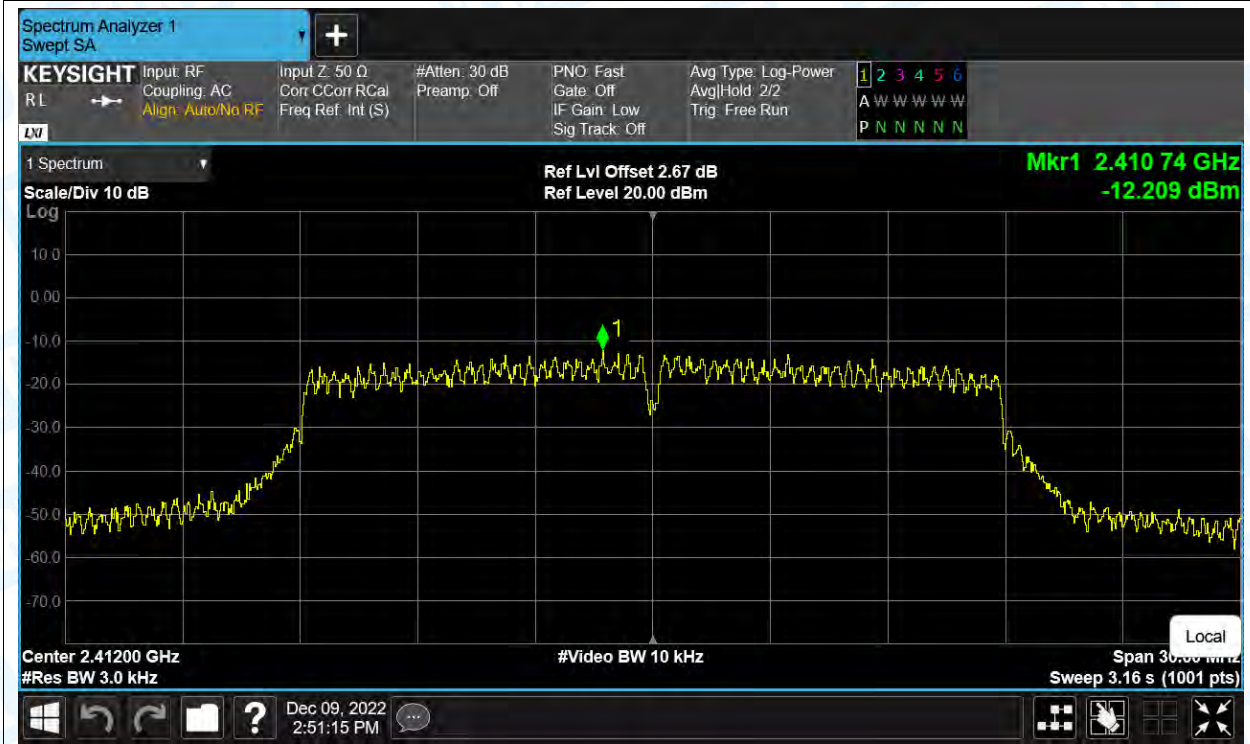
PSD NVNT g 2437MHz Ant1



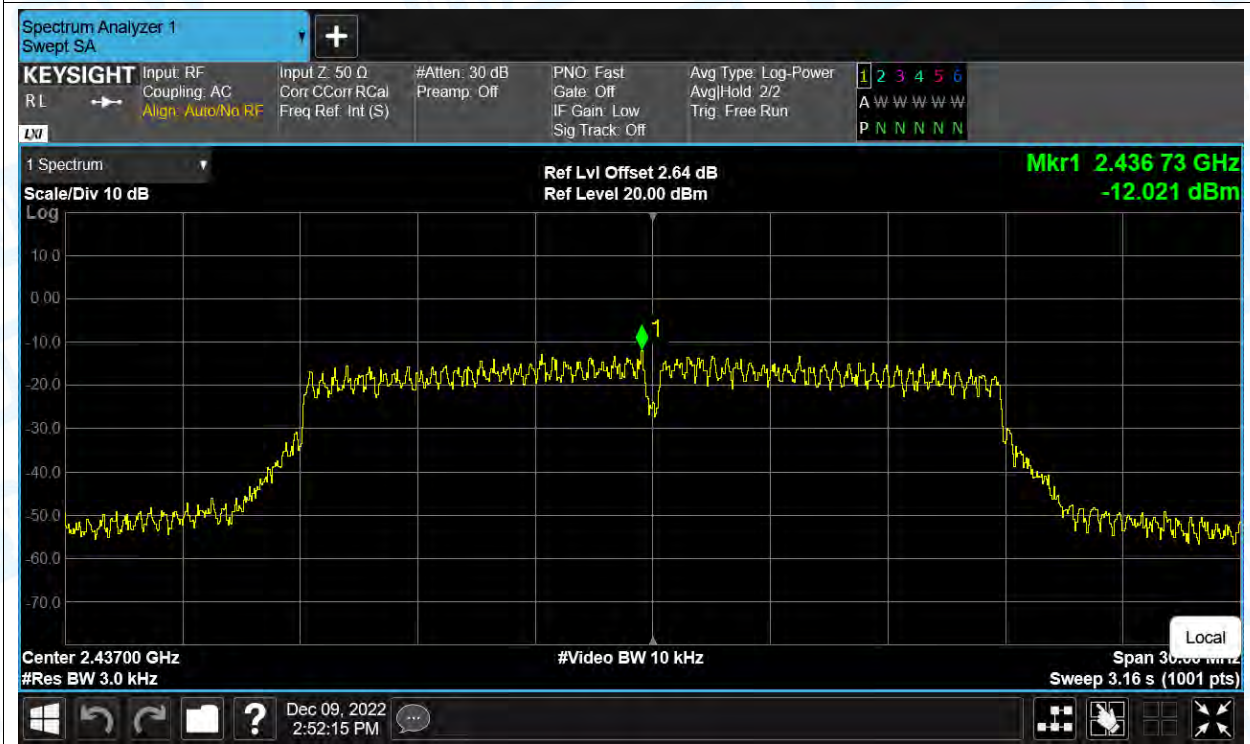
PSD NVNT g 2462MHz Ant1

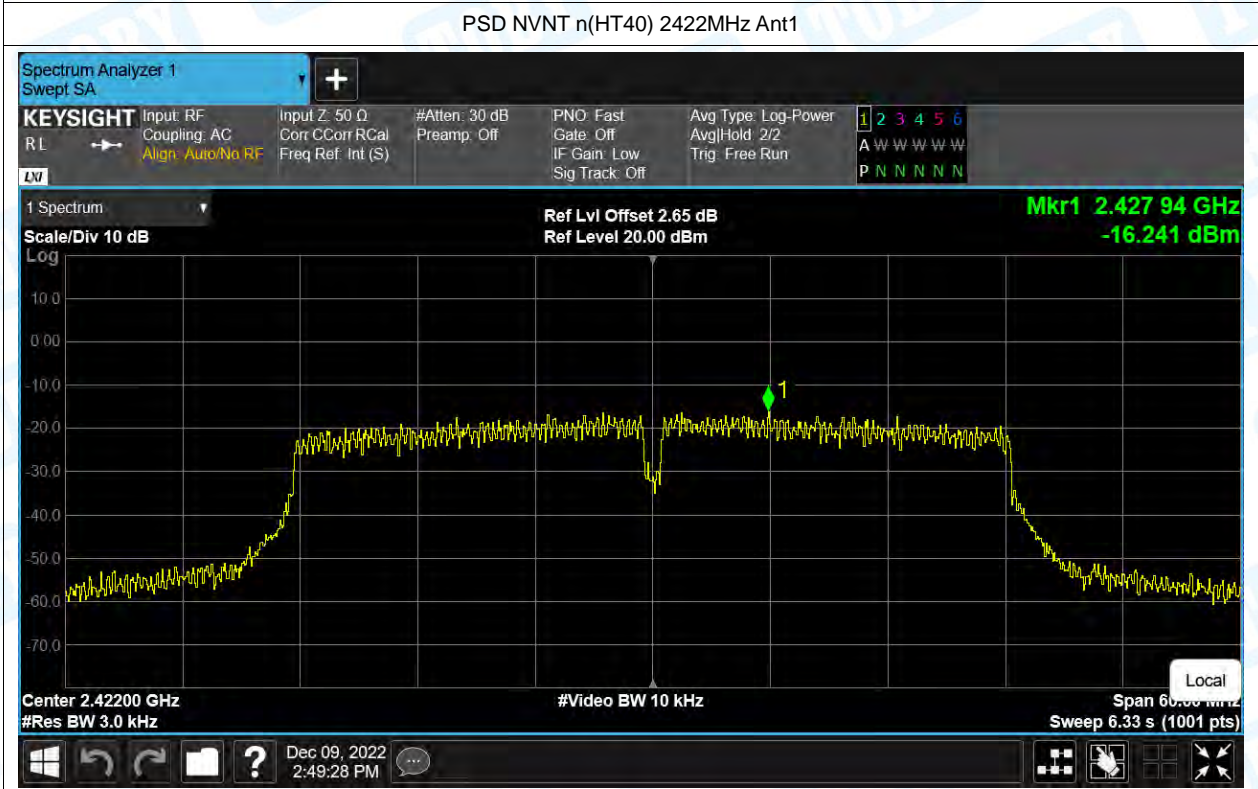
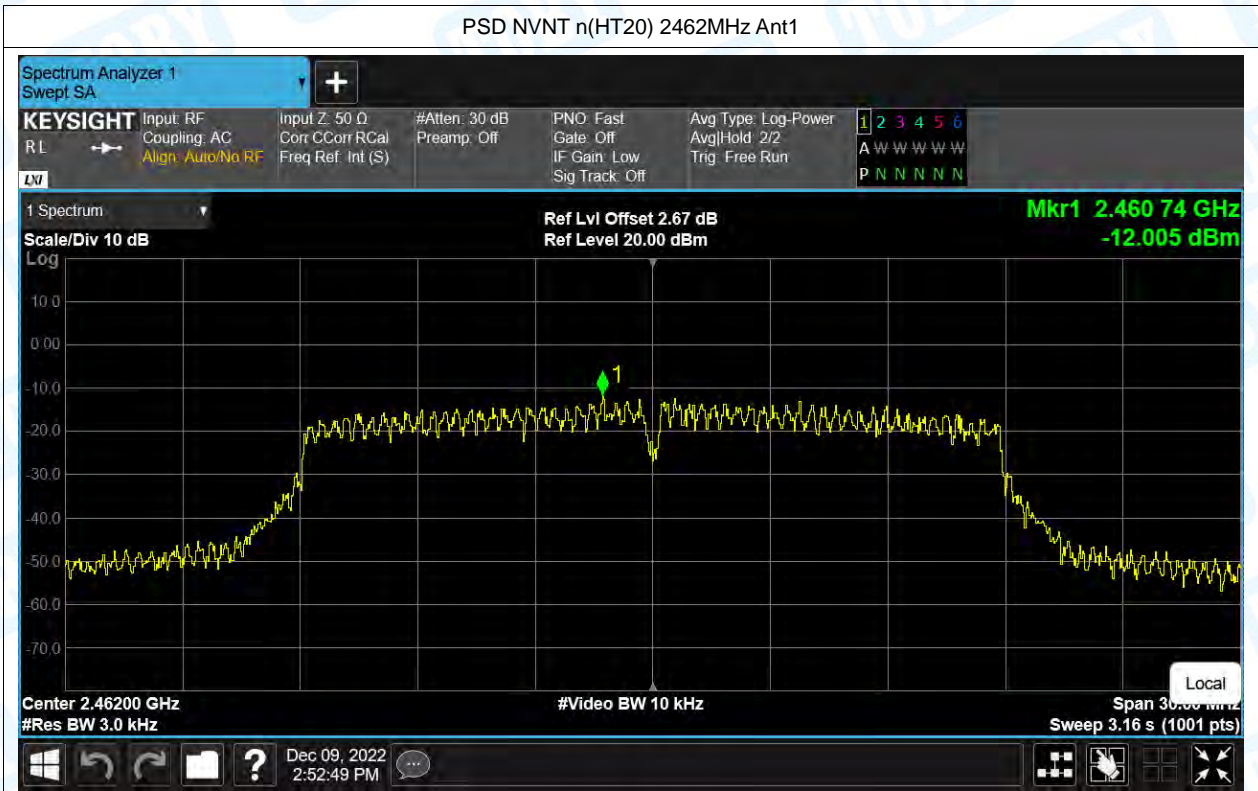


