

RF Test Data for 2.4GHz

(Conducted Measurements)

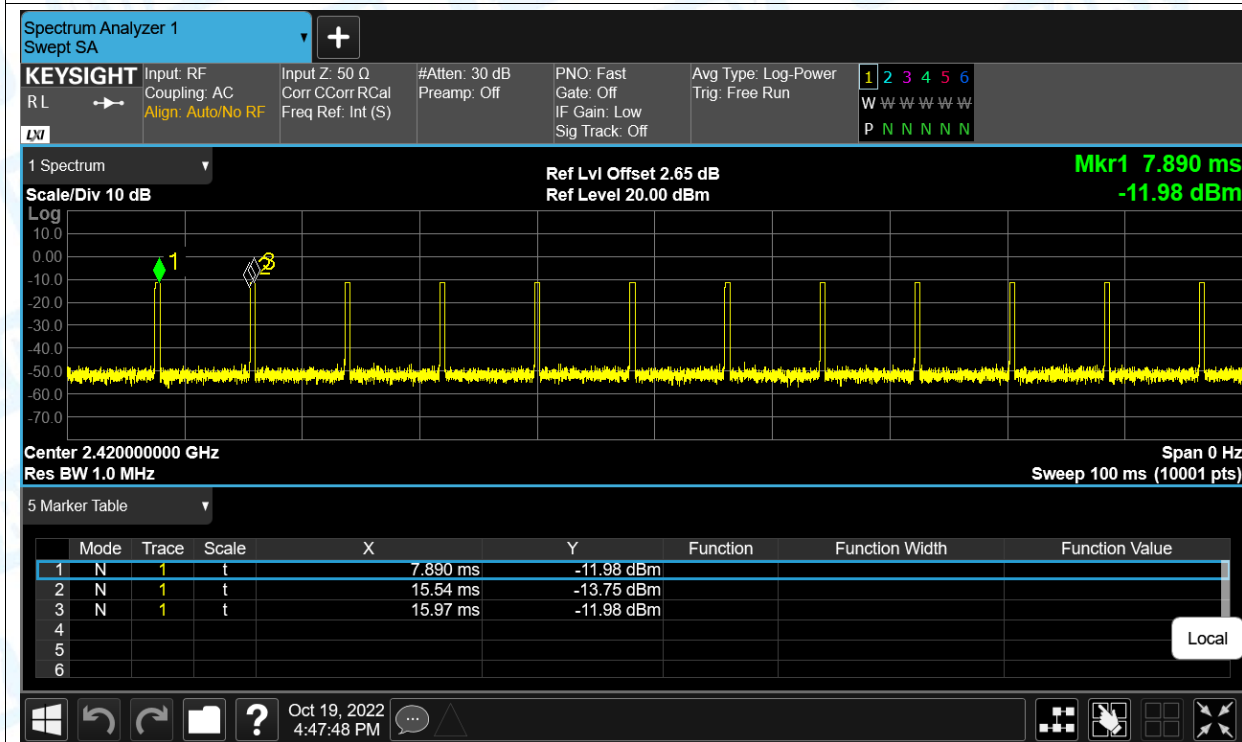
General Description of EUT	
Product Name:	DRONE MAKER SUBKIT
Test Model:	92334
Sample ID:	202209-0239-4-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 4.5V
Test Engineer:	liujiming
Note: For a more detailed features description, please refer to the report TBR-C-202209-0239-4.	

Duty Cycle

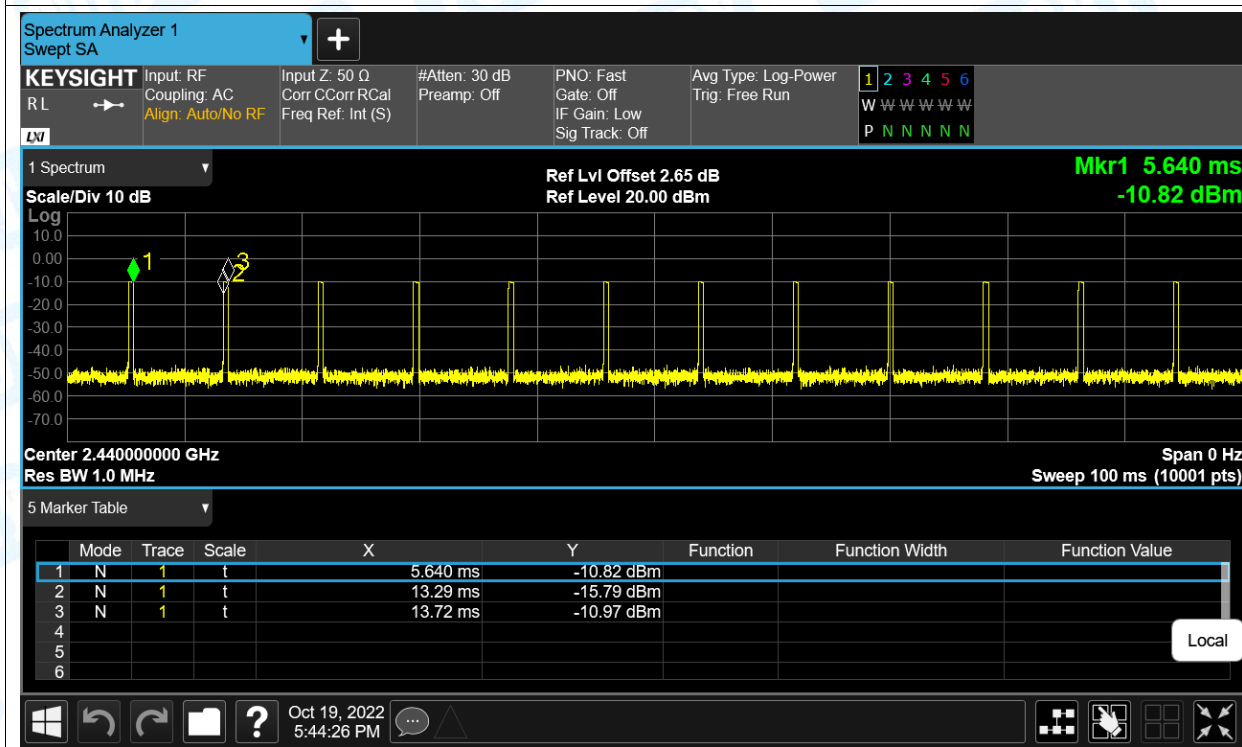
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4GHz	2420	Ant1	5.32	12.74	2.33
NVNT	2.4GHz	2440	Ant1	5.32	12.74	2.33
NVNT	2.4GHz	2460	Ant1	5.32	12.74	2.33

