

# RF Test Data for 2.4G

## (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	2.4GHz Digital Wireless Video Baby Camera
<b>Test Model:</b>	HB26
<b>Sample ID:</b>	202208-0002-01_04
Environmental Conditions	
<b>Temperature:</b>	25°C
<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V
<b>Test Engineer:</b>	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202208-0002-11	

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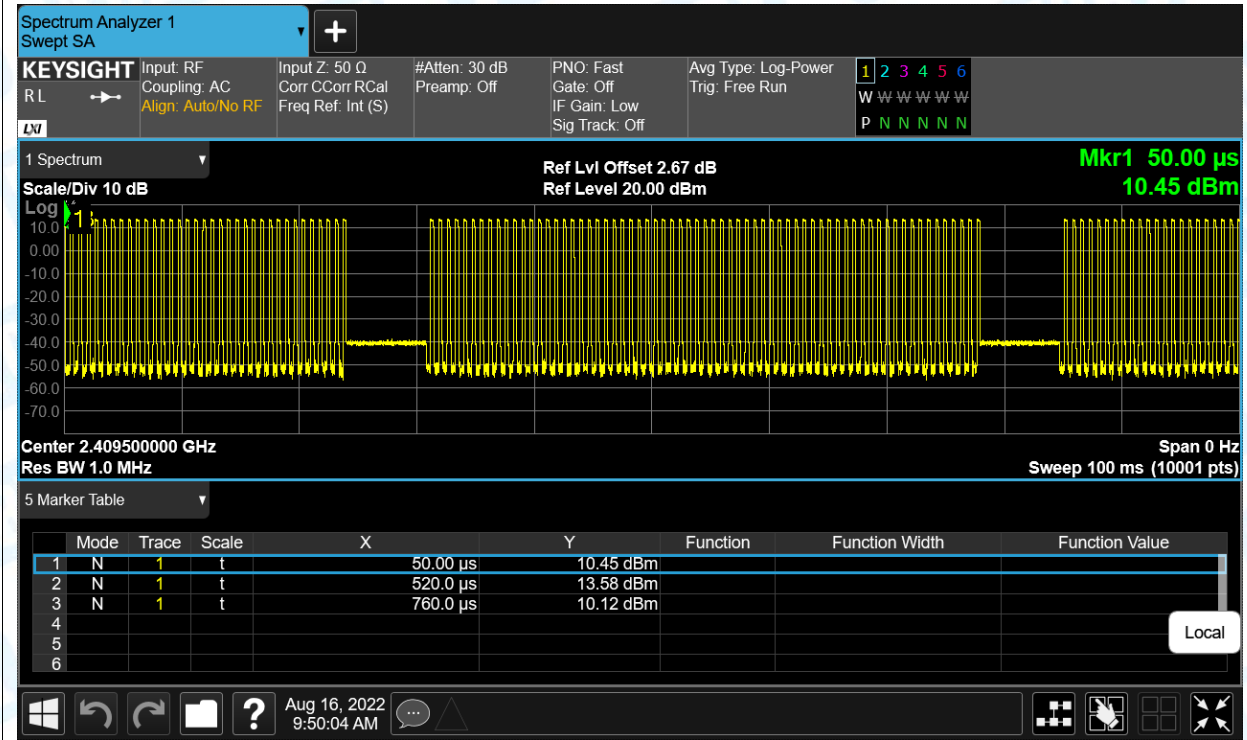


## 1. Duty Cycle

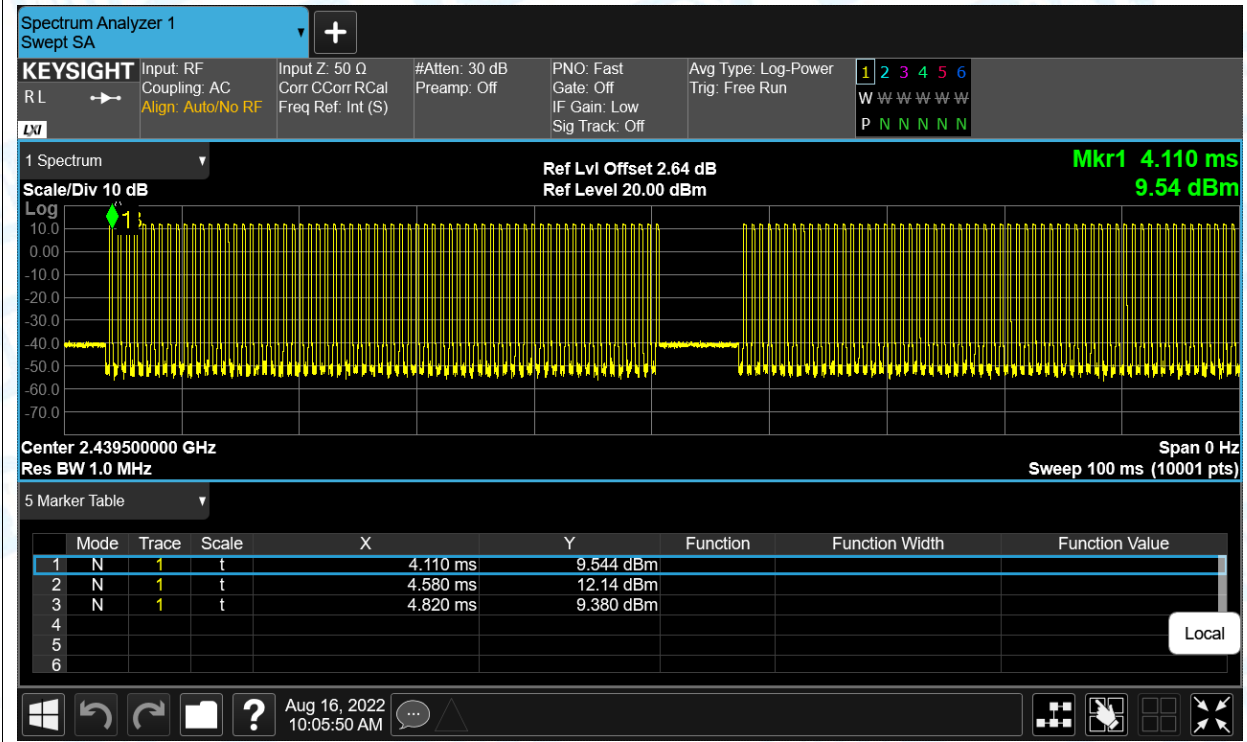
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	GFSK	2409.5	Ant1	30.95	5.09	4.17
NVNT	GFSK	2439.5	Ant1	33.8	4.71	4.17
NVNT	GFSK	2468	Ant1	34.29	4.65	4.17

Test Graphs

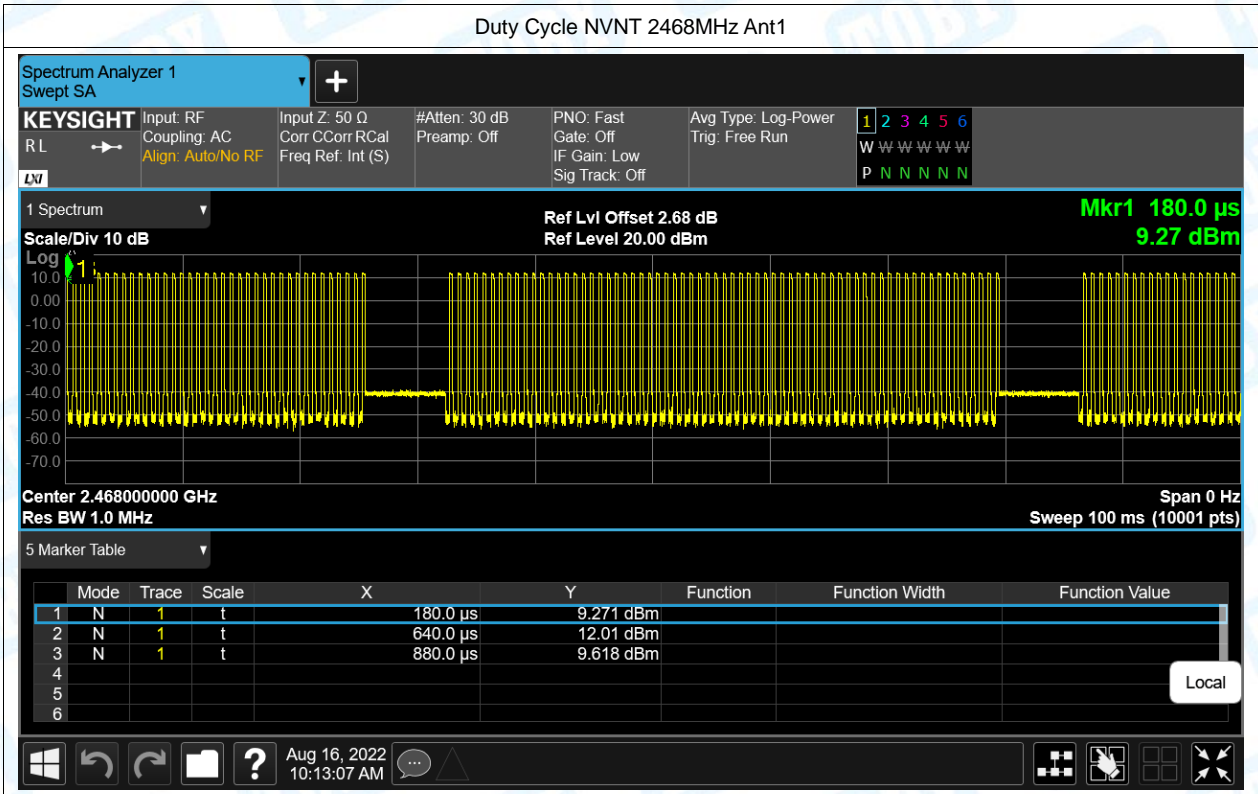
Duty Cycle NVNT 2409.5MHz Ant1



Duty Cycle NVNT 2439.5MHz Ant1







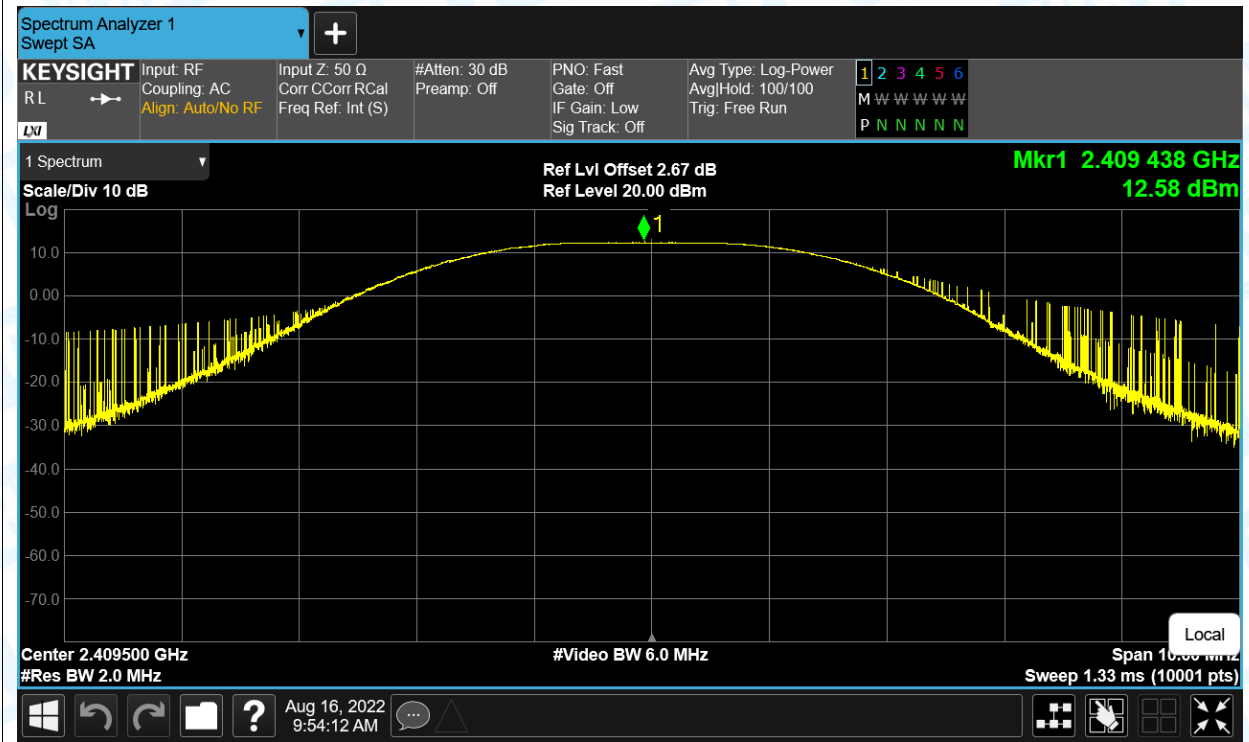
## 2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2409.5	Ant1	12.583	21	Pass
NVNT	GFSK	2439.5	Ant1	12.412	21	Pass
NVNT	GFSK	2468	Ant1	12.375	21	Pass

