

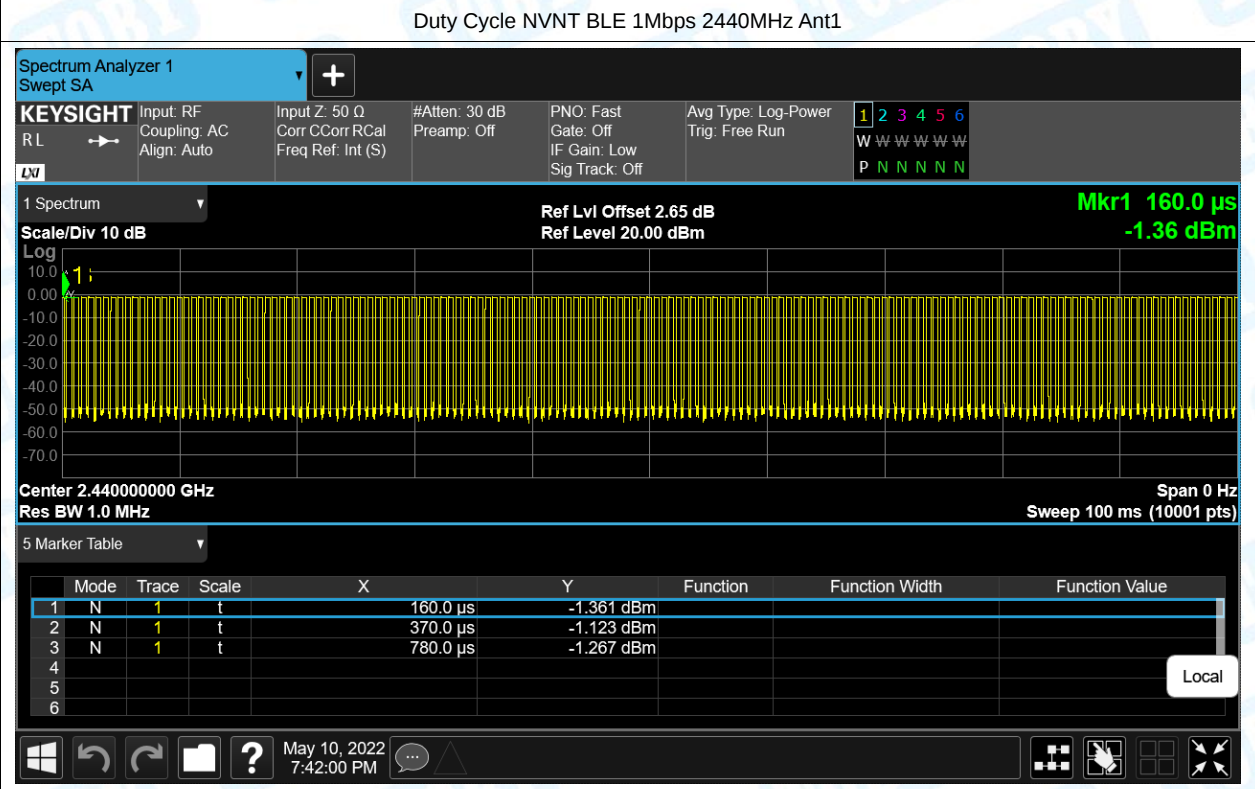
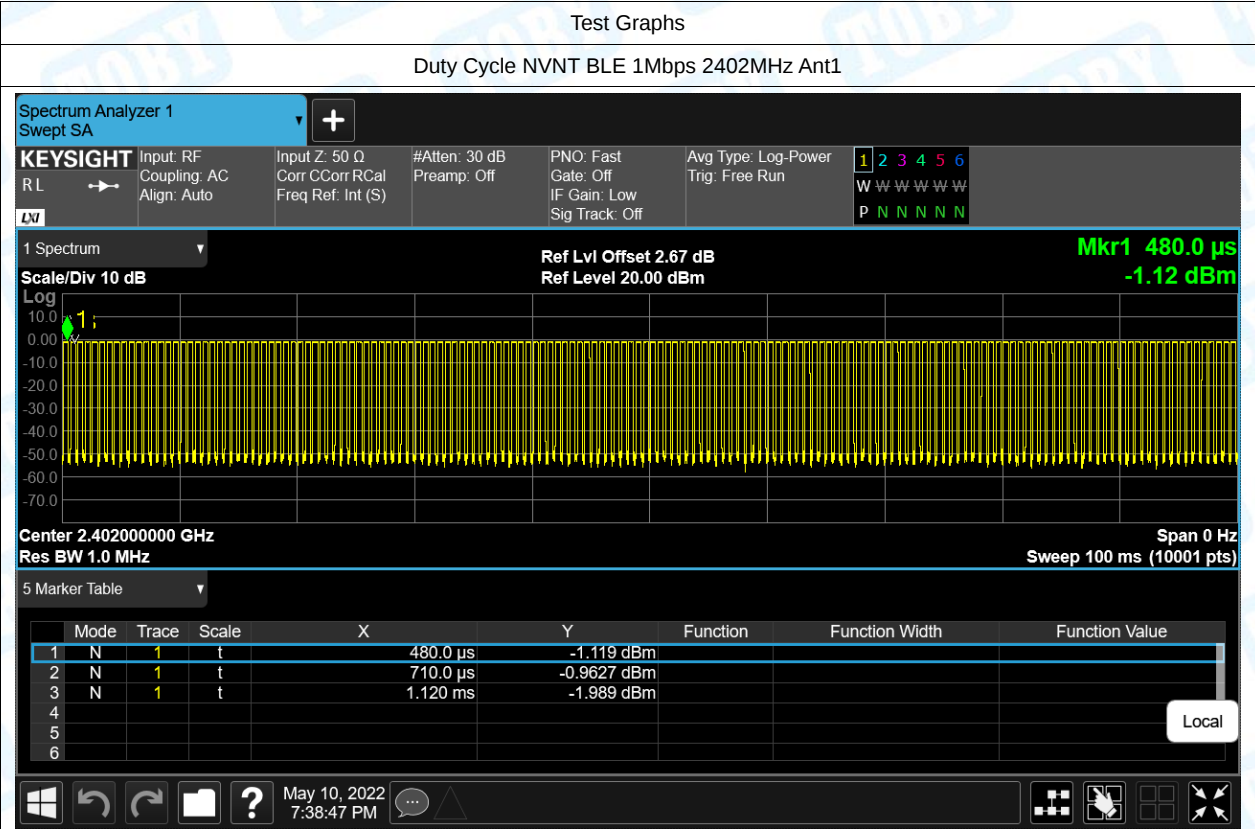
RF Test Data for Bluetooth LE

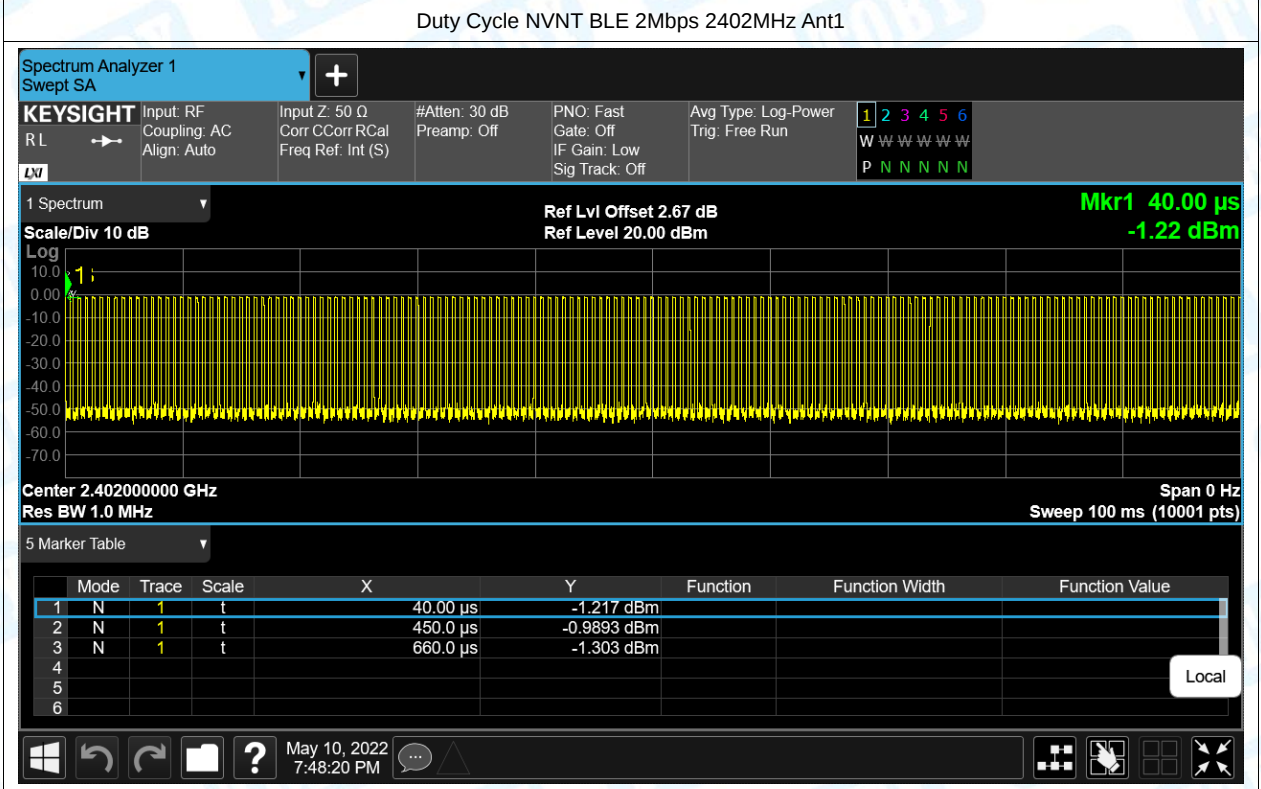
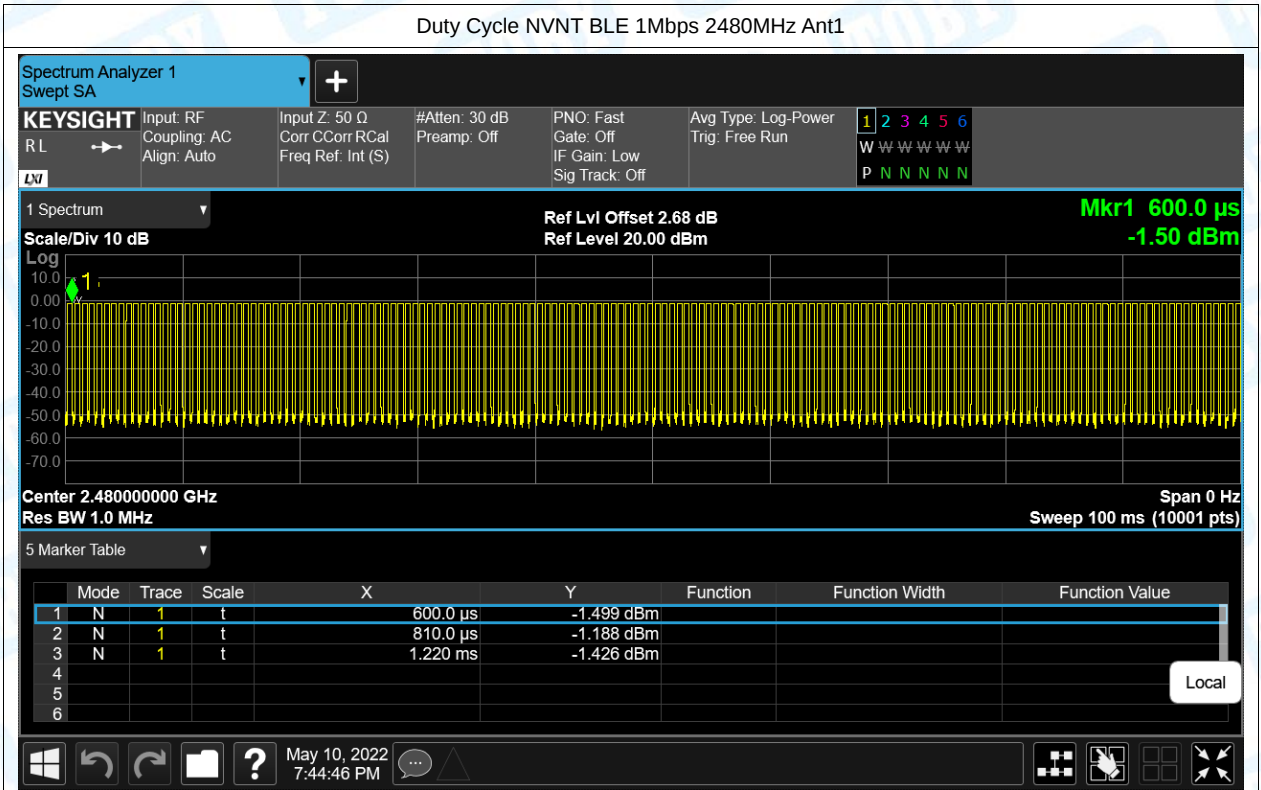
(Conducted Measurements)

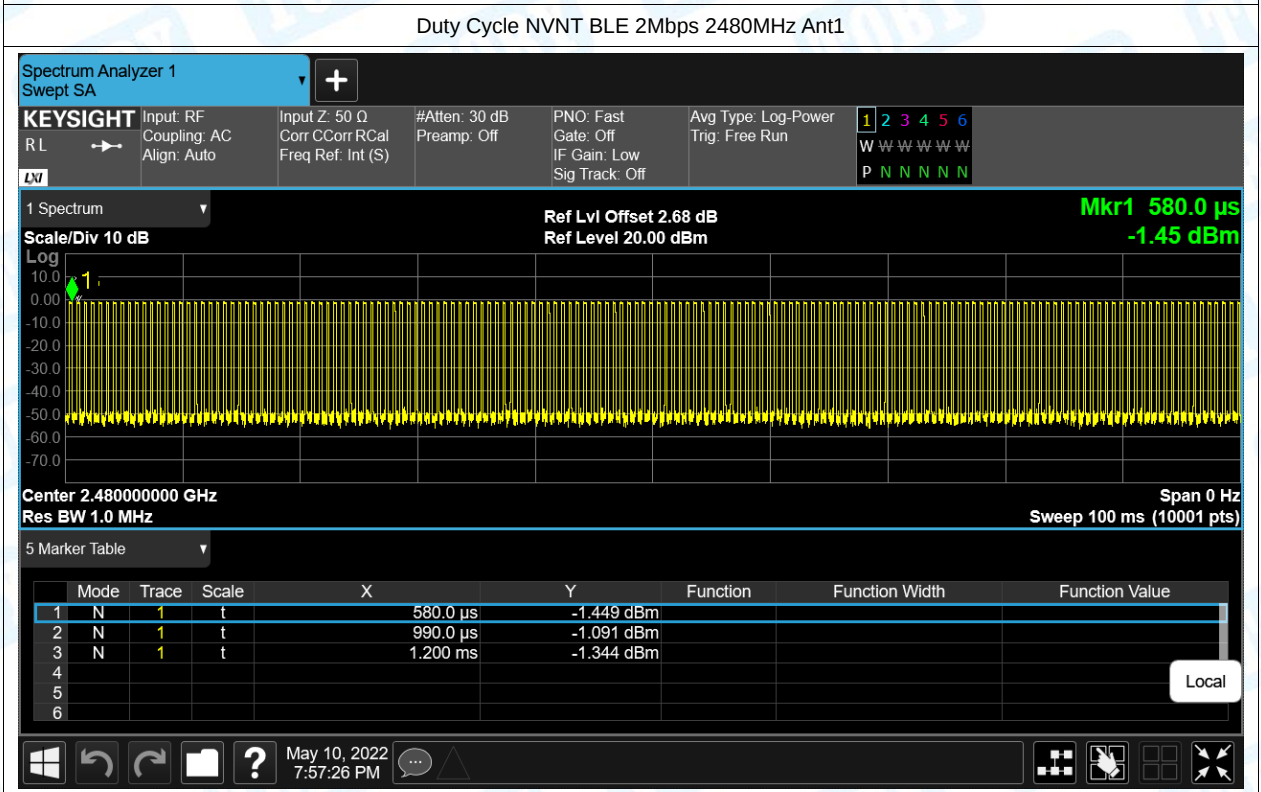
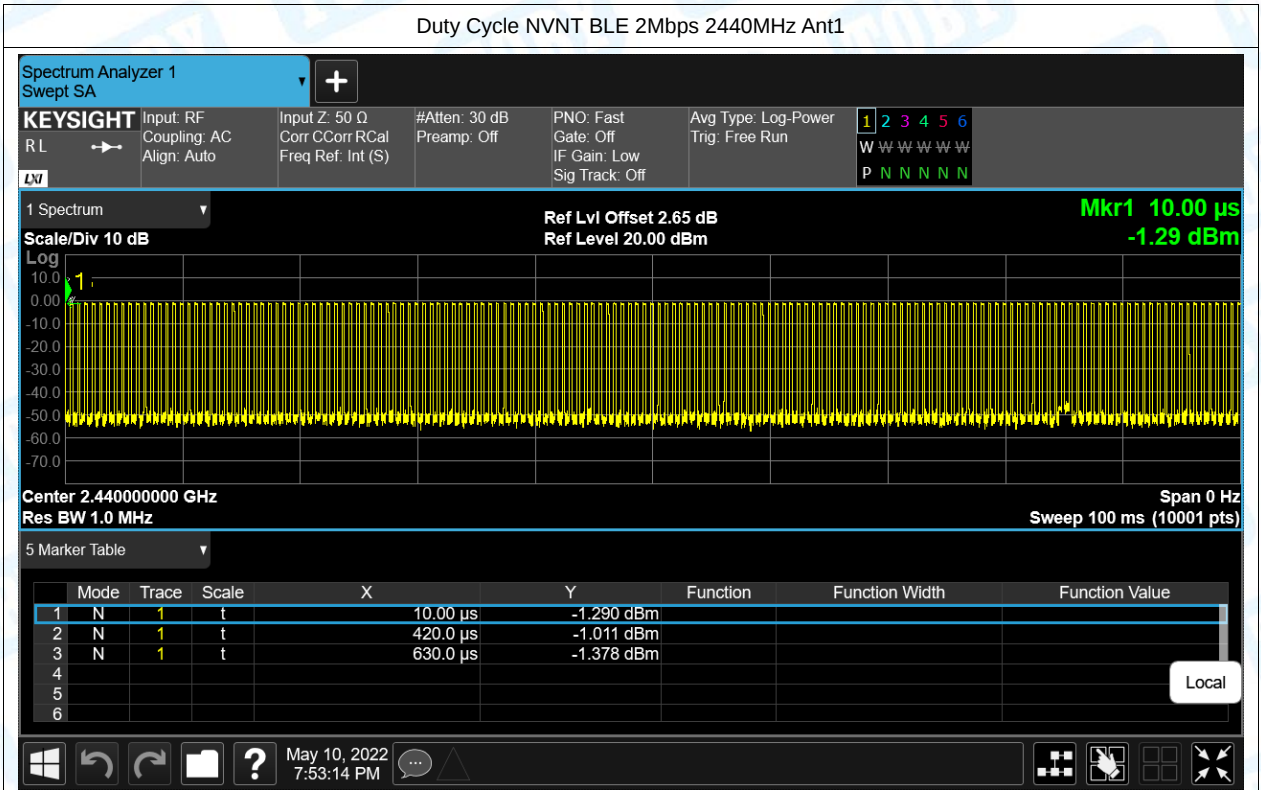
General Description of EUT	
Product Name:	Portable Power Station
Test Model:	AP-SS-008
Sample ID:	202204-0413-1-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	DC 5V
Test Engineer:	Liufeng
Note: For a more detailed features description, please refer to the report TBR-C-202204-0413-4.	