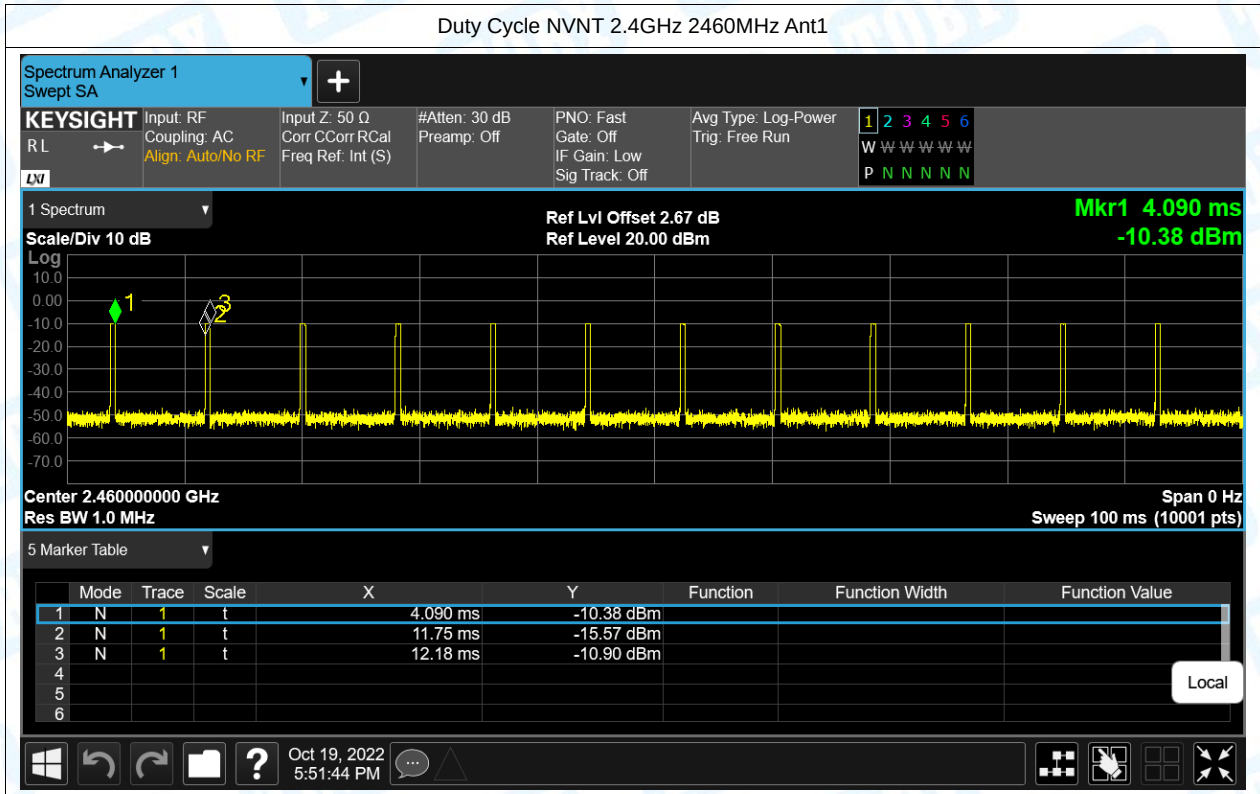
Test Graphs

Duty Cycle NVNT 2.4GHz 2420MHz Ant1



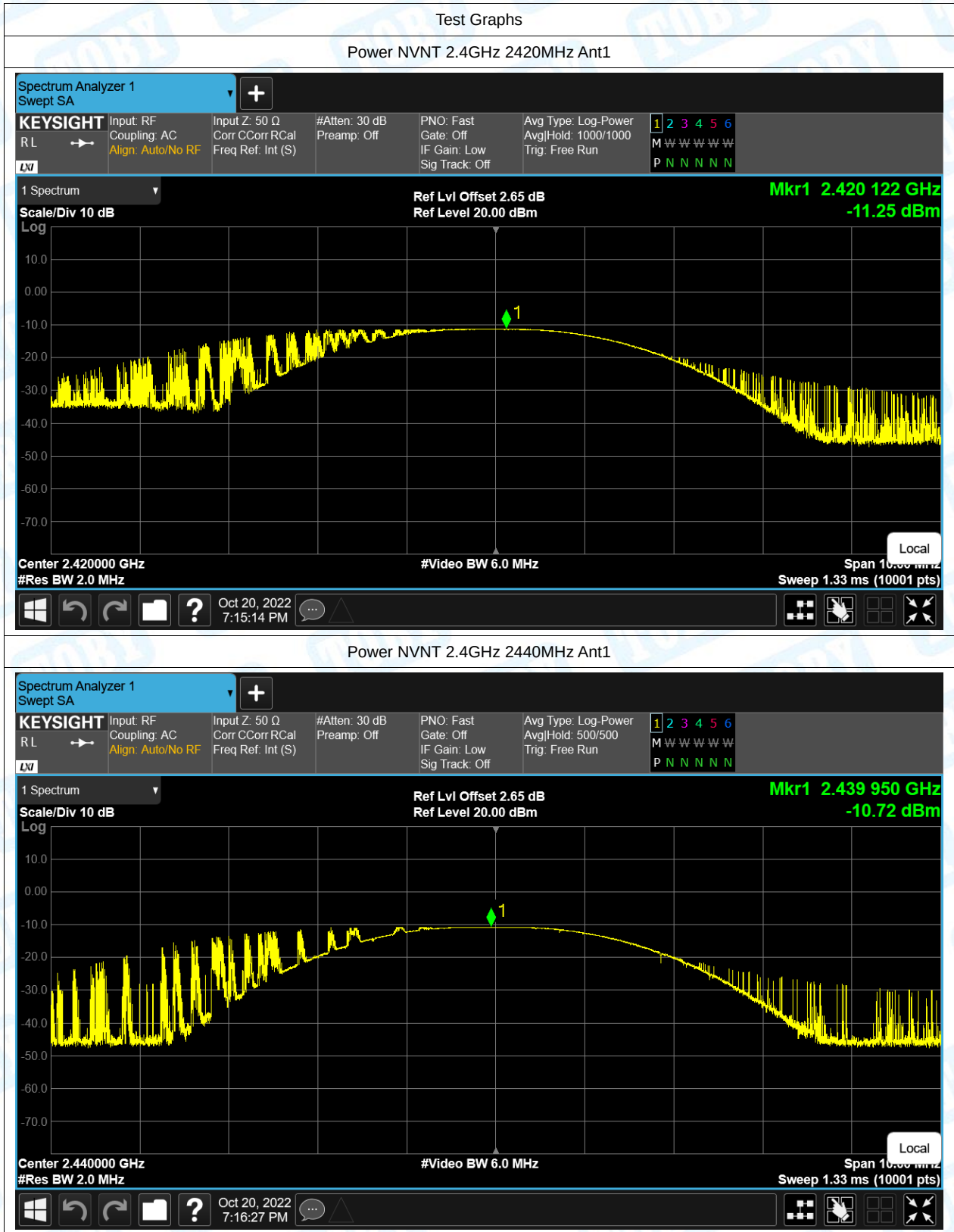
Duty Cycle NVNT 2.4GHz 2440MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4GHz	2420	Ant1	-11.246	30	Pass
NVNT	2.4GHz	2440	Ant1	-10.716	30	Pass
NVNT	2.4GHz	2460	Ant1	-10.573	30	Pass