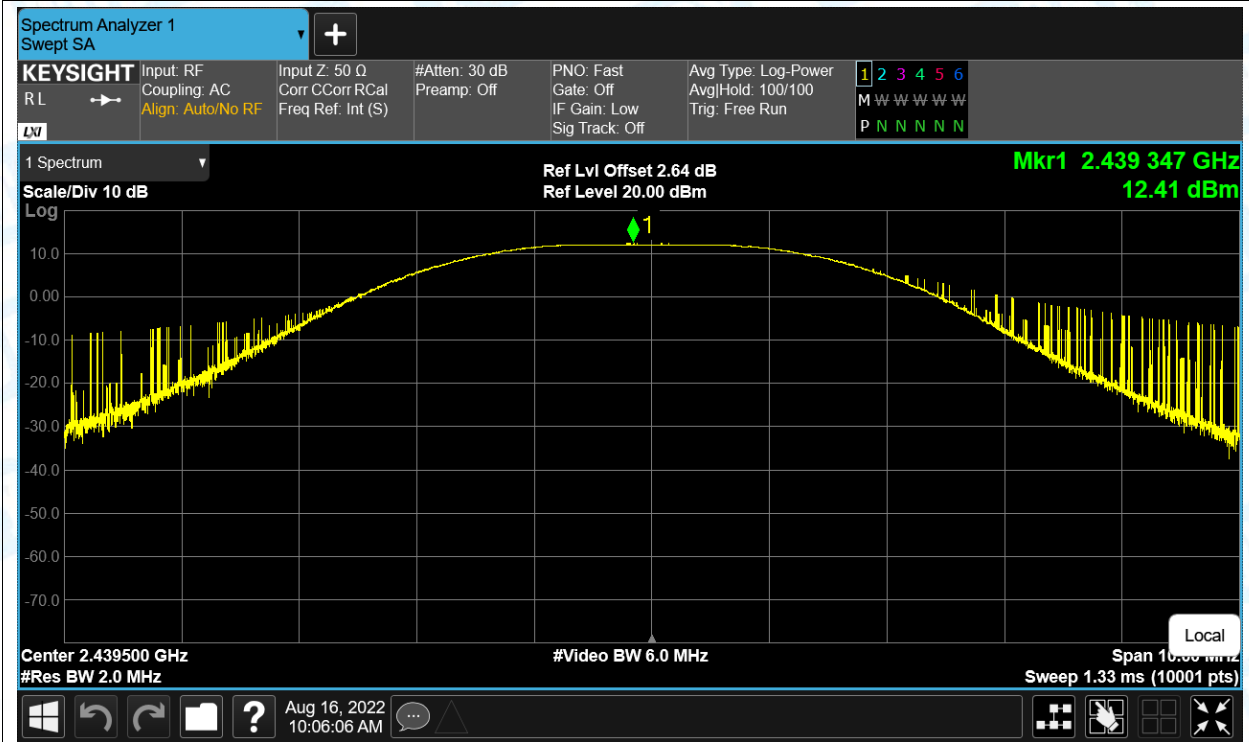


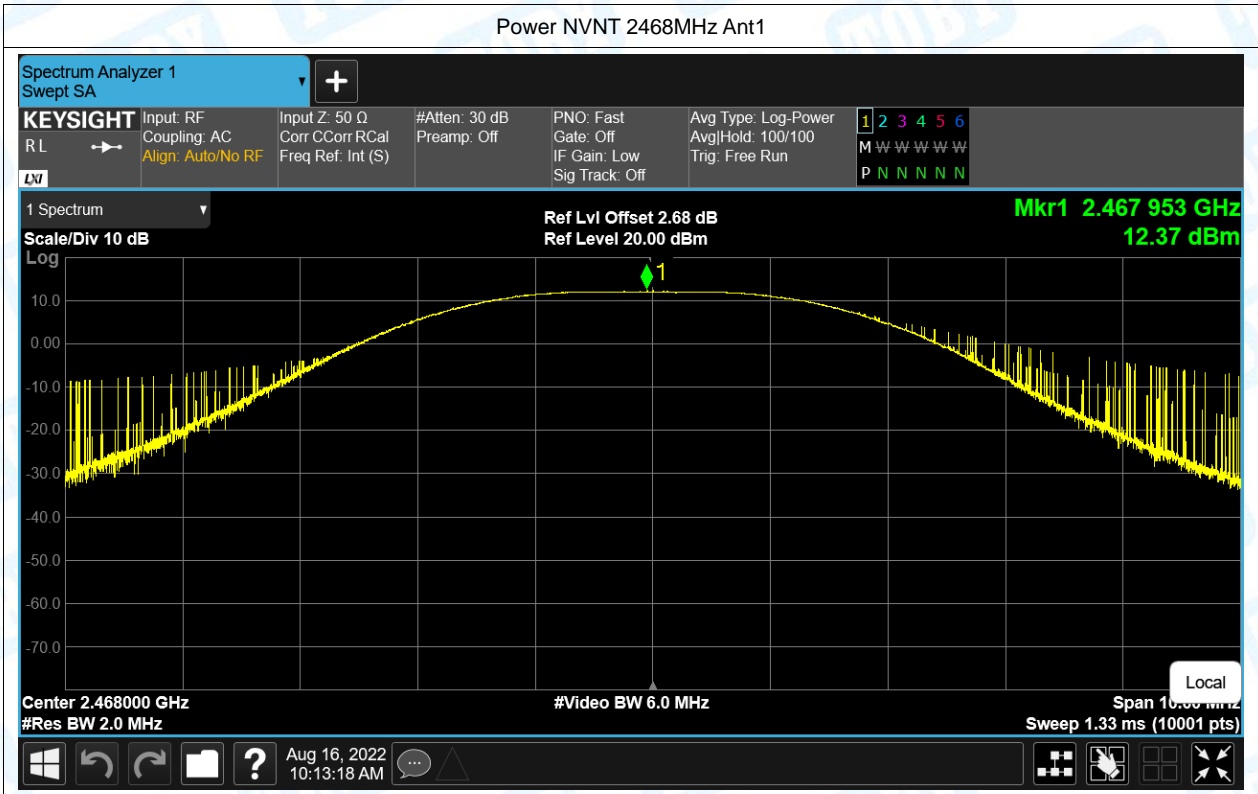
Test Graphs

Power NVNT 2409.5MHz Ant1



Power NVNT 2439.5MHz Ant1

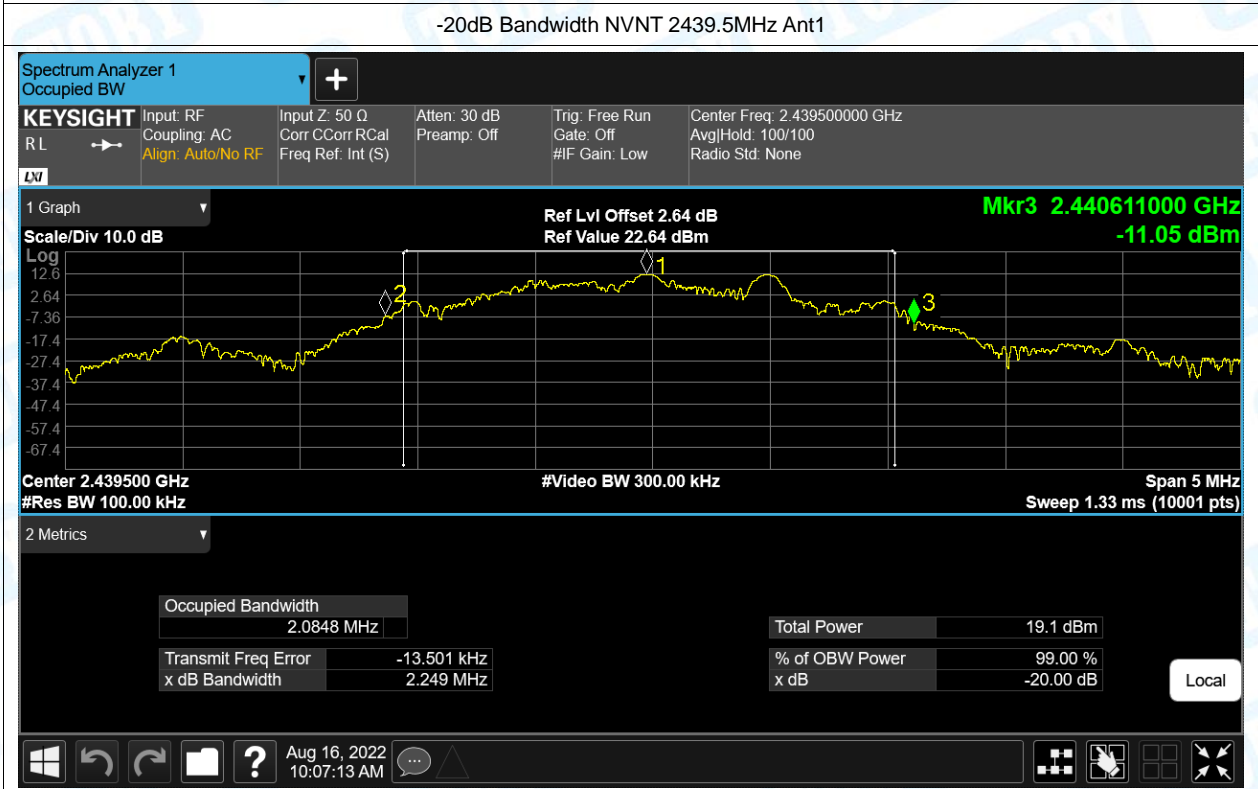
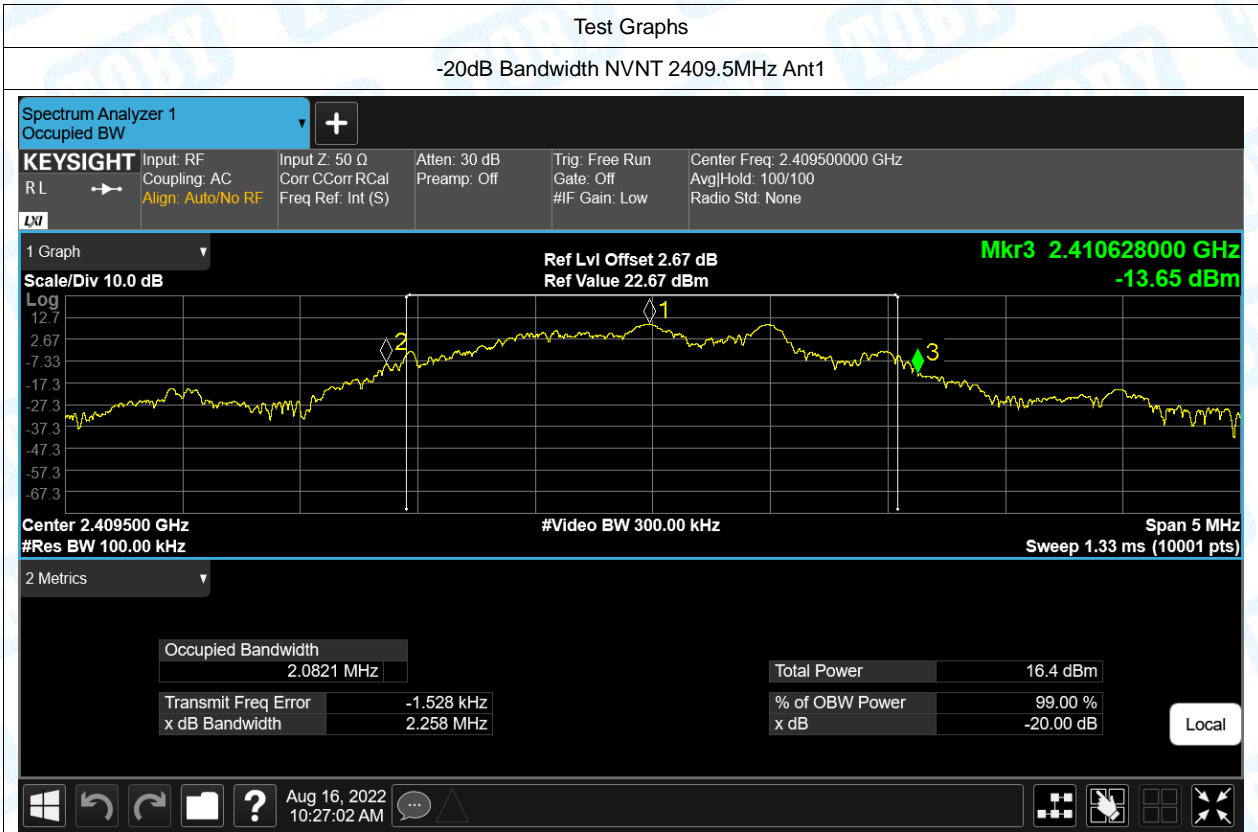