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	66.76	1.75	2.44
NVNT	BLE 1Mbps	2440	Ant1	66.74	1.76	2.44
NVNT	BLE 1Mbps	2480	Ant1	66.71	1.76	2.44
NVNT	BLE 2Mbps	2402	Ant1	35.76	4.47	4.76
NVNT	BLE 2Mbps	2440	Ant1	35.69	4.47	4.76
NVNT	BLE 2Mbps	2480	Ant1	35.68	4.48	4.76

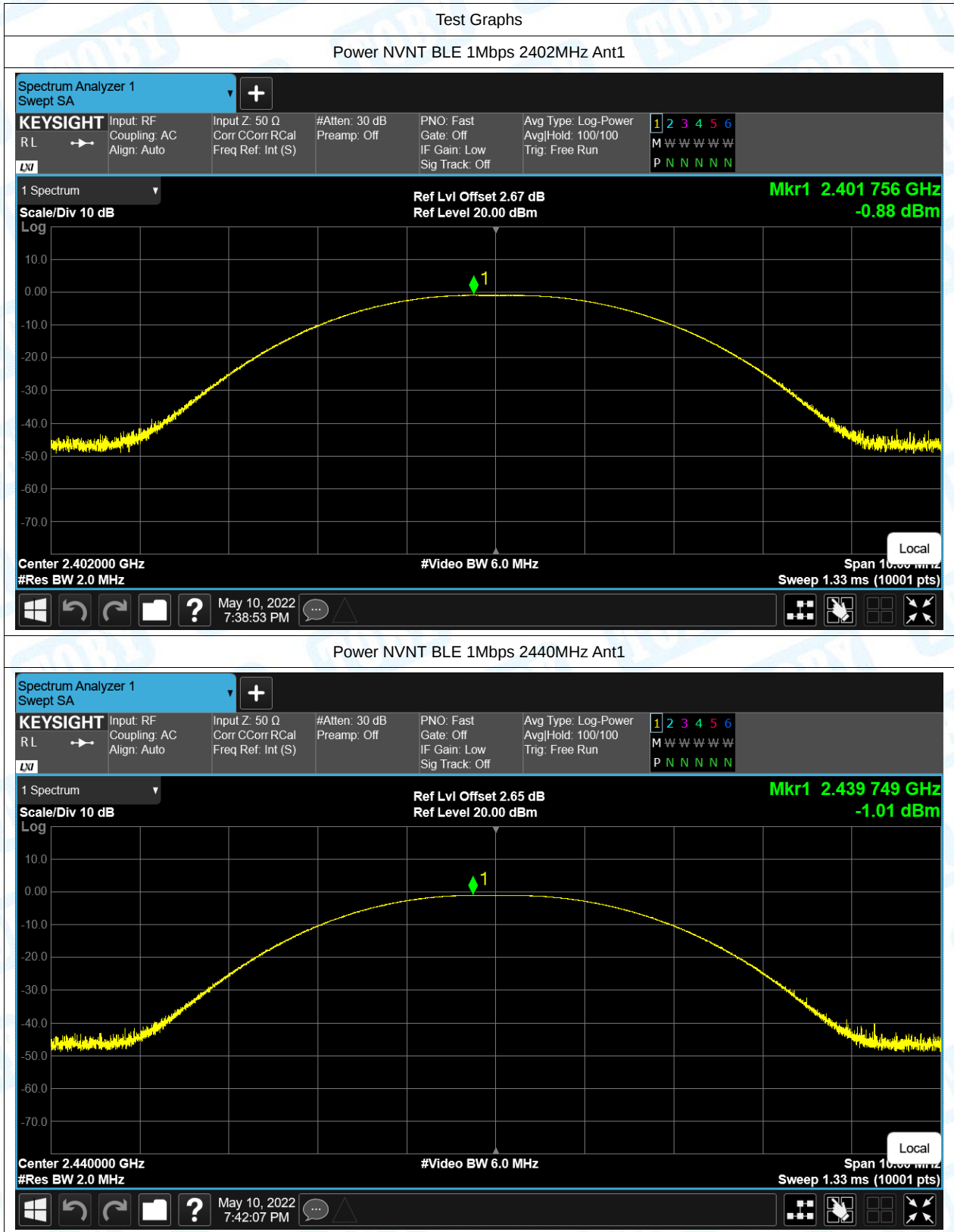


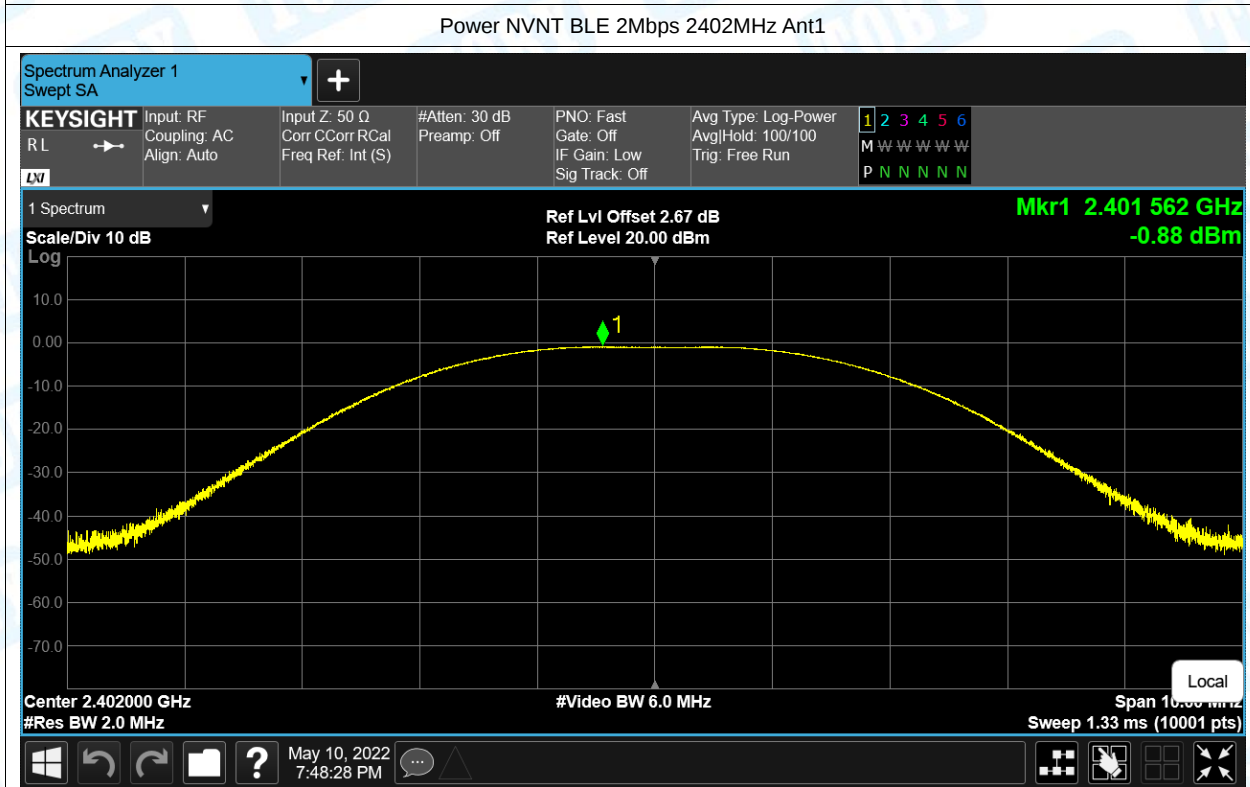
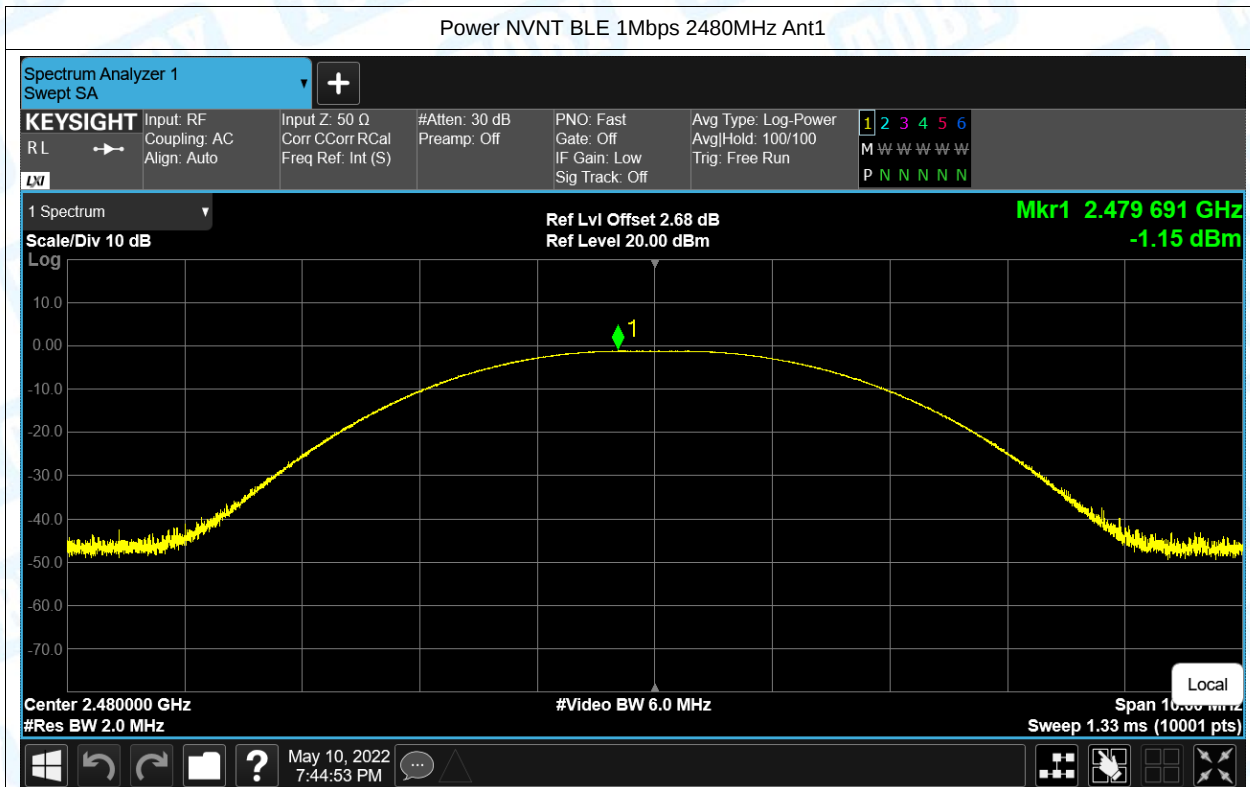




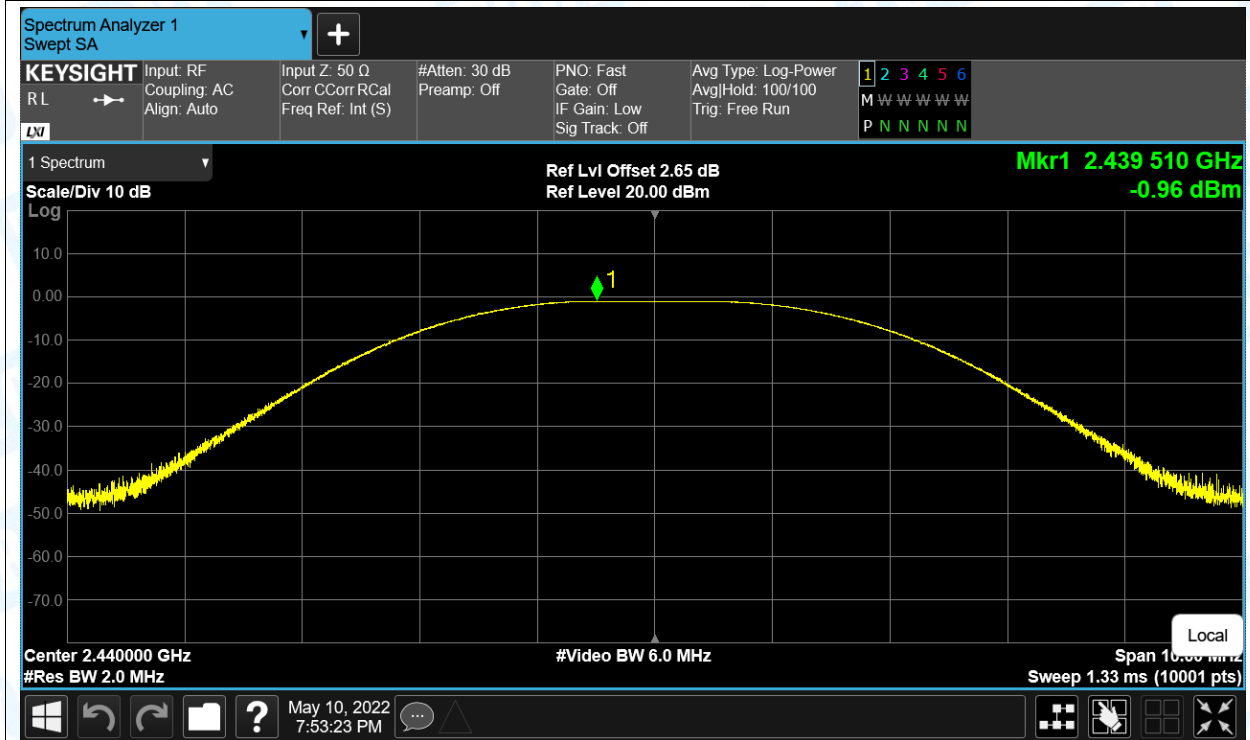
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-0.88	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-1.011	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-1.154	30	Pass
NVNT	BLE 2Mbps	2402	Ant1	-0.881	30	Pass
NVNT	BLE 2Mbps	2440	Ant1	-0.956	30	Pass
NVNT	BLE 2Mbps	2480	Ant1	-1.015	30	Pass