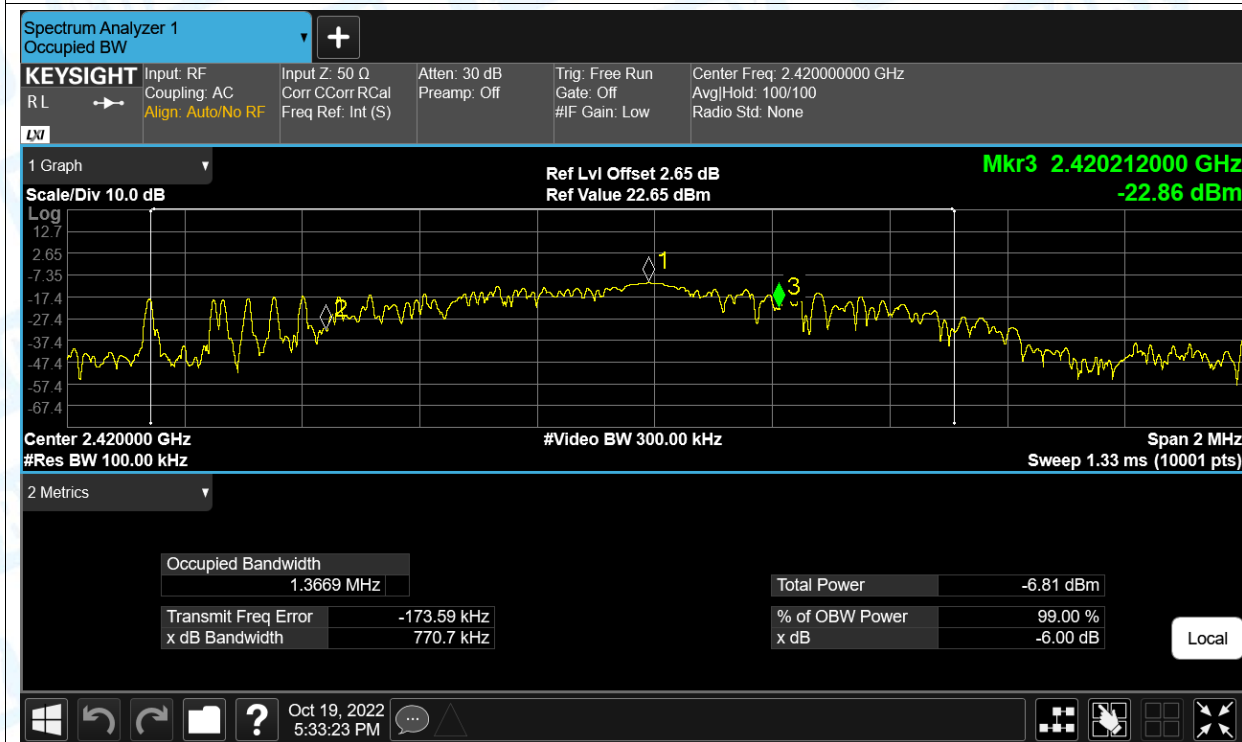


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4GHz	2420	Ant1	0.77	0.5	Pass
NVNT	2.4GHz	2440	Ant1	0.85	0.5	Pass
NVNT	2.4GHz	2460	Ant1	0.64	0.5	Pass

