

# Appendix A

## 7.1 Maximum Conducted Output Power

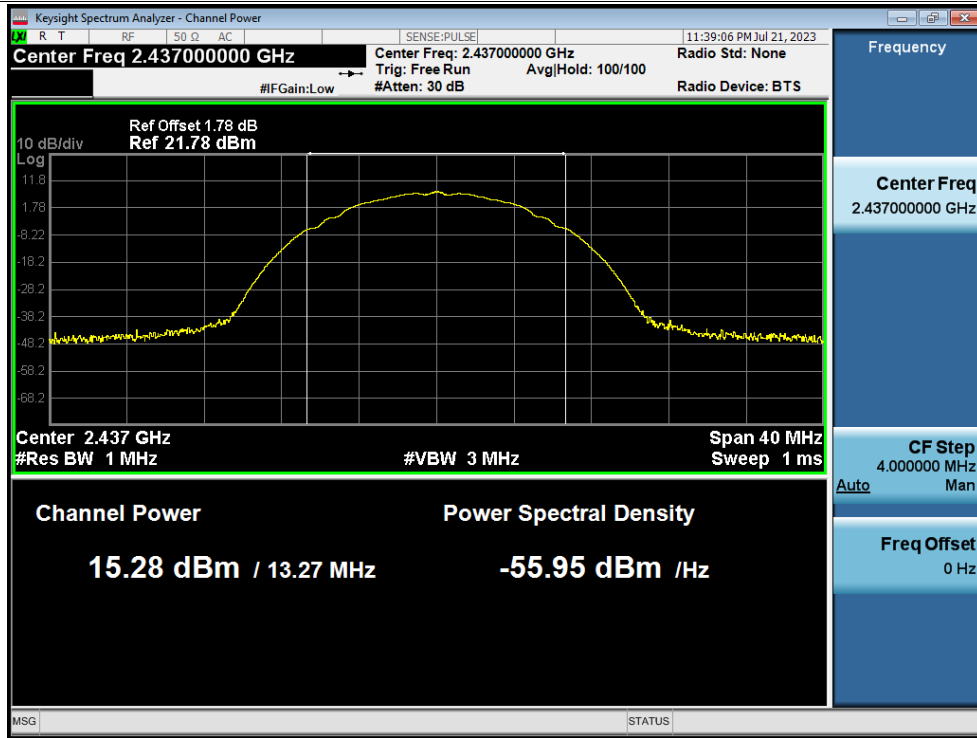
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.72	0	14.72	30	Pass
NVNT	b	2437	Ant1	15.28	0	15.28	30	Pass
NVNT	b	2462	Ant1	15.4	0	15.4	30	Pass
NVNT	g	2412	Ant1	14.21	0	14.21	30	Pass
NVNT	g	2437	Ant1	14.89	0	14.89	30	Pass
NVNT	g	2462	Ant1	15.12	0	15.12	30	Pass
NVNT	n20	2412	Ant1	14.33	0	14.33	30	Pass
NVNT	n20	2437	Ant1	15.04	0	15.04	30	Pass
NVNT	n20	2462	Ant1	15.28	0	15.28	30	Pass
NVNT	n40	2422	Ant1	13.62	0	13.62	30	Pass
NVNT	n40	2437	Ant1	13.87	0	13.87	30	Pass
NVNT	n40	2452	Ant1	13.96	0	13.96	30	Pass