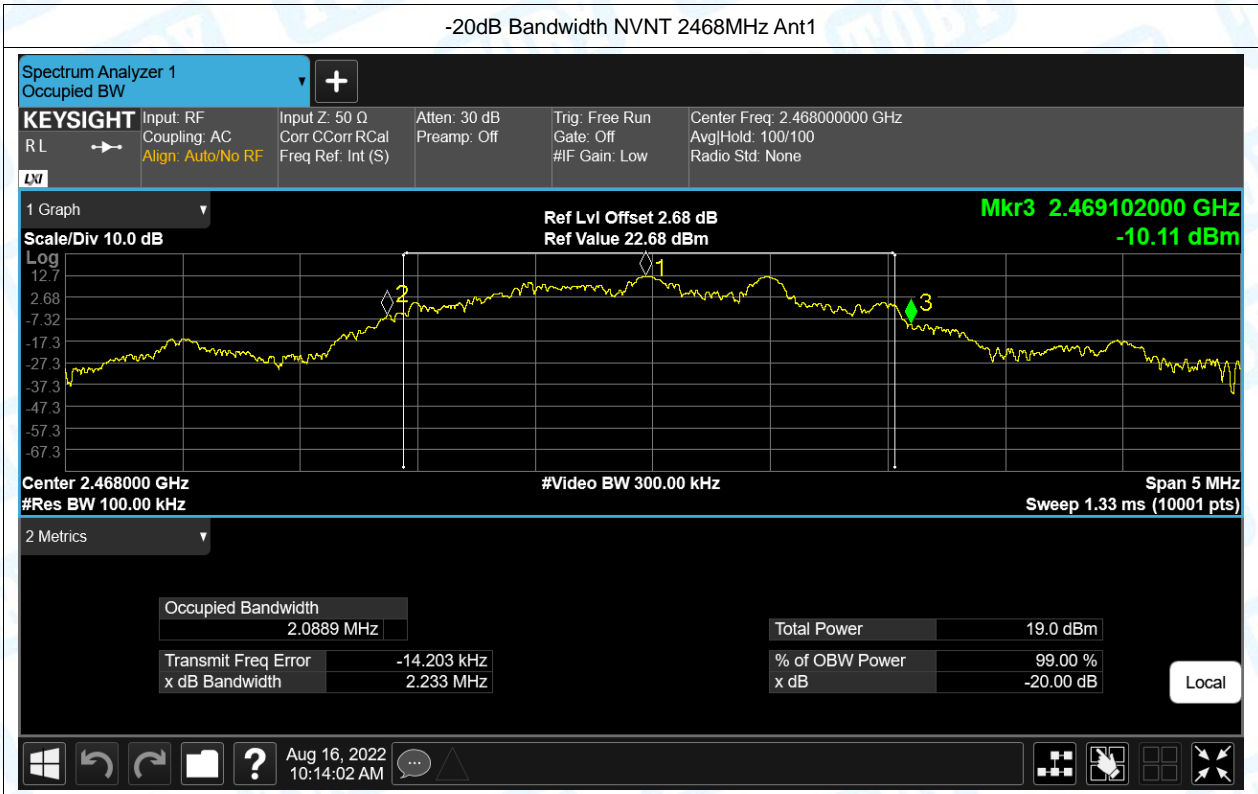


### 3. -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
GFSK	NVNT	2409.5	Ant1	2.26	0	Pass
GFSK	NVNT	2439.5	Ant1	2.25	0	Pass
GFSK	NVNT	2468	Ant1	2.23	0	Pass







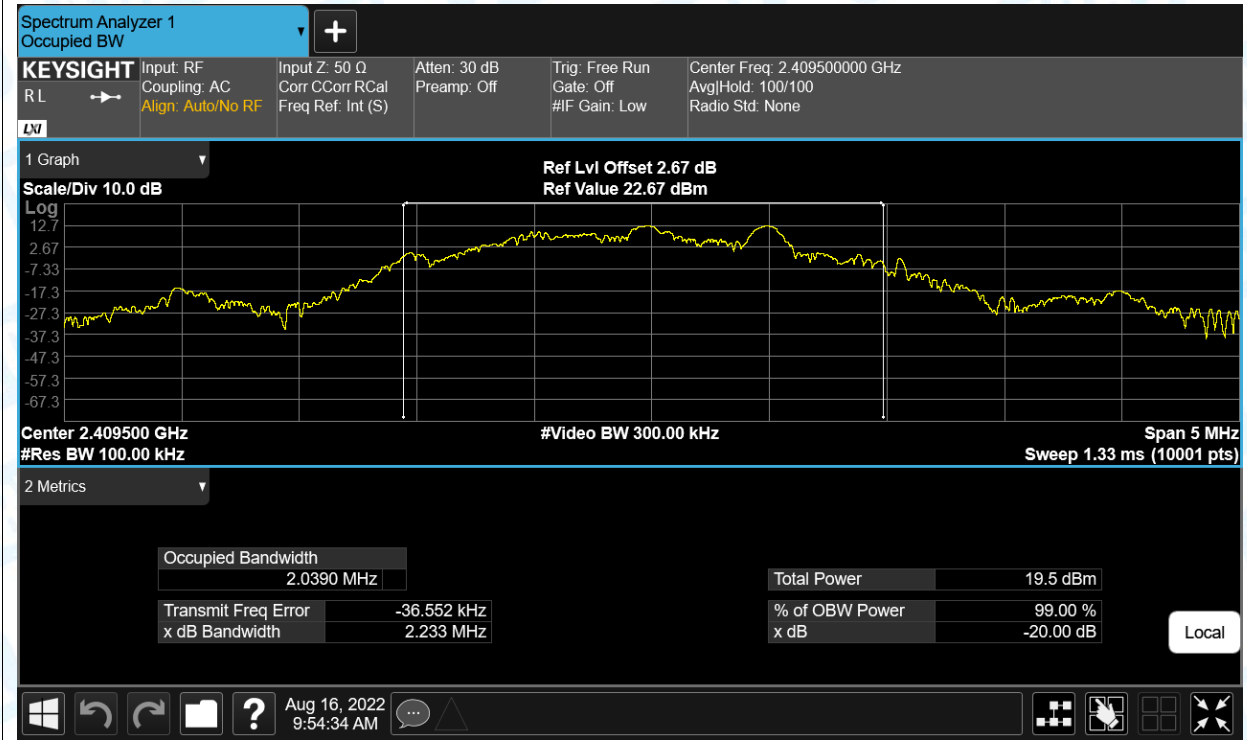
#### 4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	GFSK	2409.5	Ant1	2.039
NVNT	GFSK	2439.5	Ant1	2.093
NVNT	GFSK	2468	Ant1	2.118