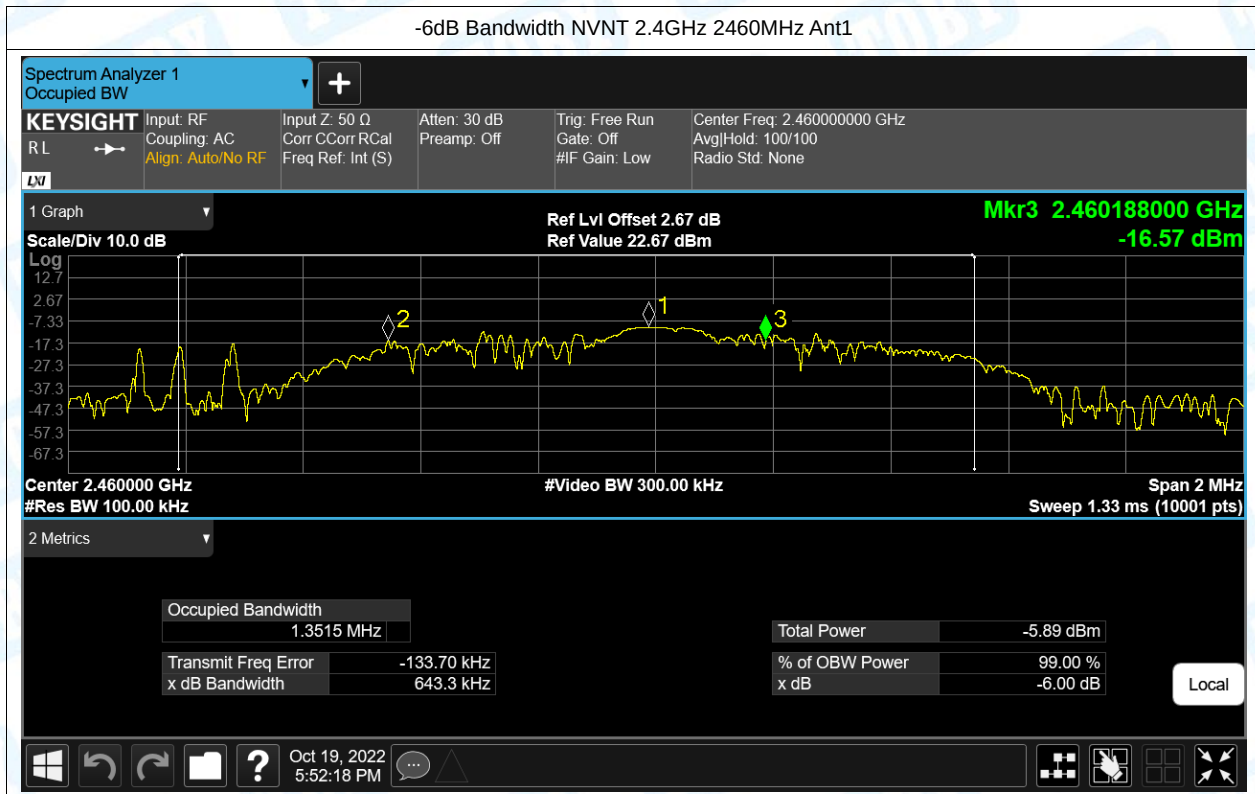
Test Graphs

-6dB Bandwidth NVNT 2.4GHz 2420MHz Ant1



-6dB Bandwidth NVNT 2.4GHz 2440MHz Ant1



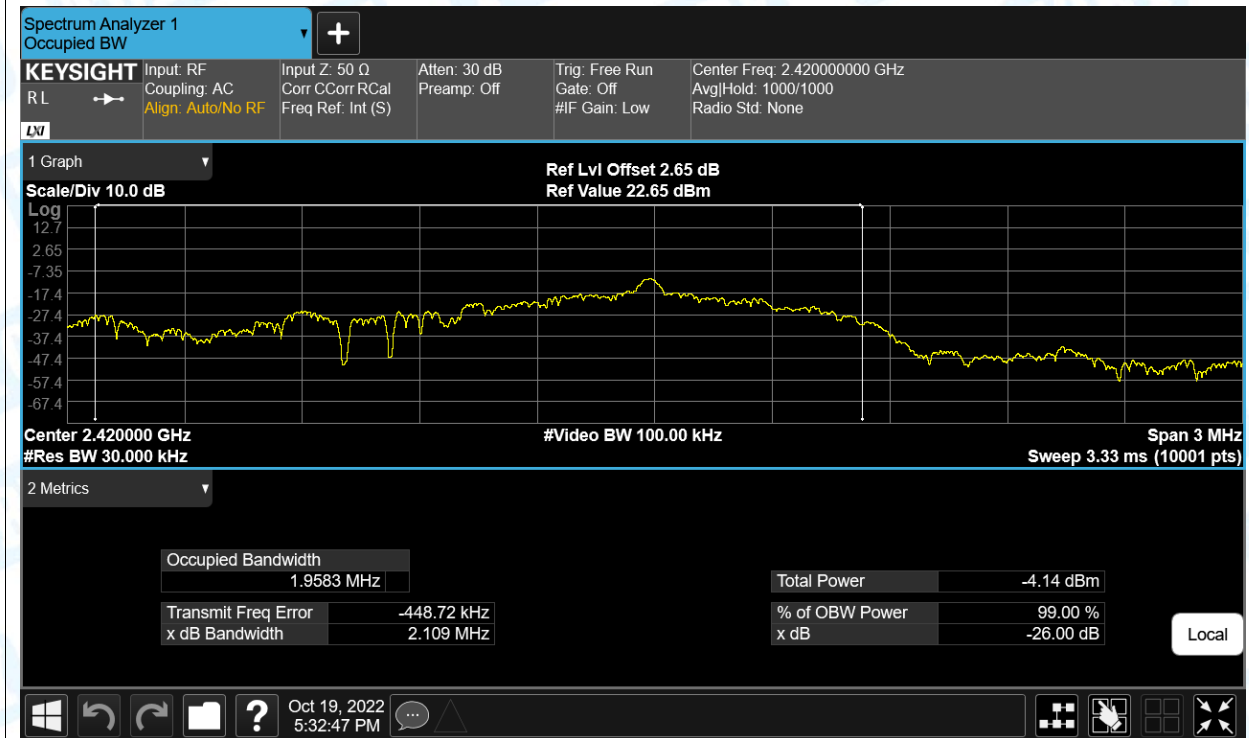


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	2.4GHz	2420	Ant1	1.958
NVNT	2.4GHz	2440	Ant1	1.548
NVNT	2.4GHz	2460	Ant1	1.711

Test Graphs

OBW NVNT 2.4GHz 2420MHz Ant1



OBW NVNT 2.4GHz 2440MHz Ant1



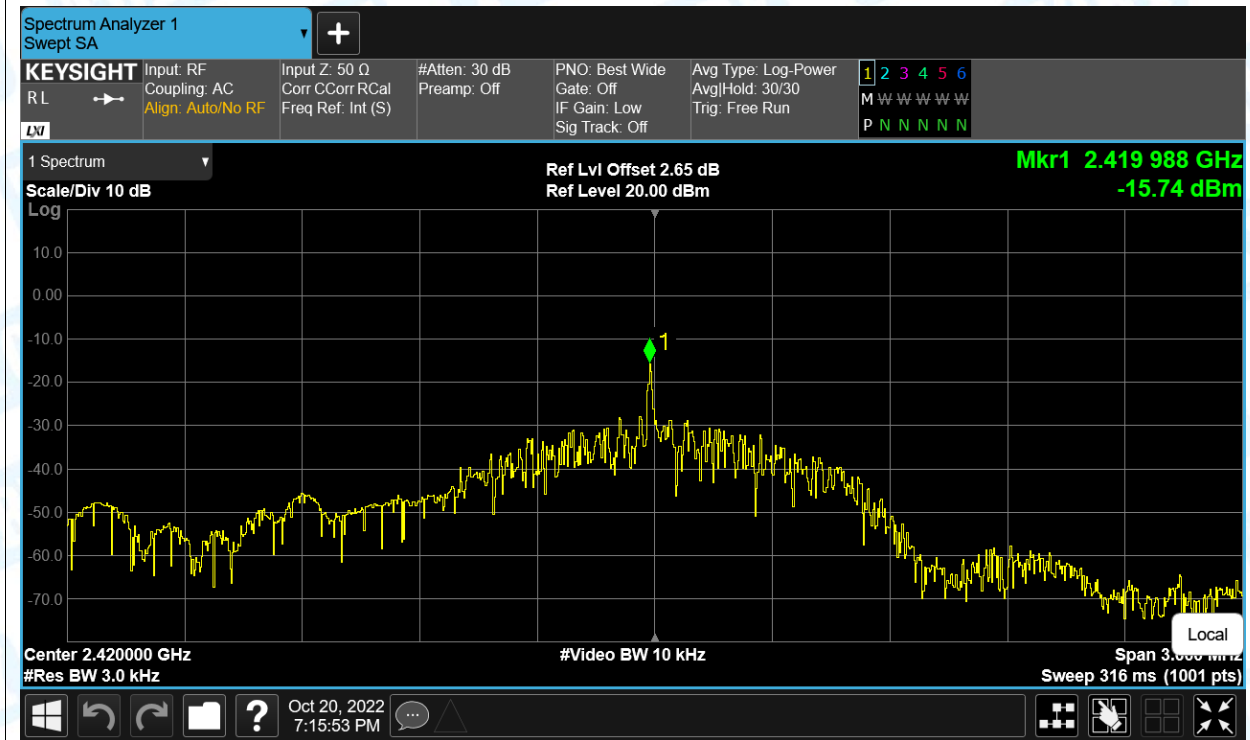


Maximum Power Spectral Density Level

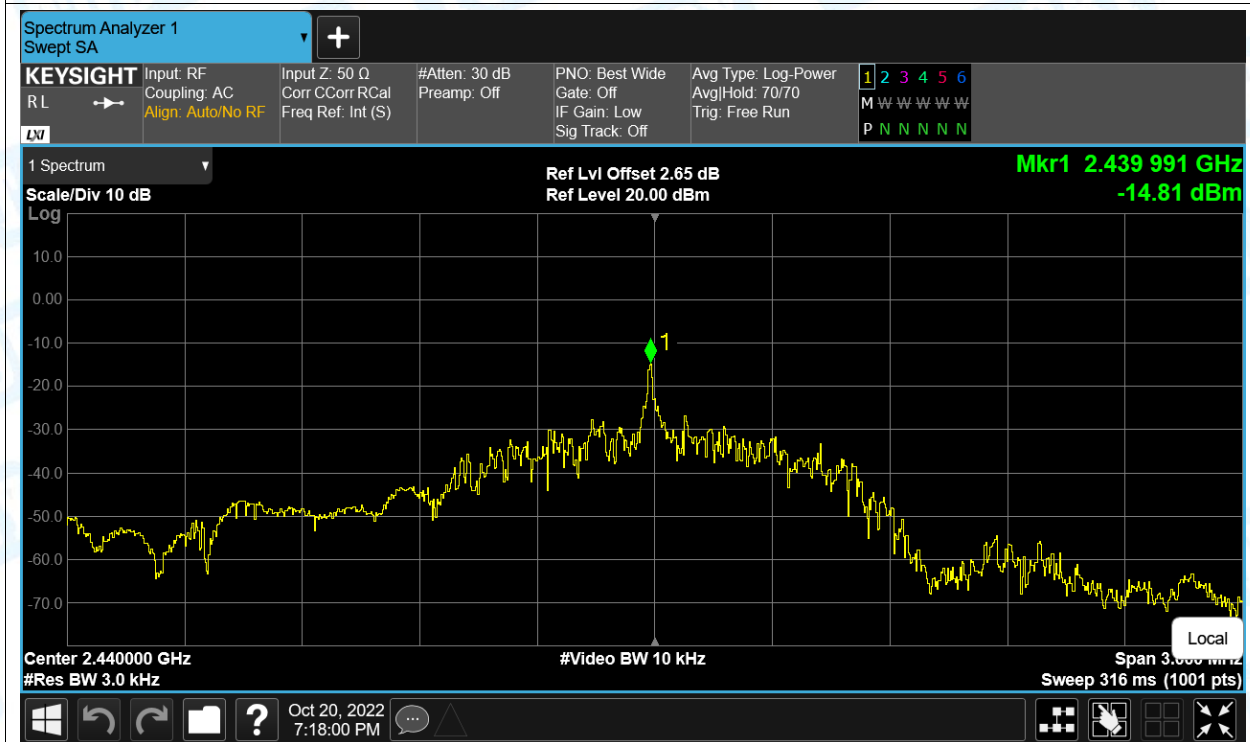
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	2.4GHz	2420	Ant1	-15.74	8	Pass
NVNT	2.4GHz	2440	Ant1	-14.805	8	Pass
NVNT	2.4GHz	2460	Ant1	-14.386	8	Pass

