

RF Test Data for 2.4G WiFi

(Conducted Measurements)

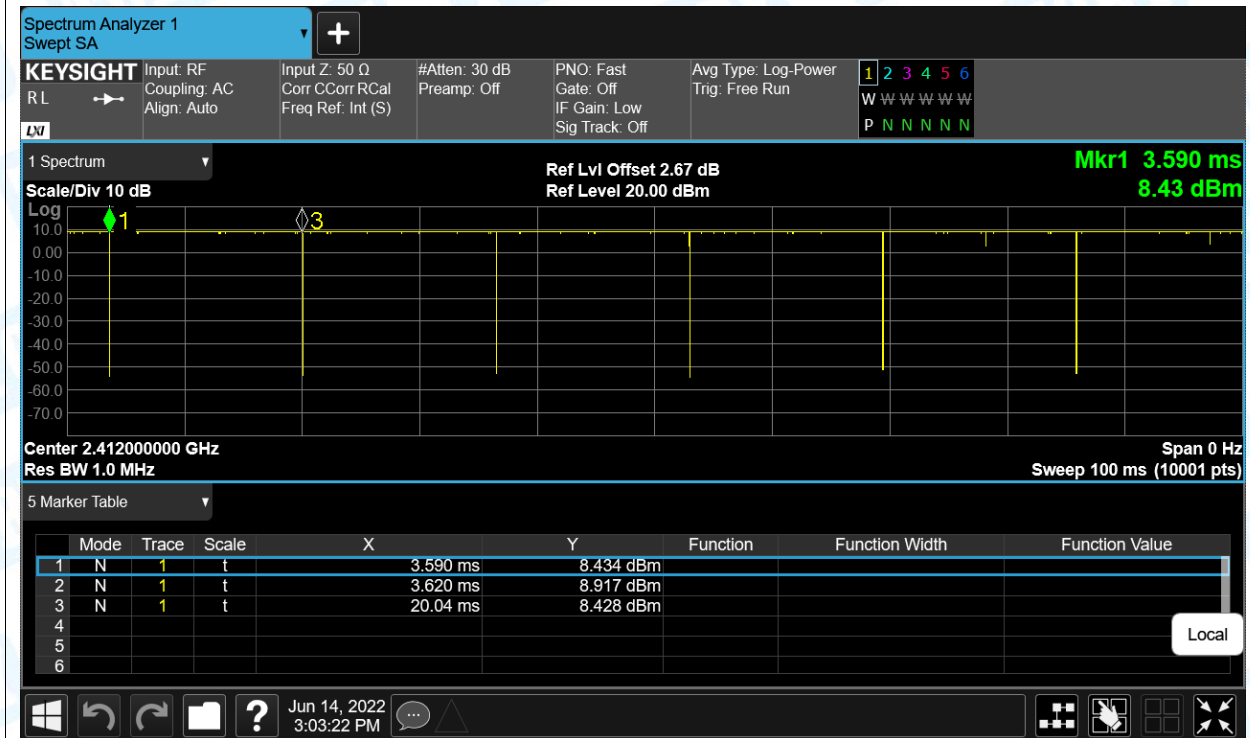
General Description of EUT	
Product Name:	Wireless Smart Battery Camera
Test Model:	CG6S
Sample ID:	202205-0351-5-2
Environmental Conditions	
Temperature:	23℃
Relative Humidity:	50%
Test Voltage:	DC 3.6V
Test Engineer:	Liufeng
Note: For a more detailed features description, please refer to the report TBR-C-202205-0351-5.	

Duty Cycle

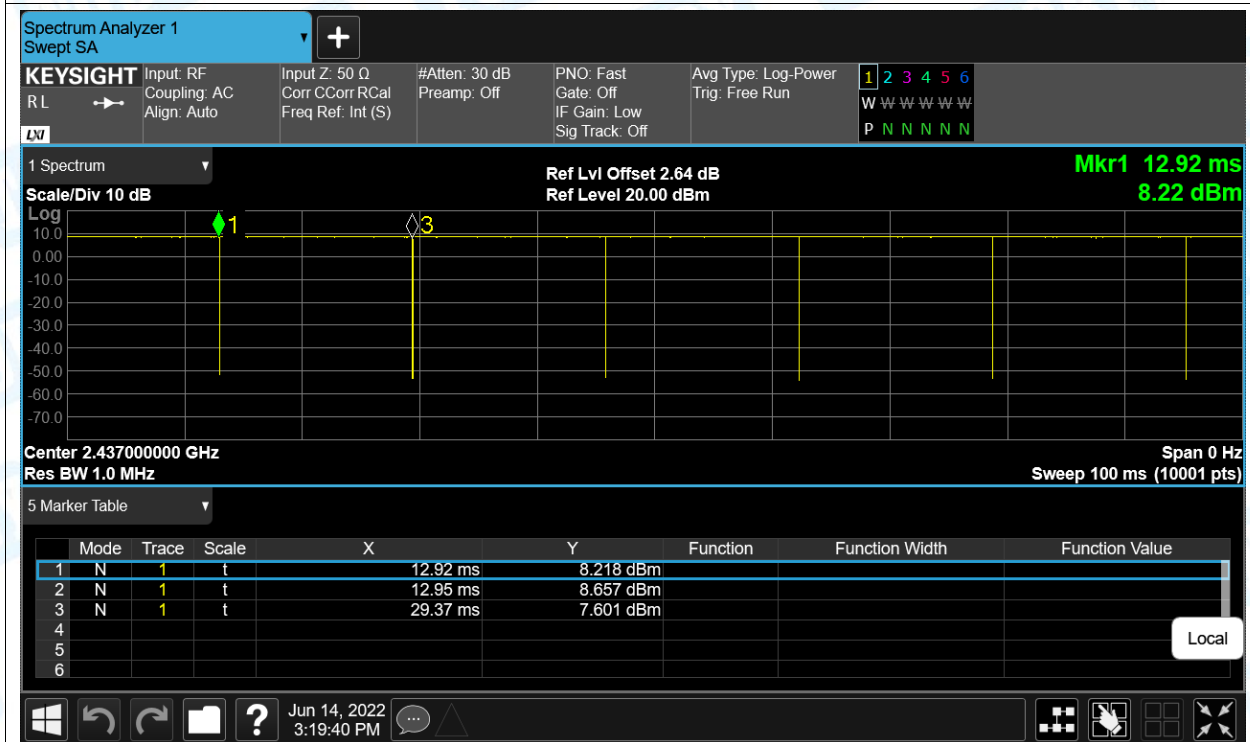
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.88	0.01	0.06
NVNT	b	2437	Ant1	99.88	0.01	0.06
NVNT	b	2462	Ant1	99.88	0.01	0.06
NVNT	g	2412	Ant1	99.13	0.04	0.37
NVNT	g	2437	Ant1	99.12	0.04	0.36
NVNT	g	2462	Ant1	99.11	0.04	0.37
NVNT	n(HT20)	2412	Ant1	98.99	0.04	0.39
NVNT	n(HT20)	2437	Ant1	92.65	0.33	3.45
NVNT	n(HT20)	2462	Ant1	99.01	0.04	0.39

Test Graphs

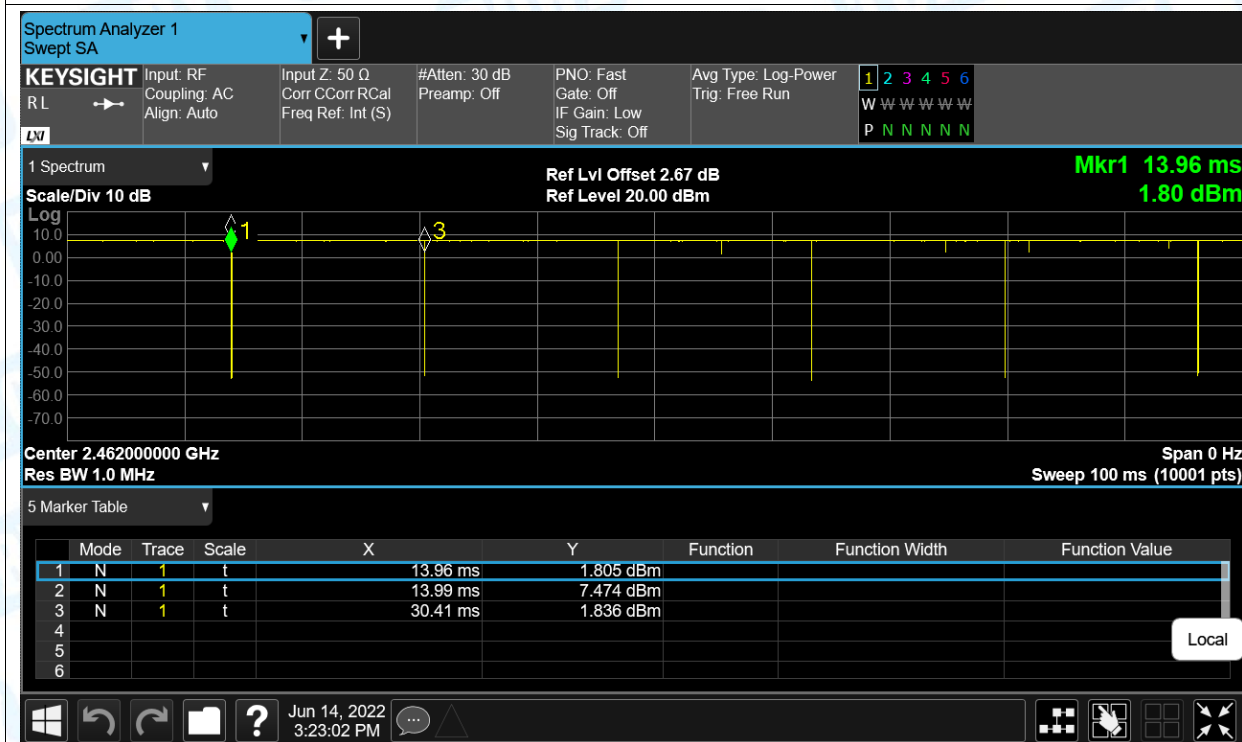
Duty Cycle NVNT b 2412MHz Ant1



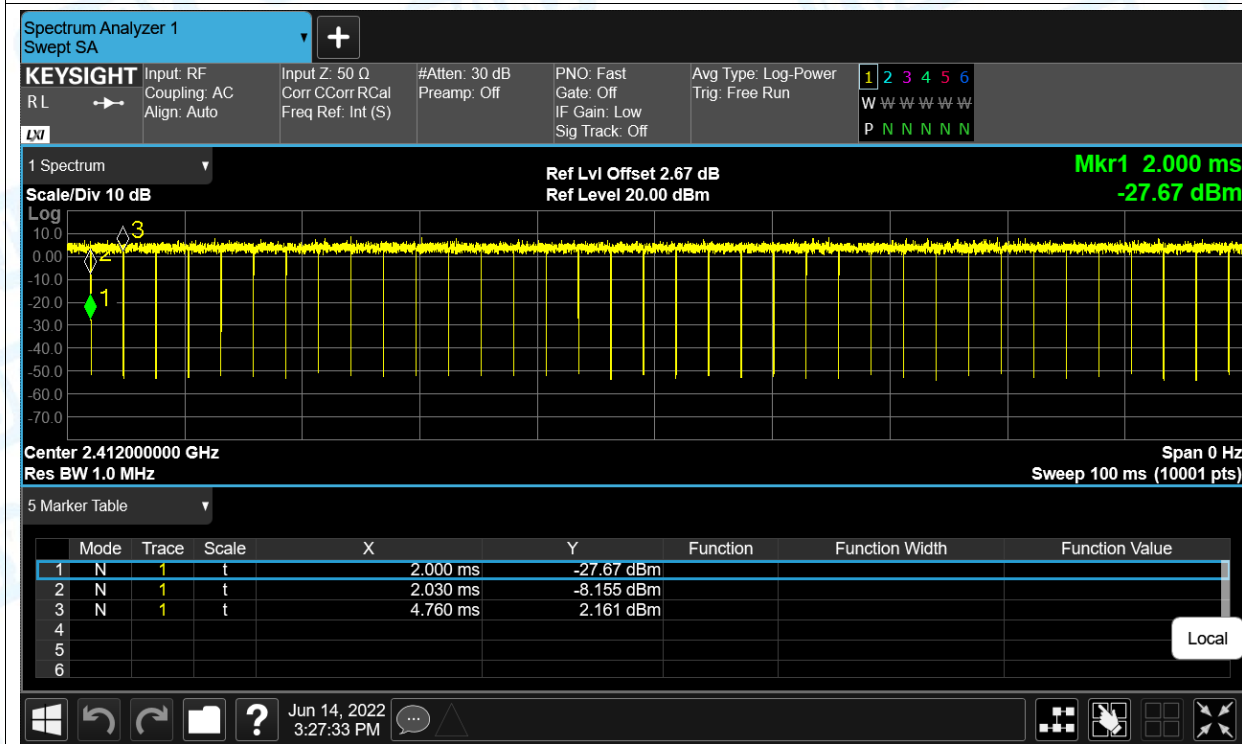
Duty Cycle NVNT b 2437MHz Ant1

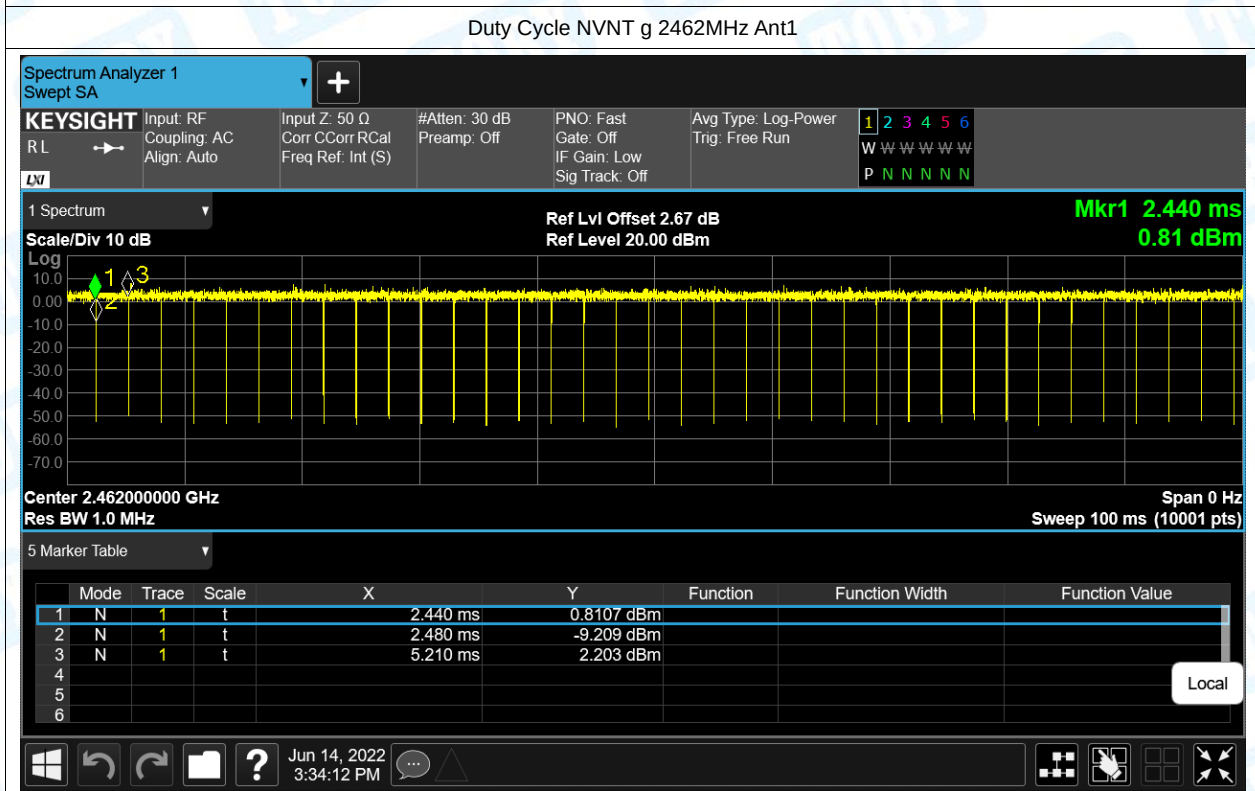
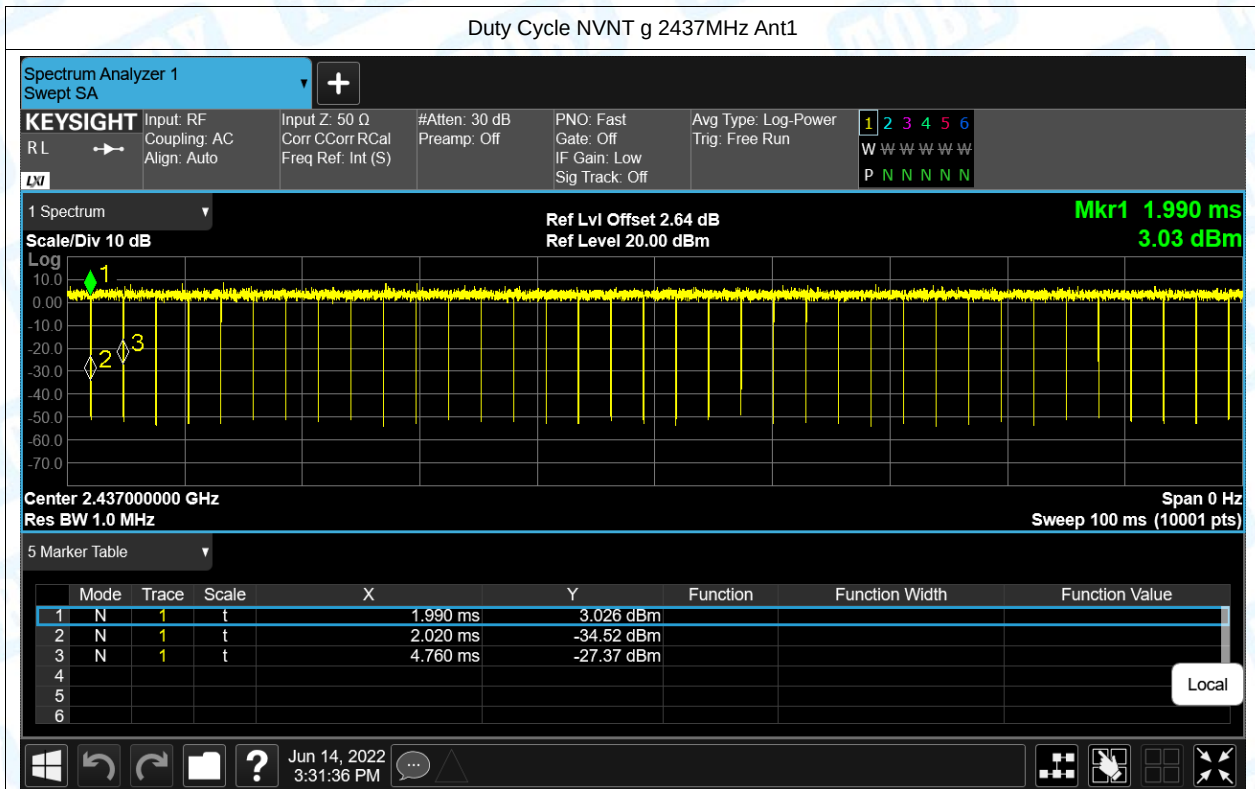


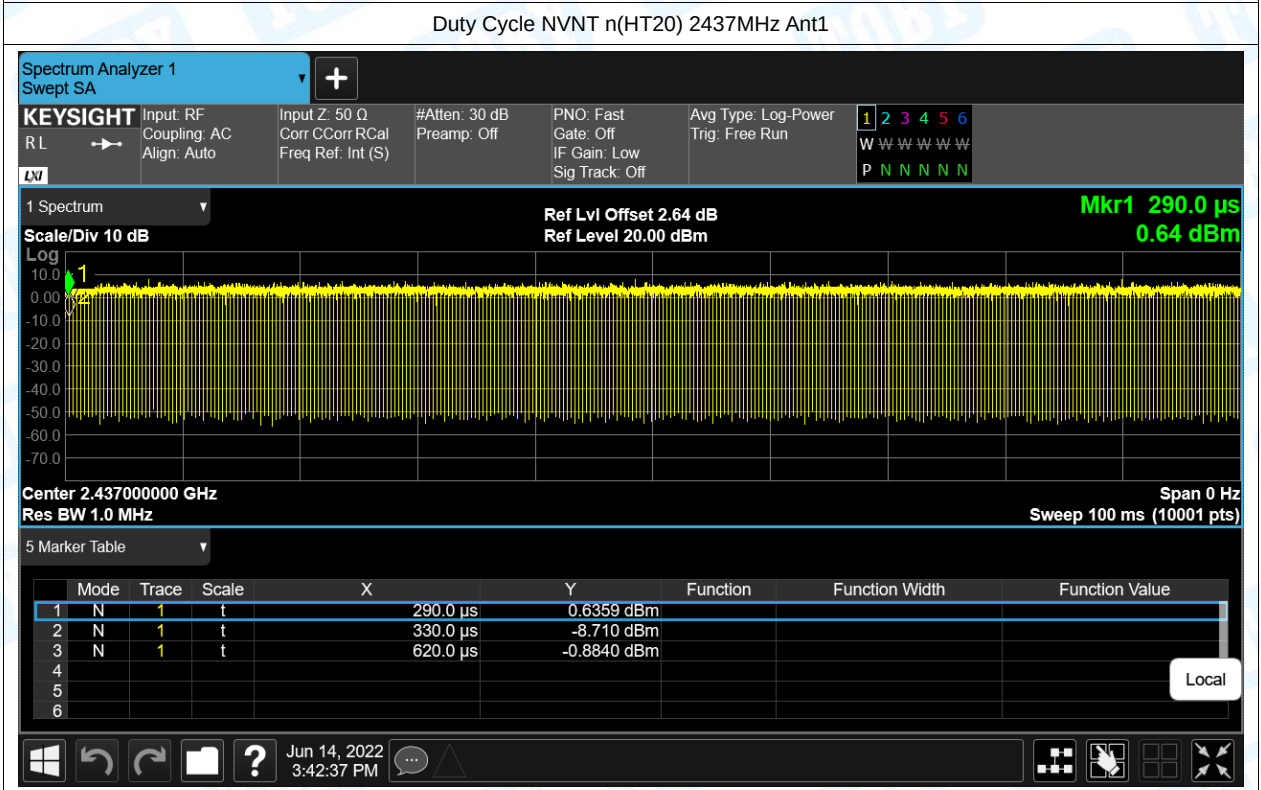
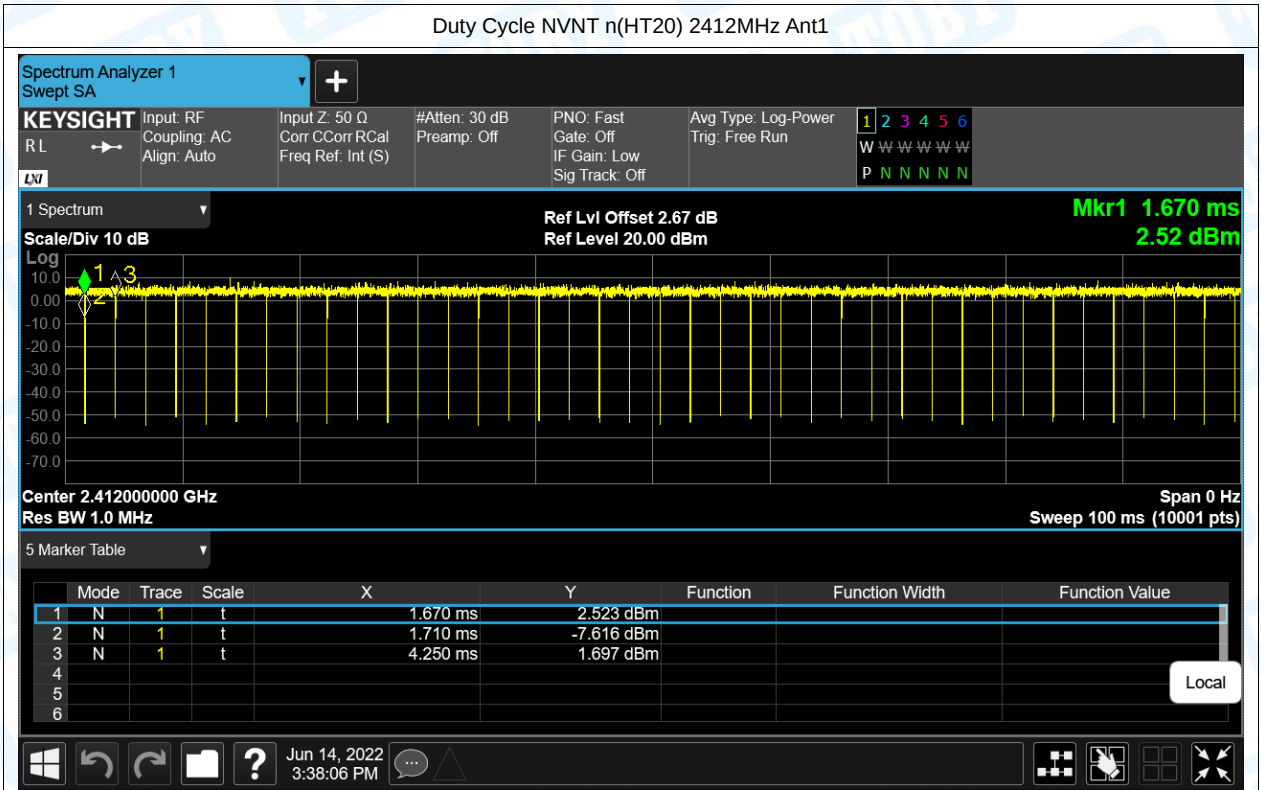
Duty Cycle NVNT b 2462MHz Ant1