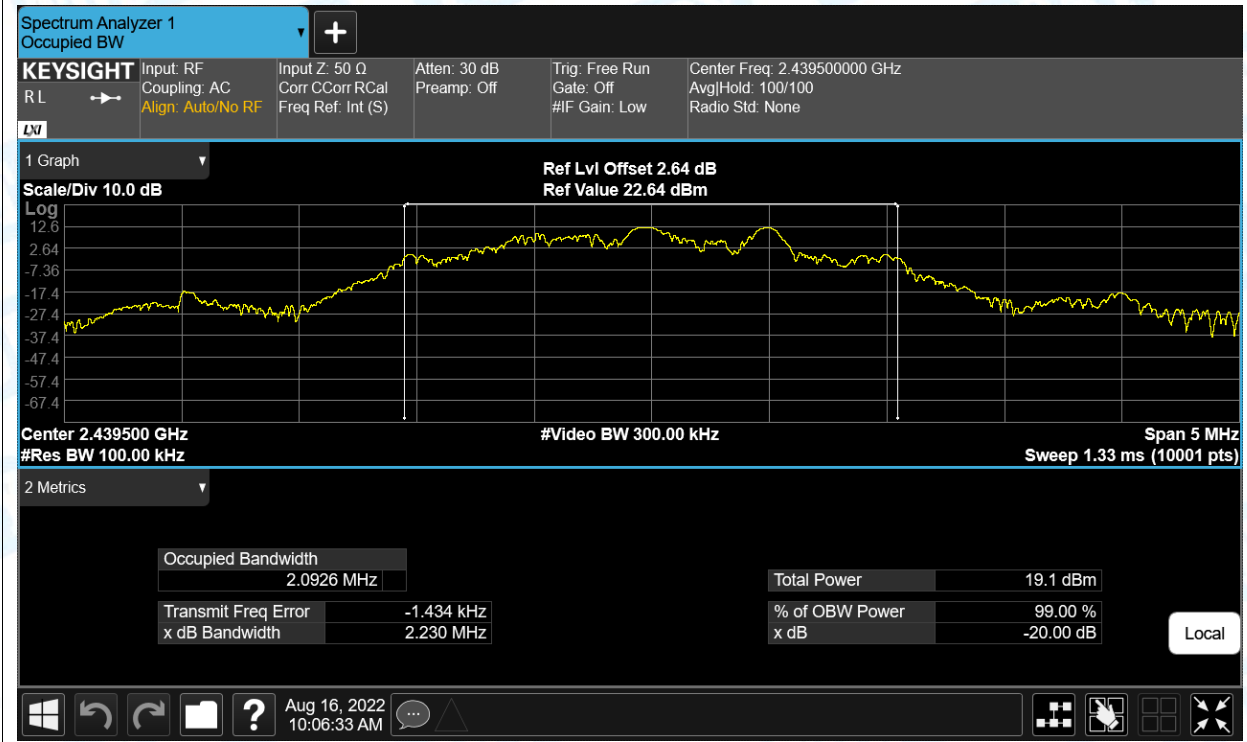


Test Graphs

OBW NVNT 2409.5MHz Ant1



OBW NVNT 2439.5MHz Ant1





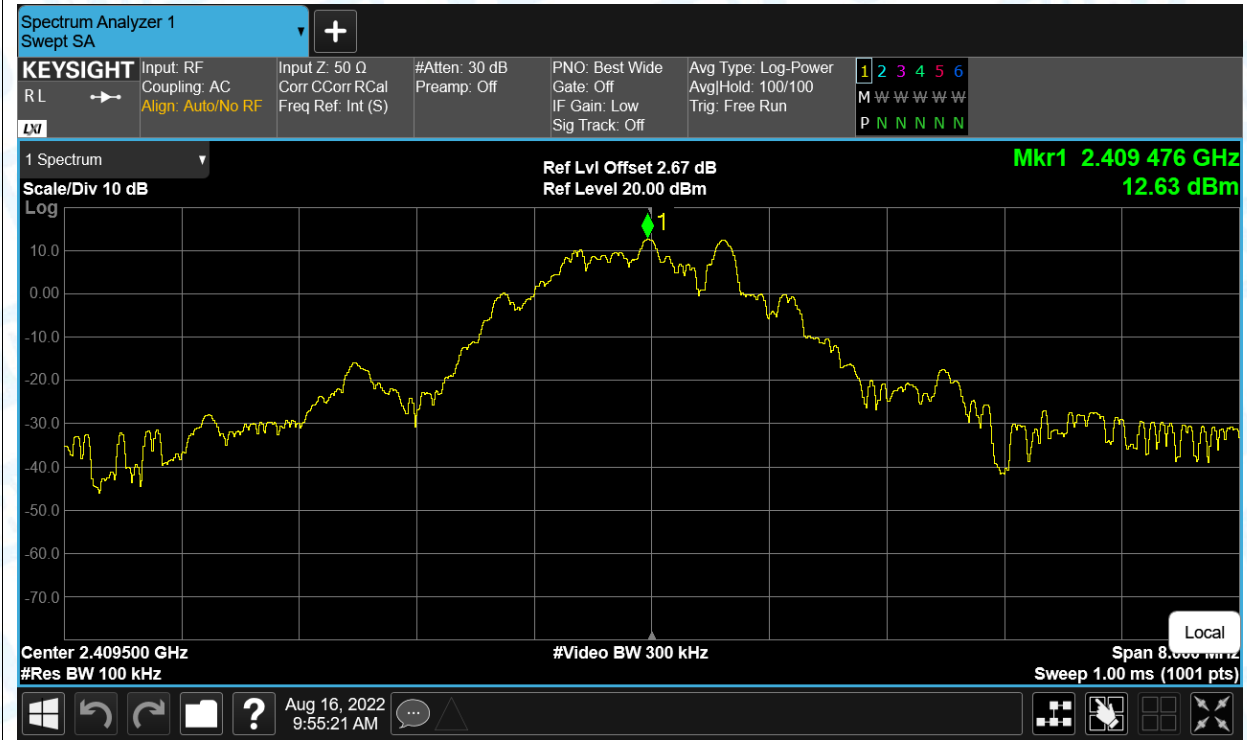


## 5. Band Edge

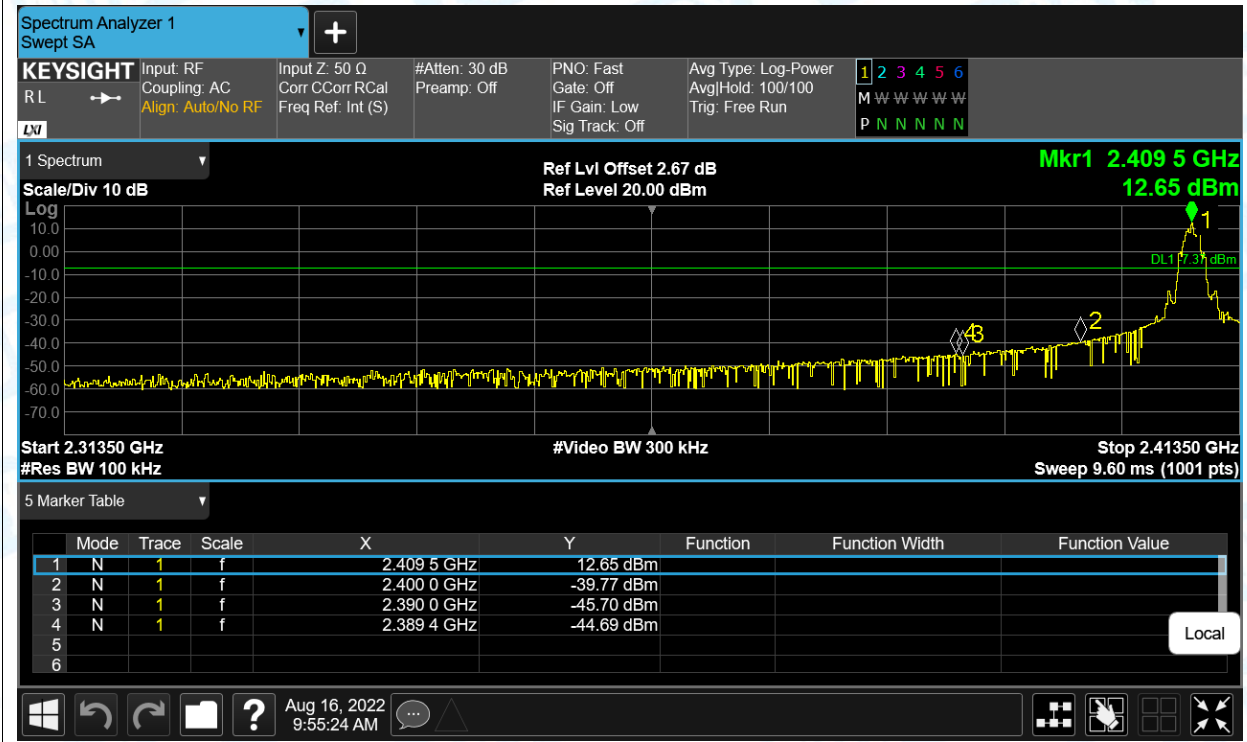
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	No-Hopping	-57.32	-20	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	-55.85	-20	Pass

Test Graphs

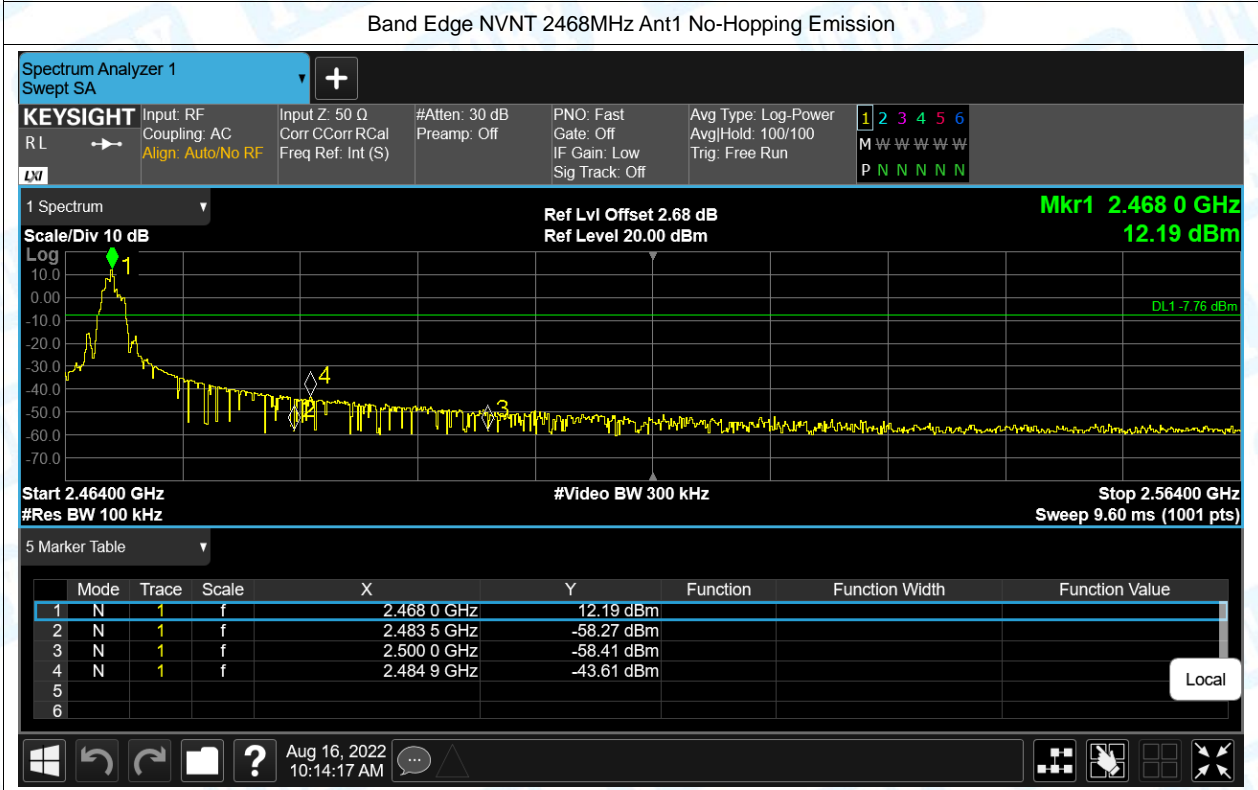
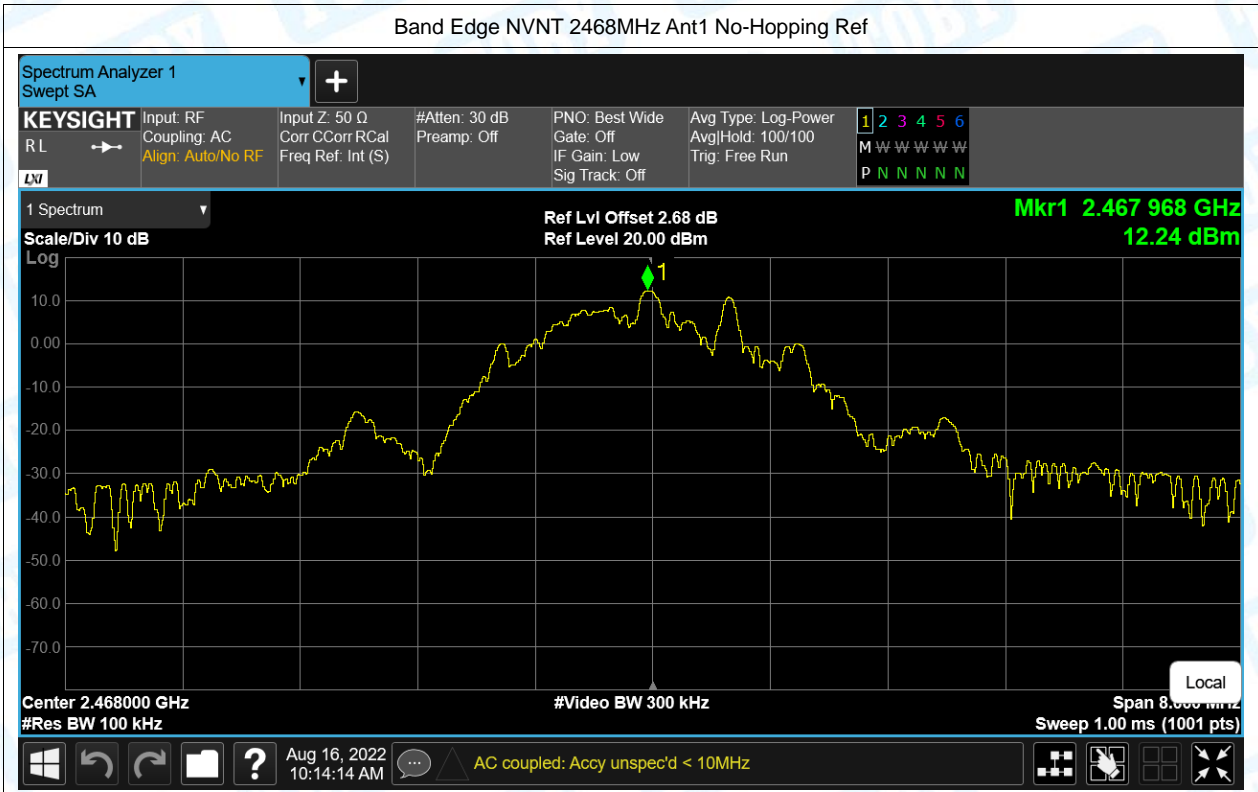
Band Edge NVNT 2409.5MHz Ant1 No-Hopping Ref



Band Edge NVNT 2409.5MHz Ant1 No-Hopping Emission







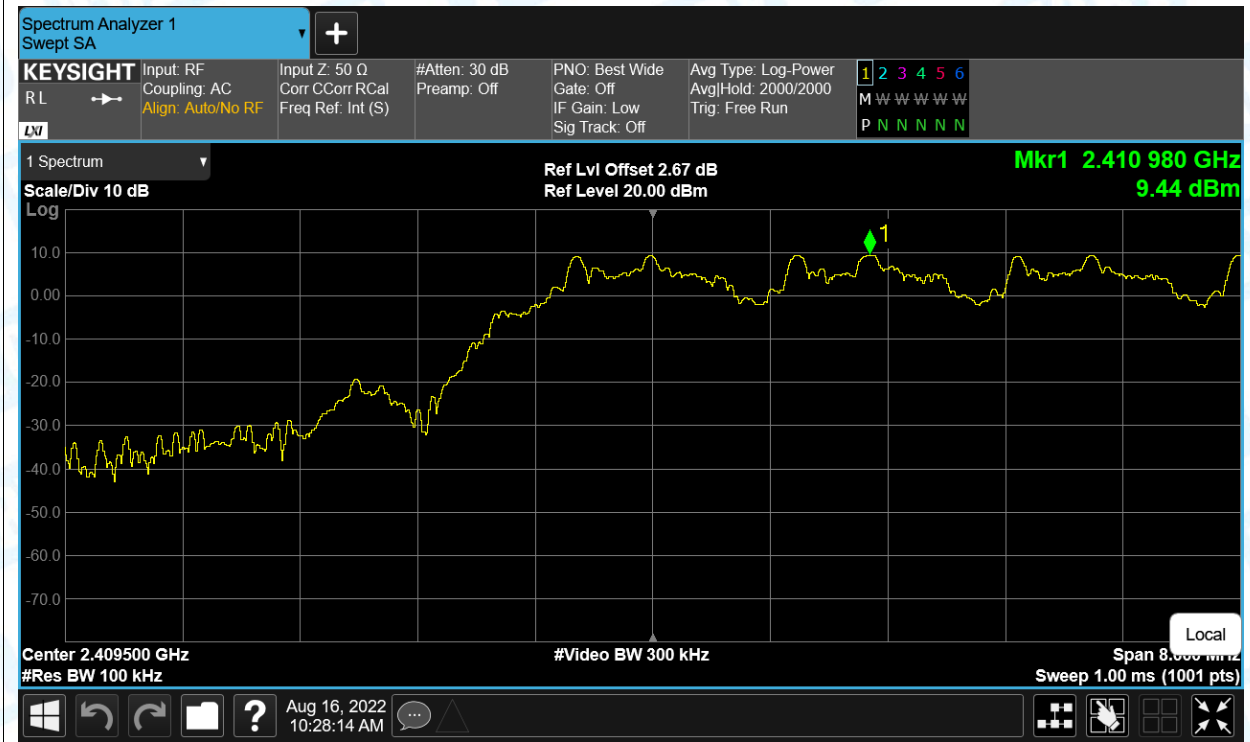
## 6. Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	Hopping	-56.45	-20	Pass
NVNT	GFSK	2468	Ant1	Hopping	-56.15	-20	Pass

