



Appendix A

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Light bar

Test Model: PXLB1BK

Environmental Conditions

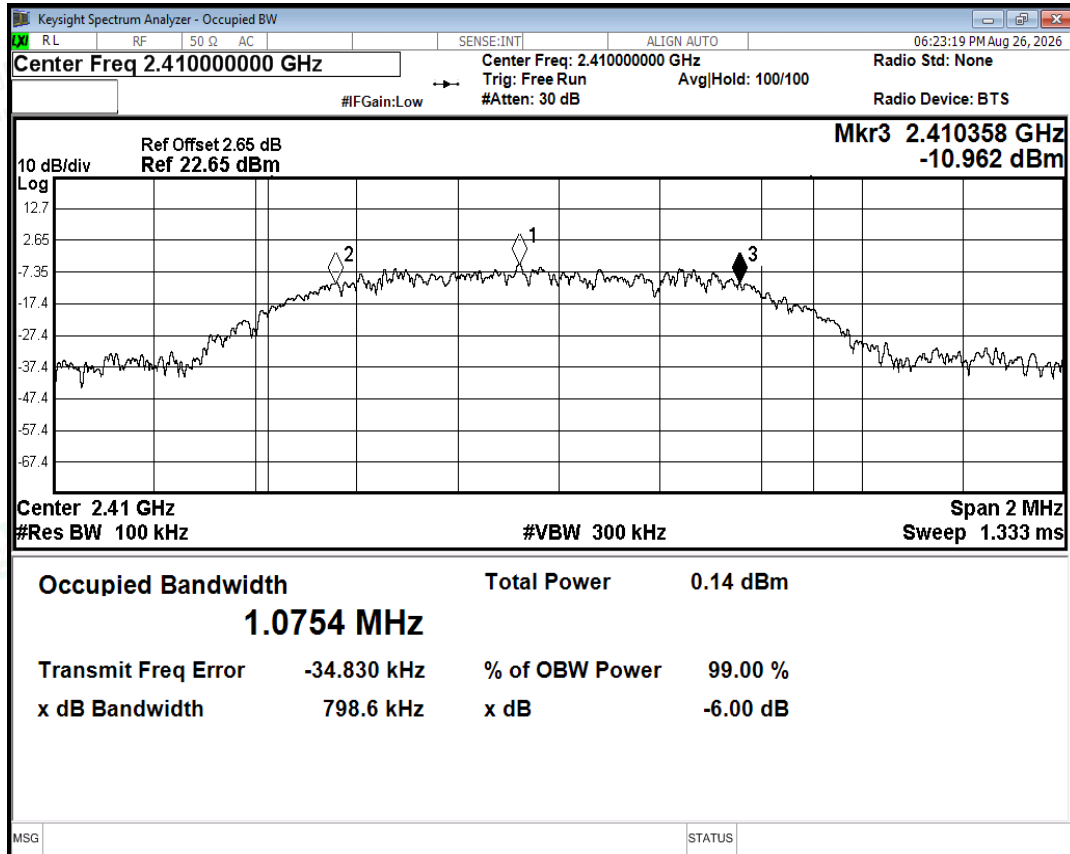
Temperature:	23.5°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



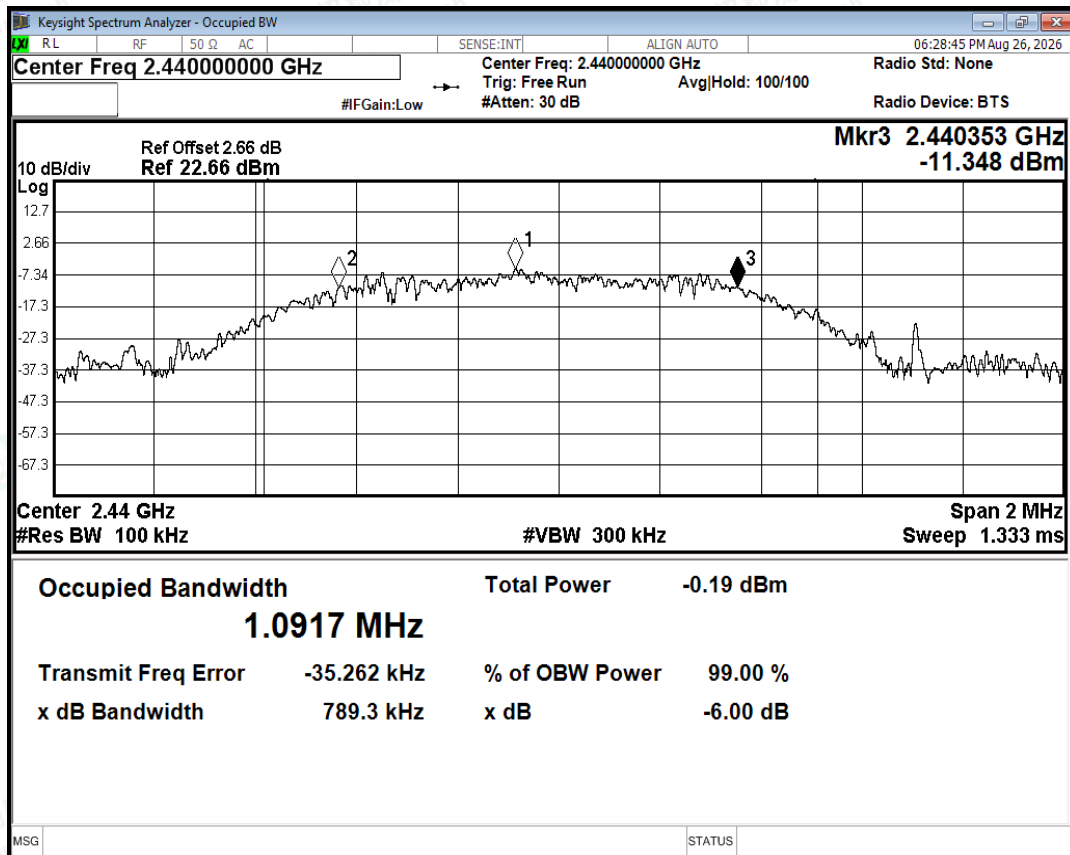
A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2410	Ant1	0.7986	0.5	Pass
NVNT	2.4G	2440	Ant1	0.7893	0.5	Pass
NVNT	2.4G	2475	Ant1	0.8282	0.5	Pass