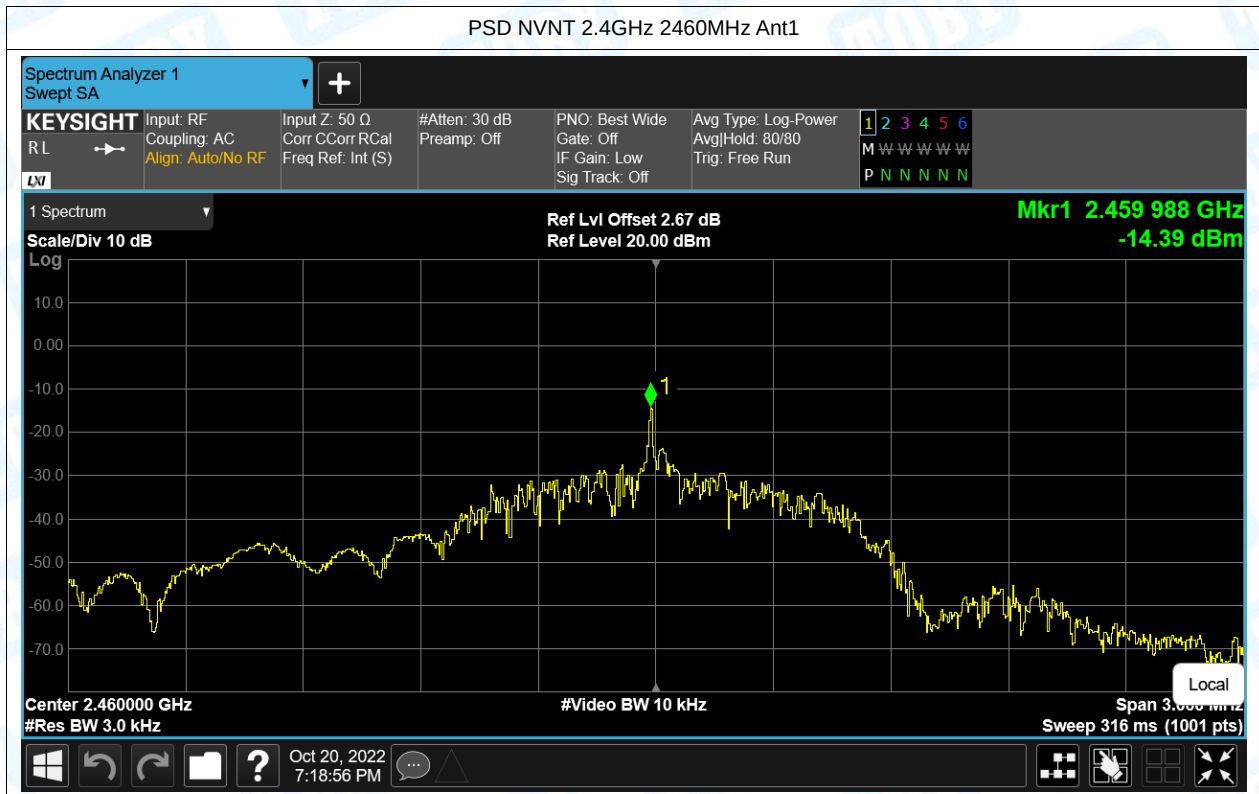
Test Graphs

PSD NVNT 2.4GHz 2420MHz Ant1



PSD NVNT 2.4GHz 2440MHz Ant1





Band Edge

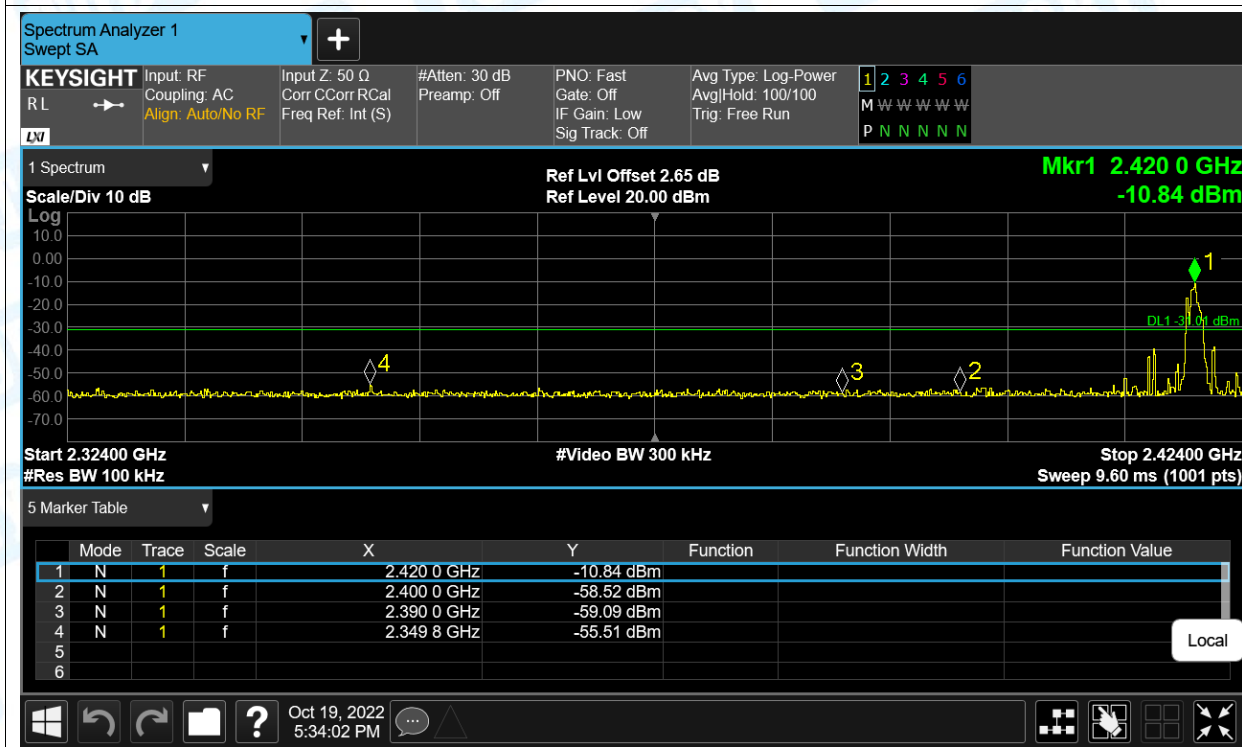
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4GHz	2420	Ant1	-44.5	-20	Pass
NVNT	2.4GHz	2460	Ant1	-45.88	-20	Pass