PSD NVNT n(HT20) 2412MHz Ant1

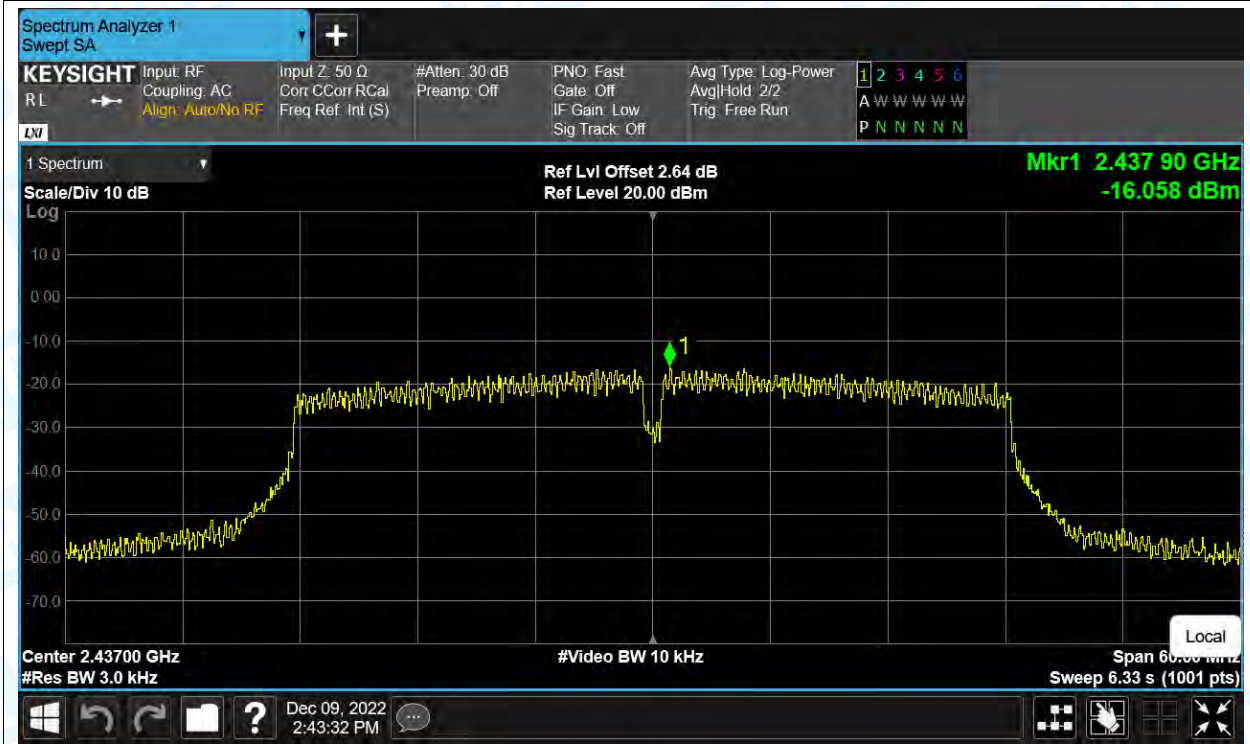


PSD NVNT n(HT20) 2437MHz Ant1

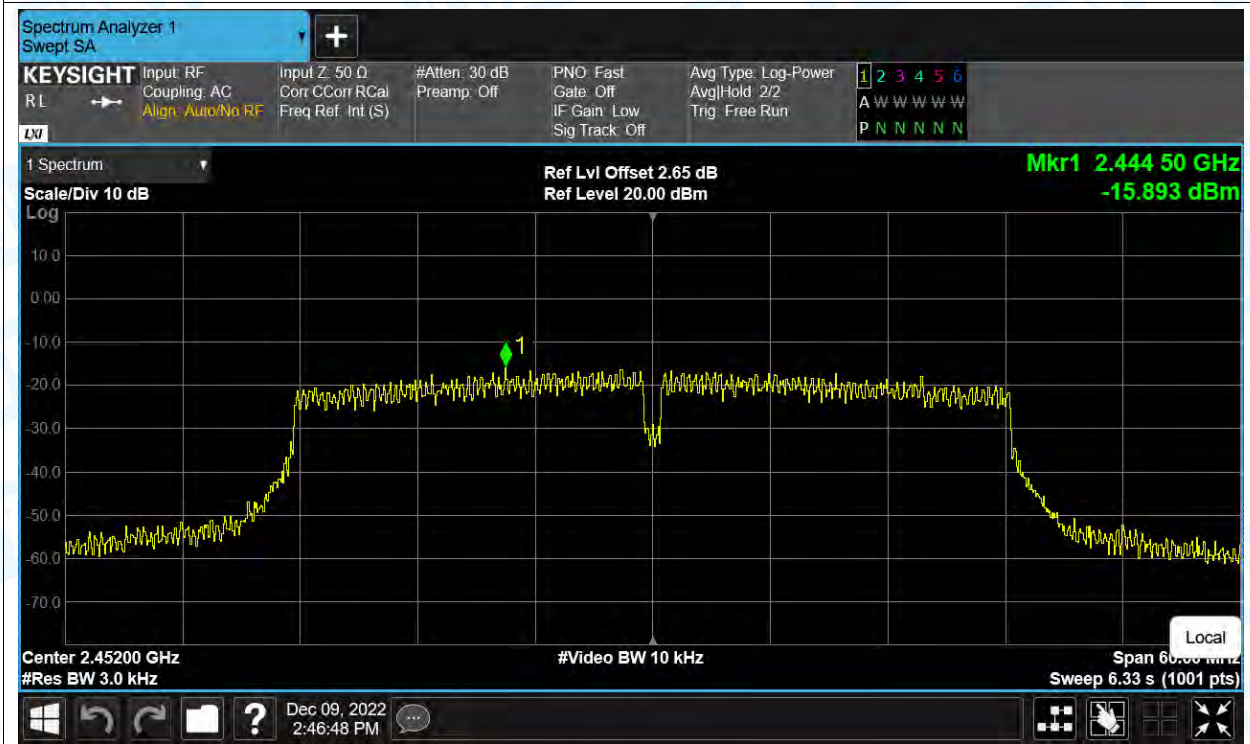




PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

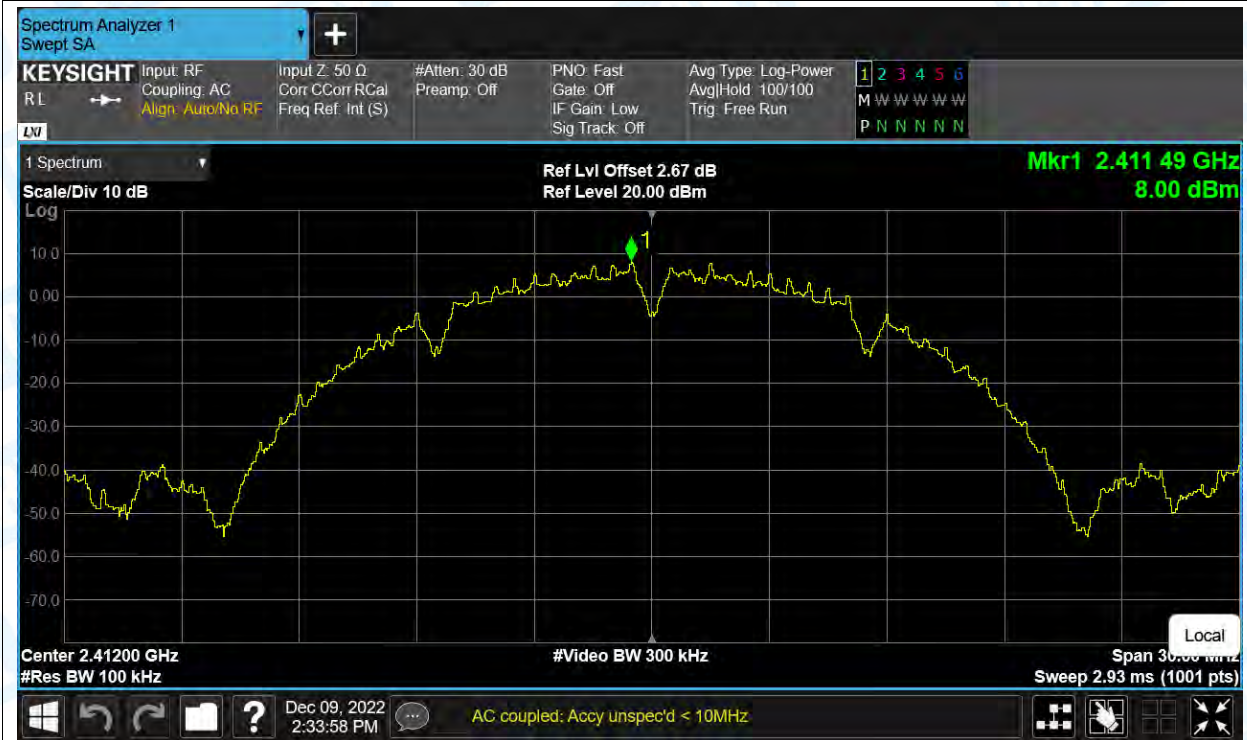


6. Band Edge

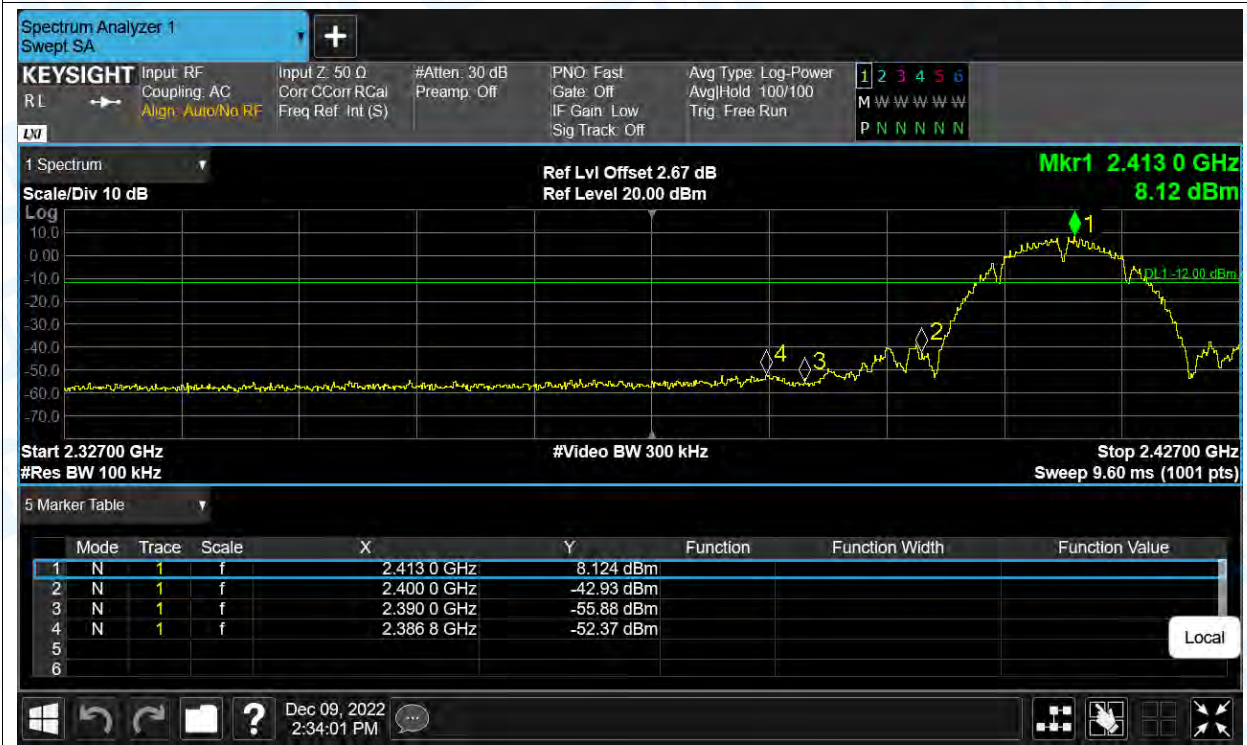
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-60.37	-20	Pass
NVNT	b	2462	Ant1	-60.98	-20	Pass
NVNT	g	2412	Ant1	-48.57	-20	Pass
NVNT	g	2462	Ant1	-50.88	-20	Pass
NVNT	n(HT20)	2412	Ant1	-47.41	-20	Pass
NVNT	n(HT20)	2462	Ant1	-48.72	-20	Pass
NVNT	n(HT40)	2422	Ant1	-35.42	-20	Pass
NVNT	n(HT40)	2452	Ant1	-36.09	-20	Pass

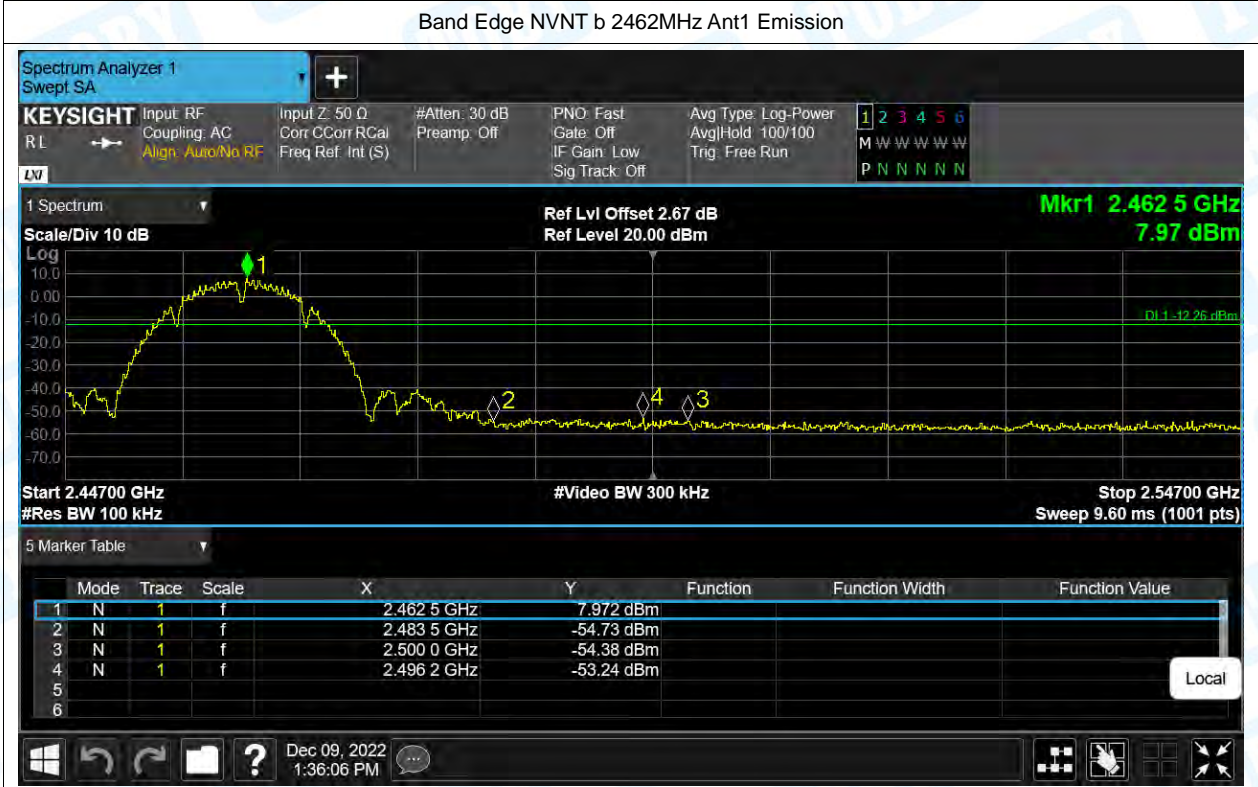
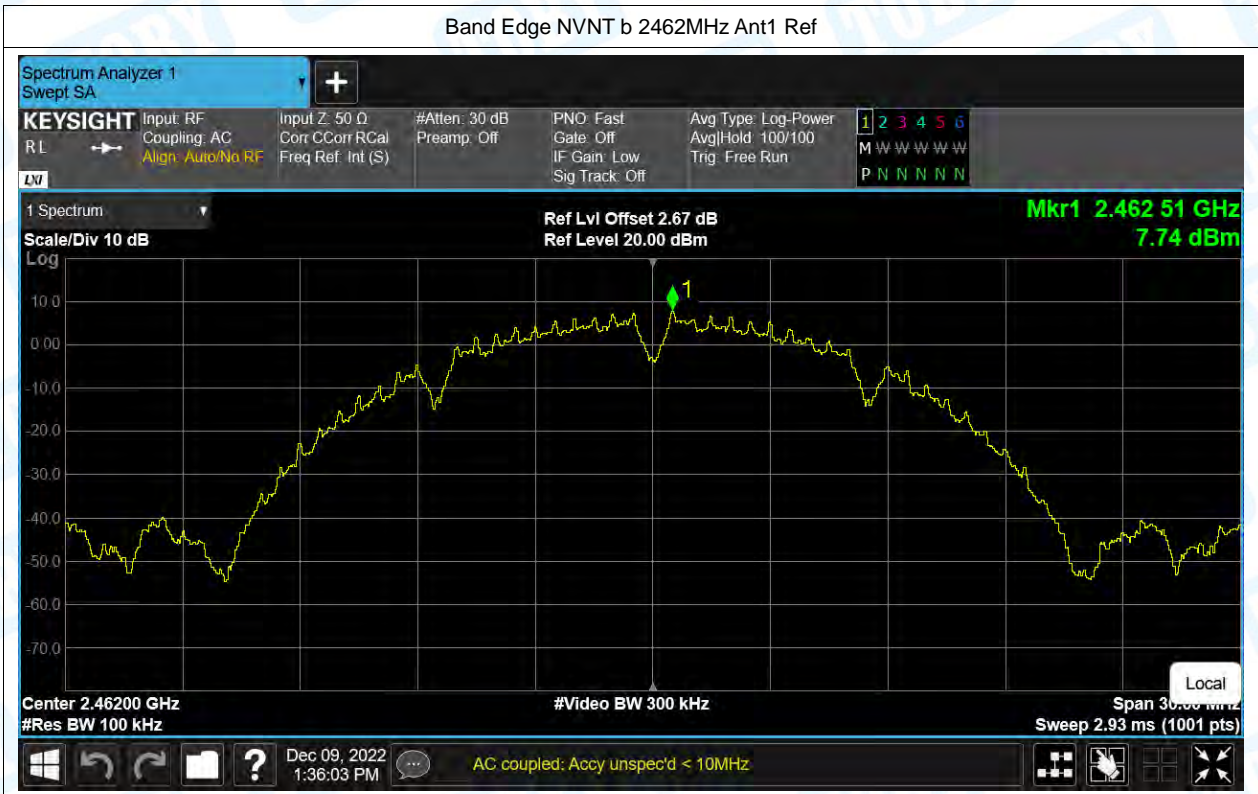
Test Graphs

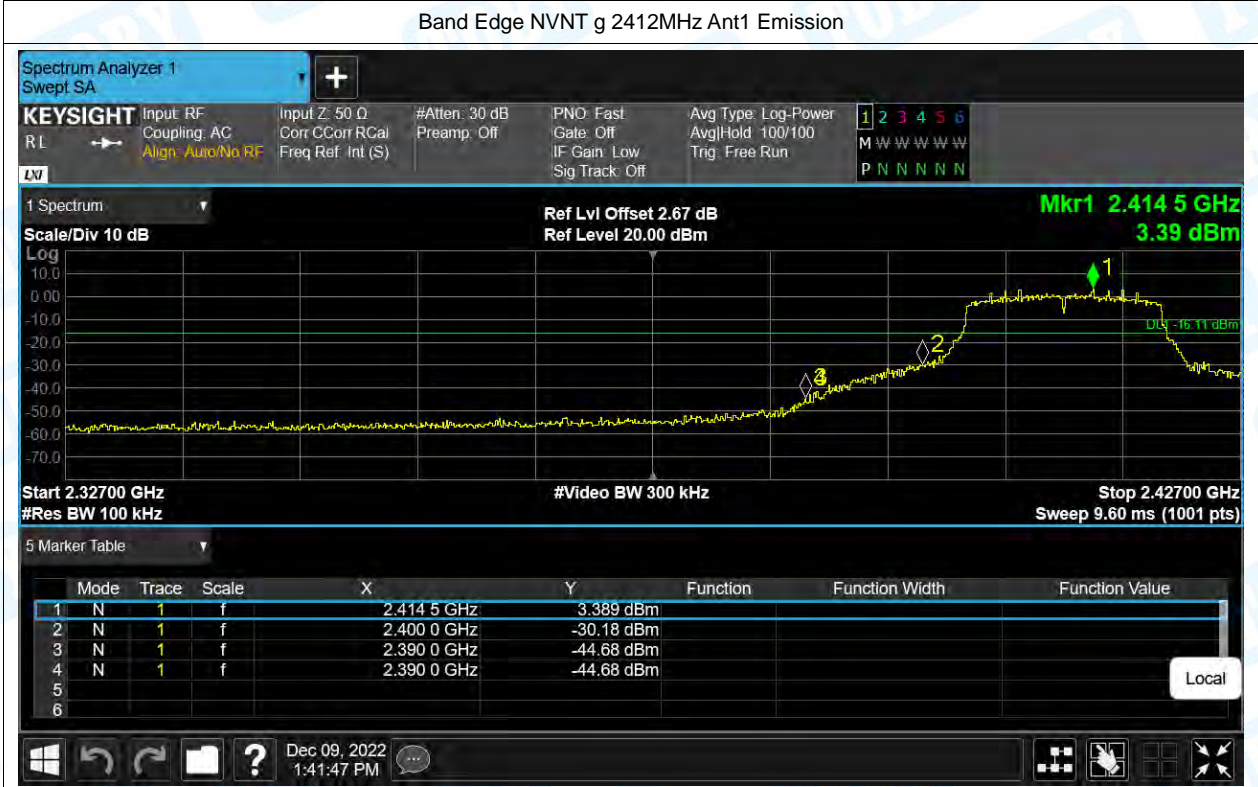
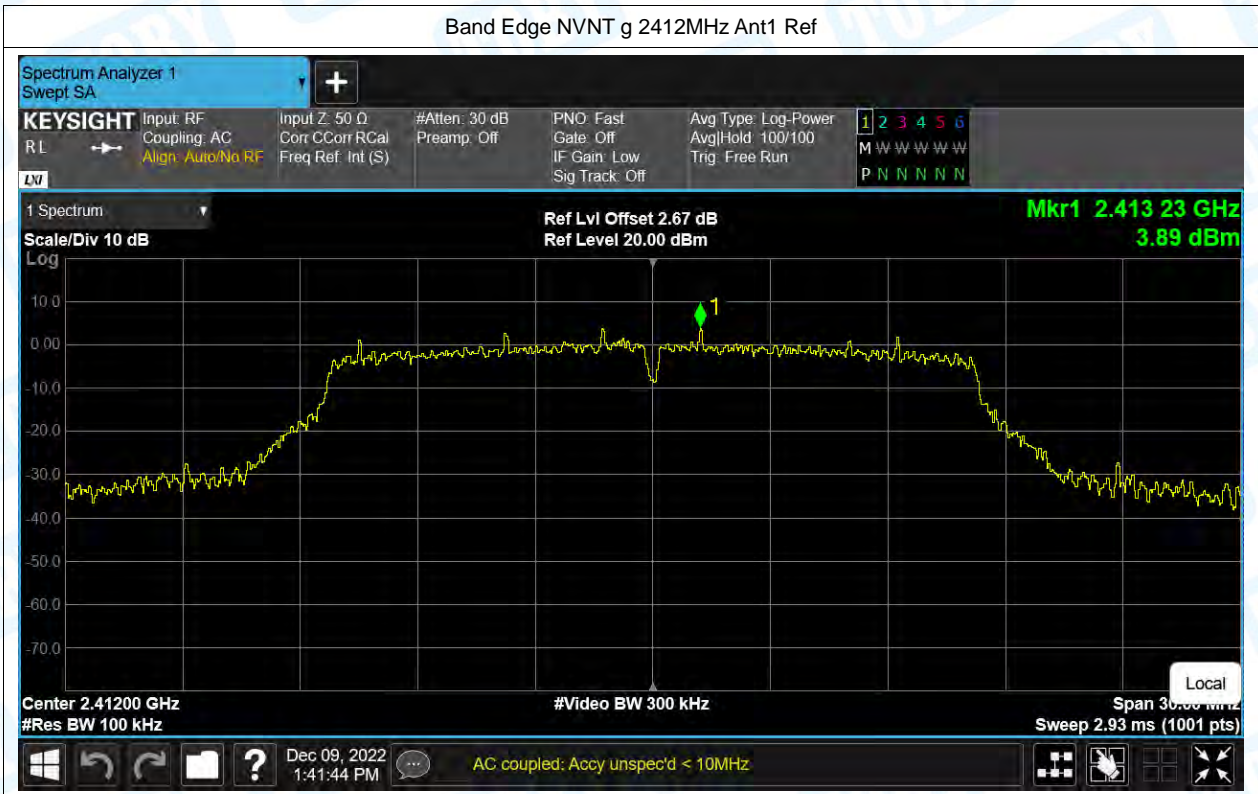
Band Edge NVNT b 2412MHz Ant1 Ref