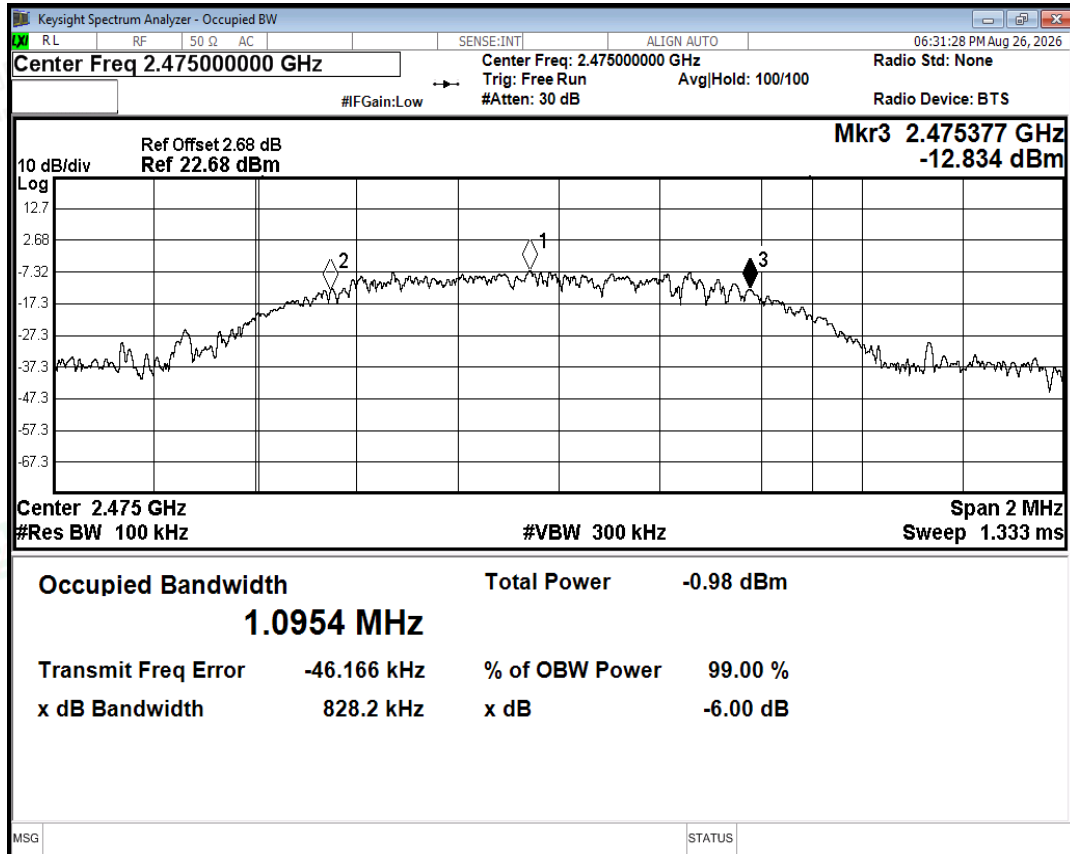




-6dB Bandwidth NVNT 2.4G 2410MHz Ant1



-6dB Bandwidth NVNT 2.4G 2440MHz Ant1

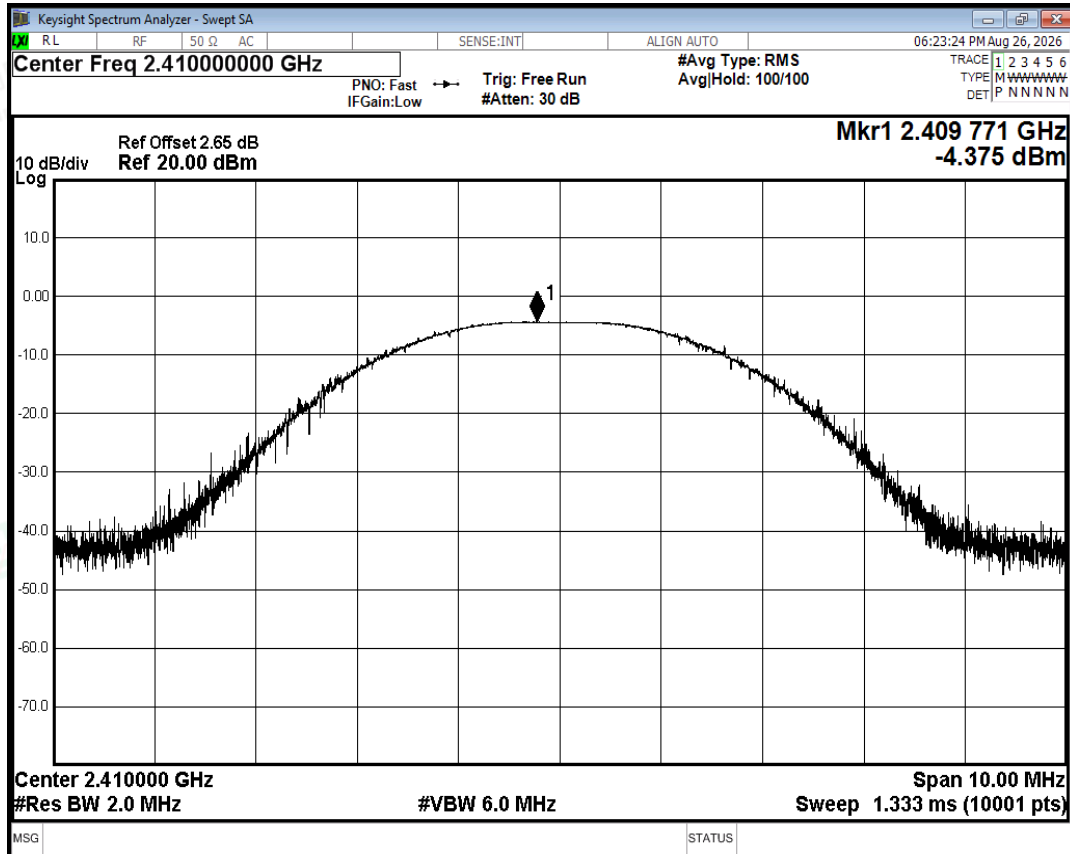


-6dB Bandwidth NVNT 2.4G 2475MHz Ant1

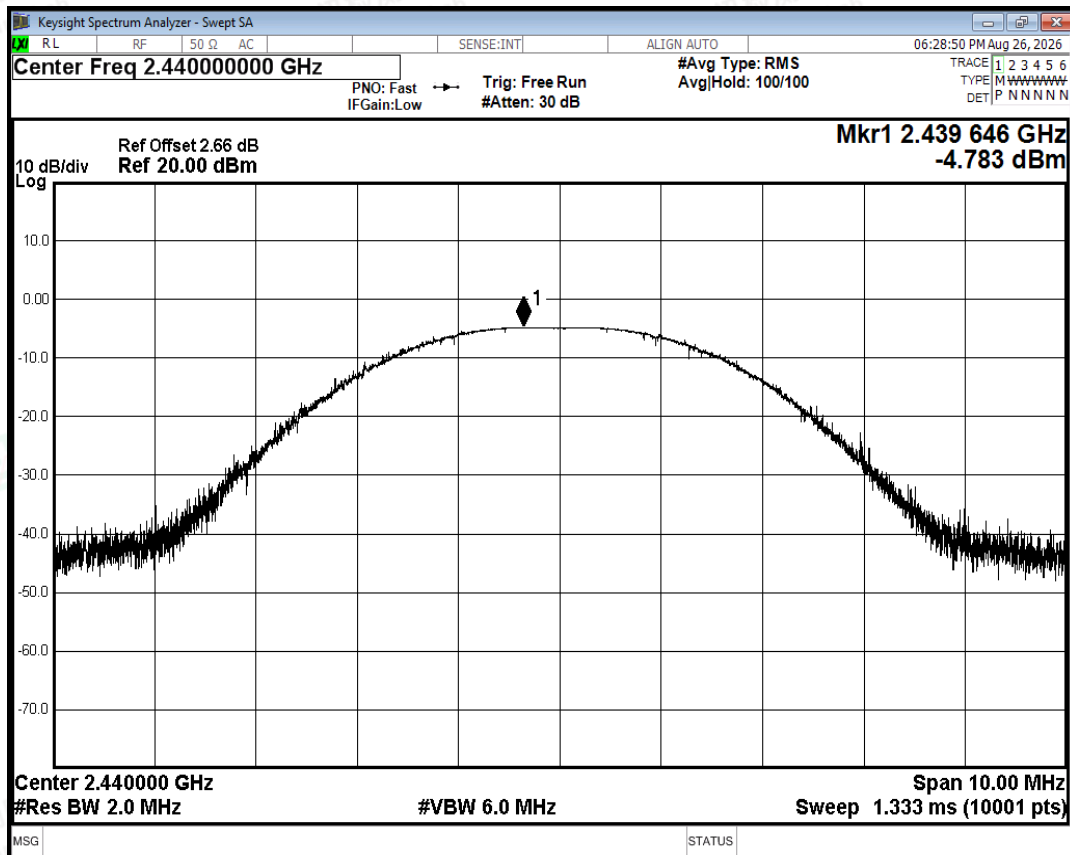


A.2 Maximum peak conducted output power

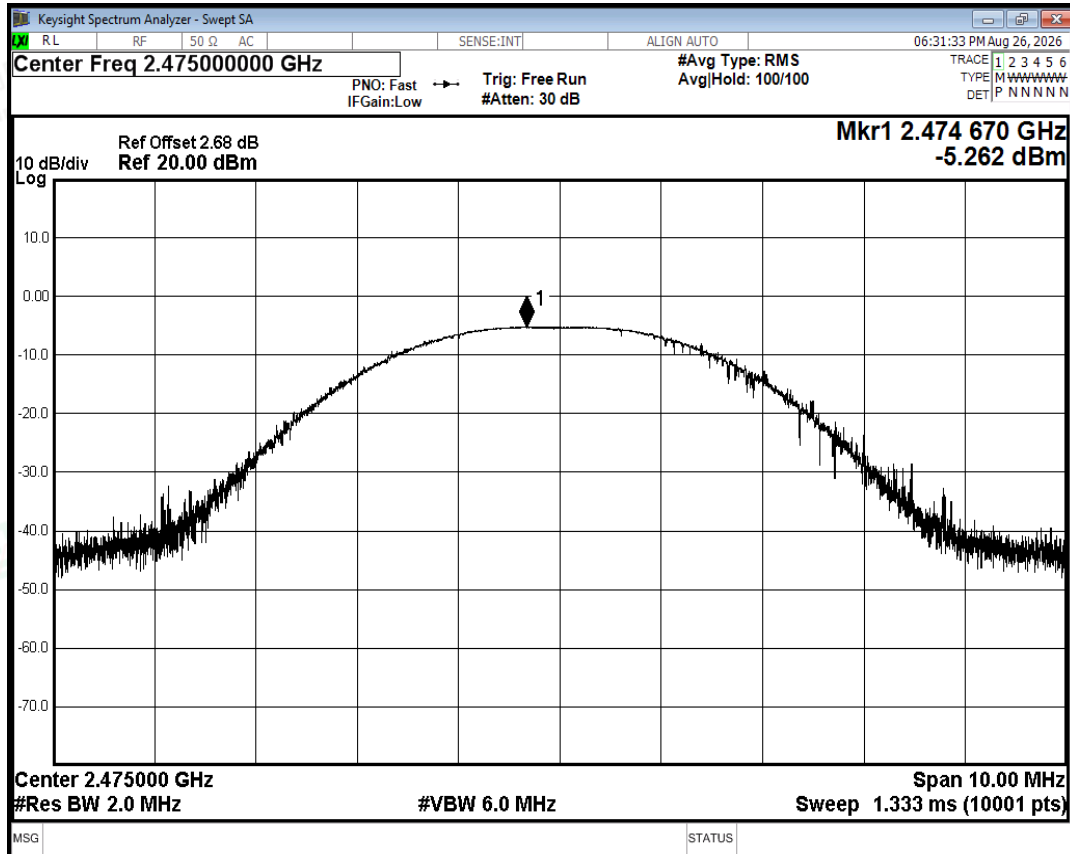
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	2.4G	2410	Ant1	-4.38	30	Pass
NVNT	2.4G	2440	Ant1	-4.78	30	Pass
NVNT	2.4G	2475	Ant1	-5.26	30	Pass