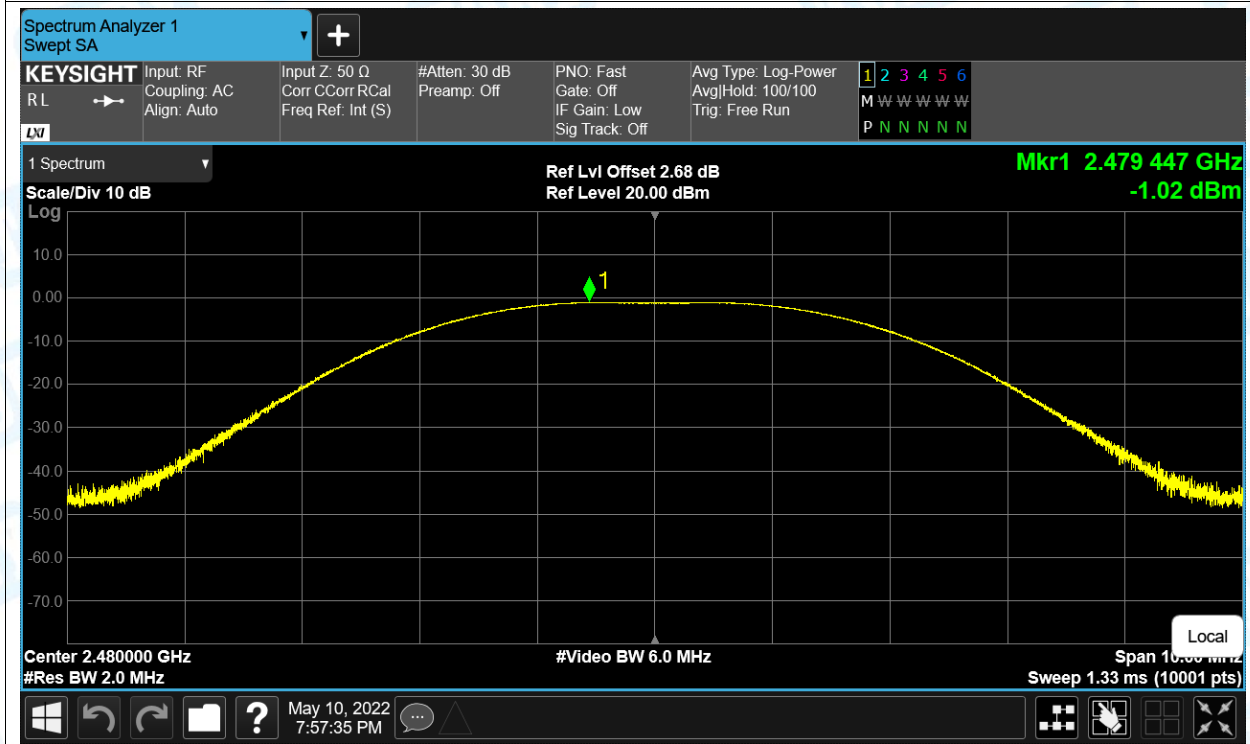




Power NVNT BLE 2Mbps 2440MHz Ant1



Power NVNT BLE 2Mbps 2480MHz Ant1

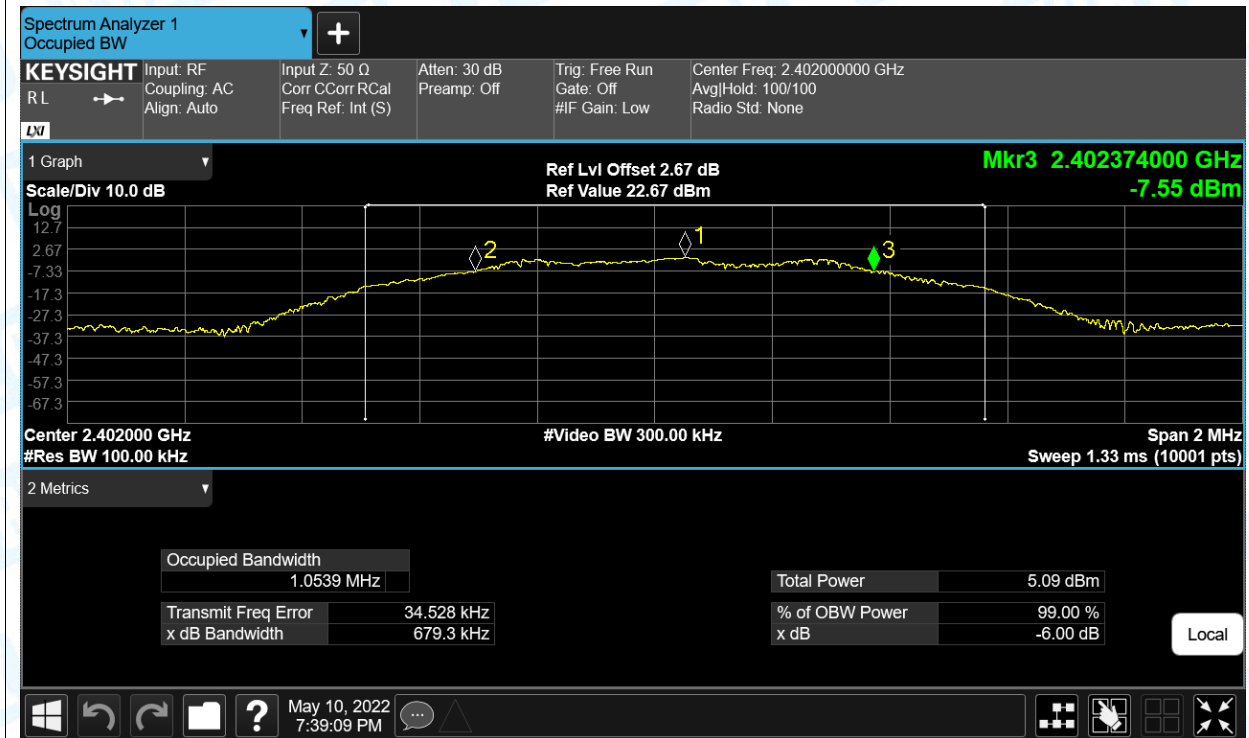


-6dB Bandwidth

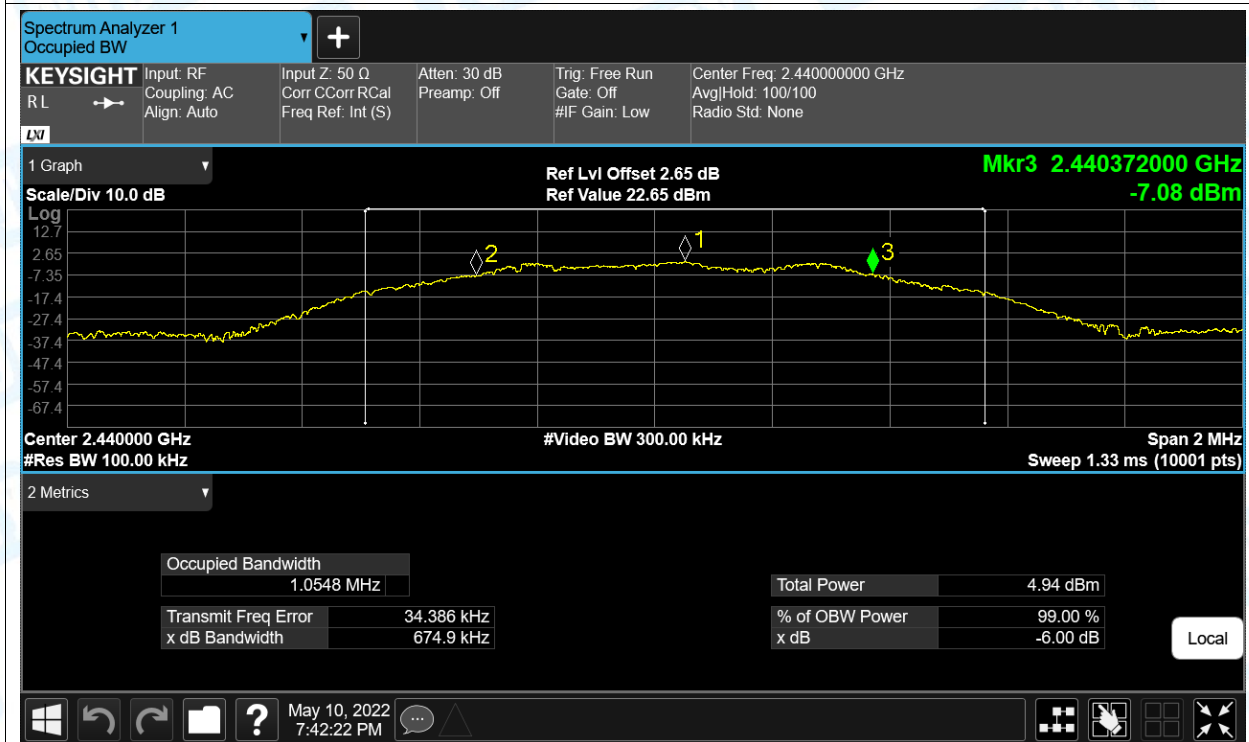
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.68	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.67	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.67	0.5	Pass
NVNT	BLE 2Mbps	2402	Ant1	1.33	0.5	Pass
NVNT	BLE 2Mbps	2440	Ant1	1.19	0.5	Pass
NVNT	BLE 2Mbps	2480	Ant1	1.23	0.5	Pass

Test Graphs

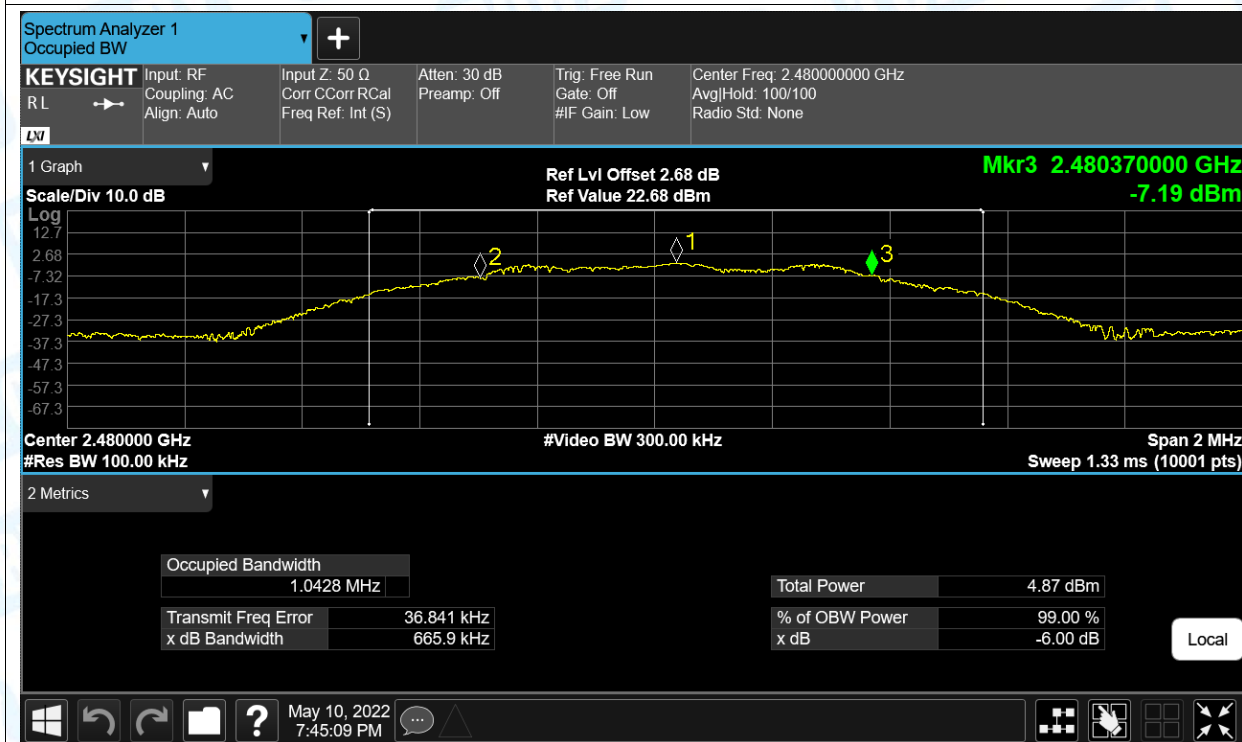
-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



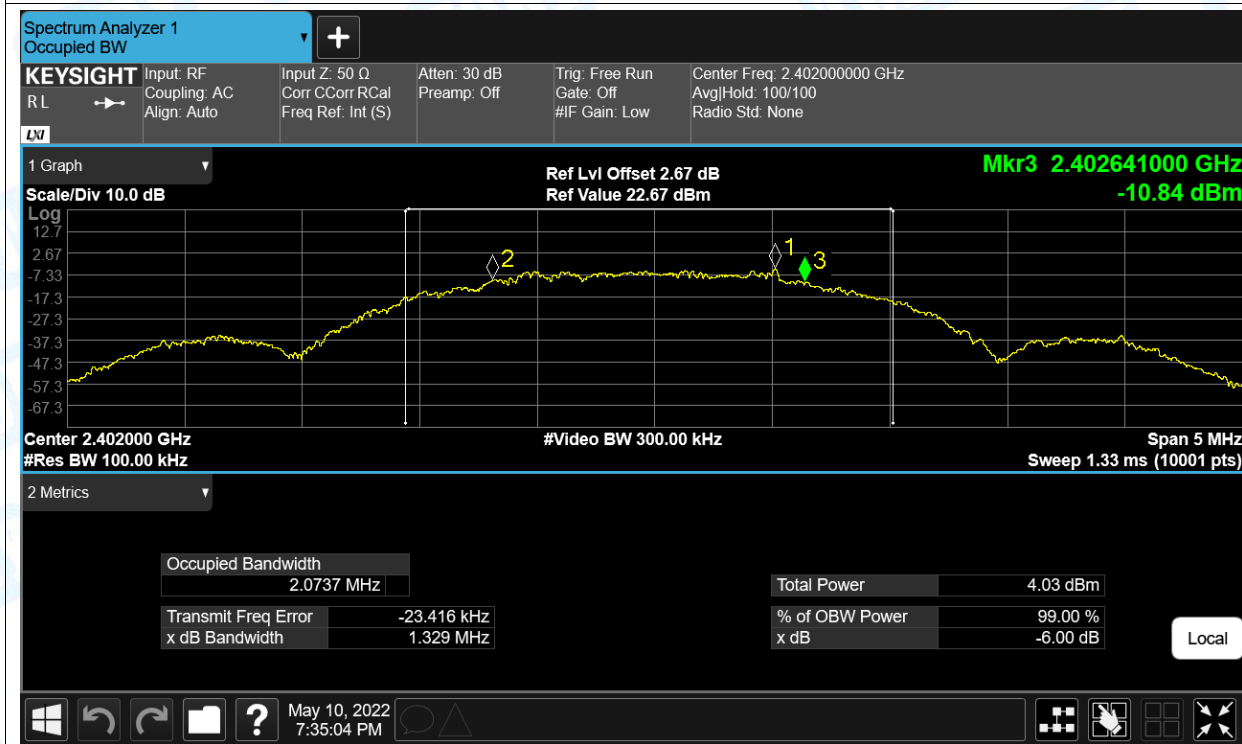
-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1

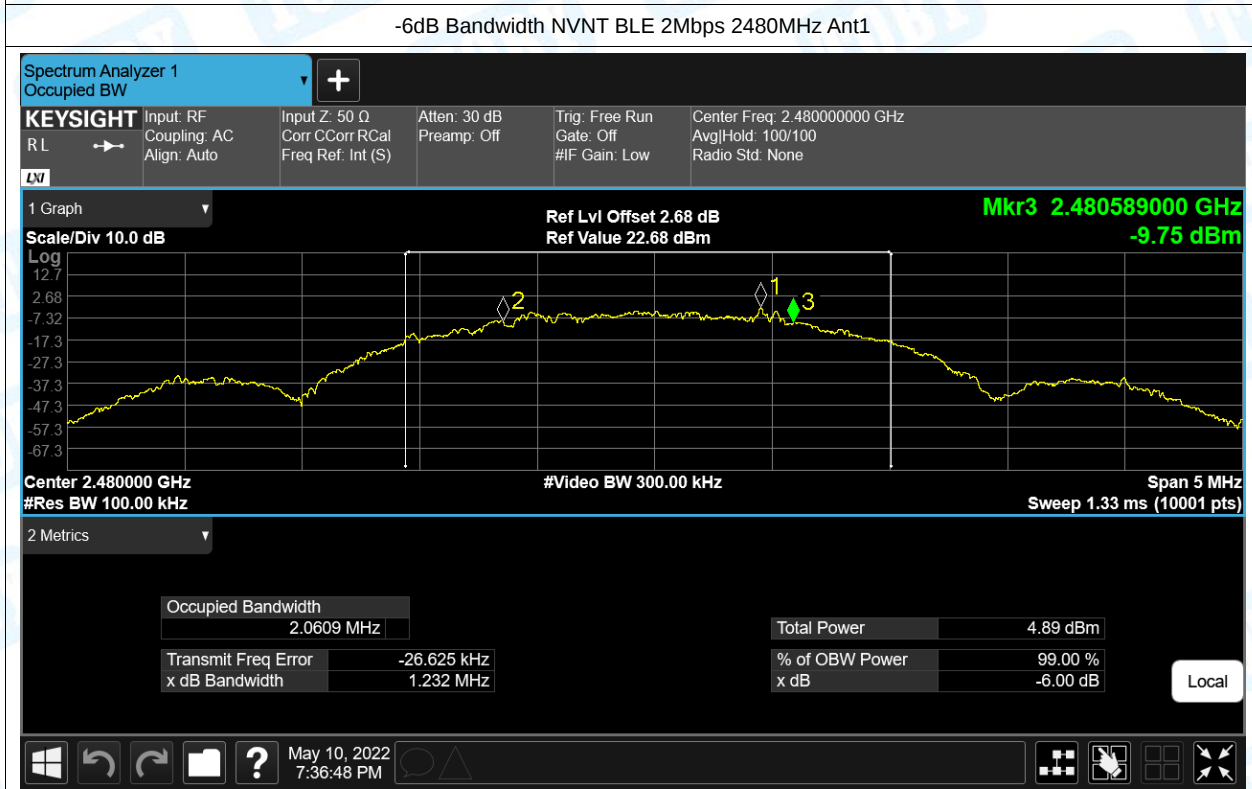


-6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



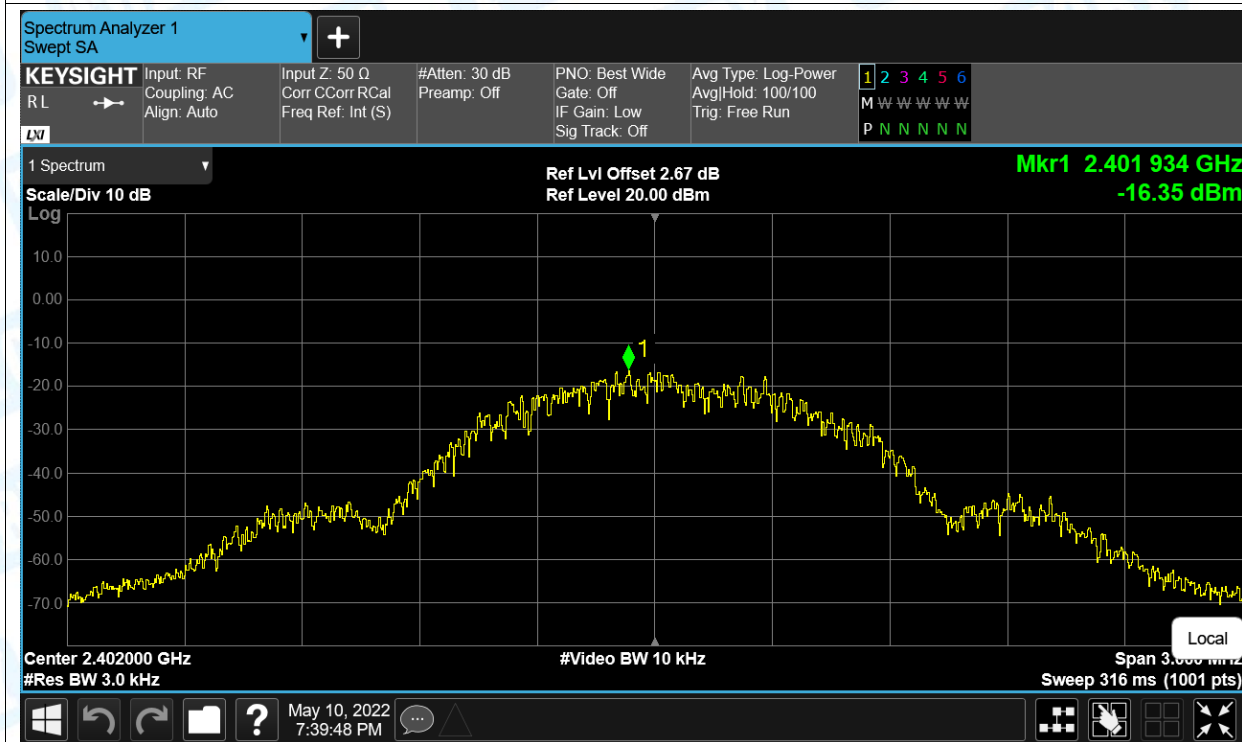


Maximum Power Spectral Density Level

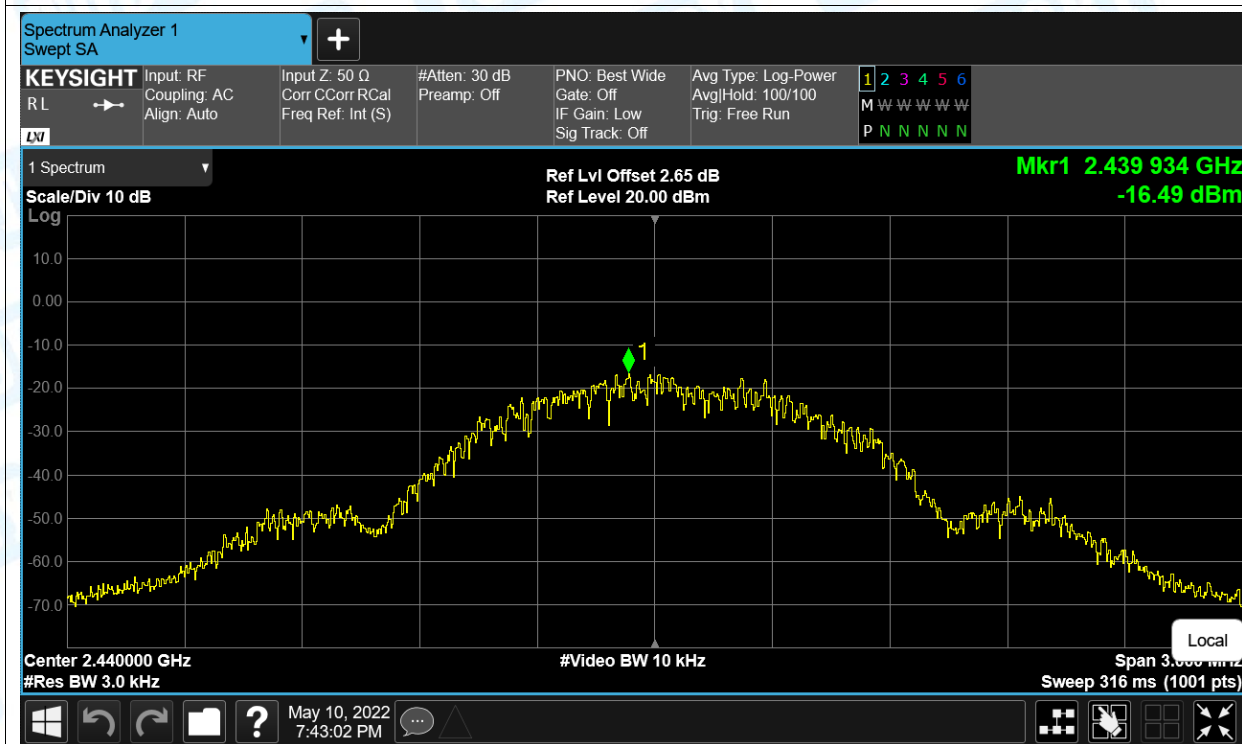
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm) /3KHz	Limit (dBm) /3KHz	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-16.354	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-16.489	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-16.425	8	Pass
NVNT	BLE 2Mbps	2402	Ant1	-18.762	8	Pass
NVNT	BLE 2Mbps	2440	Ant1	-19.162	8	Pass
NVNT	BLE 2Mbps	2480	Ant1	-19.036	8	Pass