Test Graphs

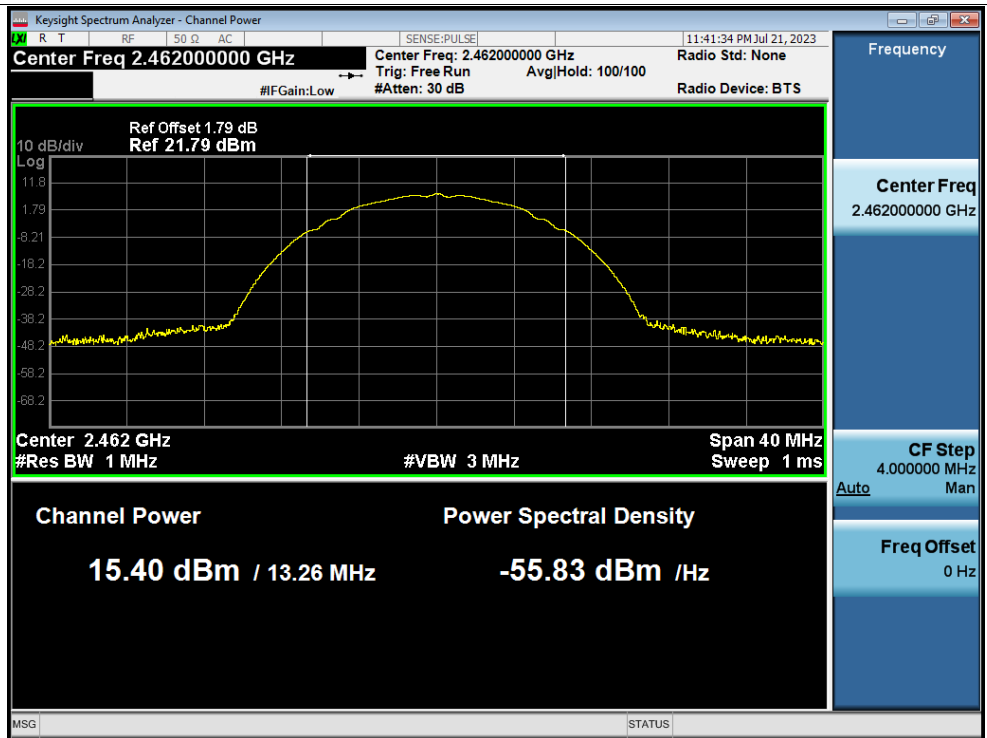
Power NVNT b 2412MHz Ant1



Power NVNT b 2437MHz Ant1



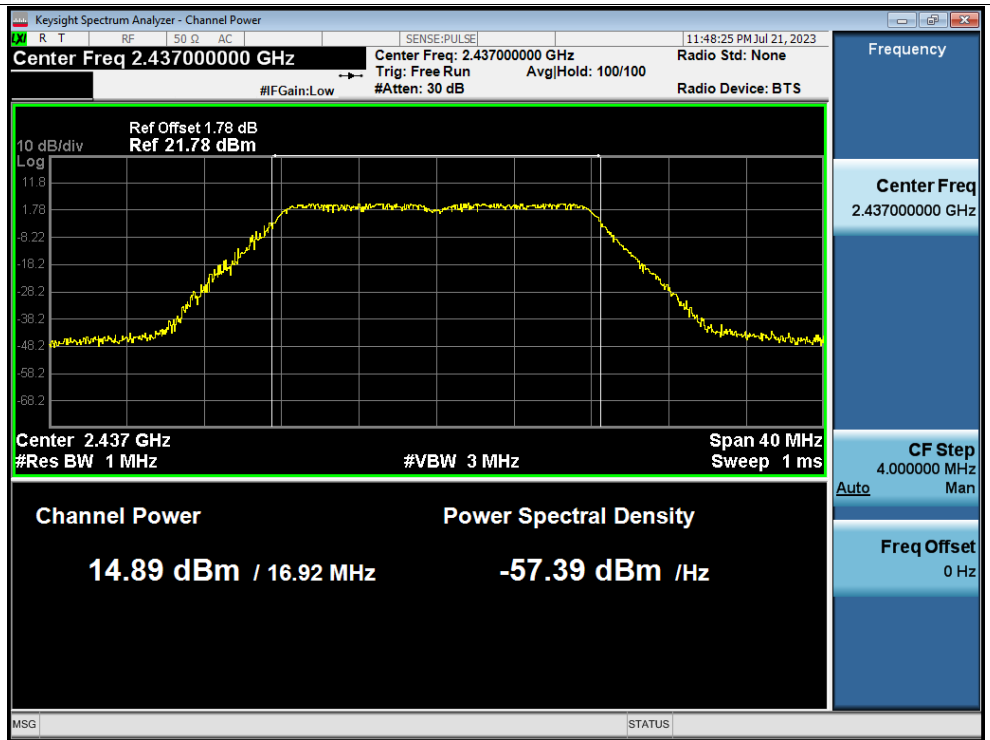
Power NVNT b 2462MHz Ant1



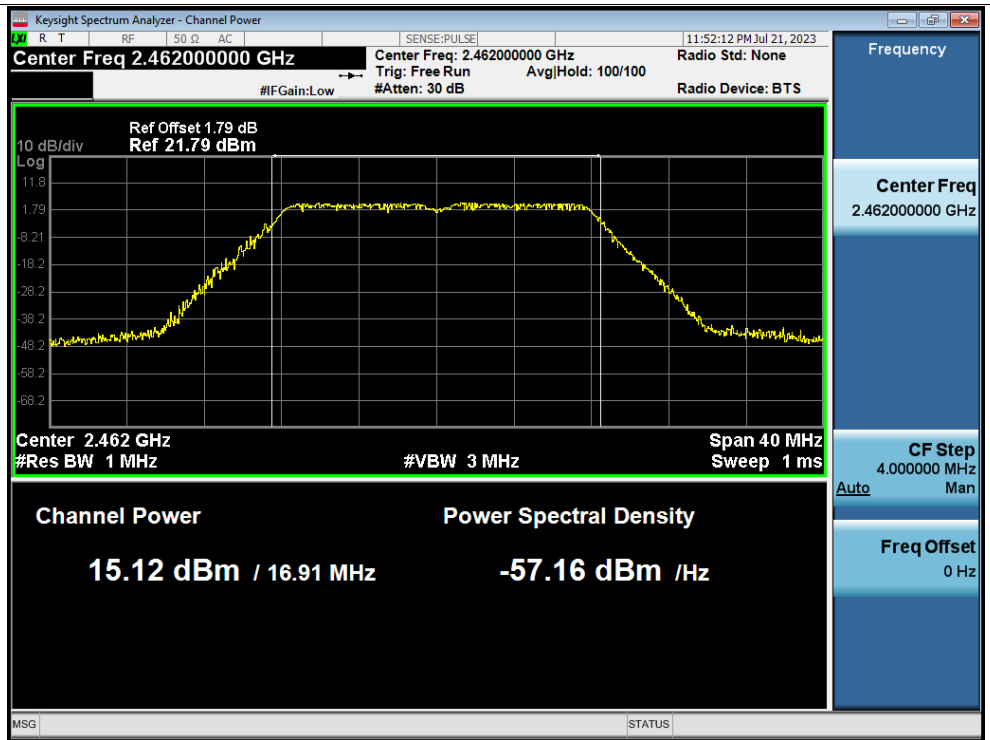
Power NVNT g 2412MHz Ant1



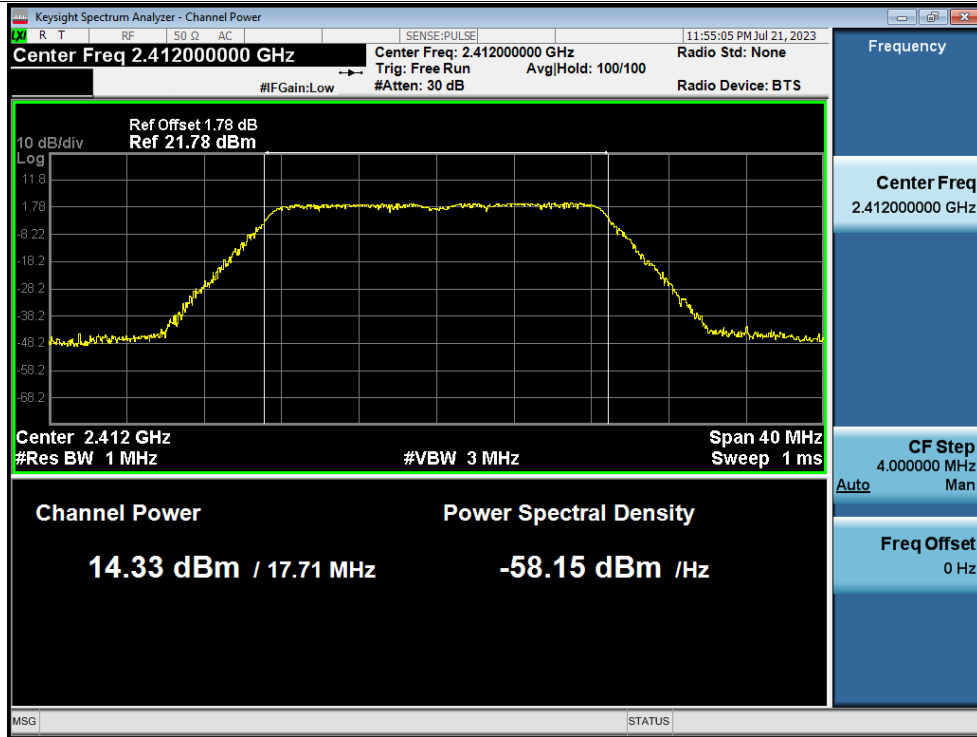
Power NVNT g 2437MHz Ant1



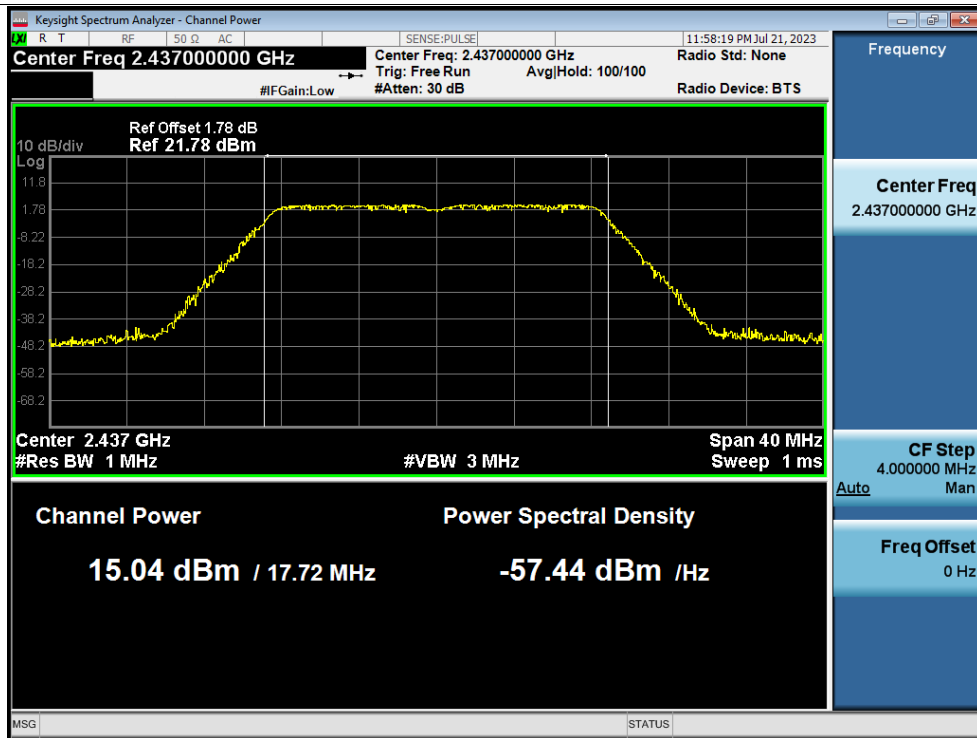
Power NVNT g 2462MHz Ant1



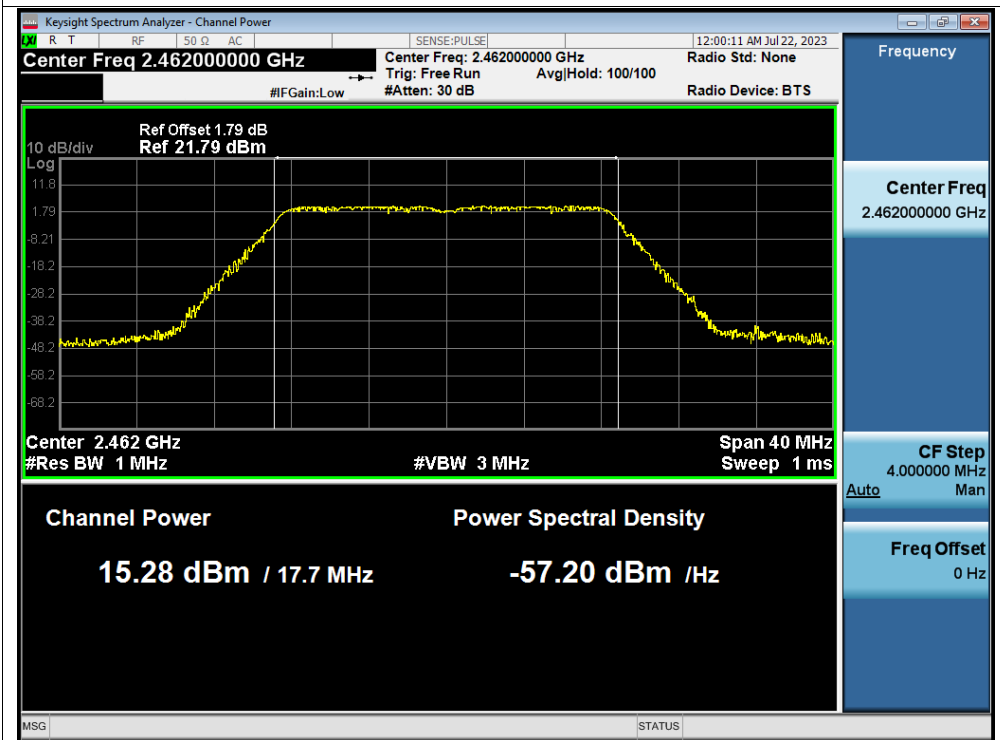
Power NVNT n20 2412MHz Ant1



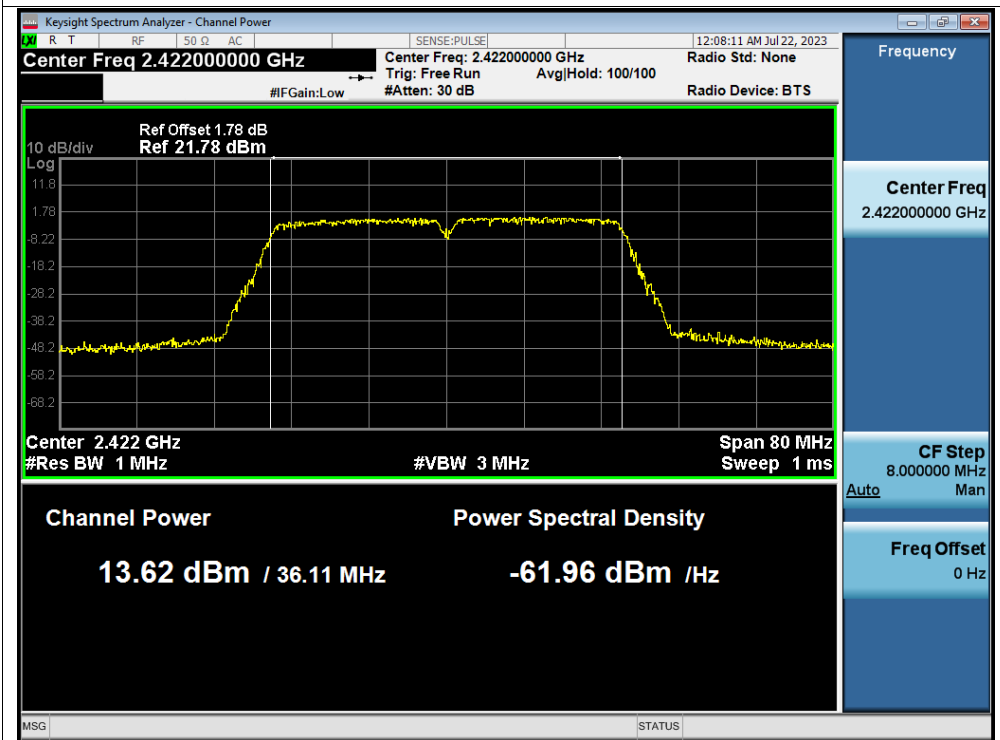
Power NVNT n20 2437MHz Ant1



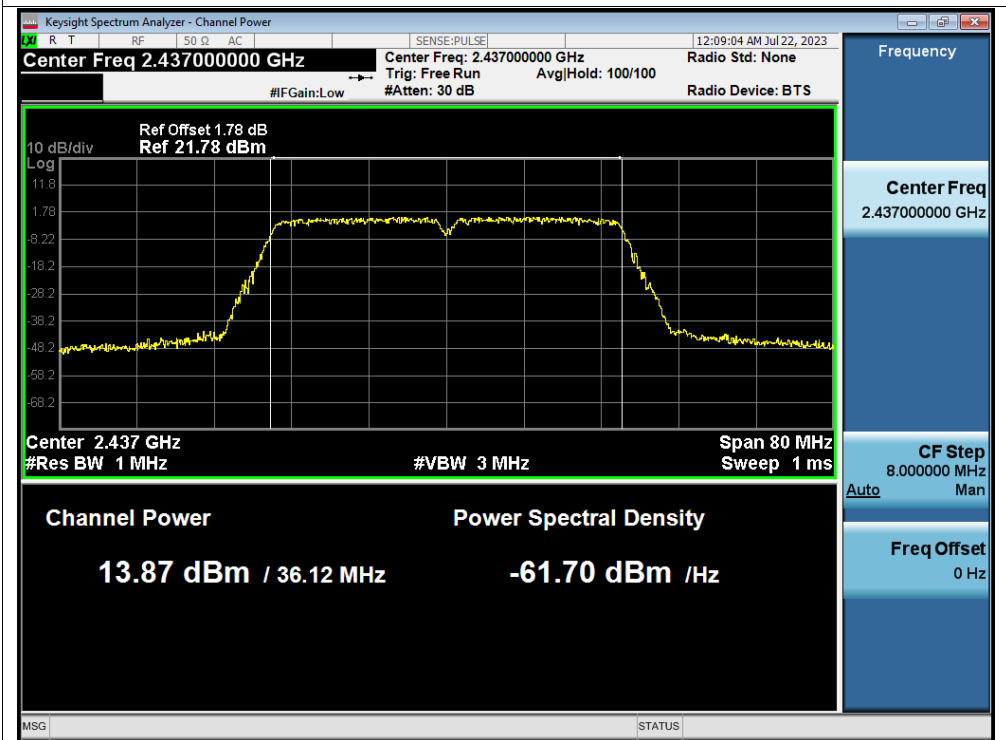
Power NVNT n20 2462MHz Ant1



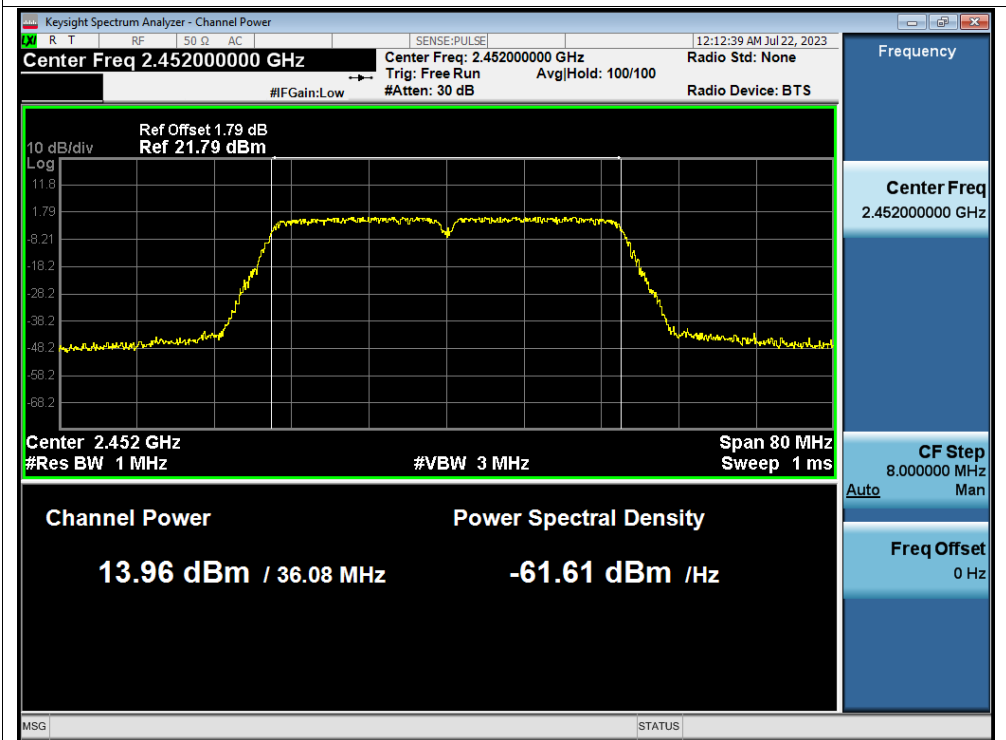
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



Power NVNT n40 2452MHz Ant1



## 7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.056	0.5	Pass
NVNT	b	2437	Ant1	8.993	0.5	Pass
NVNT	b	2462	Ant1	9.011	0.5	Pass
NVNT	g	2412	Ant1	16.548	0.5	Pass
NVNT	g	2437	Ant1	16.561	0.5	Pass
NVNT	g	2462	Ant1	16.54	0.5	Pass
NVNT	n20	2412	Ant1	17.77	0.5	Pass
NVNT	n20	2437	Ant1	17.746	0.5	Pass
NVNT	n20	2462	Ant1	17.721	0.5	Pass
NVNT	n40	2422	Ant1	36.364	0.5	Pass
NVNT	n40	2437	Ant1	36.418	0.5	Pass
NVNT	n40	2452	Ant1	36.398	0.5	Pass



Test Graphs

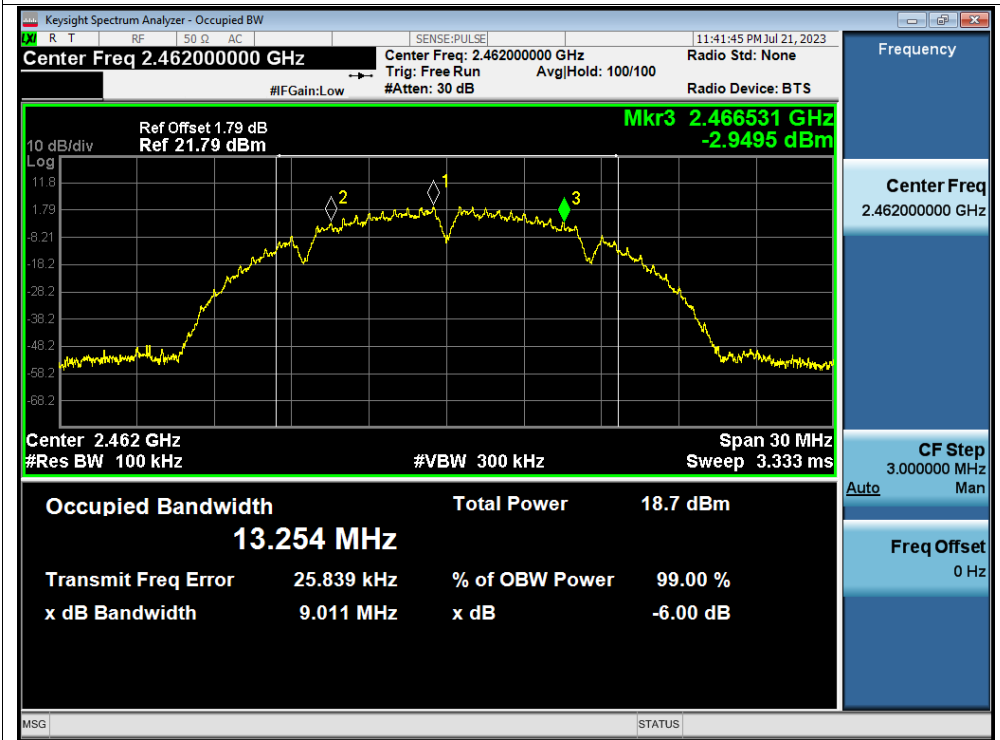
-6dB Bandwidth NVNT b 2412MHz Ant1



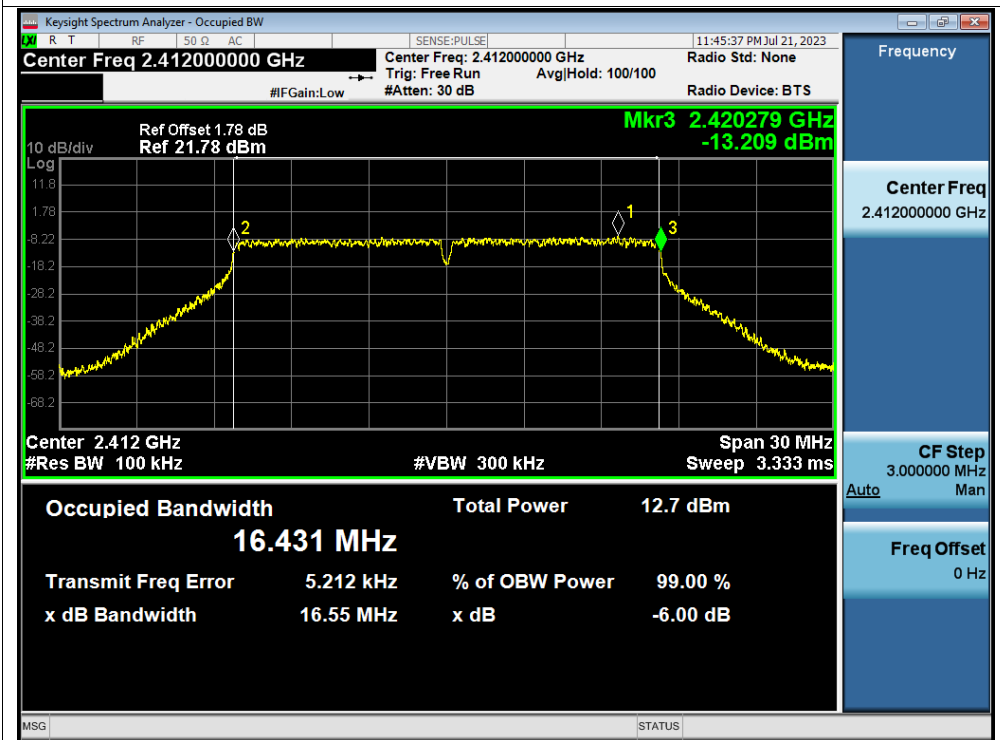
-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1