Peak Power NVNT 2.4G 2410MHz Ant1



Peak Power NVNT 2.4G 2440MHz Ant1



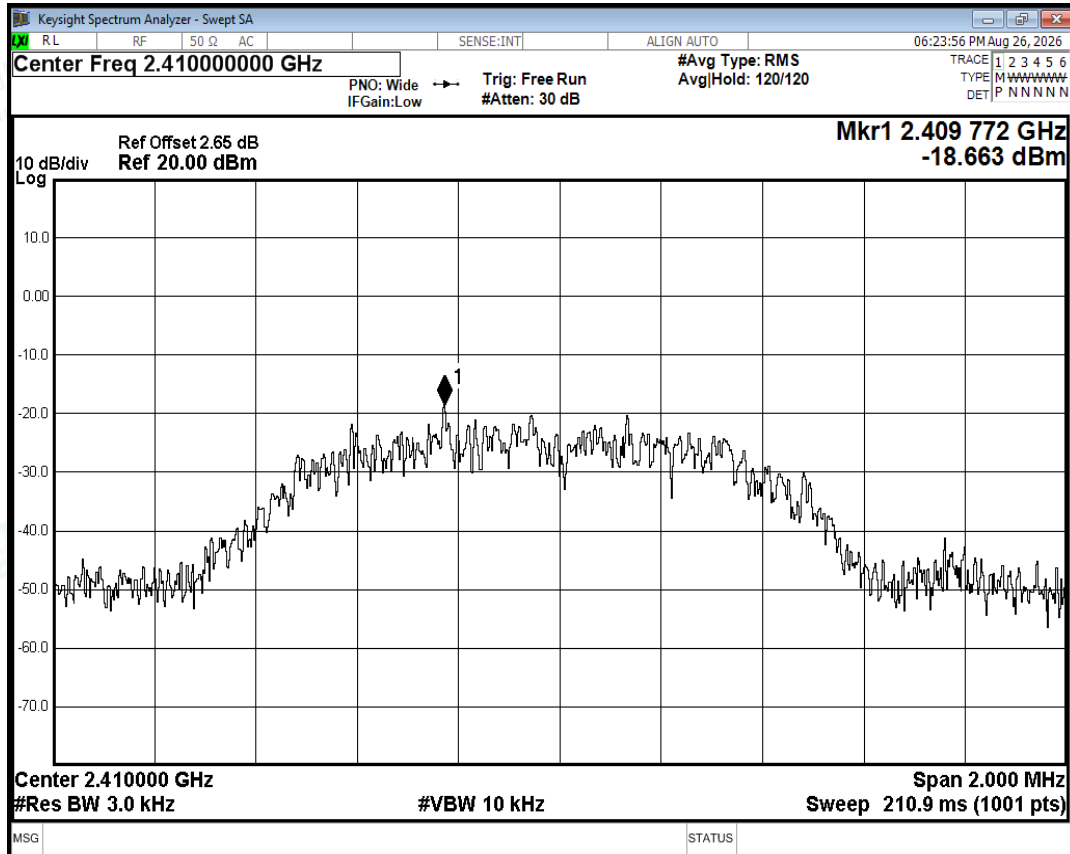
Peak Power NVNT 2.4G 2475MHz Ant1



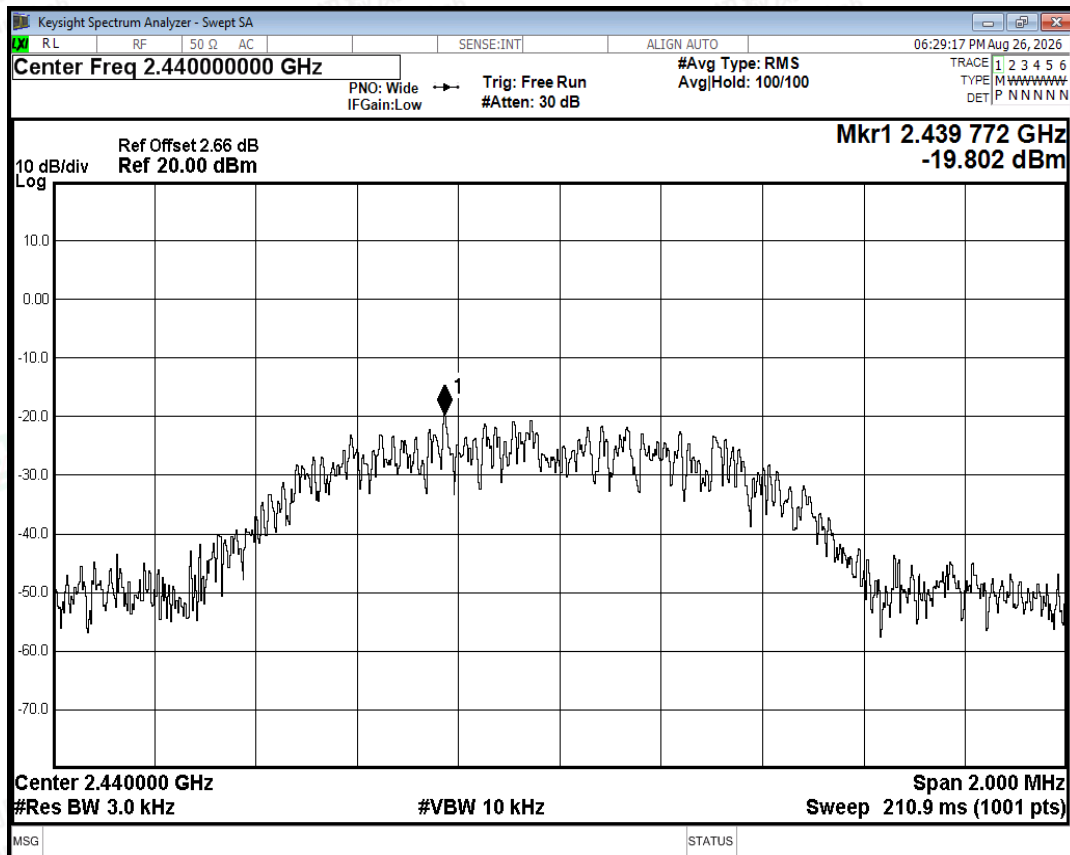
A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2410	Ant1	-18.66	8	Pass
NVNT	2.4G	2440	Ant1	-19.8	8	Pass
NVNT	2.4G	2475	Ant1	-20.89	8	Pass