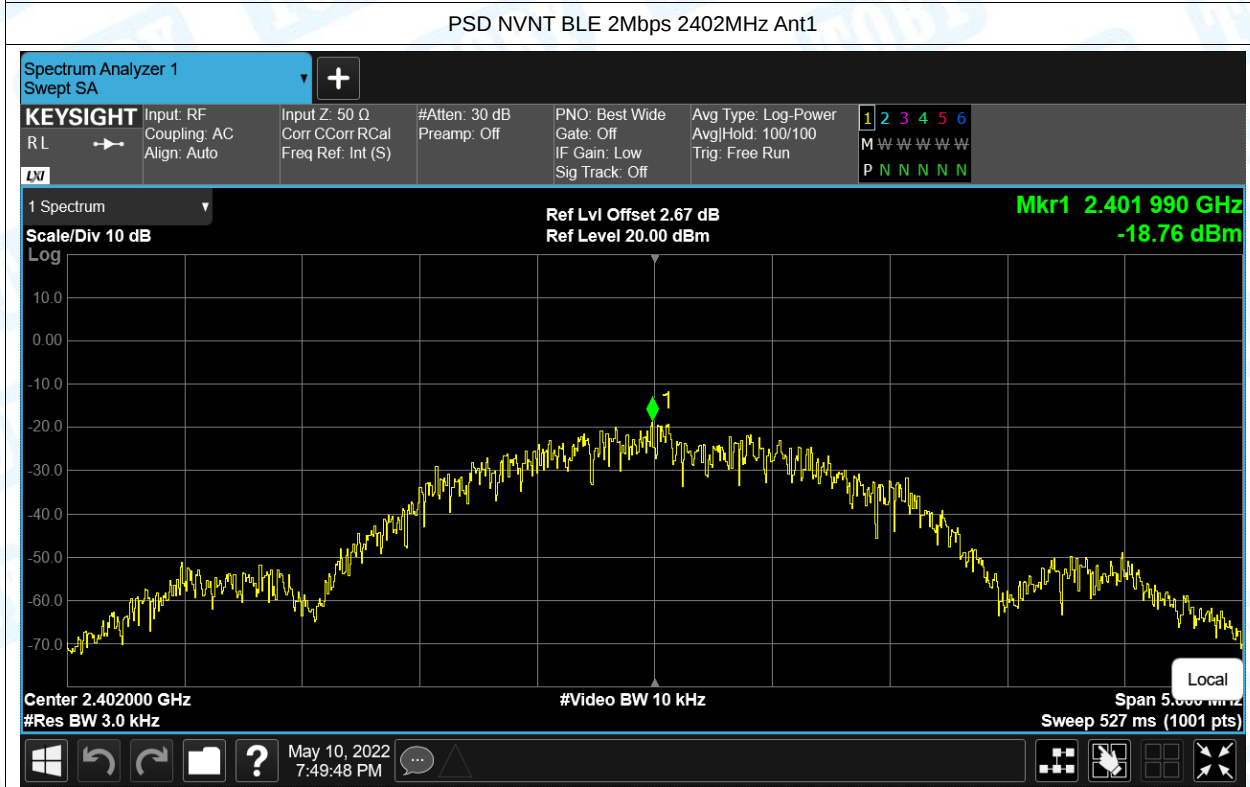
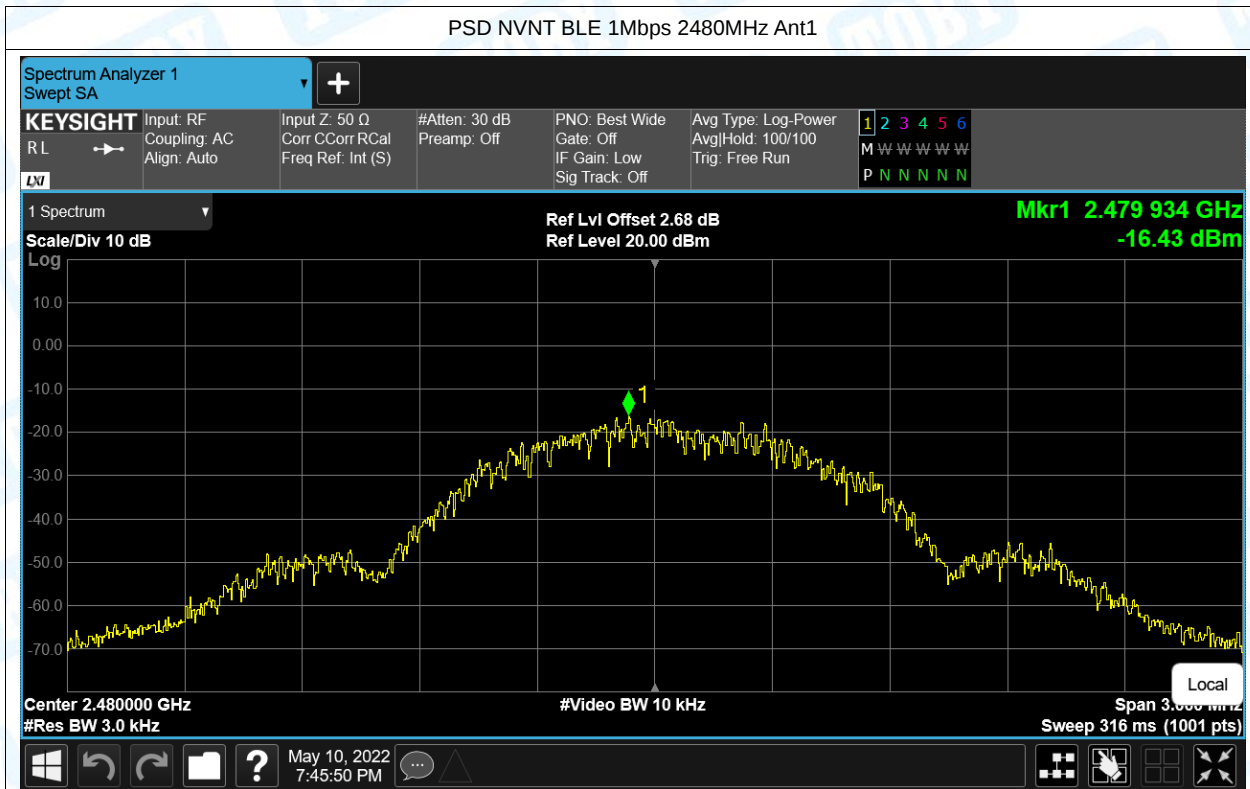
Test Graphs

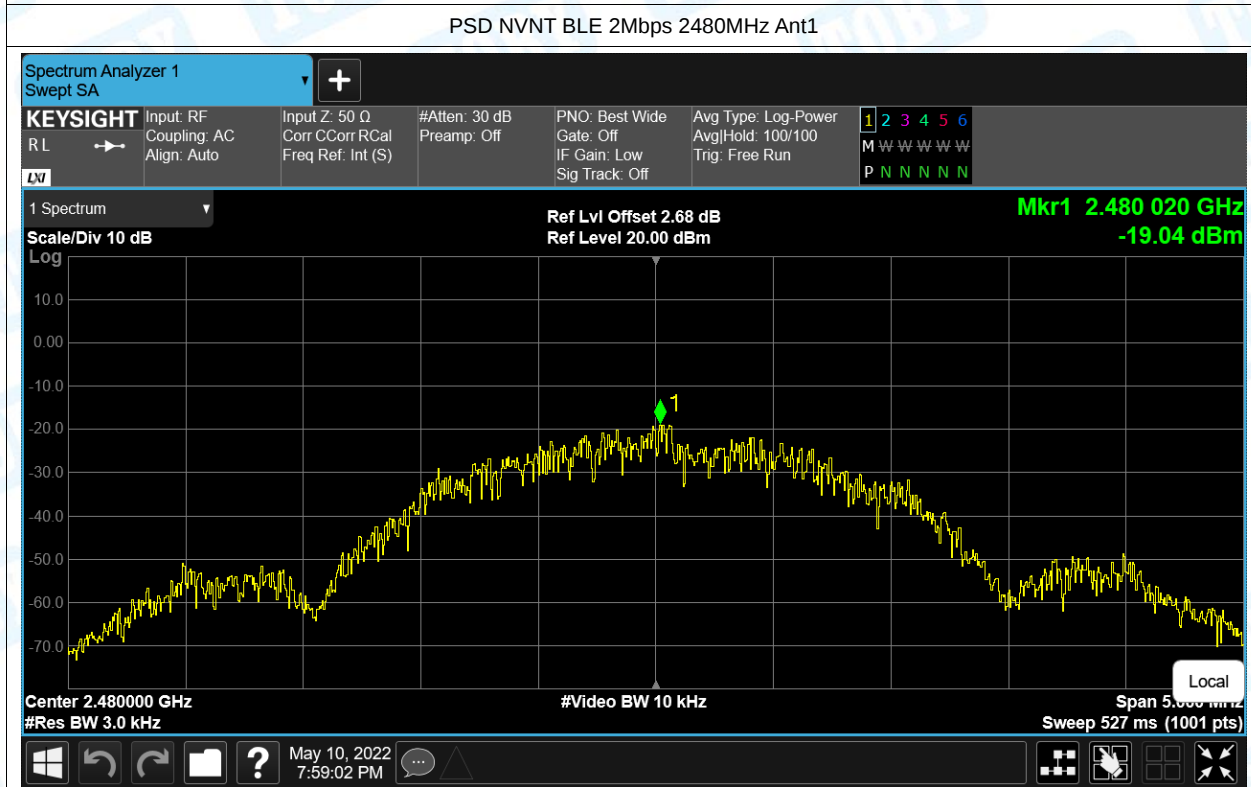
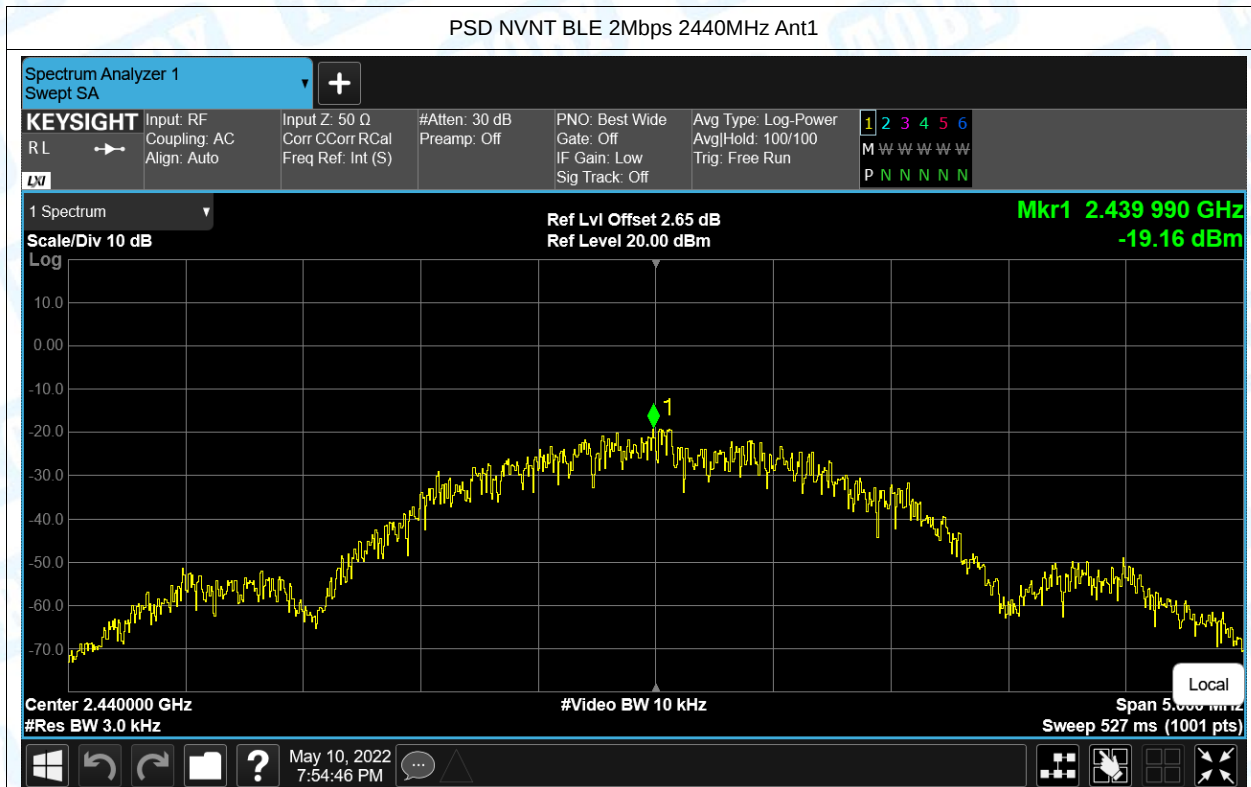
PSD NVNT BLE 1Mbps 2402MHz Ant1