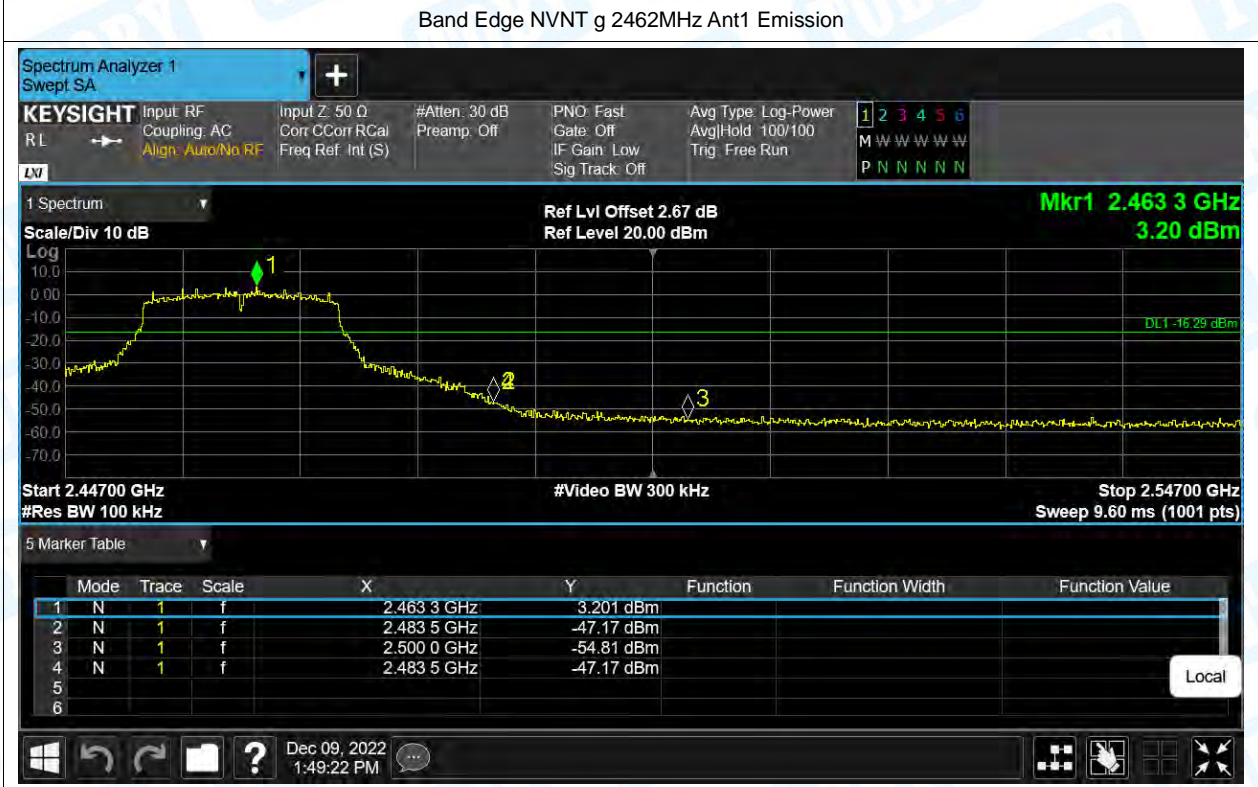


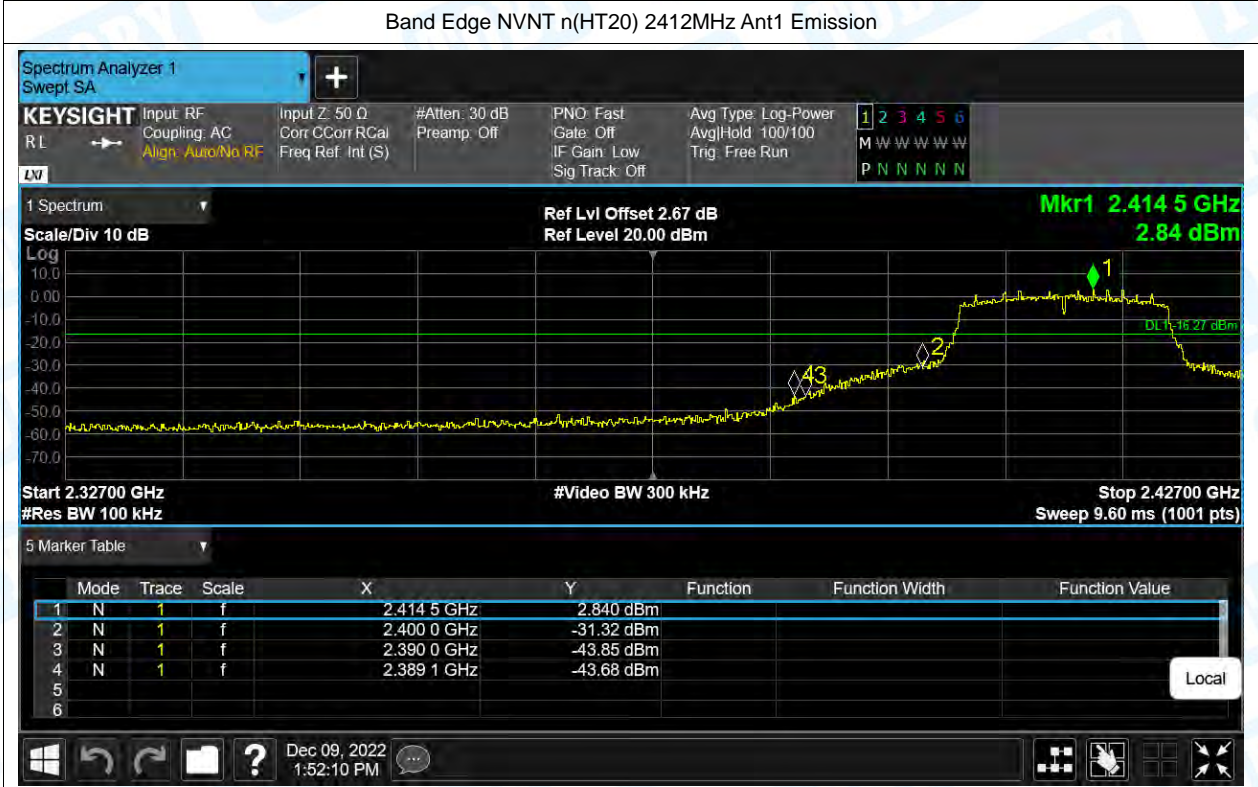
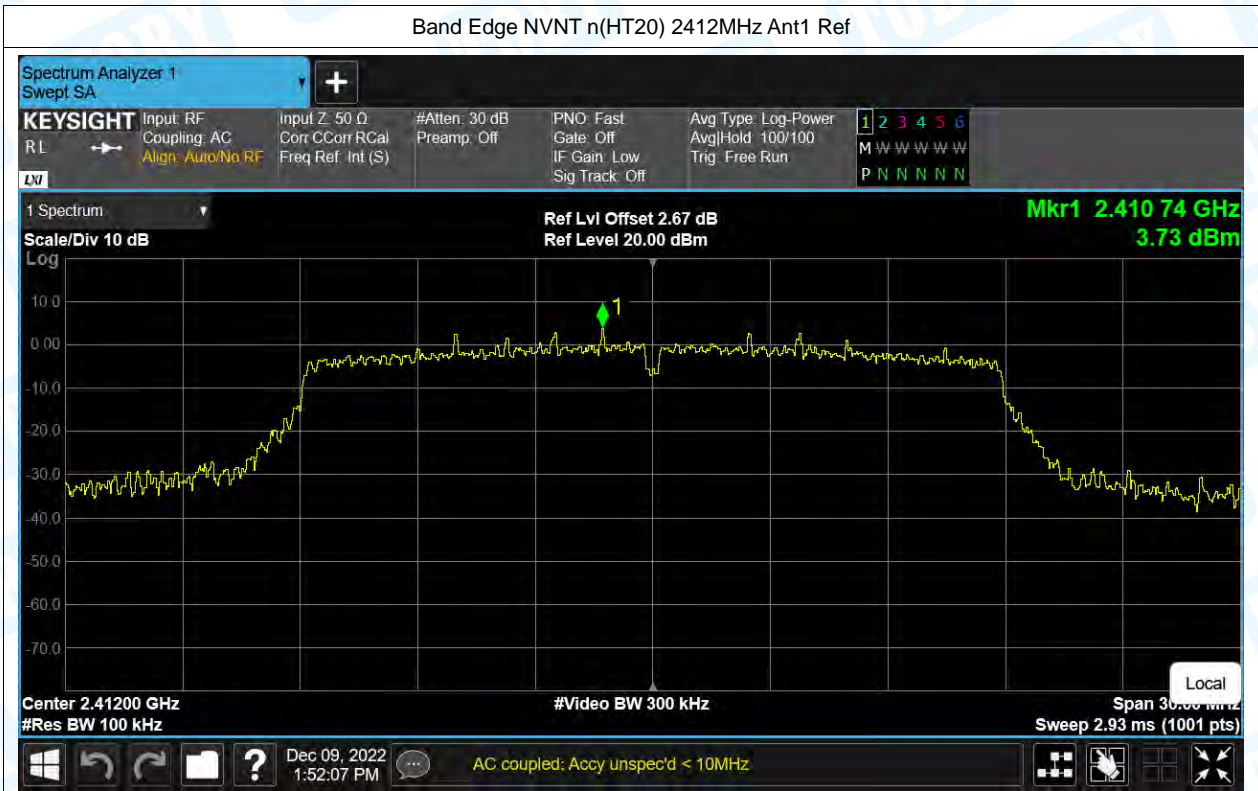
Band Edge NVNT b 2412MHz Ant1 Emission

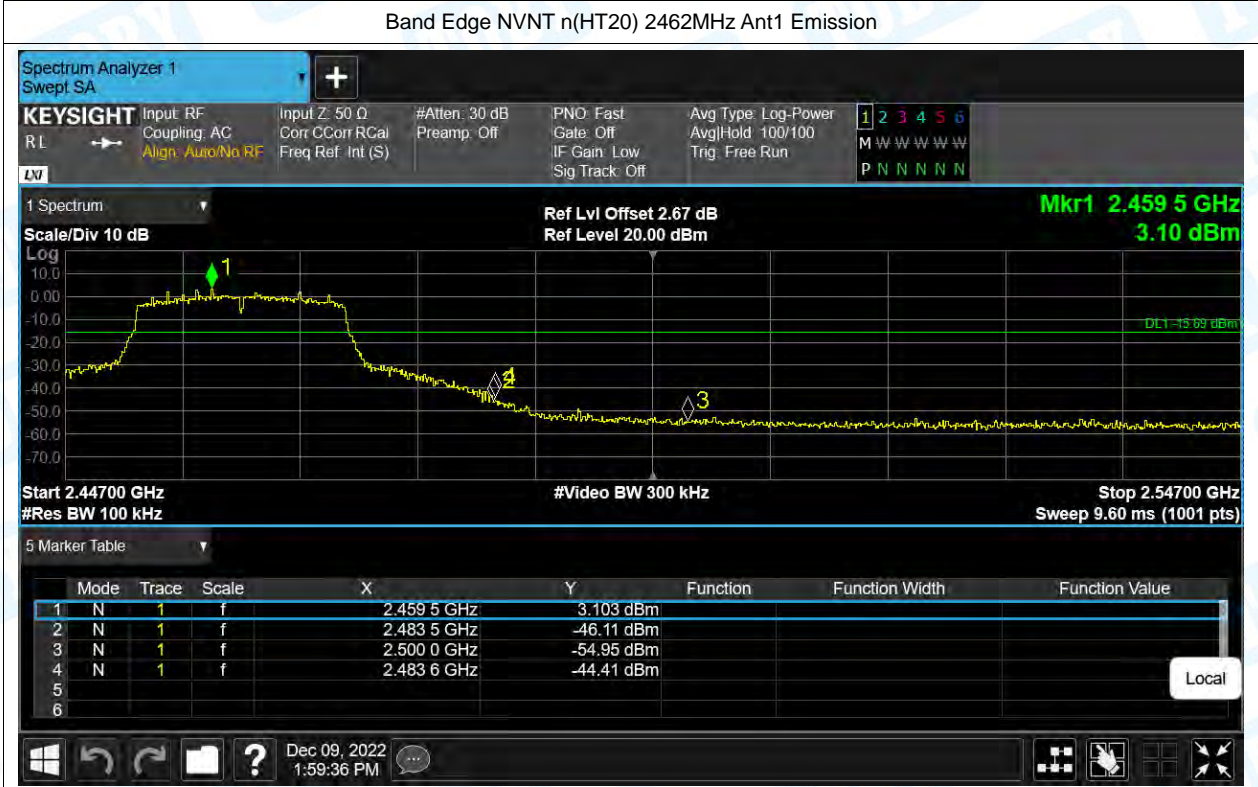
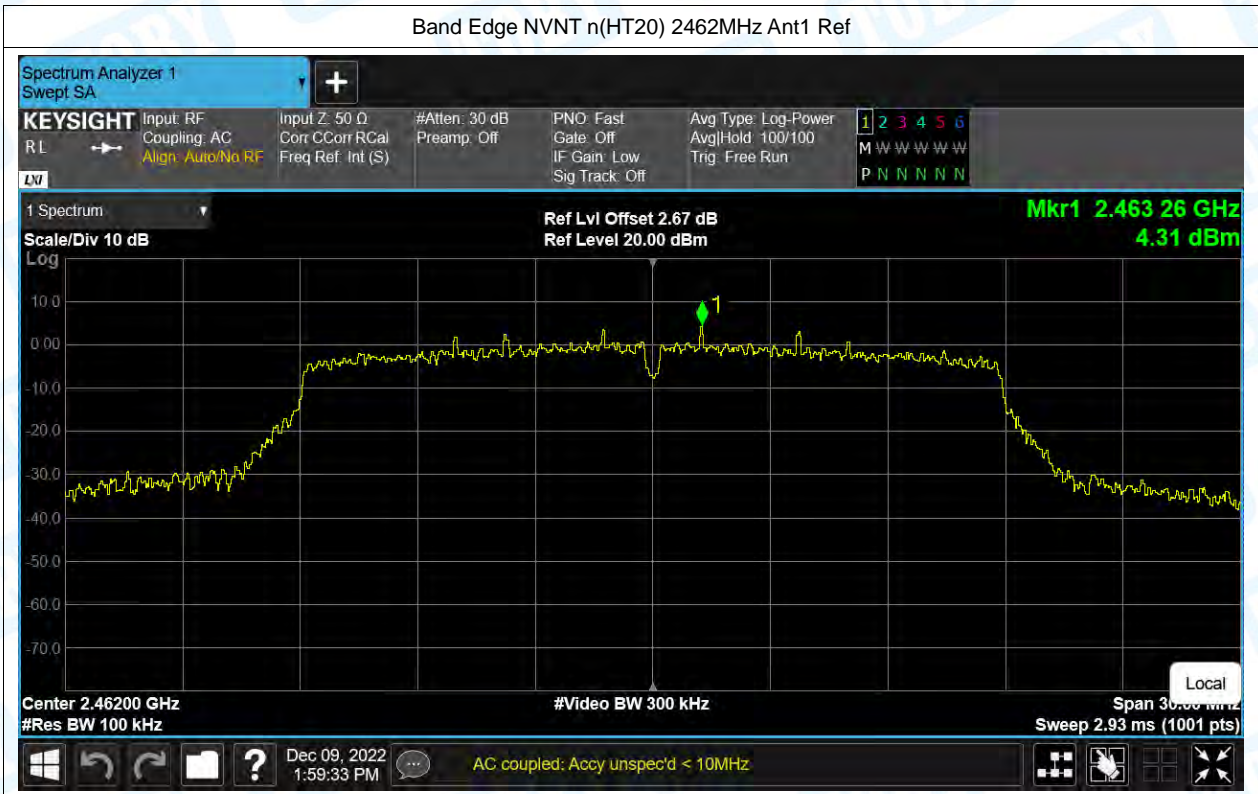


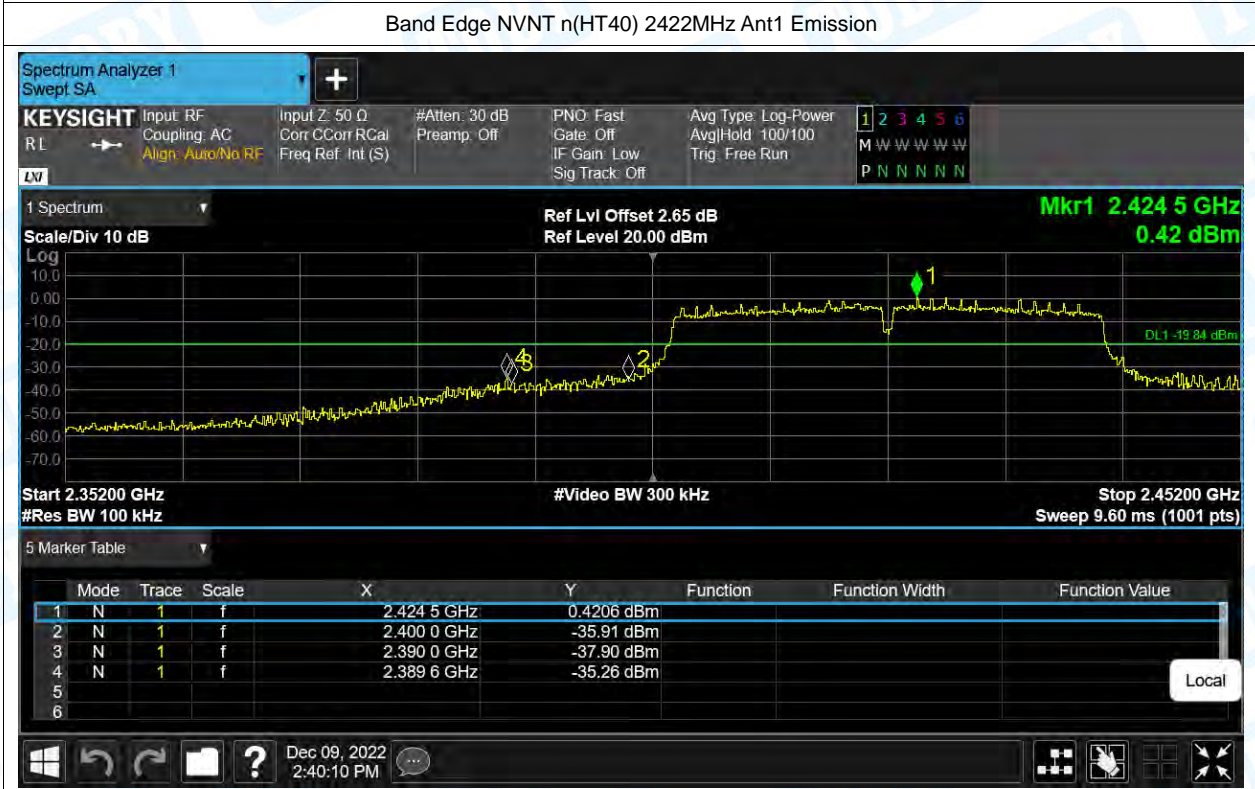
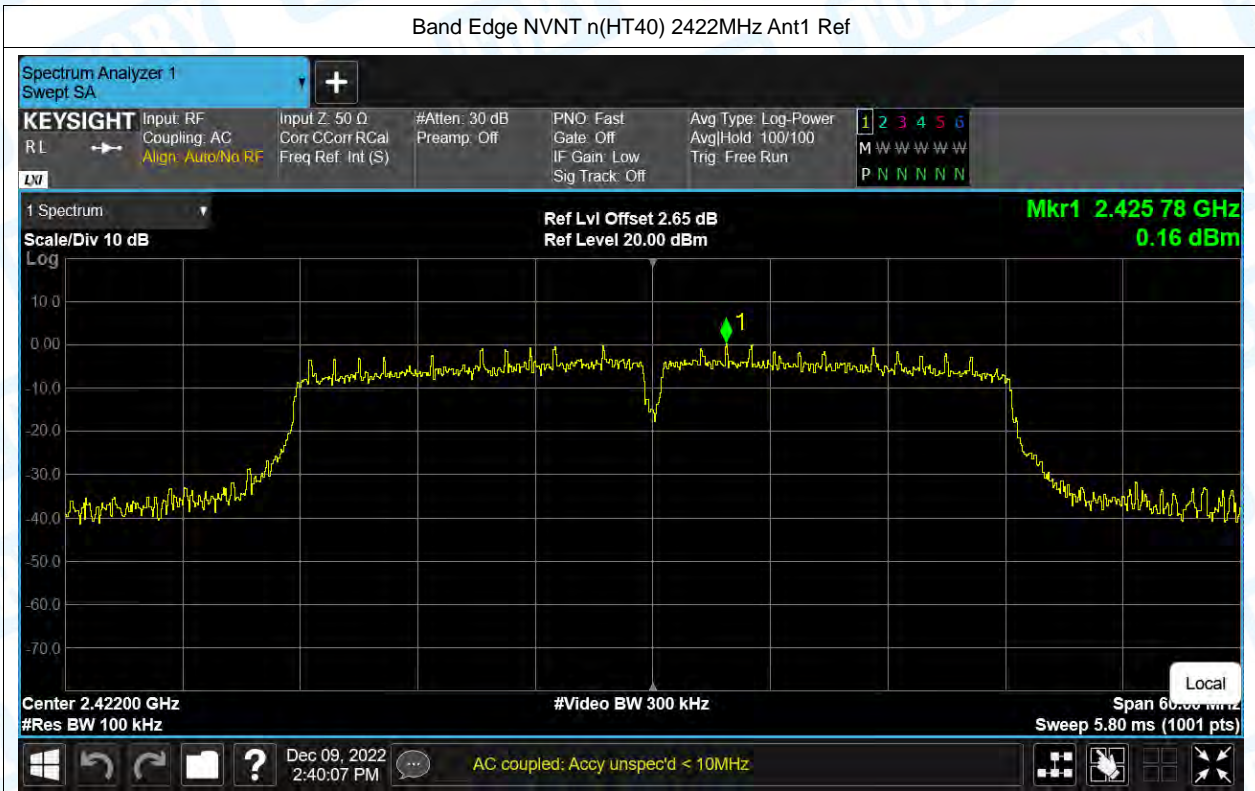