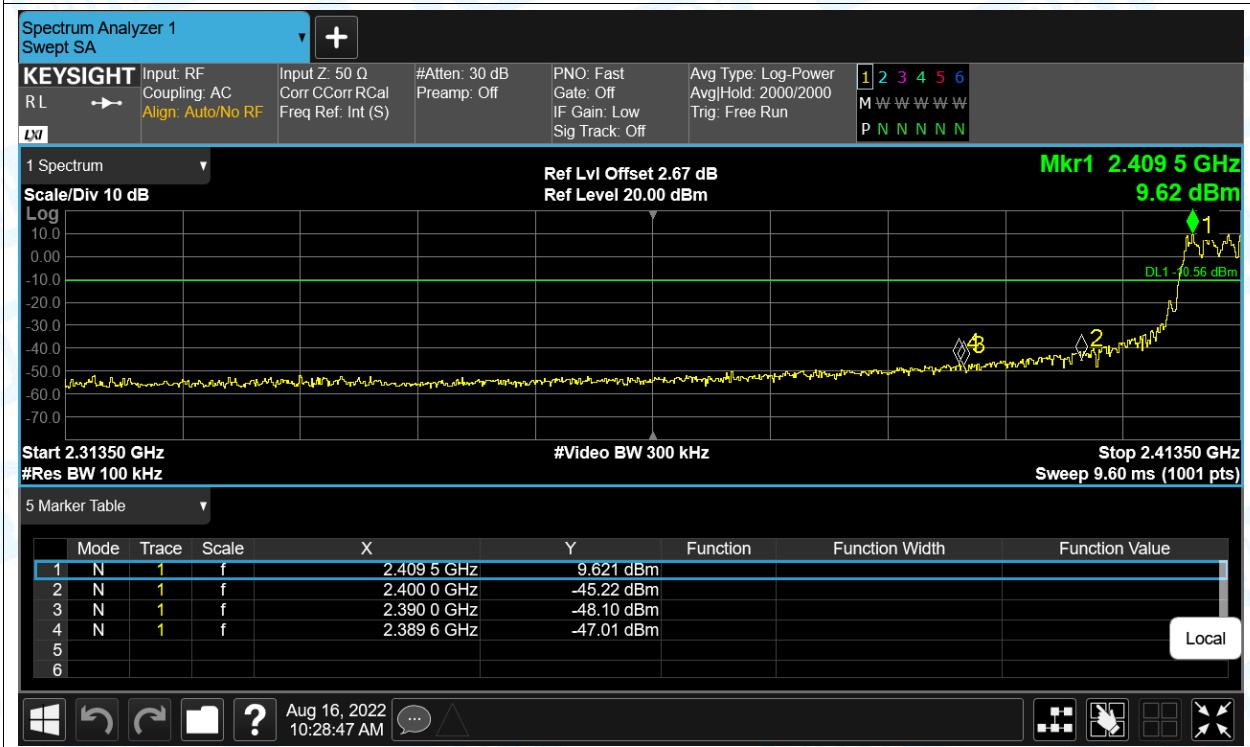


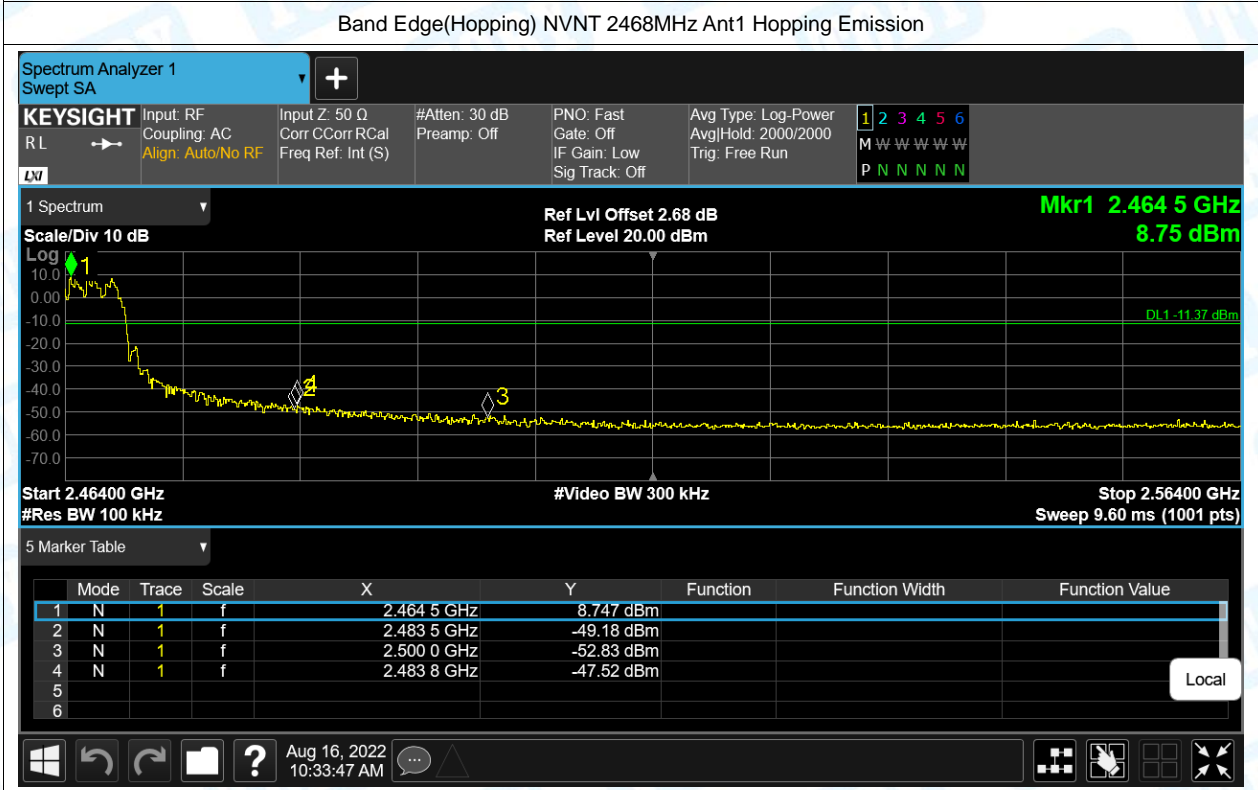
Test Graphs

Band Edge(Hopping) NVNT 2409.5MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2409.5MHz Ant1 Hopping Emission





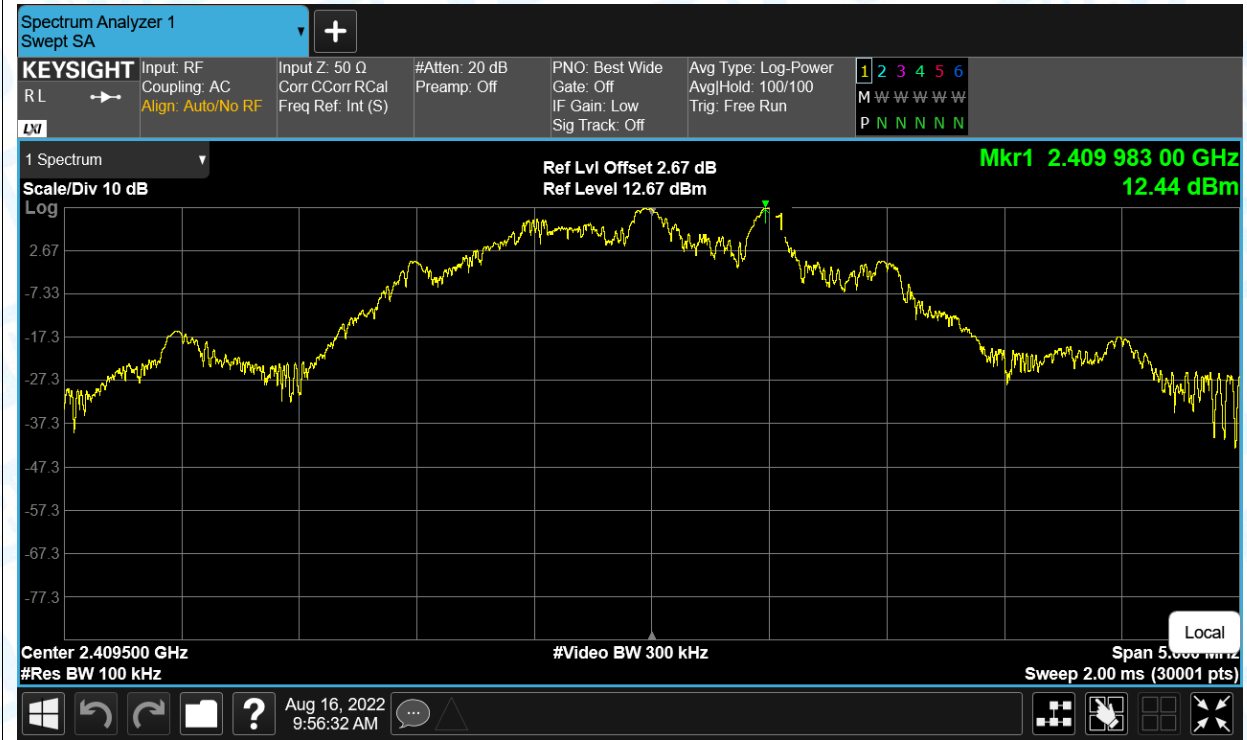


## 7. Conducted RF Spurious Emission

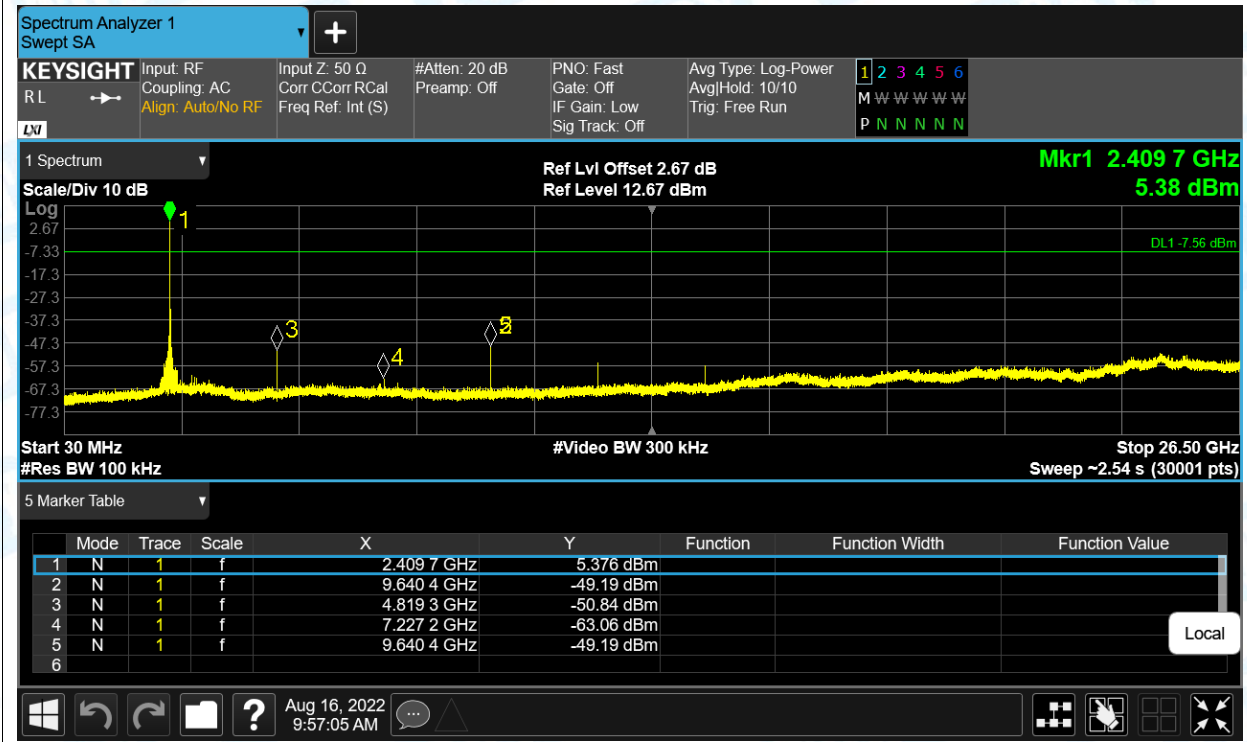
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2409.5	Ant1	-61.63	-20	Pass
NVNT	GFSK	2439.5	Ant1	-54.59	-20	Pass
NVNT	GFSK	2468	Ant1	-54.29	-20	Pass