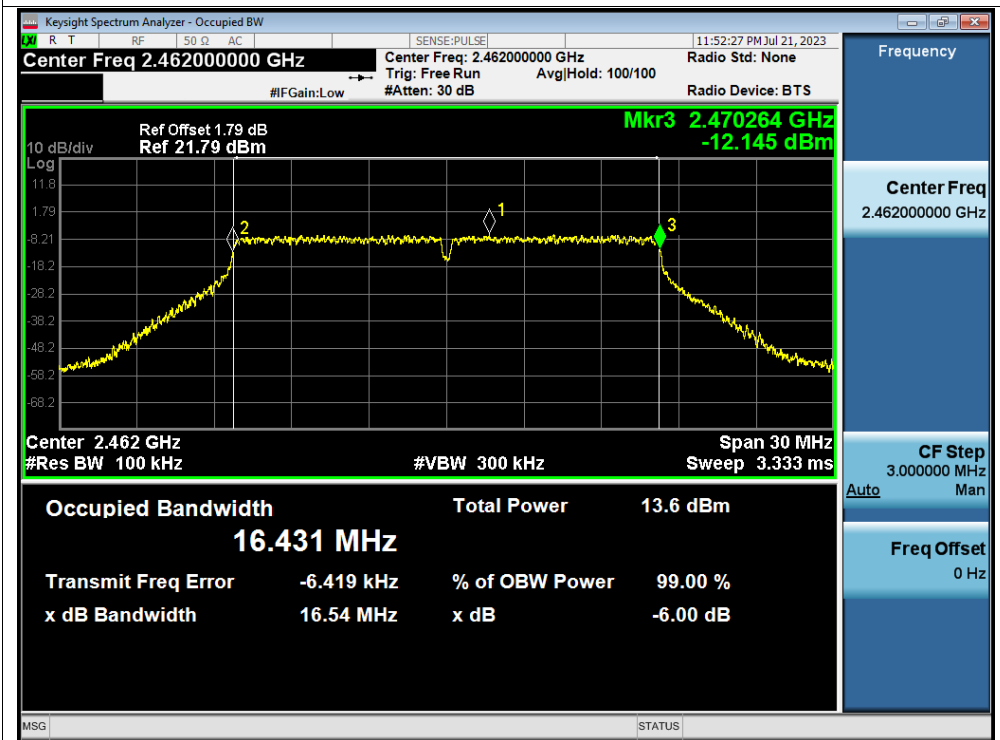
-6dB Bandwidth NVNT g 2412MHz Ant1



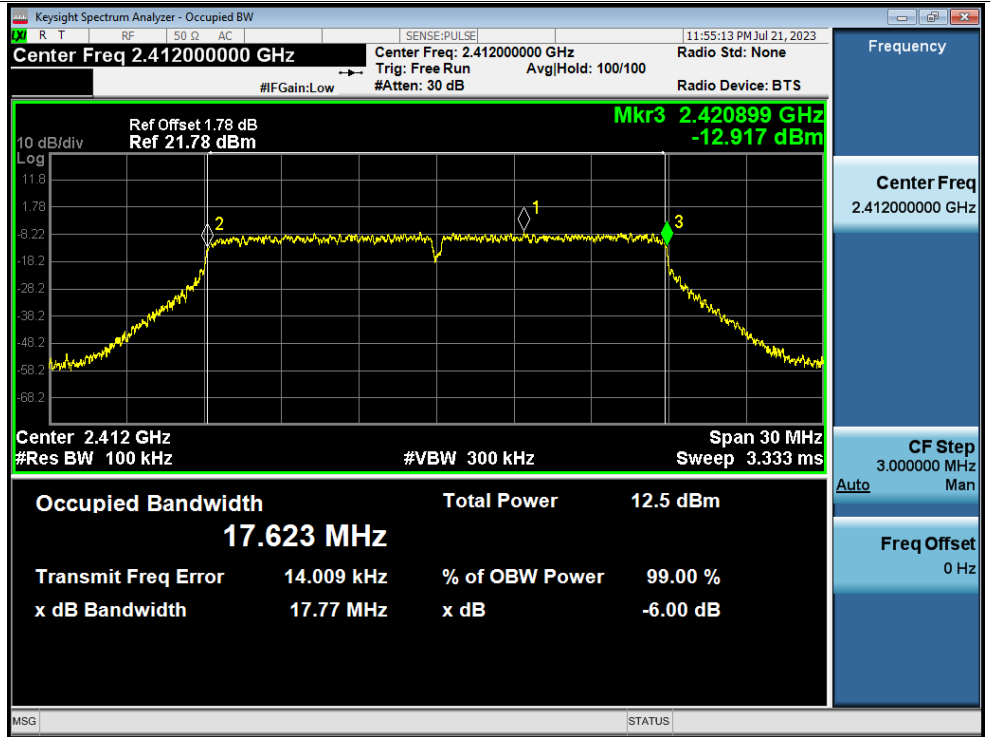
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



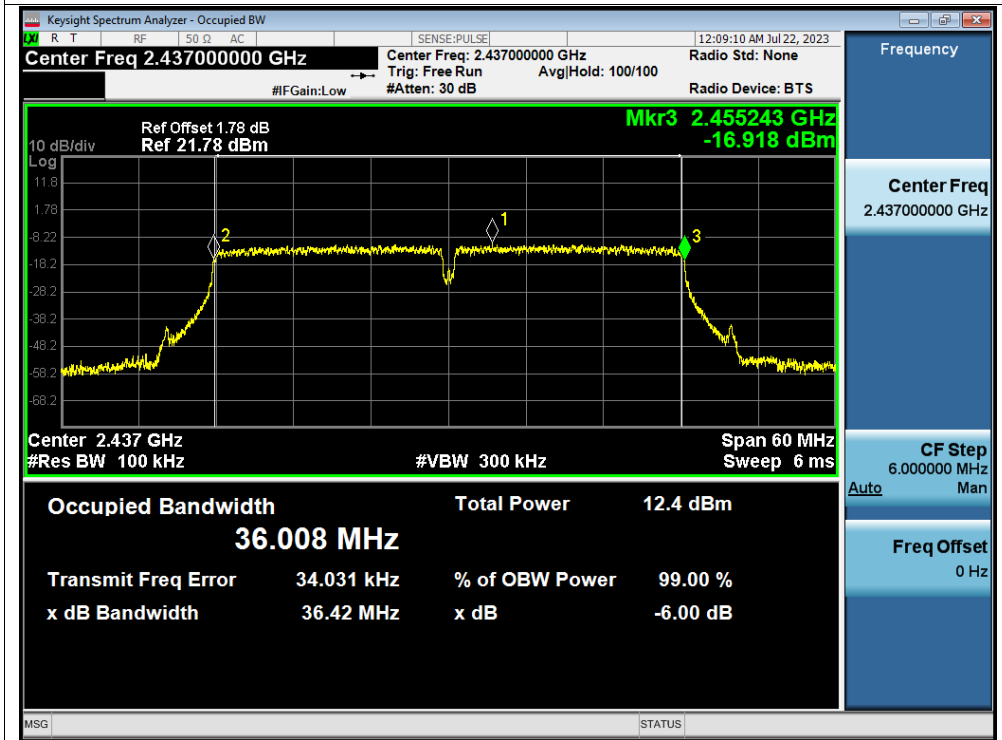
-6dB Bandwidth NVNT n20 2462MHz Ant1



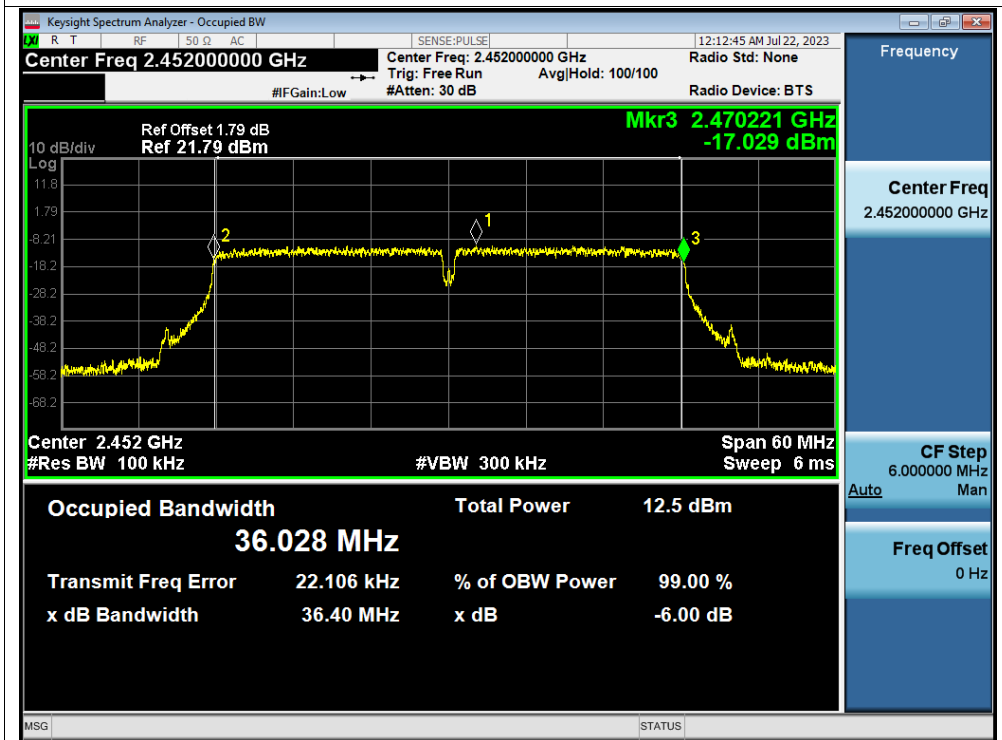
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

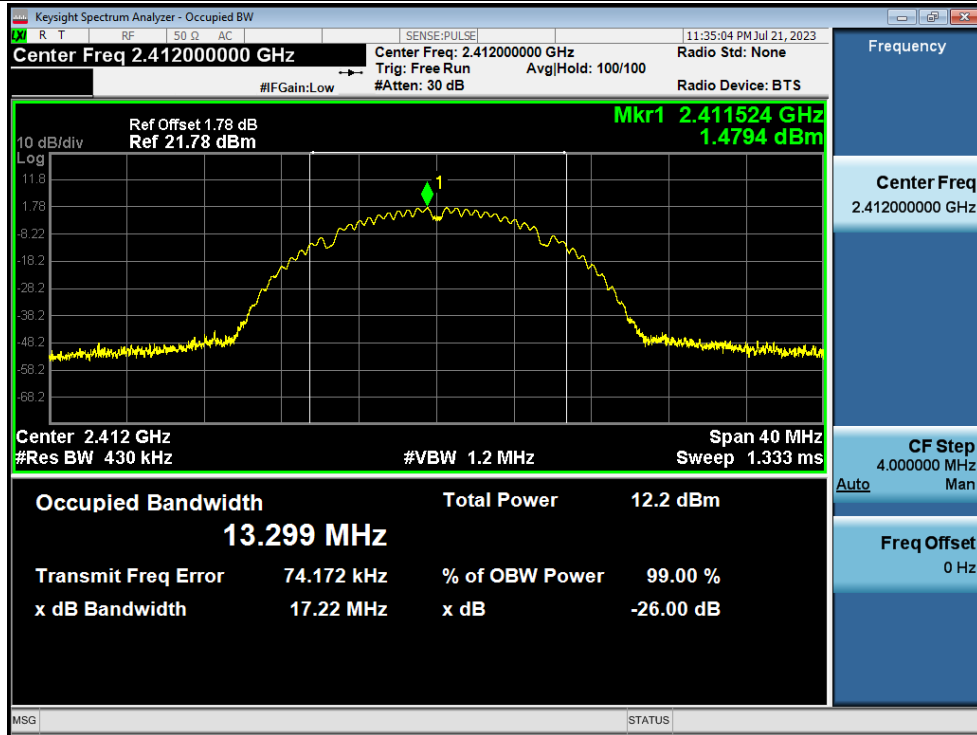


## Occupied Channel Bandwidth

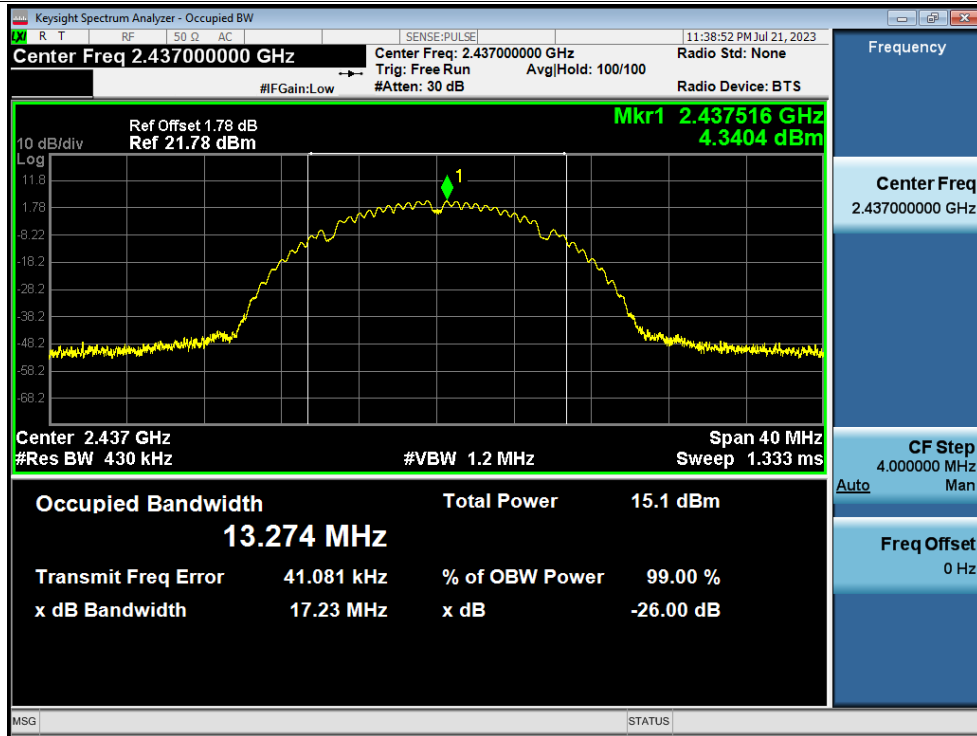
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.299
NVNT	b	2437	Ant1	13.274
NVNT	b	2462	Ant1	13.259
NVNT	g	2412	Ant1	16.892
NVNT	g	2437	Ant1	16.924
NVNT	g	2462	Ant1	16.905
NVNT	n20	2412	Ant1	17.708
NVNT	n20	2437	Ant1	17.715
NVNT	n20	2462	Ant1	17.701
NVNT	n40	2422	Ant1	36.11
NVNT	n40	2437	Ant1	36.116
NVNT	n40	2452	Ant1	36.084