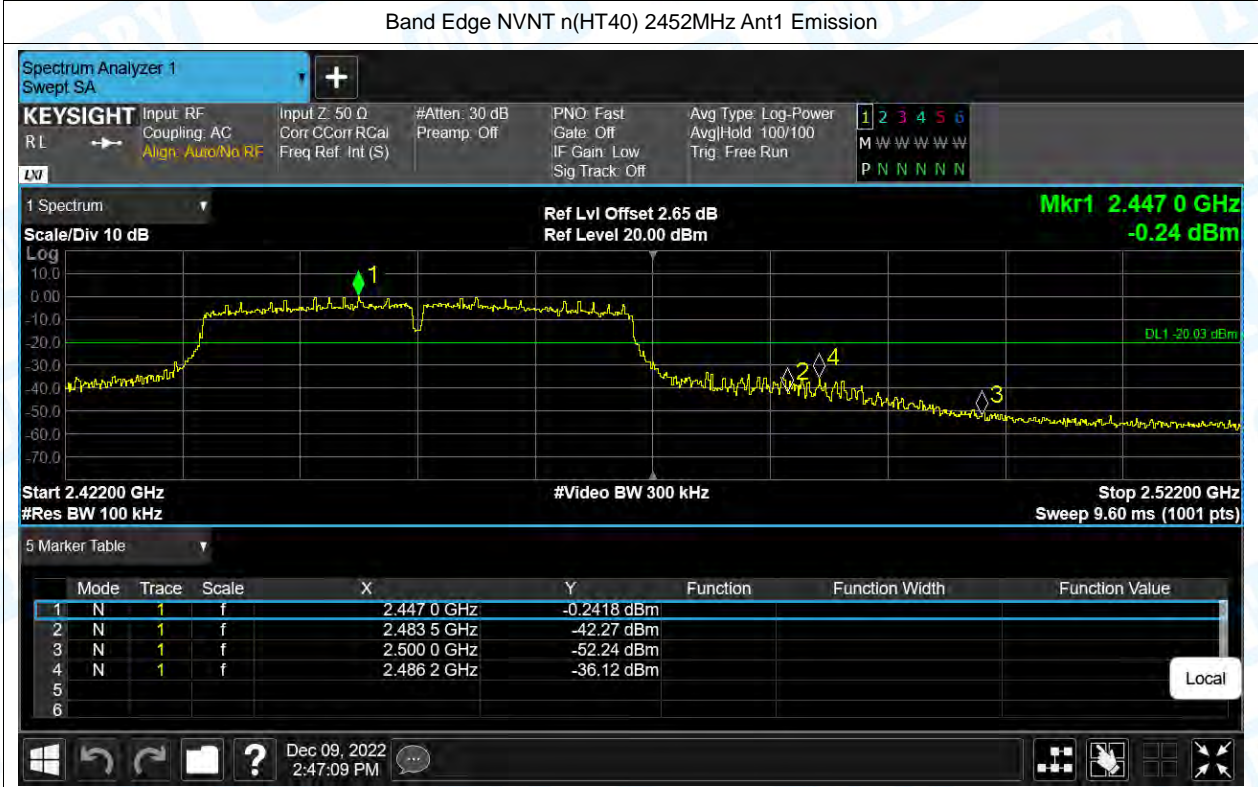
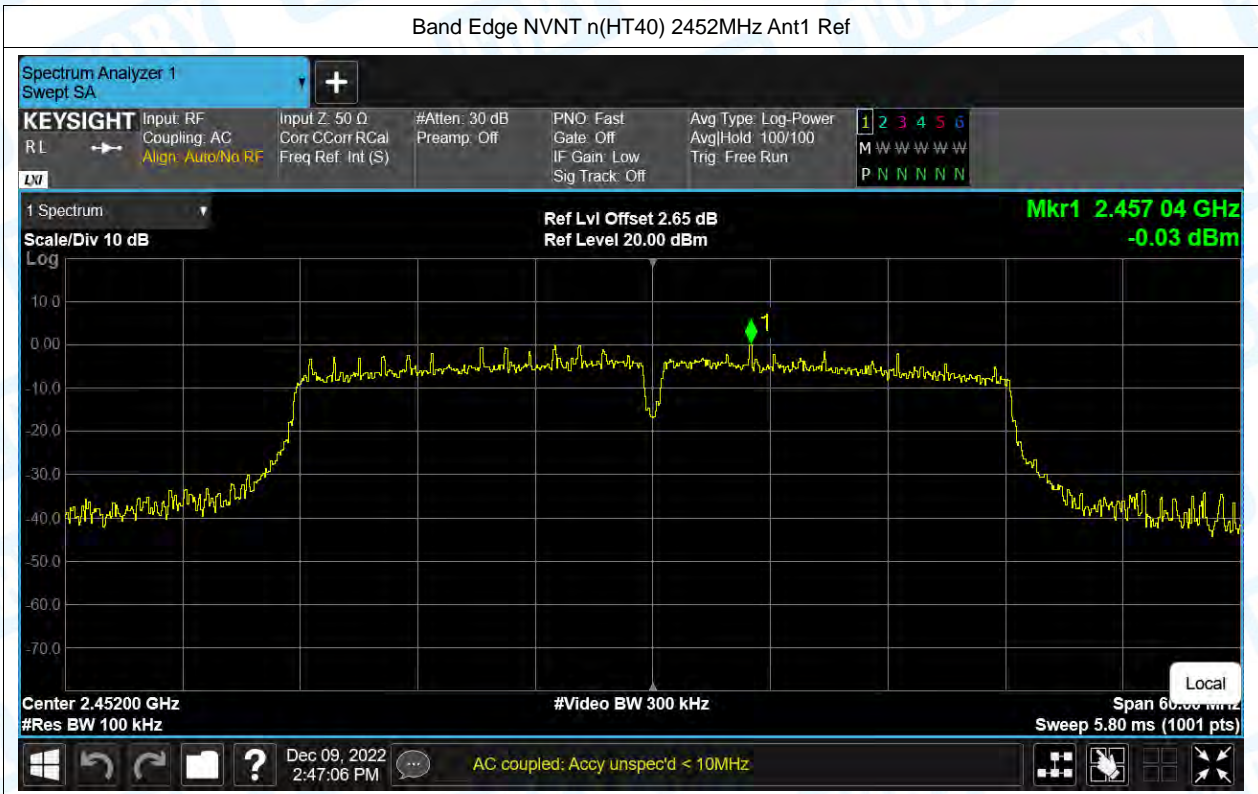












7. Conducted RF Spurious Emission

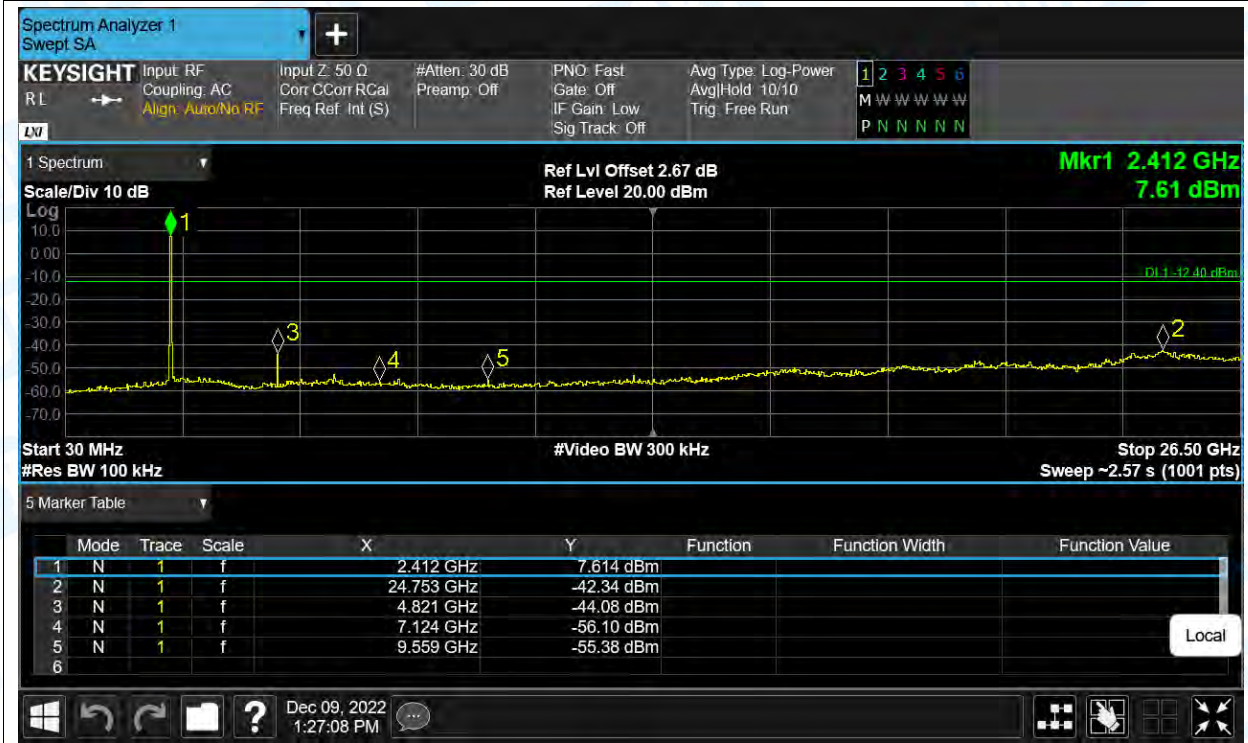
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.94	-20	Pass
NVNT	b	2437	Ant1	-49.74	-20	Pass
NVNT	b	2462	Ant1	-49.01	-20	Pass
NVNT	g	2412	Ant1	-45.41	-20	Pass
NVNT	g	2437	Ant1	-45.93	-20	Pass
NVNT	g	2462	Ant1	-43.96	-20	Pass
NVNT	n(HT20)	2412	Ant1	-45.67	-20	Pass
NVNT	n(HT20)	2437	Ant1	-45.29	-20	Pass
NVNT	n(HT20)	2462	Ant1	-45.29	-20	Pass
NVNT	n(HT40)	2422	Ant1	-40.94	-20	Pass
NVNT	n(HT40)	2437	Ant1	-42.24	-20	Pass
NVNT	n(HT40)	2452	Ant1	-42.95	-20	Pass

Test Graphs

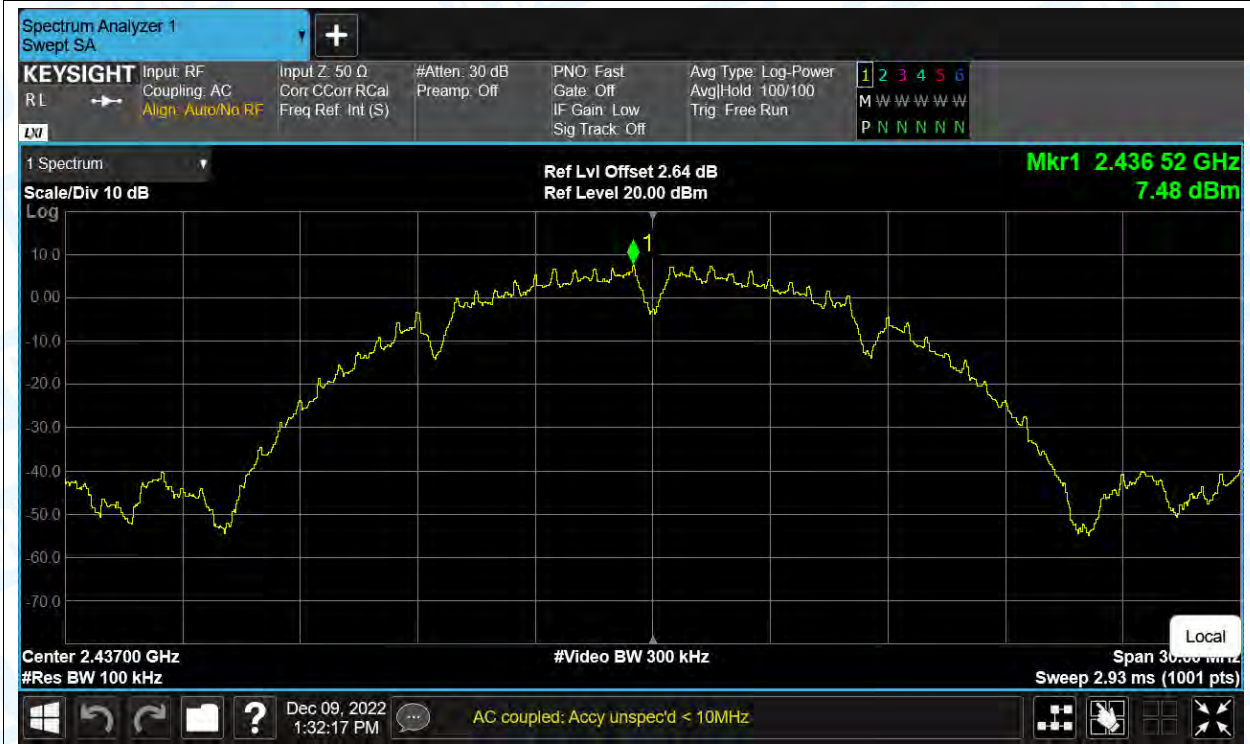
Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



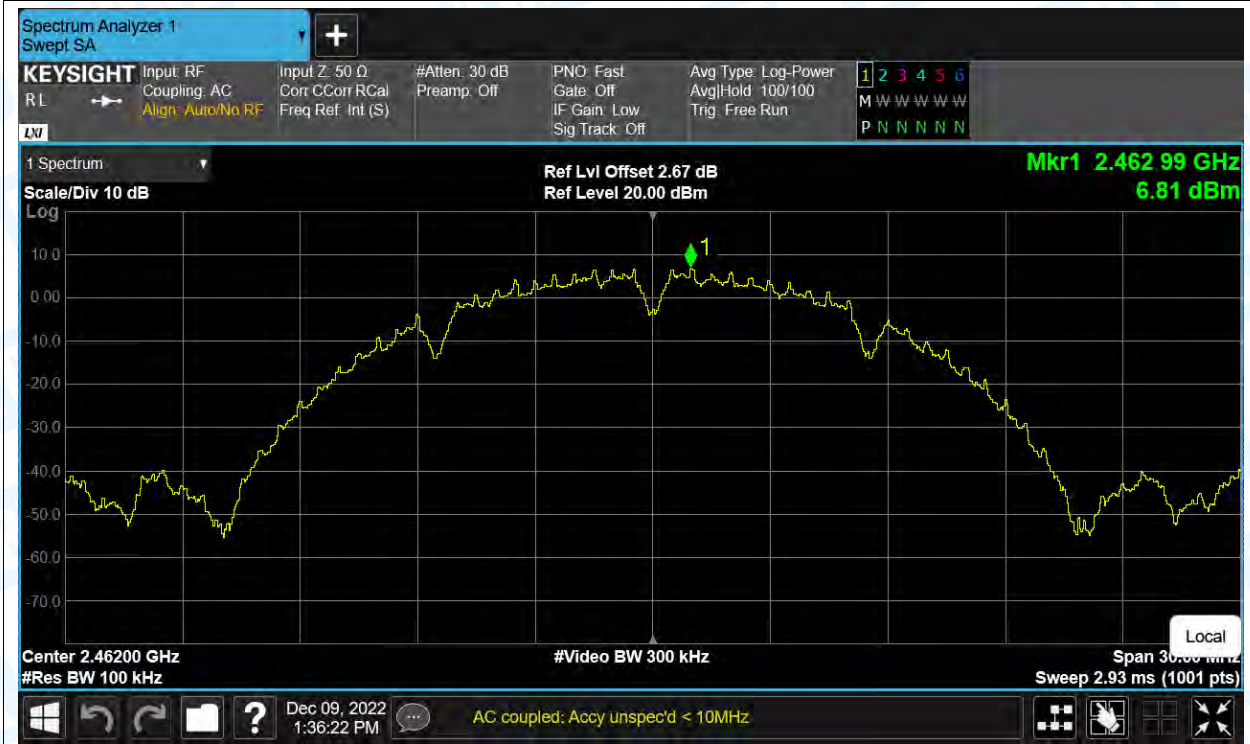
Tx. Spurious NVNT b 2437MHz Ant1 Ref



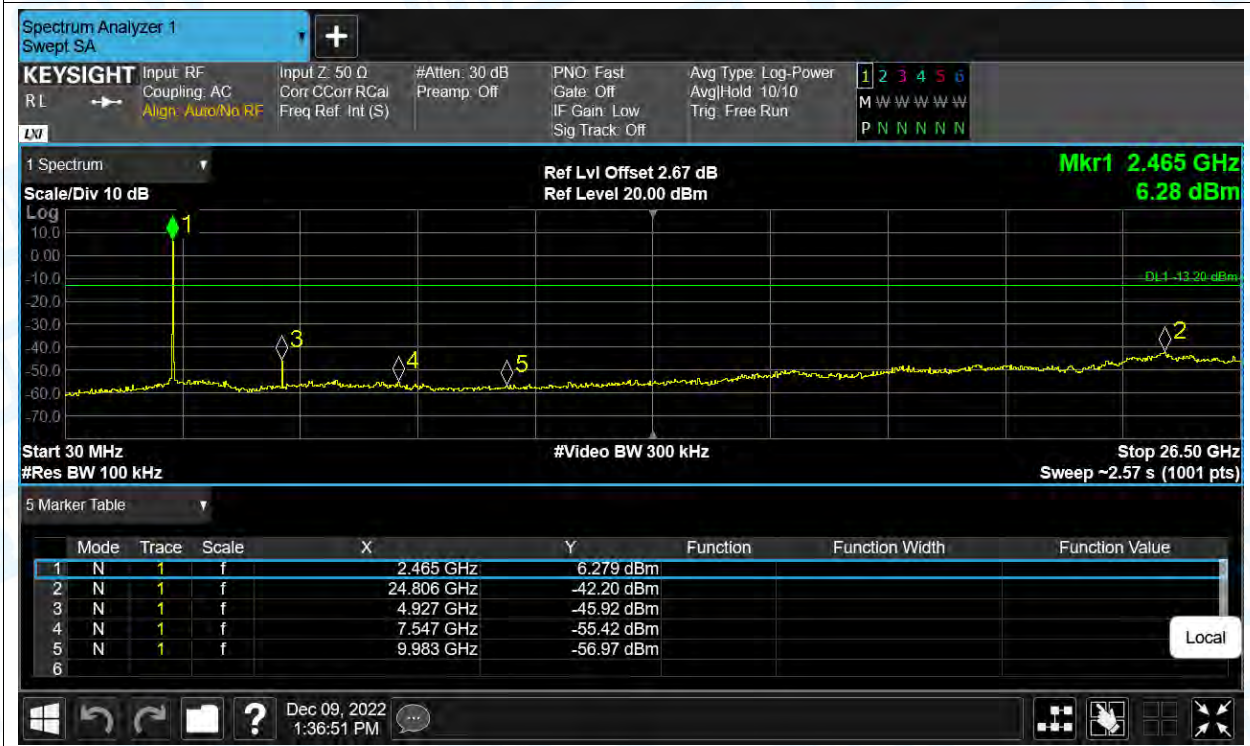
Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref



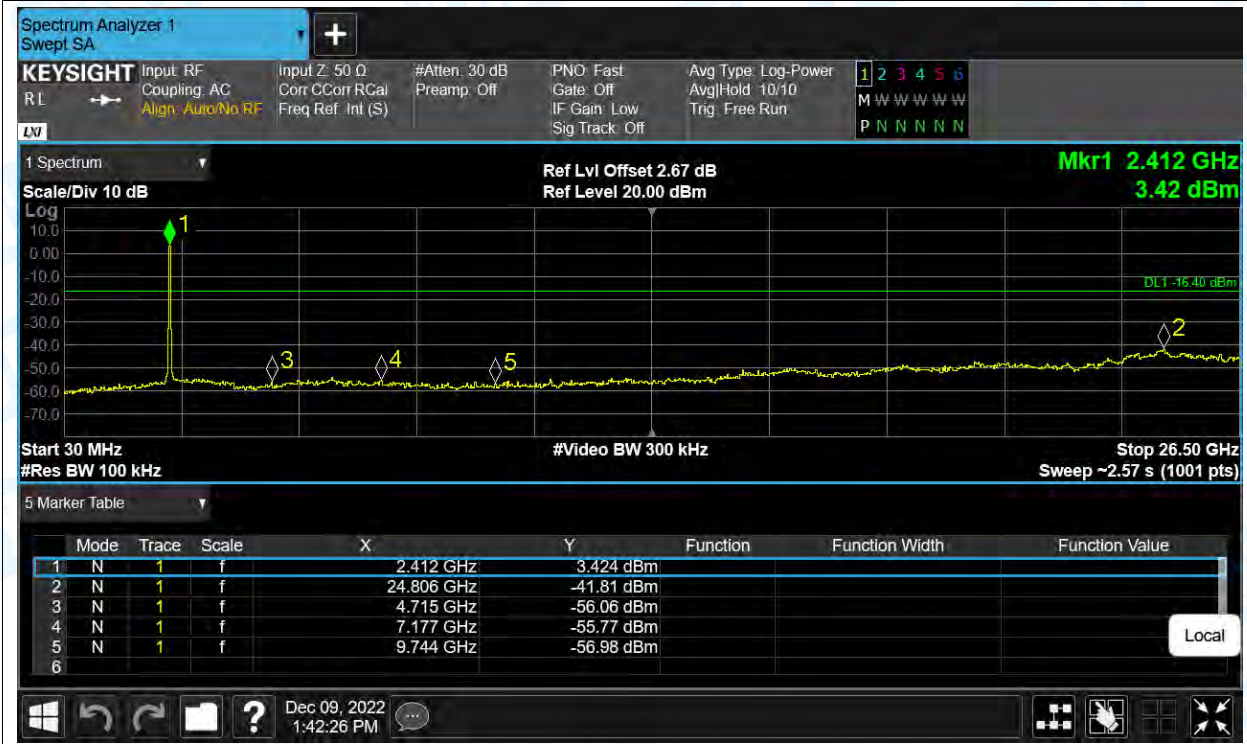
Tx. Spurious NVNT b 2462MHz Ant1 Emission



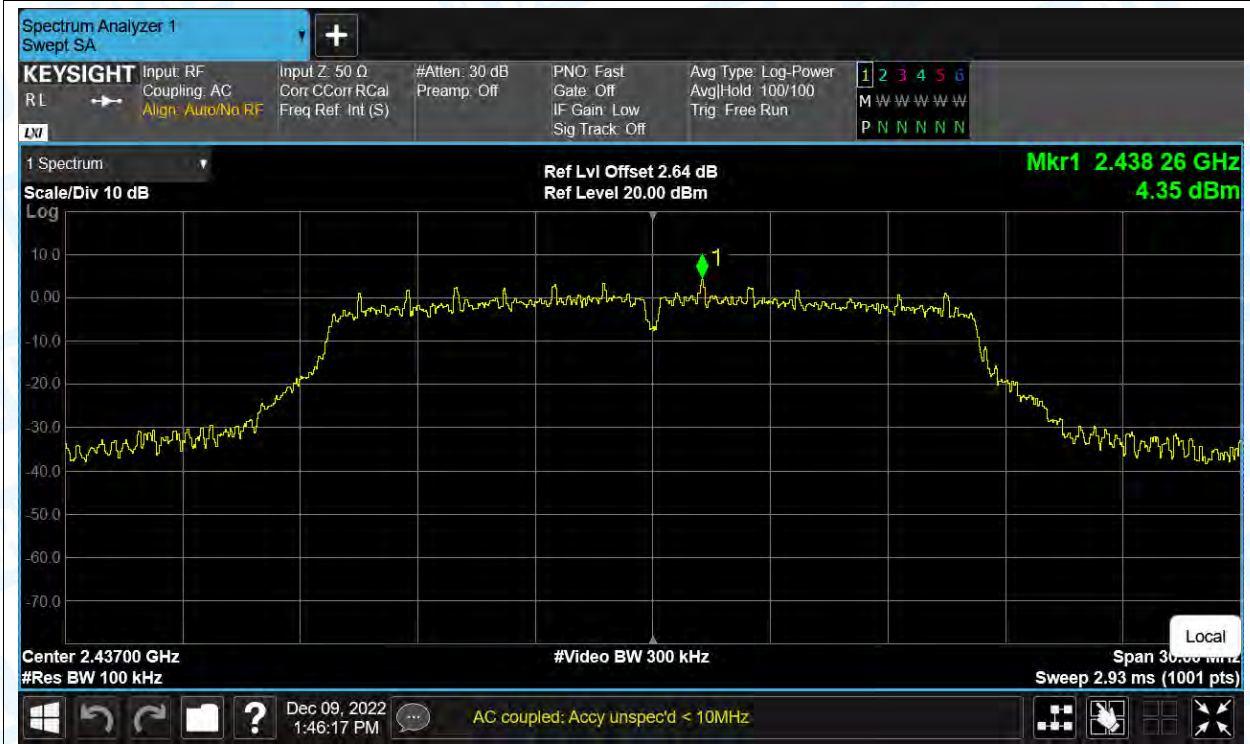
Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