Test Graphs

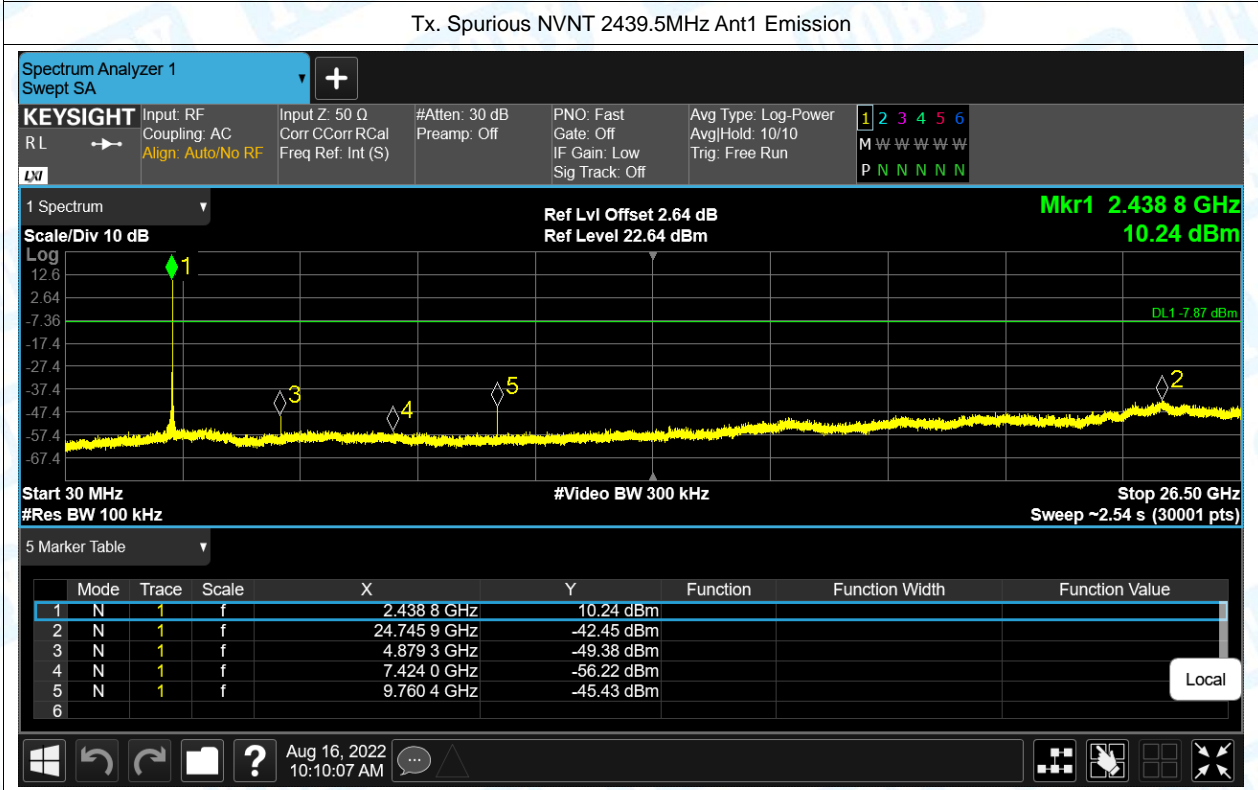
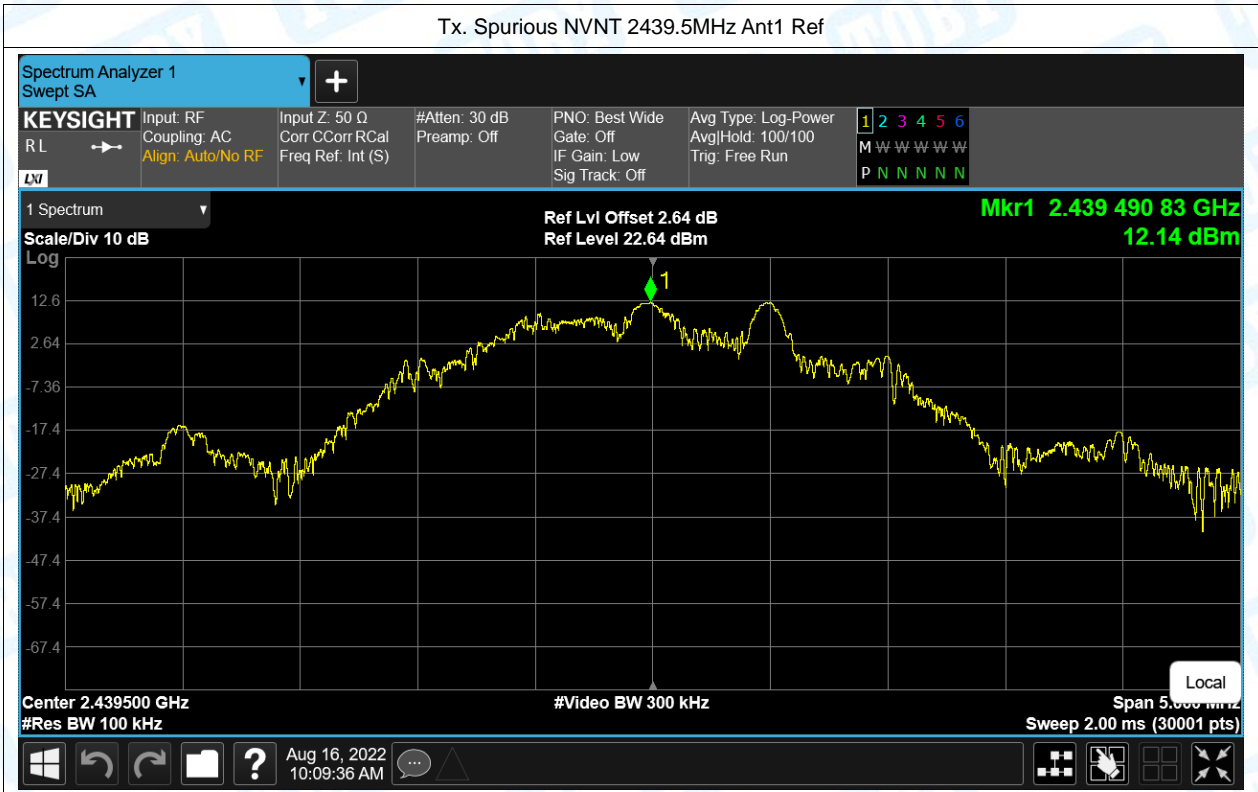
Tx. Spurious NVNT 2409.5MHz Ant1 Ref

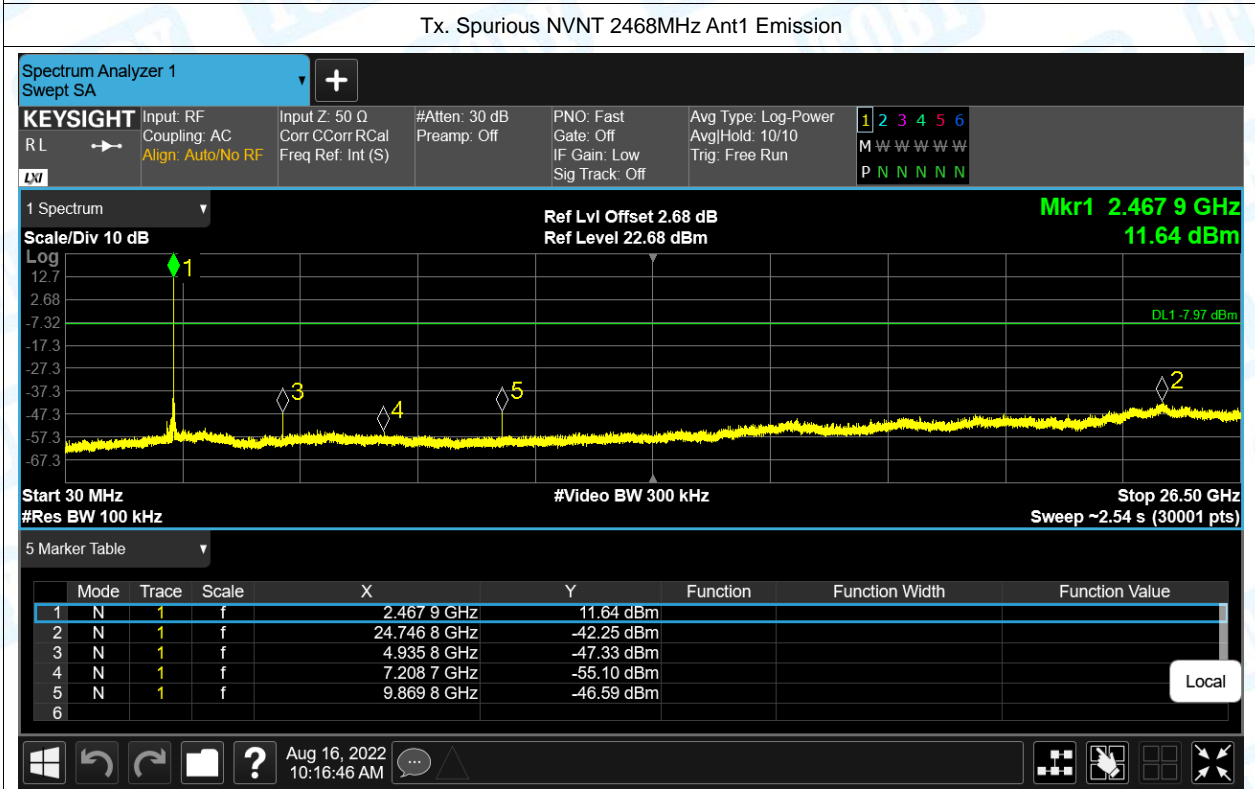
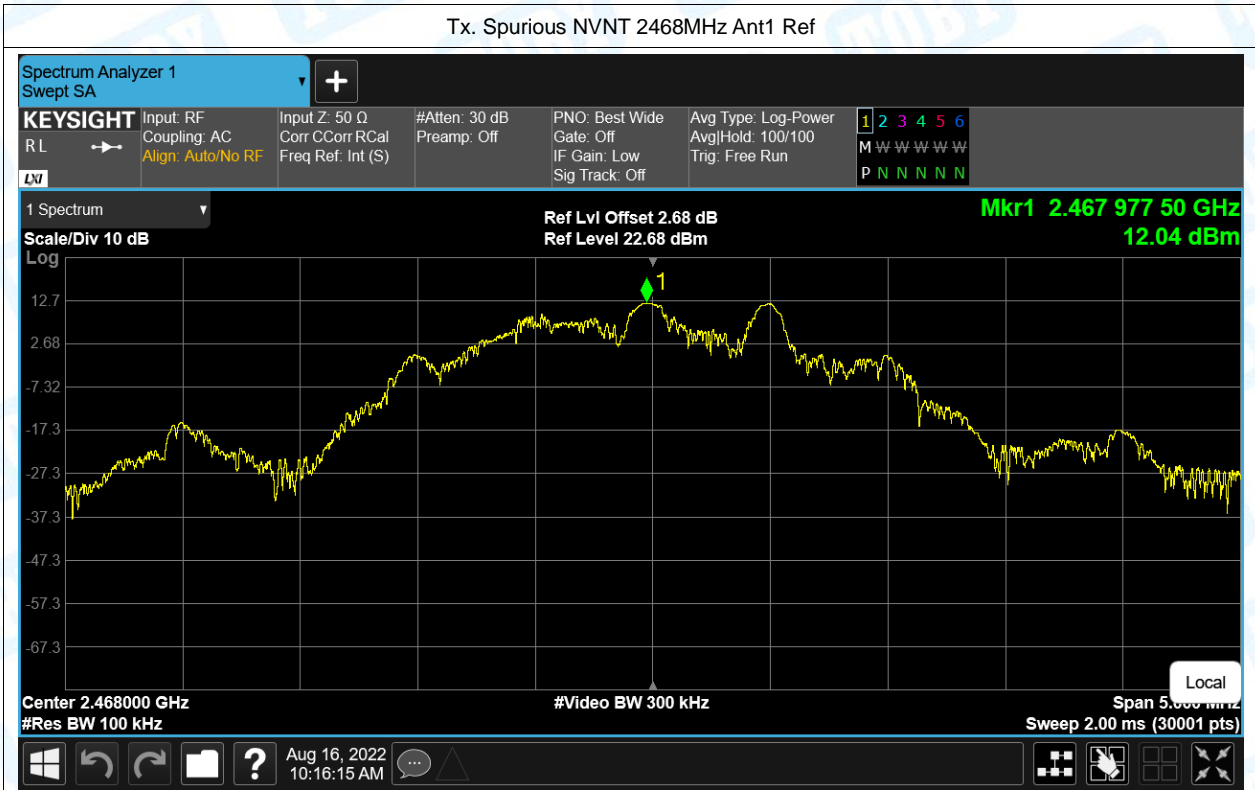