Test Graphs

OBW NVNT b 2412MHz Ant1

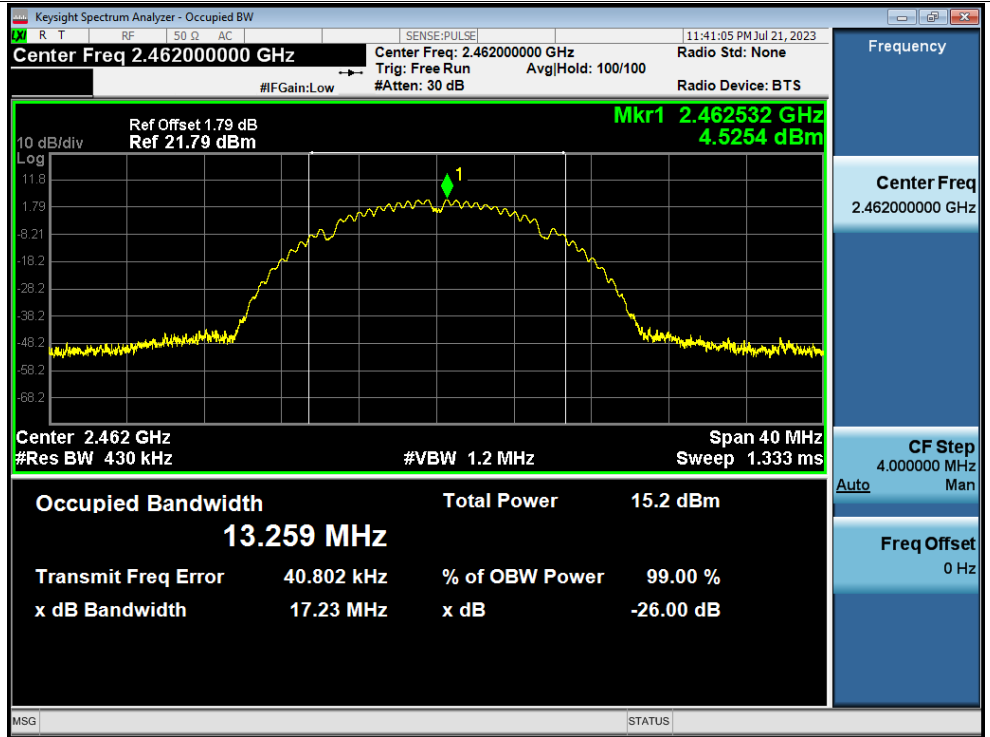


OBW NVNT b 2437MHz Ant1

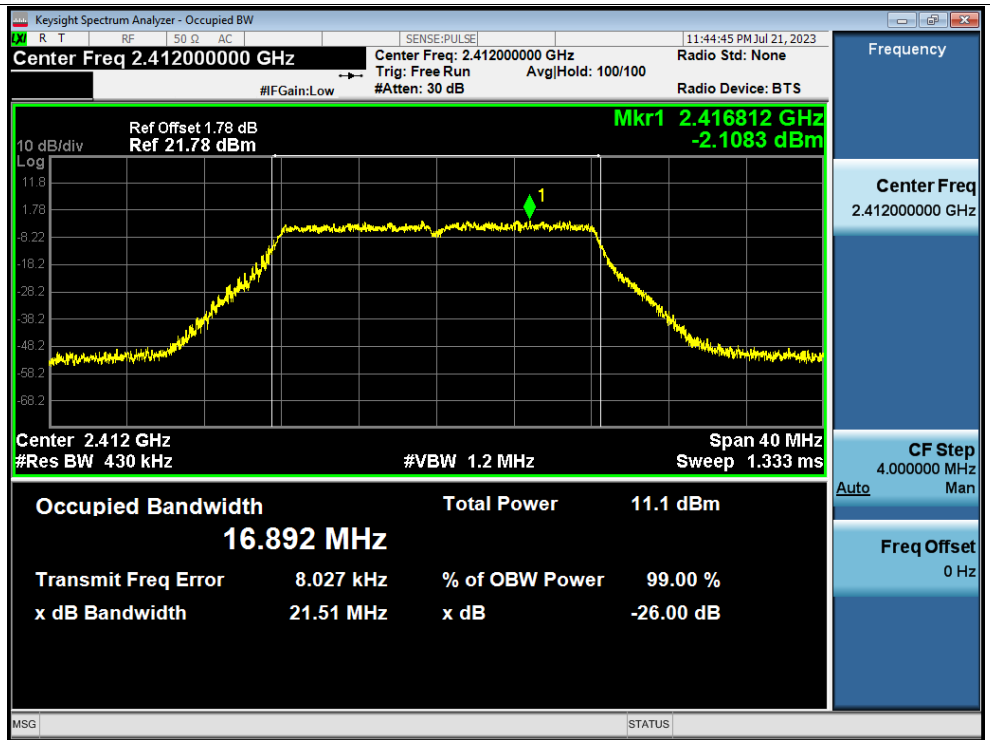




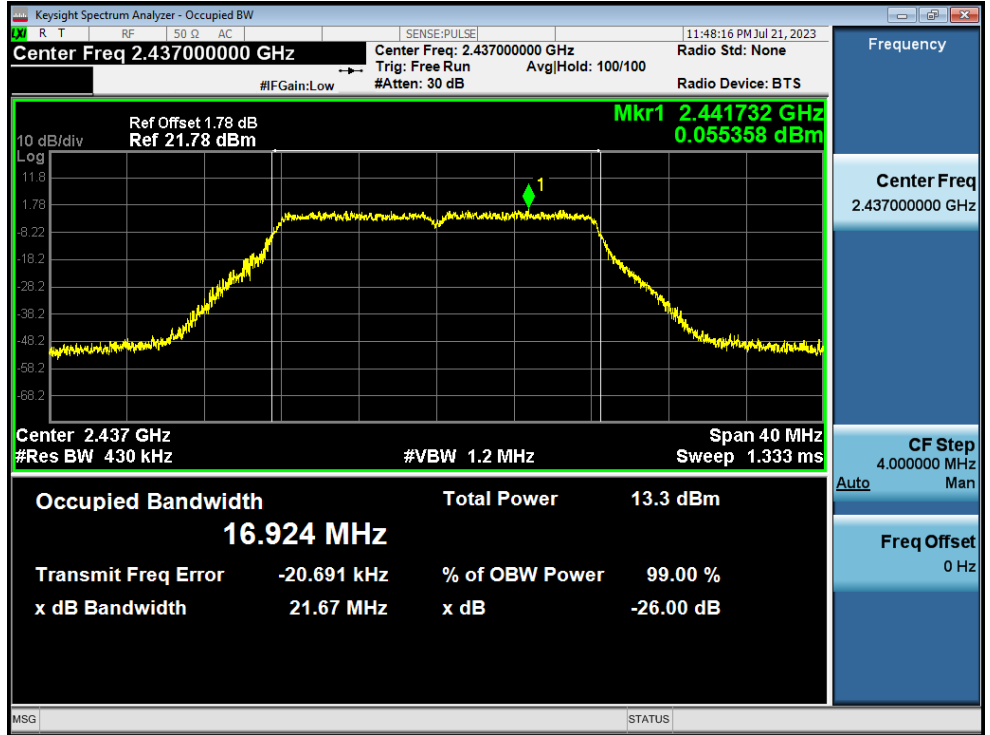
OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