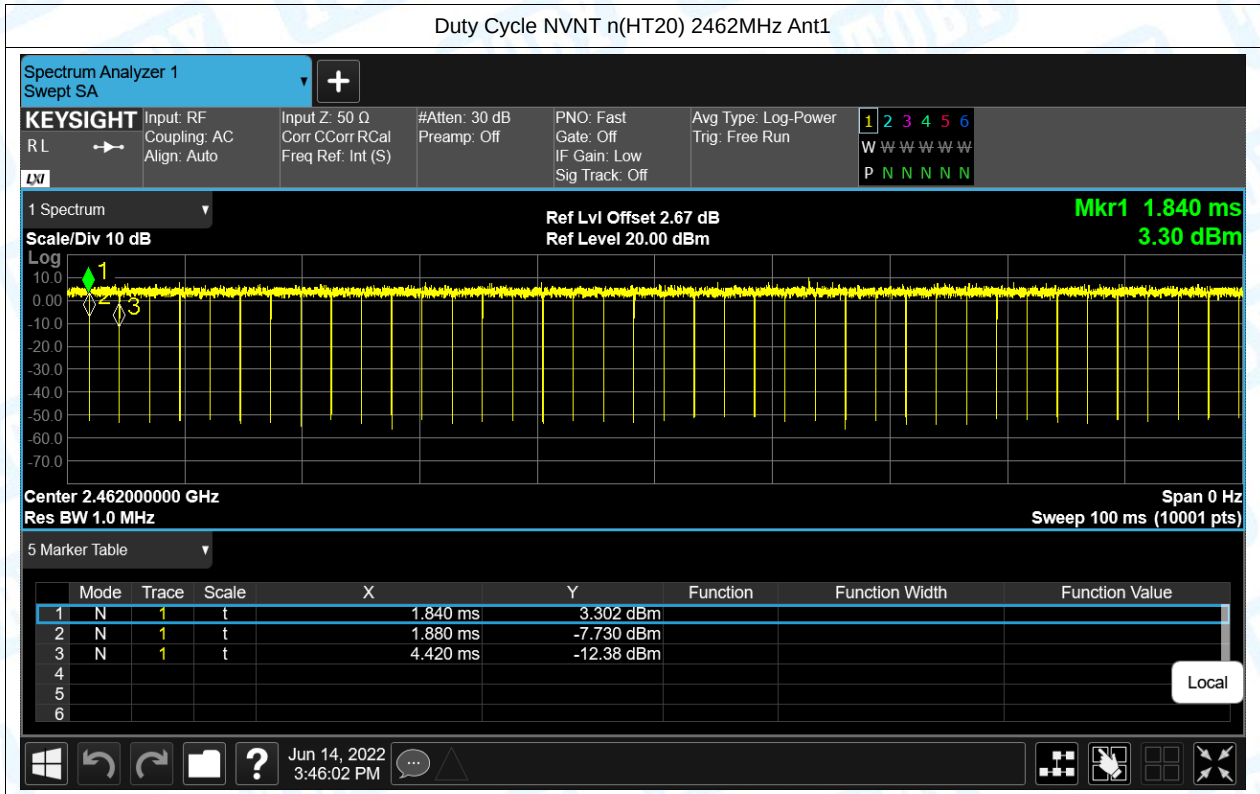


Duty Cycle NVNT g 2412MHz Ant1









Maximum Conducted Output Power

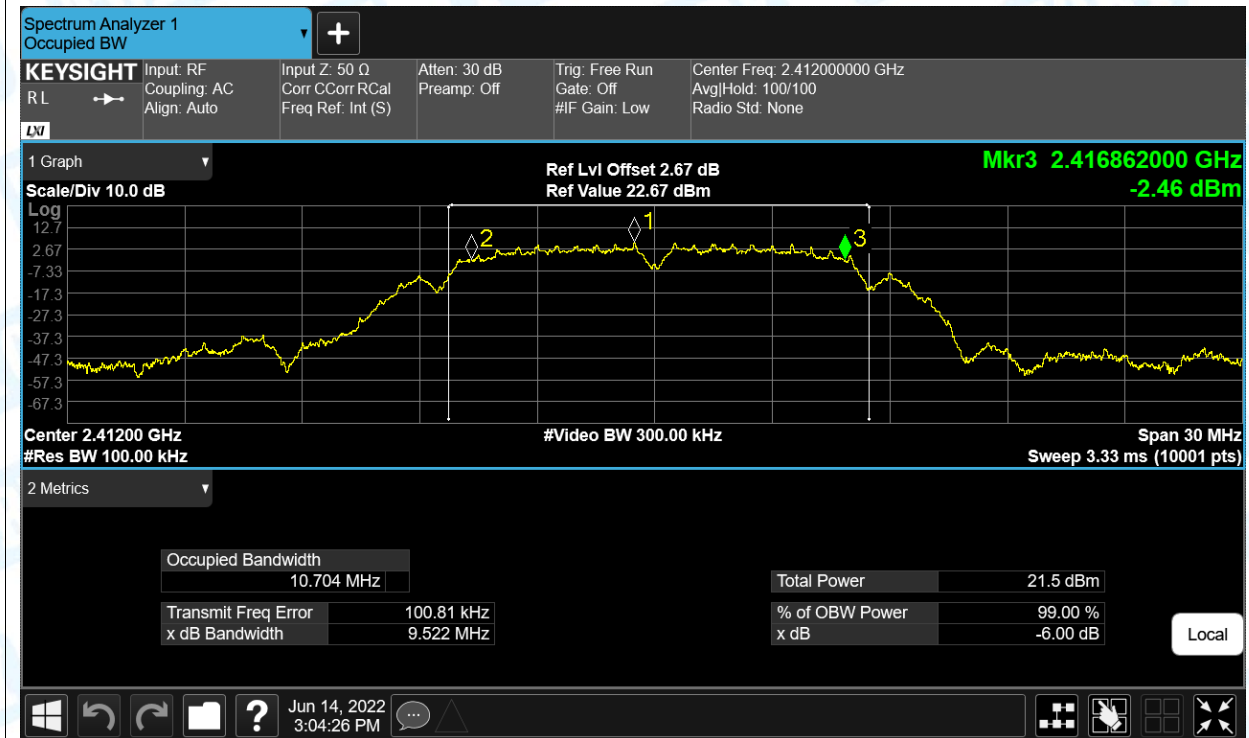
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.407	30	Pass
NVNT	b	2437	Ant1	16.192	30	Pass
NVNT	b	2462	Ant1	15.135	30	Pass
NVNT	g	2412	Ant1	16.197	30	Pass
NVNT	g	2437	Ant1	15.752	30	Pass
NVNT	g	2462	Ant1	14.994	30	Pass
NVNT	n(HT20)	2412	Ant1	16.672	30	Pass
NVNT	n(HT20)	2437	Ant1	15.881	30	Pass
NVNT	n(HT20)	2462	Ant1	16.42	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.522	0.5	Pass
NVNT	b	2437	Ant1	9.145	0.5	Pass
NVNT	b	2462	Ant1	9.529	0.5	Pass
NVNT	g	2412	Ant1	16.35	0.5	Pass
NVNT	g	2437	Ant1	16.35	0.5	Pass
NVNT	g	2462	Ant1	16.44	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.59	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.71	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.61	0.5	Pass