Tx. Spurious NVNT 2409.5MHz Ant1 Emission









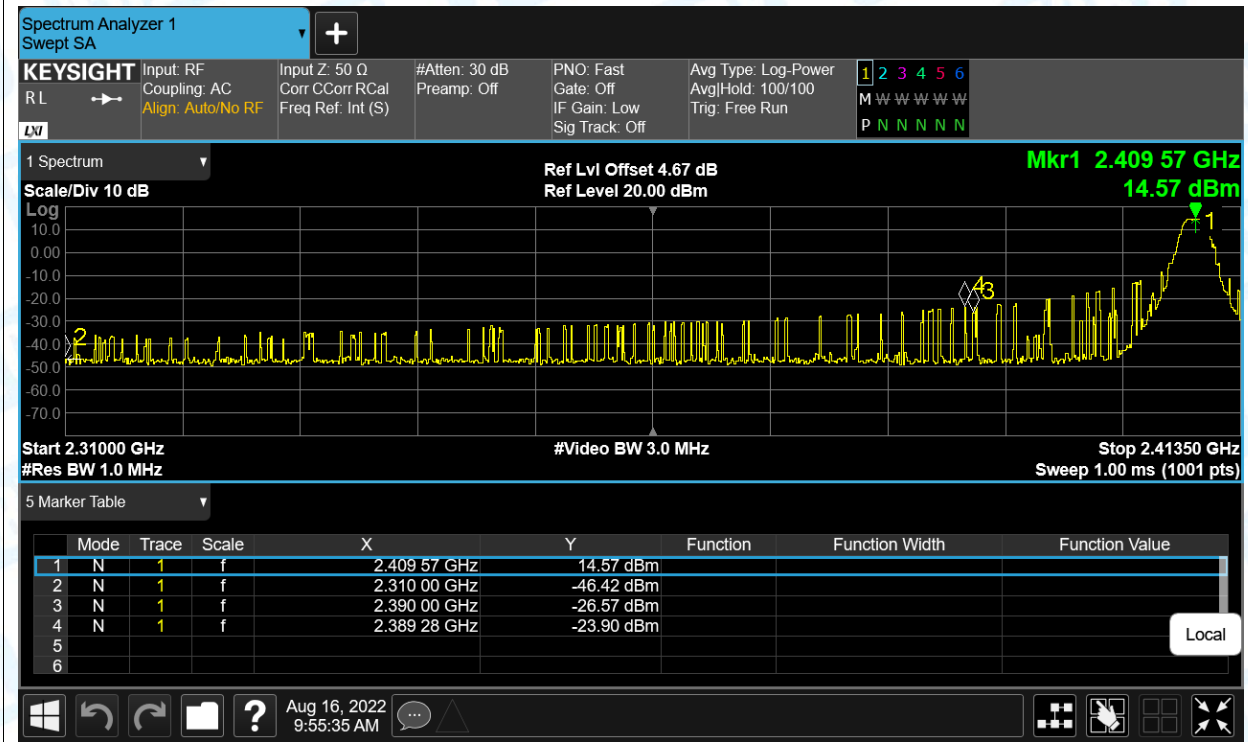


## 8. Restrict Band

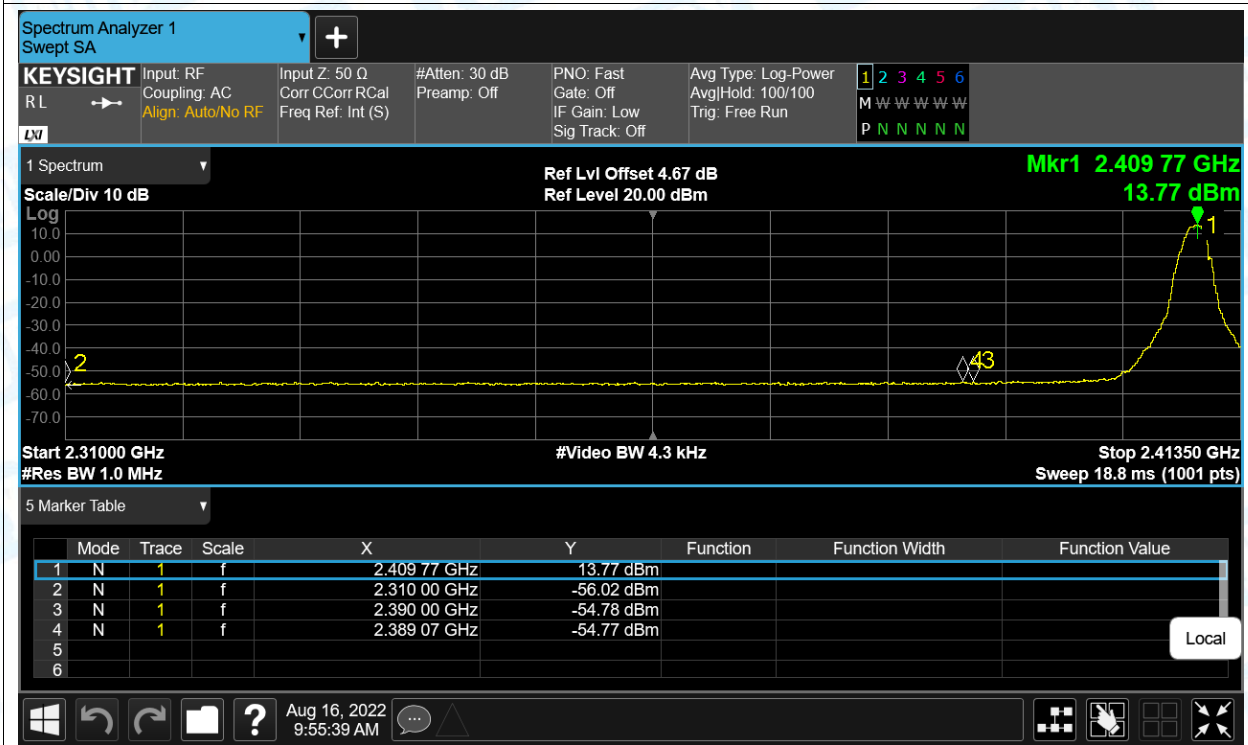
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	GFSK	2409.5	Ant1	No-Hopping	2310	-46.42	2	50.84	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2310	-56.02	2	41.24	Average	54	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2389.281	-23.9	2	73.36	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2389.074	-54.77	2	42.49	Average	54	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2390	-26.57	2	70.69	Peak	74	Pass
NVNT	GFSK	2409.5	Ant1	No-Hopping	2390	-54.78	2	42.48	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.5	-45.7	2	51.56	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.5	-55.04	2	42.22	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2483.728	-26.14	2	71.12	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2484.232	-54.54	2	42.72	Average	54	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2500	-47.4	2	49.86	Peak	74	Pass
NVNT	GFSK	2468	Ant1	No-Hopping	2500	-55.59	2	41.67	Average	54	Pass