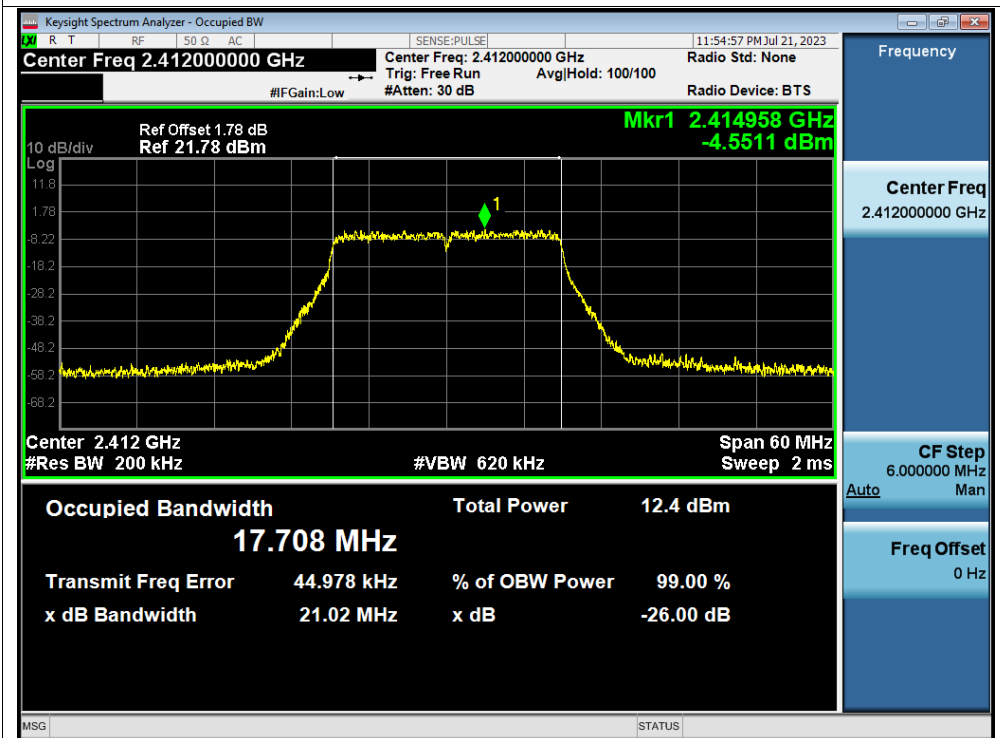
OBW NVNT g 2437MHz Ant1



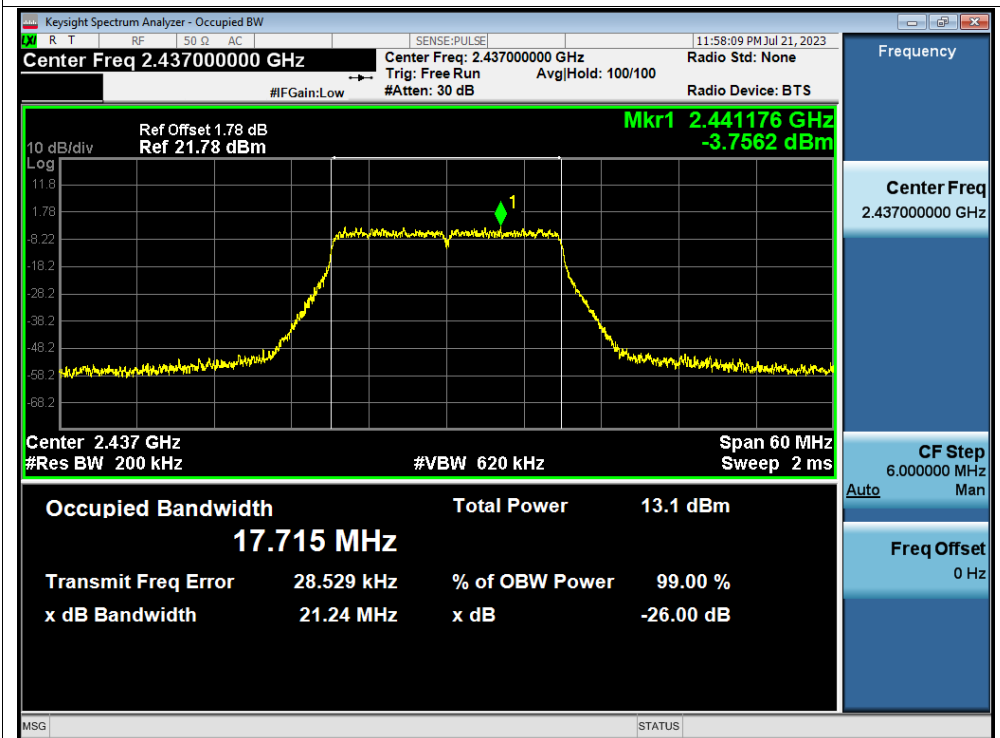
OBW NVNT g 2462MHz Ant1



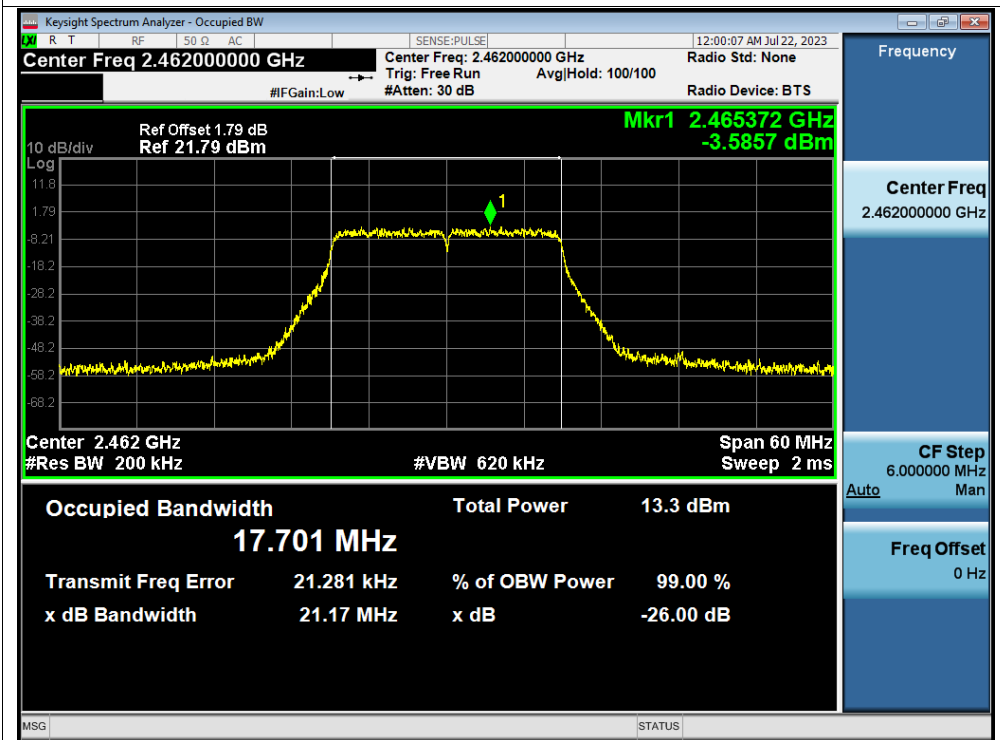
OBW NVNT n20 2412MHz Ant1



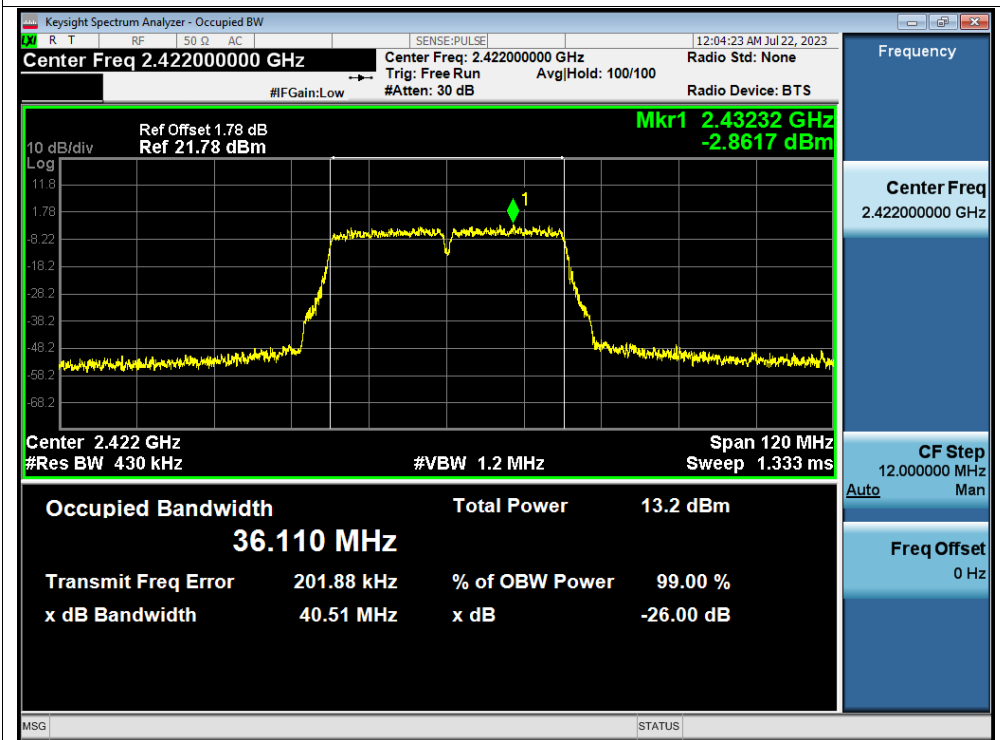
OBW NVNT n20 2437MHz Ant1



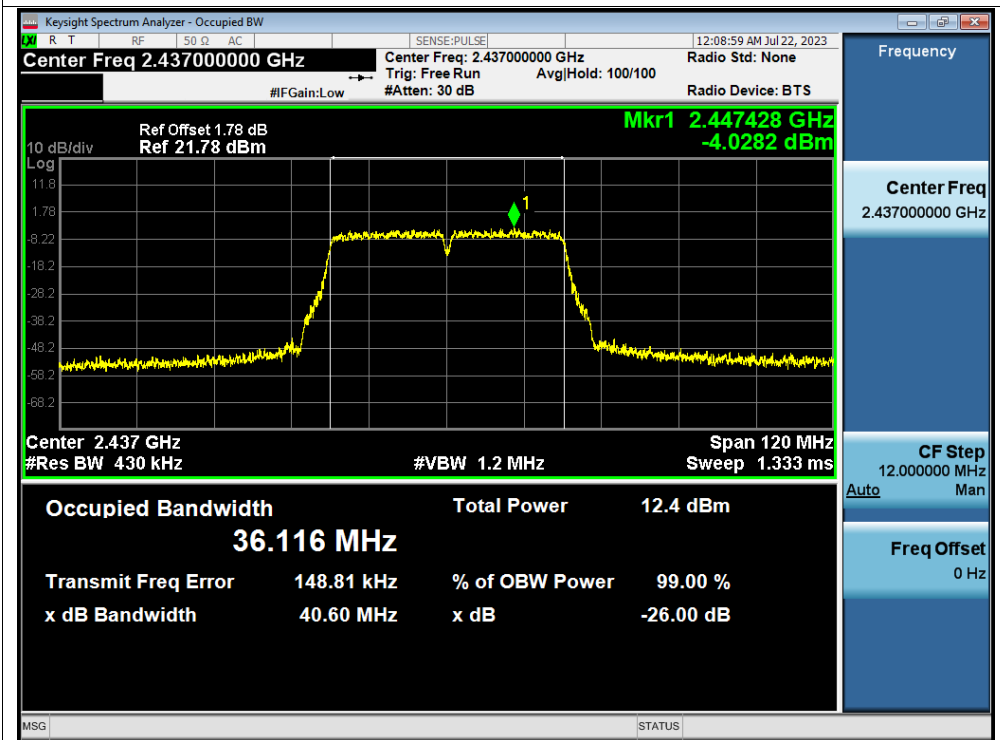
OBW NVNT n20 2462MHz Ant1



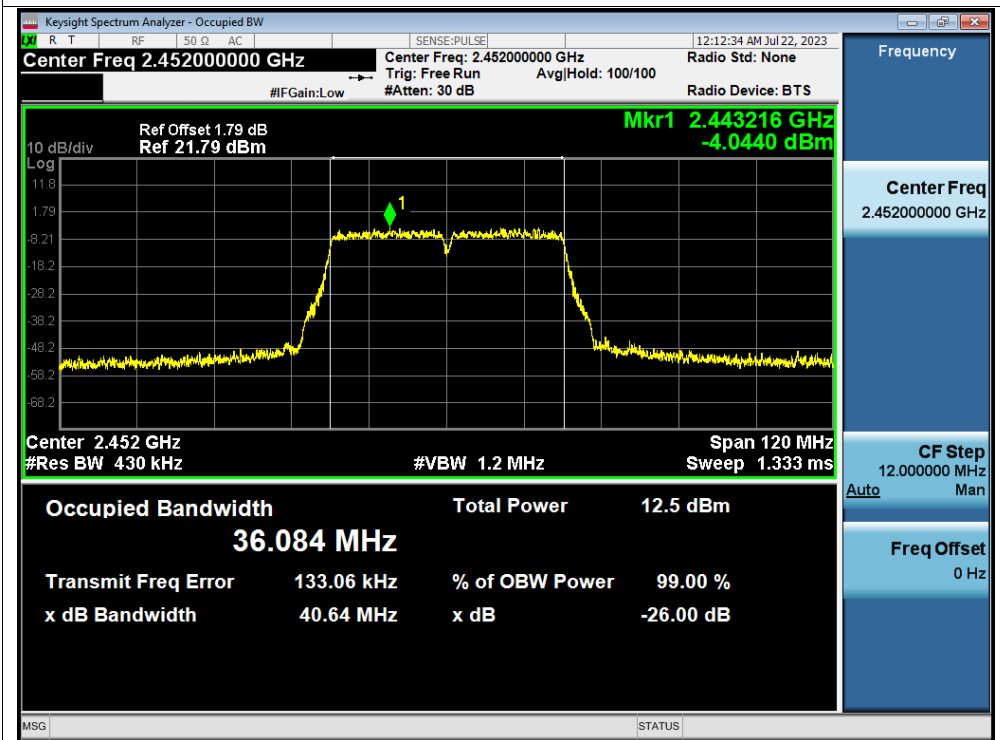
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



## 7.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-17.65	0	-17.65	8	Pass
NVNT	b	2437	Ant1	-17.08	0	-17.08	8	Pass
NVNT	b	2462	Ant1	-16.96	0	-16.96	8	Pass
NVNT	g	2412	Ant1	-21.36	0	-21.36	8	Pass
NVNT	g	2437	Ant1	-20.5	0	-20.5	8	Pass
NVNT	g	2462	Ant1	-20.3	0	-20.3	8	Pass
NVNT	n20	2412	Ant1	-21.28	0	-21.28	8	Pass
NVNT	n20	2437	Ant1	-20.18	0	-20.18	8	Pass
NVNT	n20	2462	Ant1	-19.77	0	-19.77	8	Pass
NVNT	n40	2422	Ant1	-20.42	0	-20.42	8	Pass
NVNT	n40	2437	Ant1	-21.38	0	-21.38	8	Pass
NVNT	n40	2452	Ant1	-21.15	0	-21.15	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