Test Graphs

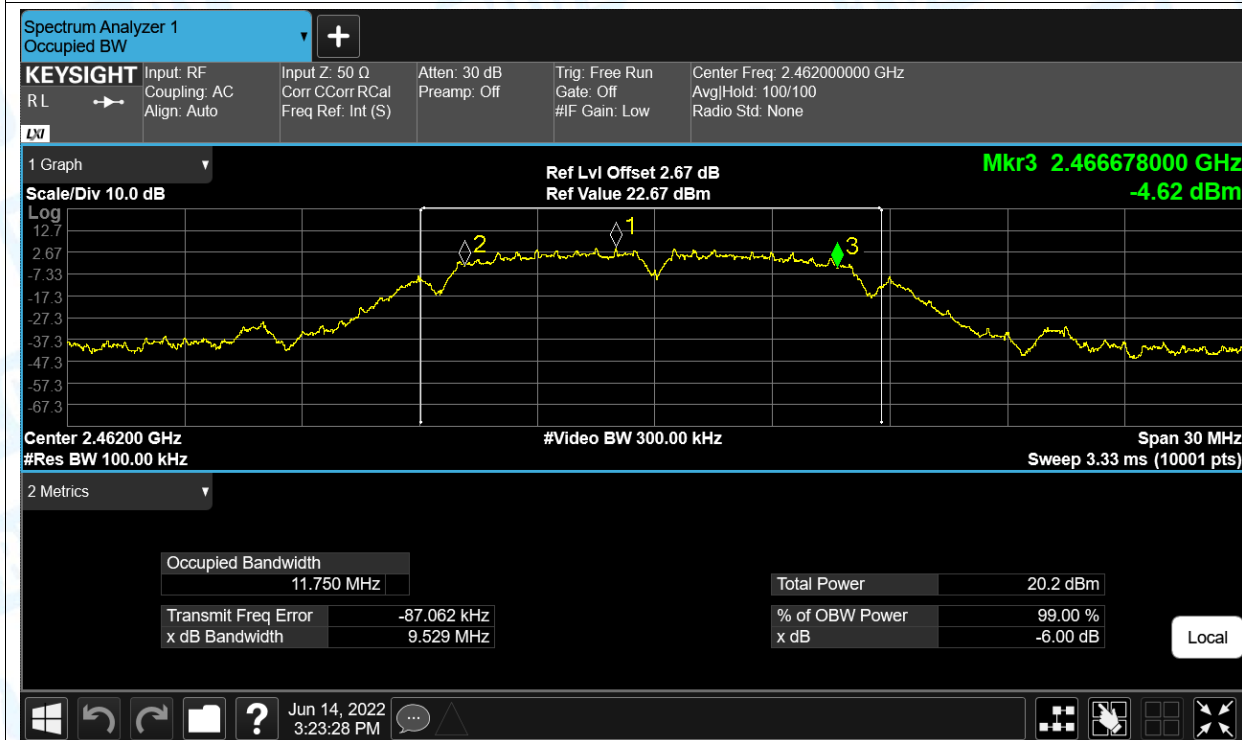
-6dB Bandwidth NVNT b 2412MHz Ant1



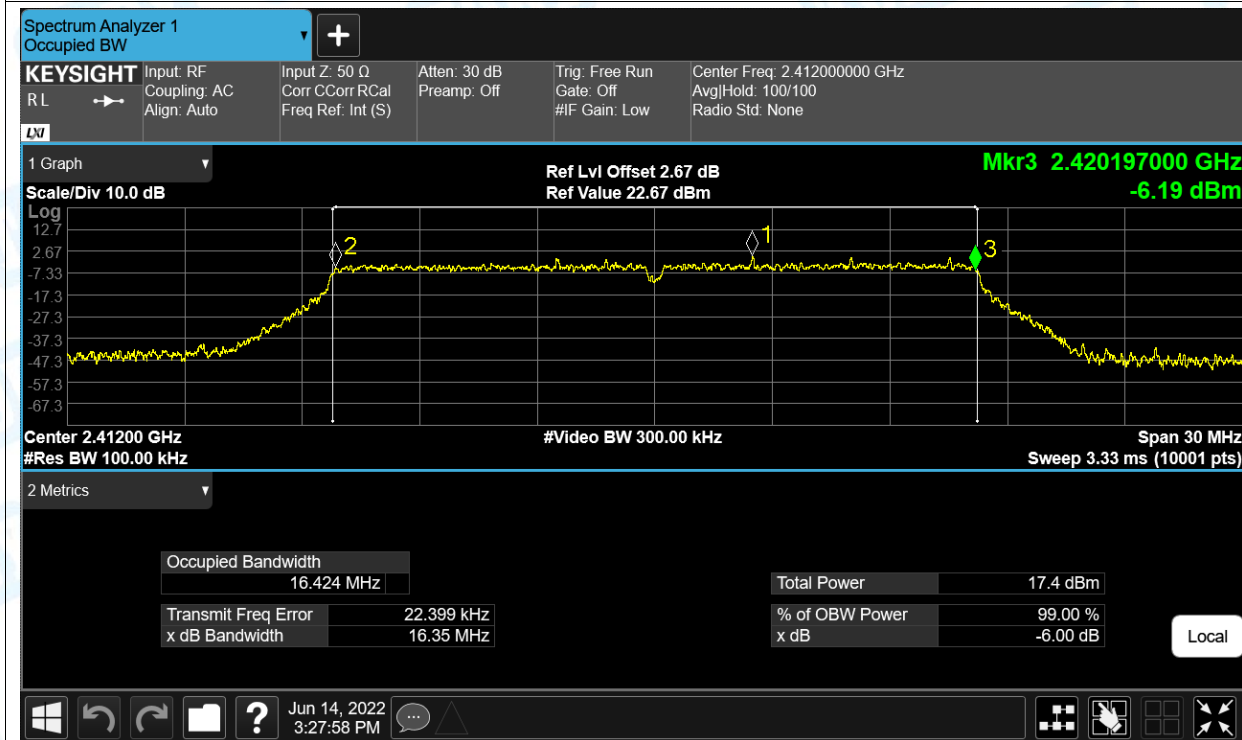
-6dB Bandwidth NVNT b 2437MHz Ant1



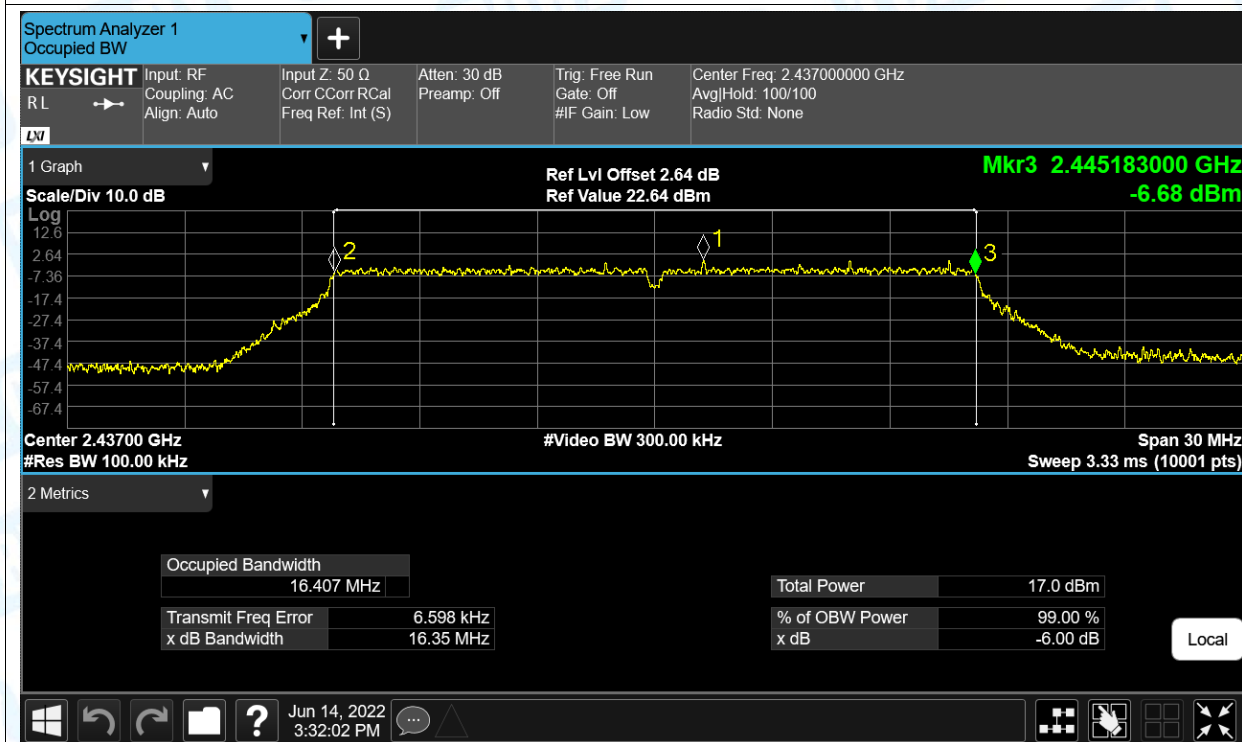
-6dB Bandwidth NVNT b 2462MHz Ant1



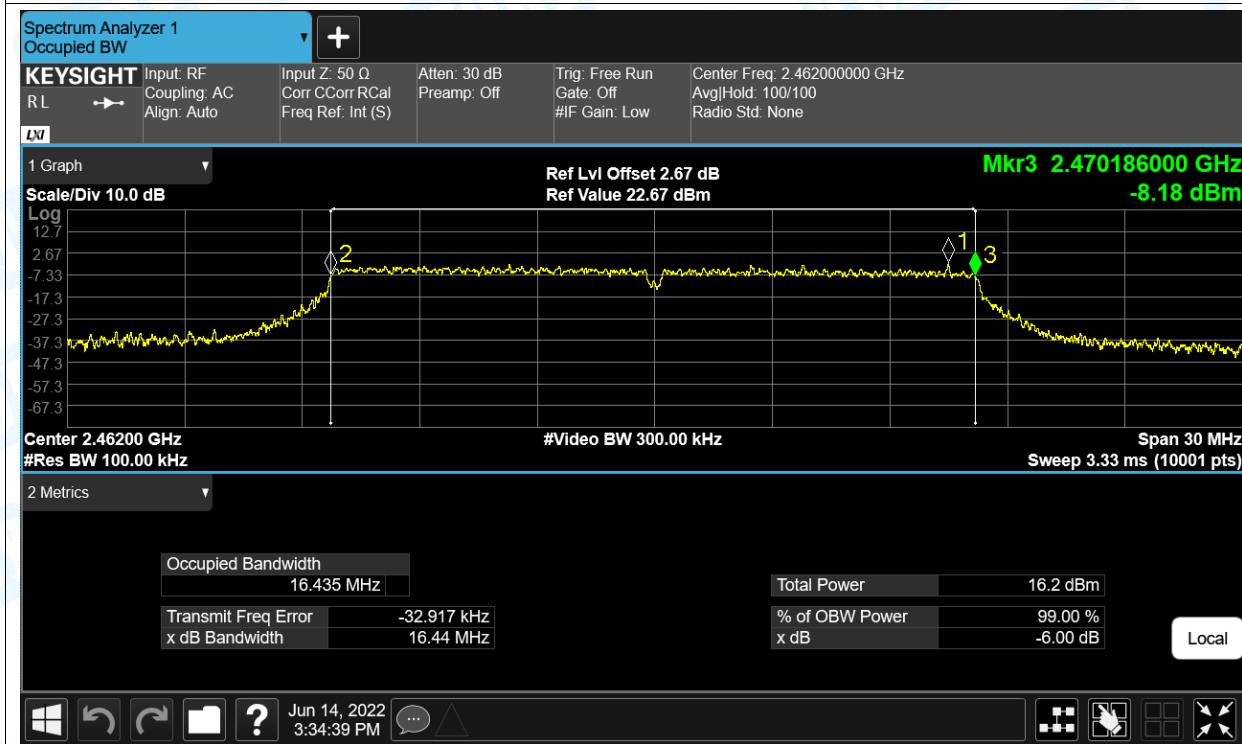
-6dB Bandwidth NVNT g 2412MHz Ant1



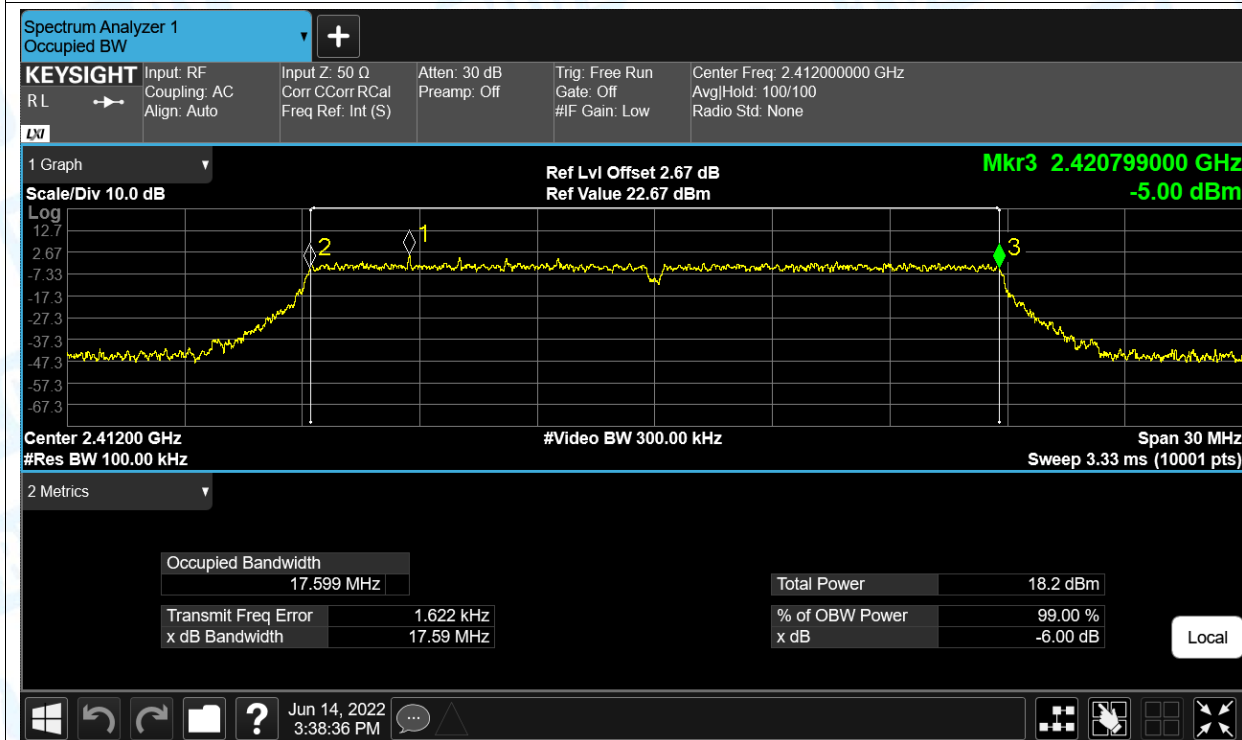
-6dB Bandwidth NVNT g 2437MHz Ant1



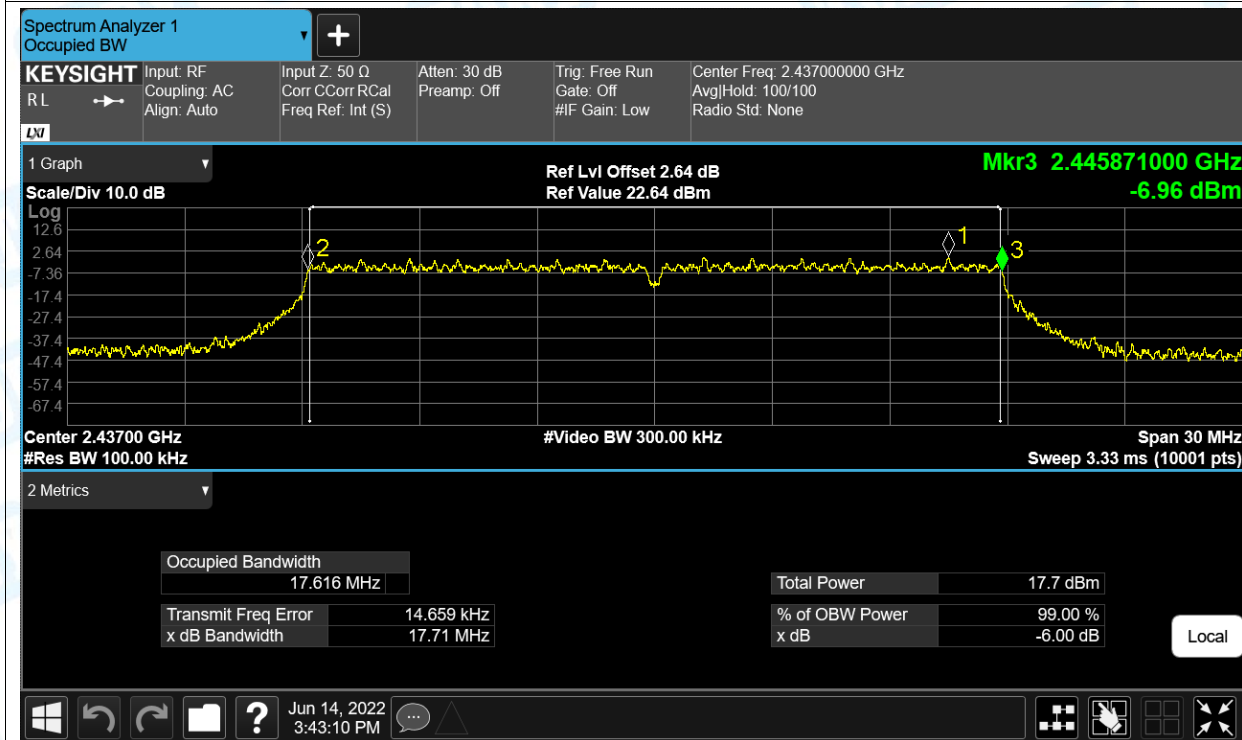
-6dB Bandwidth NVNT g 2462MHz Ant1

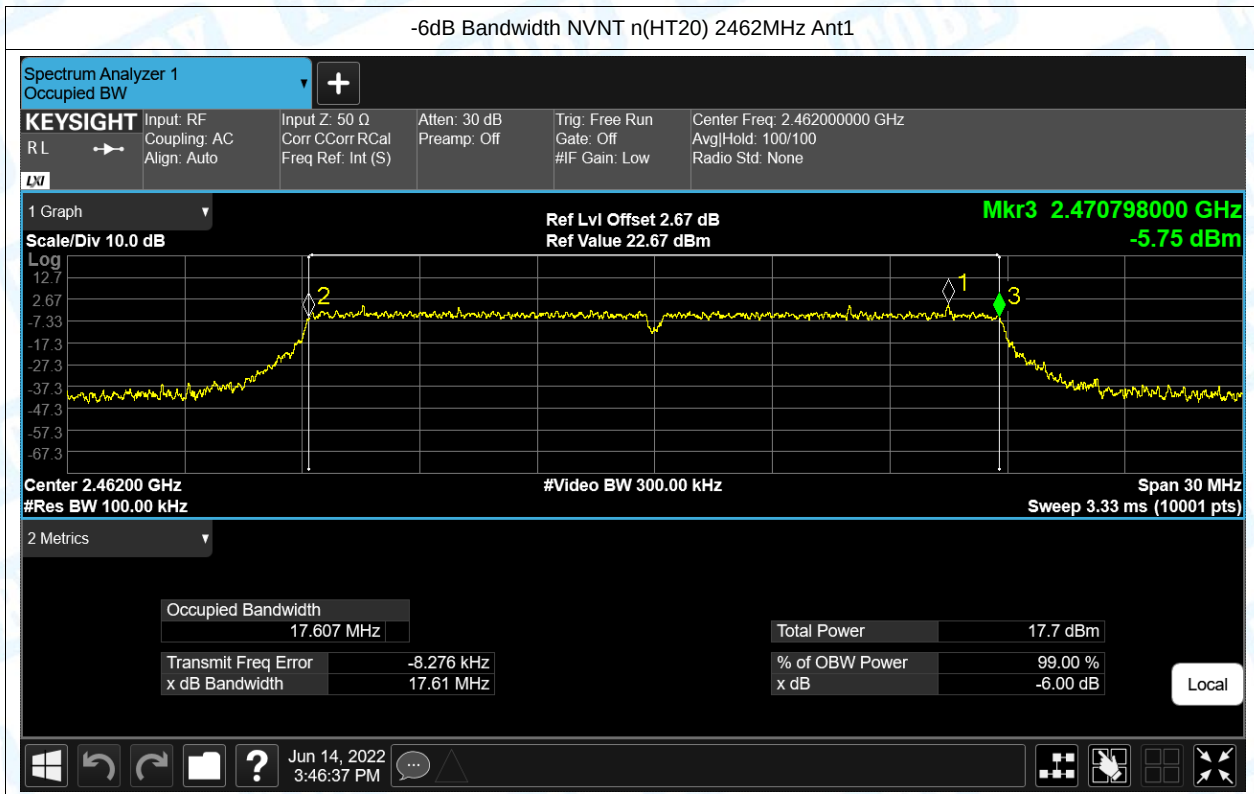


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



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



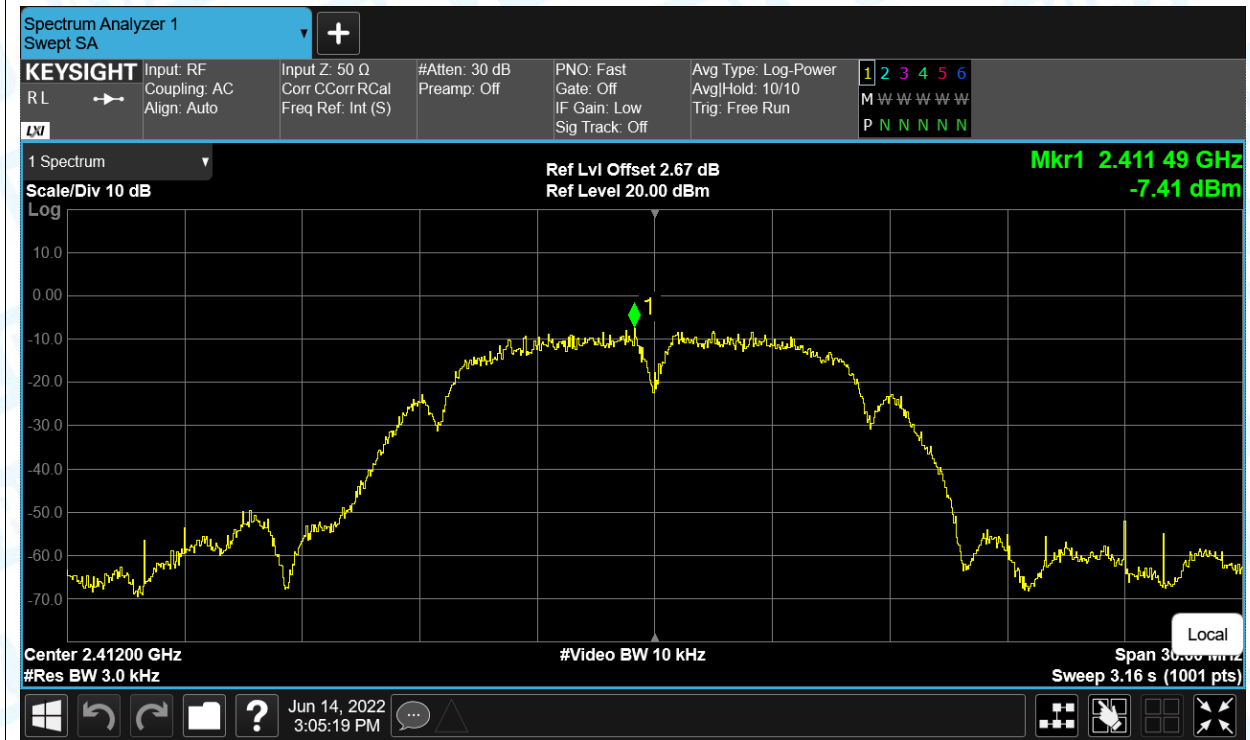


Maximum Power Spectral Density Level

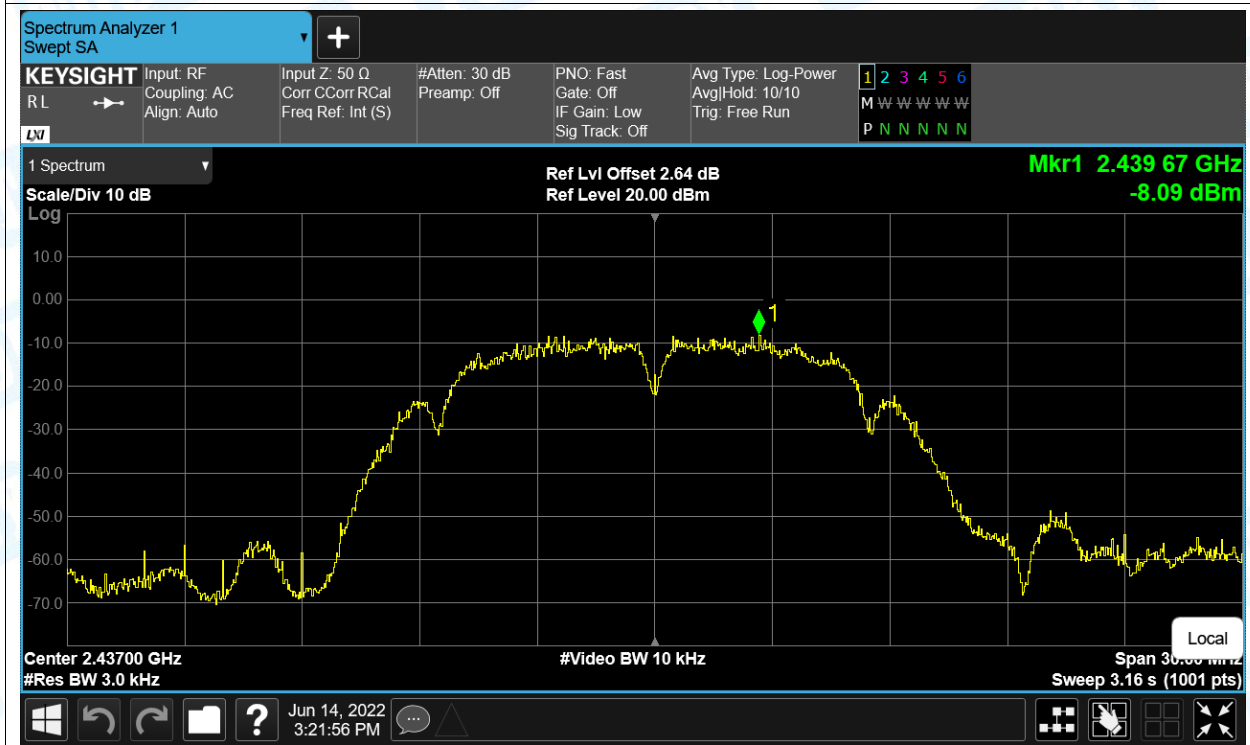
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-7.413	8	Pass
NVNT	b	2437	Ant1	-8.094	8	Pass
NVNT	b	2462	Ant1	-9.229	8	Pass
NVNT	g	2412	Ant1	-12.798	8	Pass
NVNT	g	2437	Ant1	-13.787	8	Pass
NVNT	g	2462	Ant1	-13.807	8	Pass
NVNT	n(HT20)	2412	Ant1	-11.715	8	Pass
NVNT	n(HT20)	2437	Ant1	-14.16	8	Pass
NVNT	n(HT20)	2462	Ant1	-14.069	8	Pass

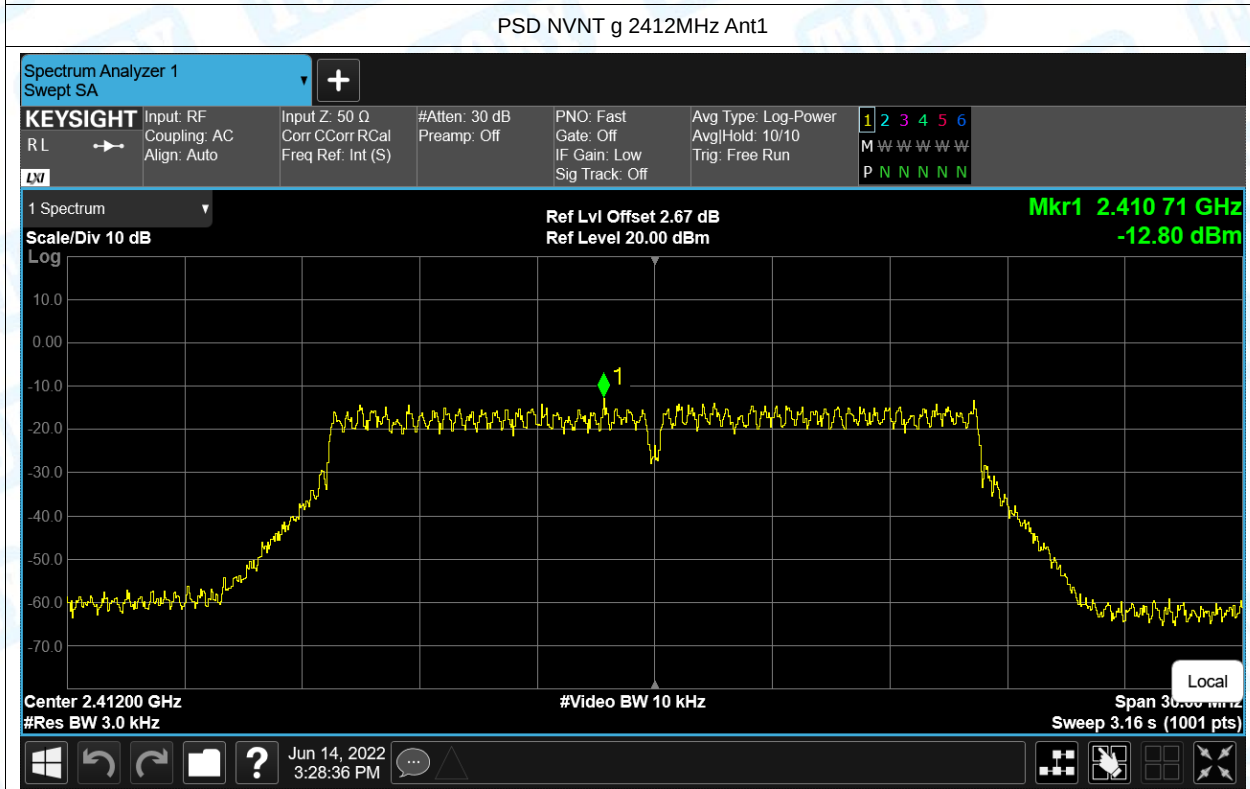
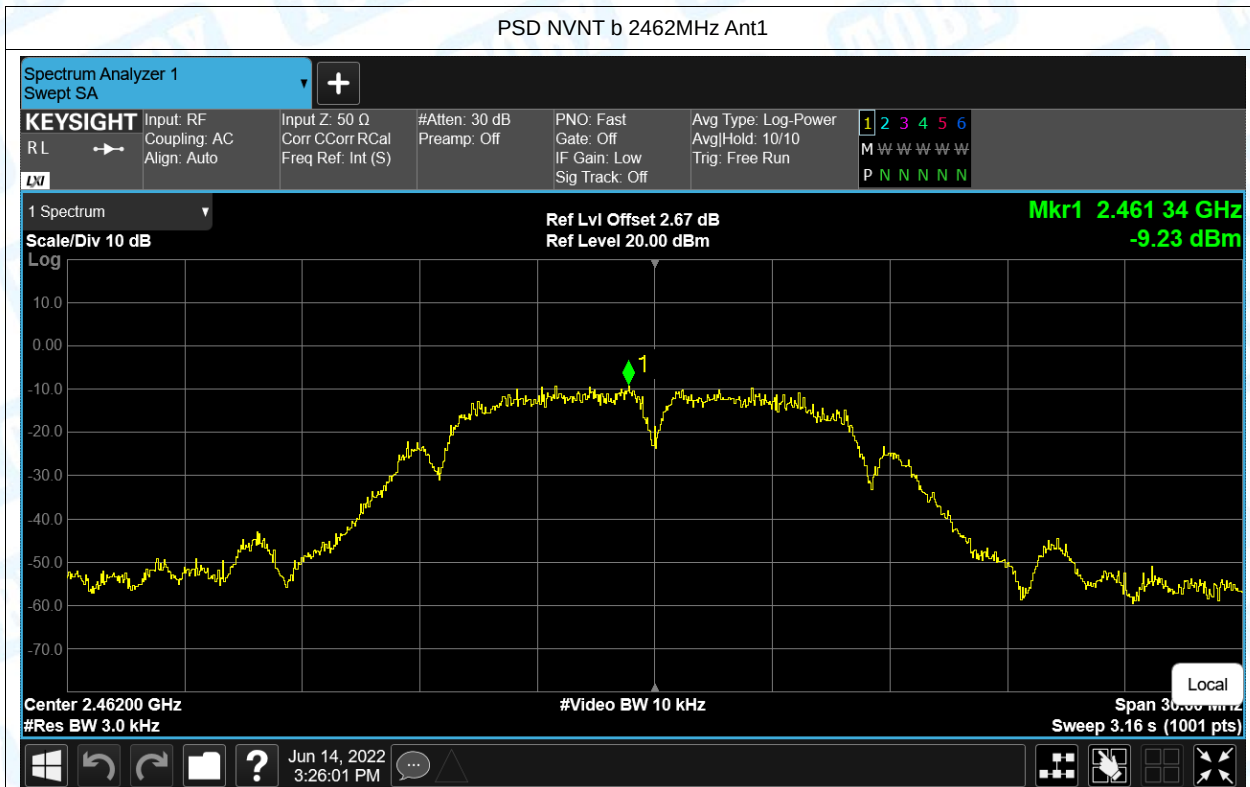
Test Graphs

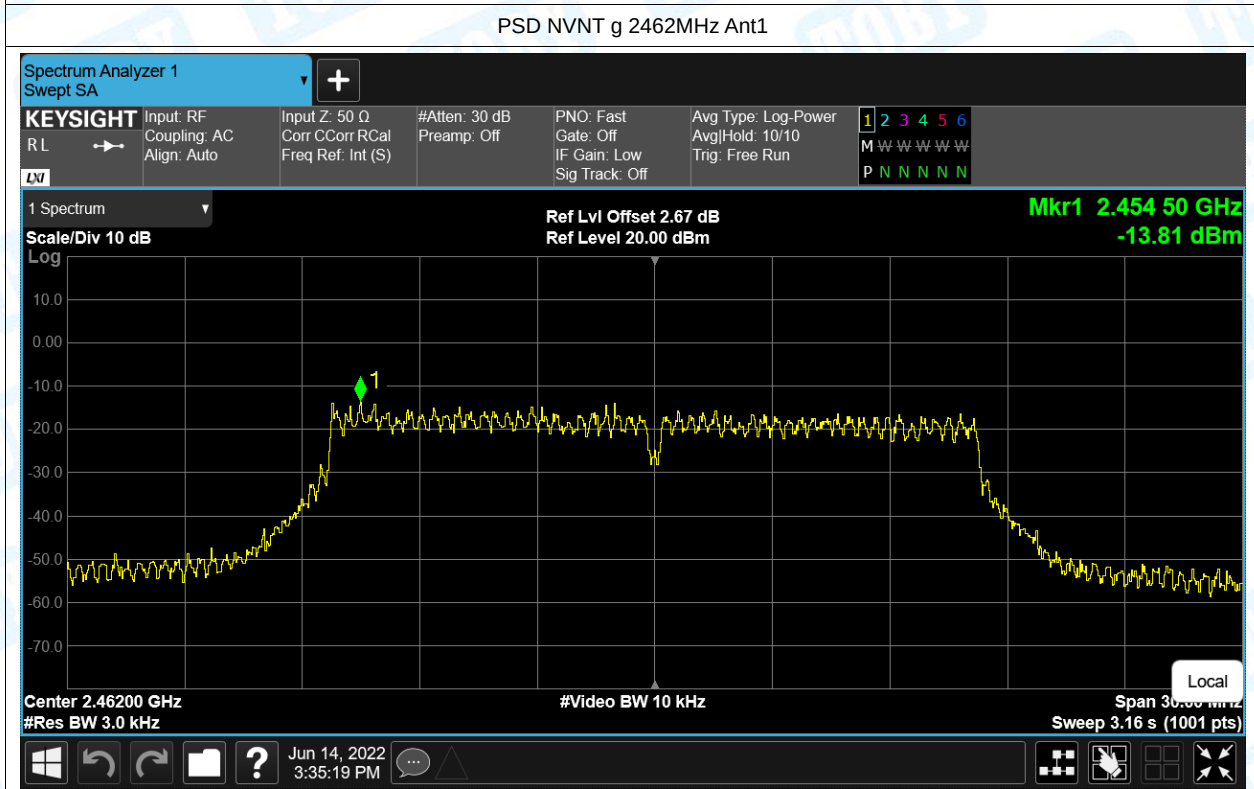
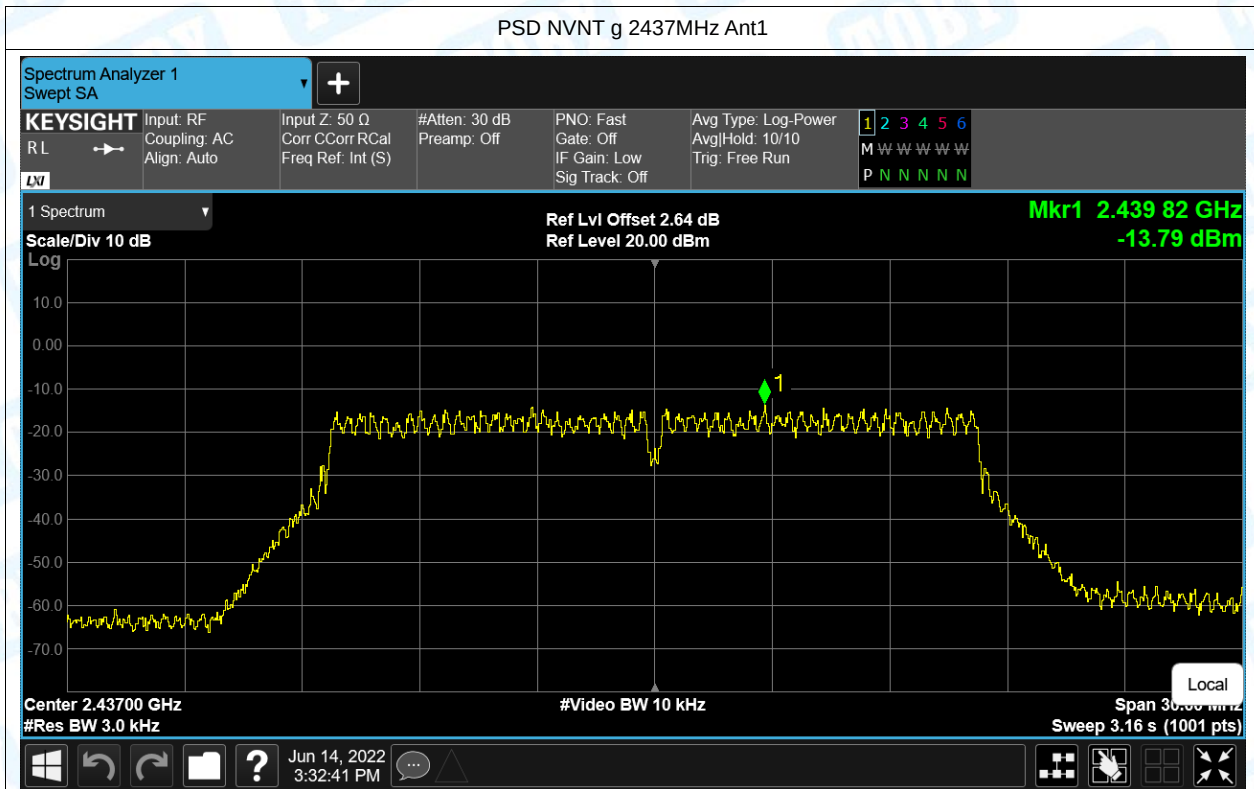
PSD NVNT b 2412MHz Ant1