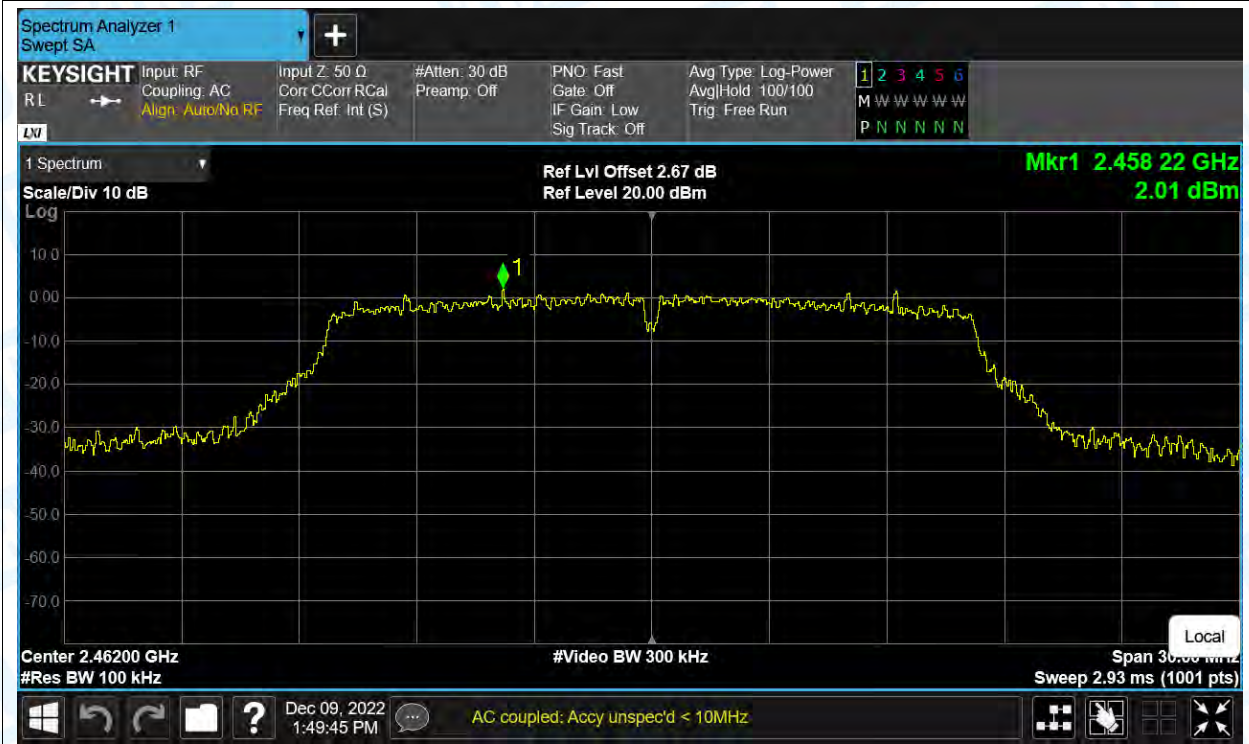
Tx. Spurious NVNT g 2437MHz Ant1 Ref



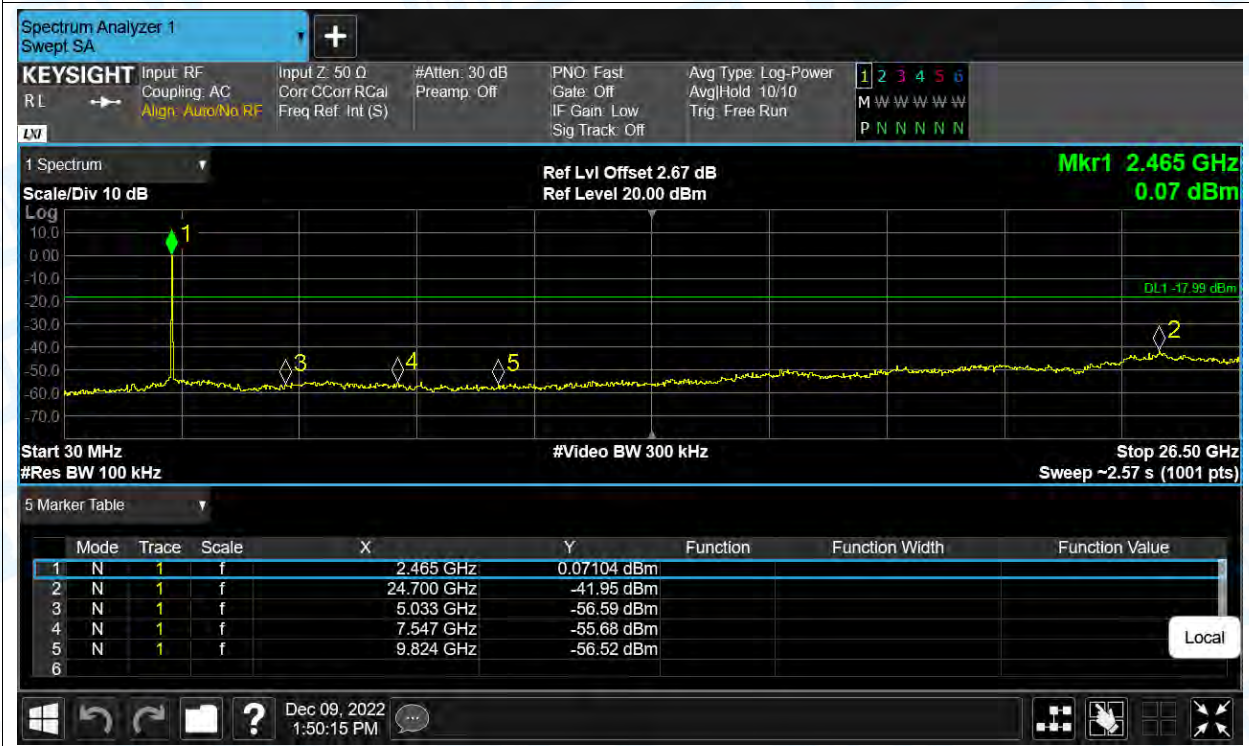
Tx. Spurious NVNT g 2437MHz Ant1 Emission



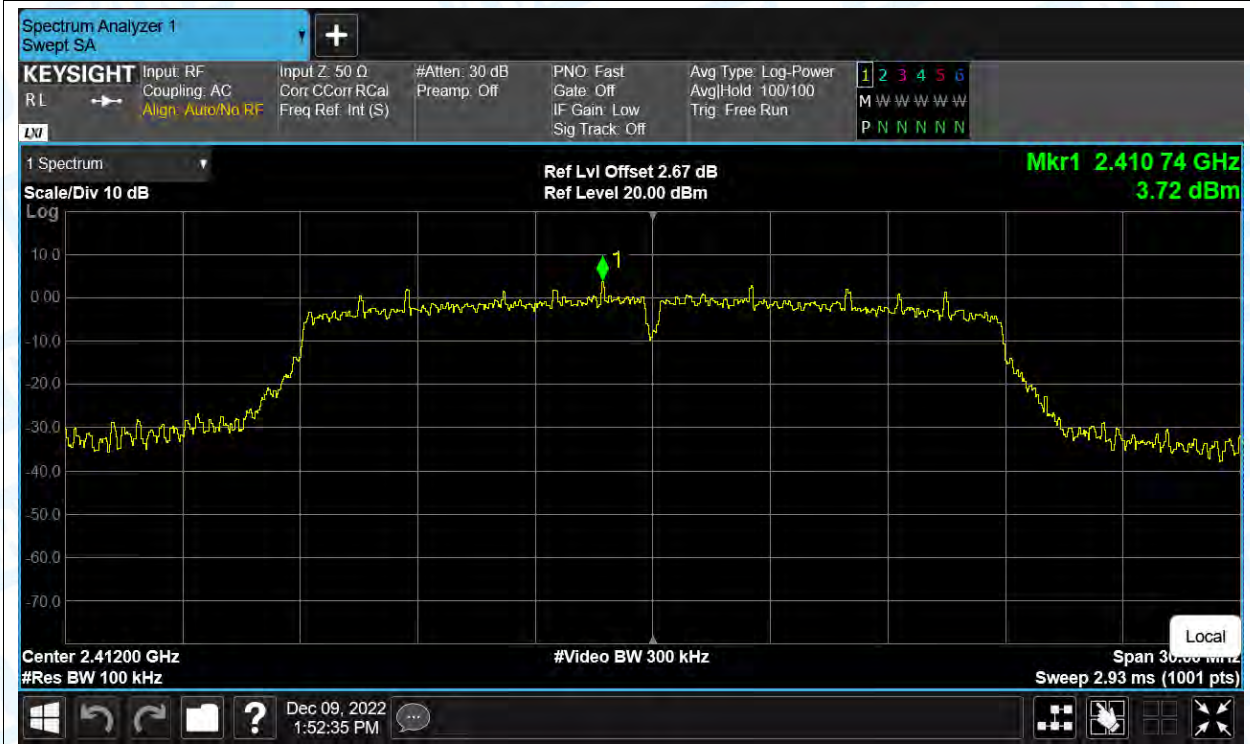
Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



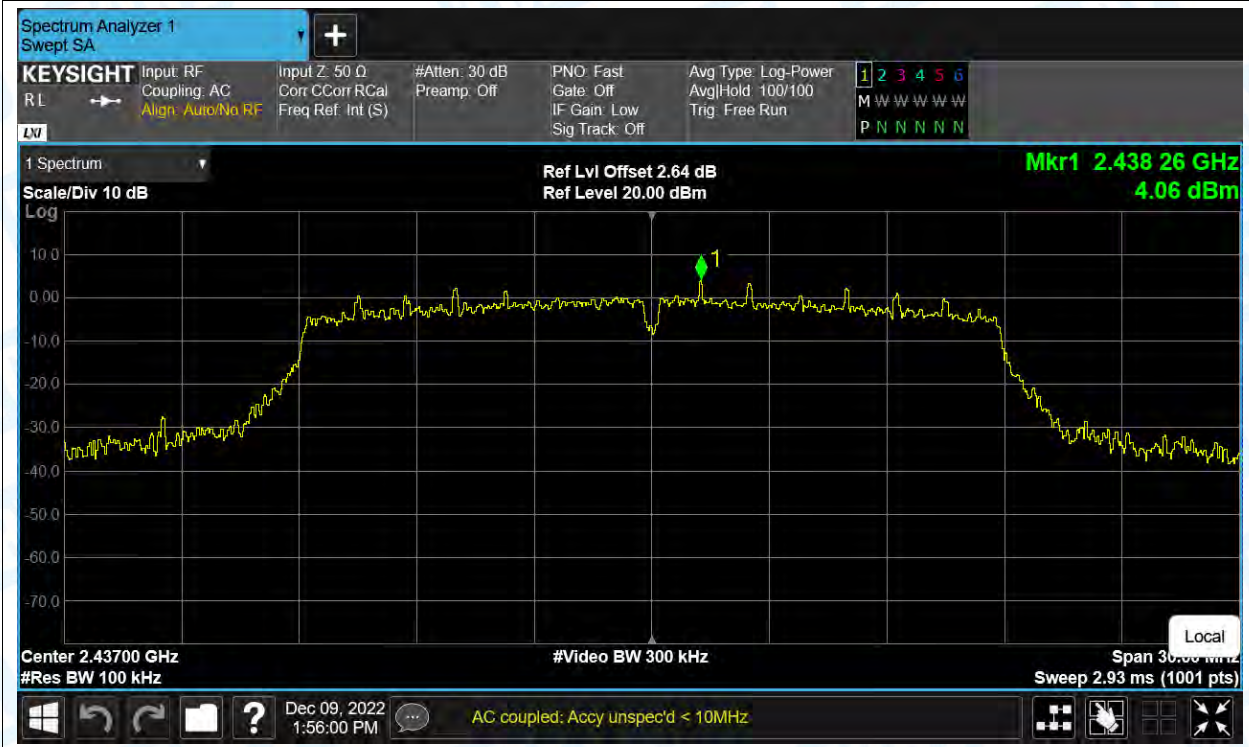
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



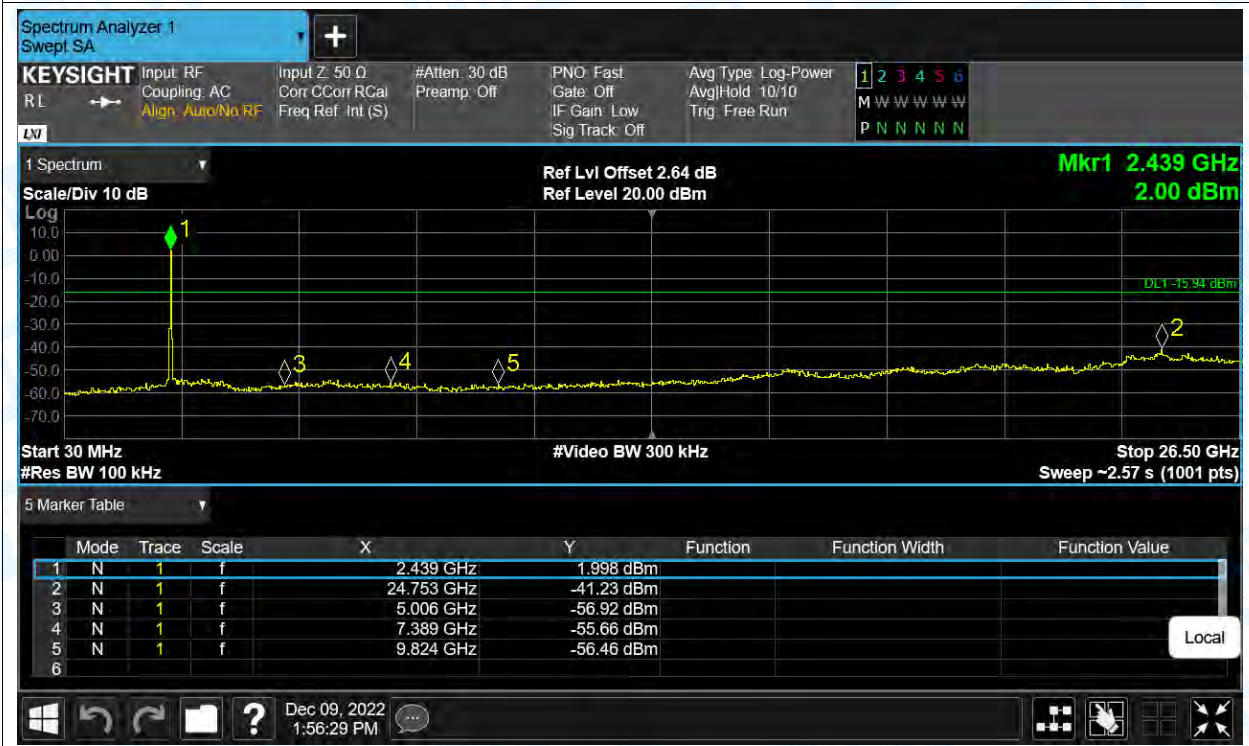
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



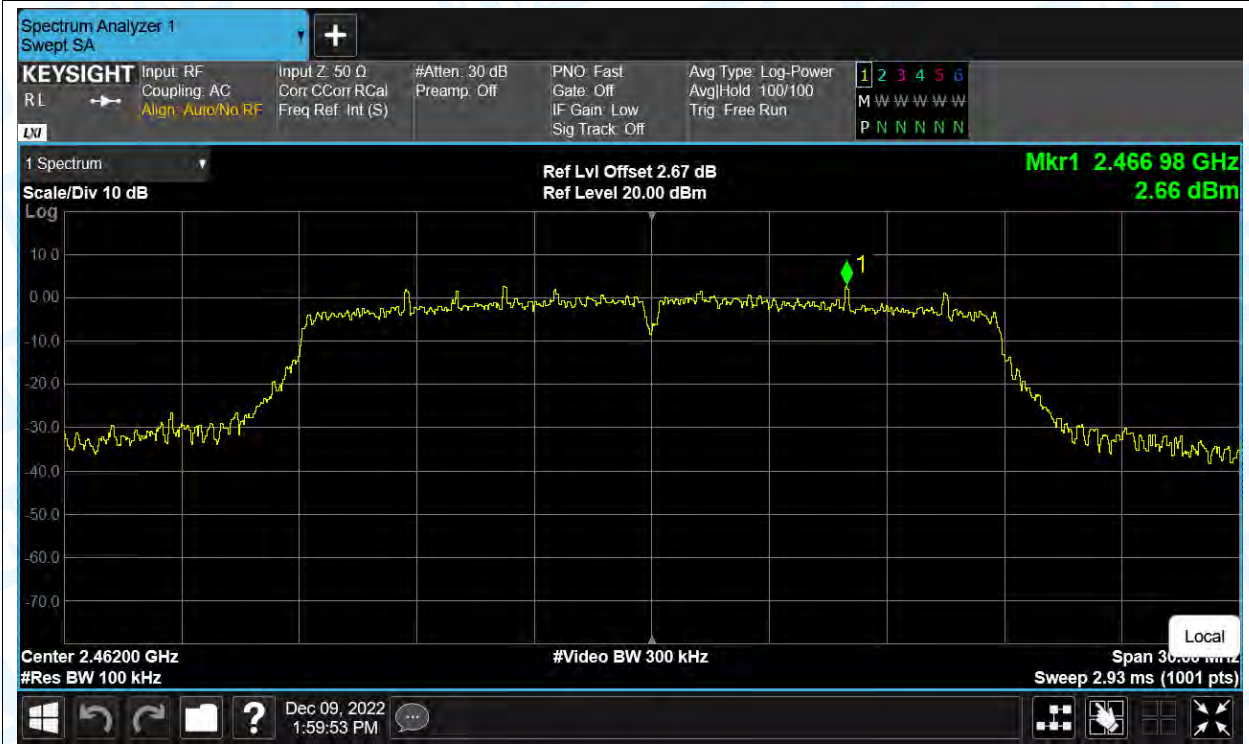
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



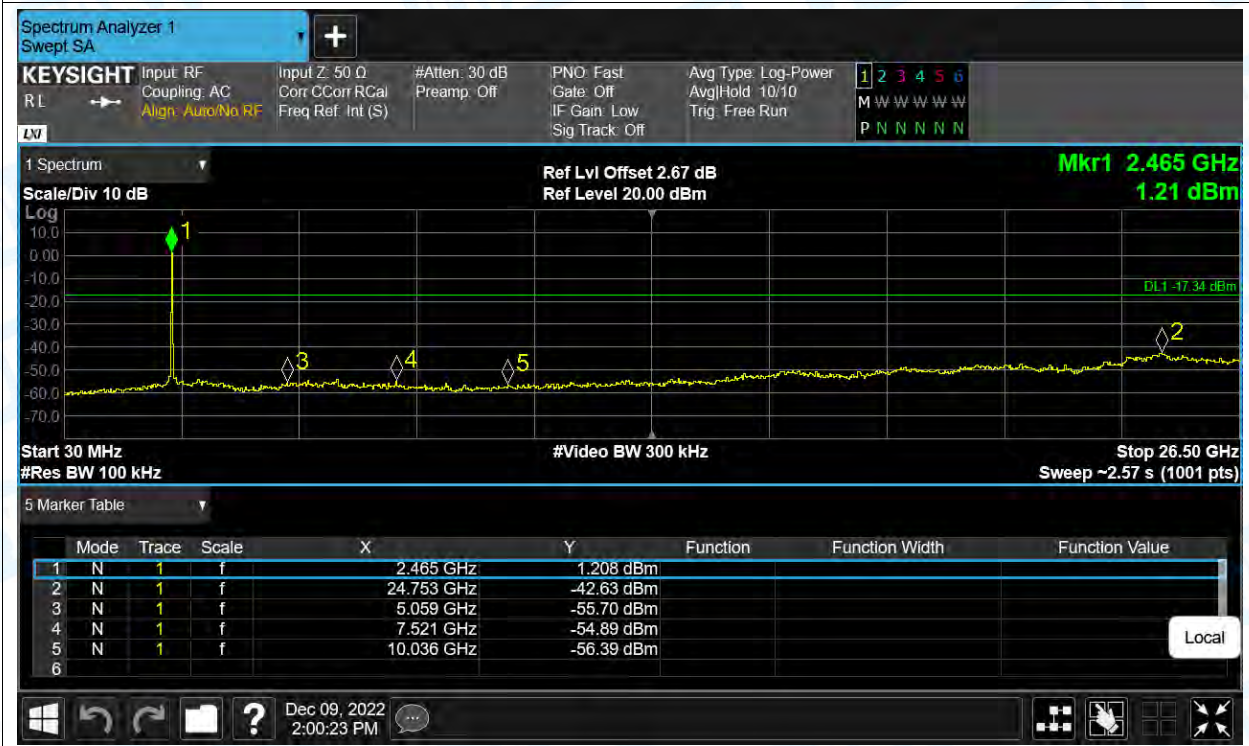
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Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