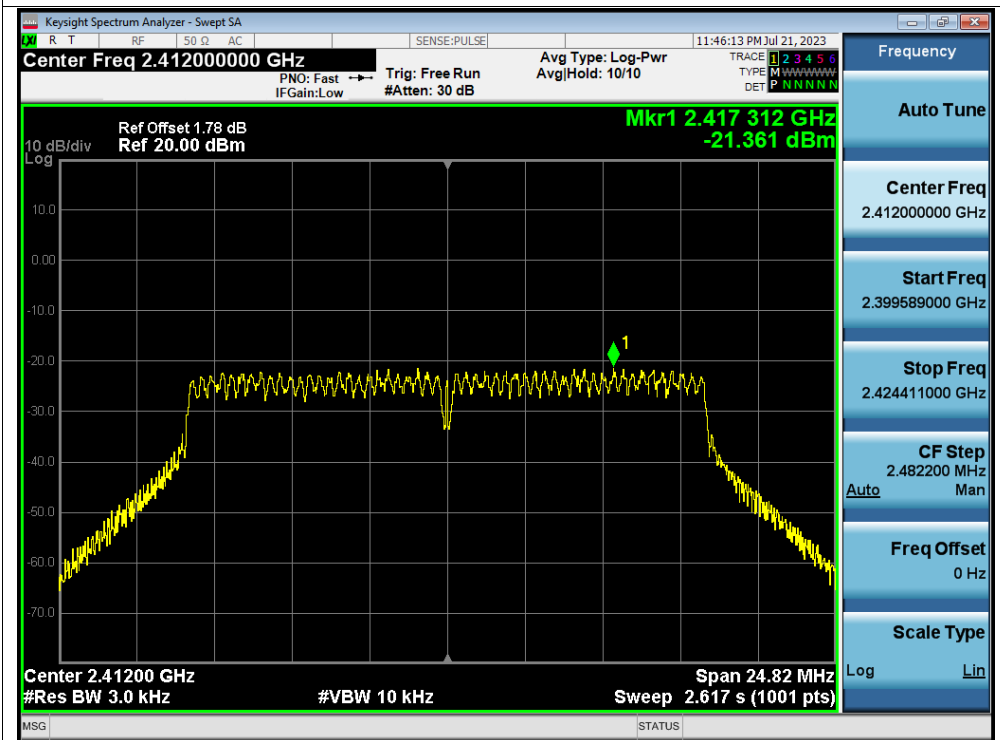
PSD NVNT b 2437MHz Ant1



PSD NVNT b 2462MHz Ant1

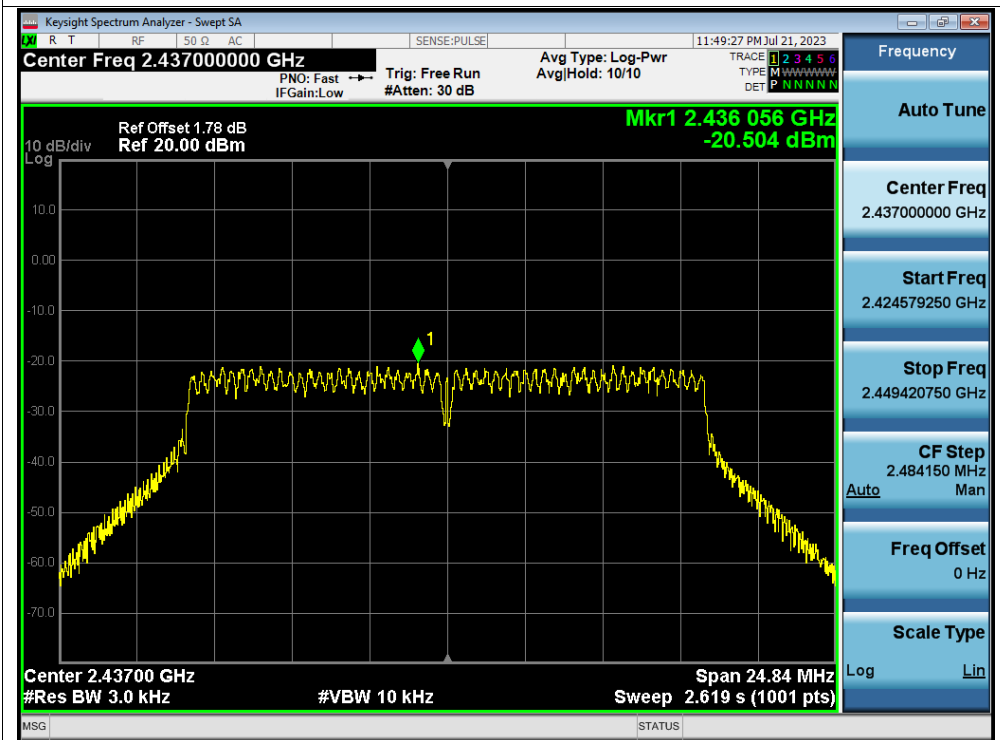


PSD NVNT g 2412MHz Ant1

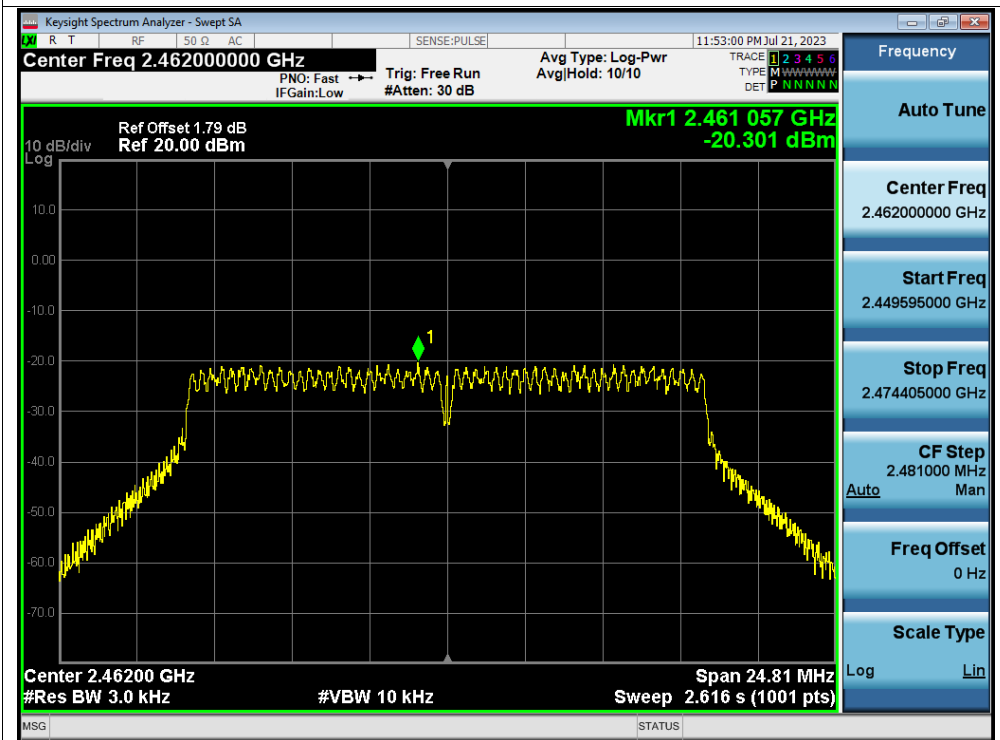




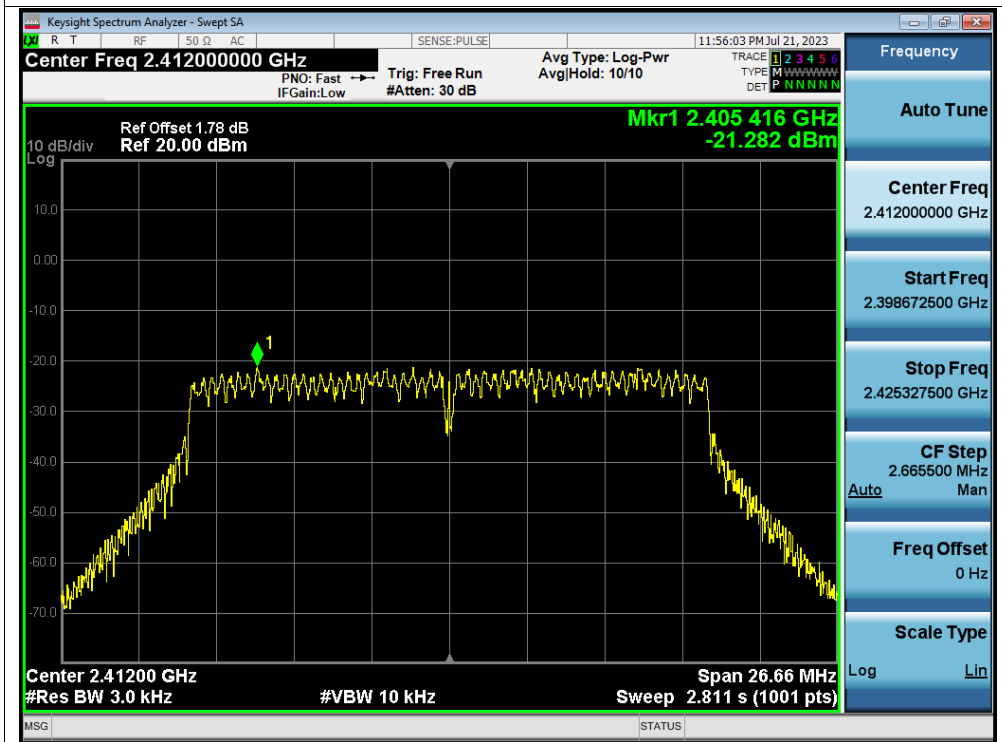
PSD NVNT g 2437MHz Ant1



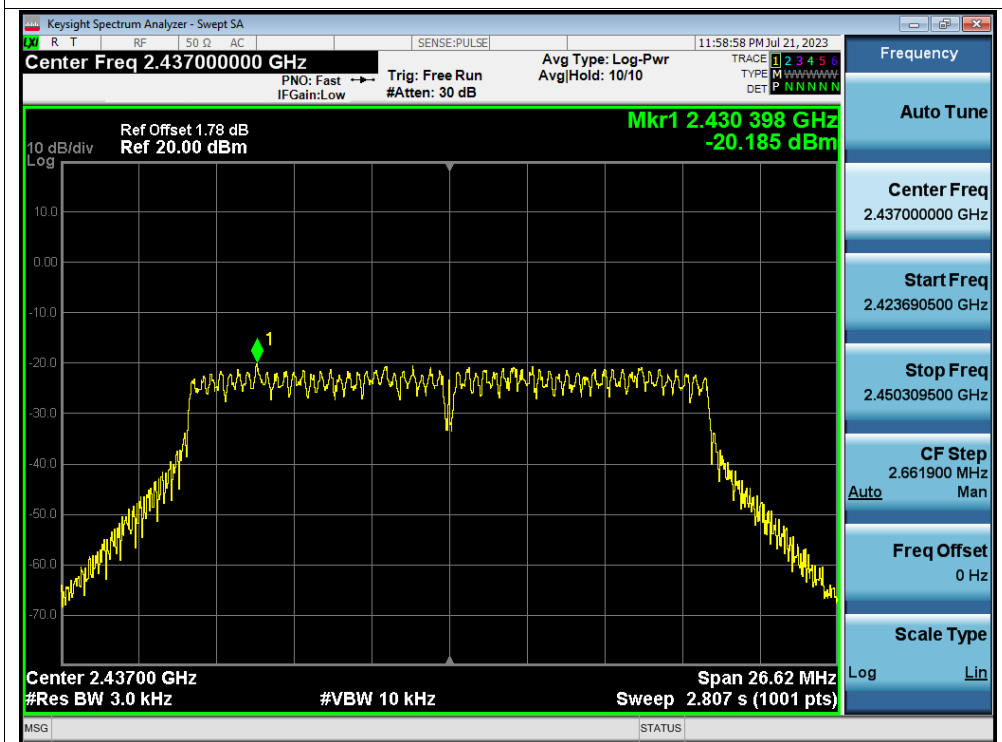
PSD NVNT g 2462MHz Ant1



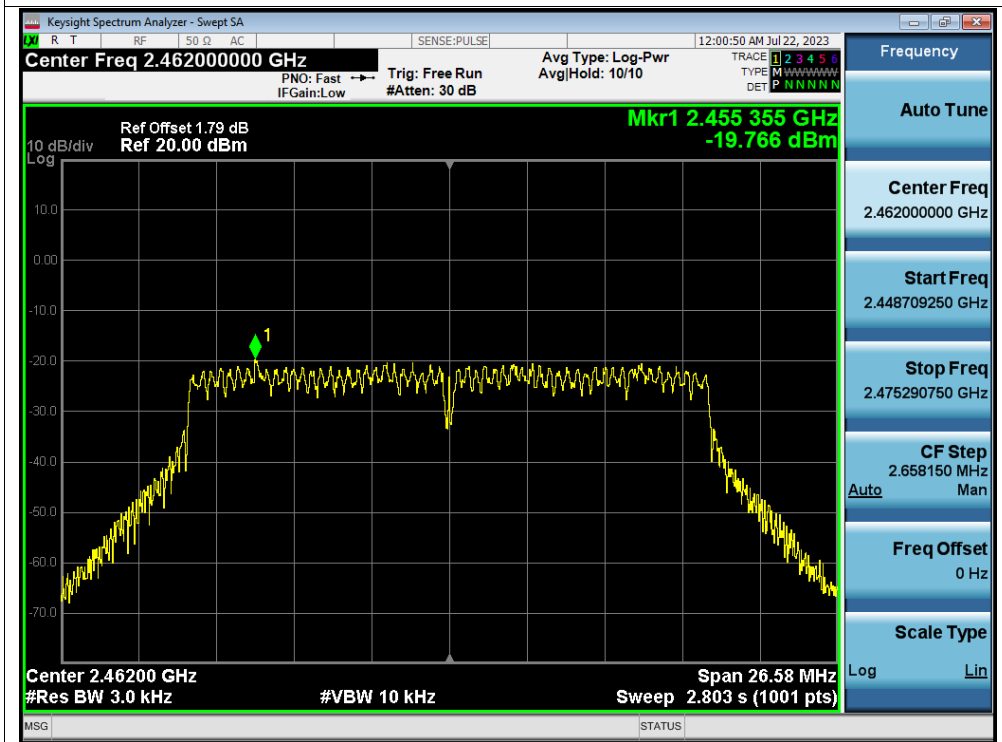
PSD NVNT n20 2412MHz Ant1



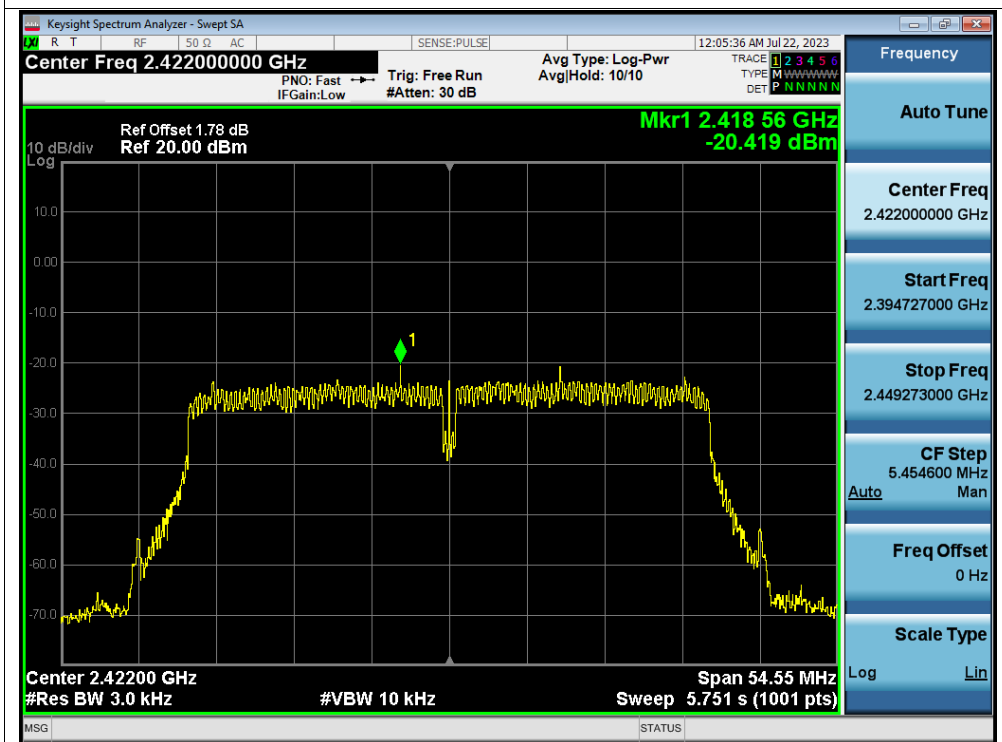
PSD NVNT n20 2437MHz Ant1



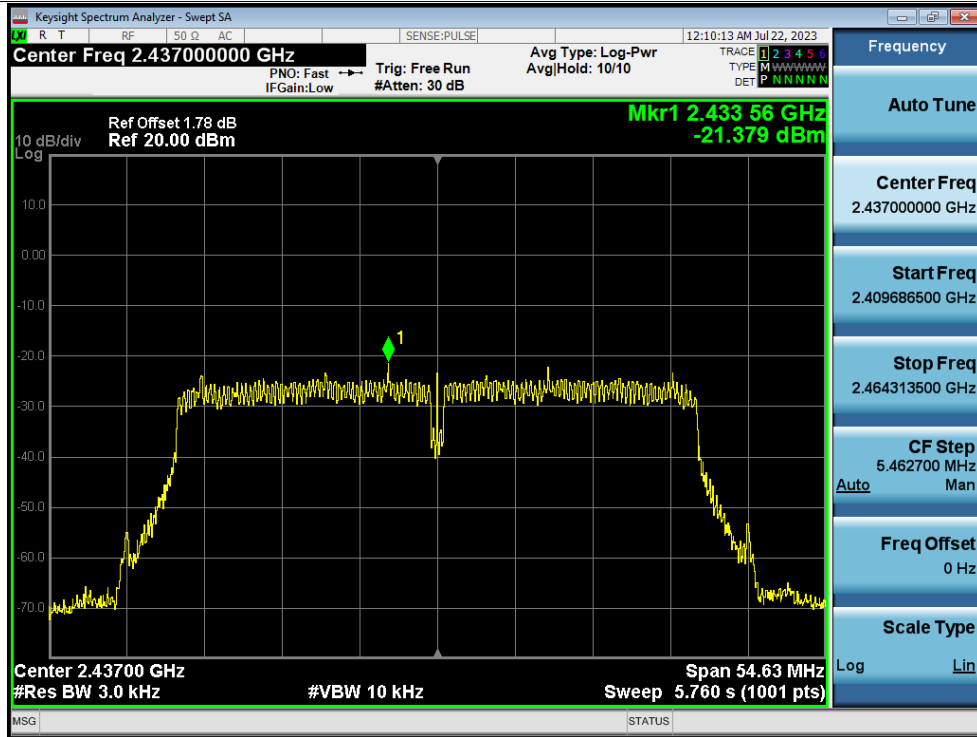
PSD NVNT n20 2462MHz Ant1



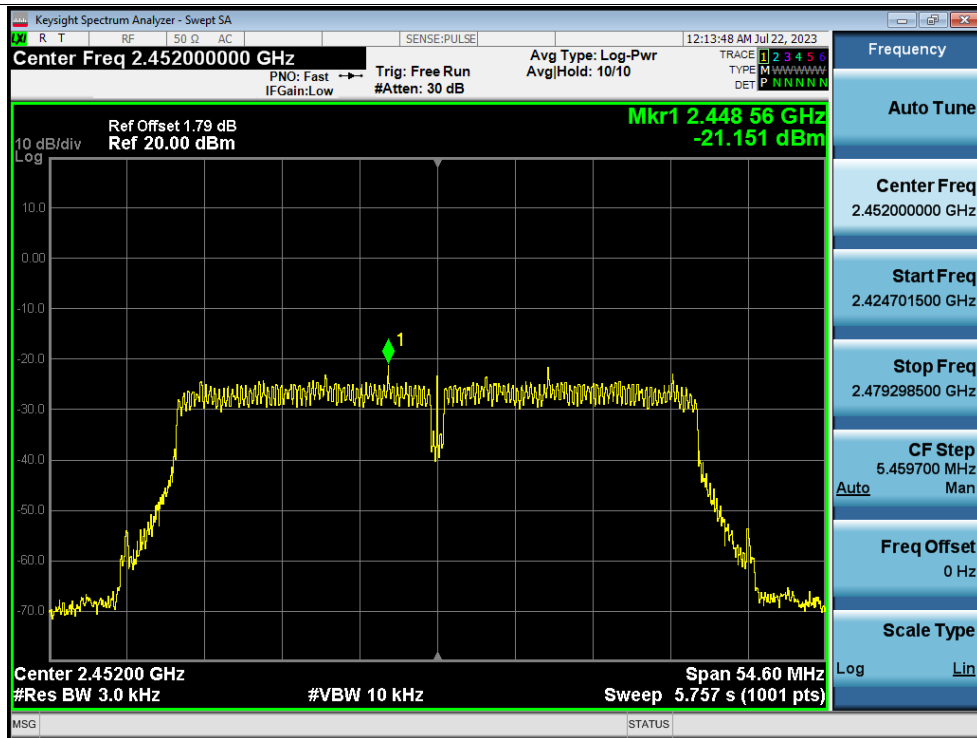
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