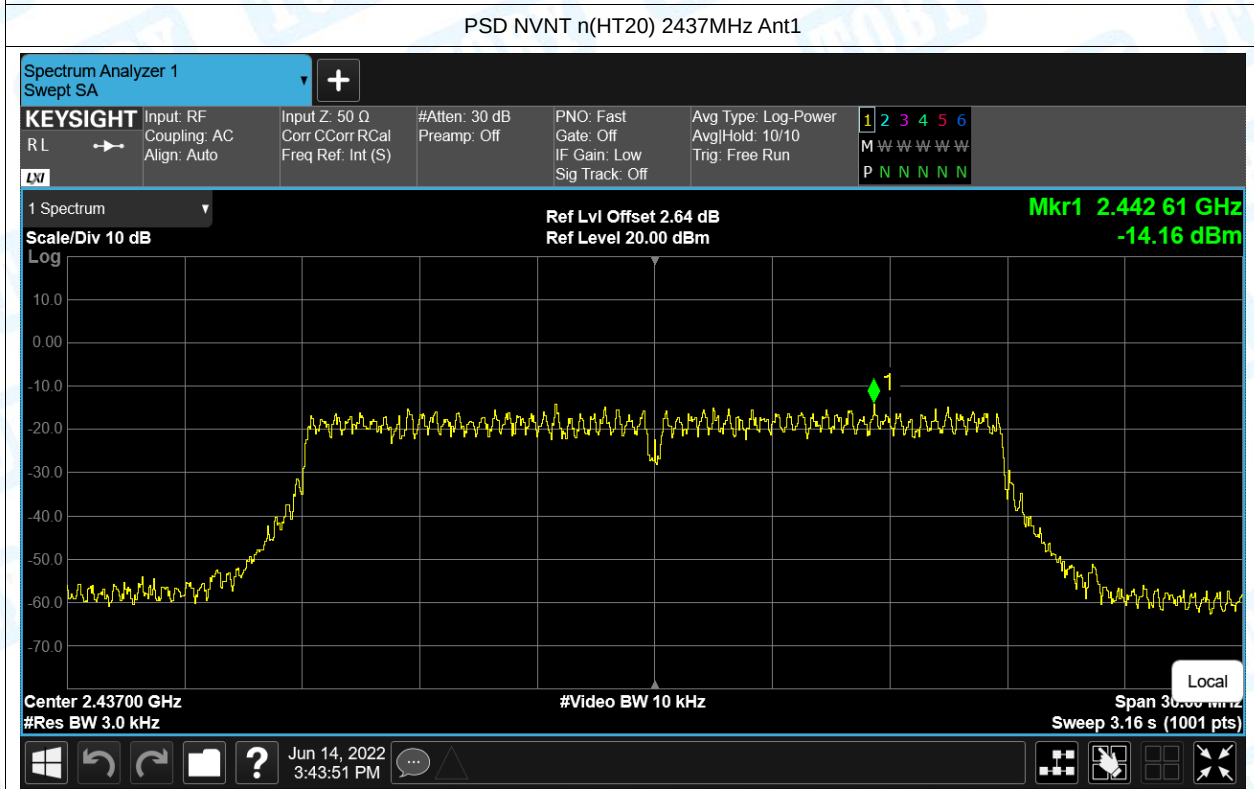
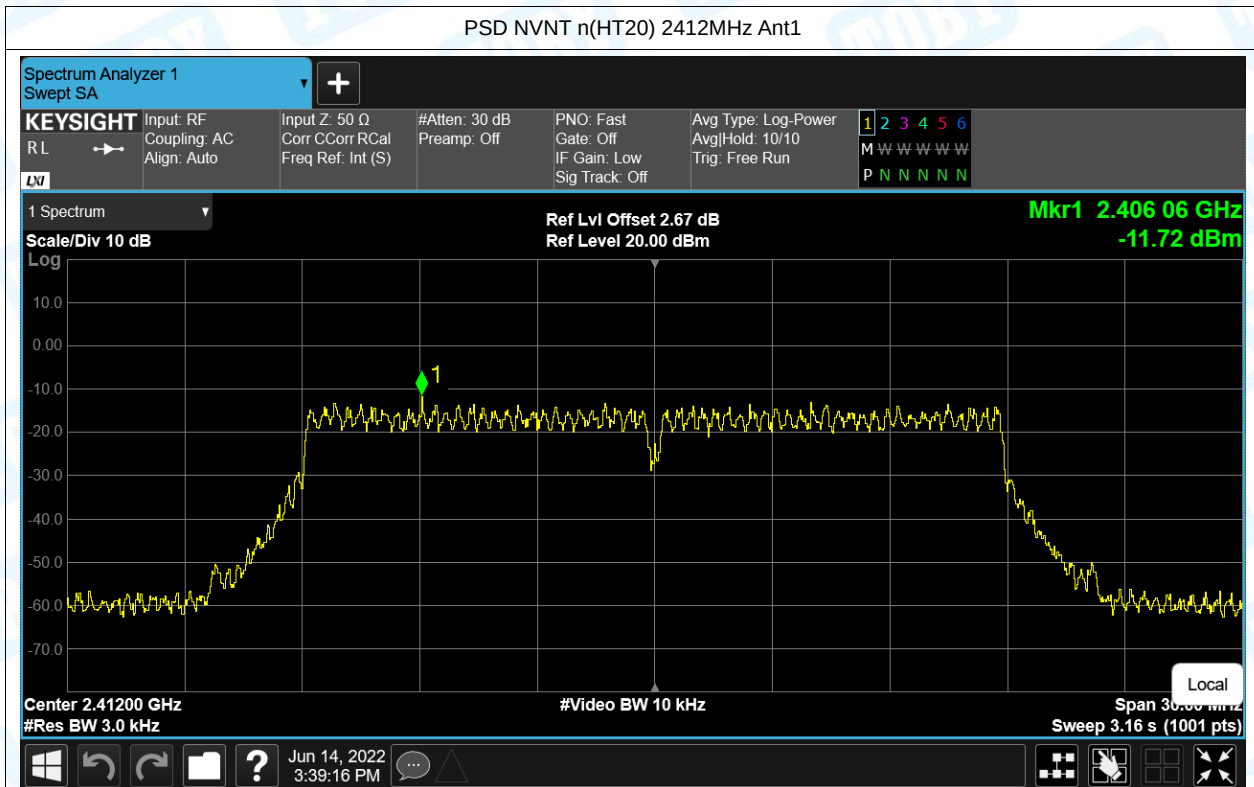


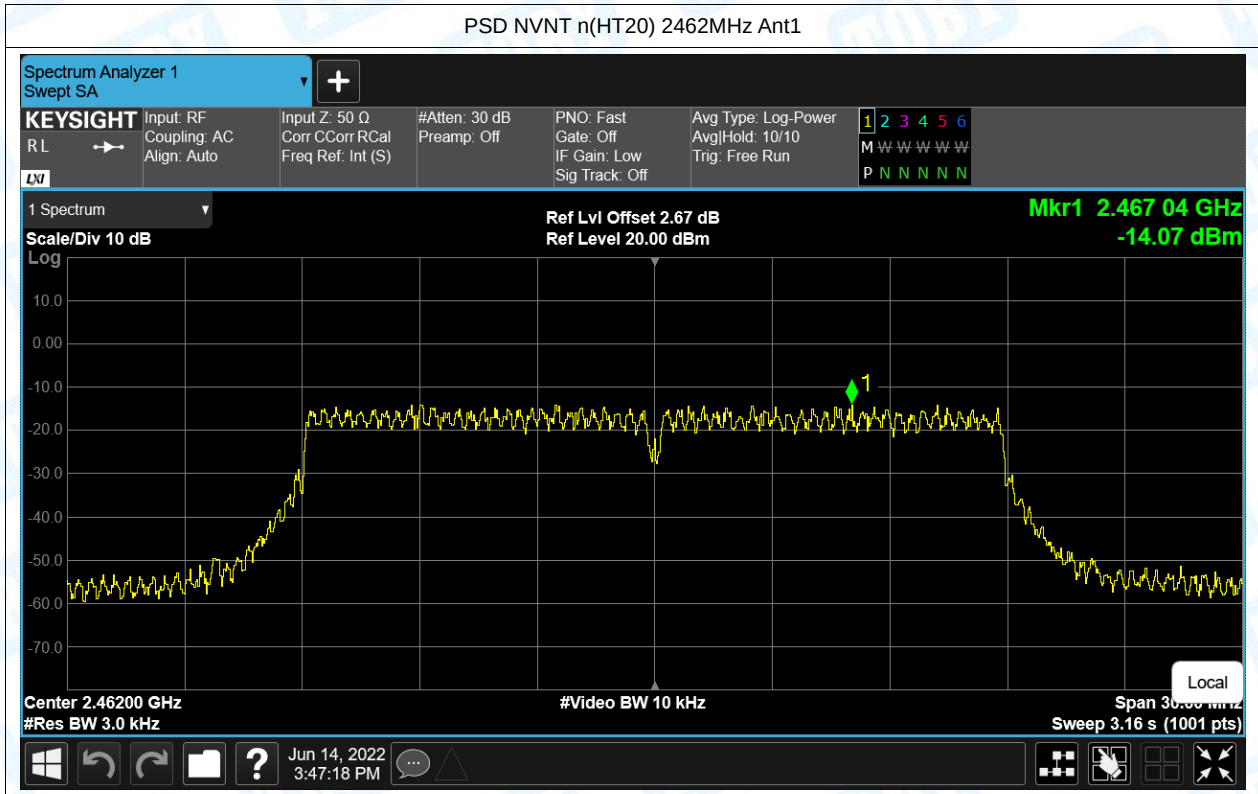
PSD NVNT b 2437MHz Ant1







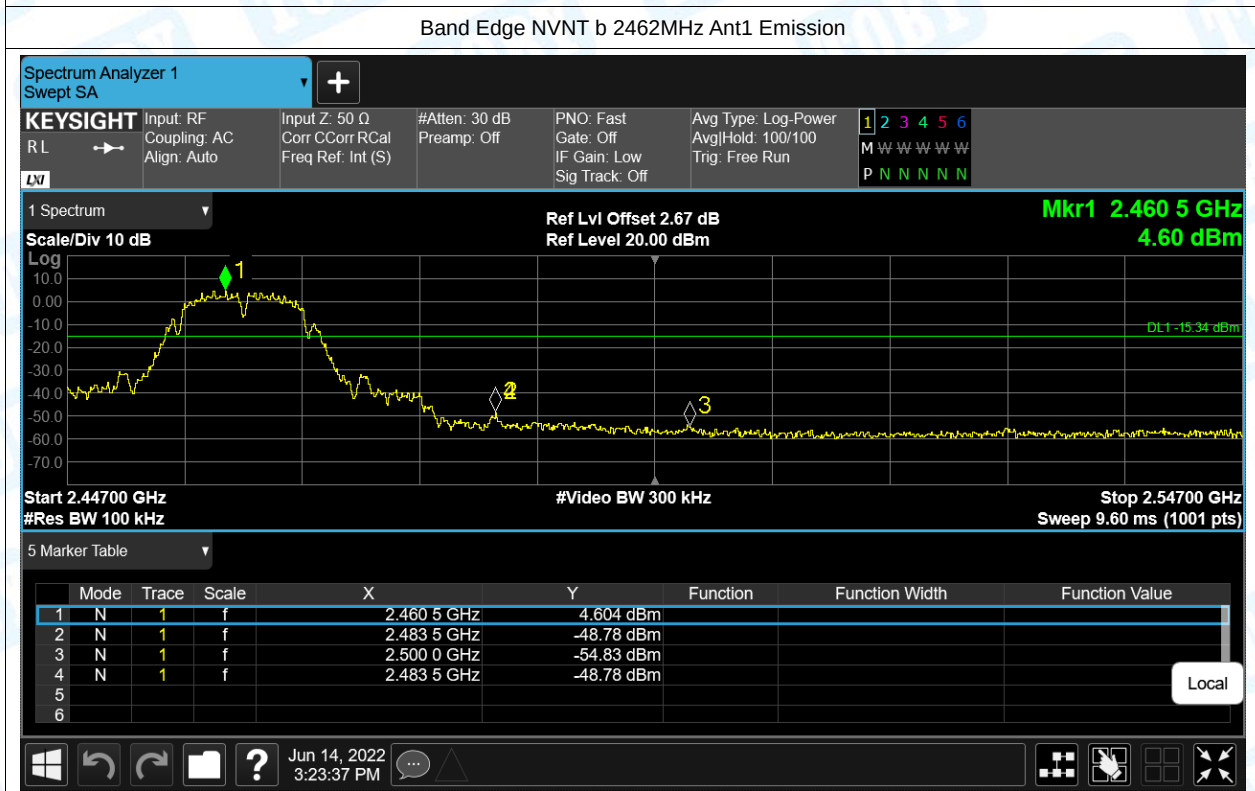
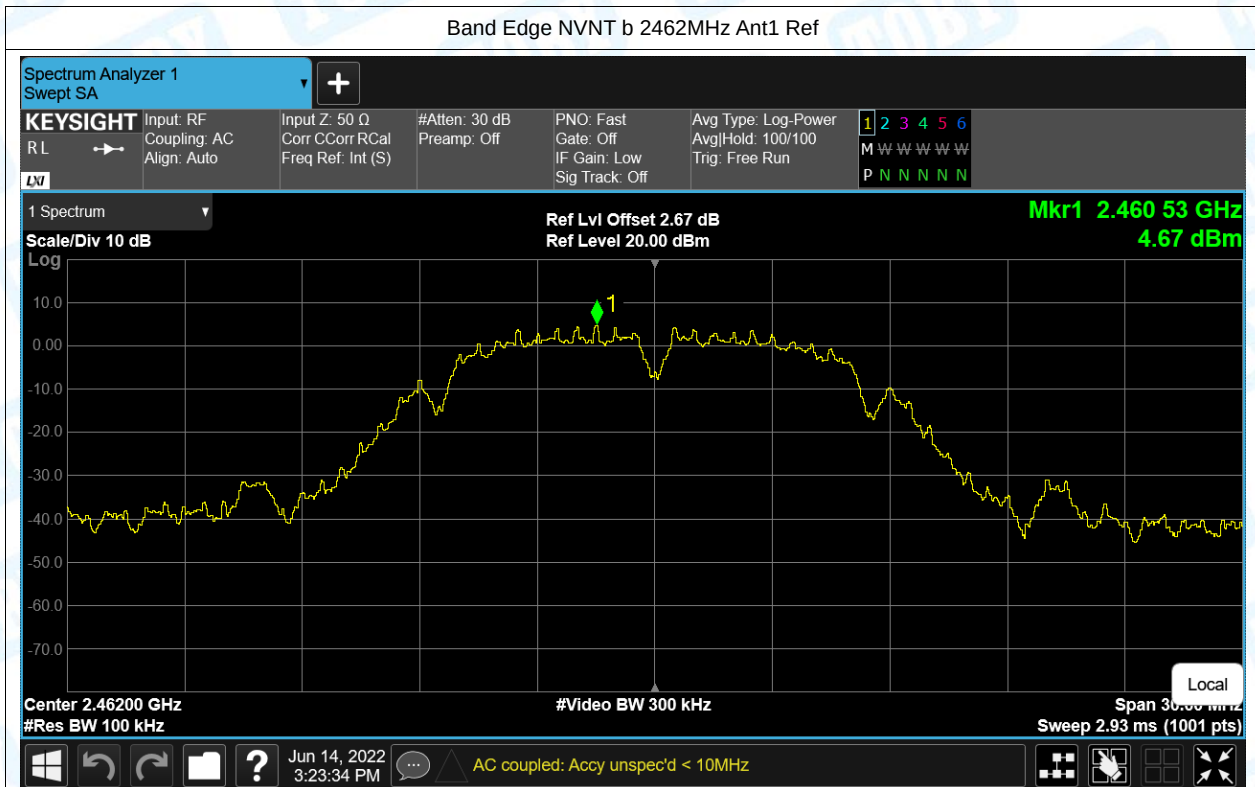


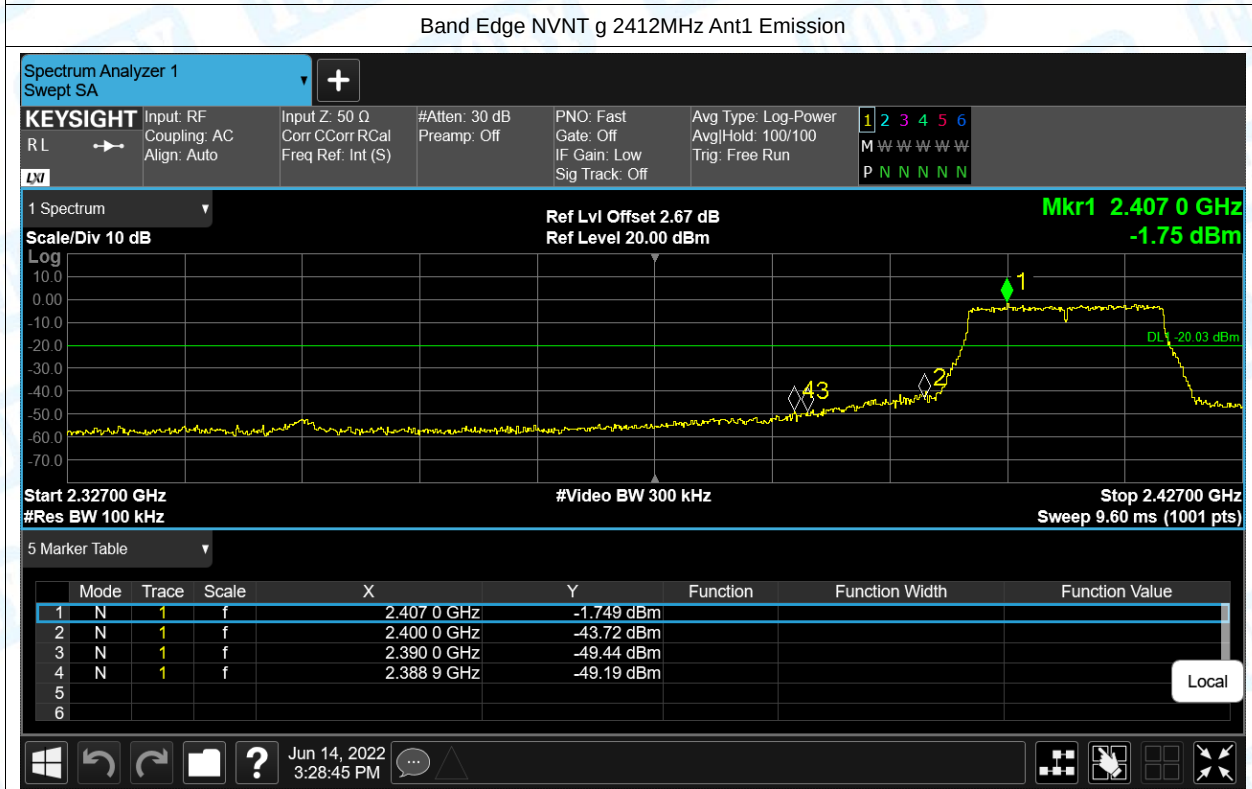
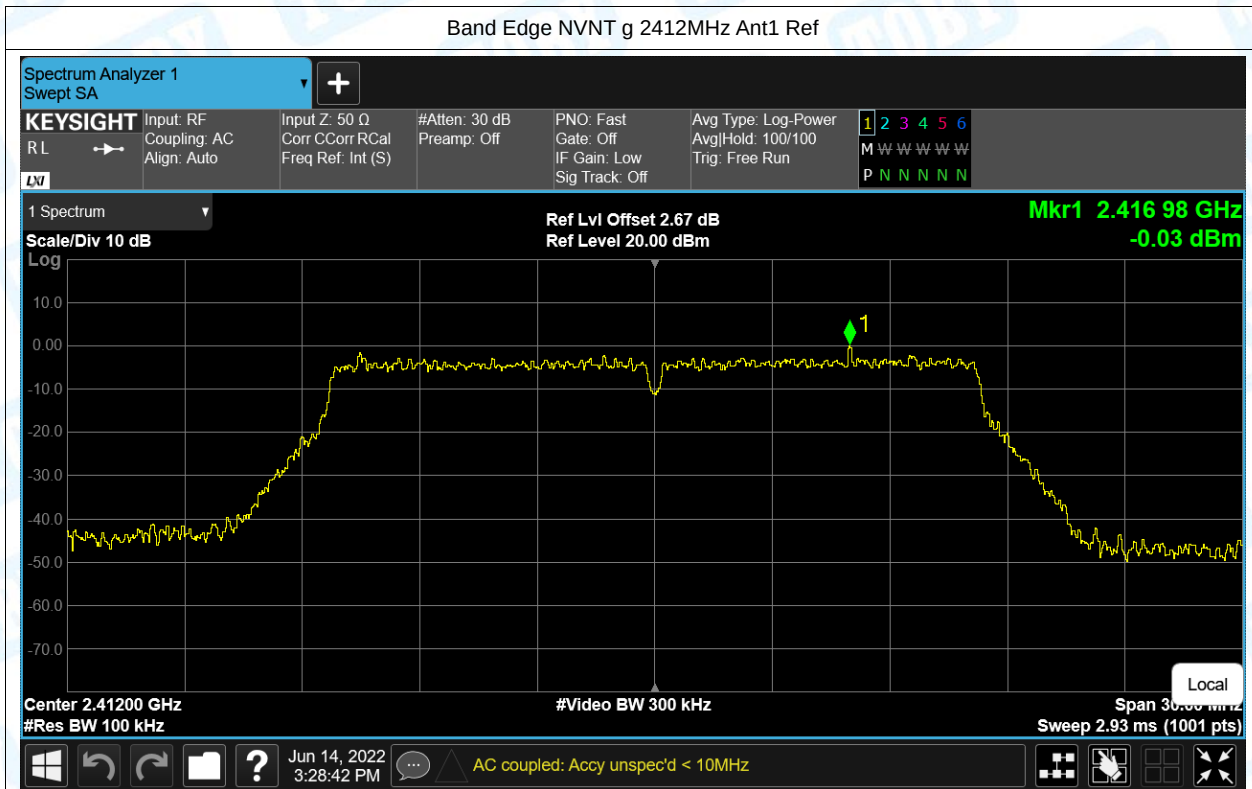


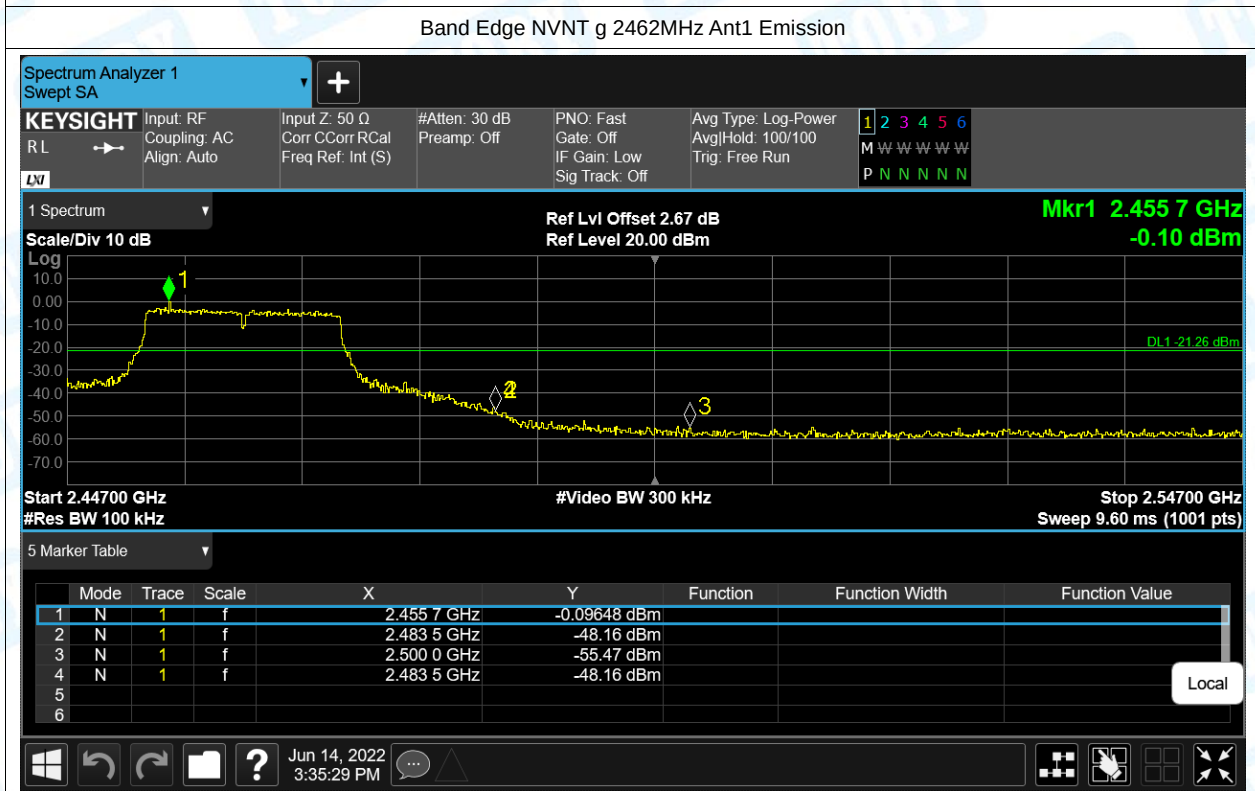
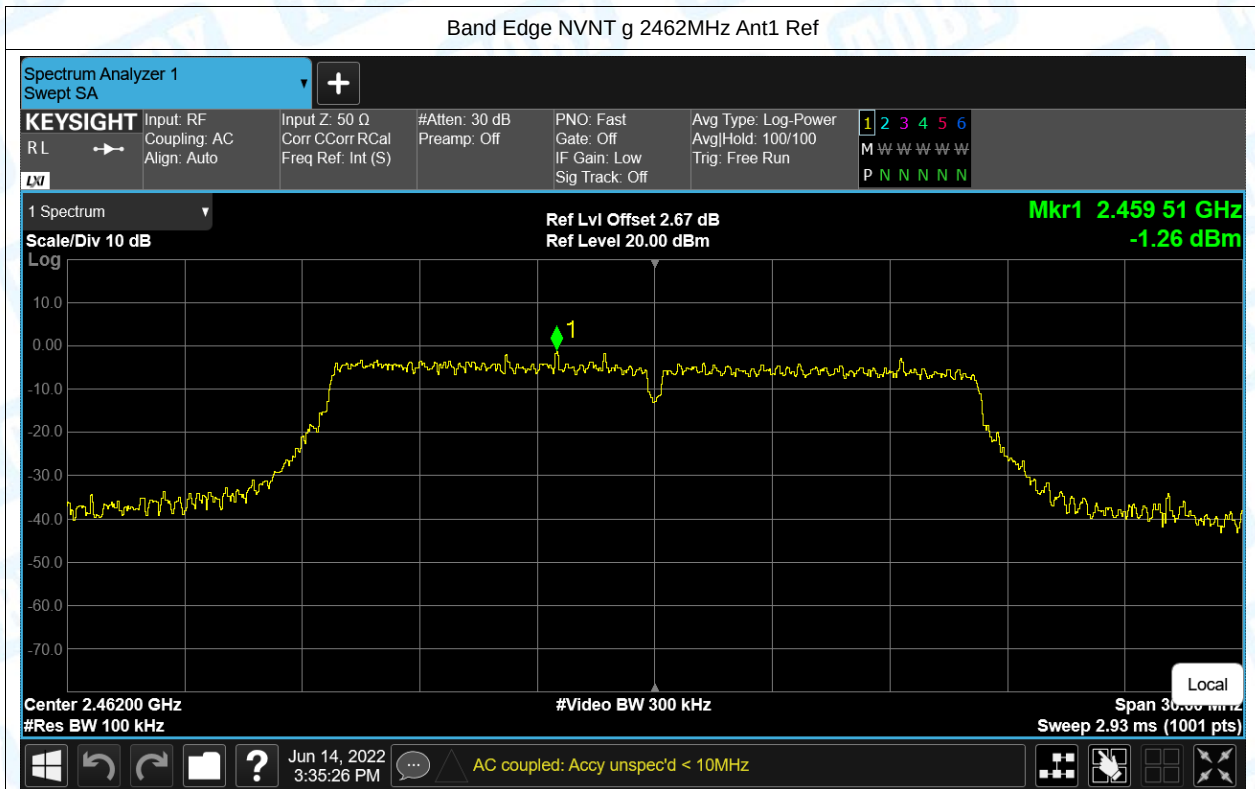
Band Edge