PSD NVNT BLE 1Mbps 2440MHz Ant1

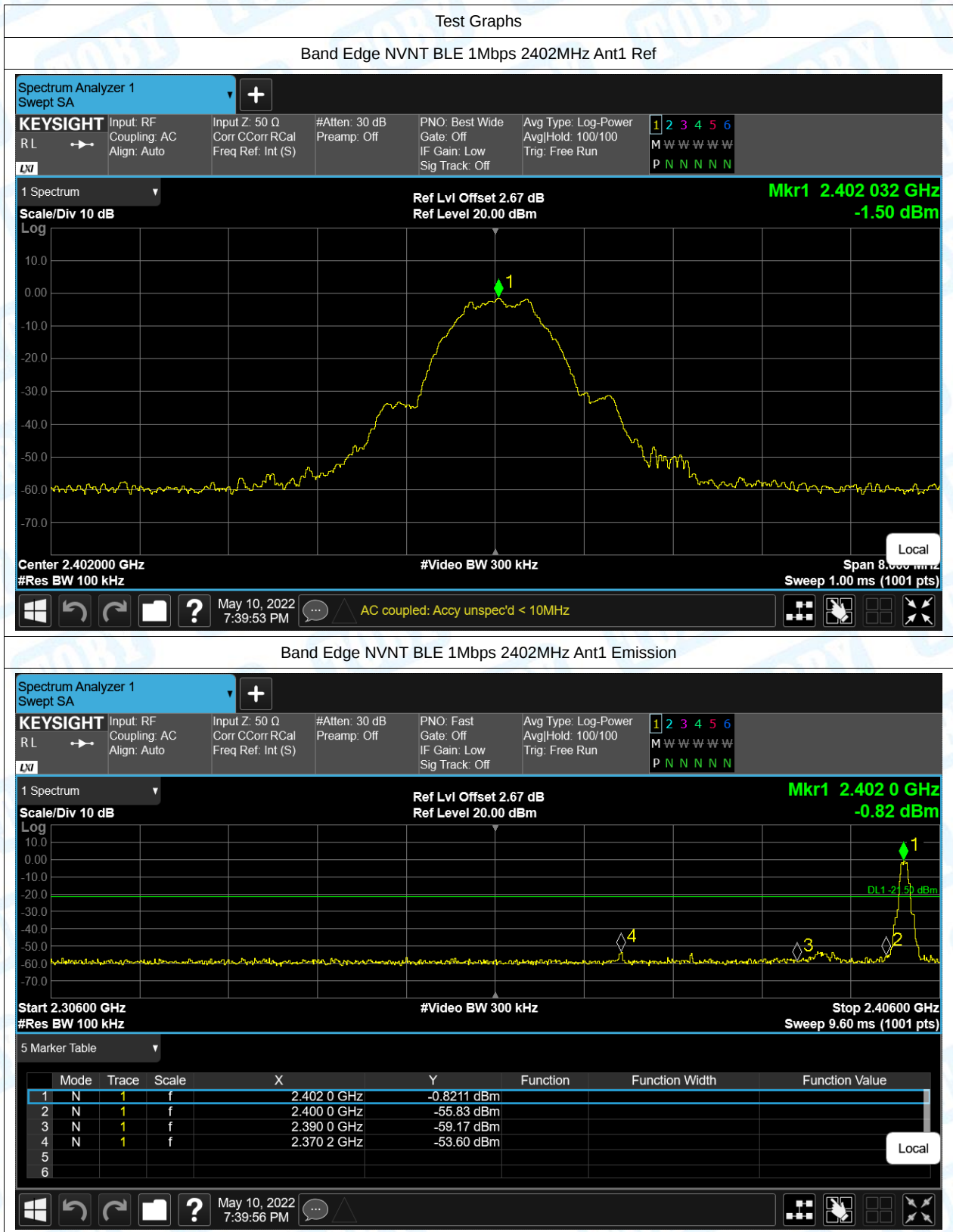


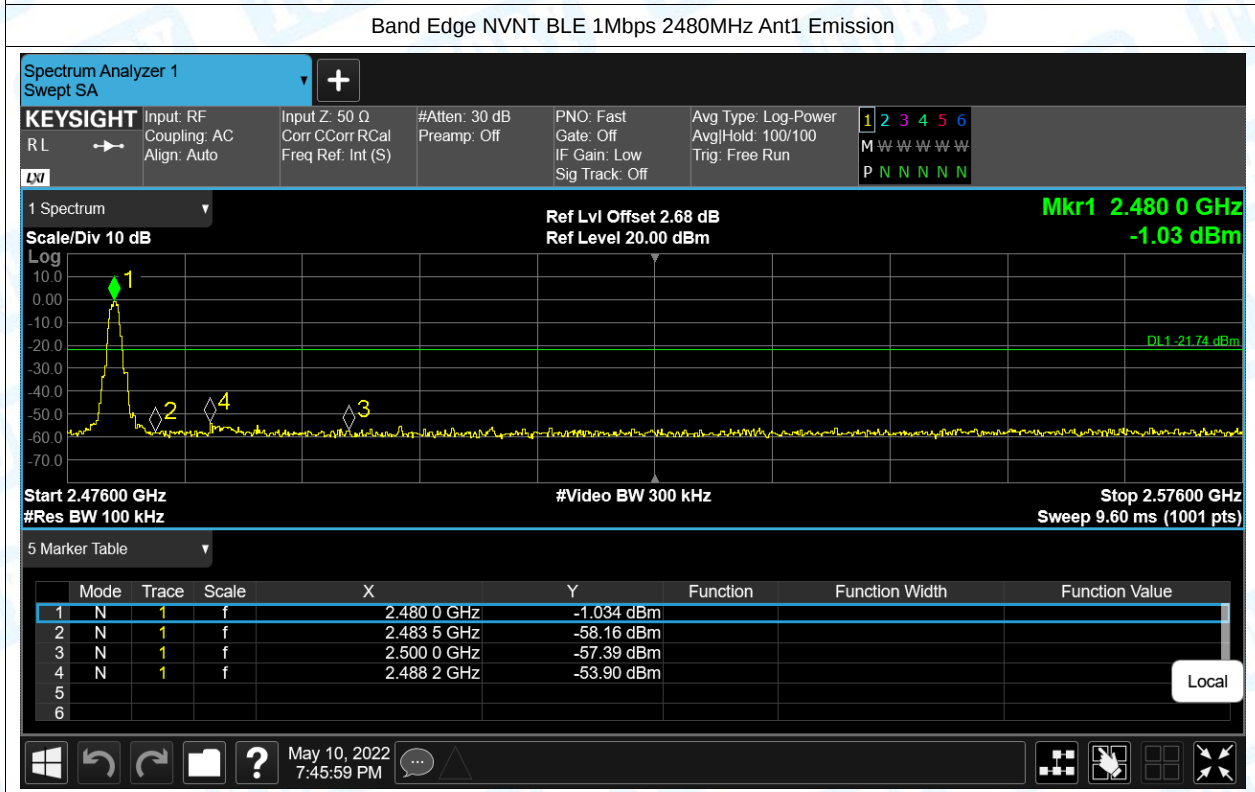
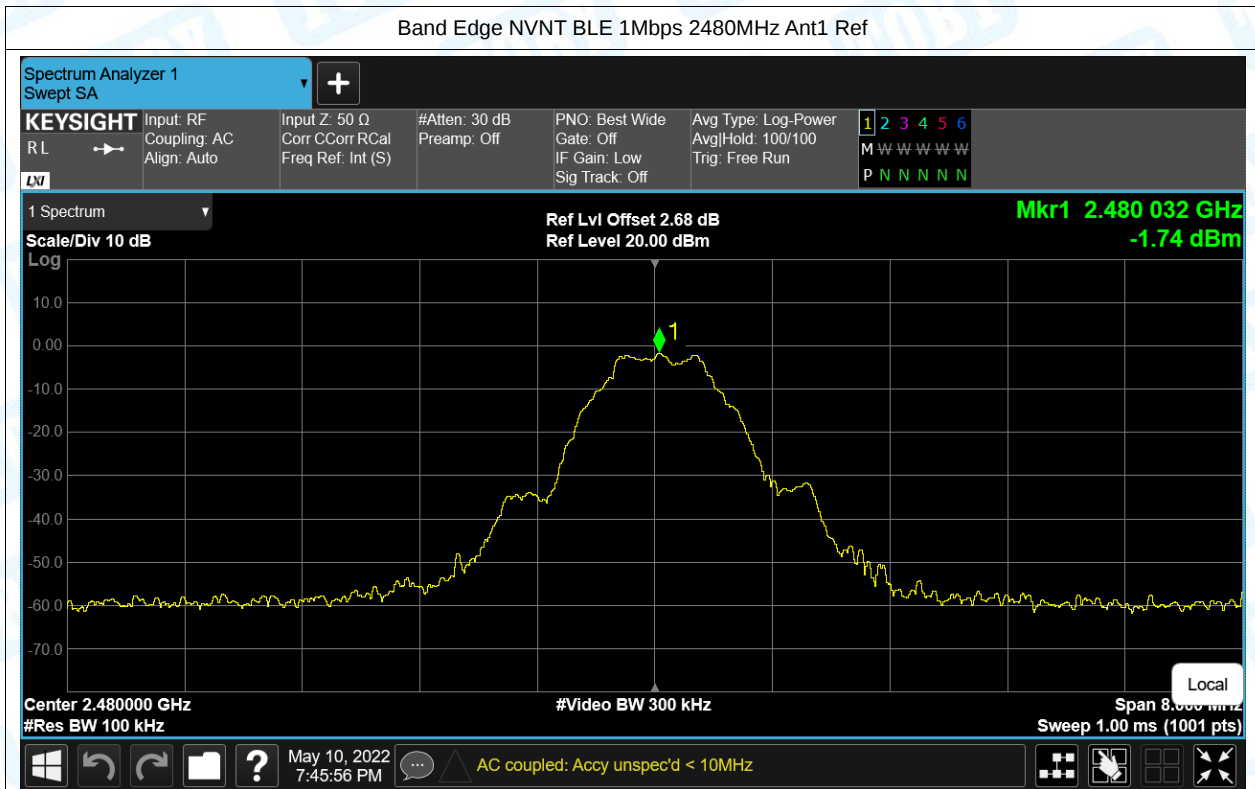


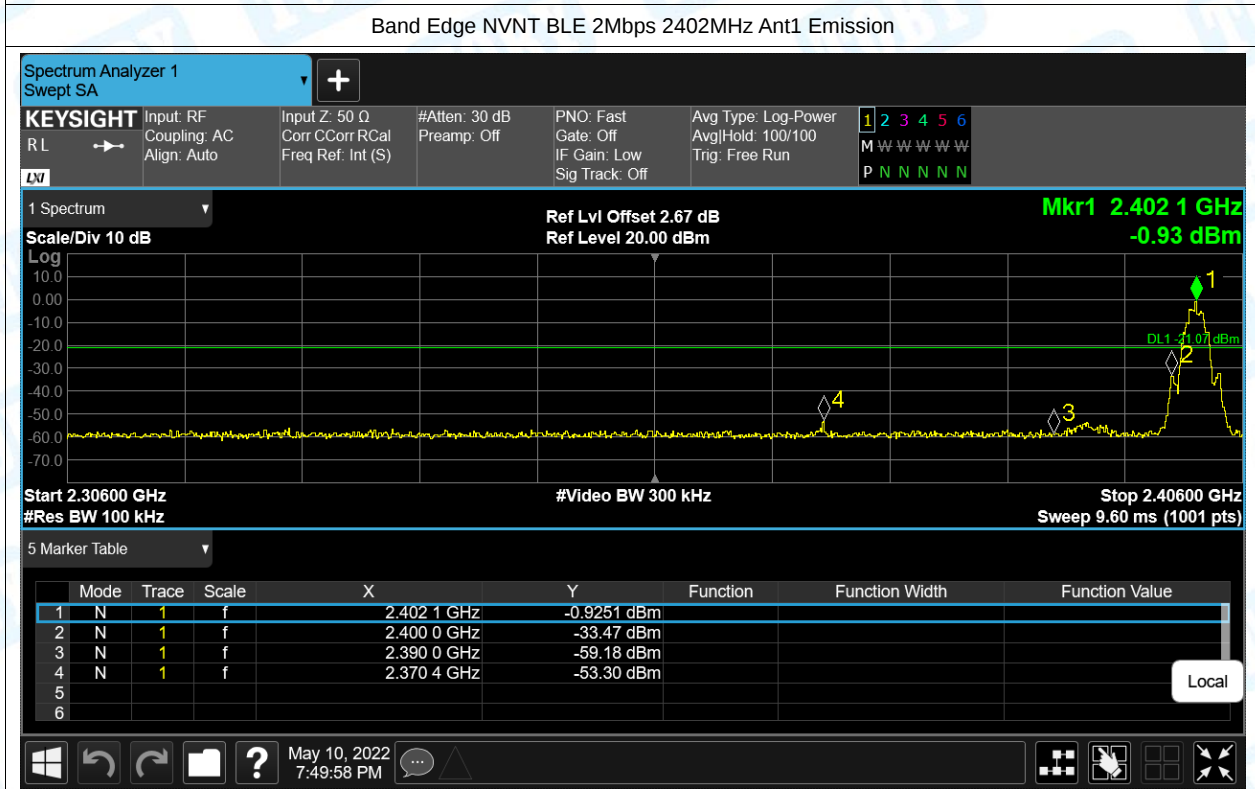
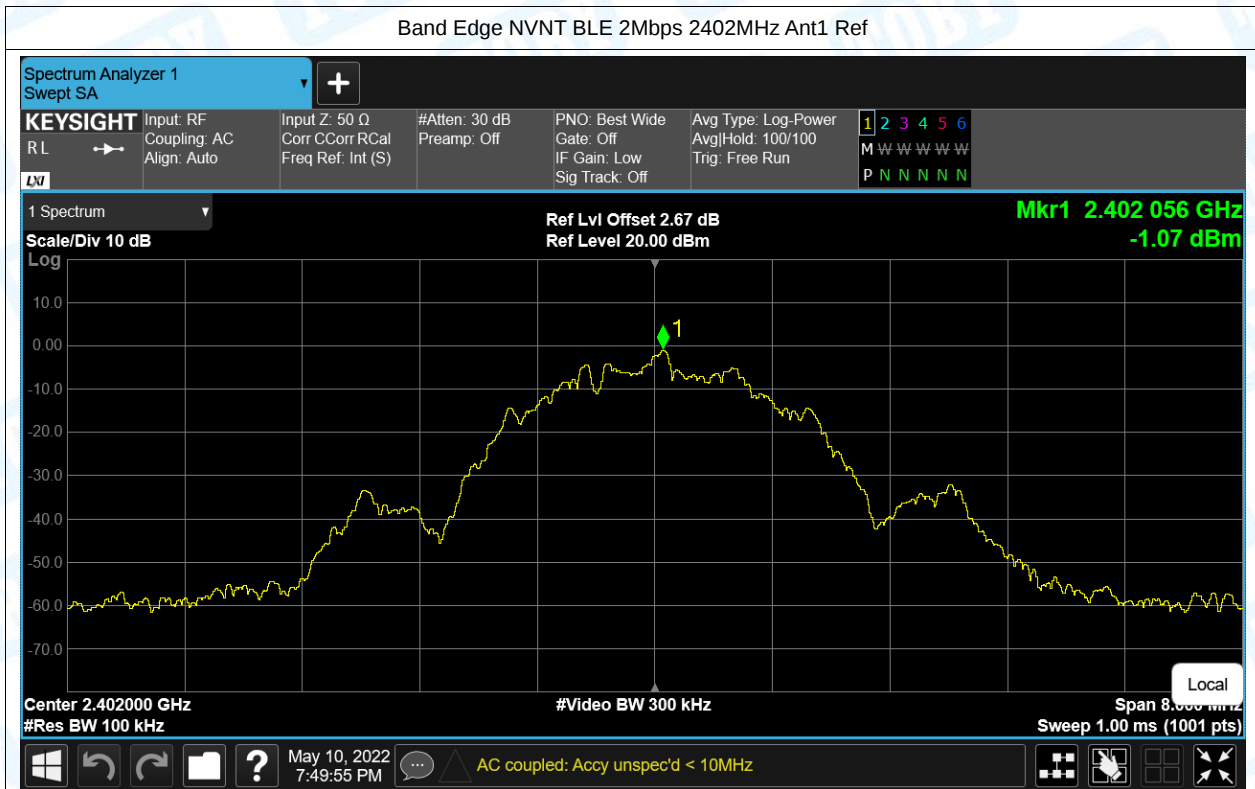


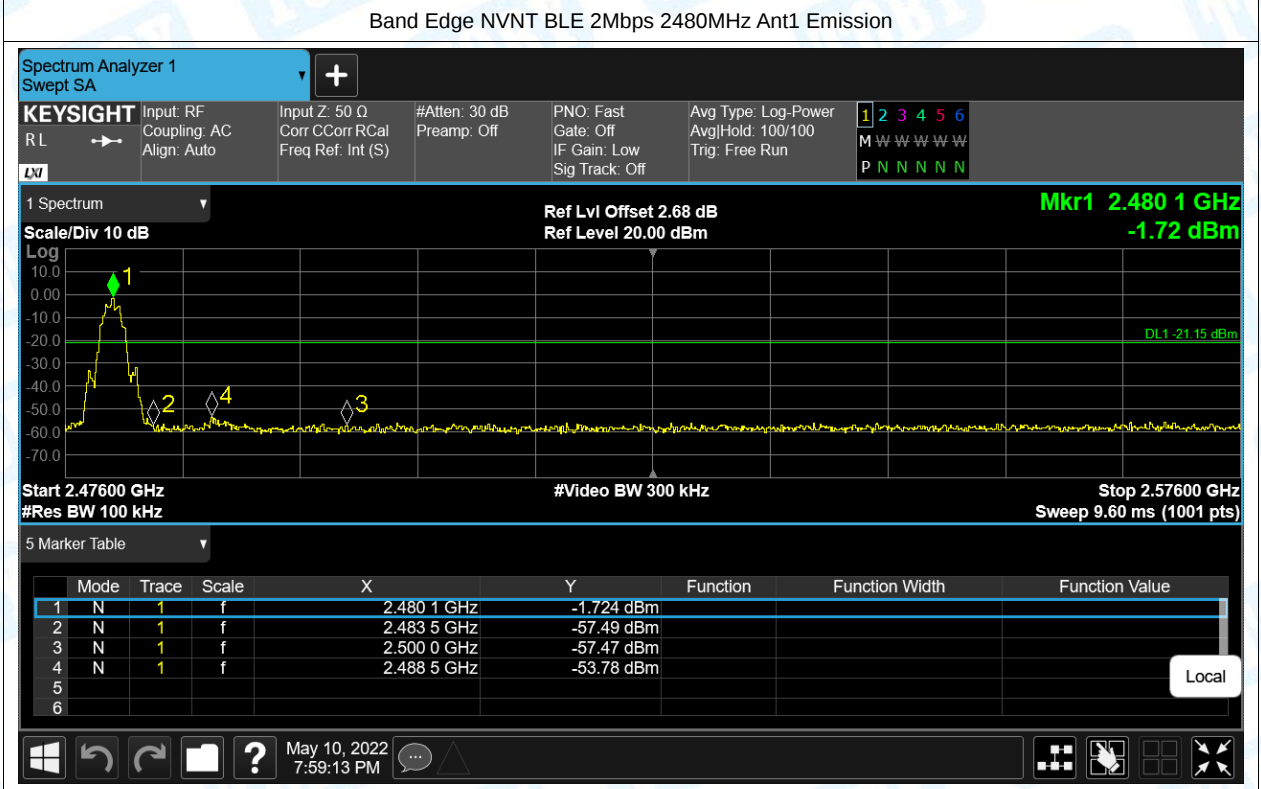
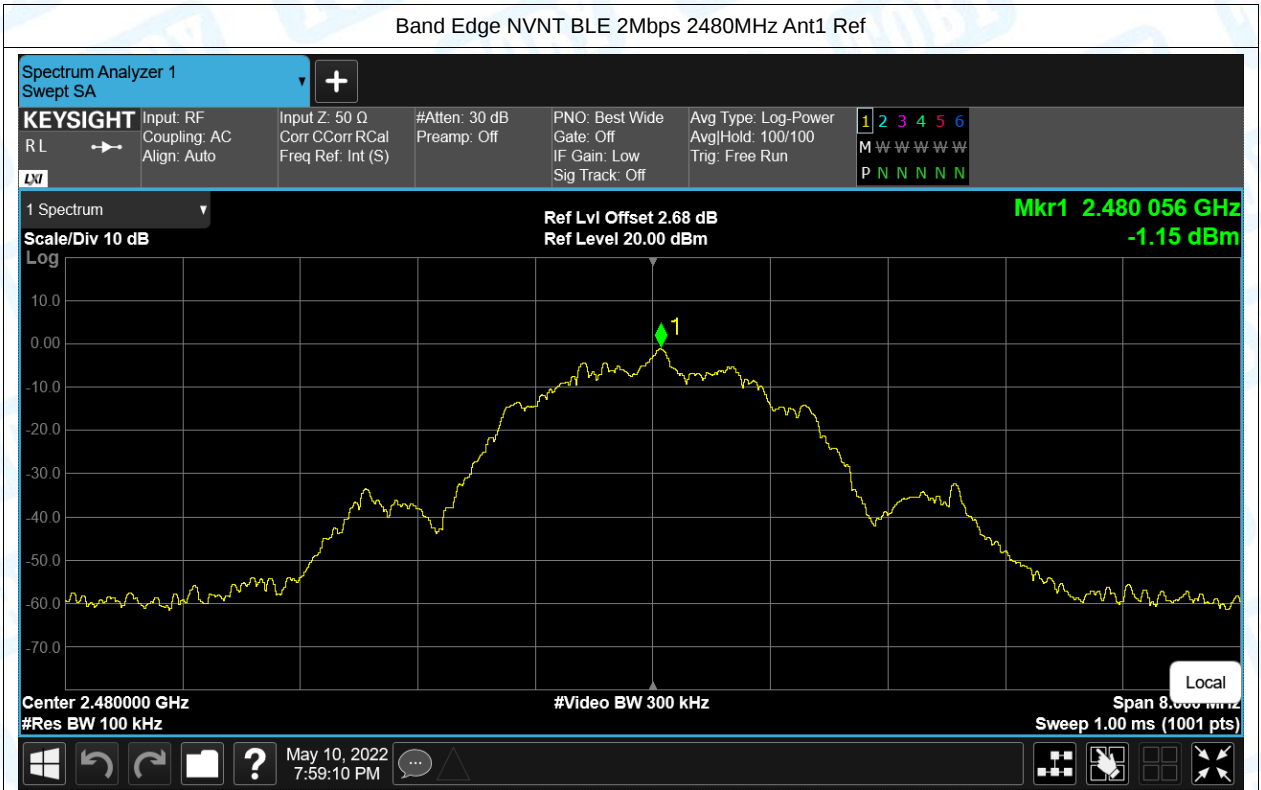
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-52.1	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-52.16	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-52.24	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-52.64	-20	Pass