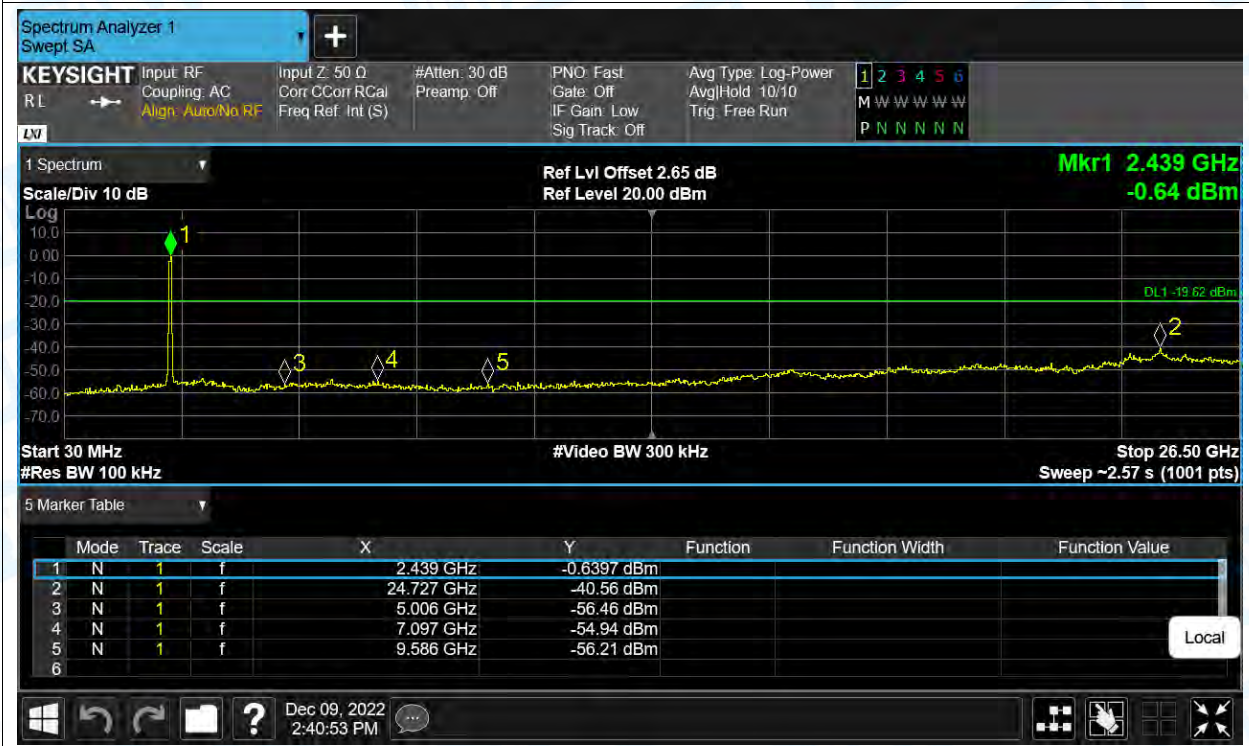
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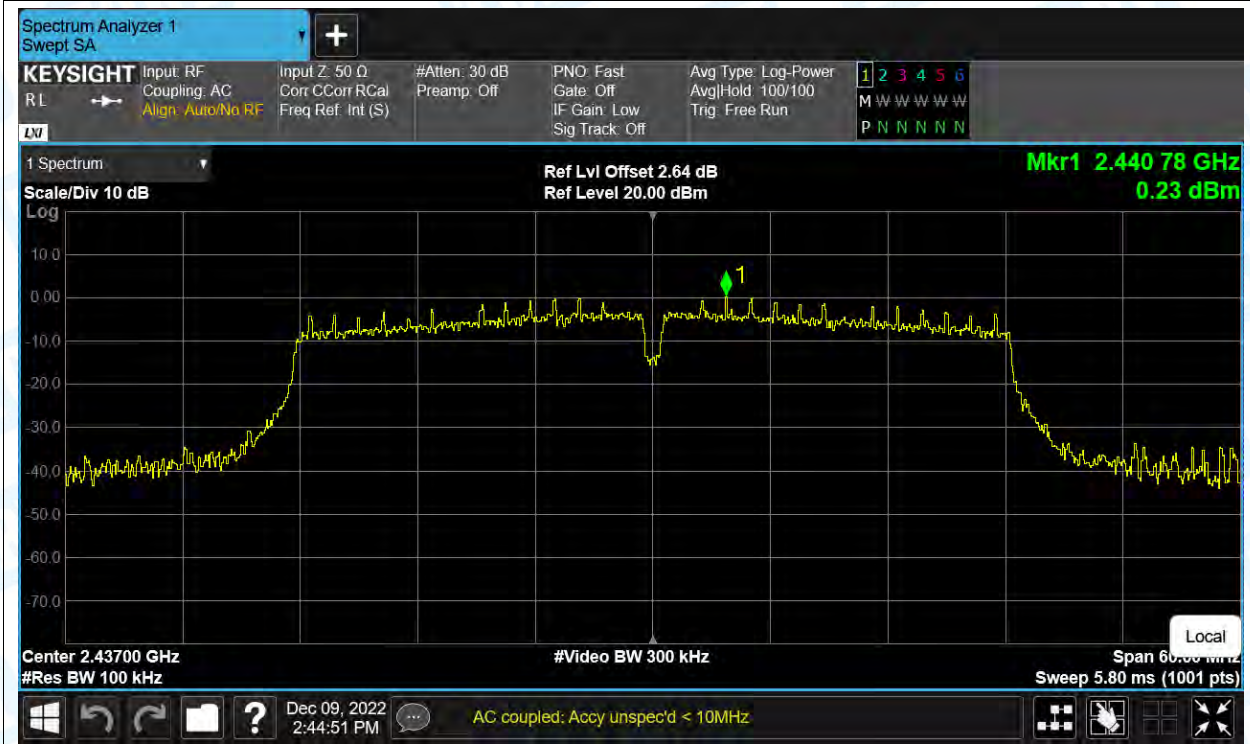
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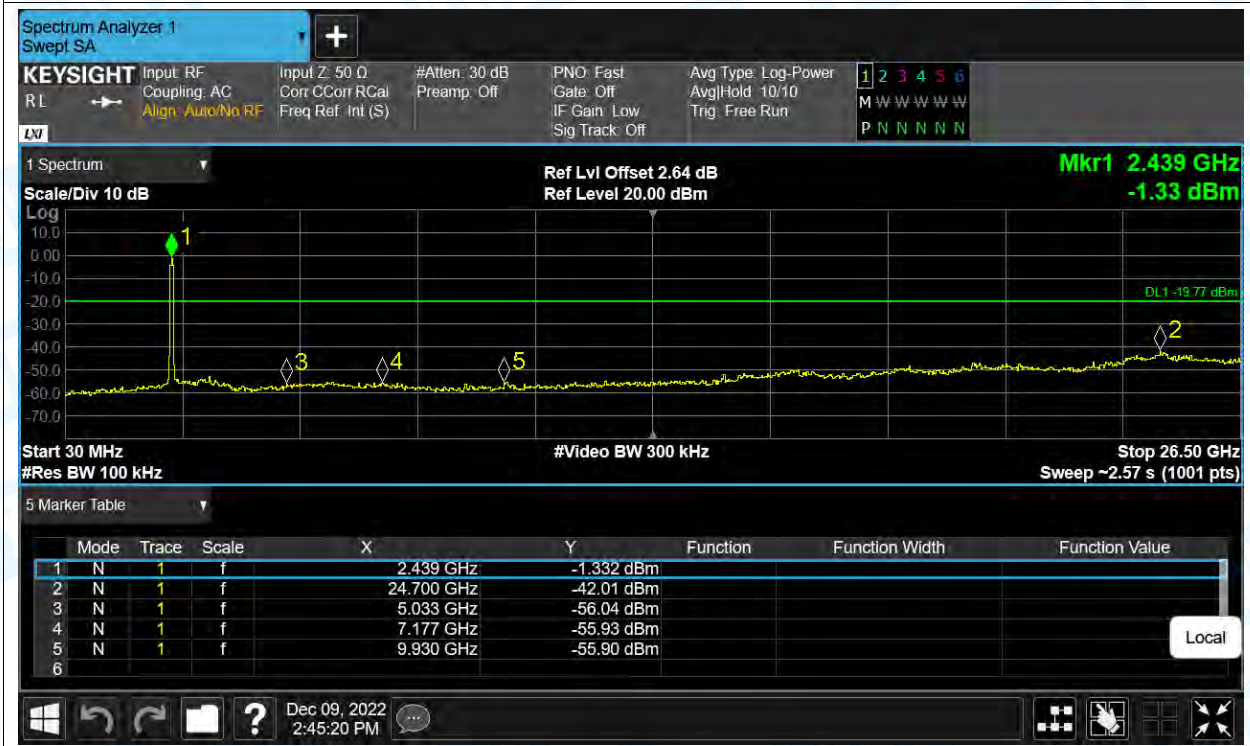
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



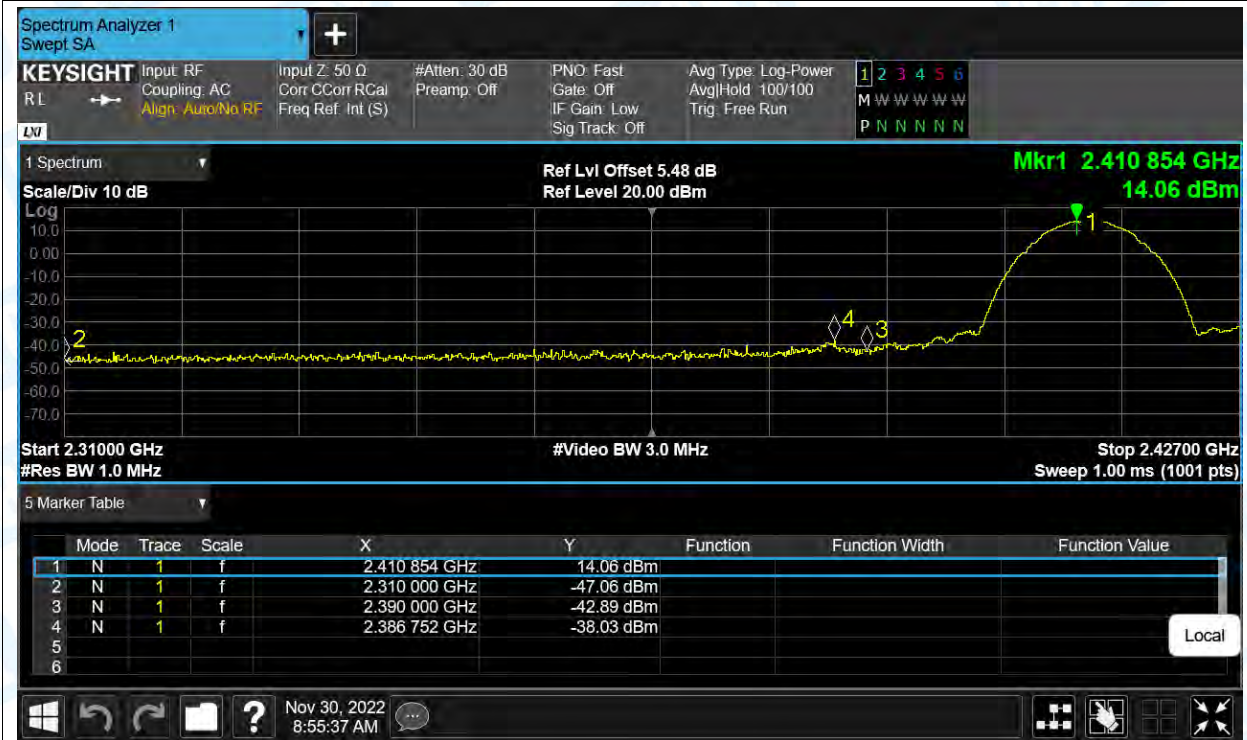
8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-47.06	2.0	51.01	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-56.2	2.0	41.87	Average	54	Pass
NVNT	b	2412	Ant1	2386.752	-38.03	2.0	60.04	Peak	74	Pass
NVNT	b	2412	Ant1	2387.103	-49.75	2.0	48.32	Average	54	Pass
NVNT	b	2412	Ant1	2390	-42.89	2.0	55.18	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-53.42	2.0	44.65	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-39.58	2.0	58.49	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-50.59	2.0	47.48	Average	54	Pass
NVNT	b	2462	Ant1	2486.114	-39.1	2.0	58.97	Peak	74	Pass
NVNT	b	2462	Ant1	2487.598	-49.39	2.0	48.68	Average	54	Pass
NVNT	b	2462	Ant1	2500	-43.99	2.0	54.08	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-53.91	2.0	44.16	Average	54	Pass
NVNT	g	2412	Ant1	2310	-44.05	2.0	54.02	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.43	2.0	42.64	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-28.52	2.0	69.55	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-44.54	2.0	53.53	Average	54	Pass
NVNT	g	2412	Ant1	2390	-27.95	2.0	70.12	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-44.49	2.0	53.58	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-26.85	2.0	71.22	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-44.92	2.0	53.15	Average	54	Pass
NVNT	g	2462	Ant1	2483.517	-26.85	2.0	71.22	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-44.92	2.0	53.15	Average	54	Pass
NVNT	g	2462	Ant1	2500	-41.28	2.0	56.79	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-52.06	2.0	46.01	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-47.21	2.0	50.86	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-56.05	2.0	42.02	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2388.039	-28.87	2.0	69.2	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-47.79	2.0	50.28	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-34.35	2.0	63.72	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-47.66	2.0	50.41	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-31.02	2.0	67.05	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-44.96	2.0	53.11	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2485.001	-28.72	2.0	69.35	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-44.96	2.0	53.11	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-41.52	2.0	56.55	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-52.53	2.0	45.54	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2310	-44.95	2.0	53.12	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2310	-55.69	2.0	42.38	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2387.106	-26.47	2.0	71.6	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2389.946	-46.45	2.0	51.62	Average	54	Pass
NVNT	n(HT40)	2422	Ant1	2390	-36.48	2.0	61.59	Peak	74	Pass
NVNT	n(HT40)	2422	Ant1	2390	-46.44	2.0	51.63	Average	54	Pass

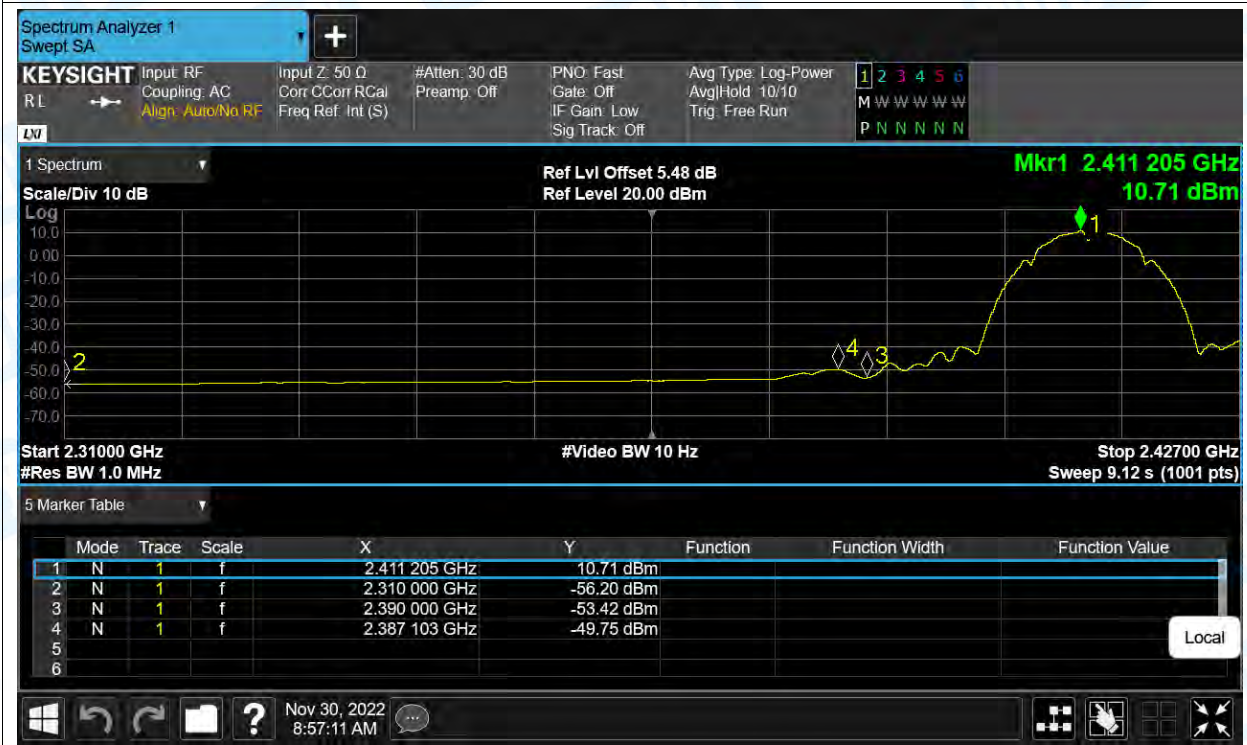
NVNT	n(HT40)	2452	Ant1	2483.5	-34.65	2.0	63.42	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.5	-49.42	2.0	48.65	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2485.258	-26.46	2.0	71.61	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2483.854	-49.35	2.0	48.72	Average	54	Pass
NVNT	n(HT40)	2452	Ant1	2500	-43.56	2.0	54.51	Peak	74	Pass
NVNT	n(HT40)	2452	Ant1	2500	-53.82	2.0	44.25	Average	54	Pass