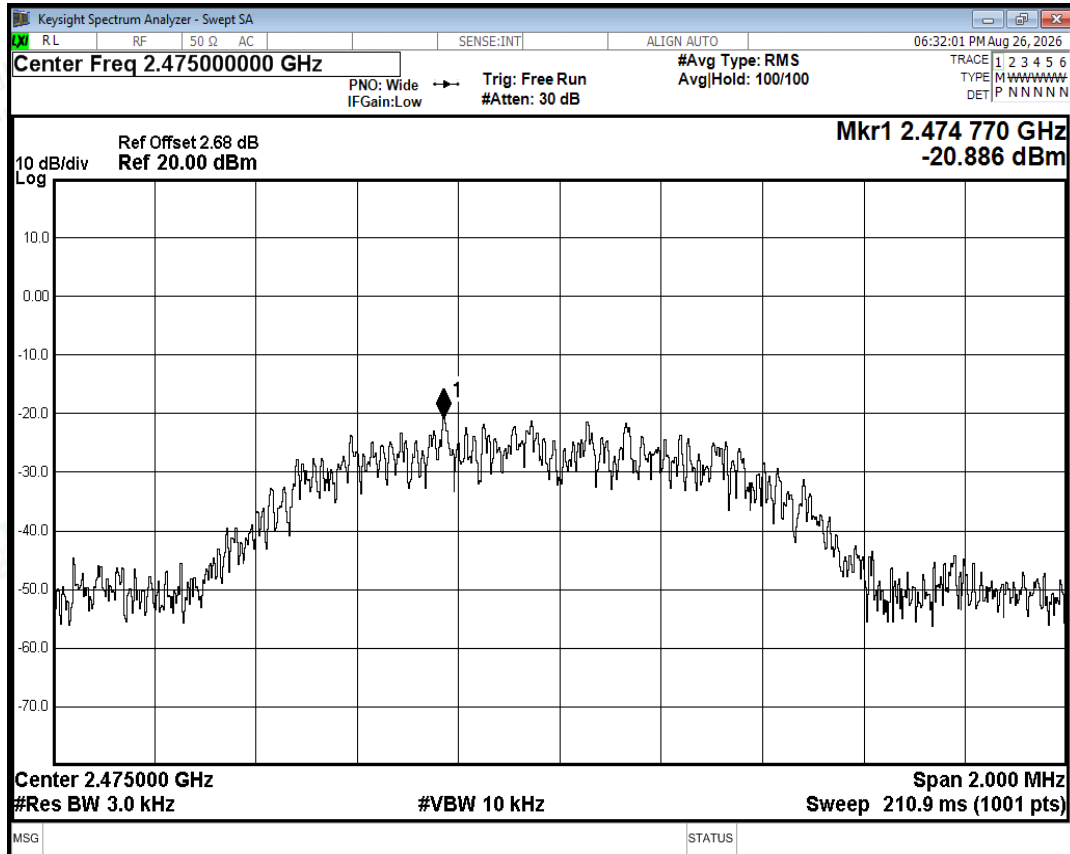




PSD NVNT 2.4G 2410MHz Ant1



PSD NVNT 2.4G 2440MHz Ant1



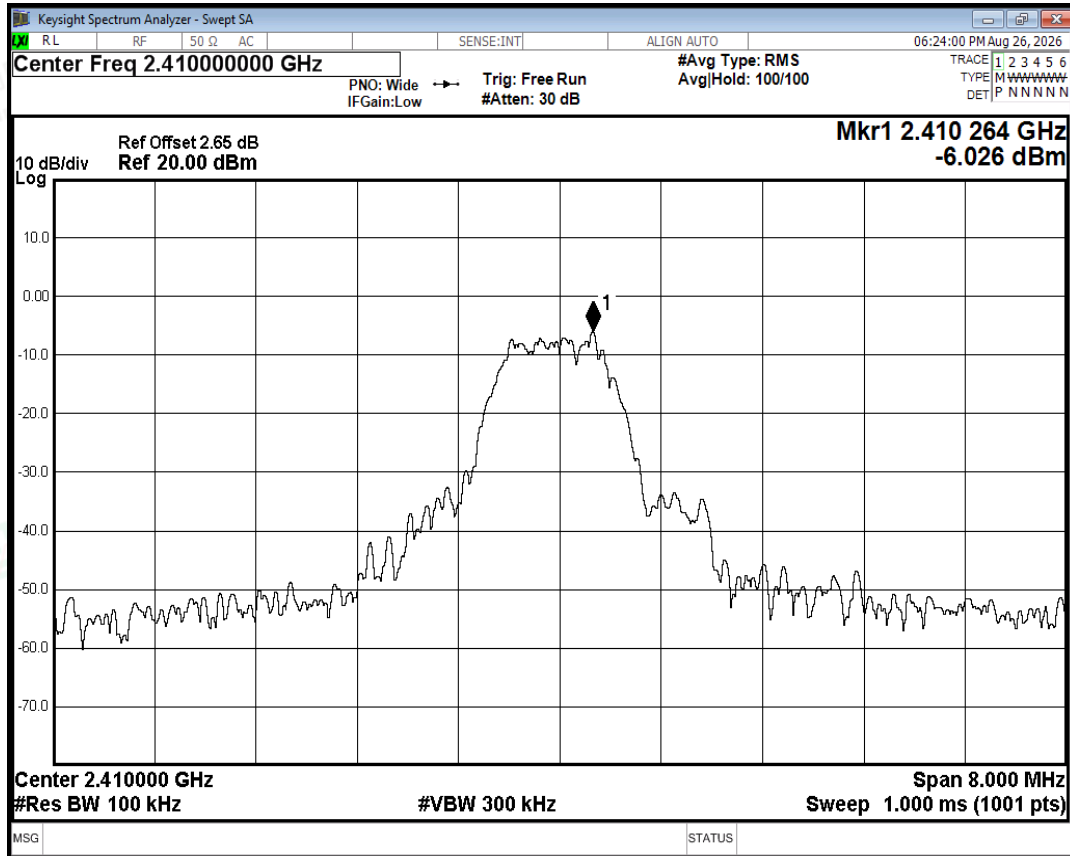
PSD NVNT 2.4G 2475MHz Ant1



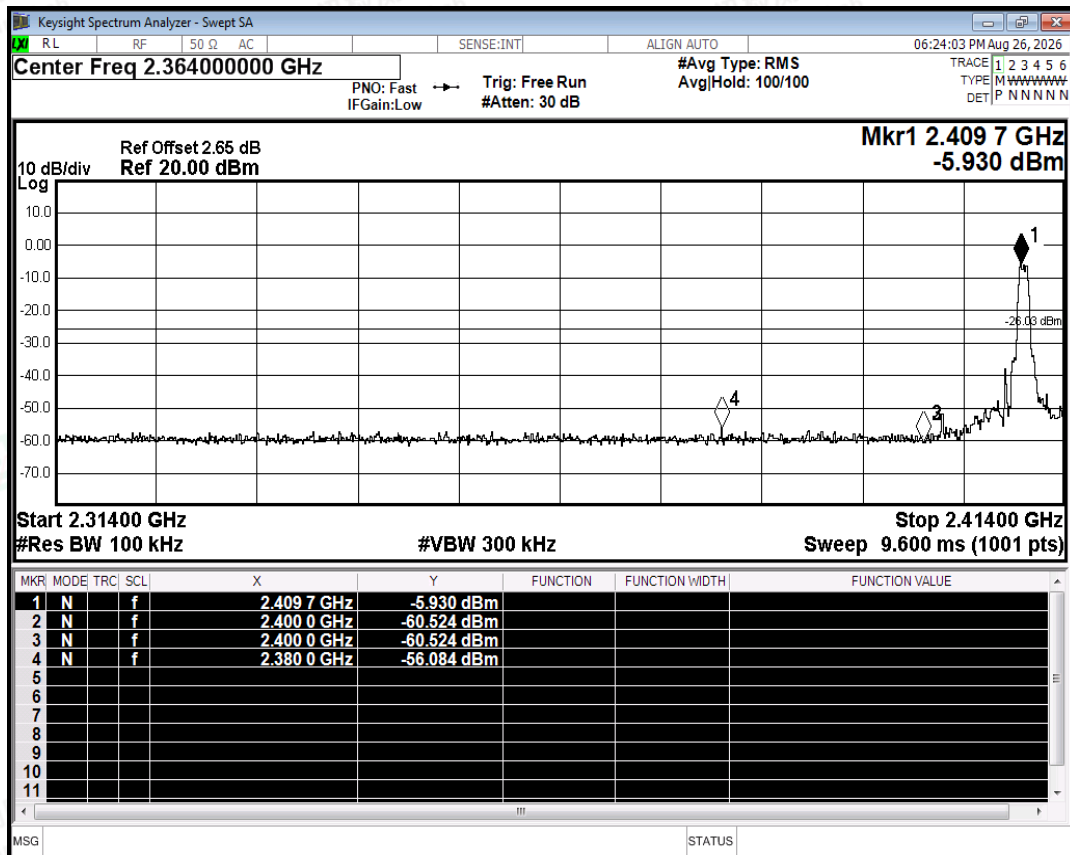
A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2410	Ant1	-50.05	-20	Pass
NVNT	2.4G	2475	Ant1	-50.78	-20	Pass