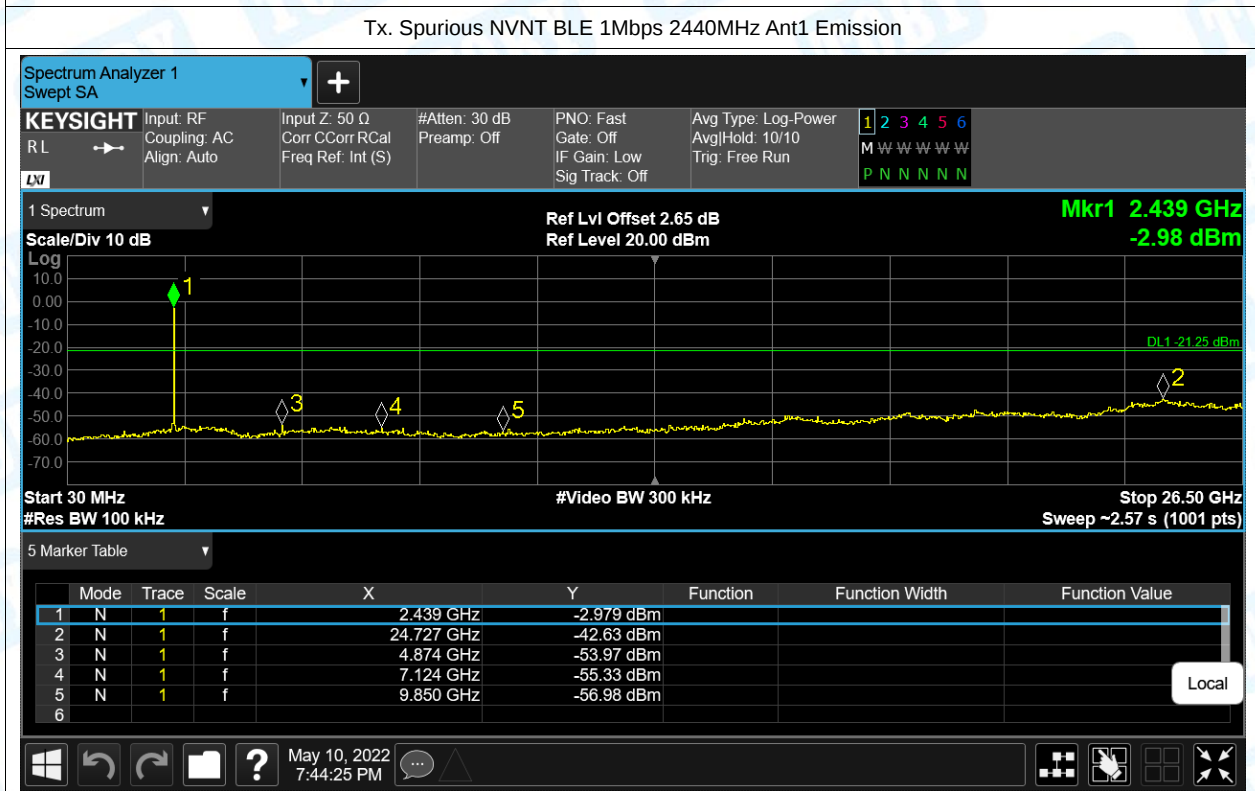
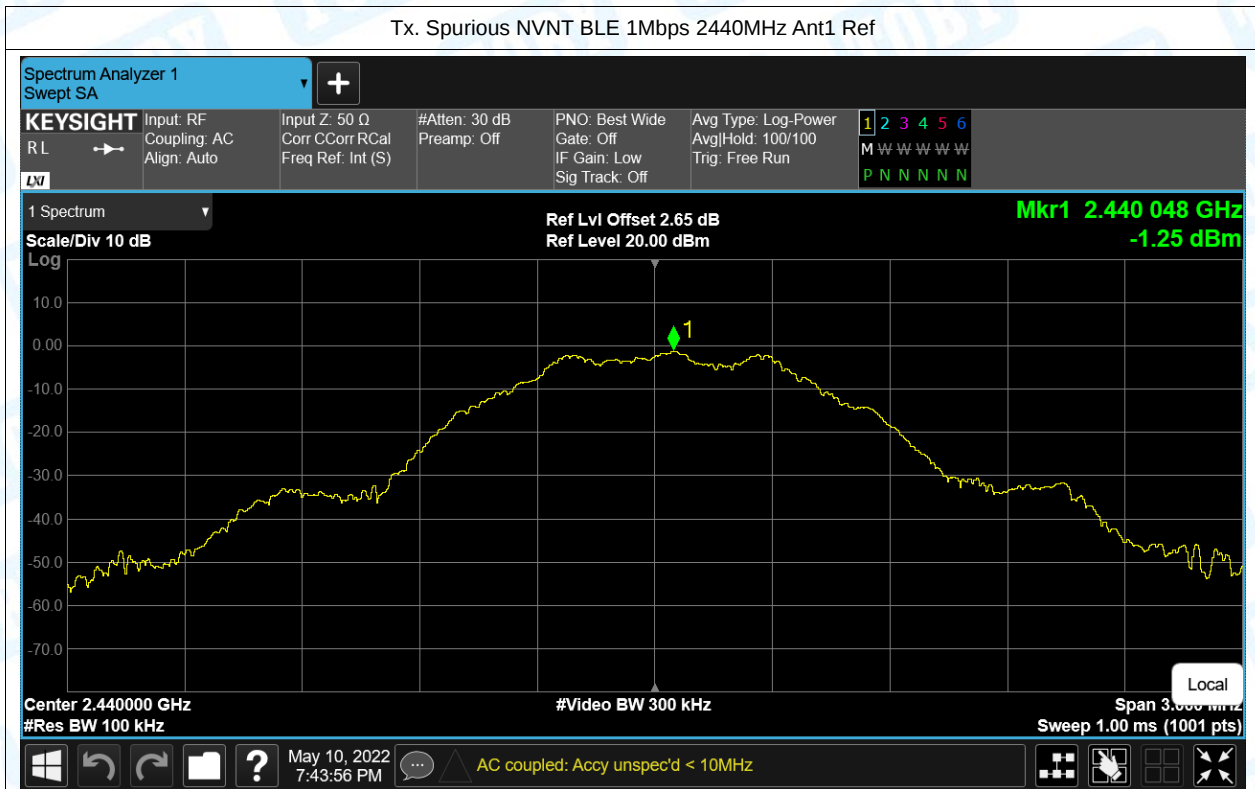


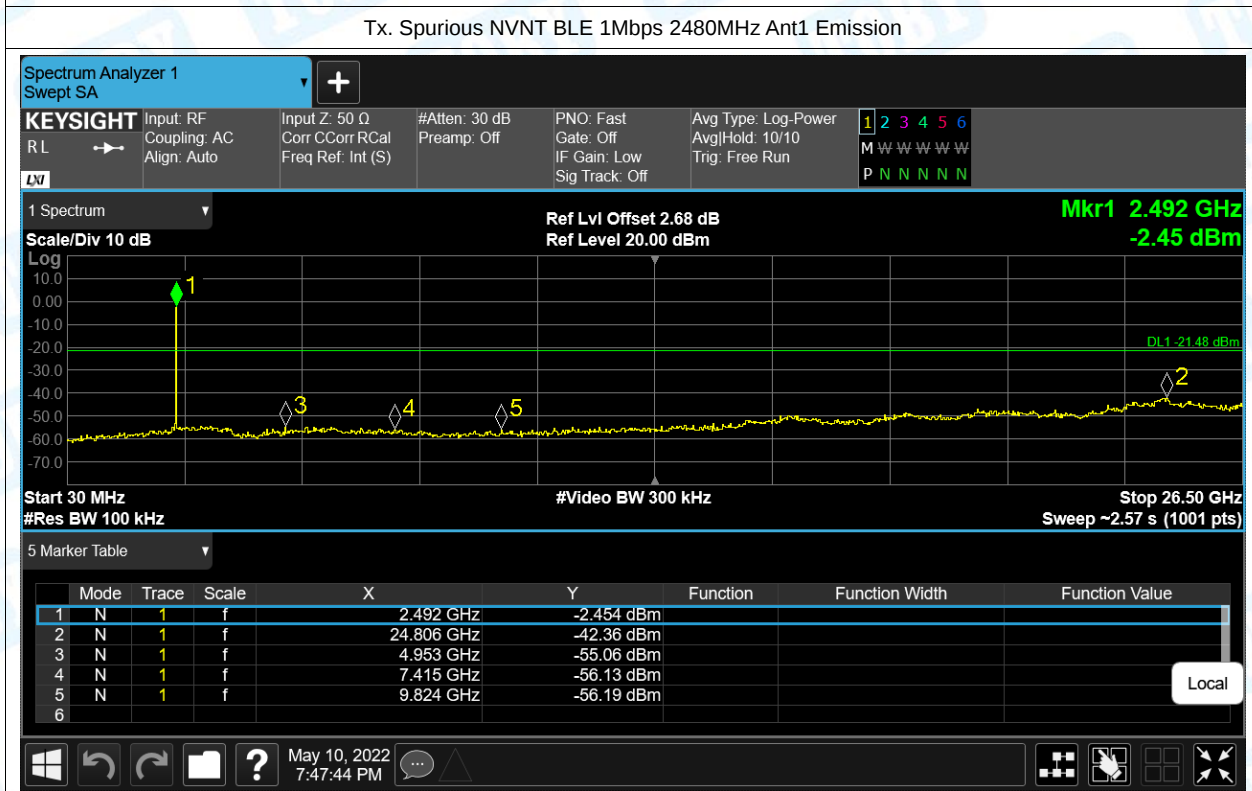
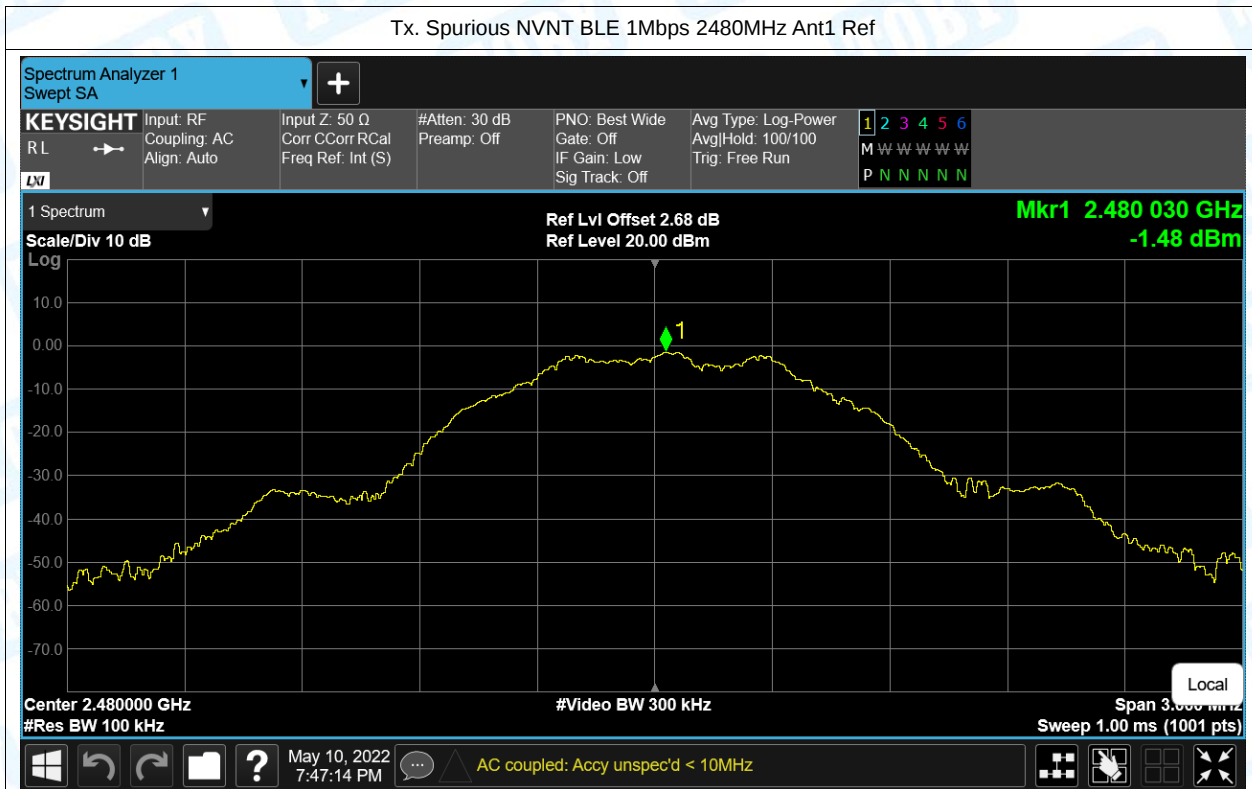


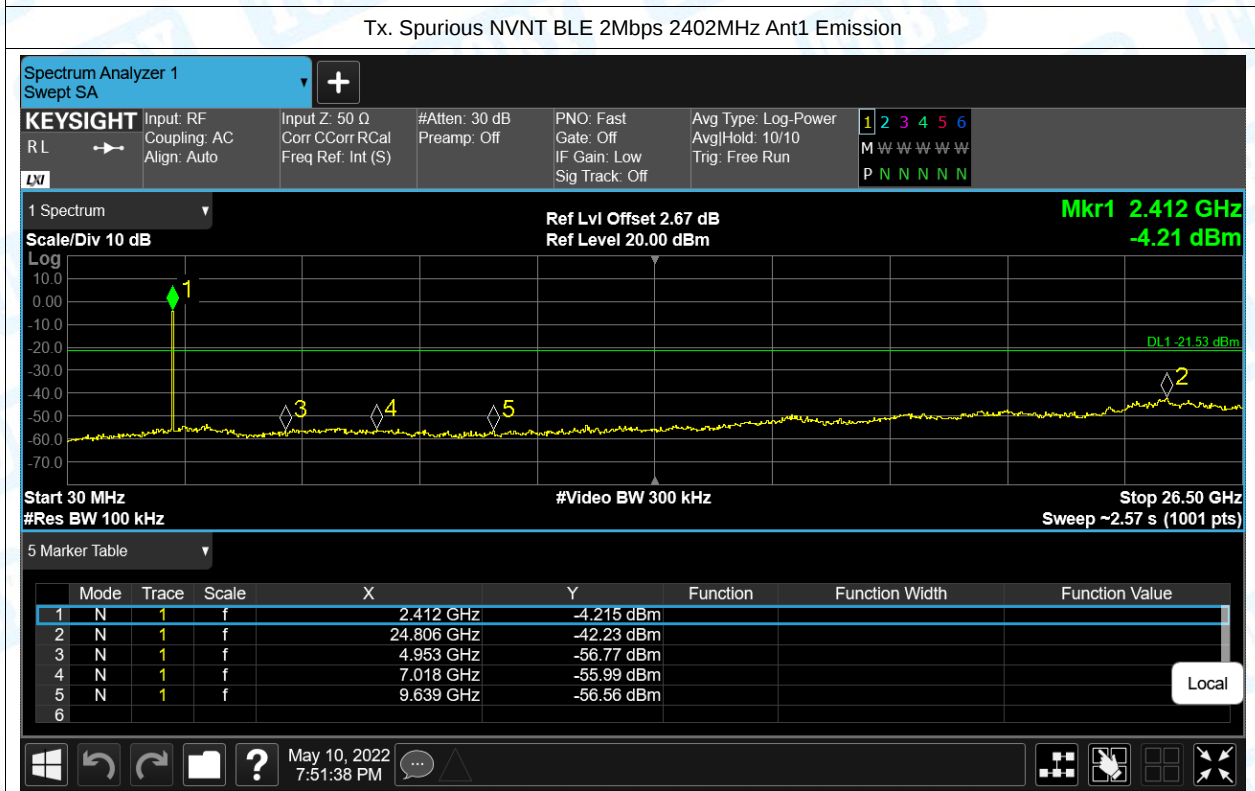
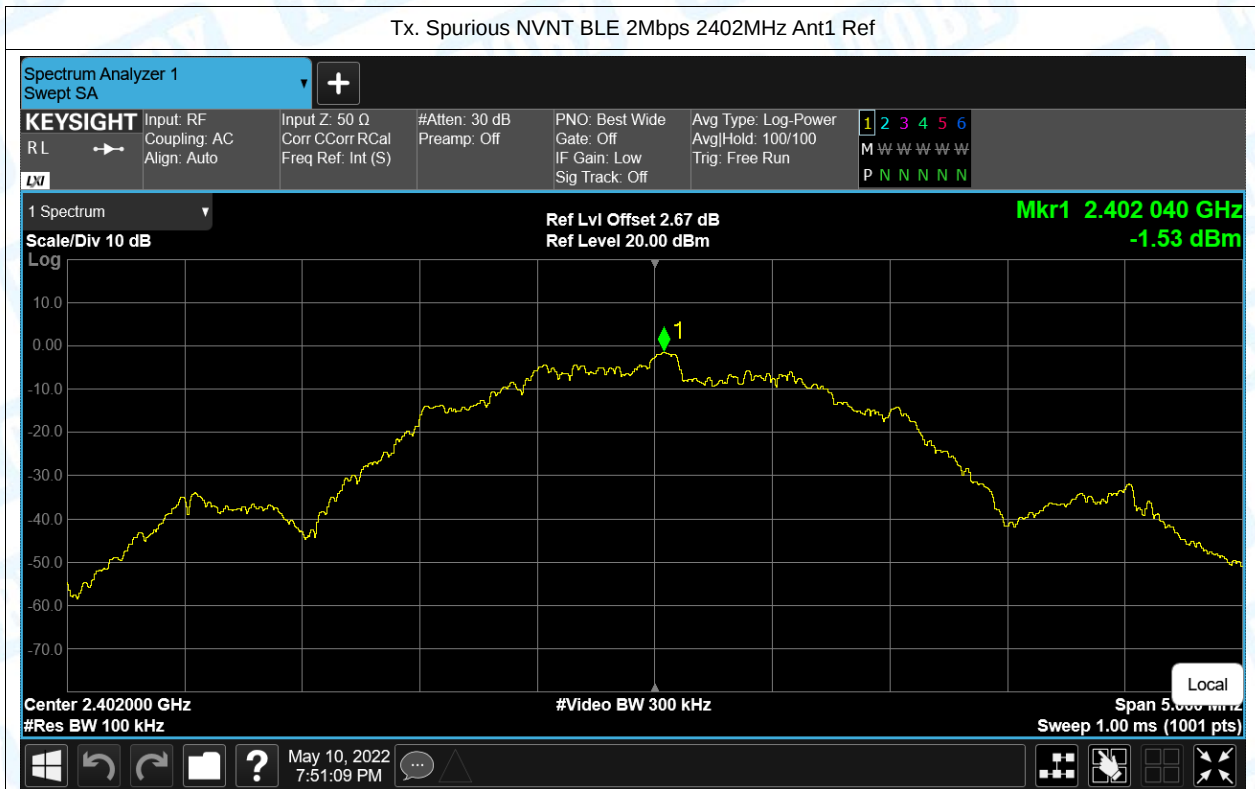
Conducted RF Spurious Emission