## 7.4 Band Edge

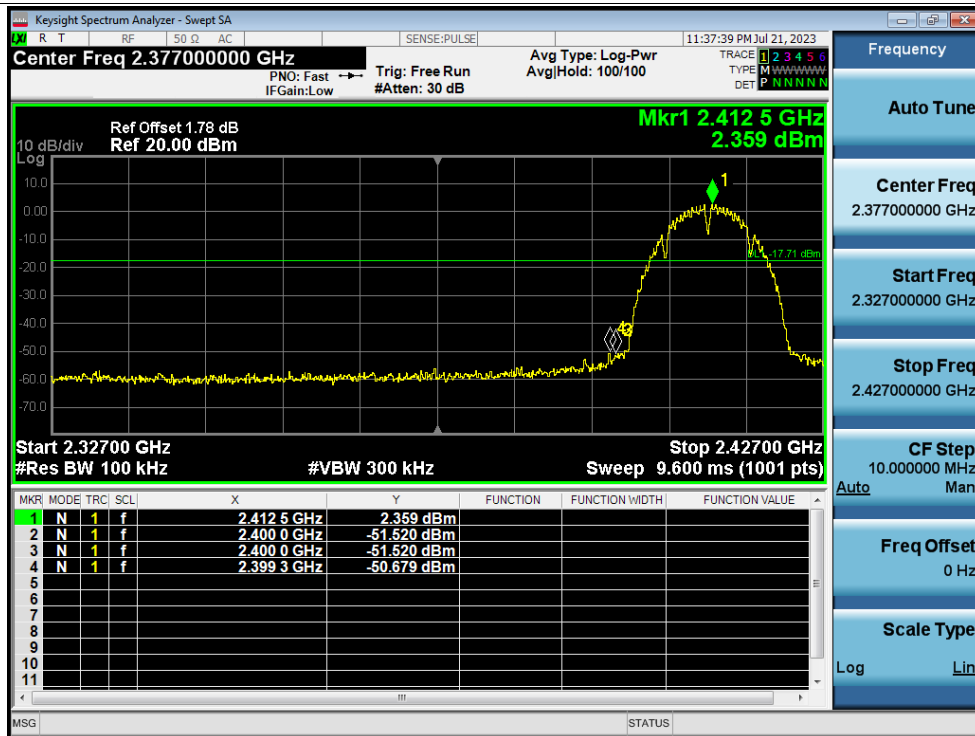
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.96	-20	Pass
NVNT	b	2462	Ant1	-58.17	-20	Pass
NVNT	g	2412	Ant1	-36.75	-20	Pass
NVNT	g	2462	Ant1	-48.19	-20	Pass
NVNT	n20	2412	Ant1	-36.43	-20	Pass
NVNT	n20	2462	Ant1	-48.74	-20	Pass
NVNT	n40	2422	Ant1	-32.66	-20	Pass
NVNT	n40	2452	Ant1	-43.06	-20	Pass

Test Graphs

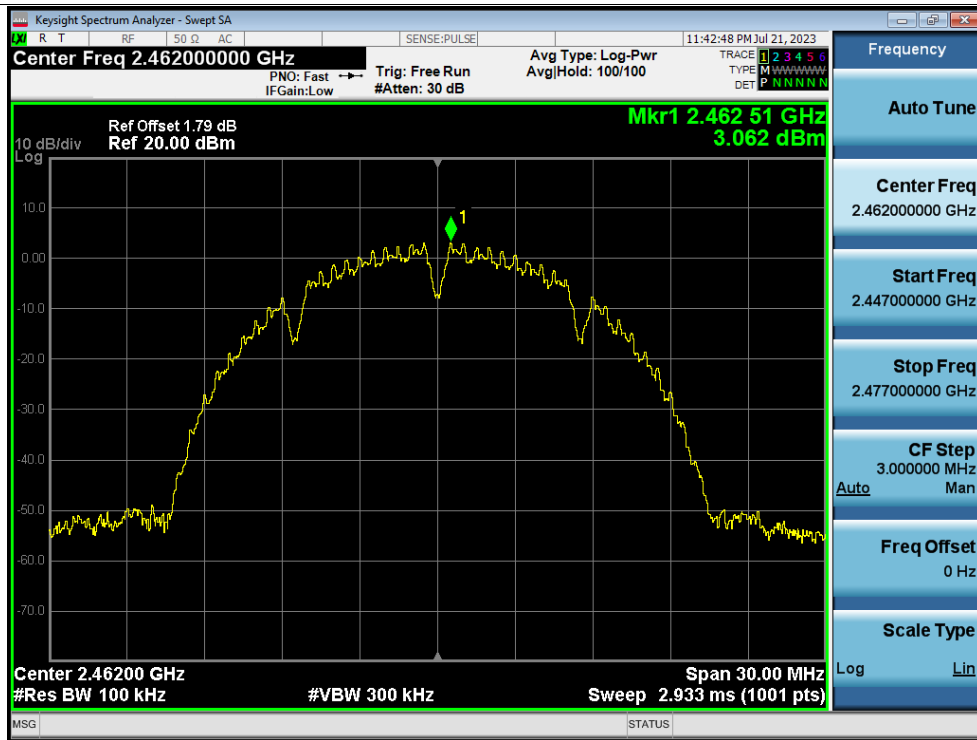
Band Edge NVNT b 2412MHz Ant1 Ref



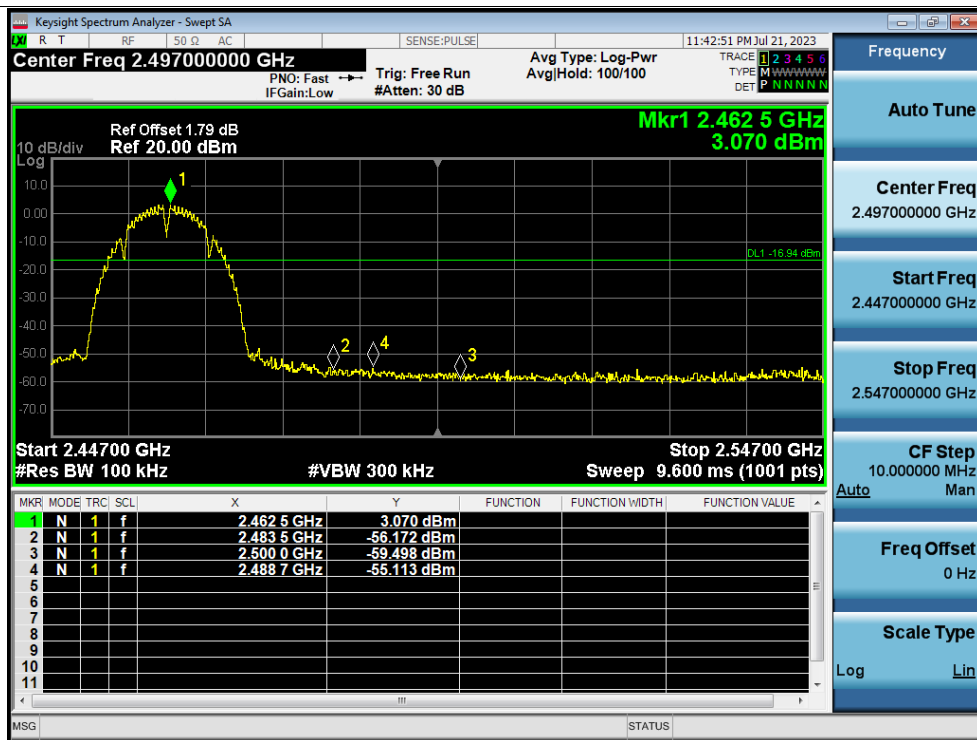
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



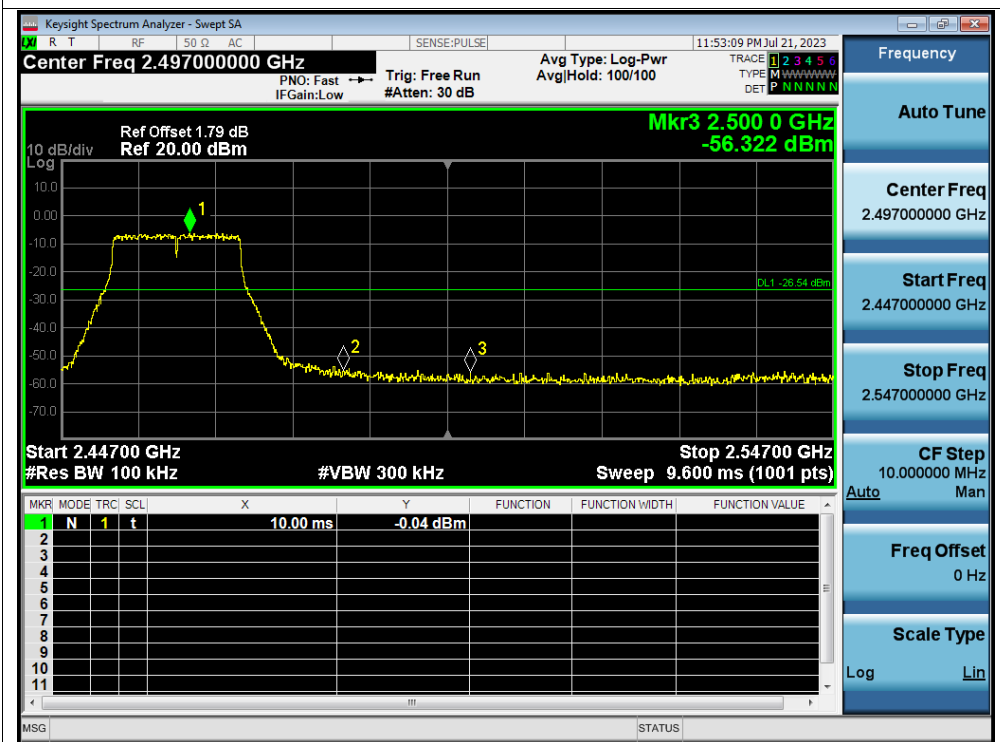




Band Edge NVNT g 2462MHz Ant1 Ref



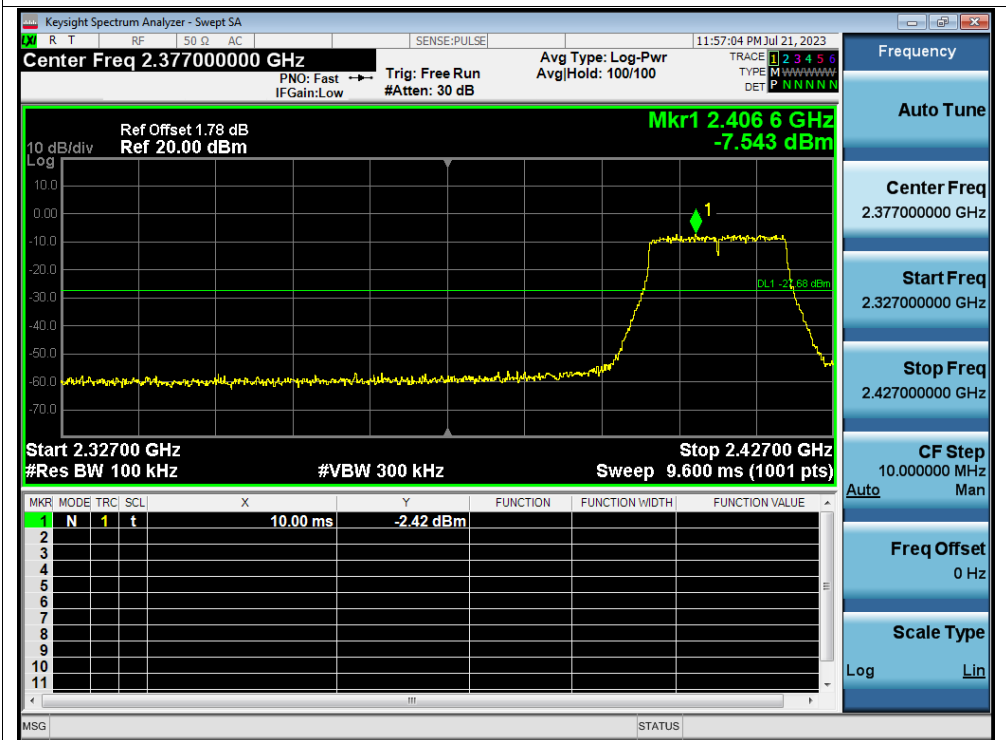
Band Edge NVNT g 2462MHz Ant1 Emission



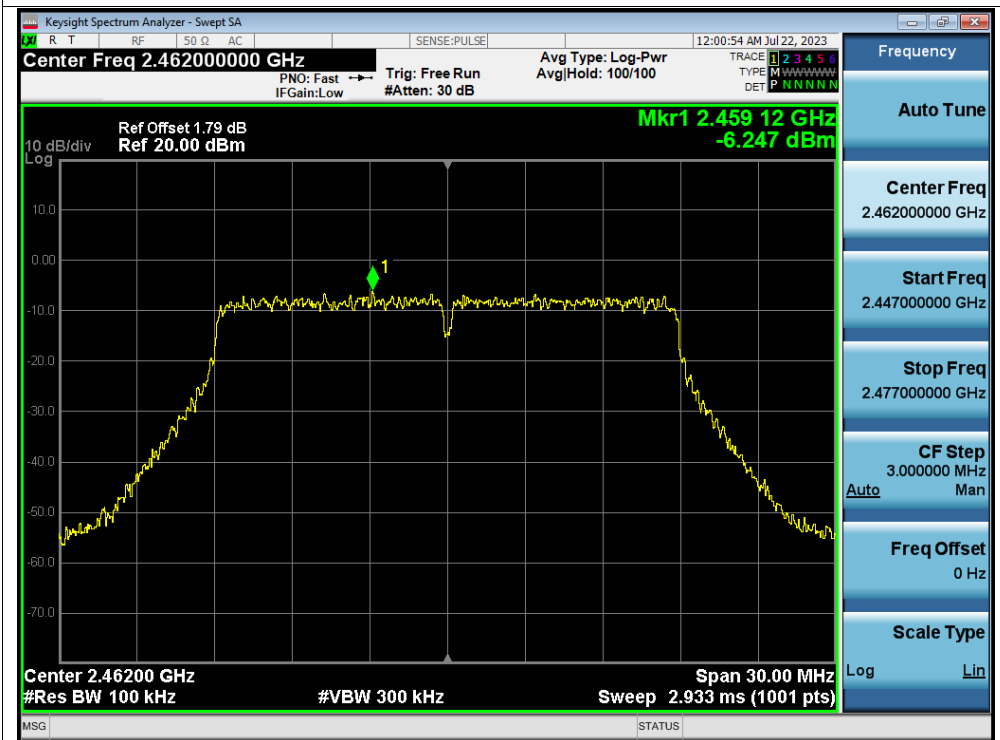
Band Edge NVNT n20 2412MHz Ant1 Ref



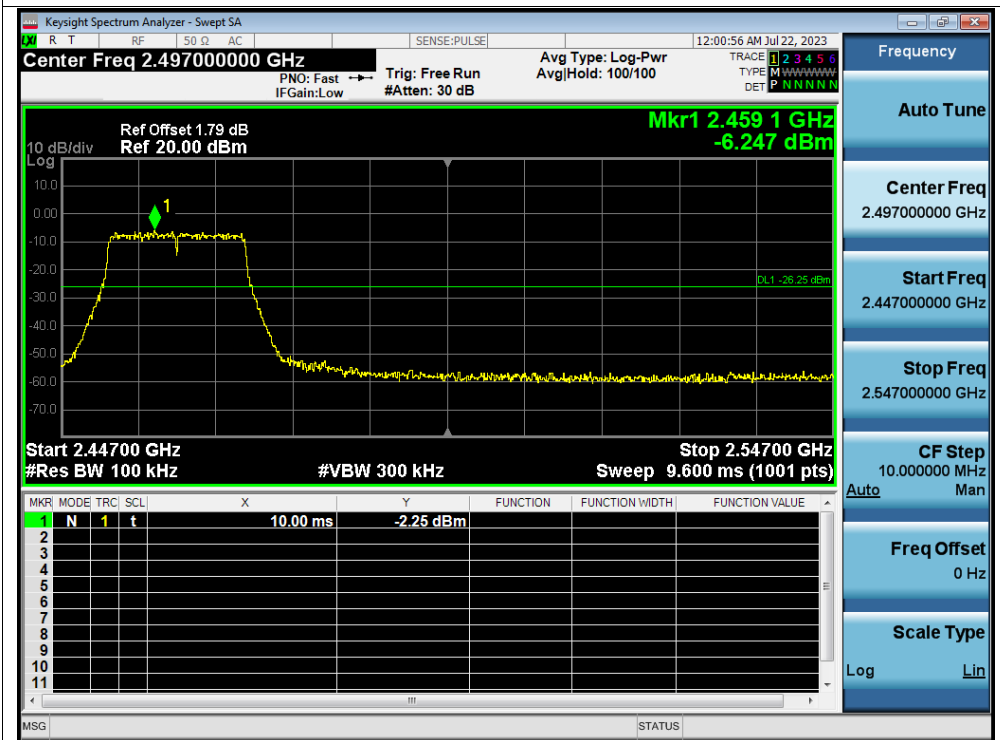
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission