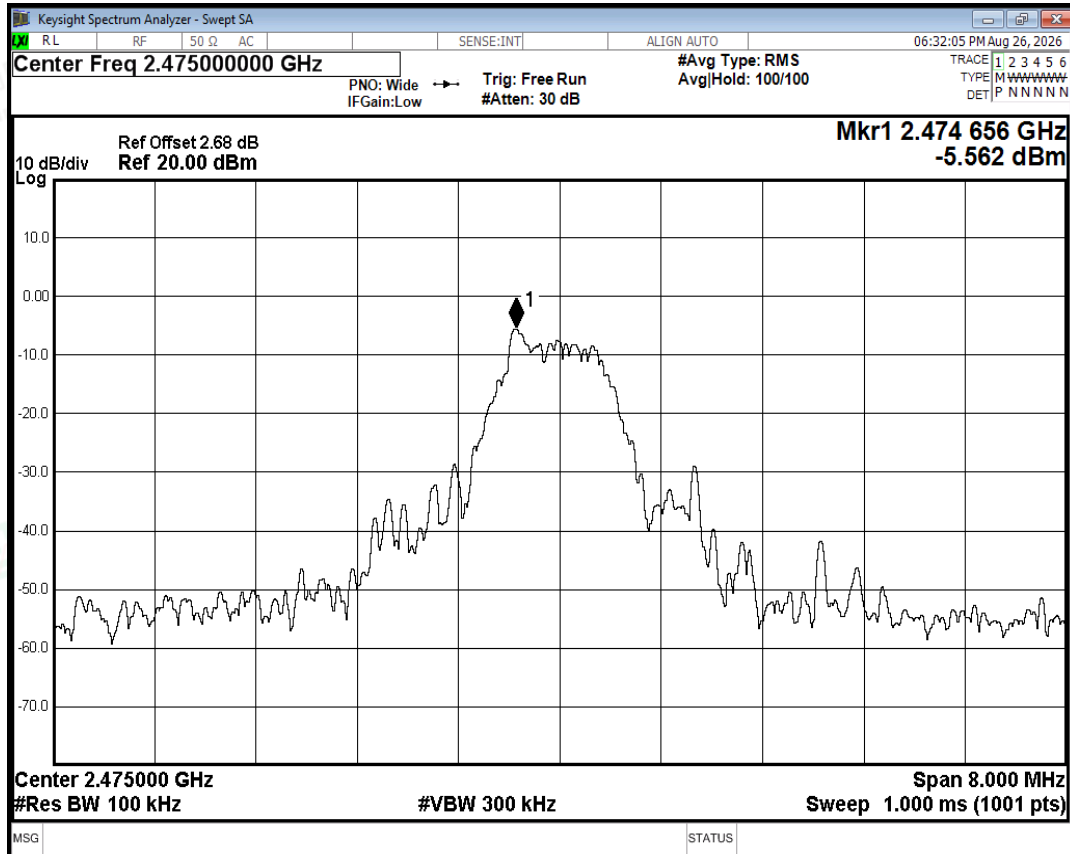




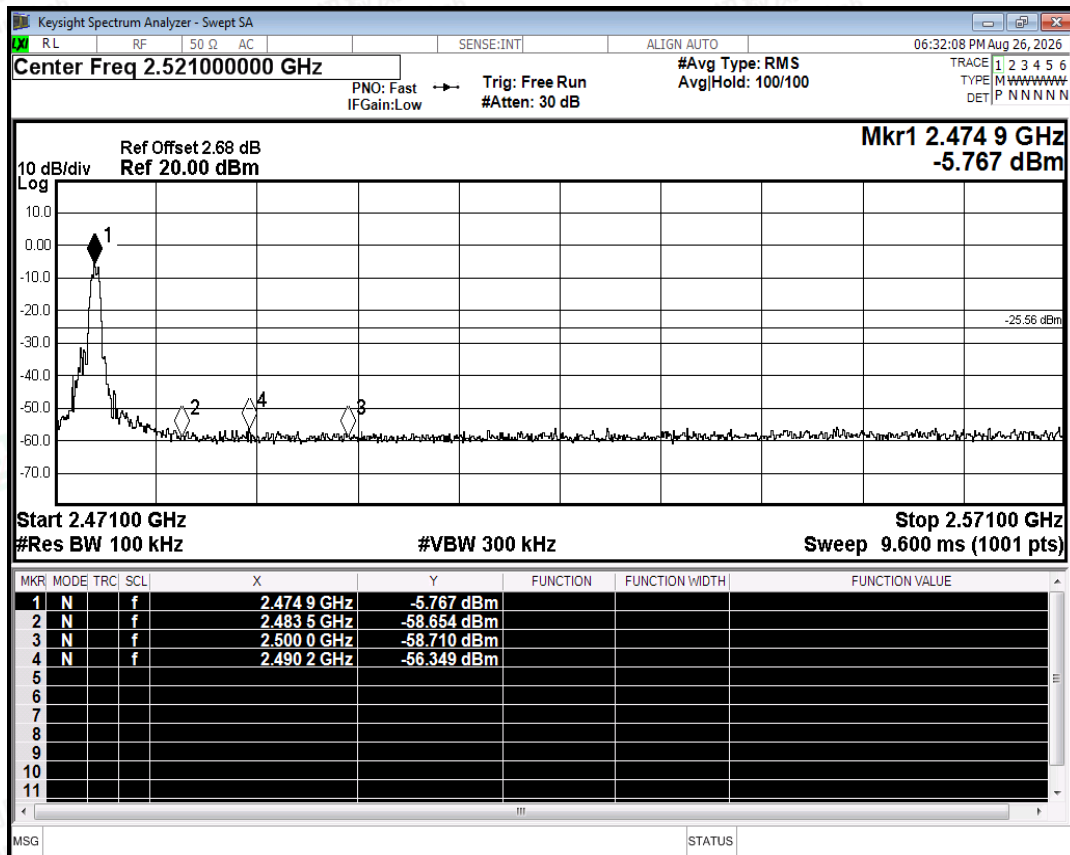
Band Edge NVNT 2.4G 2410MHz Ant1 Ref



Band Edge NVNT 2.4G 2410MHz Ant1 Emission



Band Edge NVNT 2.4G 2475MHz Ant1 Ref



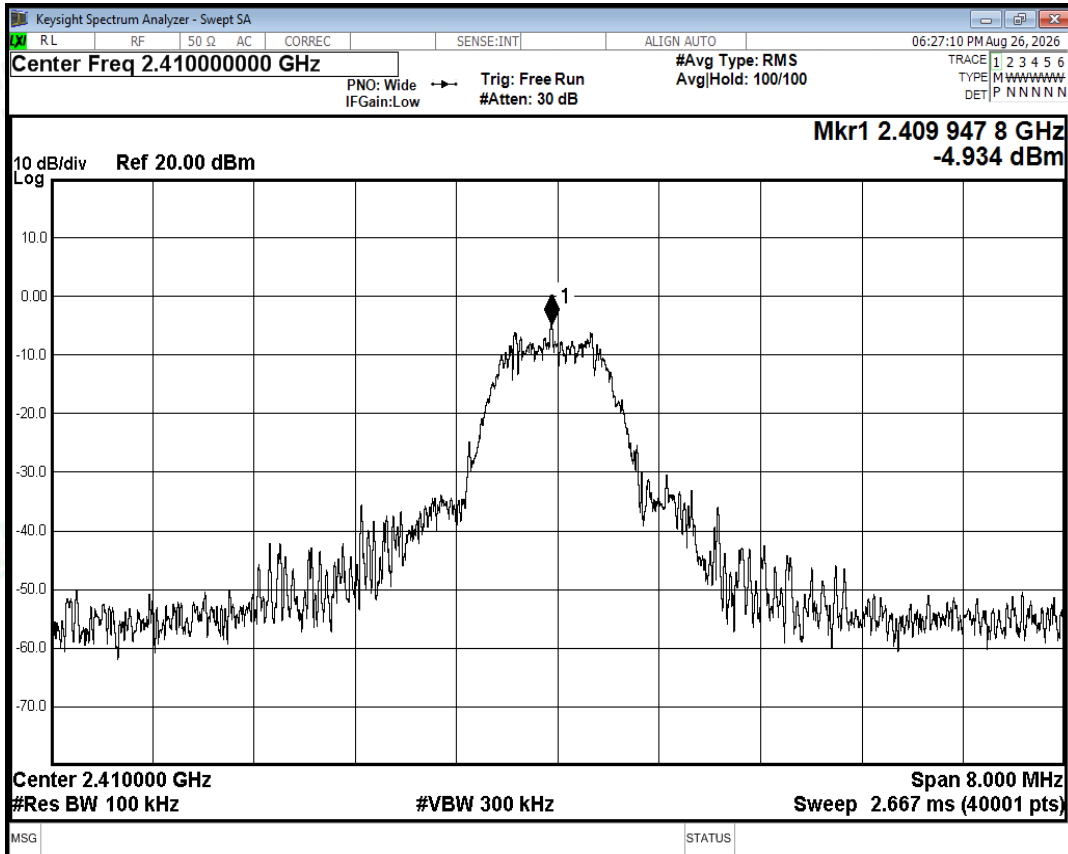
Band Edge NVNT 2.4G 2475MHz Ant1 Emission



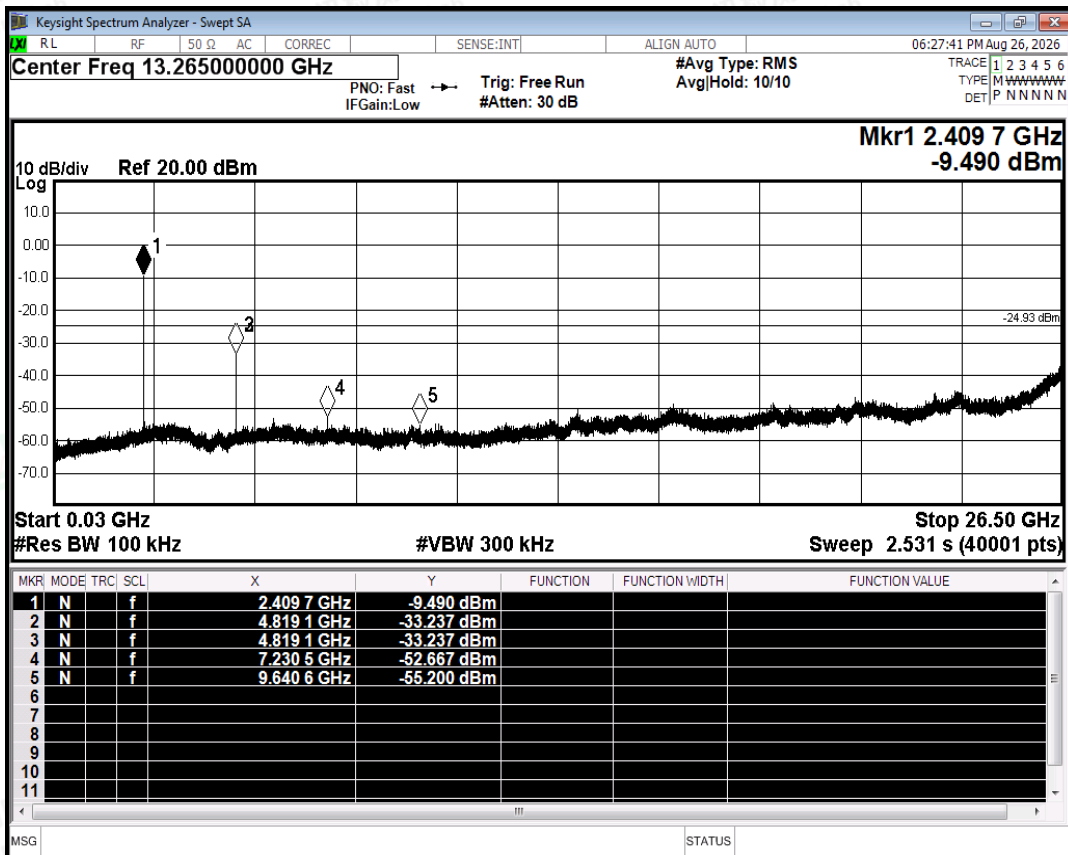
A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2410	Ant1	-28.3	-20	Pass
NVNT	2.4G	2440	Ant1	-28.93	-20	Pass
NVNT	2.4G	2475	Ant1	-30.7	-20	Pass