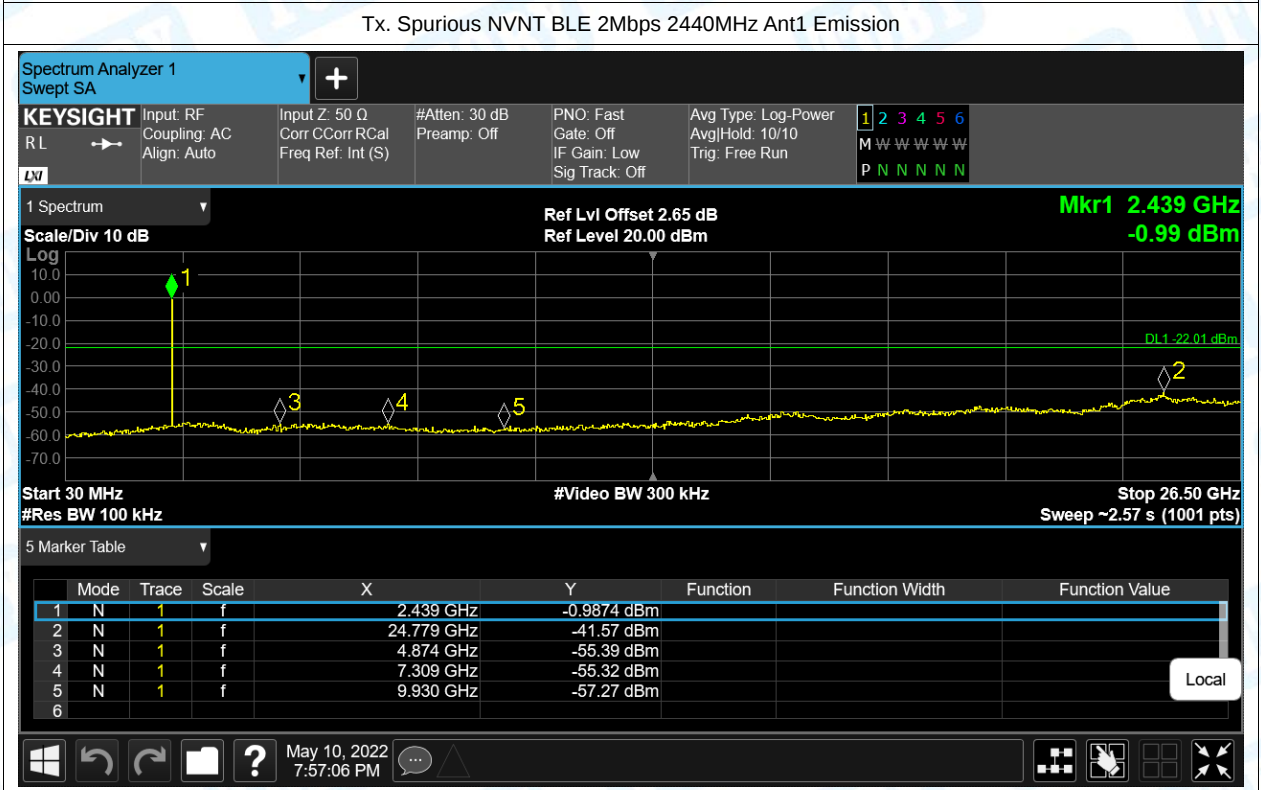
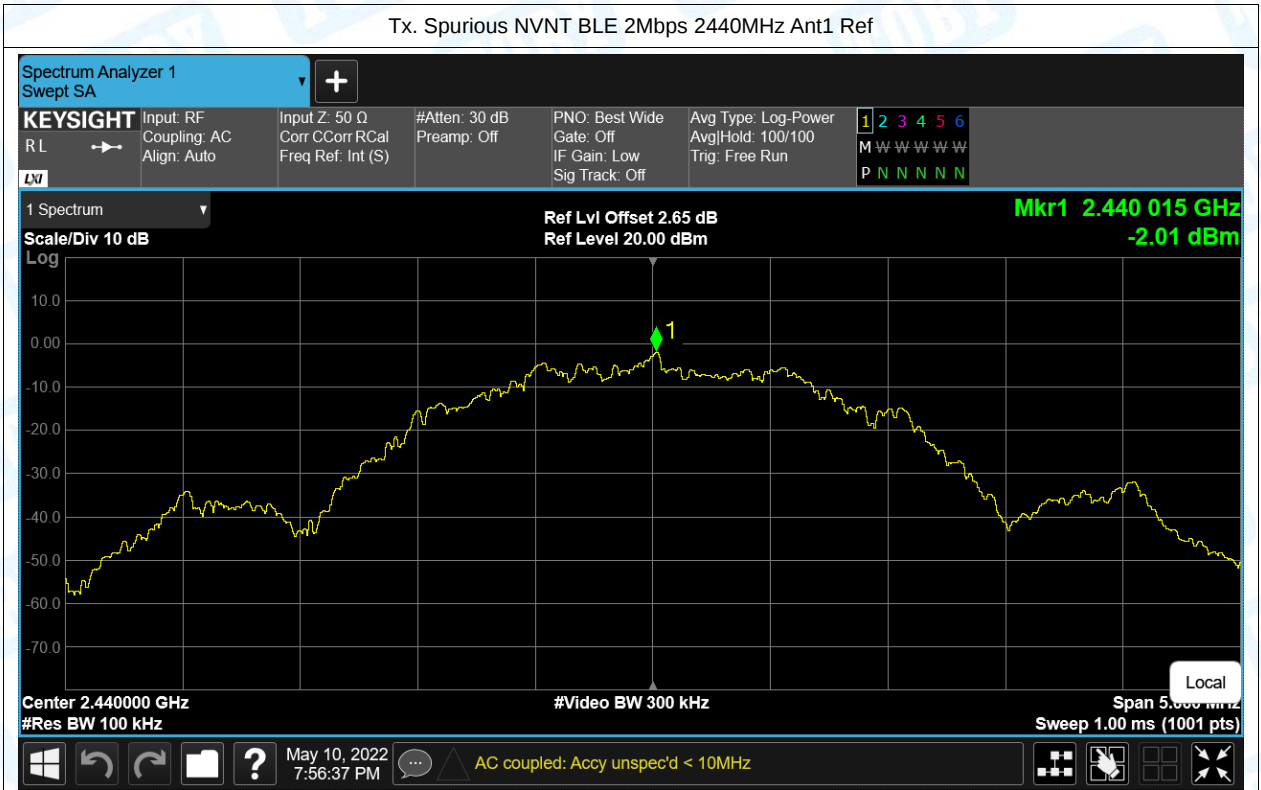
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-39.95	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-41.39	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-40.88	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-40.71	-20	Pass
NVNT	BLE 2Mbps	2440	Ant1	-39.56	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-40.53	-20	Pass

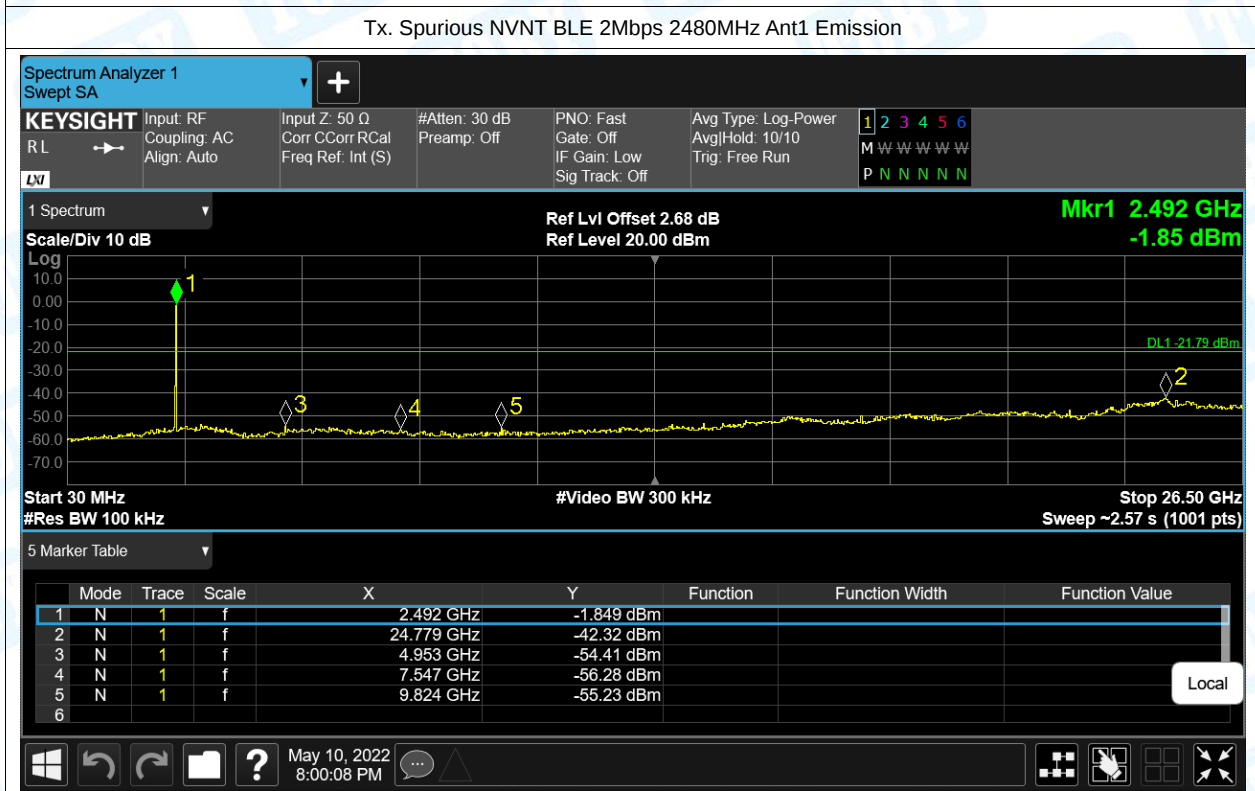
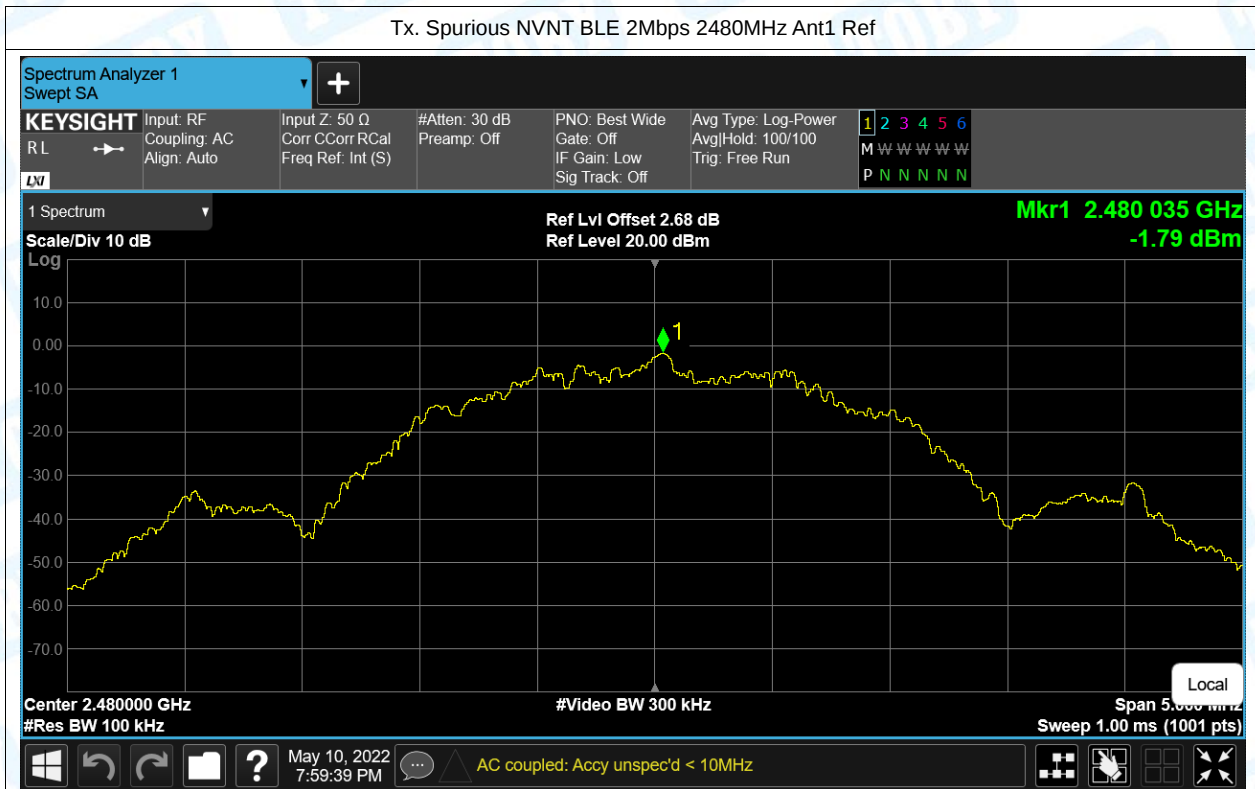








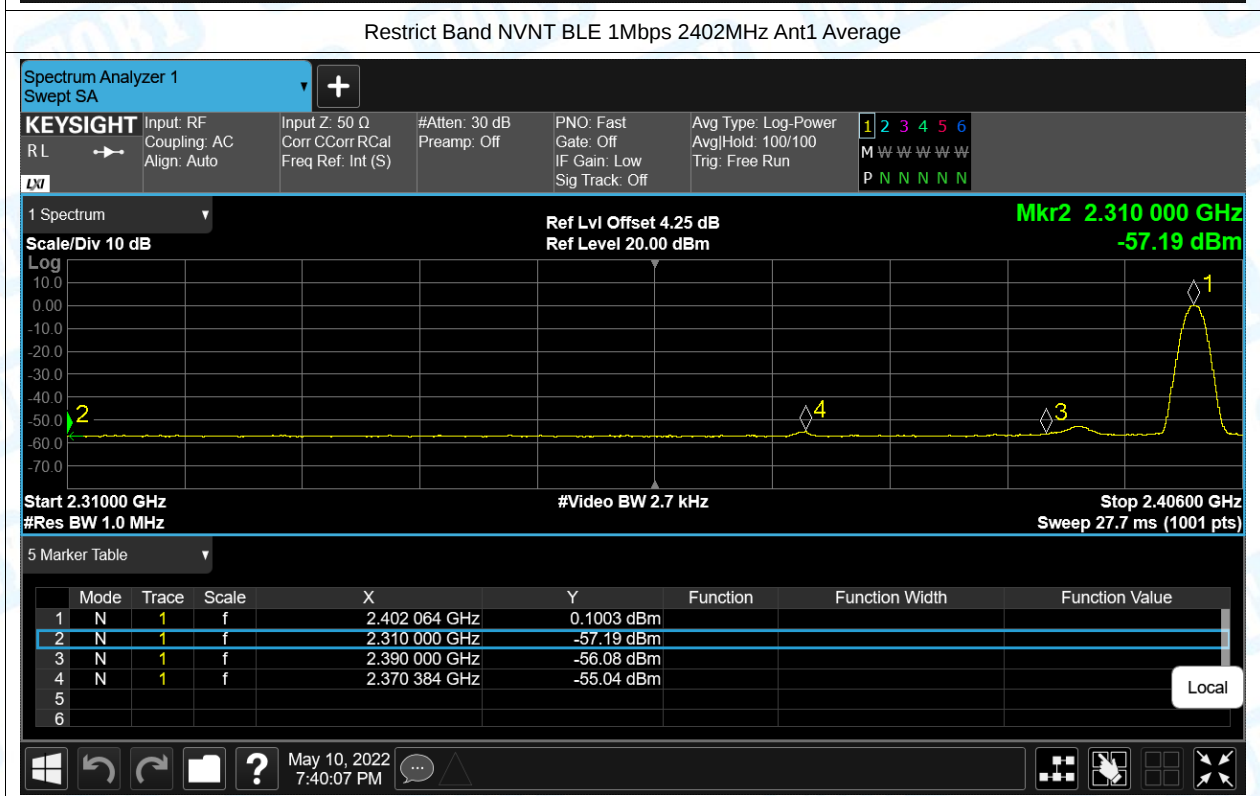
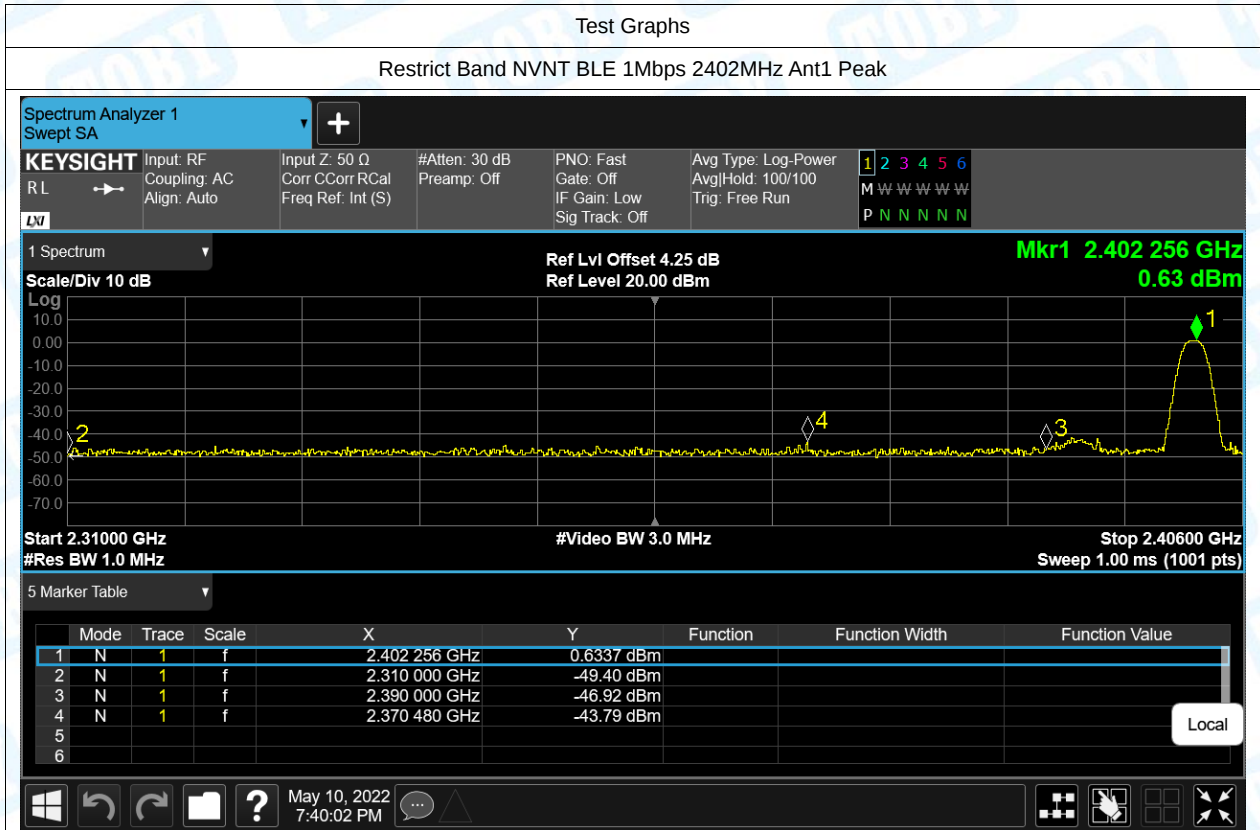