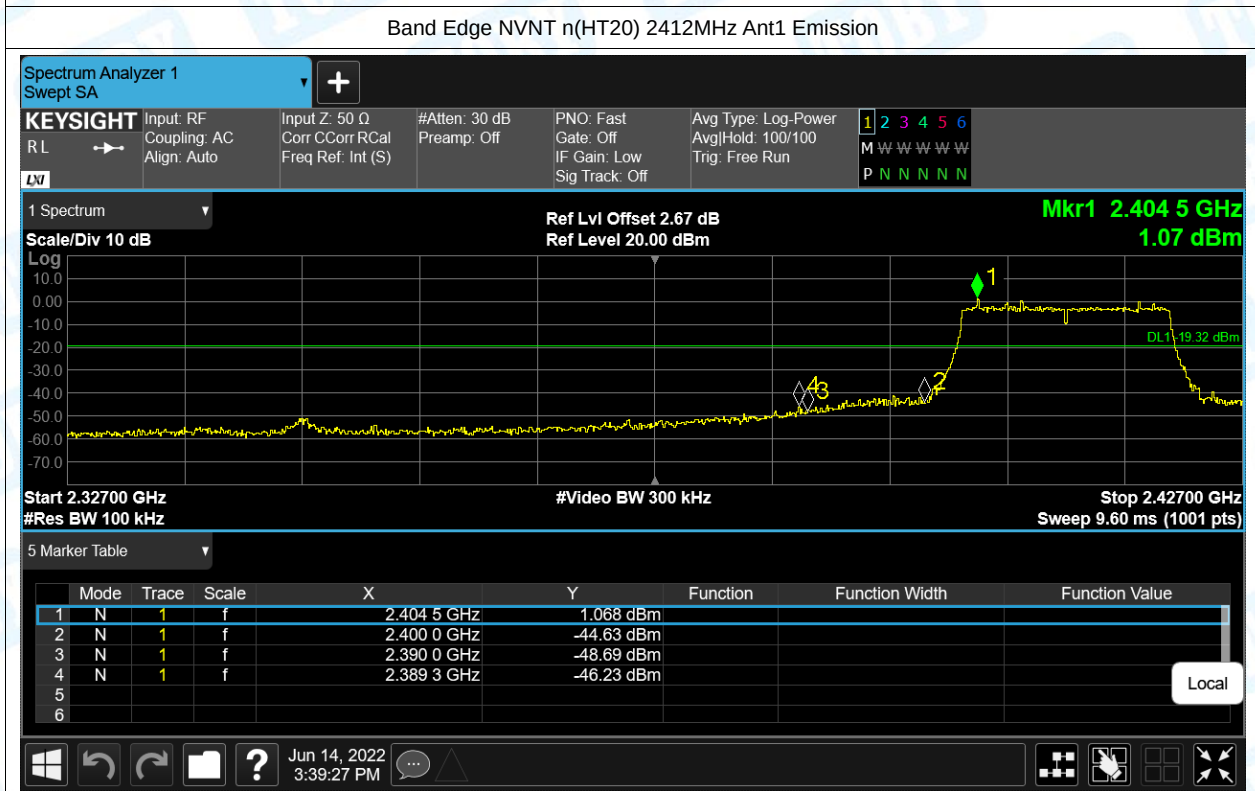
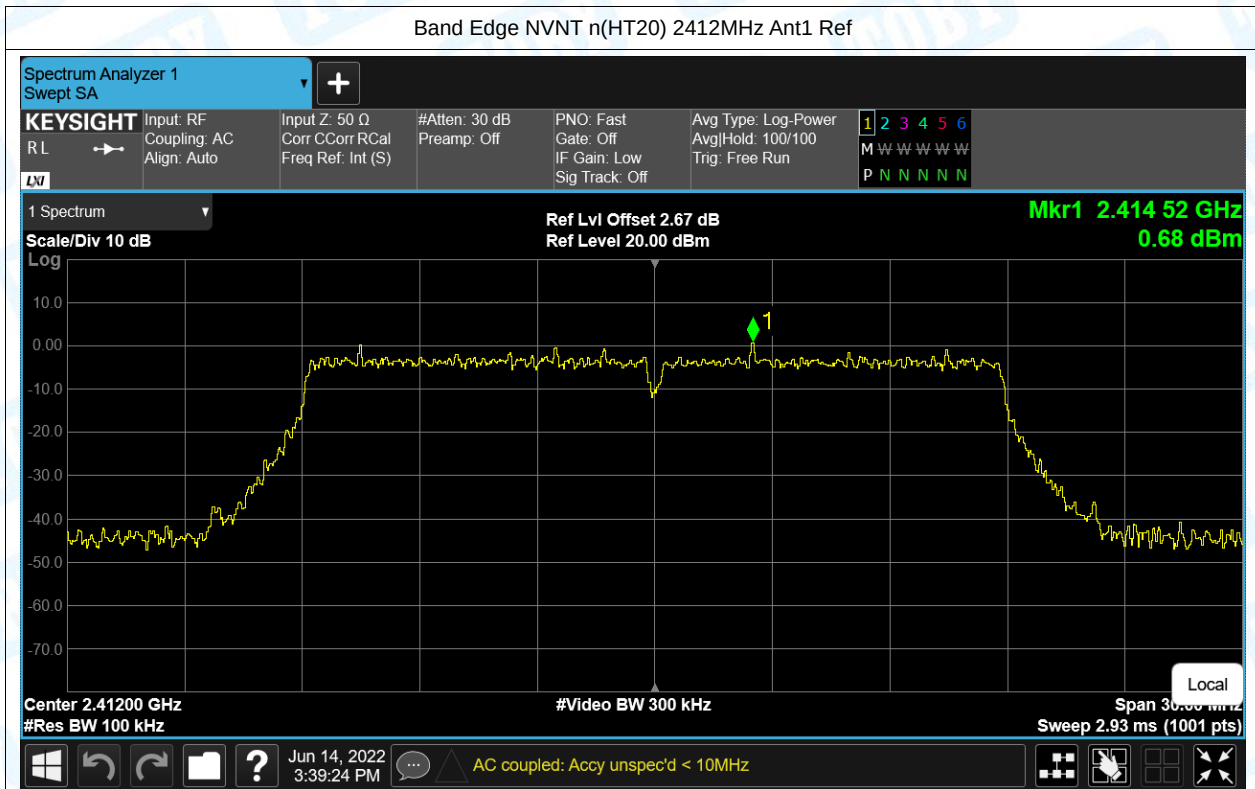
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-55.58	-20	Pass
NVNT	b	2462	Ant1	-53.45	-20	Pass
NVNT	g	2412	Ant1	-49.16	-20	Pass
NVNT	g	2462	Ant1	-46.9	-20	Pass
NVNT	n(HT20)	2412	Ant1	-46.91	-20	Pass
NVNT	n(HT20)	2462	Ant1	-46.63	-20	Pass

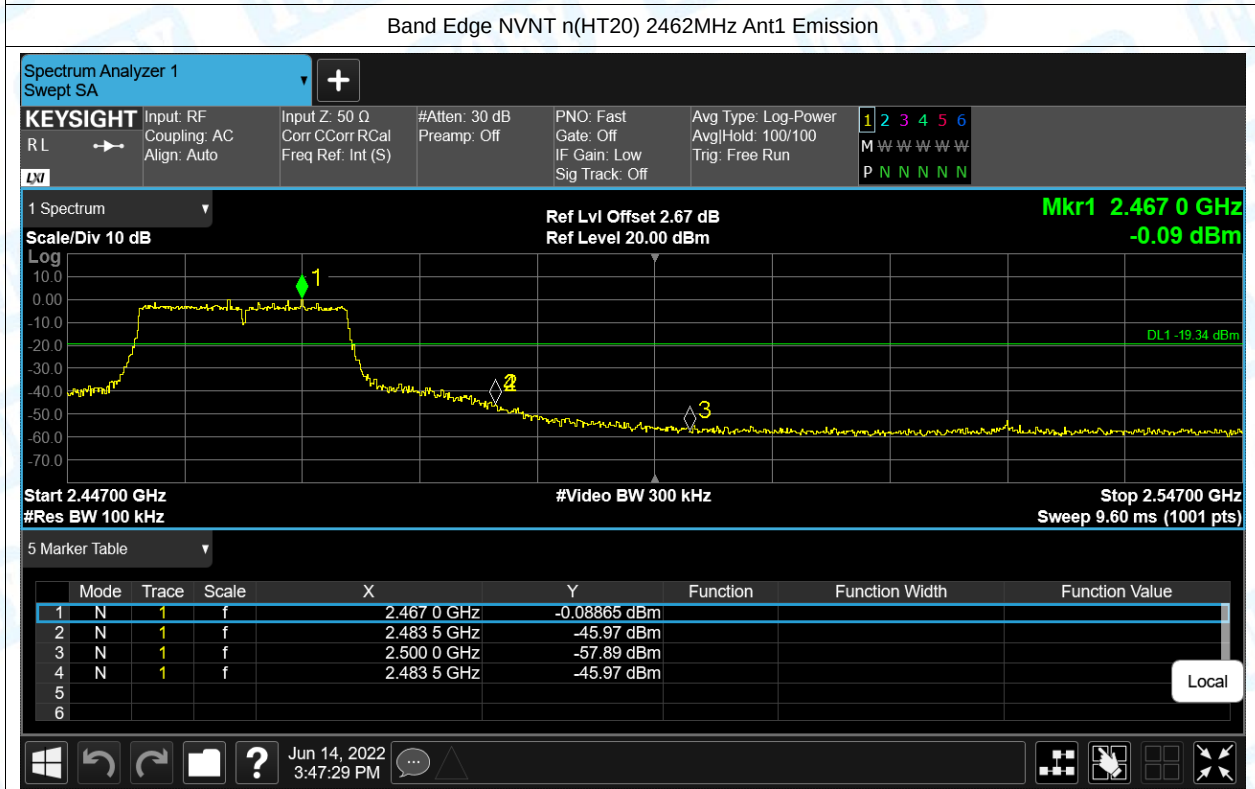
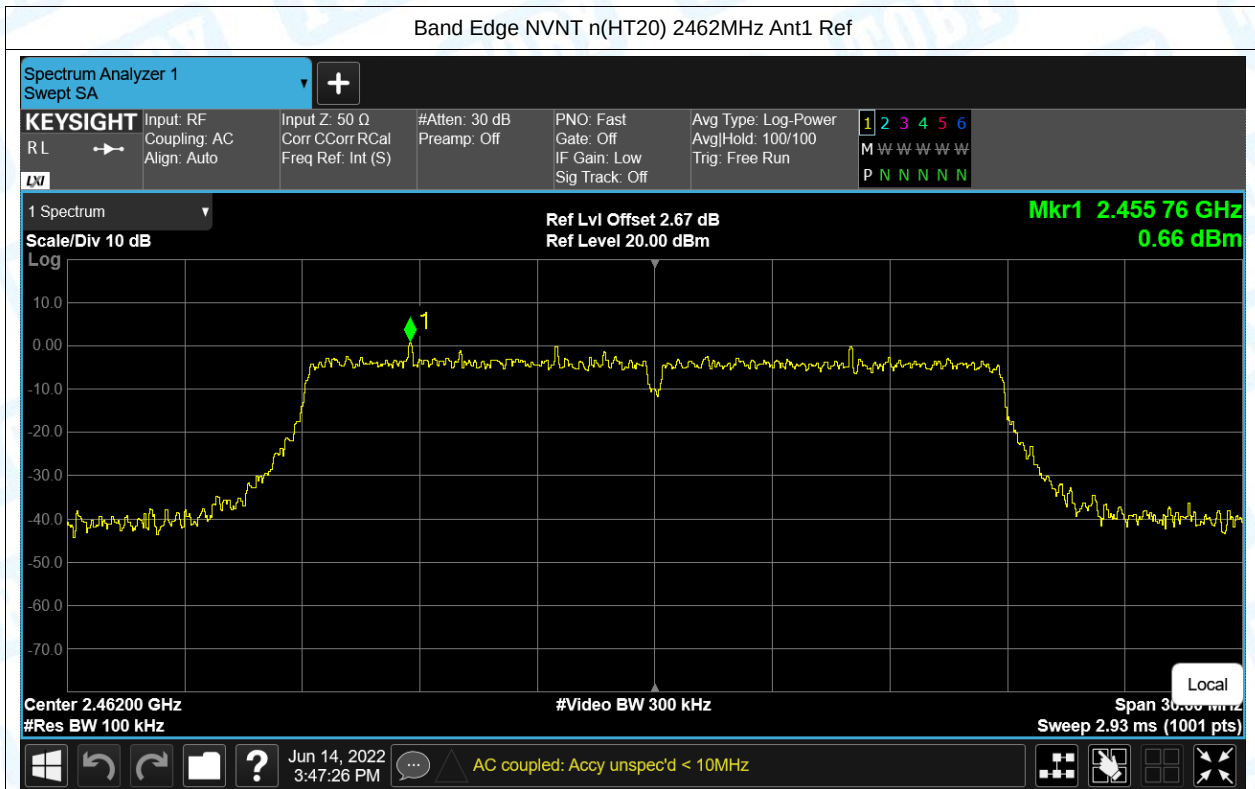






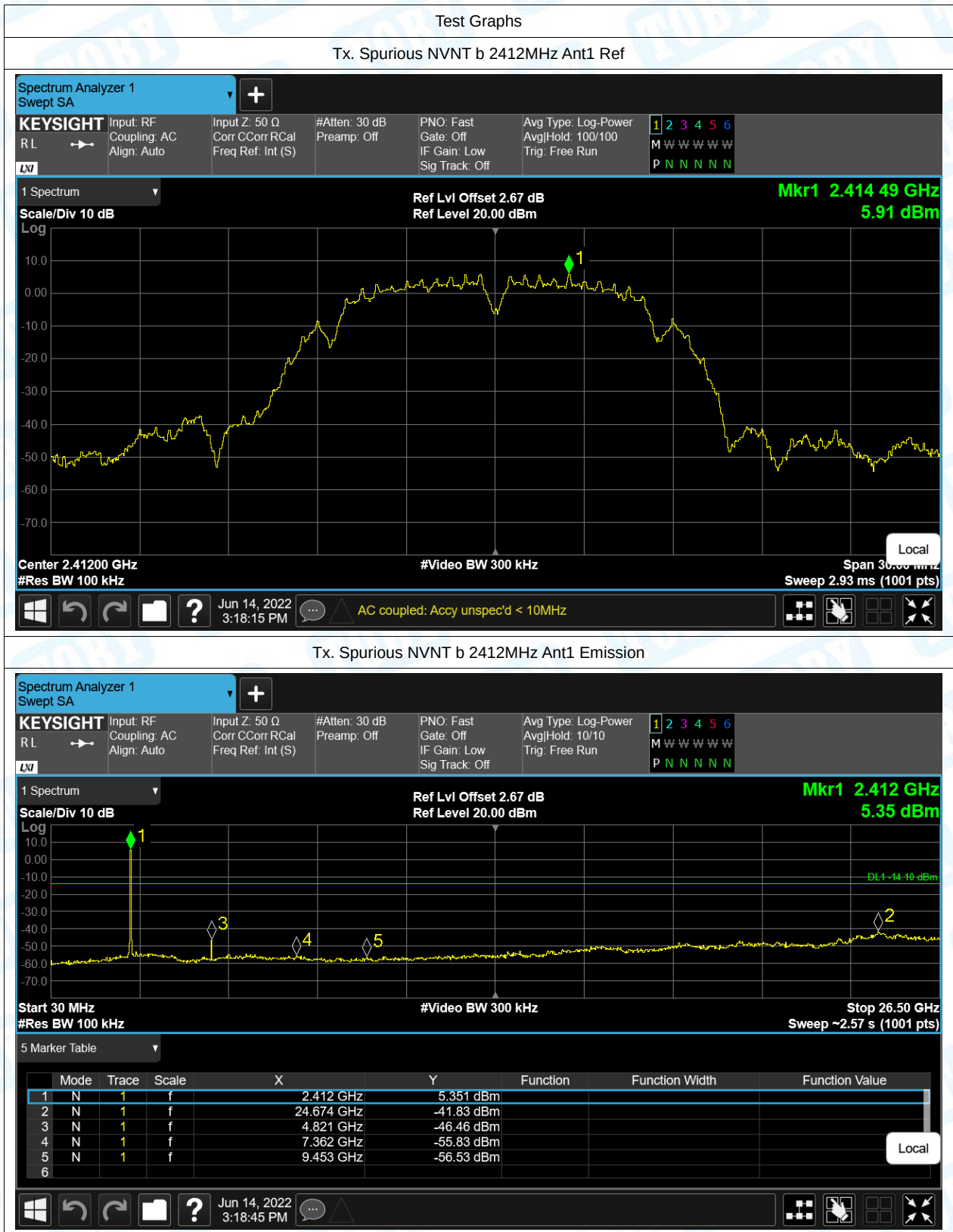


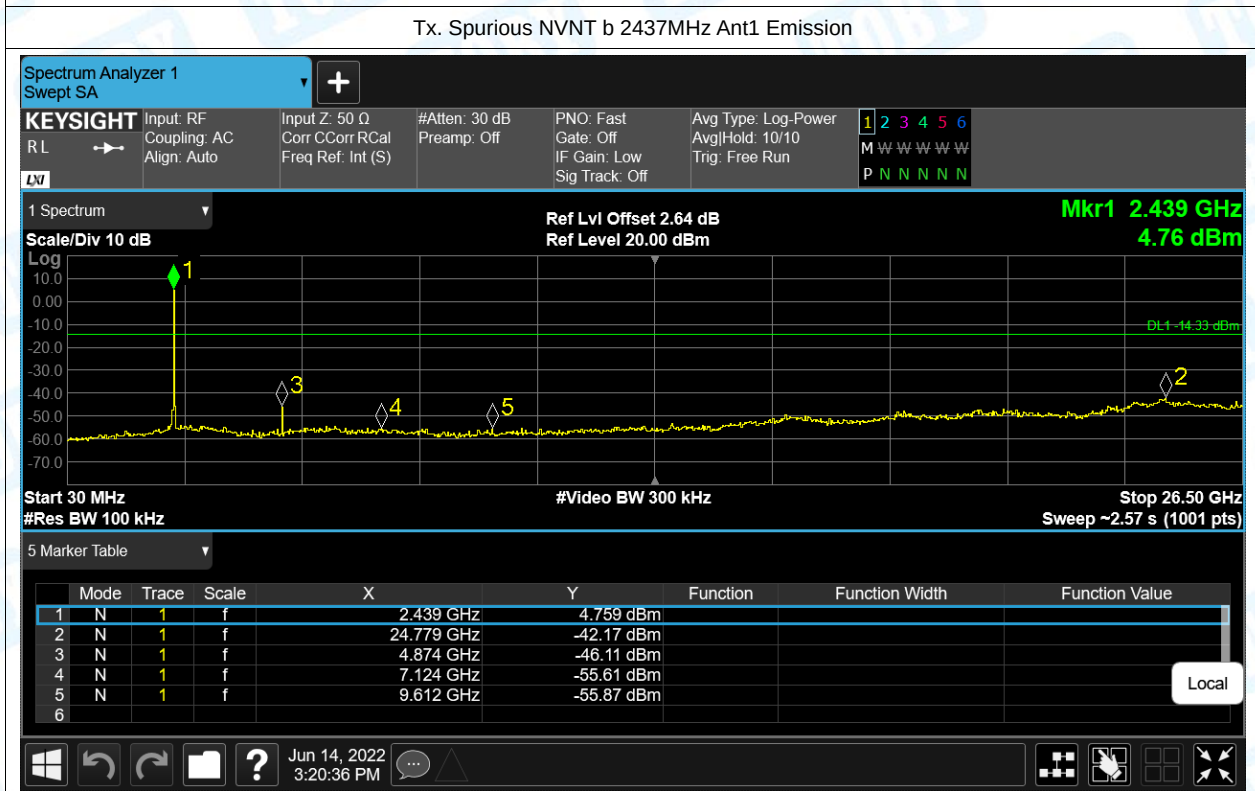
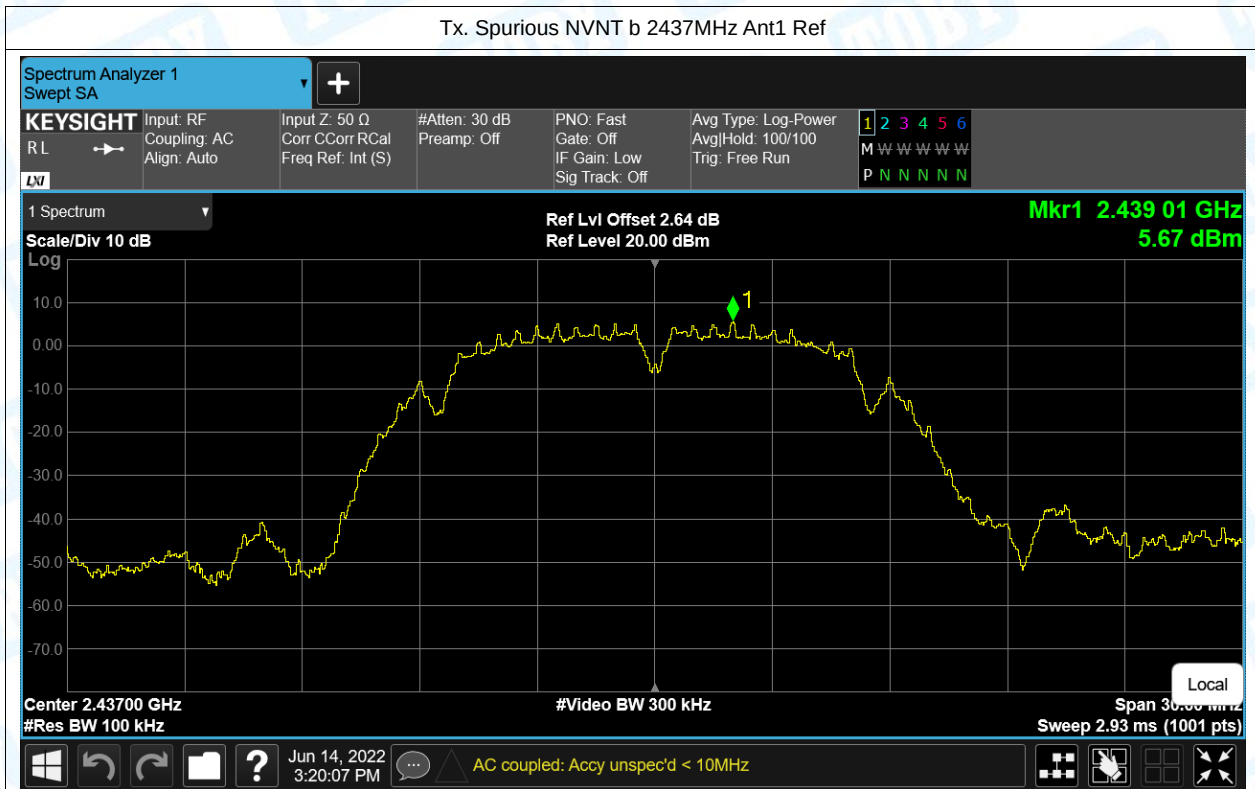