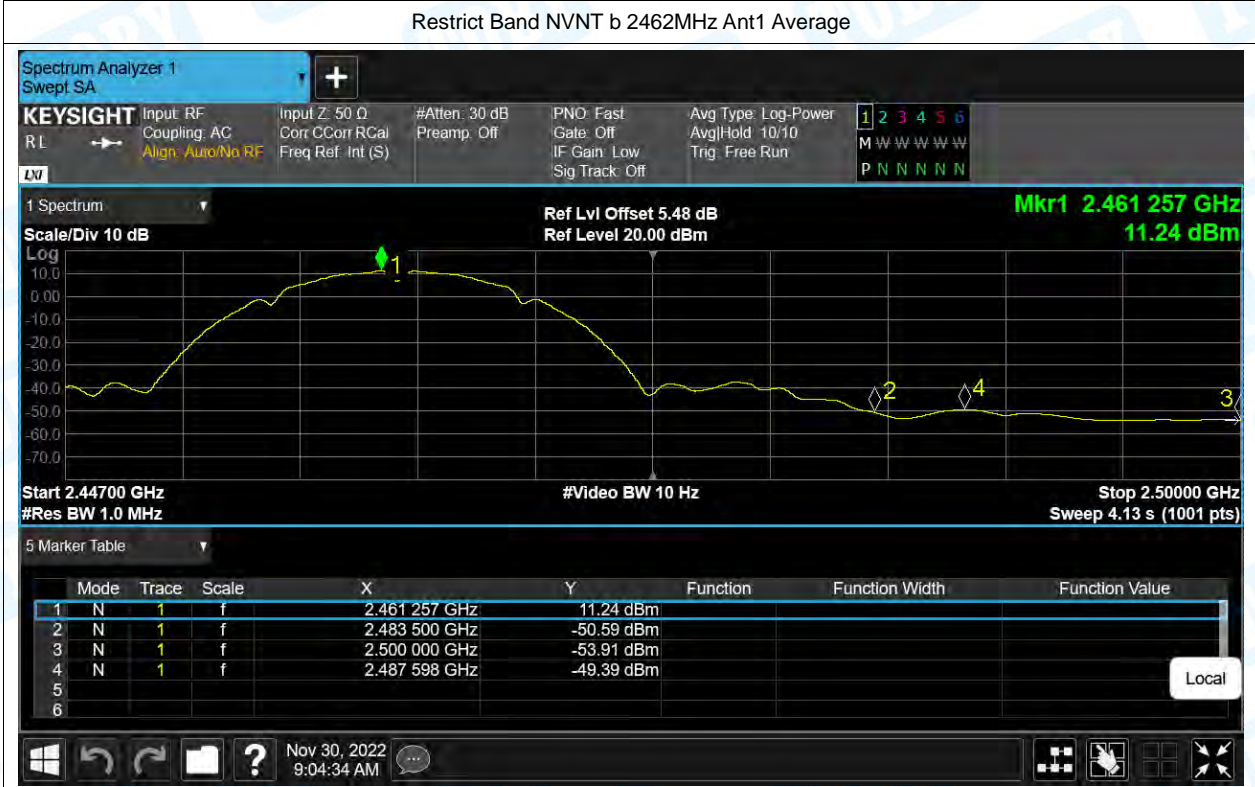
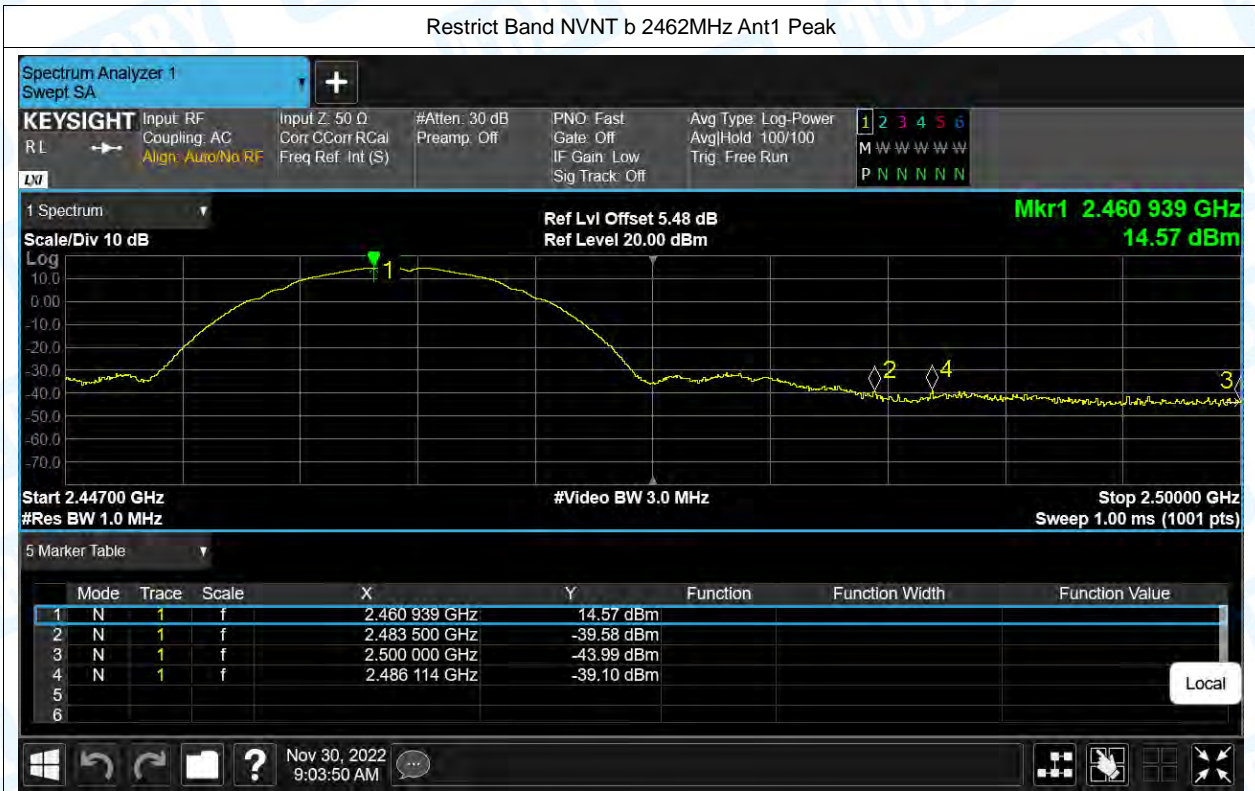
Test Graphs

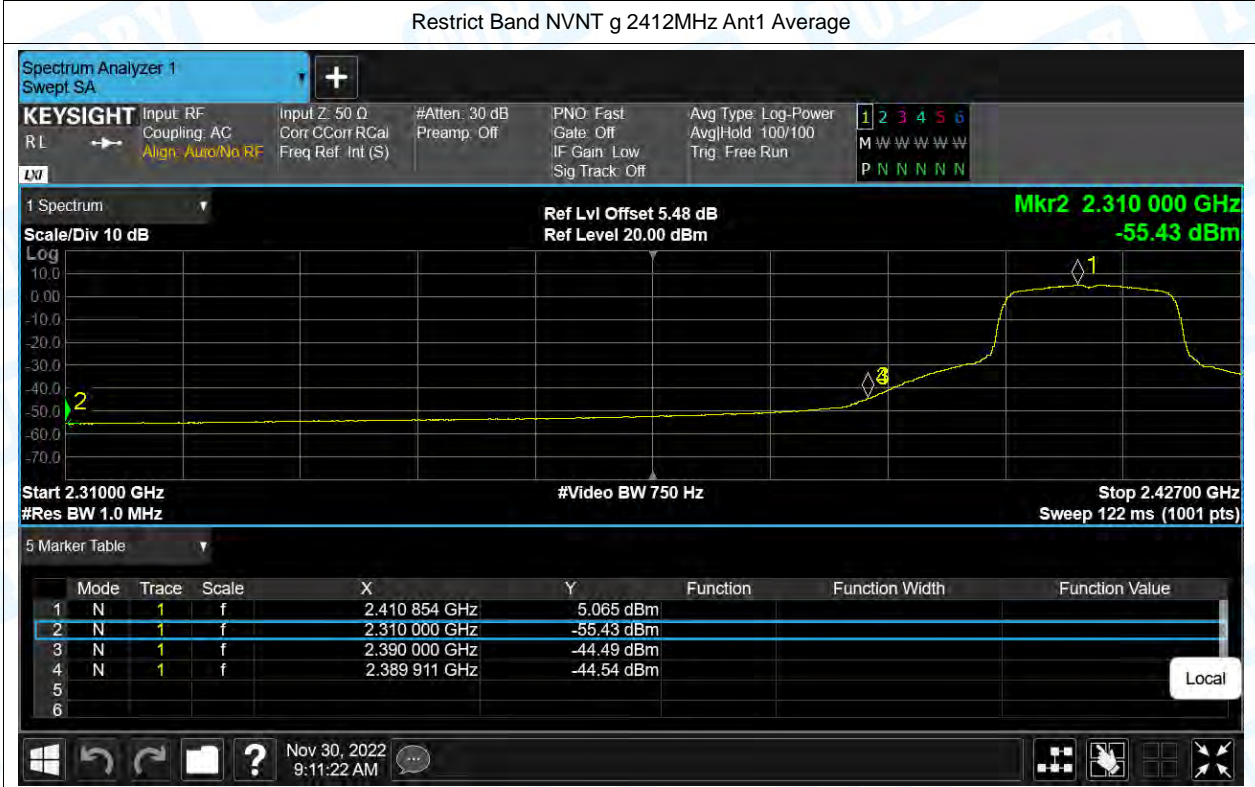
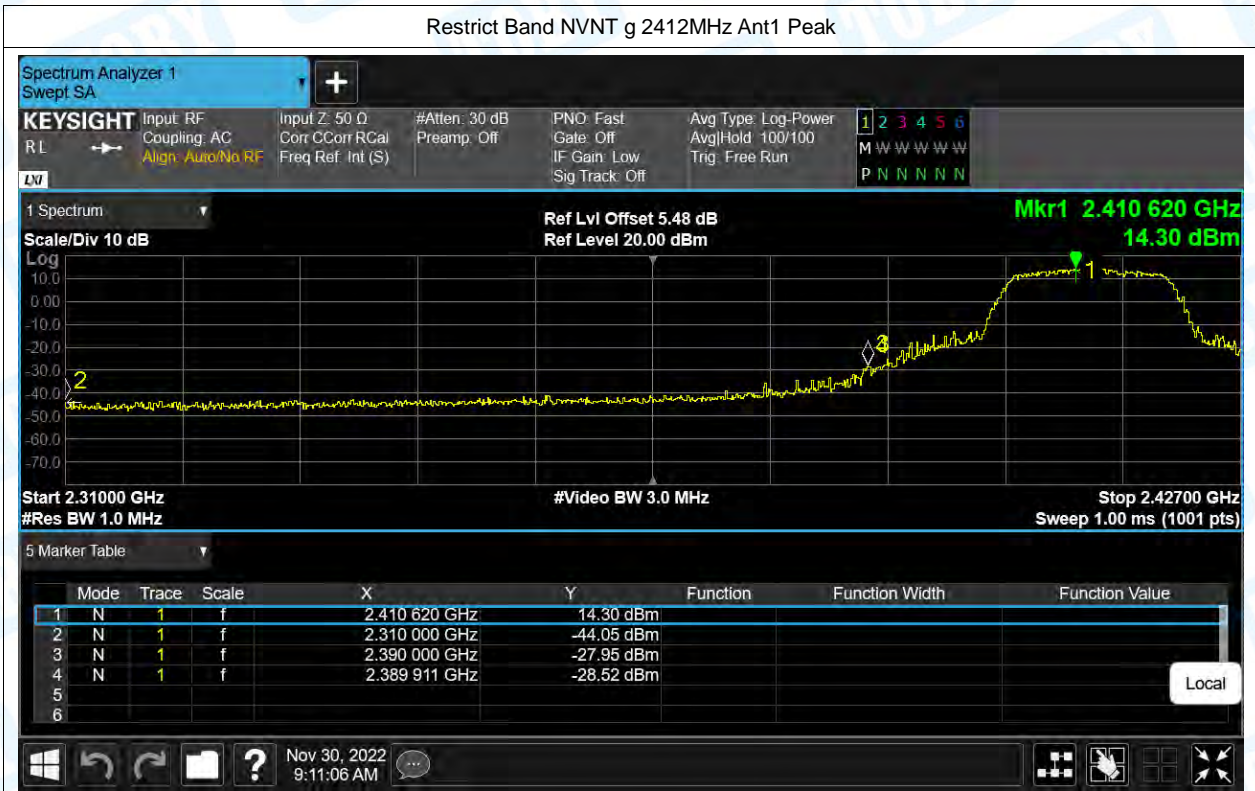
Restrict Band NVNT b 2412MHz Ant1 Peak

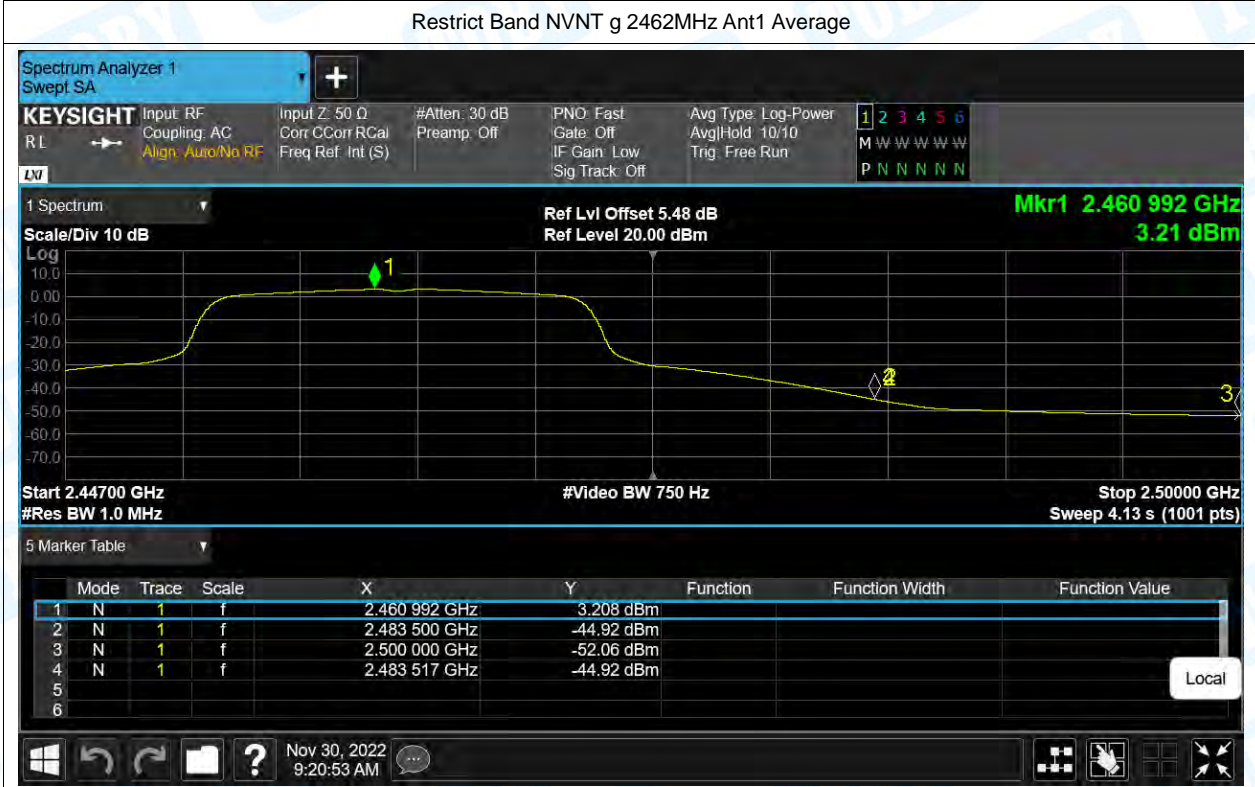
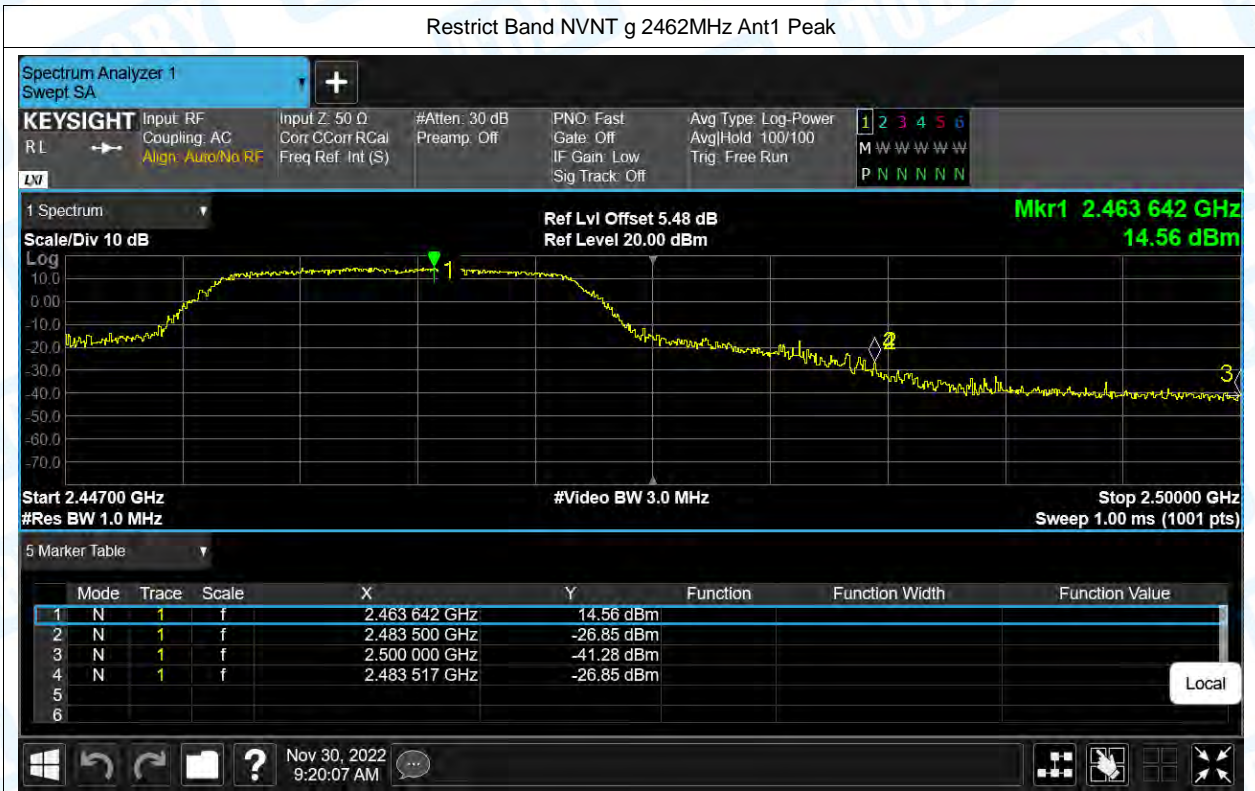


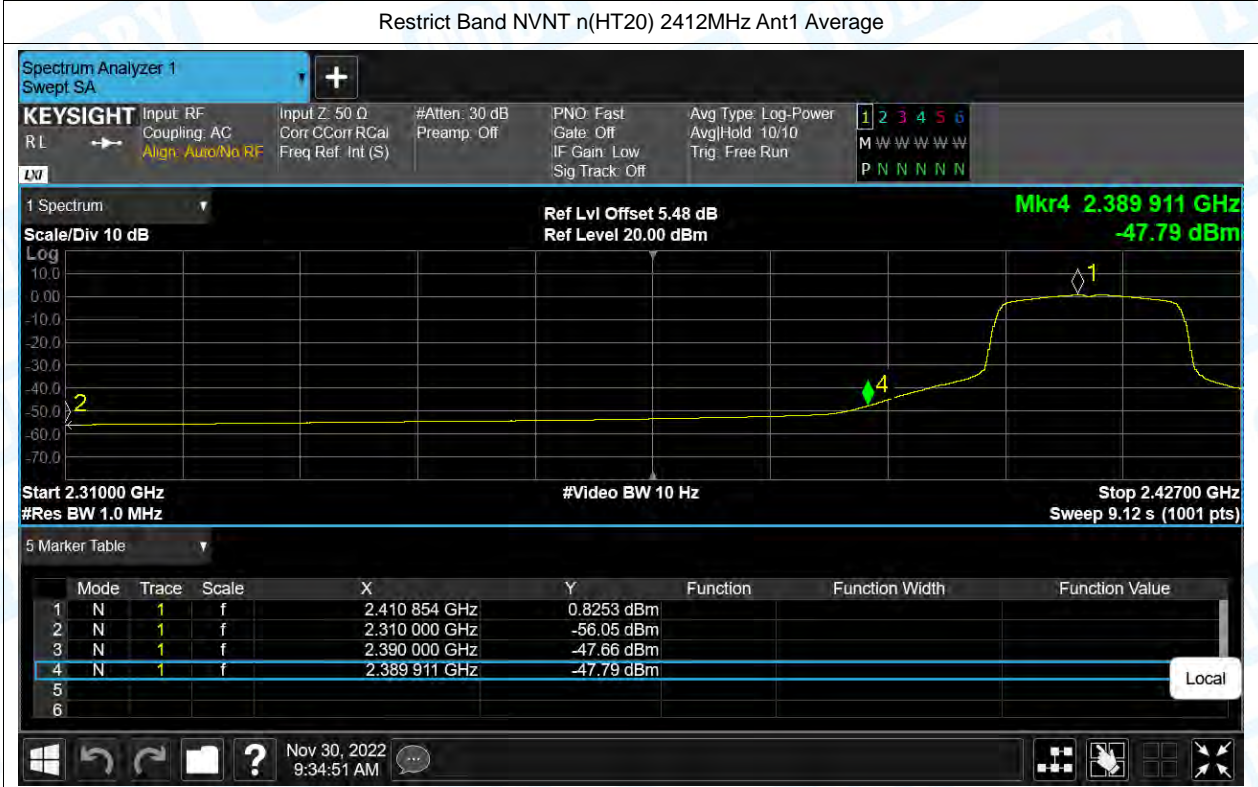
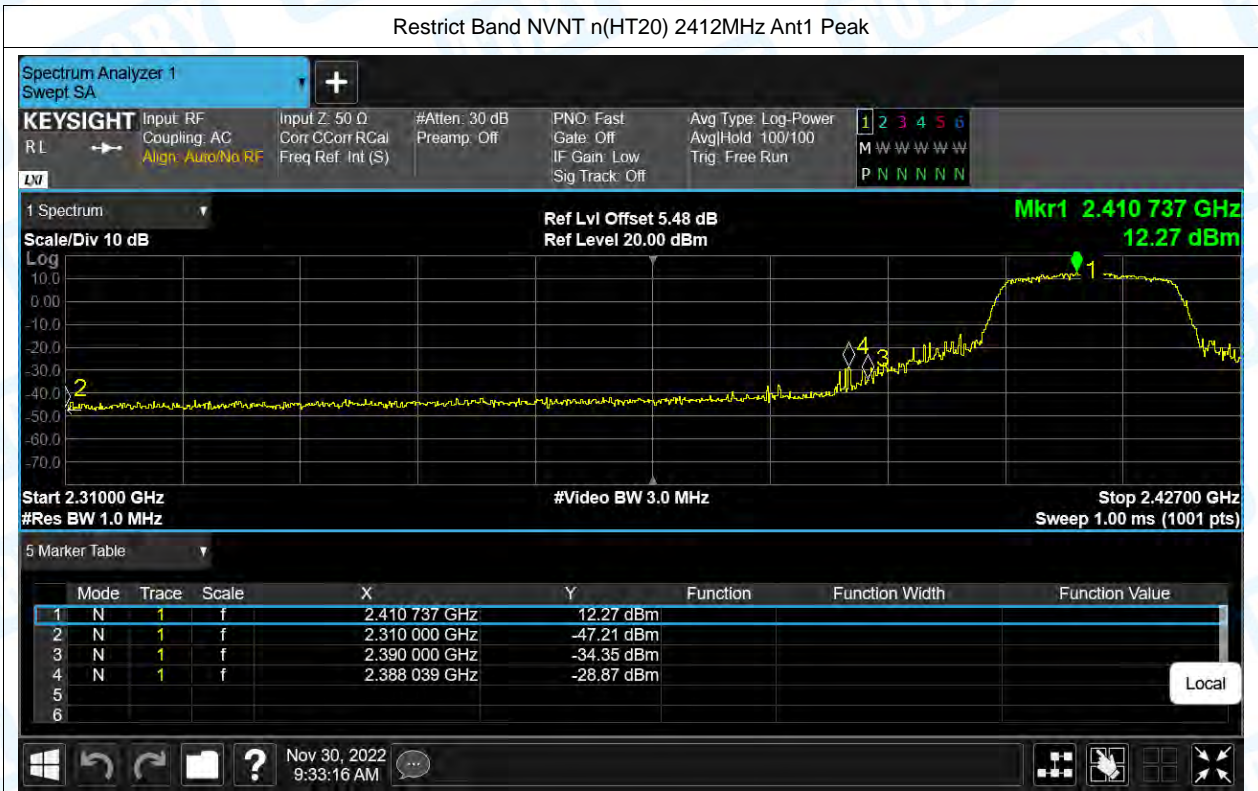
Restrict Band NVNT b 2412MHz Ant1 Average