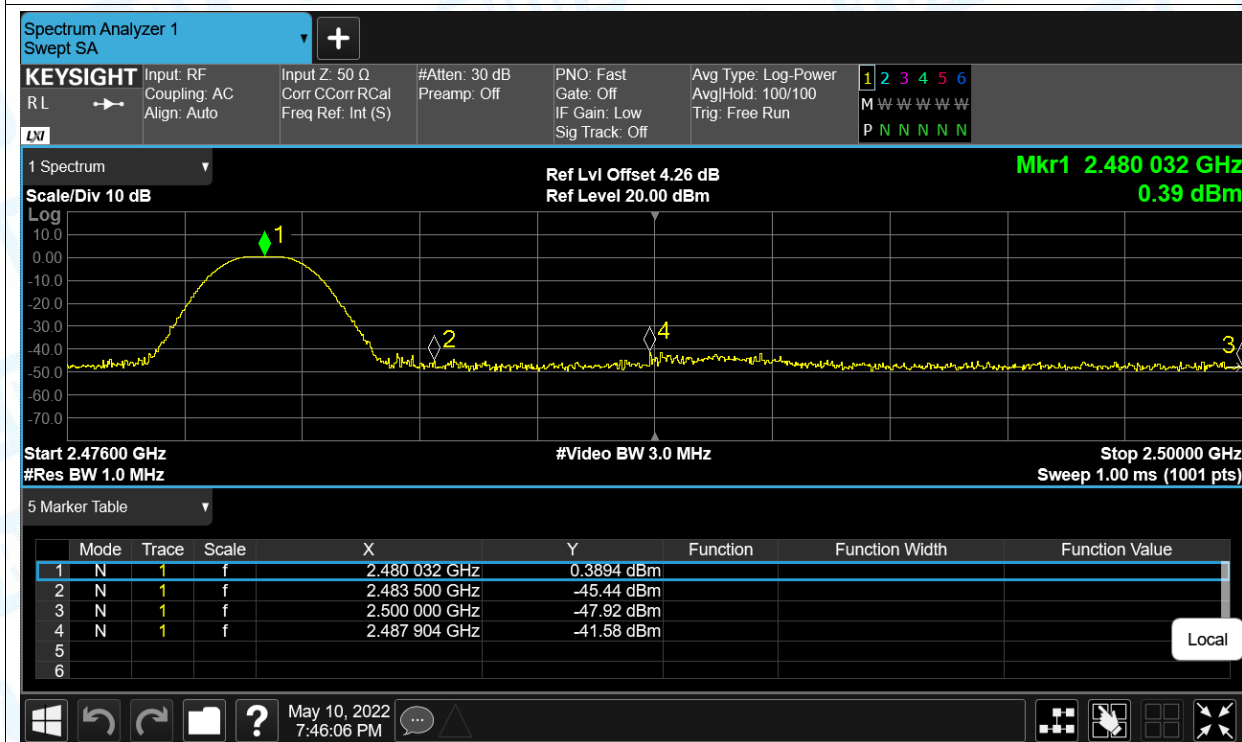
Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-49.4	2	47.86	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-57.19	2	40.07	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2370.48	-43.79	2	53.47	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2370.384	-55.04	2	42.22	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-46.67	2	50.59	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-56	2	41.26	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-45.44	2	51.82	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-56.42	2	40.84	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2487.904	-41.58	2	55.68	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2489.104	-53.69	2	43.57	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-47.92	2	49.34	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-56.77	2	40.49	Average	54	Pass
NVNT	BLE 2Mbps	2402	Ant1	2310	-47.38	2	49.88	Peak	74	Pass
NVNT	BLE 2Mbps	2402	Ant1	2310	-56.73	2	40.53	Average	54	Pass
NVNT	BLE 2Mbps	2402	Ant1	2367.12	-44.93	2	52.33	Peak	74	Pass
NVNT	BLE 2Mbps	2402	Ant1	2370.096	-54.66	2	42.6	Average	54	Pass
NVNT	BLE 2Mbps	2402	Ant1	2390	-47.27	2	49.99	Peak	74	Pass
NVNT	BLE 2Mbps	2402	Ant1	2390	-55.86	2	41.4	Average	54	Pass
NVNT	BLE 2Mbps	2480	Ant1	2483.5	-45.62	2	51.64	Peak	74	Pass
NVNT	BLE 2Mbps	2480	Ant1	2483.5	-53.86	2	43.4	Average	54	Pass
NVNT	BLE 2Mbps	2480	Ant1	2487.928	-41.52	2	55.74	Peak	74	Pass
NVNT	BLE 2Mbps	2480	Ant1	2488.816	-53.48	2	43.78	Average	54	Pass

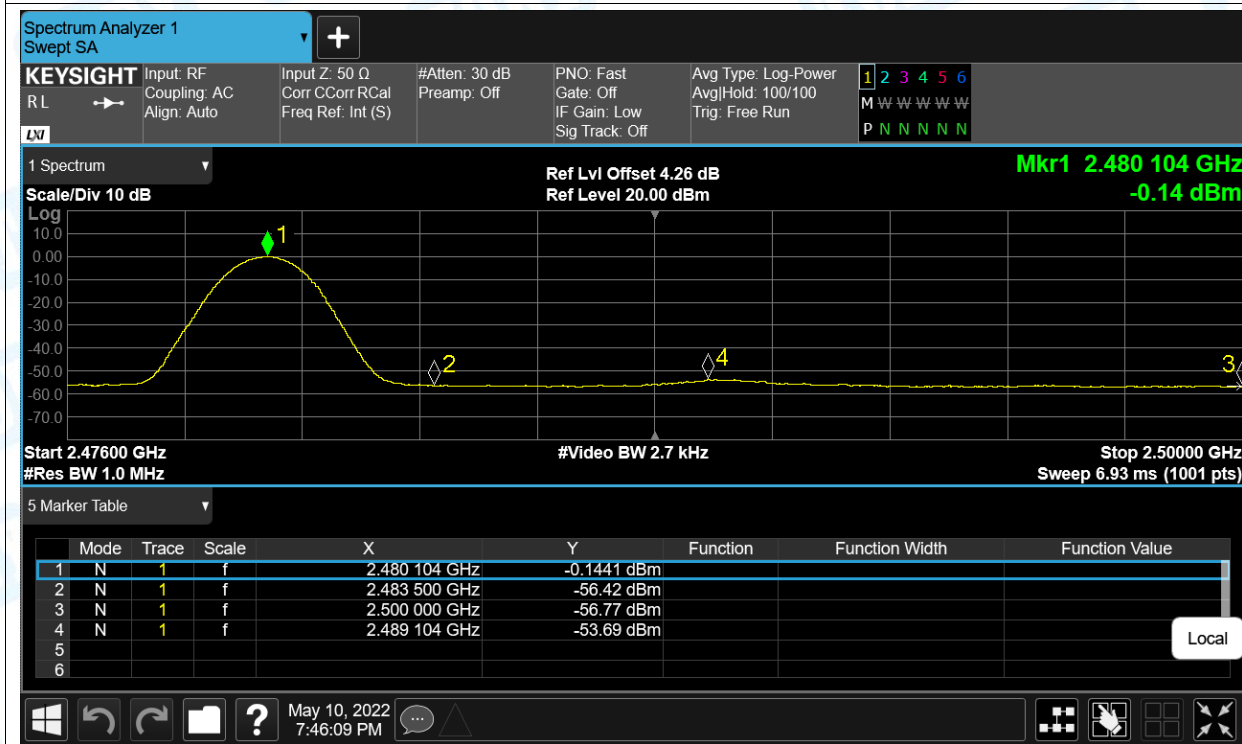
NVNT	BLE 2Mbps	2480	Ant1	2500	-47.21	2	50.05	Peak	74	Pass
NVNT	BLE 2Mbps	2480	Ant1	2500	-56.24	2	41.02	Average	54	Pass

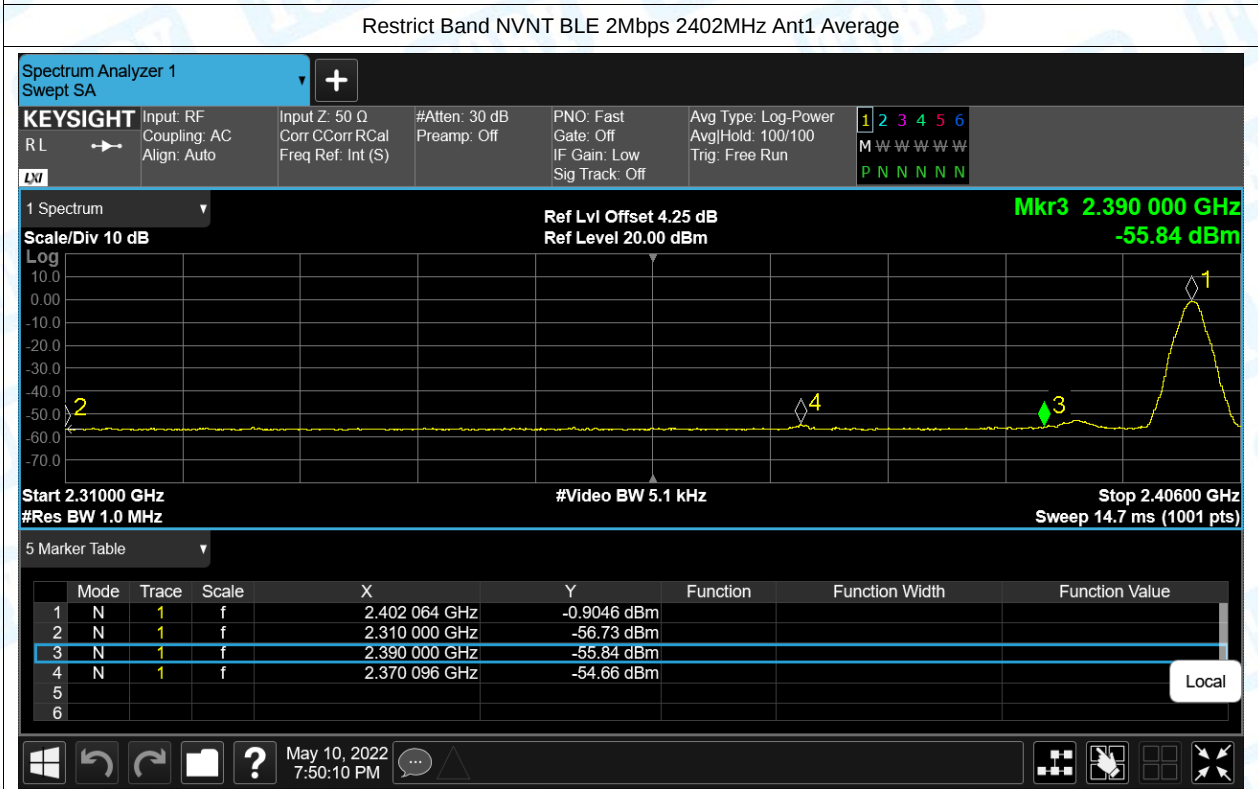
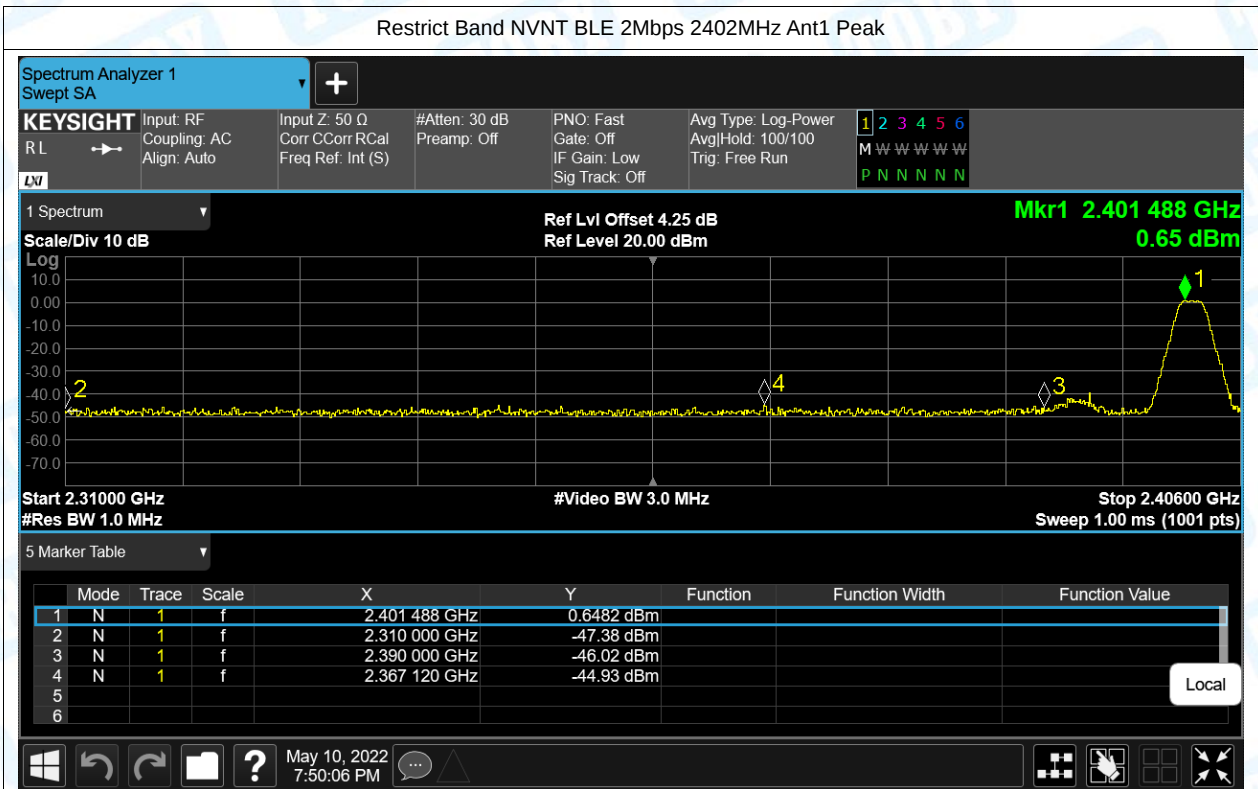


Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak

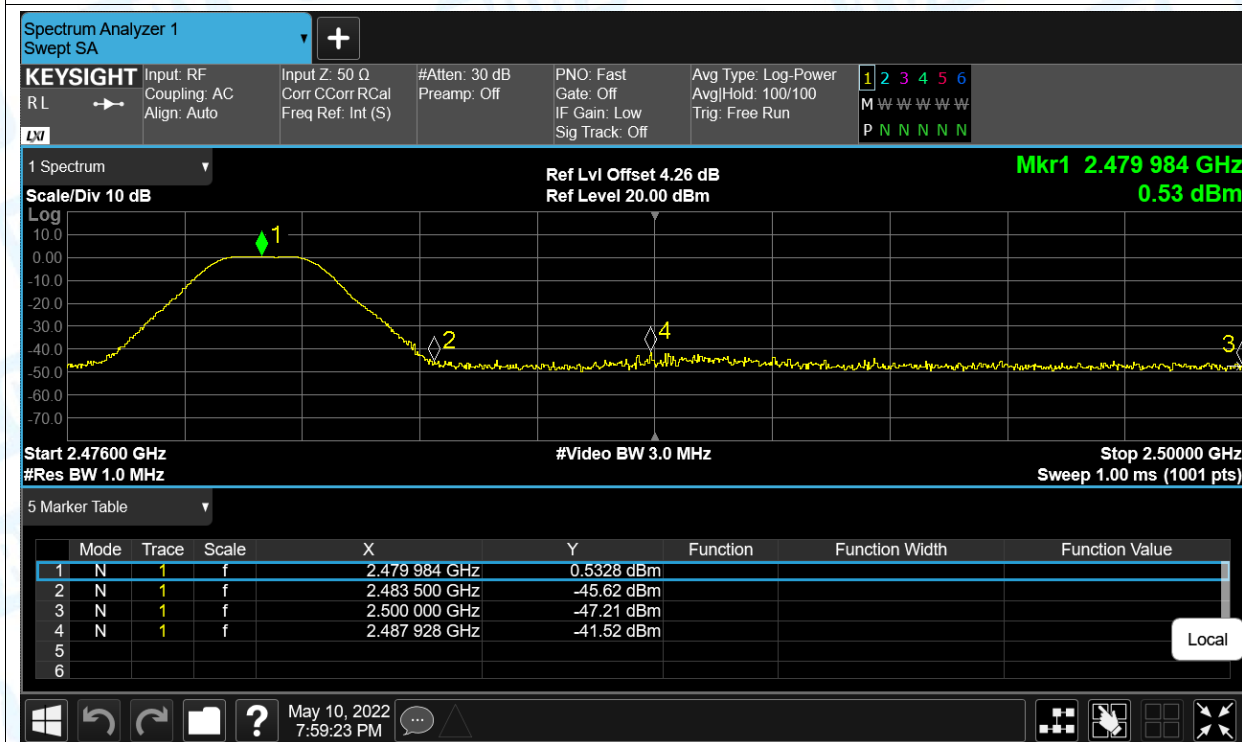


Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average





Restrict Band NVNT BLE 2Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2Mbps 2480MHz Ant1 Average