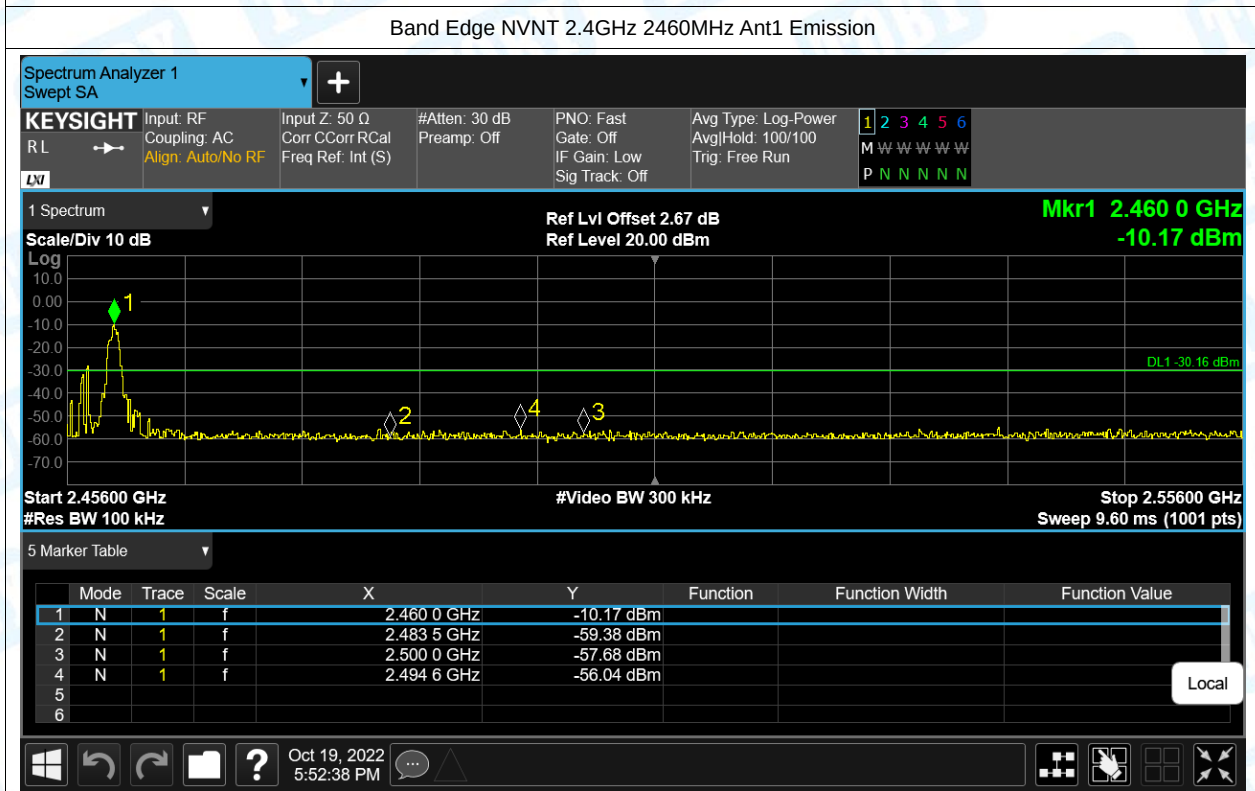
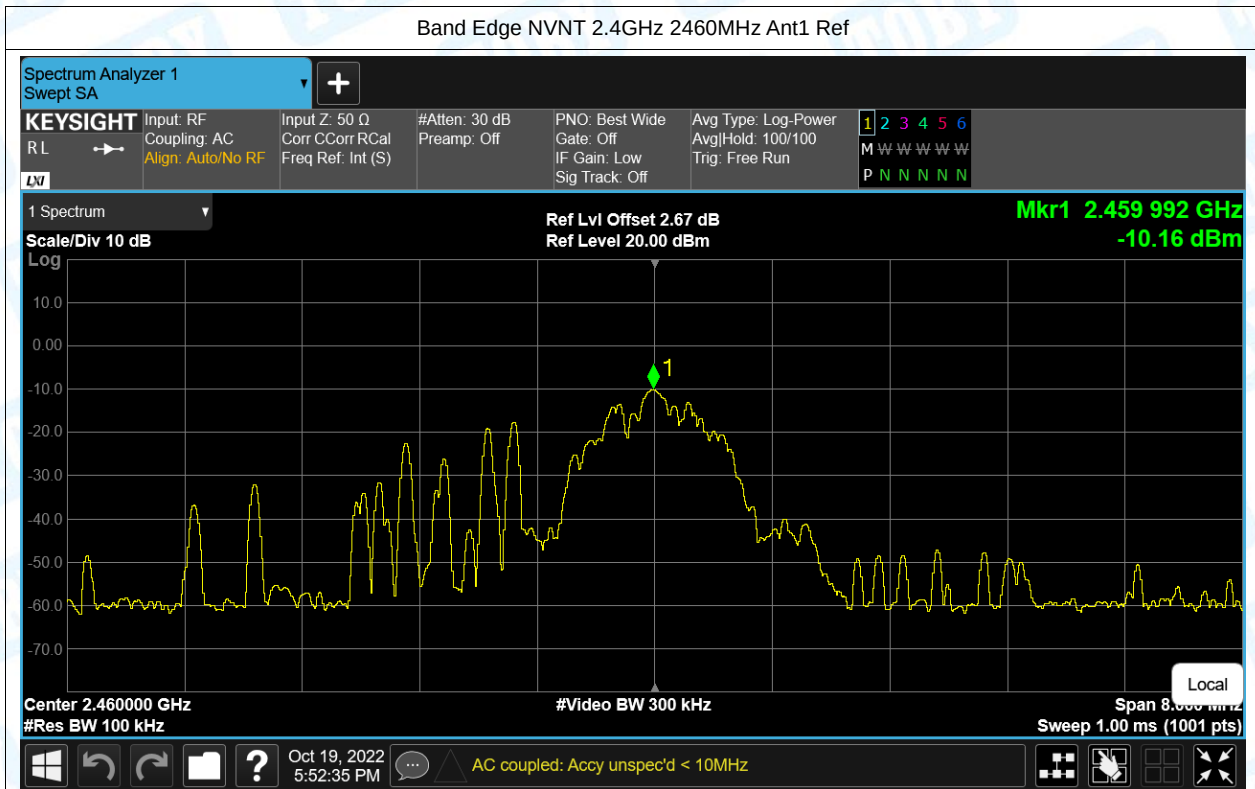
Test Graphs