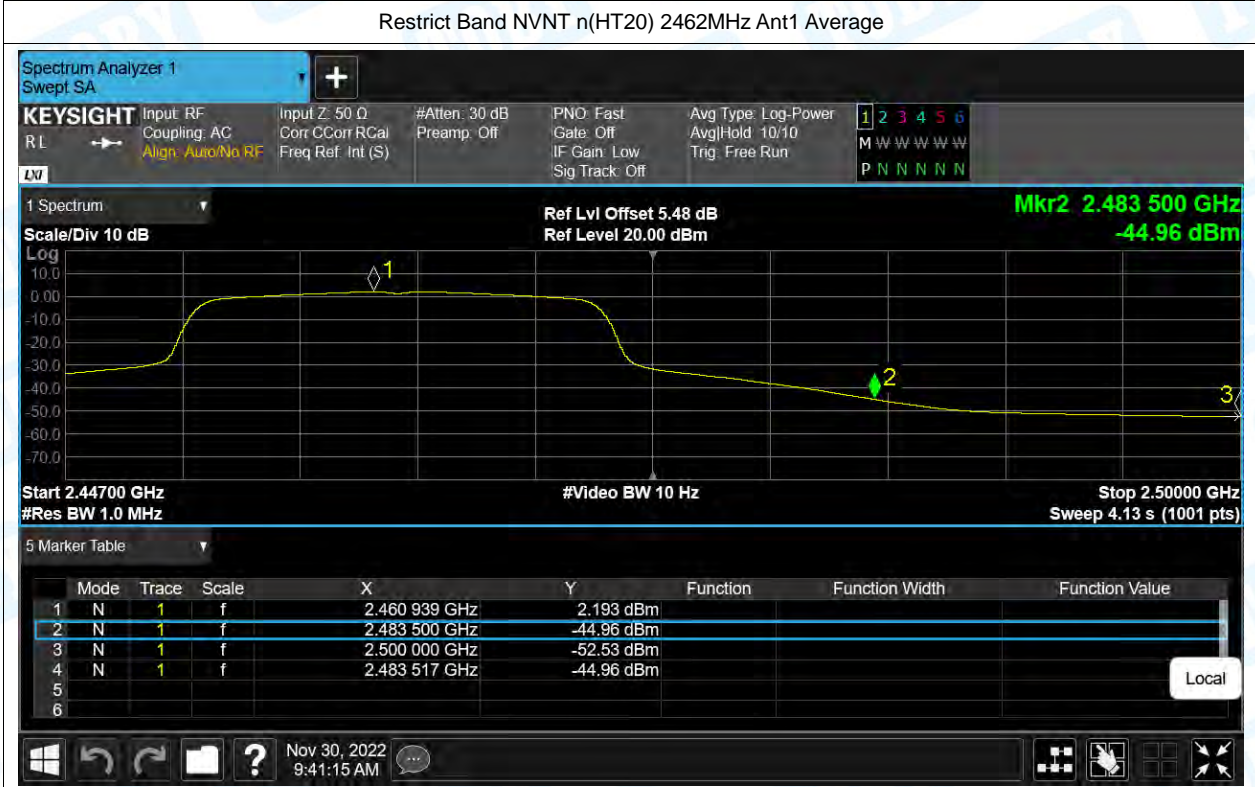
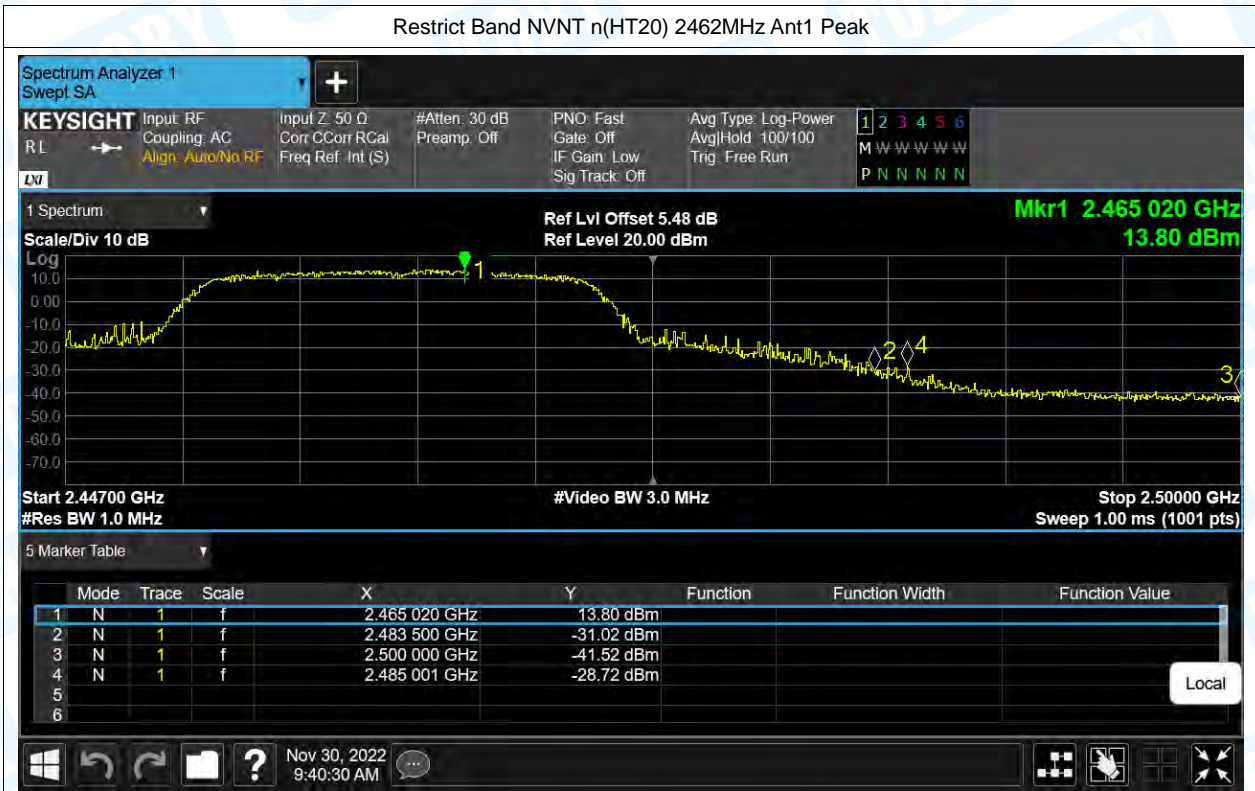


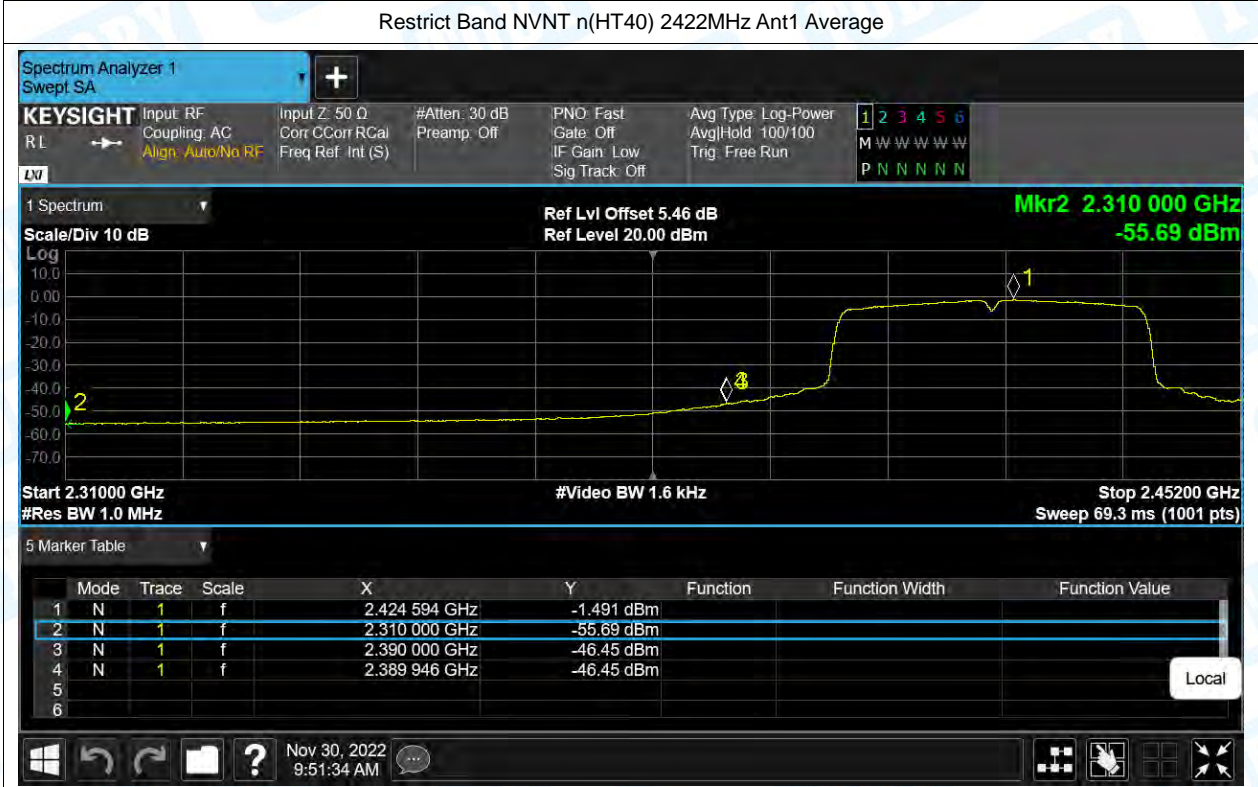
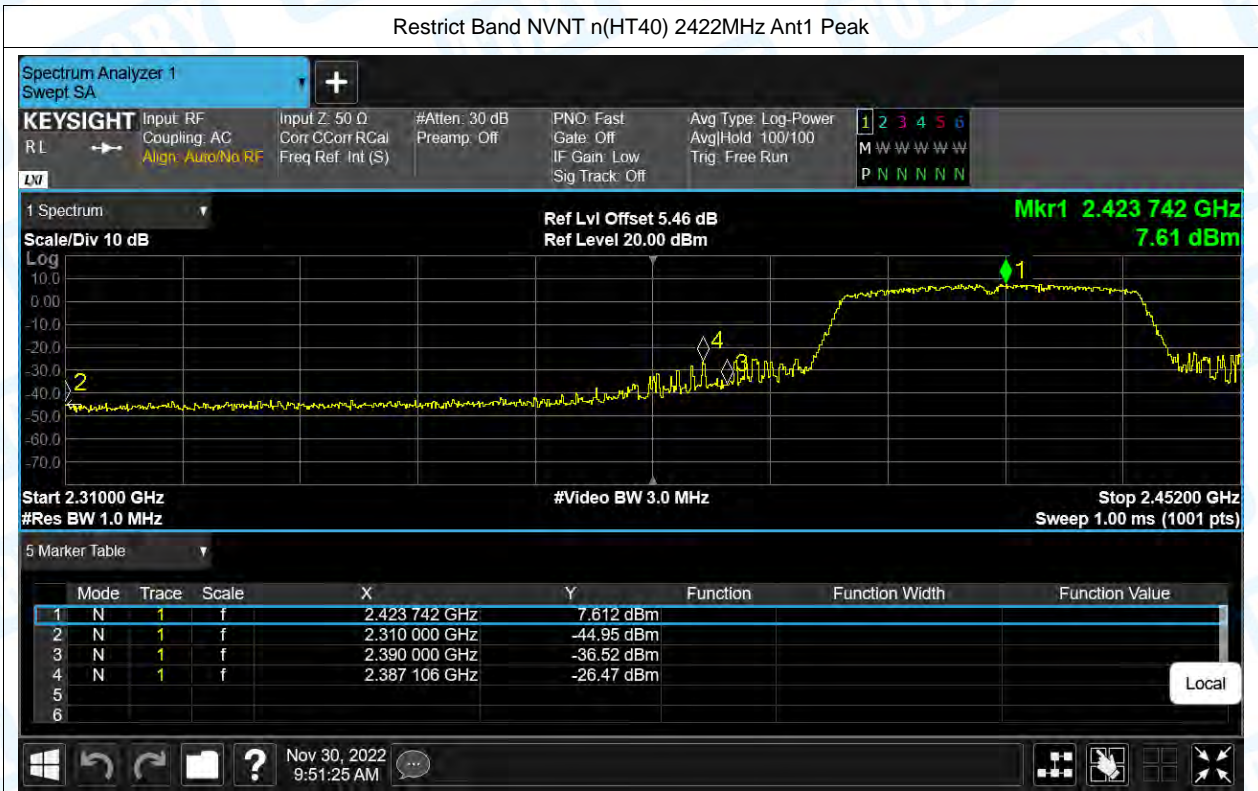


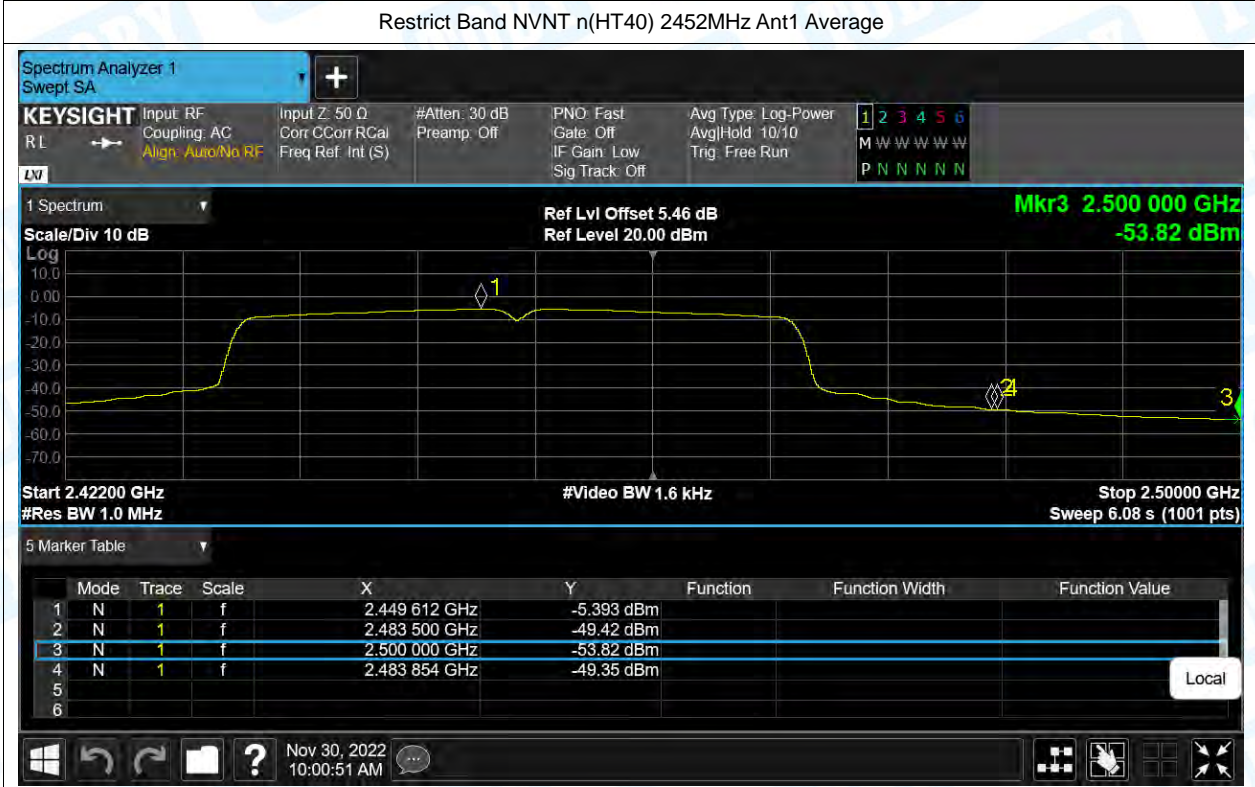
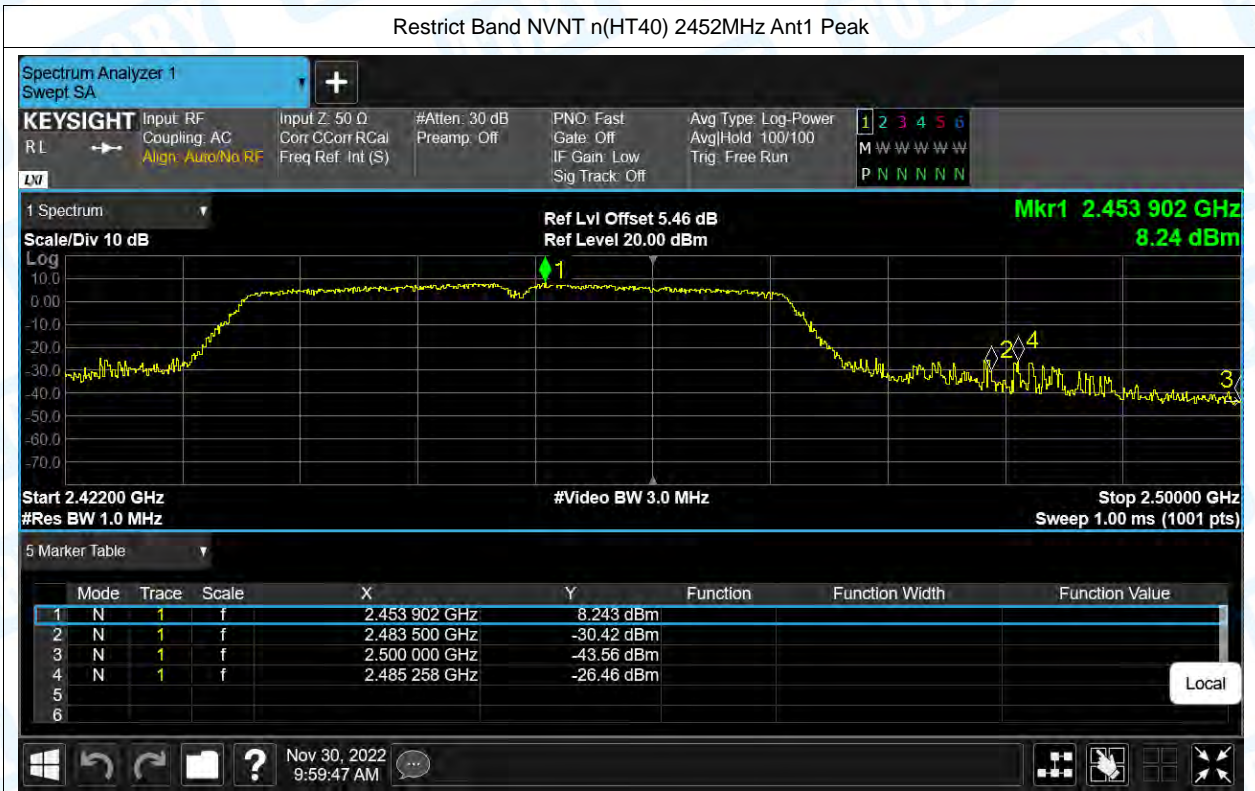












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