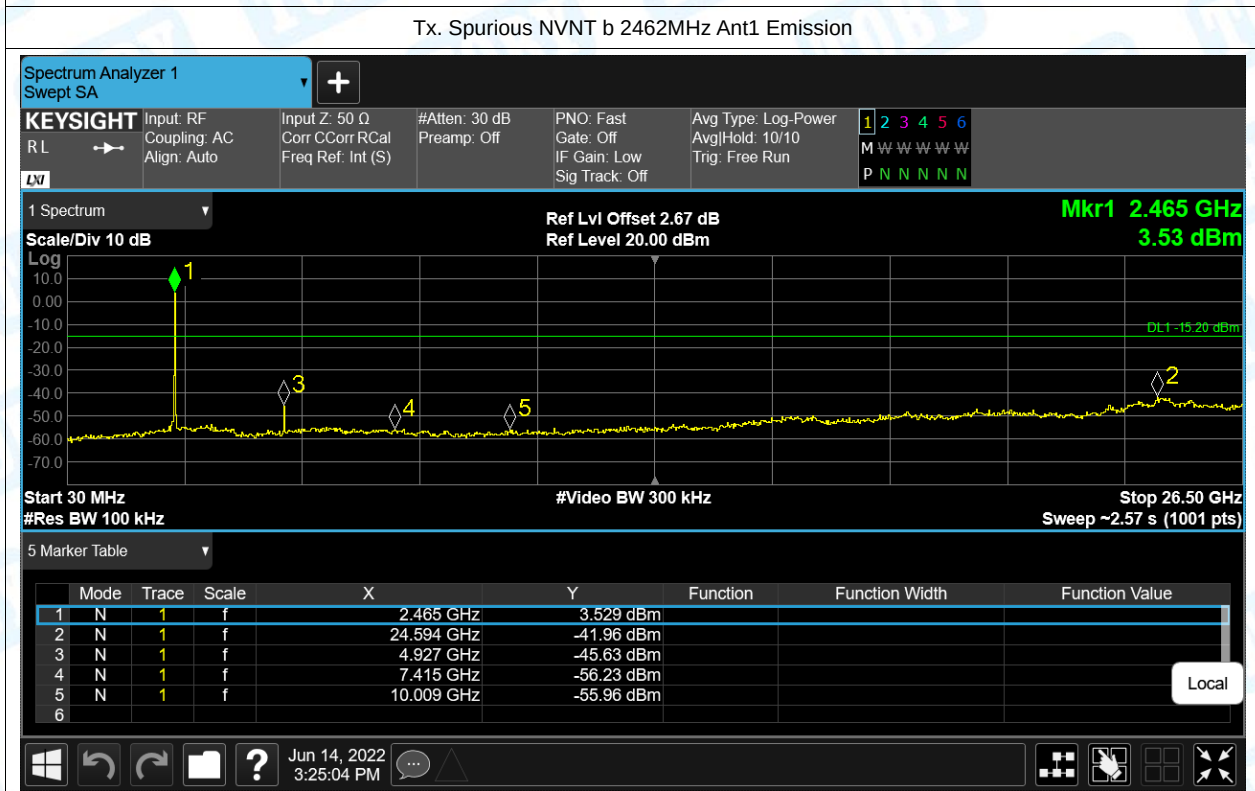
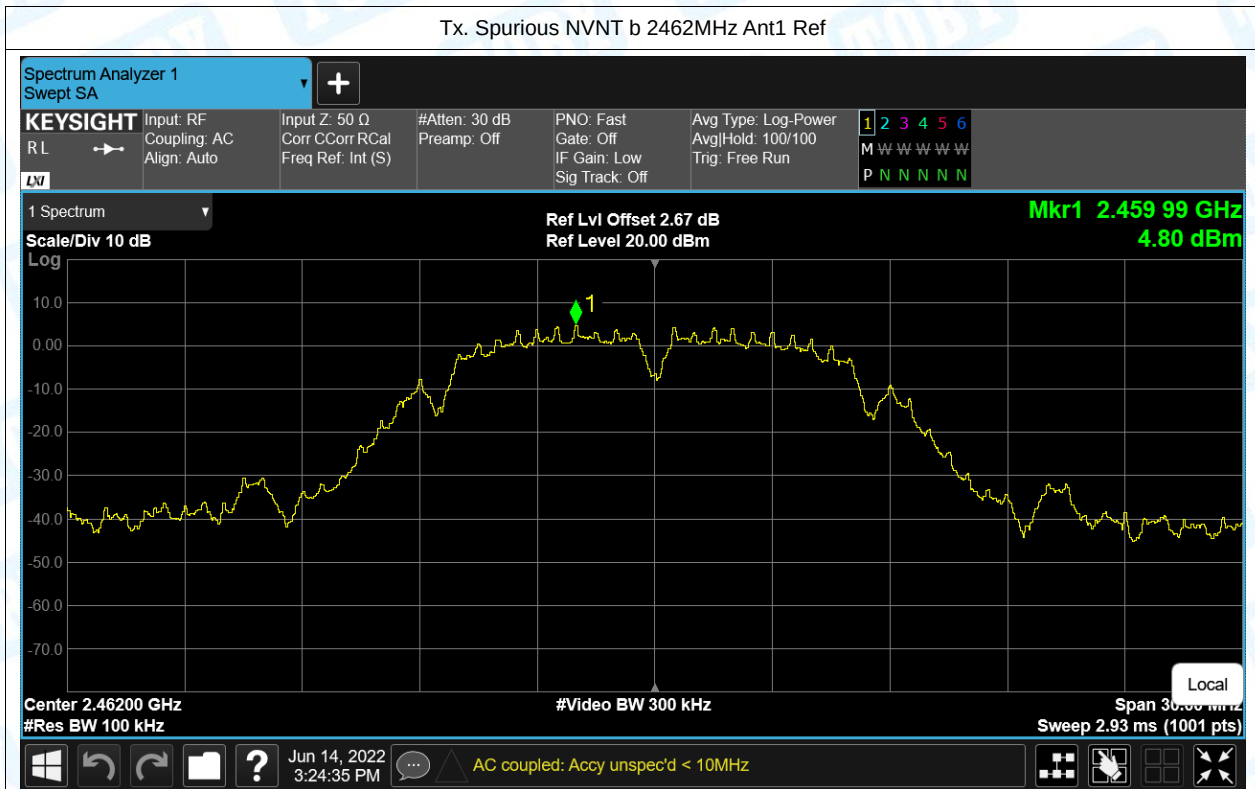


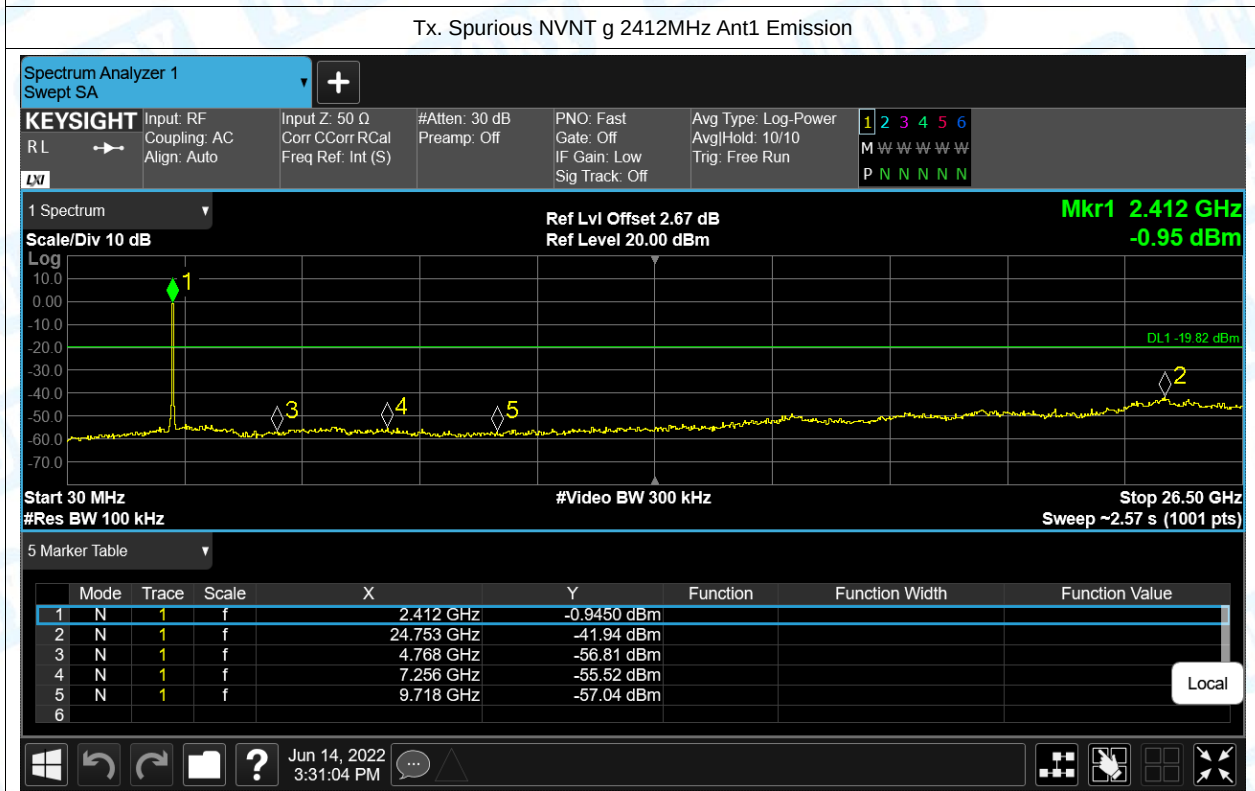
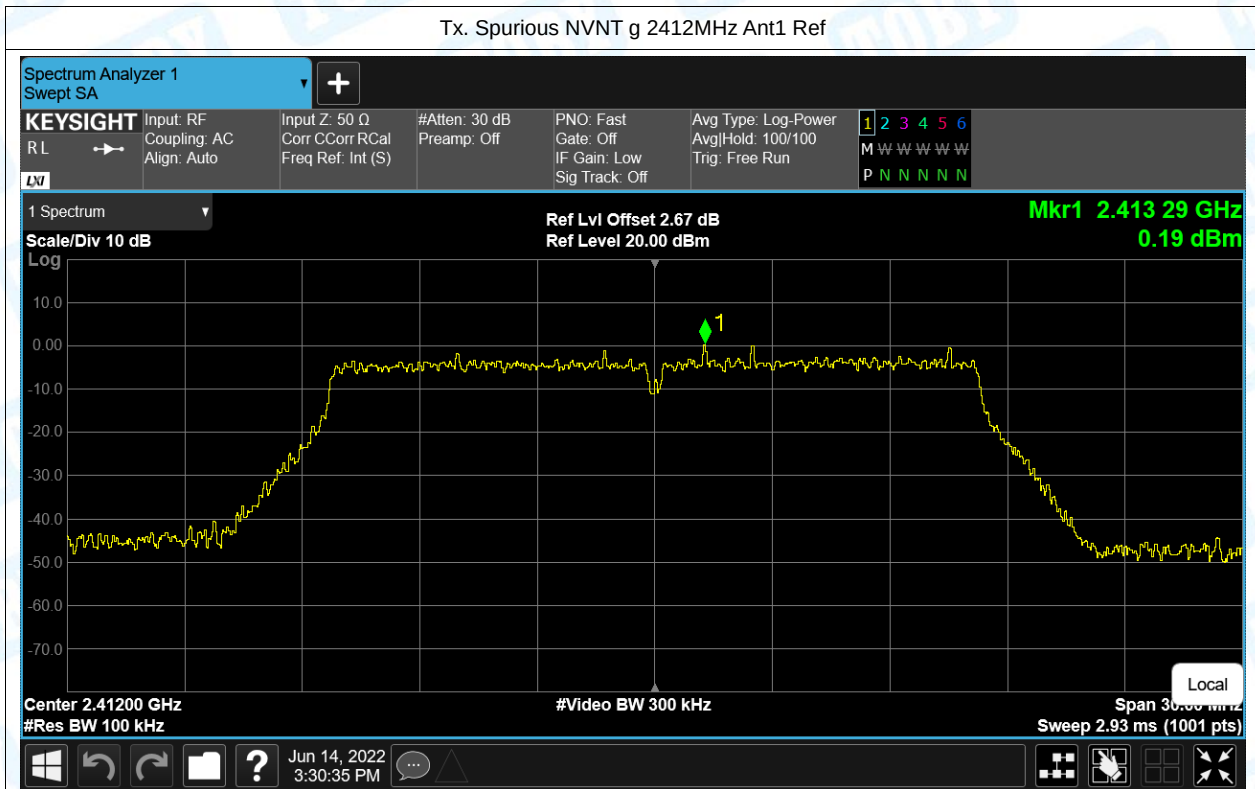
Conducted RF Spurious Emission

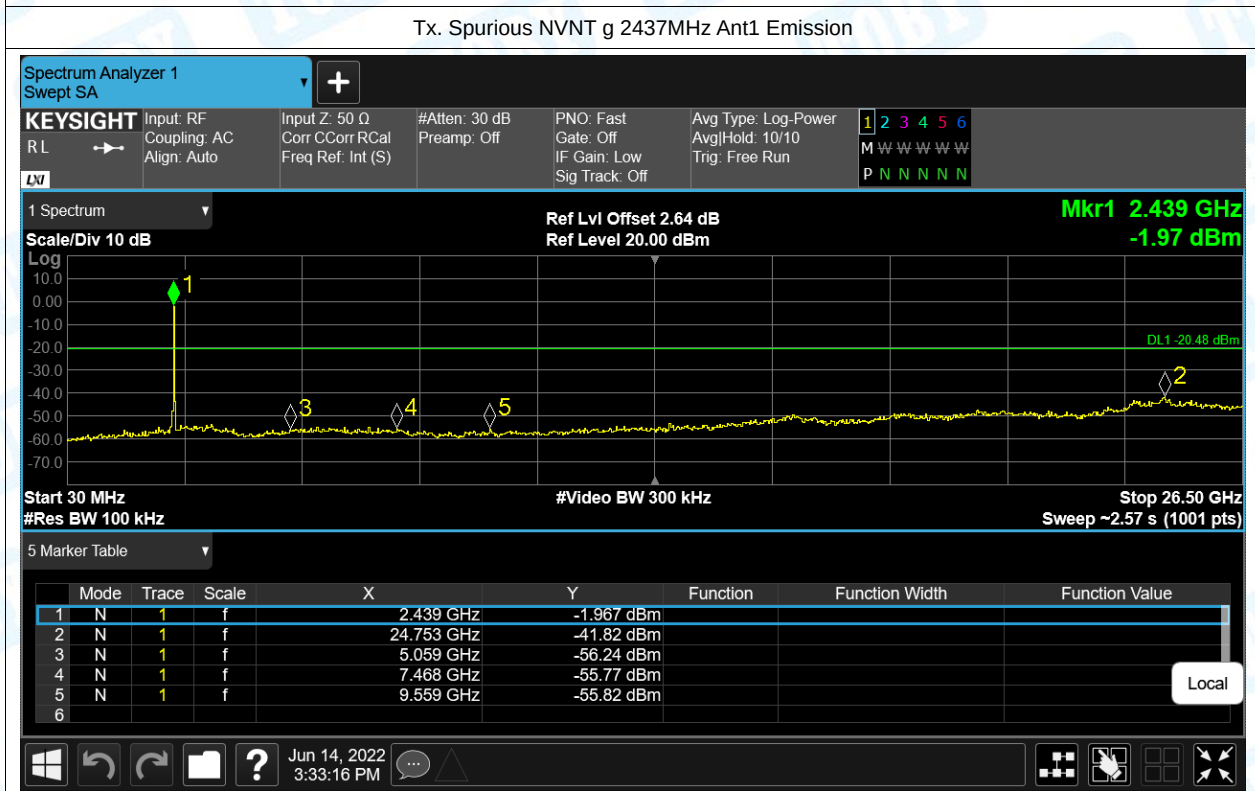
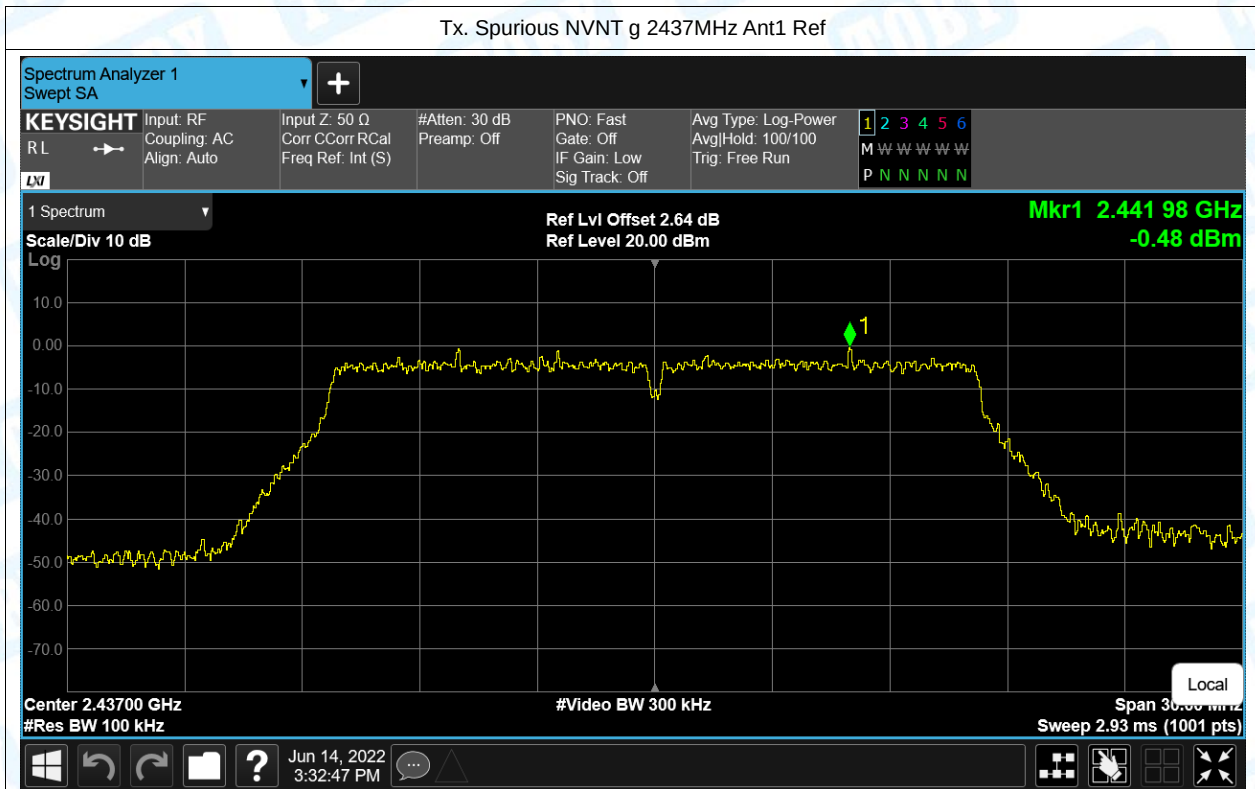
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.74	-20	Pass
NVNT	b	2437	Ant1	-47.84	-20	Pass
NVNT	b	2462	Ant1	-46.76	-20	Pass
NVNT	g	2412	Ant1	-42.13	-20	Pass
NVNT	g	2437	Ant1	-41.34	-20	Pass
NVNT	g	2462	Ant1	-41.4	-20	Pass
NVNT	n(HT20)	2412	Ant1	-42.85	-20	Pass
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NVNT	n(HT20)	2462	Ant1	-41.76	-20	Pass

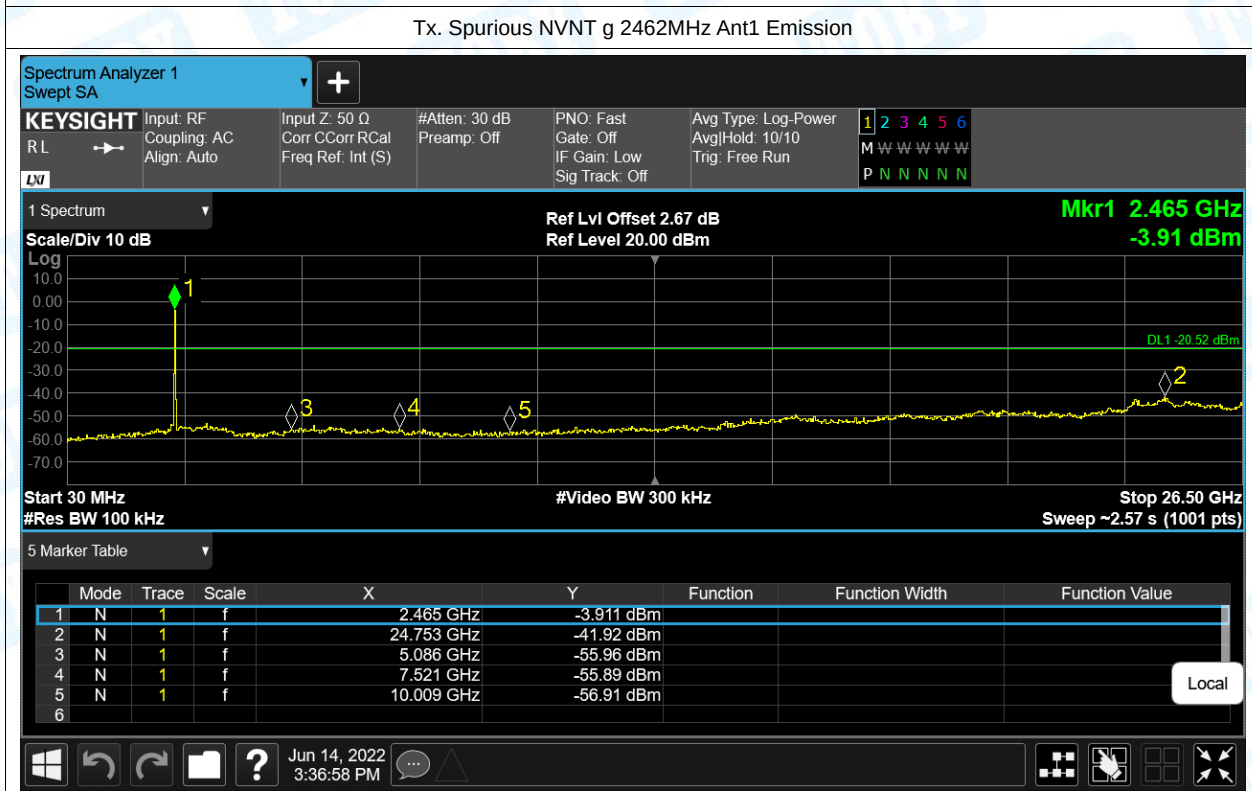
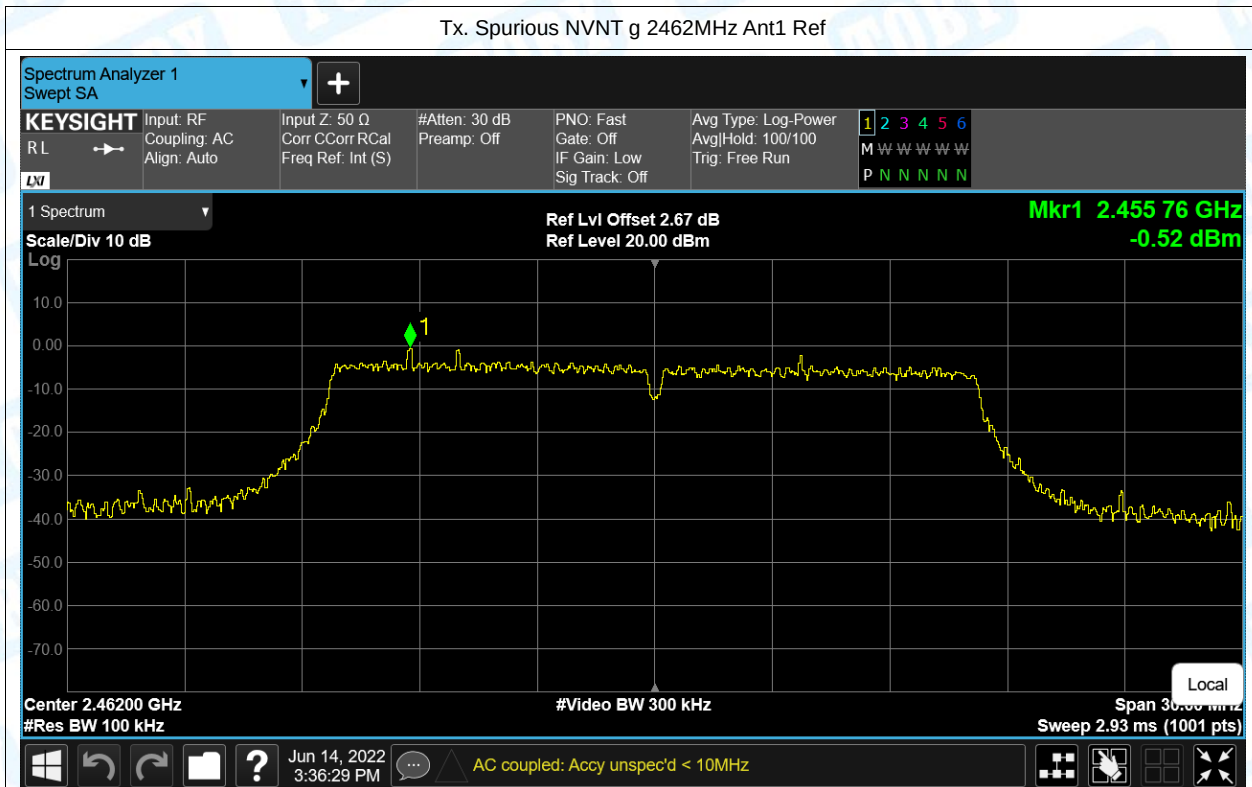