Band Edge NVNT 2.4GHz 2420MHz Ant1 Ref



Band Edge NVNT 2.4GHz 2420MHz Ant1 Emission

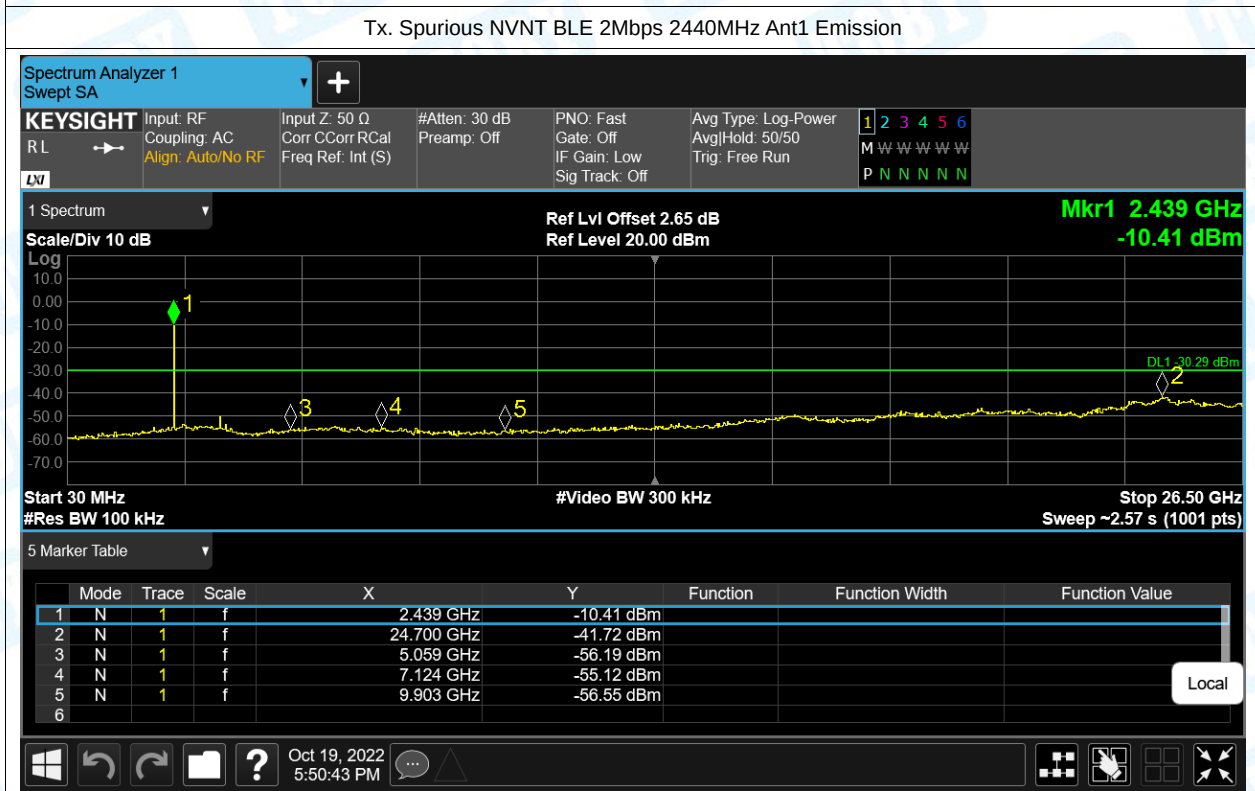
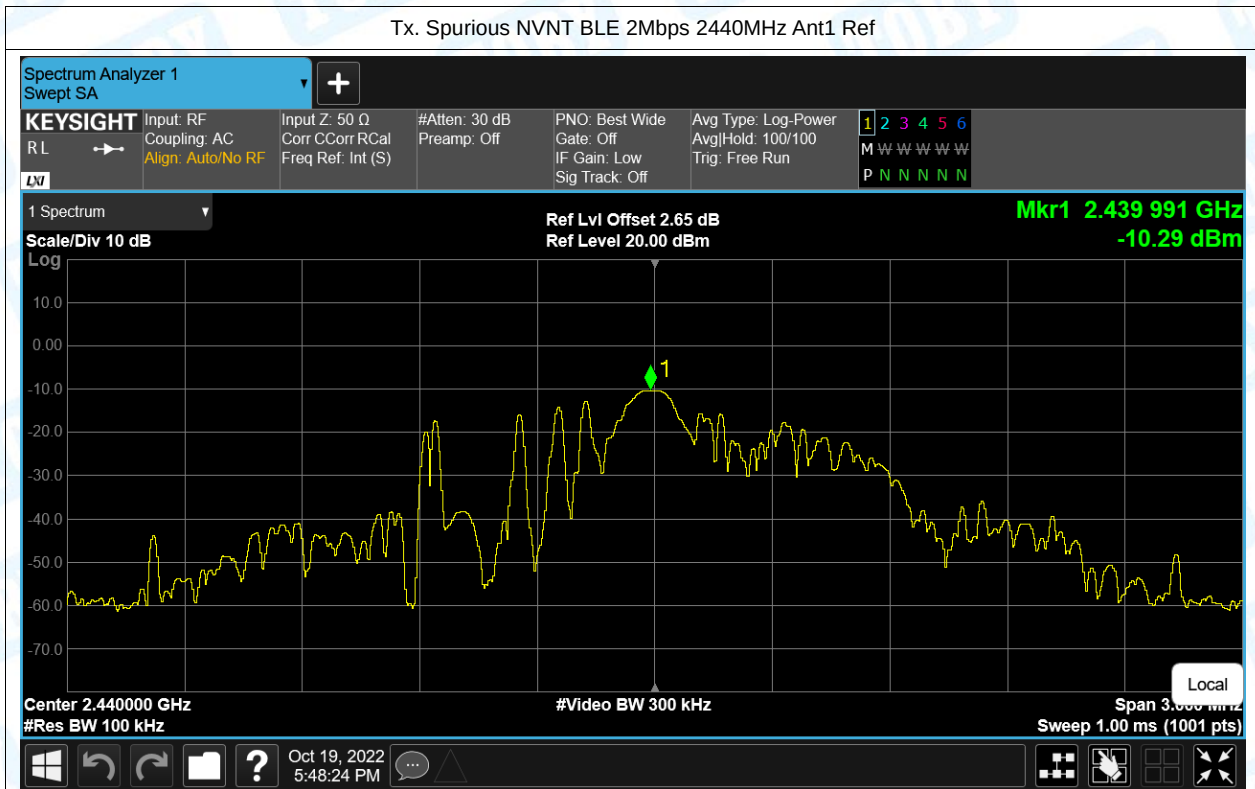