Test Graphs

Restrict Band NVNT 2409.5MHz Ant1 No-Hopping Peak

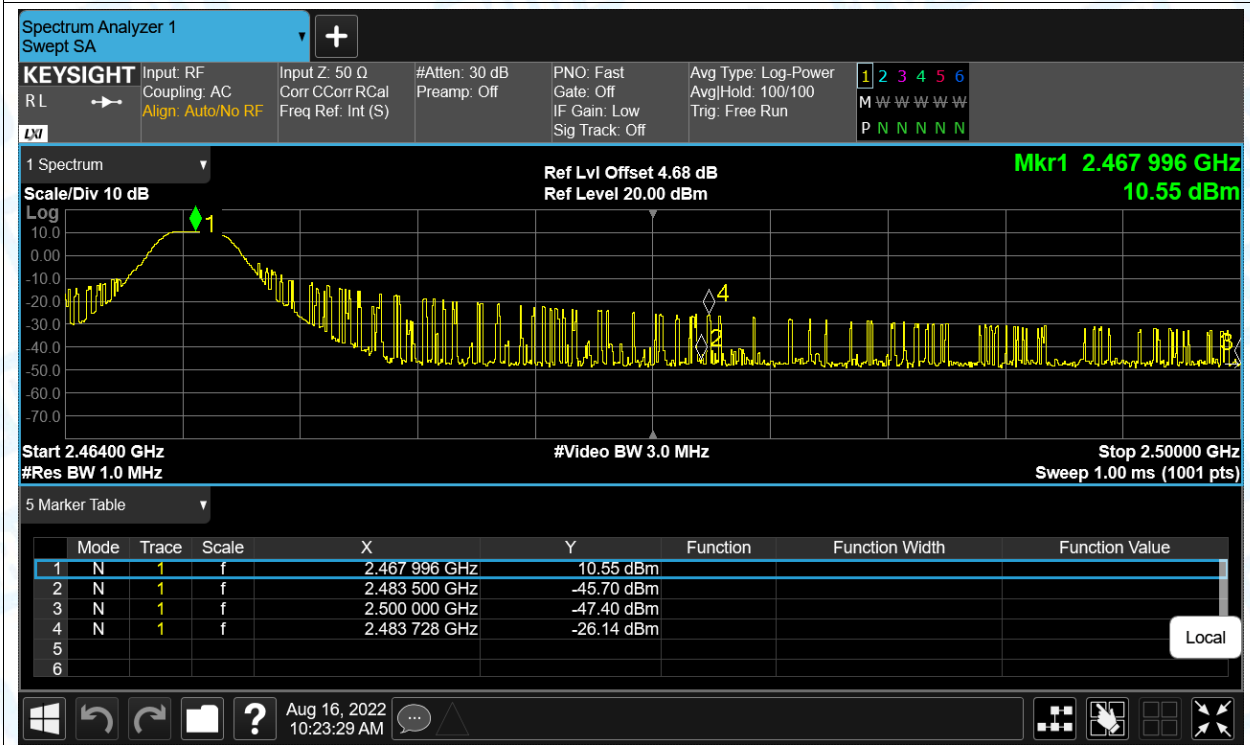


Restrict Band NVNT 2409.5MHz Ant1 No-Hopping Average

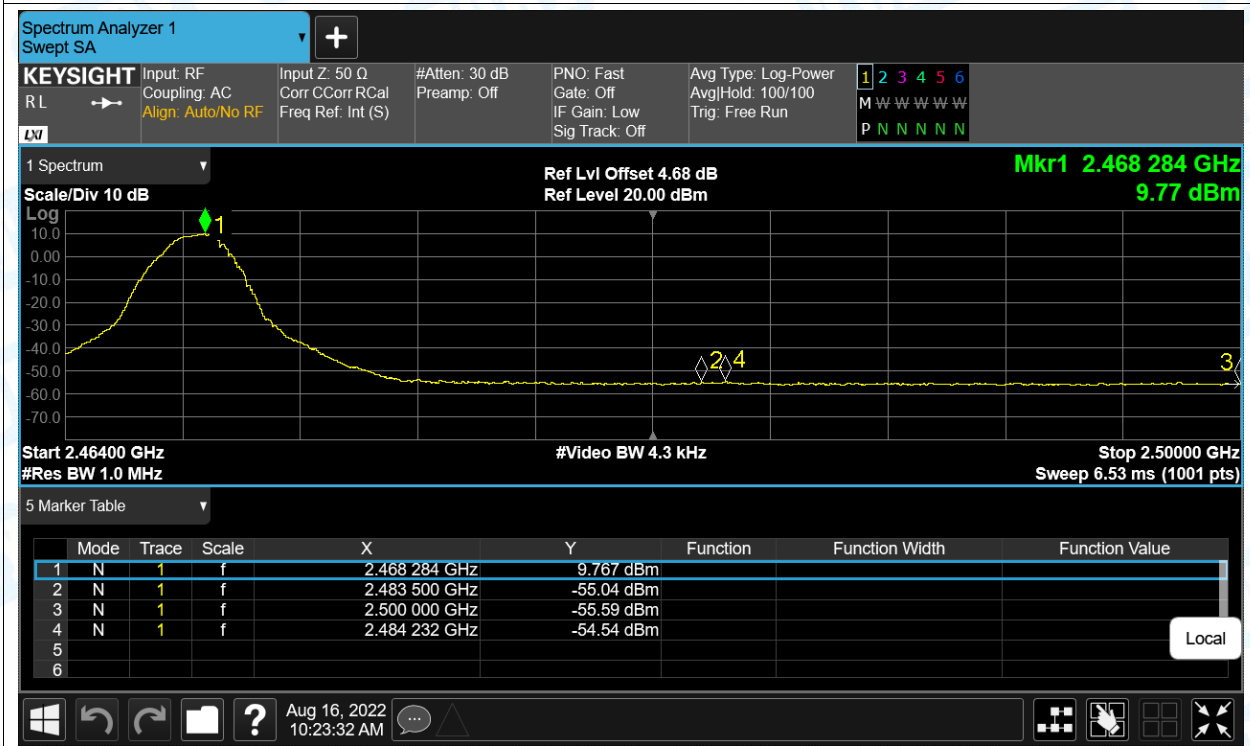




### Restrict Band NVNT 2468MHz Ant1 No-Hopping Peak



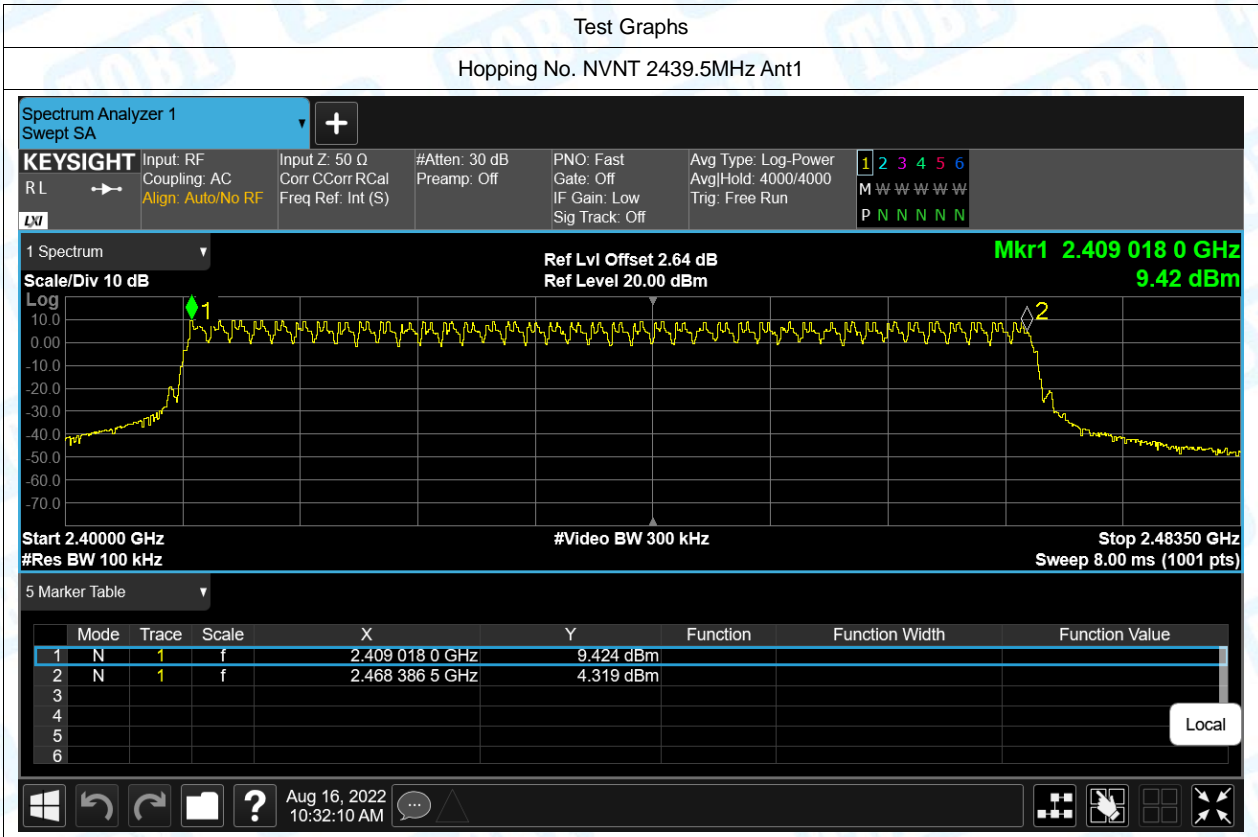
### Restrict Band NVNT 2468MHz Ant1 No-Hopping Average



## 9. Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	GFSK	Ant1	40	15	Pass

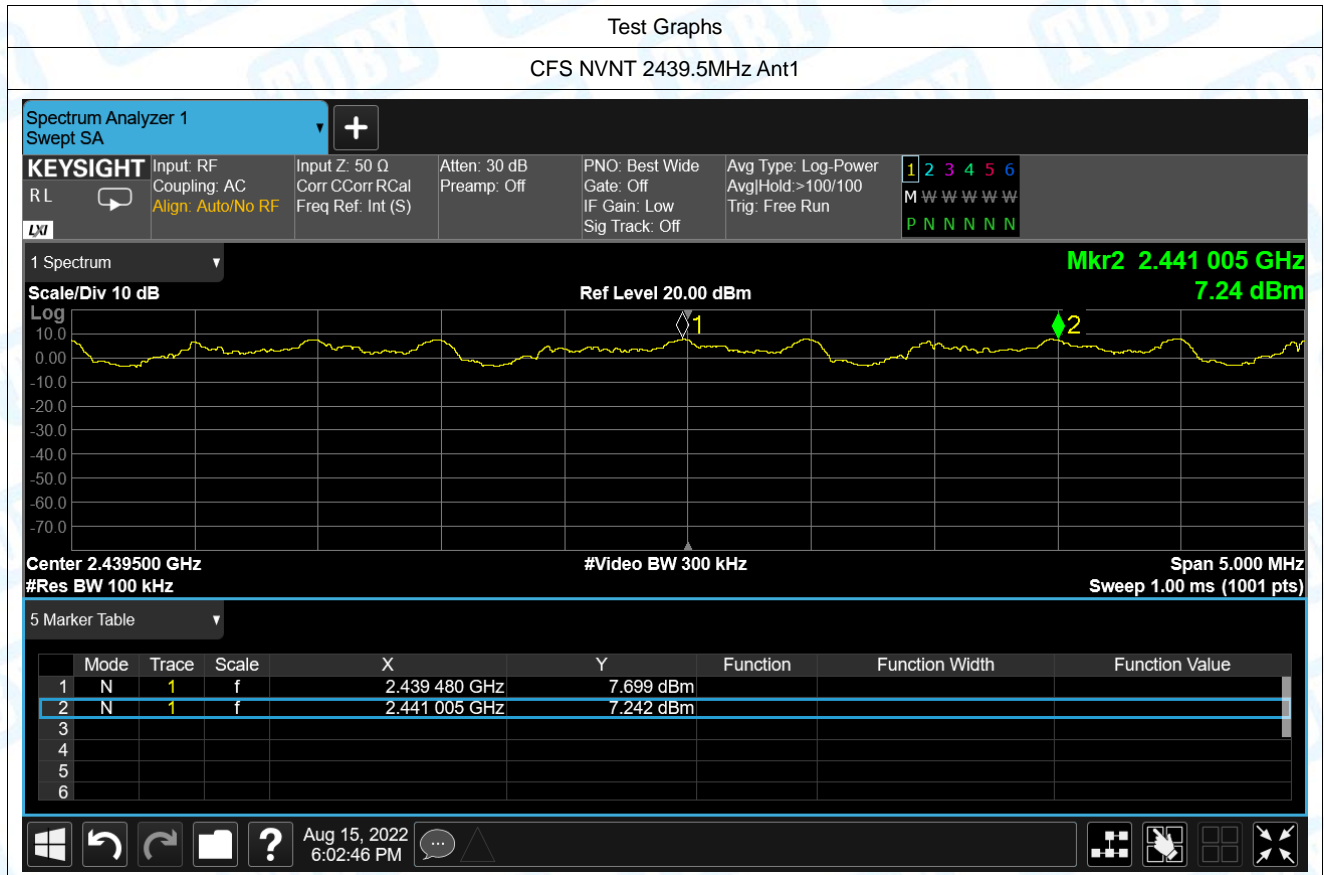




## 10. Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	Ant1	2439.480	2441.005	1.525	0.025	Pass





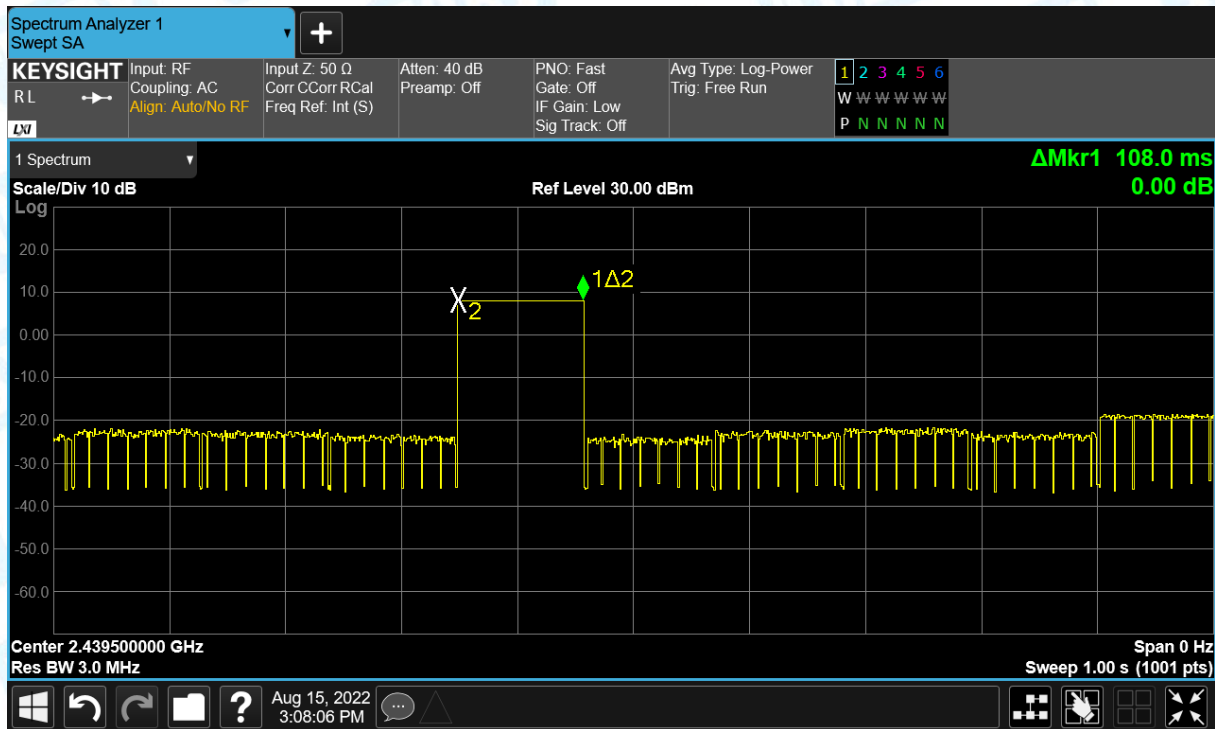
## 11.Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	GFSK	2442	Ant1	108	324	31600	400	Pass



Test Graphs

Dwell NVNT 2439.5MHz Ant1



Dwell NVNT 2439.5MHz Ant1