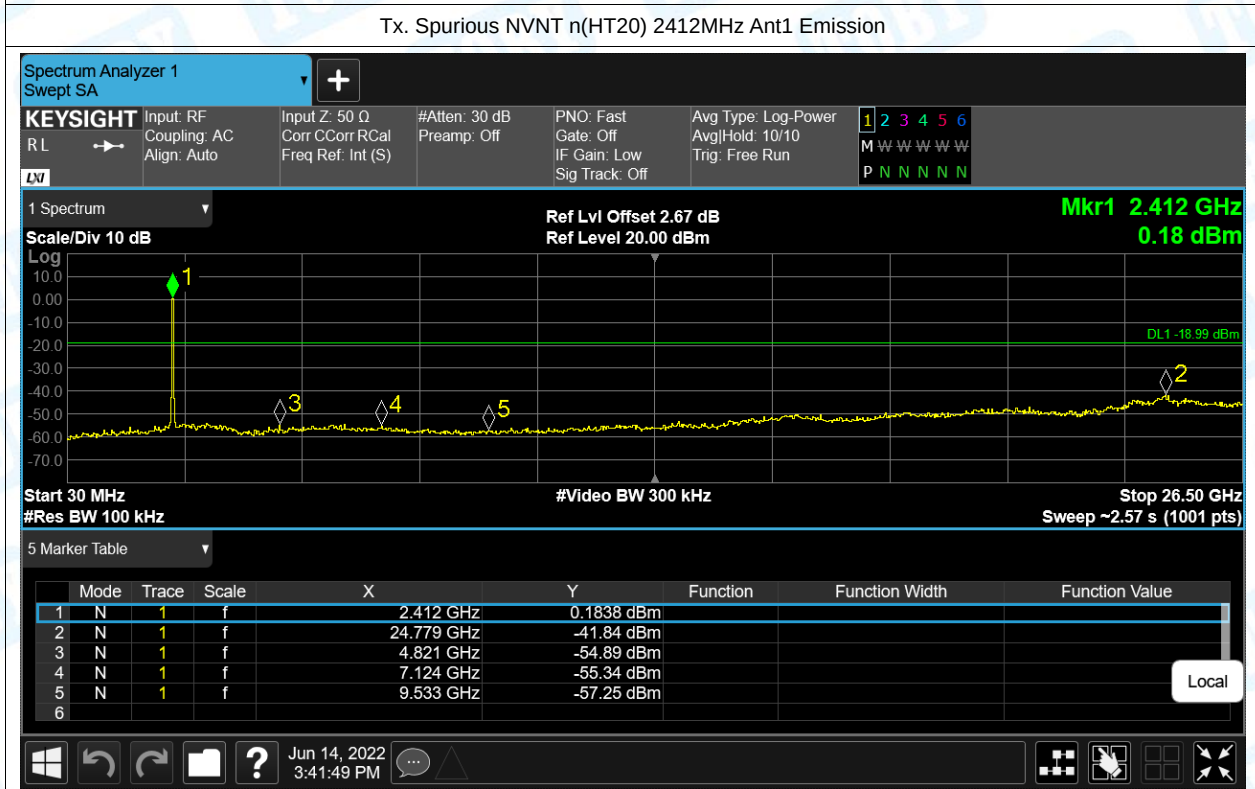
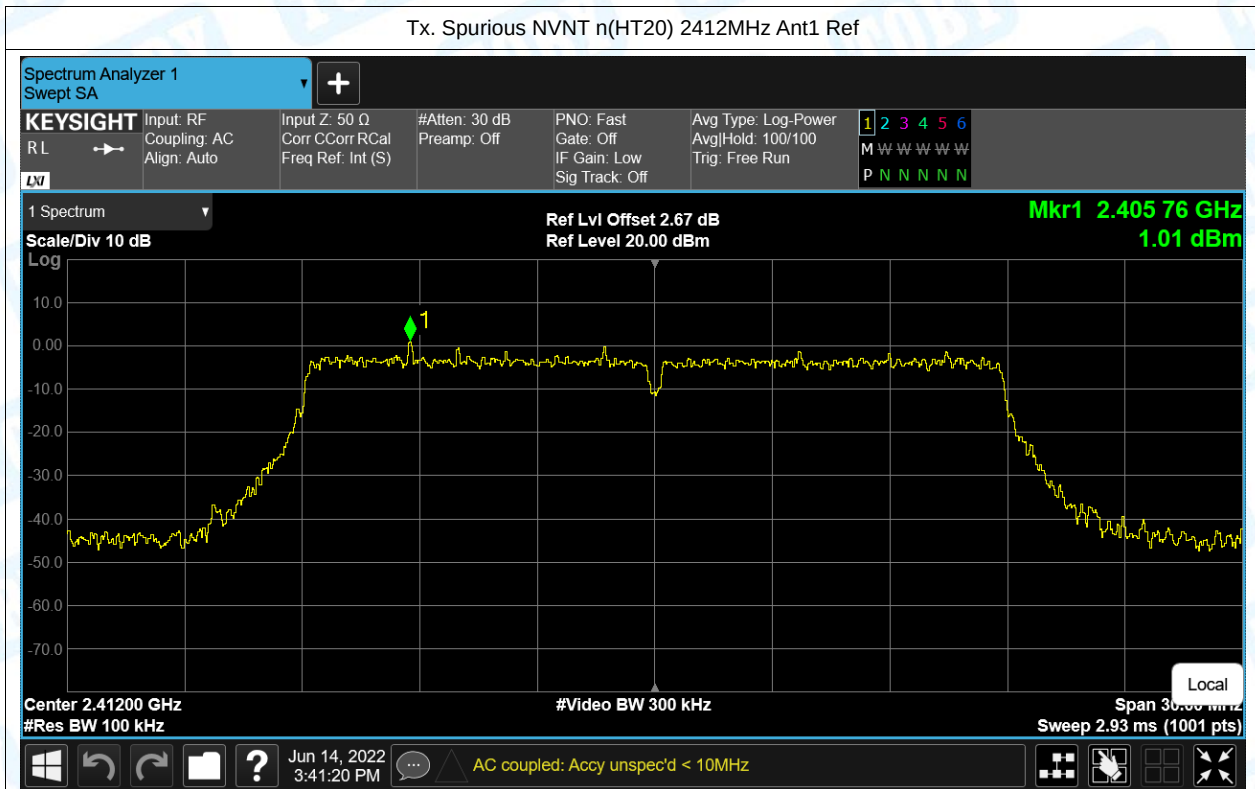


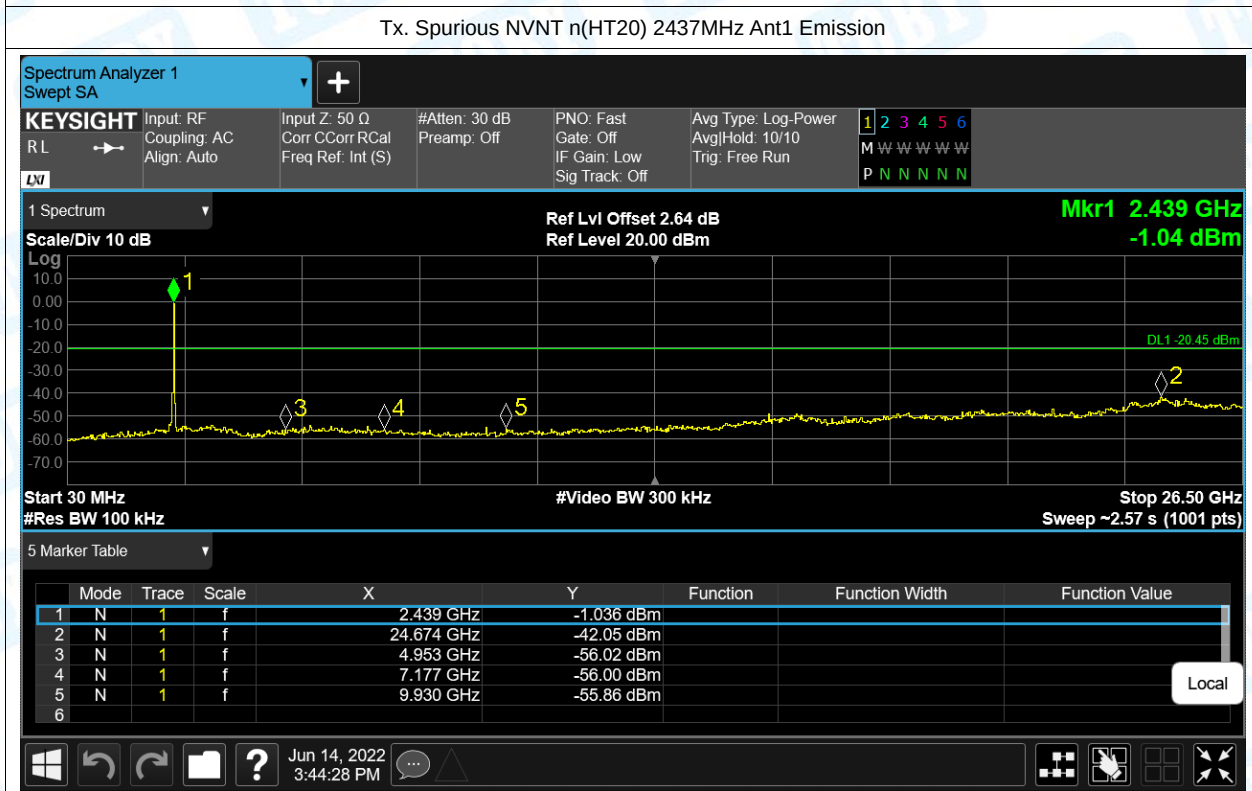
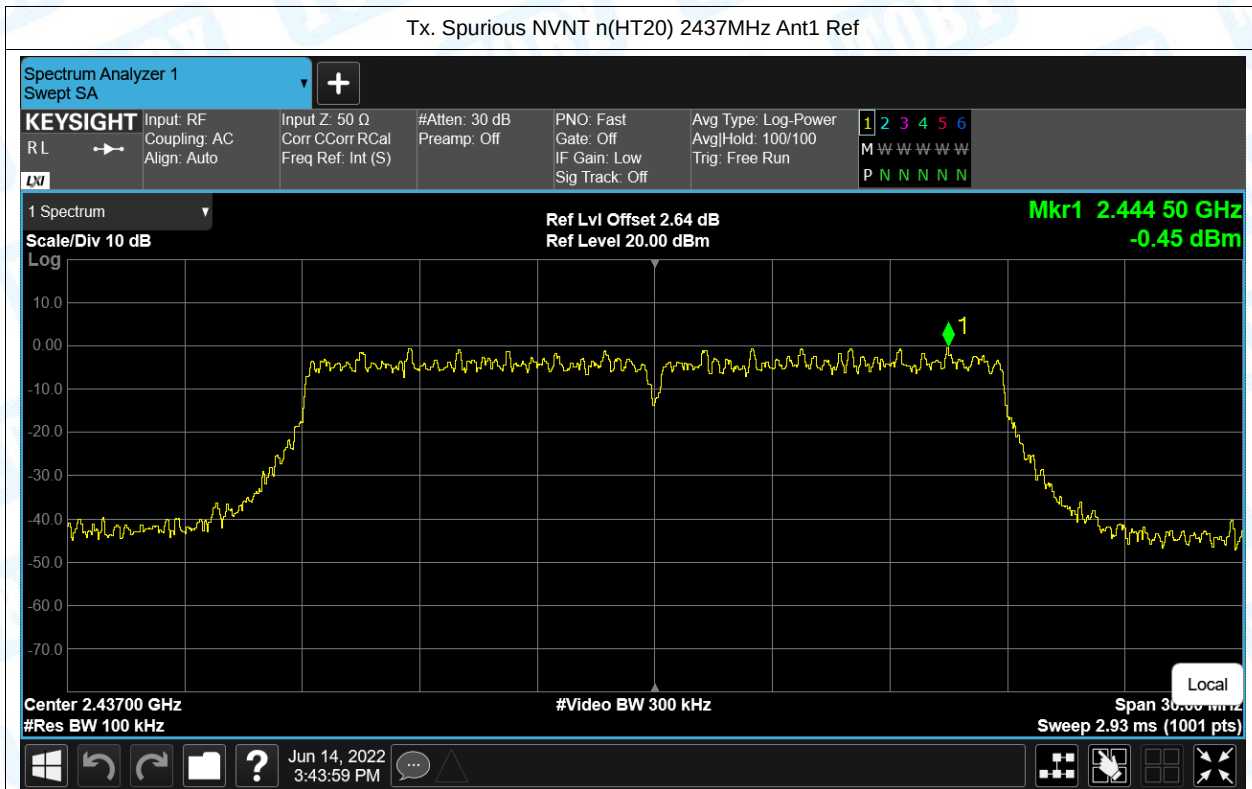


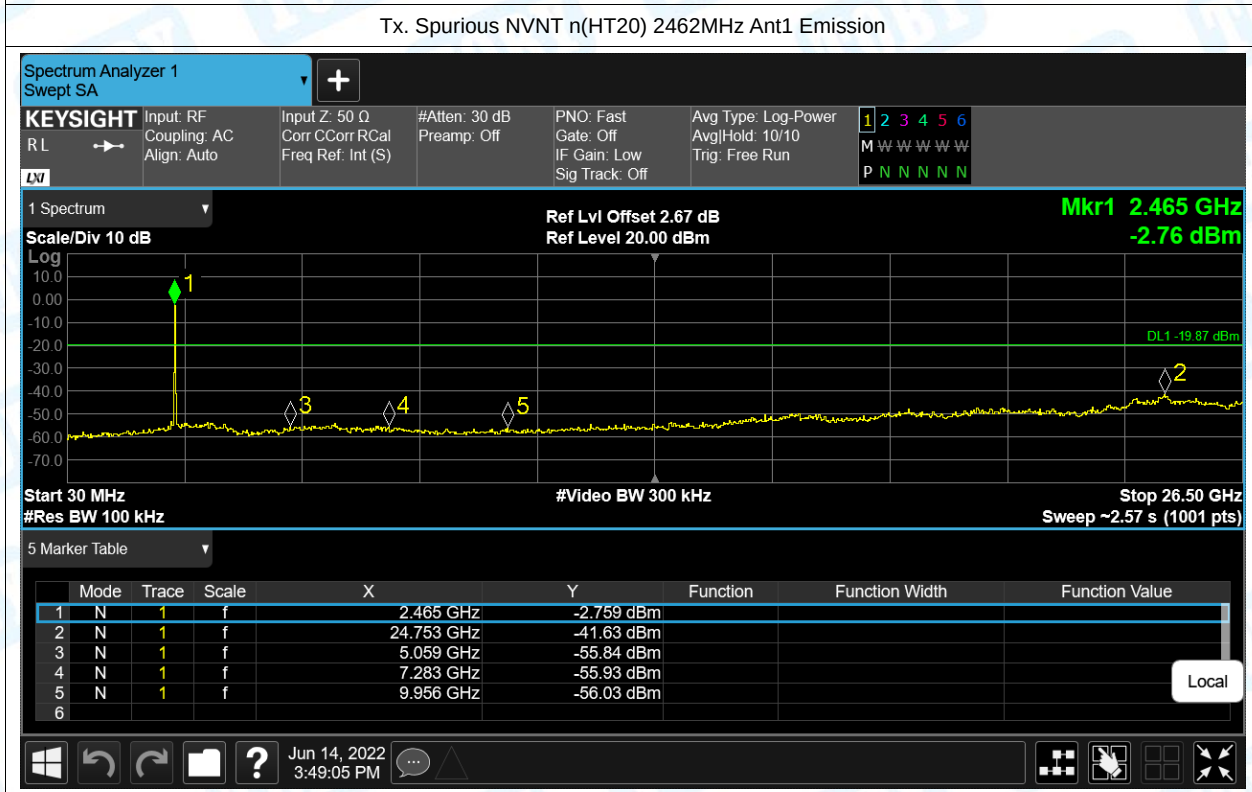
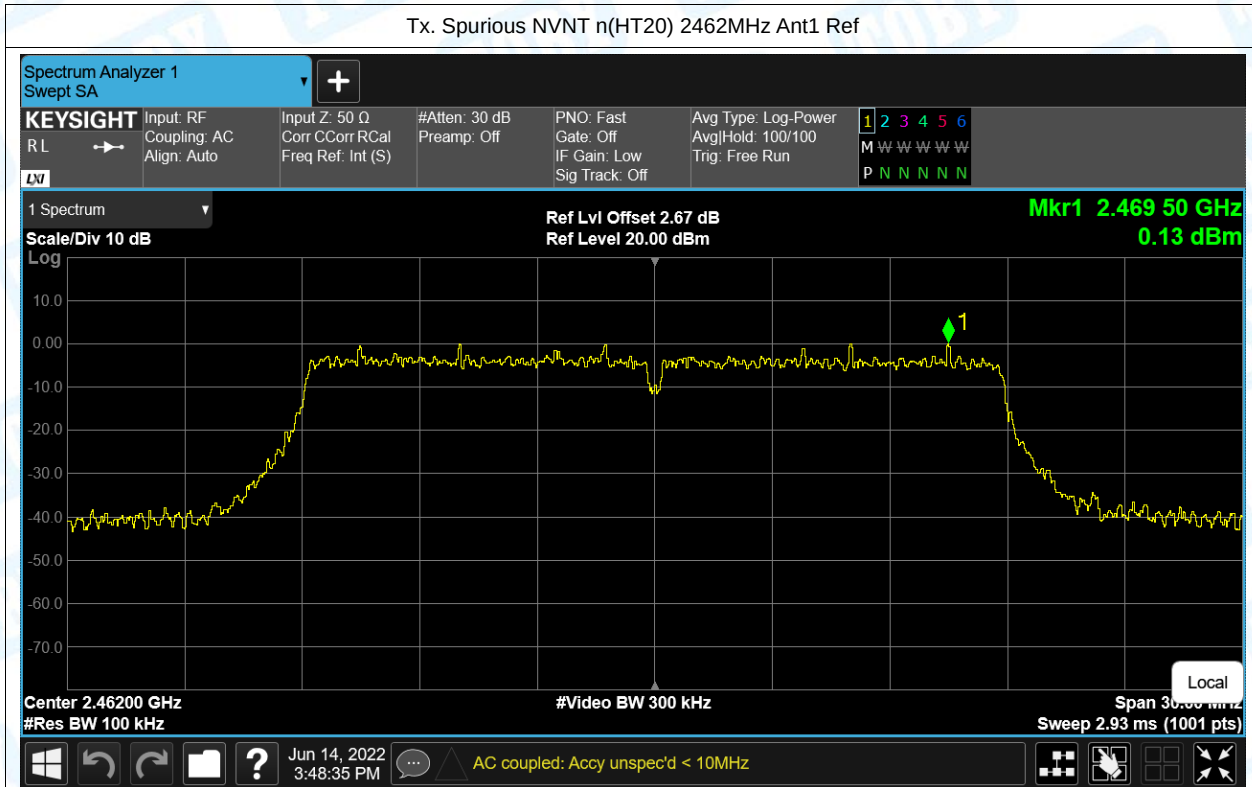






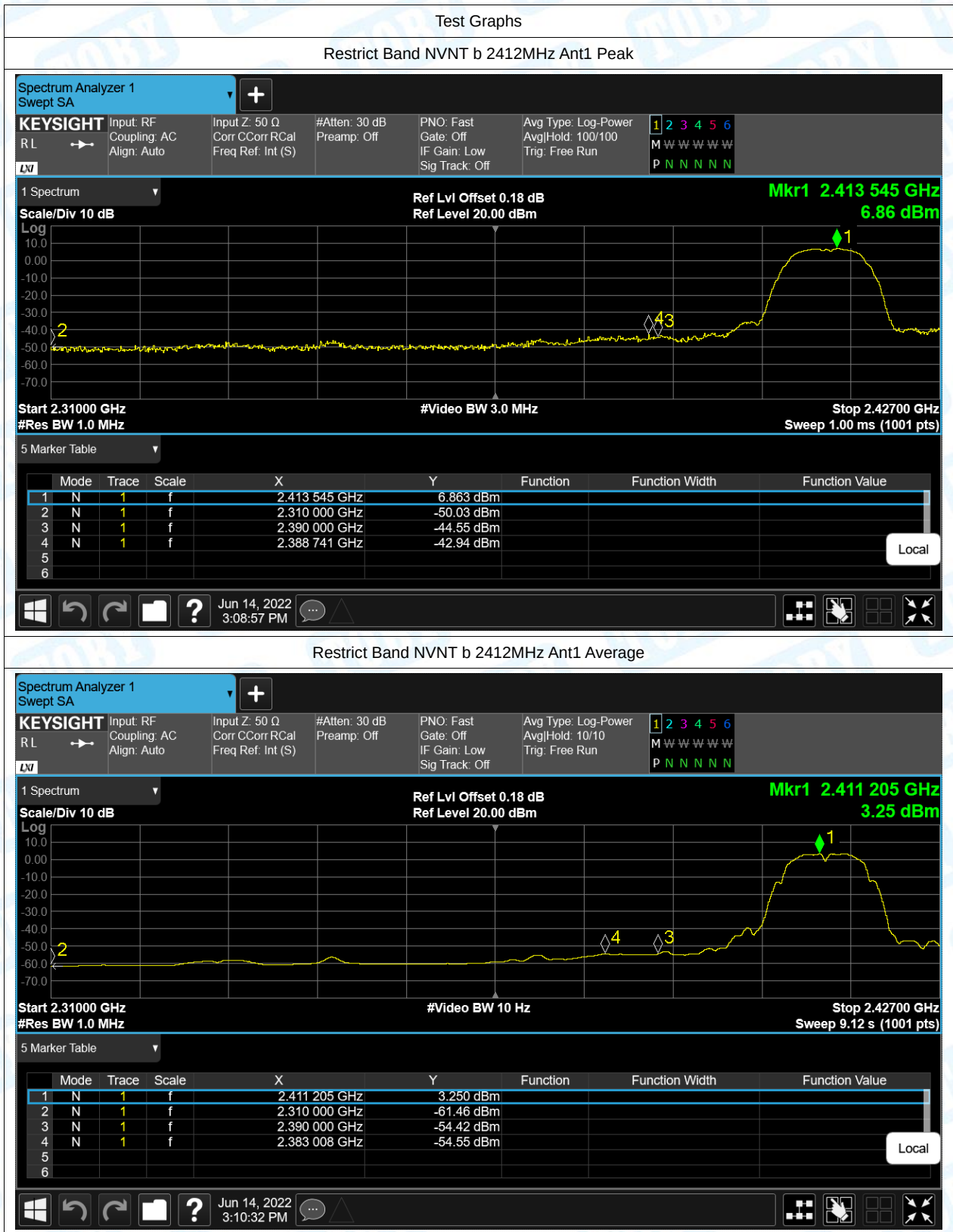


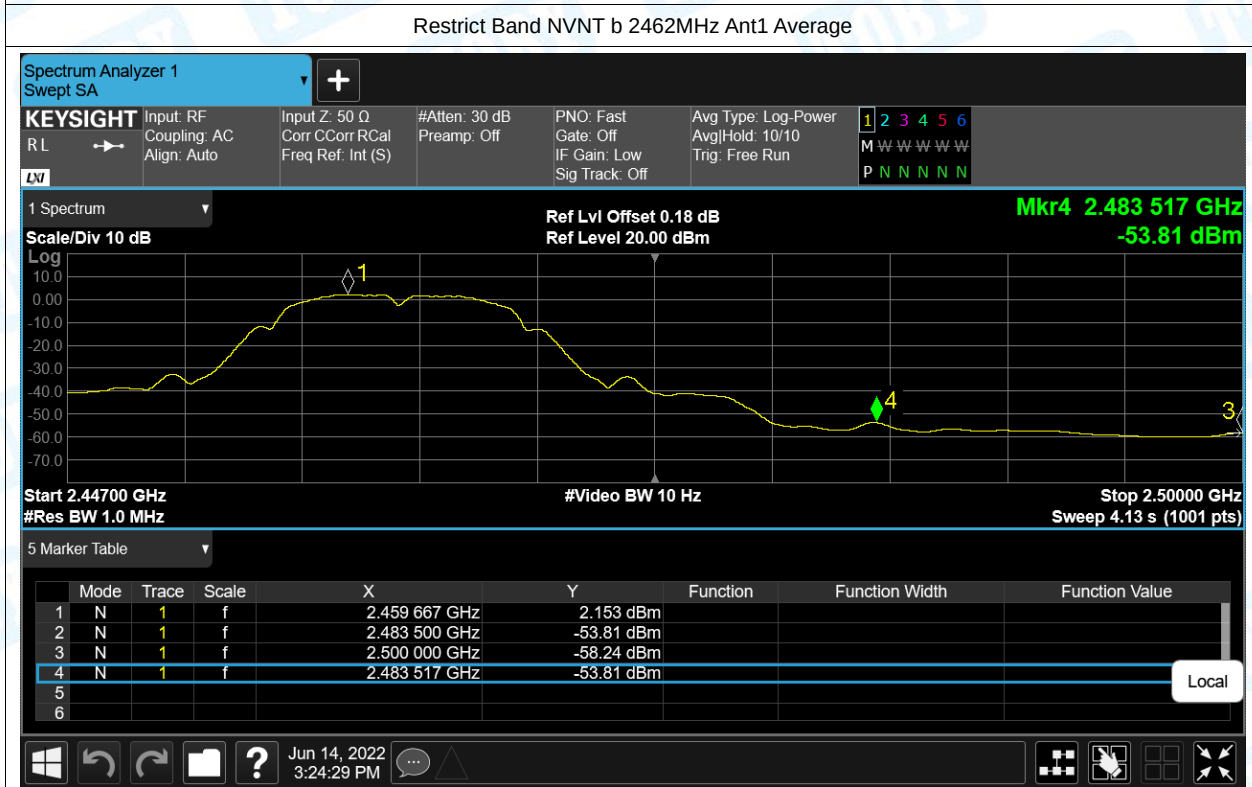
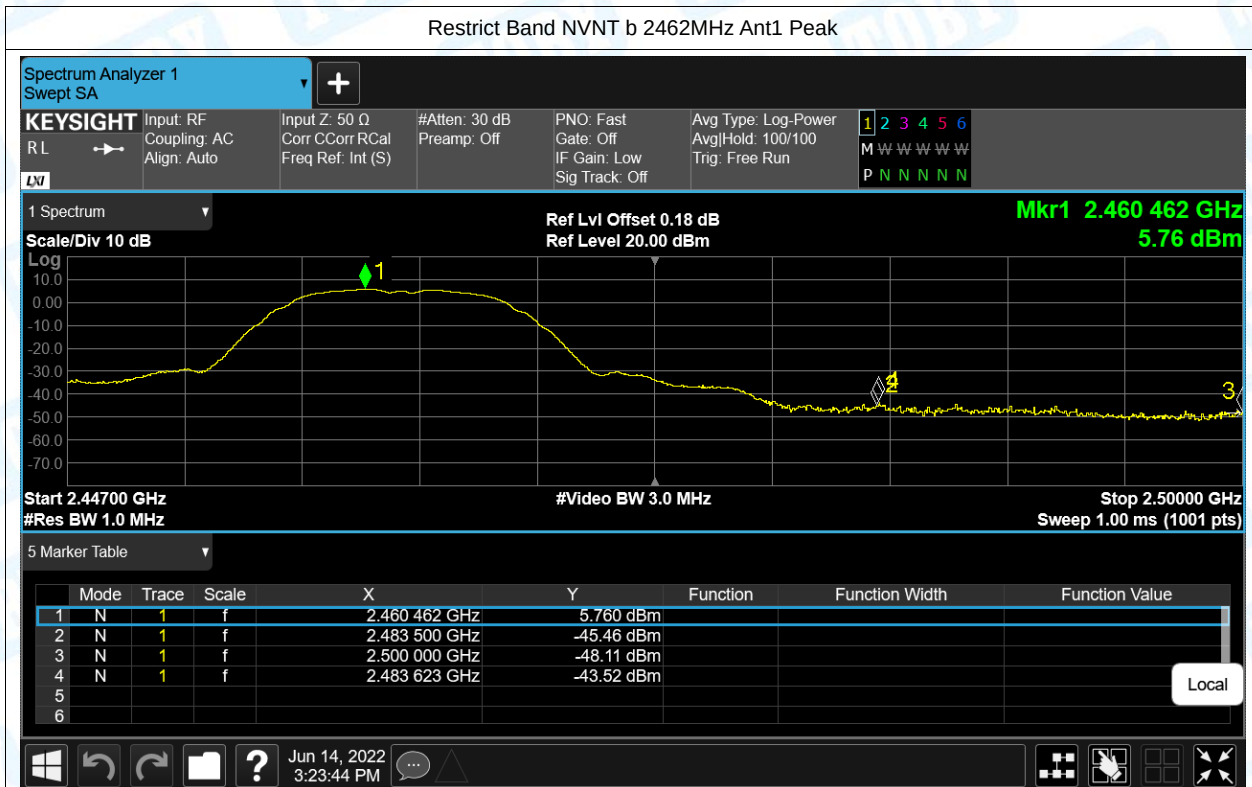