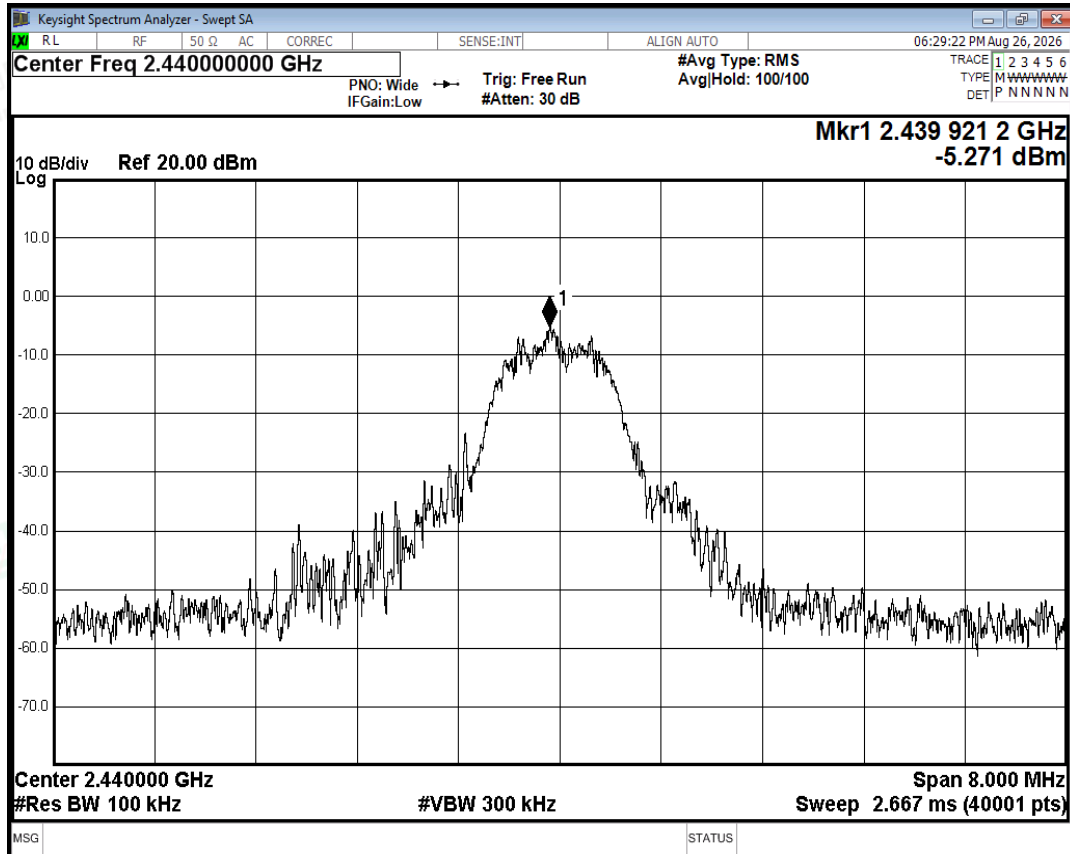




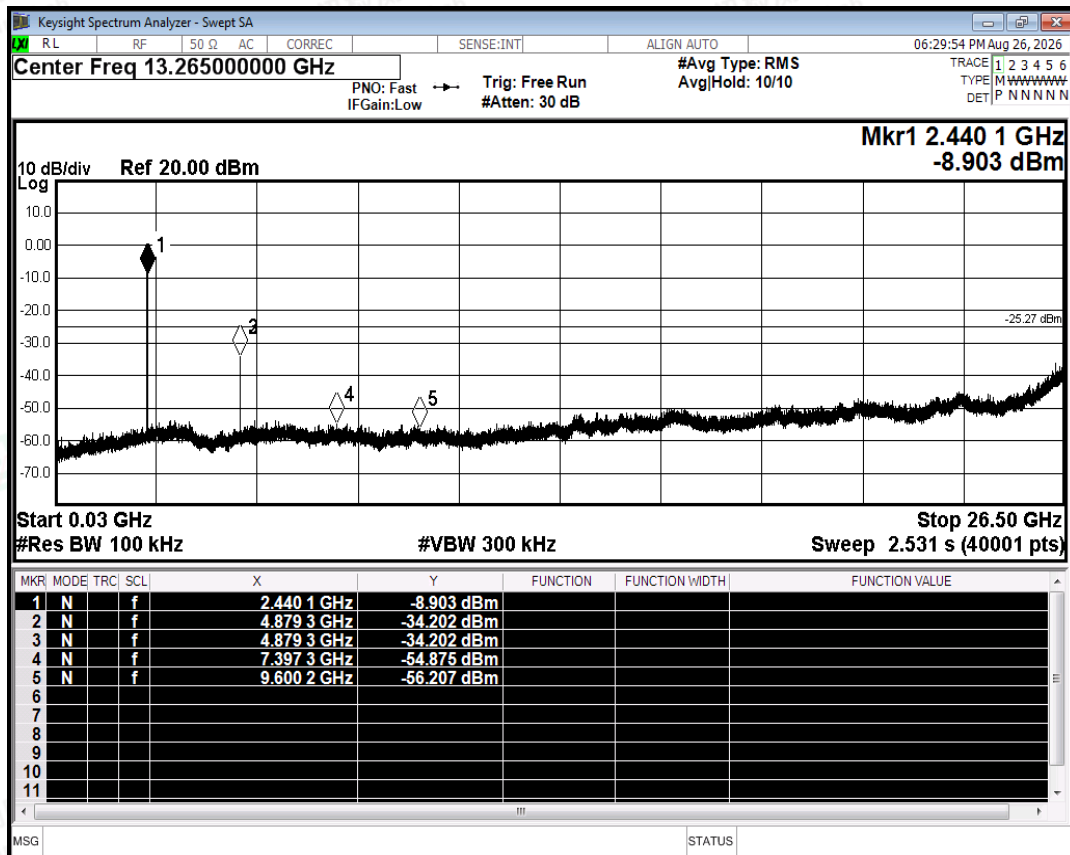
Tx. Spurious NVNT 2.4G 2410MHz Ant1 Ref



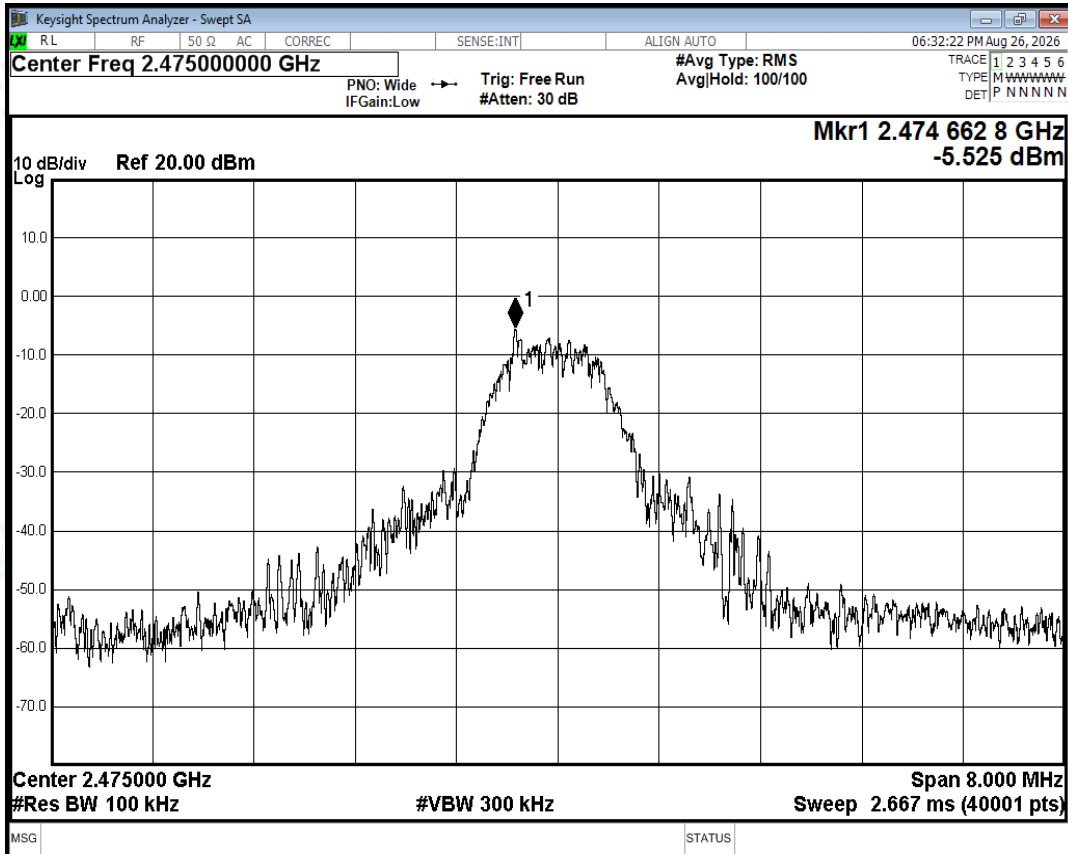
Tx. Spurious NVNT 2.4G 2410MHz Ant1 Emission



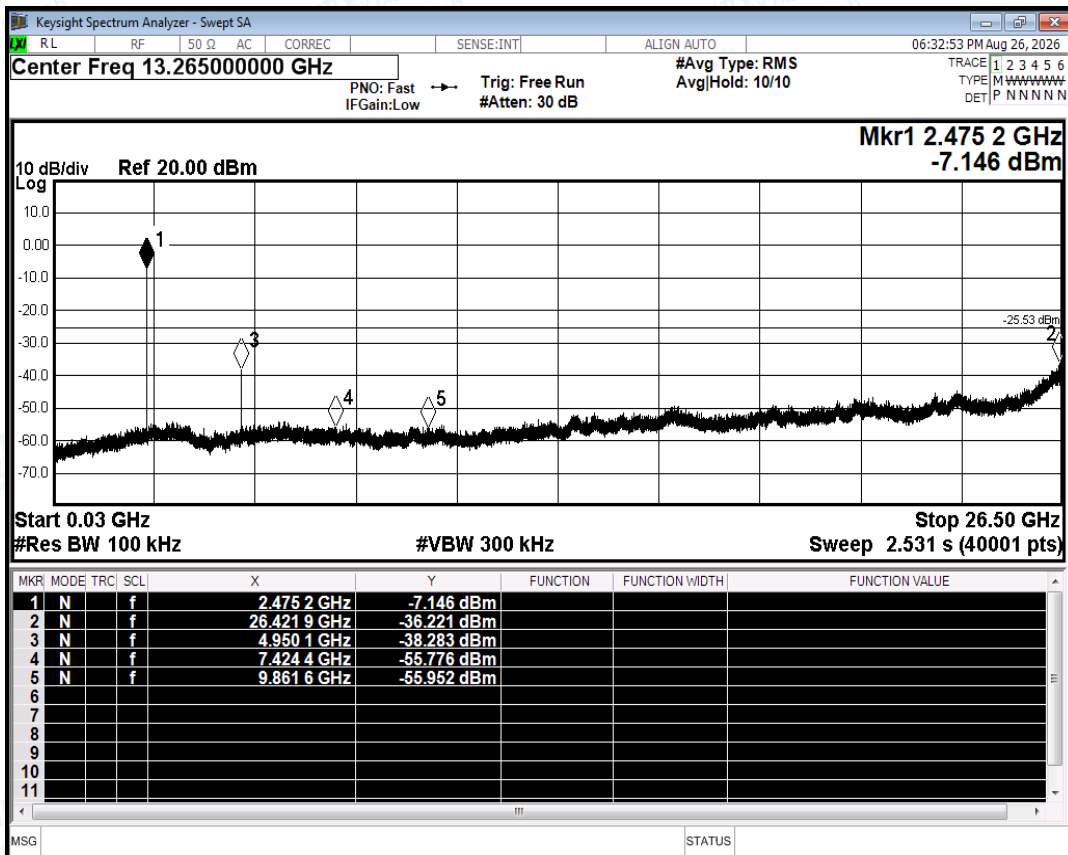
Tx. Spurious NVNT 2.4G 2440MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2440MHz Ant1 Emission