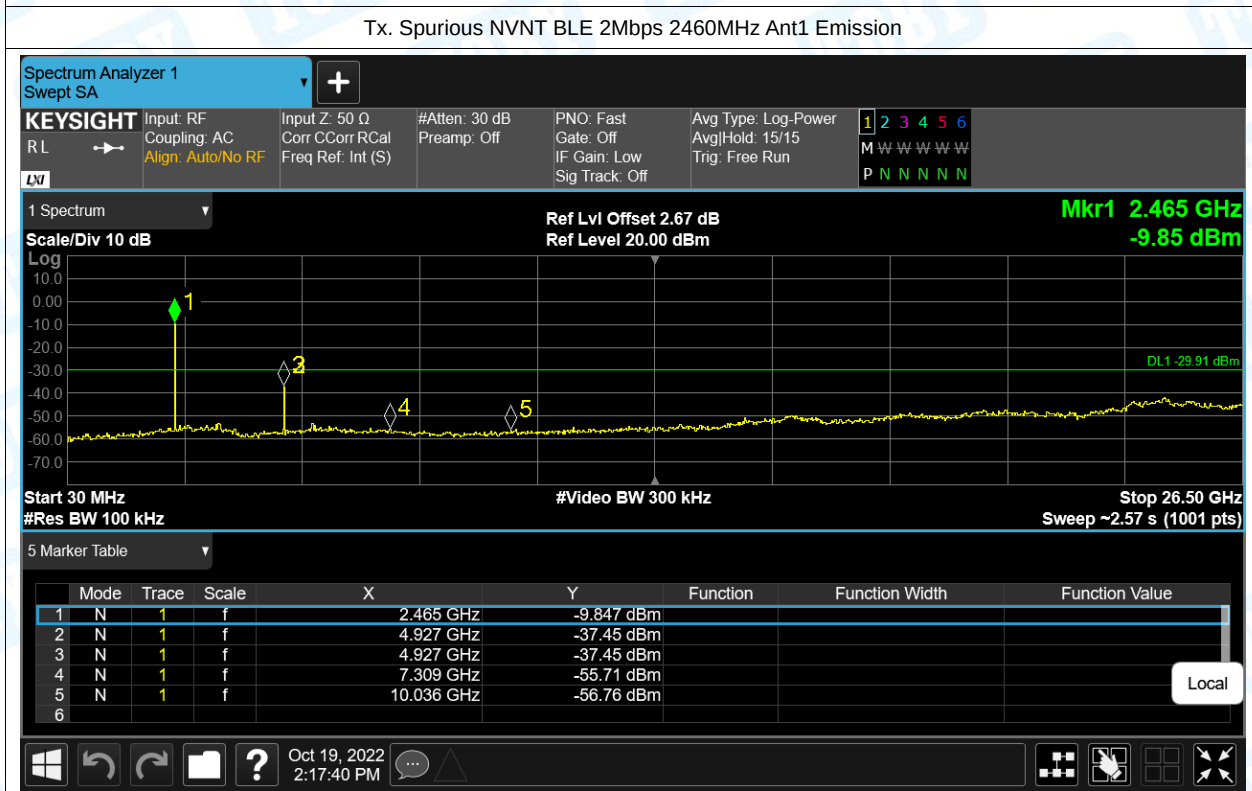
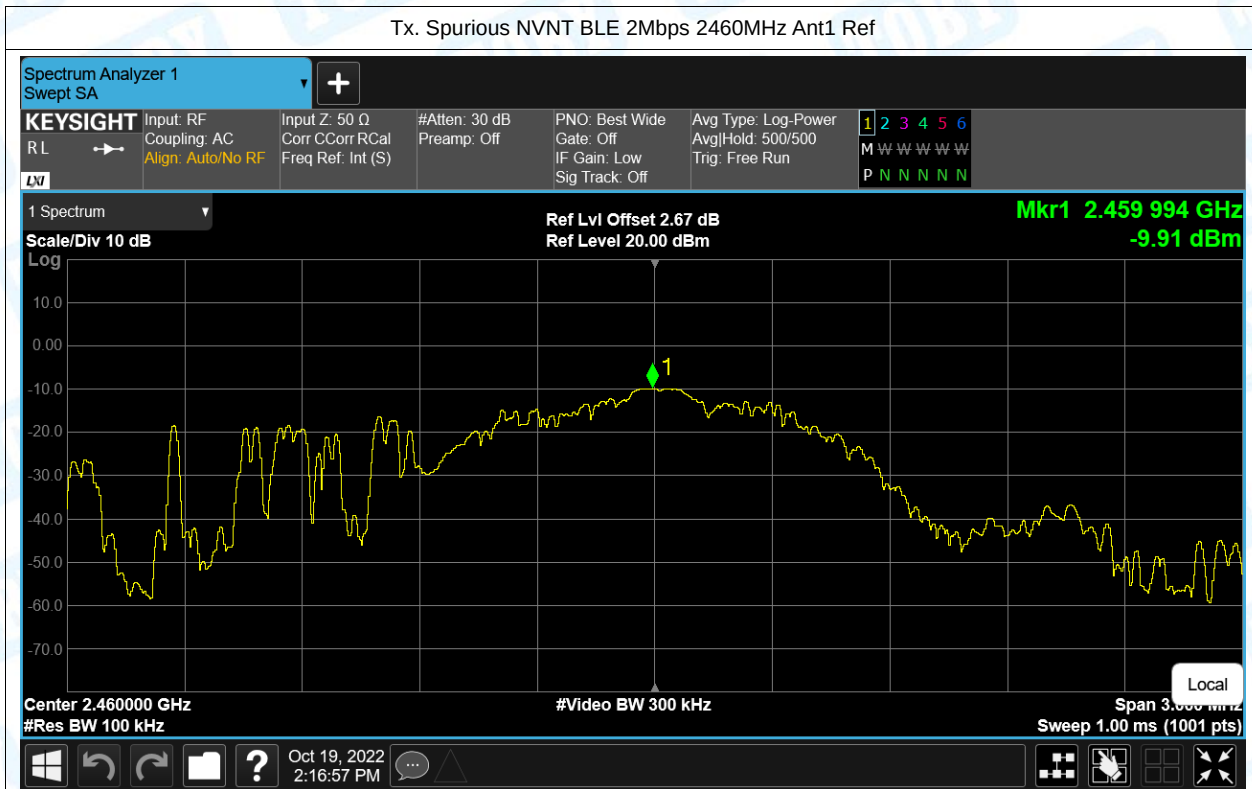


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2Mbps	2420	Ant1	-26.32	-20	Pass
NVNT	BLE 2Mbps	2440	Ant1	-31.43	-20	Pass
NVNT	BLE 2Mbps	2460	Ant1	-27.54	-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	2.4GHz	2420	Ant1	2310	-48.87	2	48.39	Peak	74	Pass
NVNT	2.4GHz	2420	Ant1	2310	-58.69	2	38.57	Average	54	Pass
NVNT	2.4GHz	2420	Ant1	2364.036	-46.4	2	50.86	Peak	74	Pass
NVNT	2.4GHz	2420	Ant1	2387.976	-57.46	2	39.8	Average	54	Pass
NVNT	2.4GHz	2420	Ant1	2390	-49.33	2	47.93	Peak	74	Pass
NVNT	2.4GHz	2420	Ant1	2390	-58.56	2	38.7	Average	54	Pass
NVNT	2.4GHz	2460	Ant1	2483.5	-50.67	2	46.59	Peak	74	Pass
NVNT	2.4GHz	2460	Ant1	2483.5	-58.17	2	39.09	Average	54	Pass
NVNT	2.4GHz	2460	Ant1	2495.028	-46.37	2	50.89	Peak	74	Pass
NVNT	2.4GHz	2460	Ant1	2491.332	-58	2	39.26	Average	54	Pass
NVNT	2.4GHz	2460	Ant1	2500	-49.56	2	47.7	Peak	74	Pass
NVNT	2.4GHz	2460	Ant1	2500	-58.41	2	38.85	Average	54	Pass