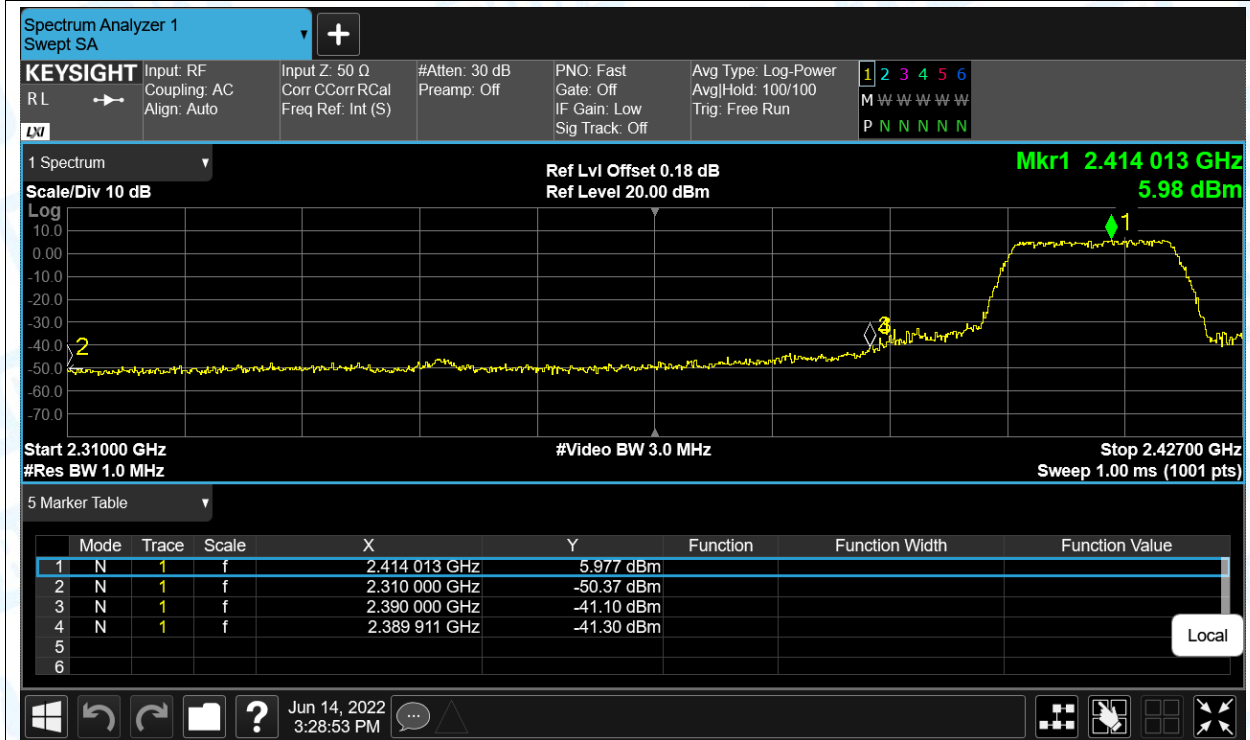
Restrict Band

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	-50.03	2	47.23	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-61.46	2	35.8	Average	54	Pass
NVNT	b	2412	Ant1	2388.741	-42.94	2	54.32	Peak	74	Pass
NVNT	b	2412	Ant1	2383.008	-54.55	2	42.71	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.55	2	52.71	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-54.42	2	42.84	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-45.46	2	51.8	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-53.81	2	43.45	Average	54	Pass
NVNT	b	2462	Ant1	2483.623	-43.52	2	53.74	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-53.81	2	43.45	Average	54	Pass
NVNT	b	2462	Ant1	2500	-48.11	2	49.15	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-58.24	2	39.02	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.37	2	46.89	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-61.59	2	35.67	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-41.3	2	55.96	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-54.16	2	43.1	Average	54	Pass
NVNT	g	2412	Ant1	2390	-41.1	2	56.16	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-54.09	2	43.17	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-36.4	2	60.86	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-53.05	2	44.21	Average	54	Pass
NVNT	g	2462	Ant1	2483.623	-35	2	62.26	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-53.05	2	44.21	Average	54	Pass
NVNT	g	2462	Ant1	2500	-51.26	2	46	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-60.54	2	36.72	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2310	-50.82	2	46.44	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2310	-61.52	2	35.74	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-37.78	2	59.48	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2389.911	-51.67	2	45.59	Average	54	Pass
NVNT	n(HT20)	2412	Ant1	2390	-38.38	2	58.88	Peak	74	Pass
NVNT	n(HT20)	2412	Ant1	2390	-51.58	2	45.68	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-37.45	2	59.81	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.5	-50.93	2	46.33	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2484.736	-33.59	2	63.67	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2483.517	-50.93	2	46.33	Average	54	Pass
NVNT	n(HT20)	2462	Ant1	2500	-50.48	2	46.78	Peak	74	Pass
NVNT	n(HT20)	2462	Ant1	2500	-59.75	2	37.51	Average	54	Pass

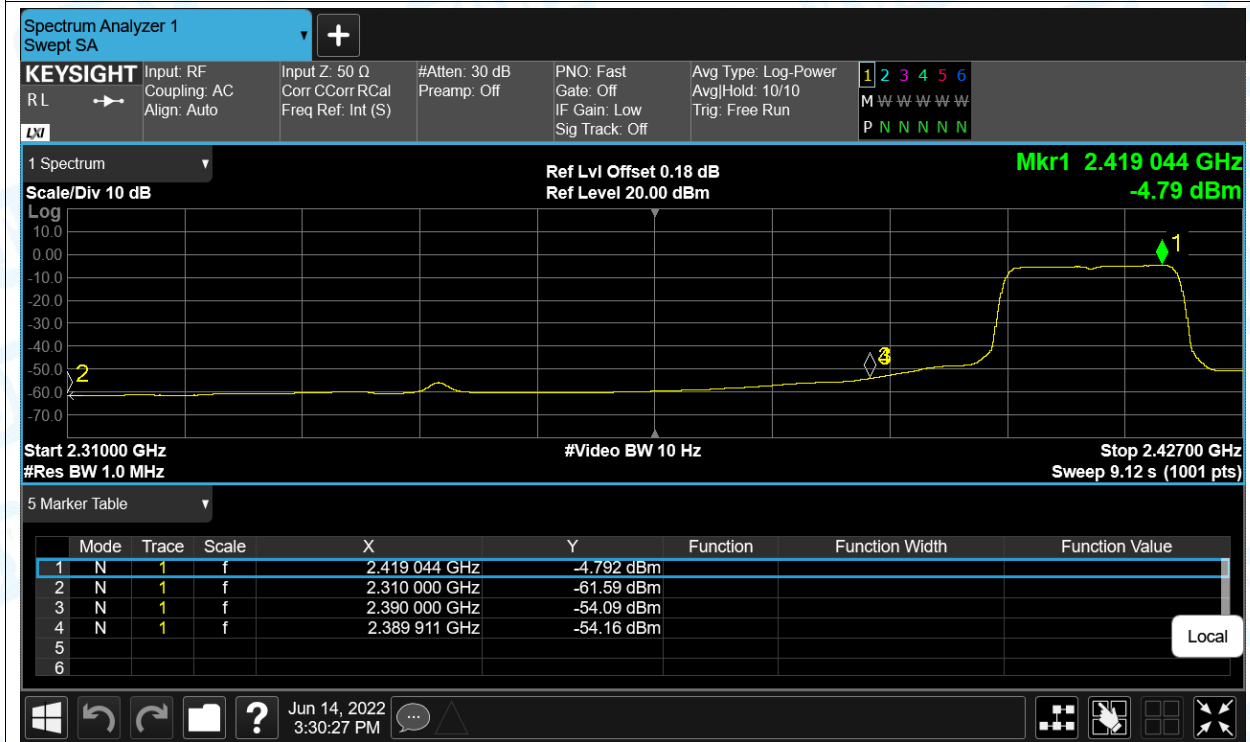


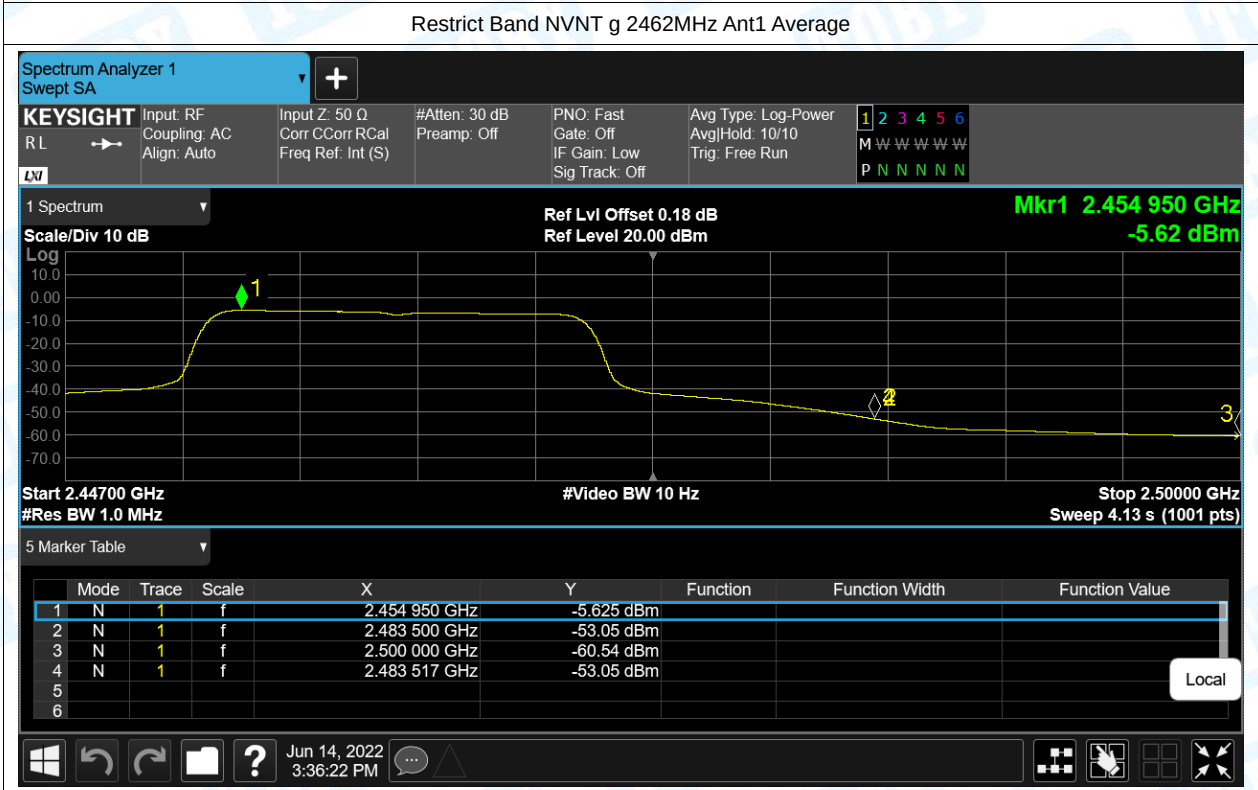
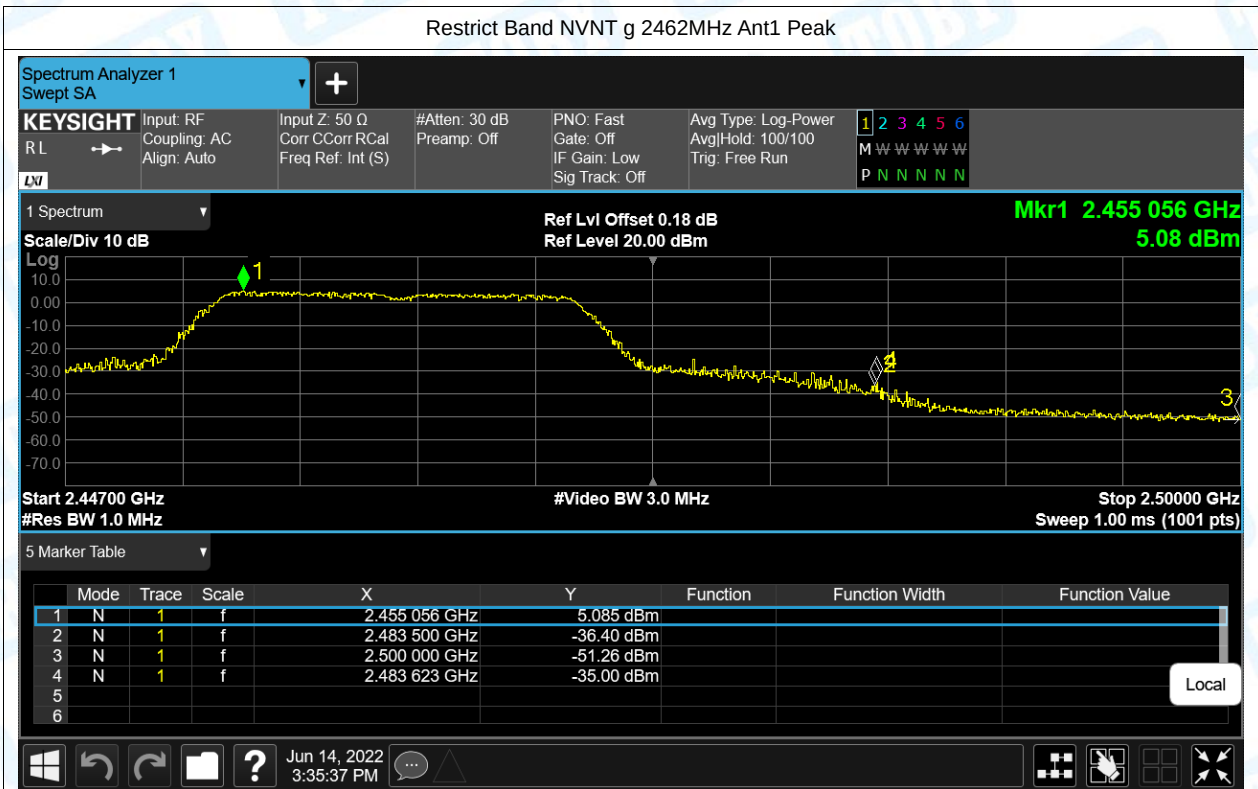


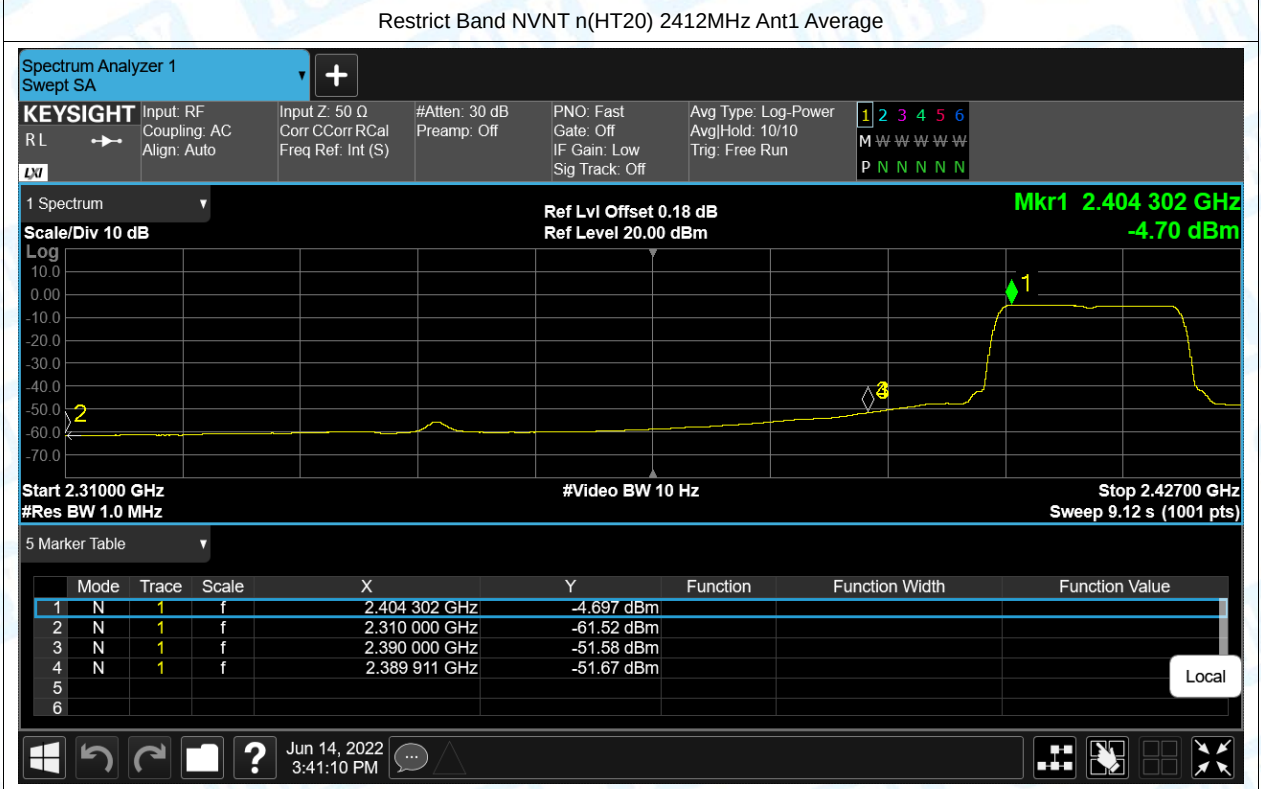
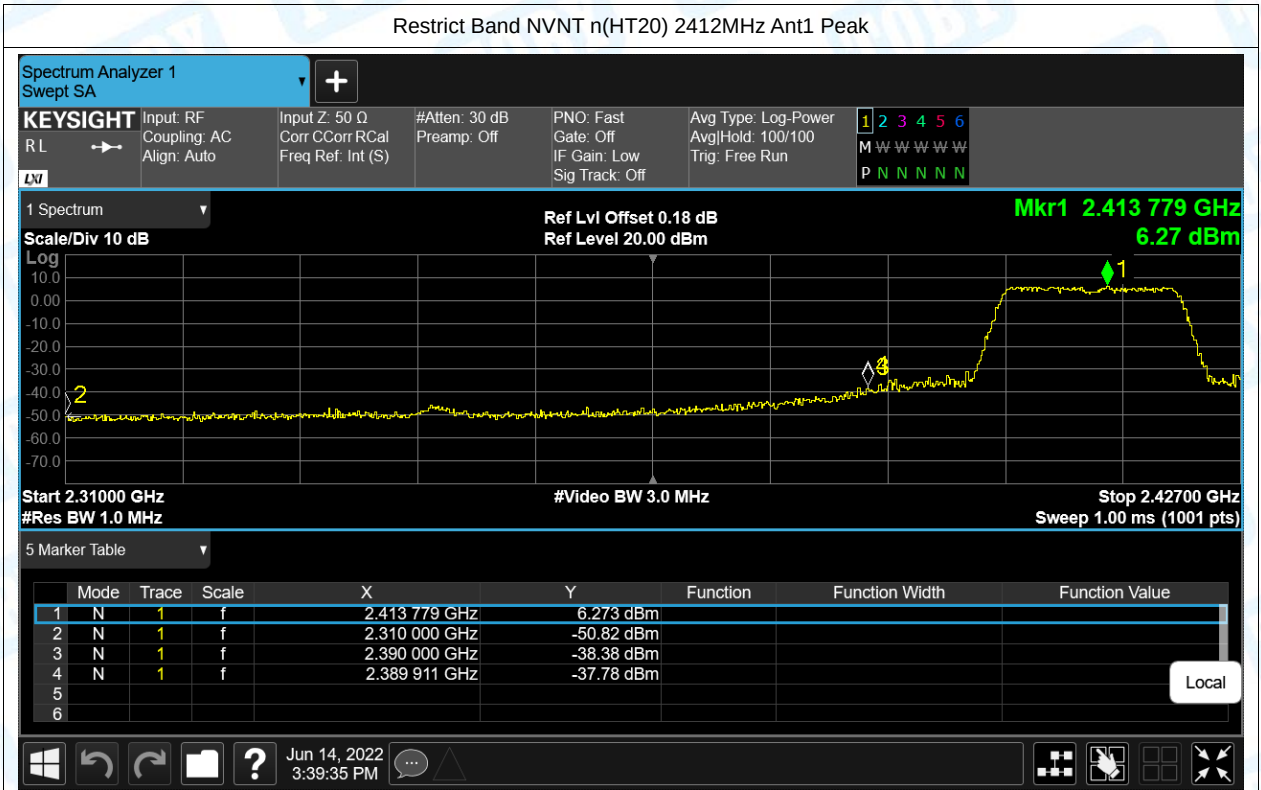
Restrict Band NVNT g 2412MHz Ant1 Peak



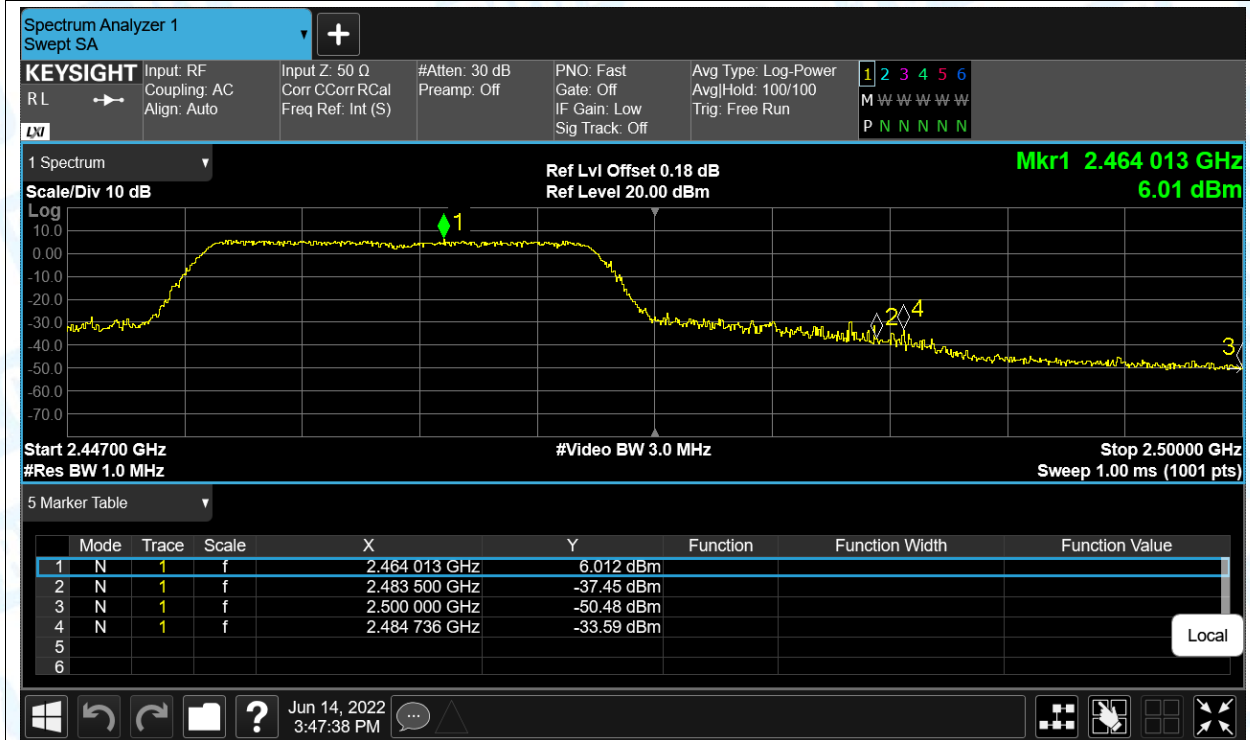
Restrict Band NVNT g 2412MHz Ant1 Average







Restrict Band NVNT n(HT20) 2462MHz Ant1 Peak



Restrict Band NVNT n(HT20) 2462MHz Ant1 Average