Tx. Spurious NVNT 2.4G 2475MHz Ant1 Ref

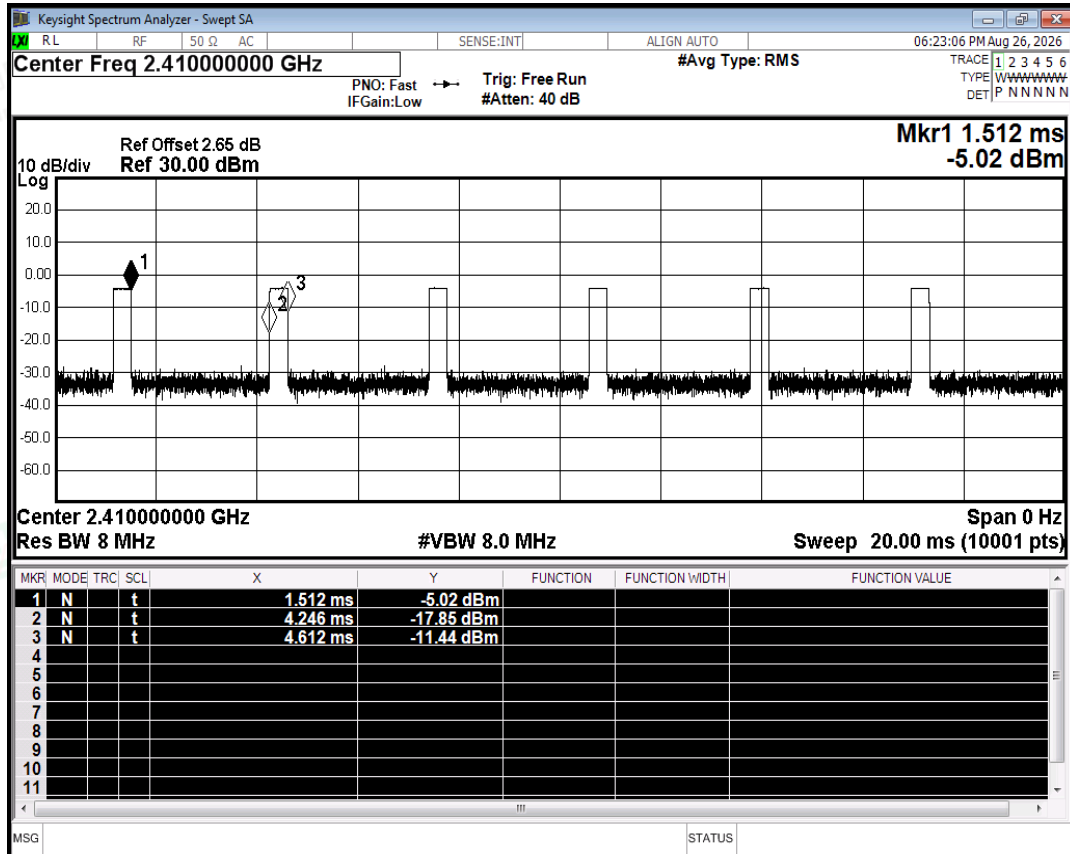


Tx. Spurious NVNT 2.4G 2475MHz Ant1 Emission

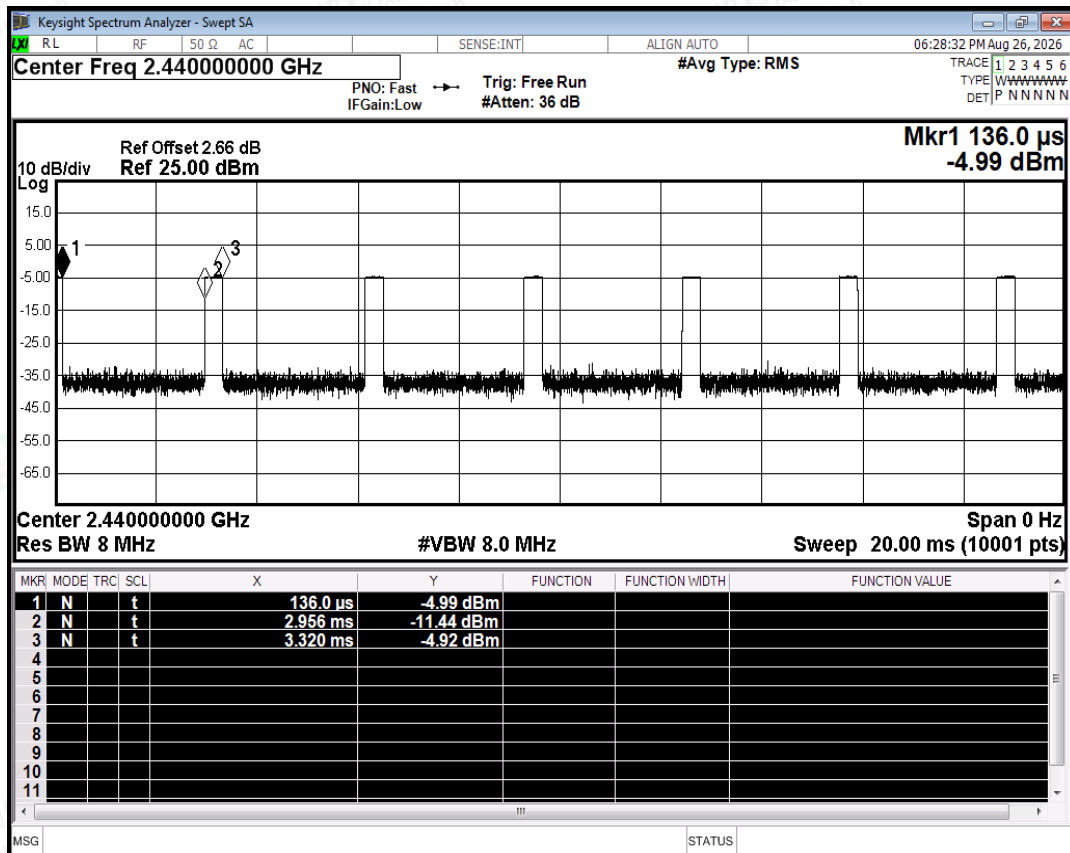


A.6 Duty Cycle

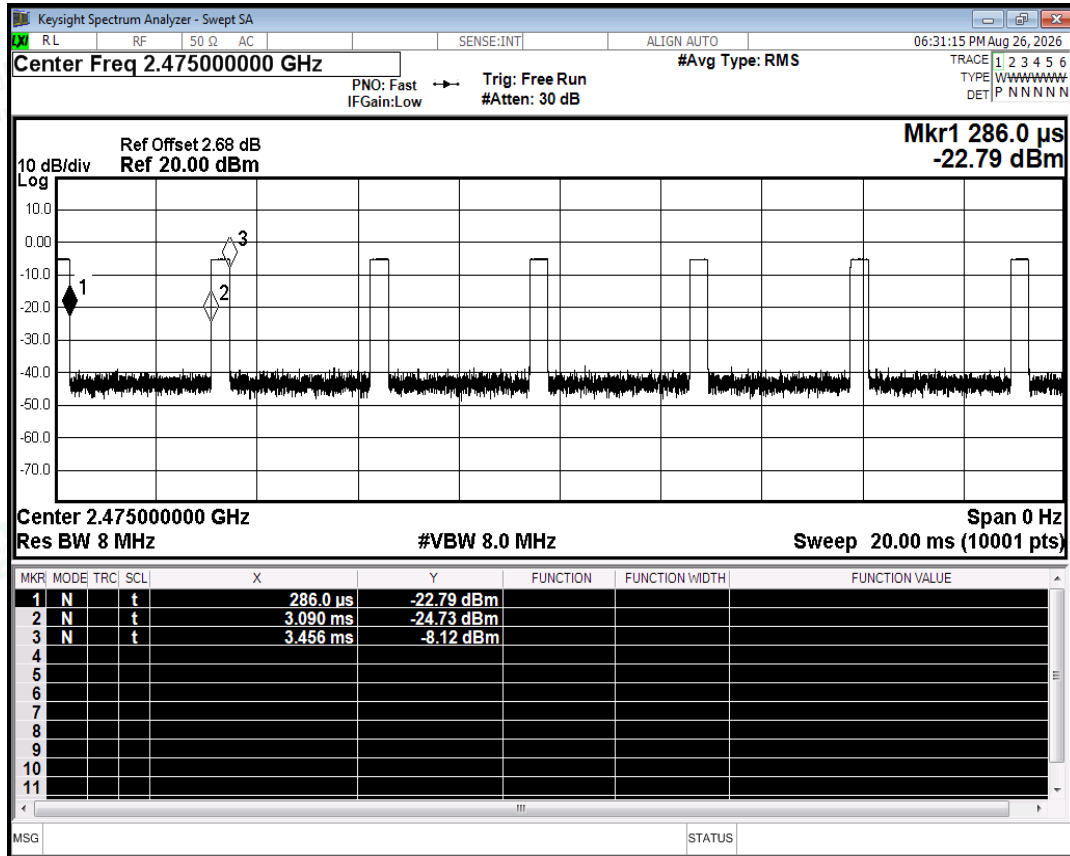
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2410	Ant1	11.81	9.28	2.73
NVNT	2.4G	2440	Ant1	11.43	9.42	2.75
NVNT	2.4G	2475	Ant1	11.55	9.38	2.73



Duty Cycle NVNT 2.4G 2410MHz Ant1



Duty Cycle NVNT 2.4G 2440MHz Ant1

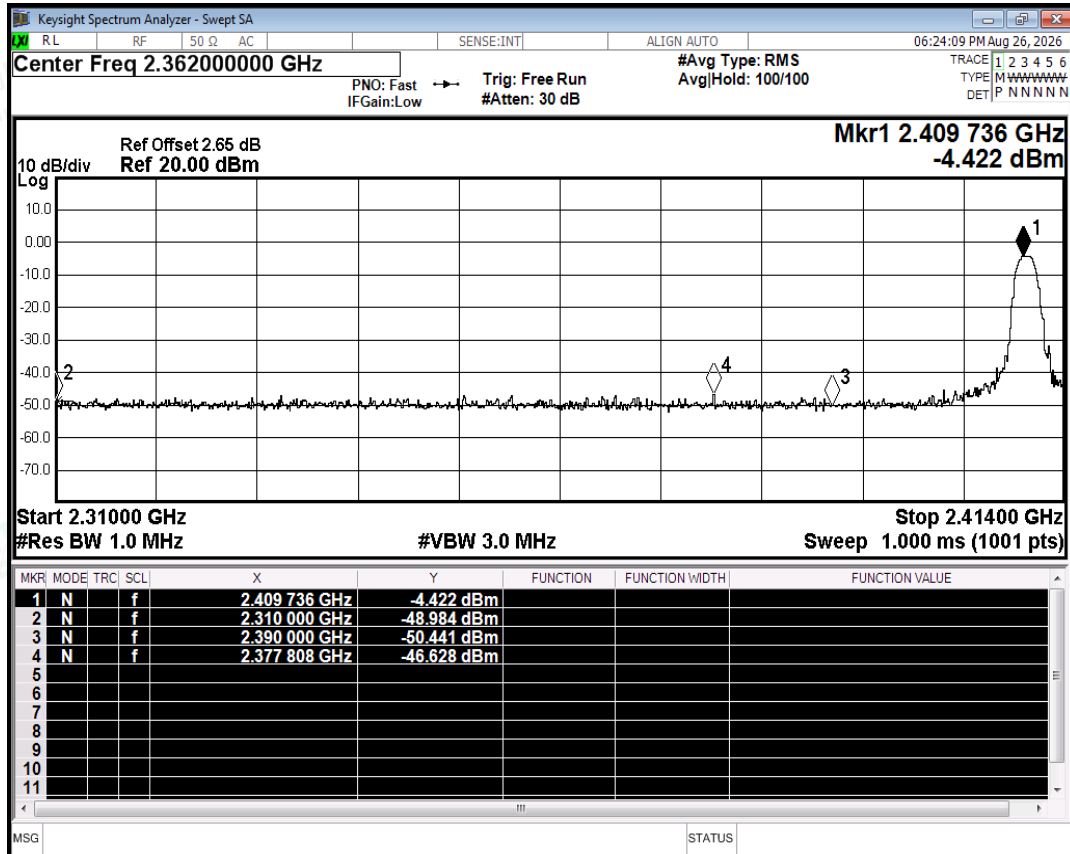


Duty Cycle NVNT 2.4G 2475MHz Ant1

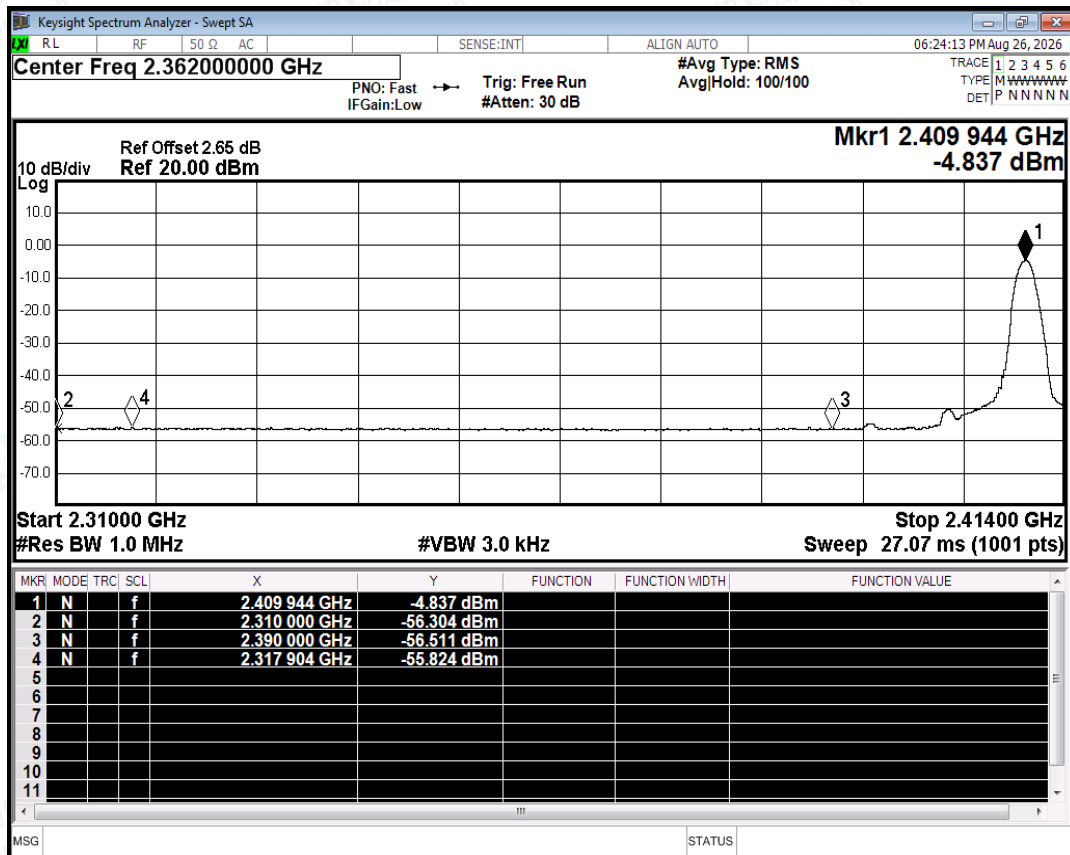


A.7 Restrict Band

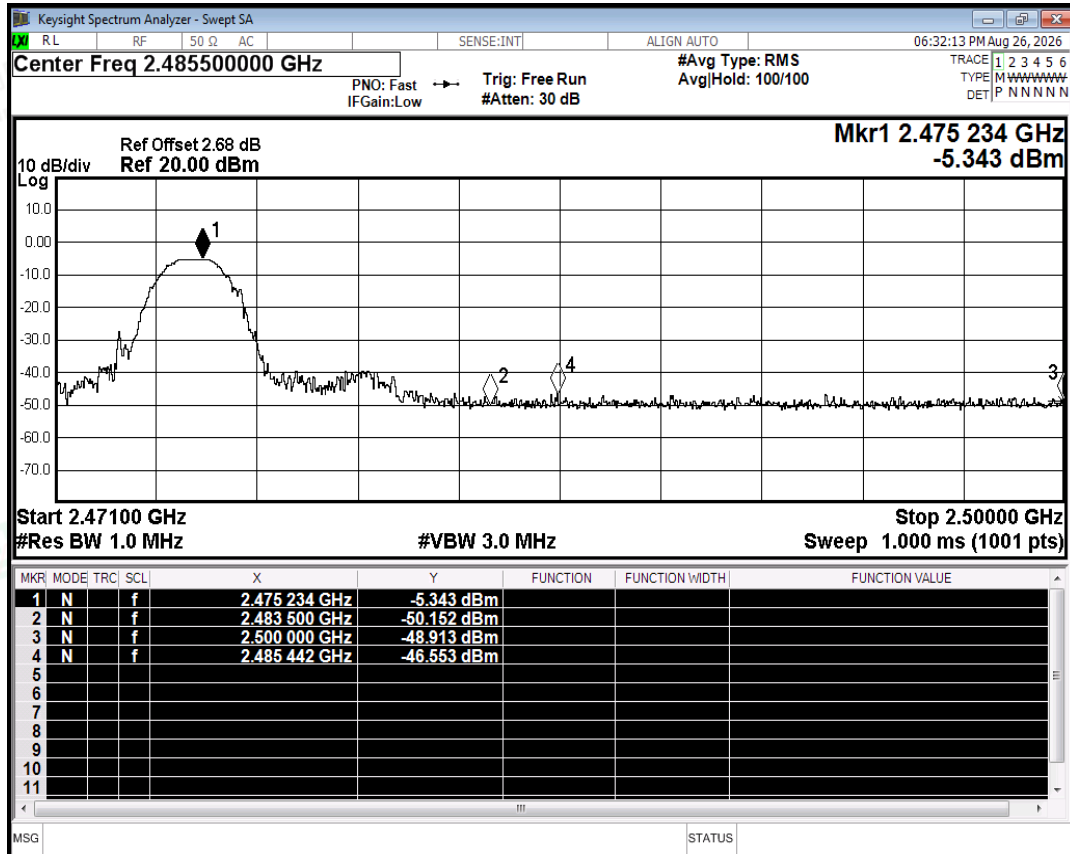
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2410	Ant1	2310	-48.98	2	48.28	Peak	74	Pass
NVNT	2.4G	2410	Ant1	2310	-56.3	2	40.96	Average	54	Pass
NVNT	2.4G	2410	Ant1	2377.808	-46.62	2	50.64	Peak	74	Pass
NVNT	2.4G	2410	Ant1	2317.904	-55.82	2	41.44	Average	54	Pass
NVNT	2.4G	2410	Ant1	2390	-50.01	2	47.25	Peak	74	Pass
NVNT	2.4G	2410	Ant1	2390	-56.59	2	40.67	Average	54	Pass
NVNT	2.4G	2475	Ant1	2483.5	-49.44	2	47.82	Peak	74	Pass
NVNT	2.4G	2475	Ant1	2483.5	-55.47	2	41.79	Average	54	Pass
NVNT	2.4G	2475	Ant1	2485.442	-46.55	2	50.71	Peak	74	Pass
NVNT	2.4G	2475	Ant1	2490.691	-54.99	2	42.27	Average	54	Pass
NVNT	2.4G	2475	Ant1	2500	-48.91	2	48.35	Peak	74	Pass
NVNT	2.4G	2475	Ant1	2500	-56.28	2	40.98	Average	54	Pass



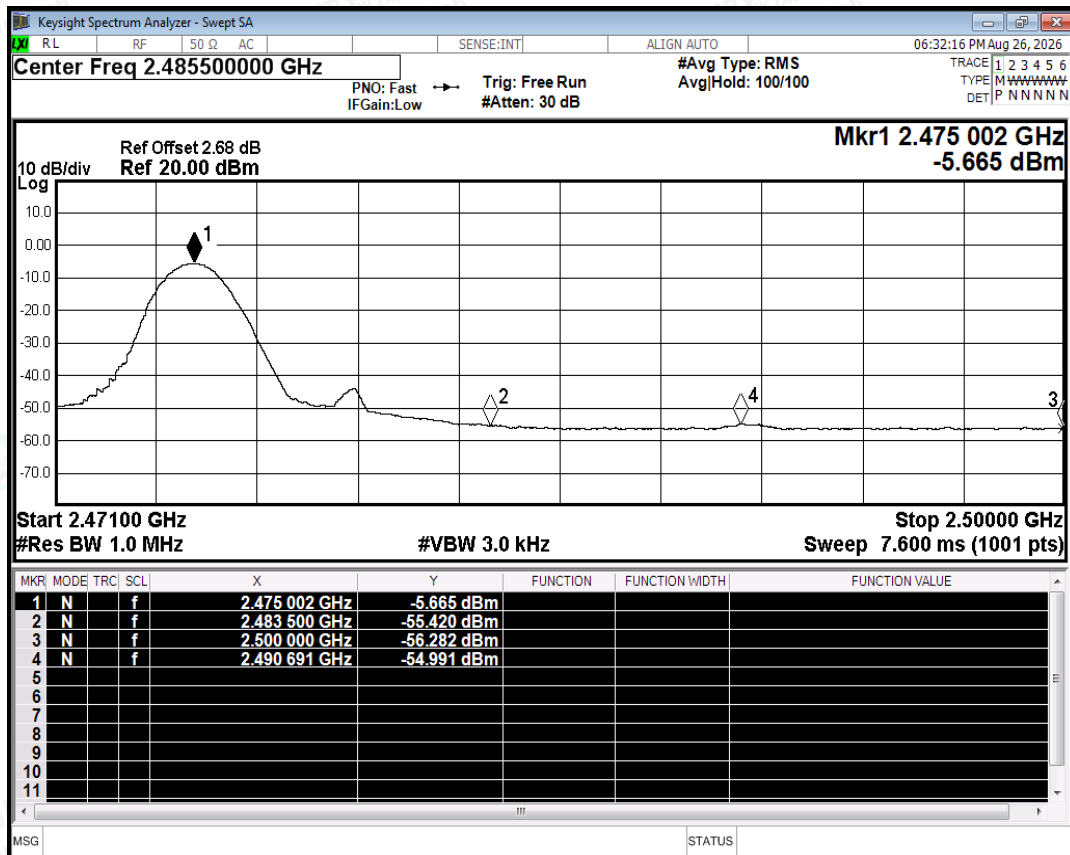
Restrict Band NVNT 2.4G 2410MHz Ant1 Peak



Restrict Band NVNT 2.4G 2410MHz Ant1 Average



Restrict Band NVNT 2.4G 2475MHz Ant1 Peak



Restrict Band NVNT 2.4G 2475MHz Ant1 Average