## Conducted RF Spurious Emission

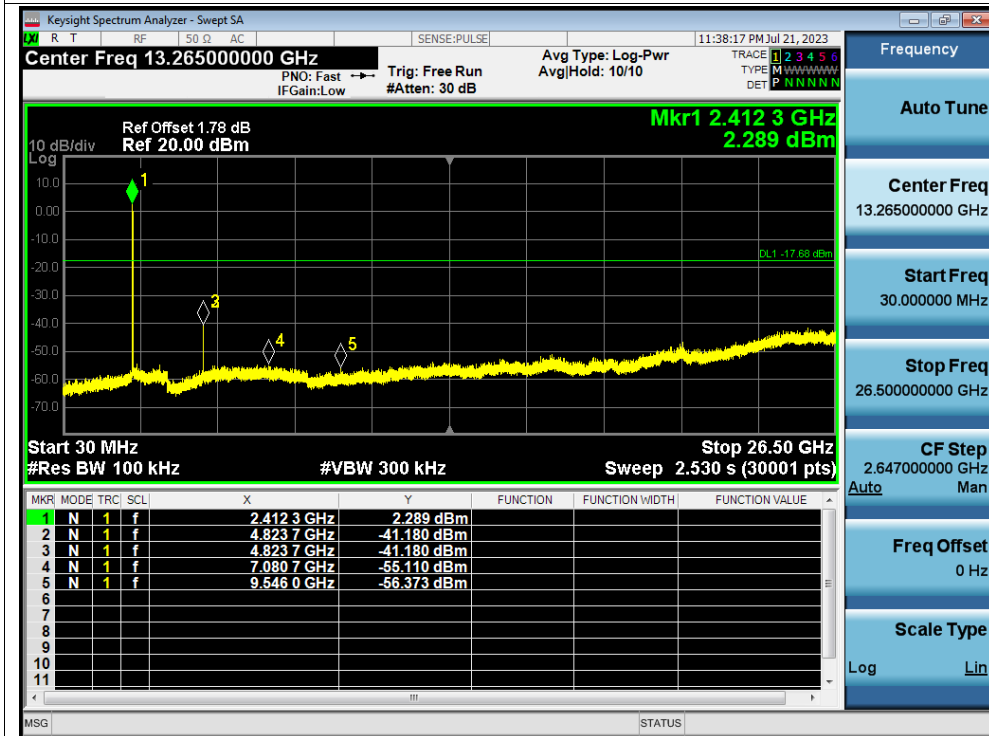
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.49	-20	Pass
NVNT	b	2437	Ant1	-44.31	-20	Pass
NVNT	b	2462	Ant1	-45.4	-20	Pass
NVNT	g	2412	Ant1	-34.64	-20	Pass
NVNT	g	2437	Ant1	-34.95	-20	Pass
NVNT	g	2462	Ant1	-35.2	-20	Pass
NVNT	n20	2412	Ant1	-35.16	-20	Pass
NVNT	n20	2437	Ant1	-35.22	-20	Pass
NVNT	n20	2462	Ant1	-35.28	-20	Pass
NVNT	n40	2422	Ant1	-31.52	-20	Pass
NVNT	n40	2437	Ant1	-31.06	-20	Pass
NVNT	n40	2452	Ant1	-30.99	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



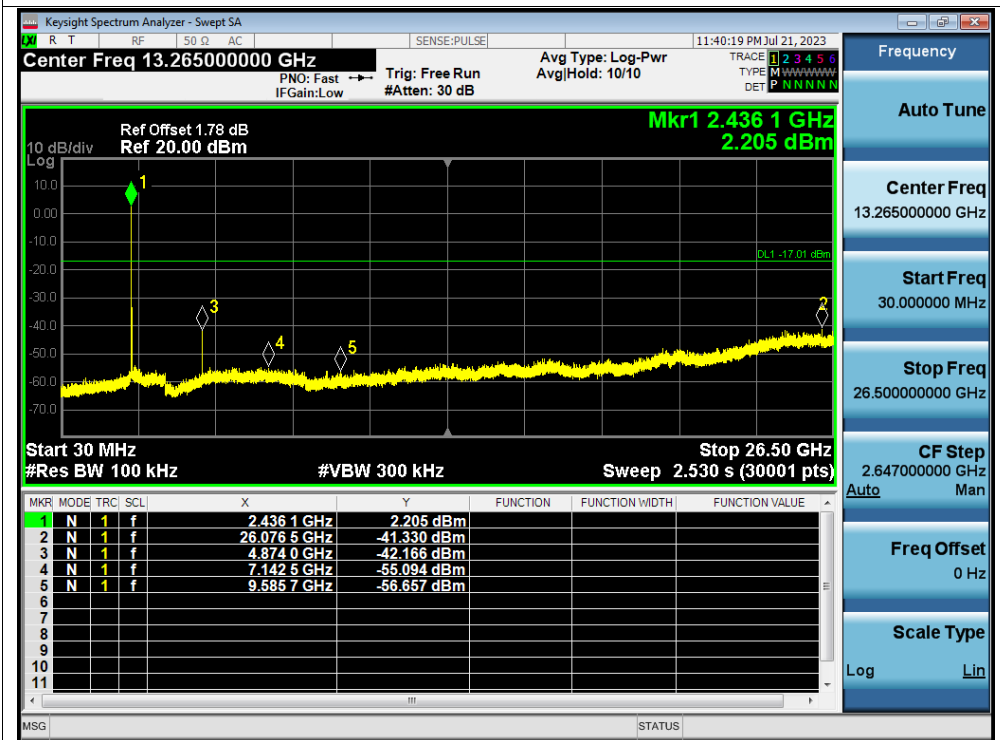
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

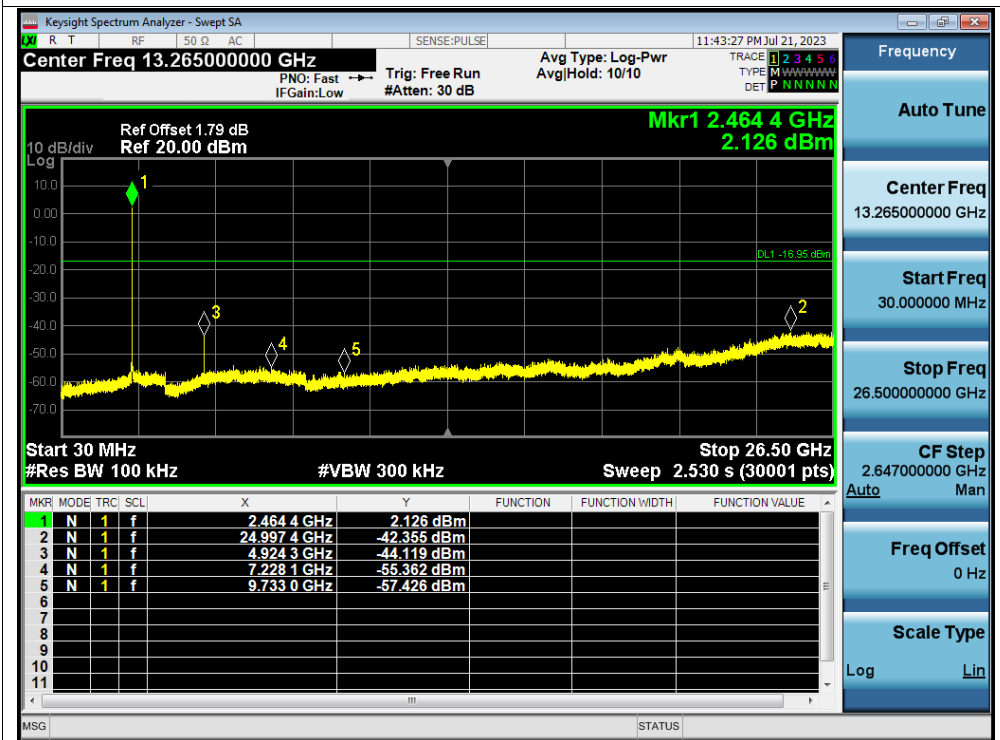




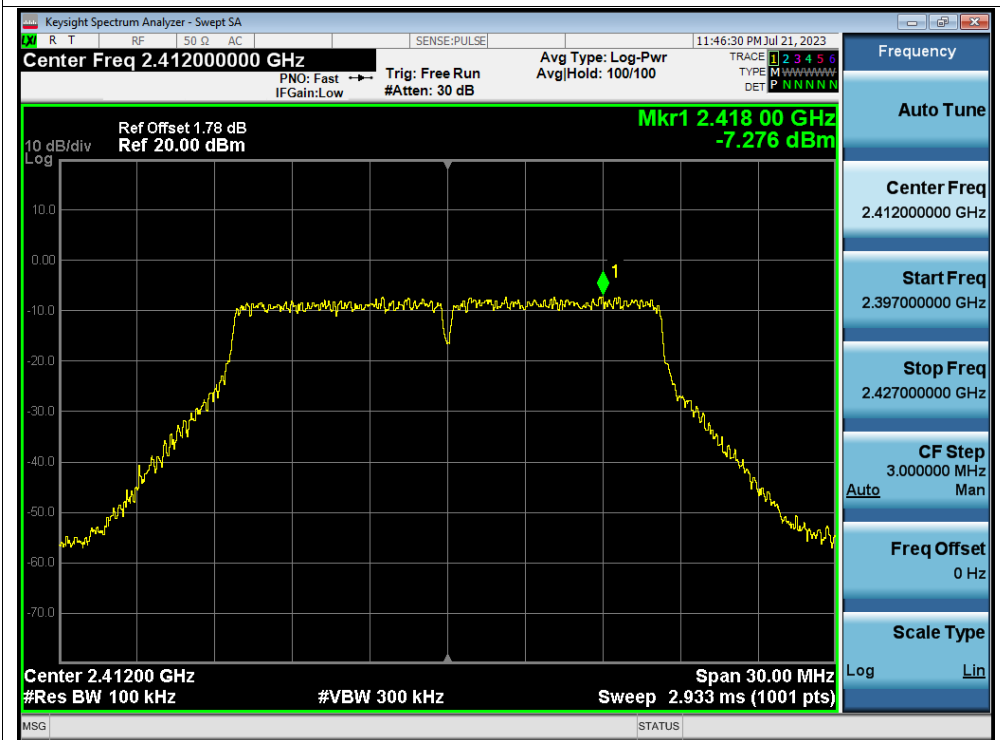
Tx. Spurious NVNT b 2462MHz Ant1 Ref



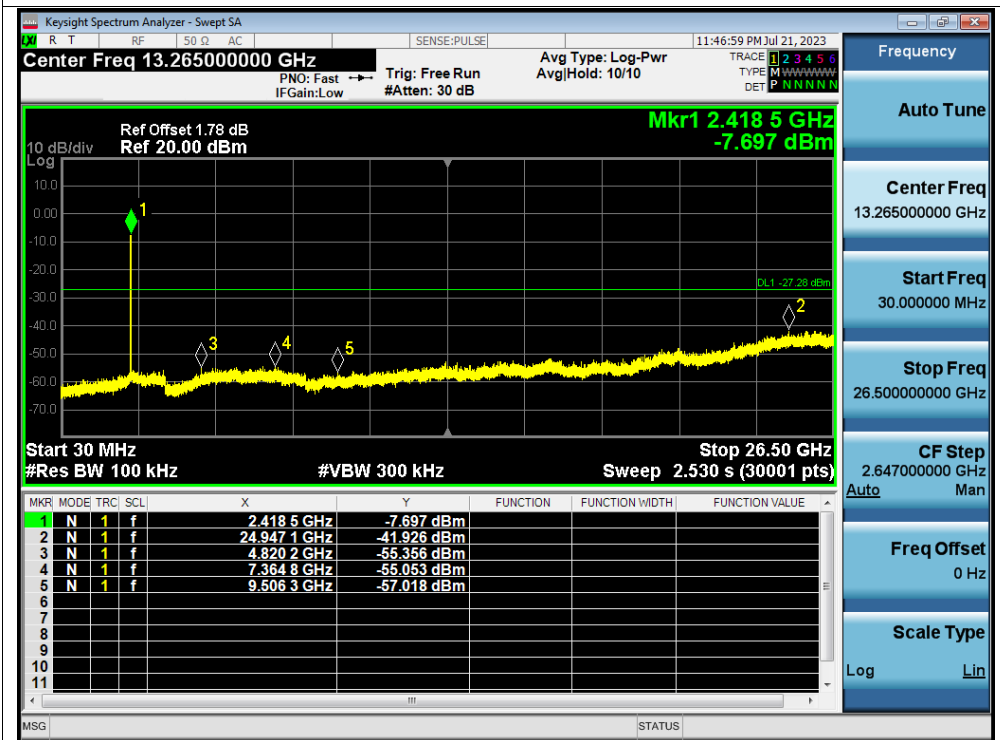
Tx. Spurious NVNT b 2462MHz Ant1 Emission



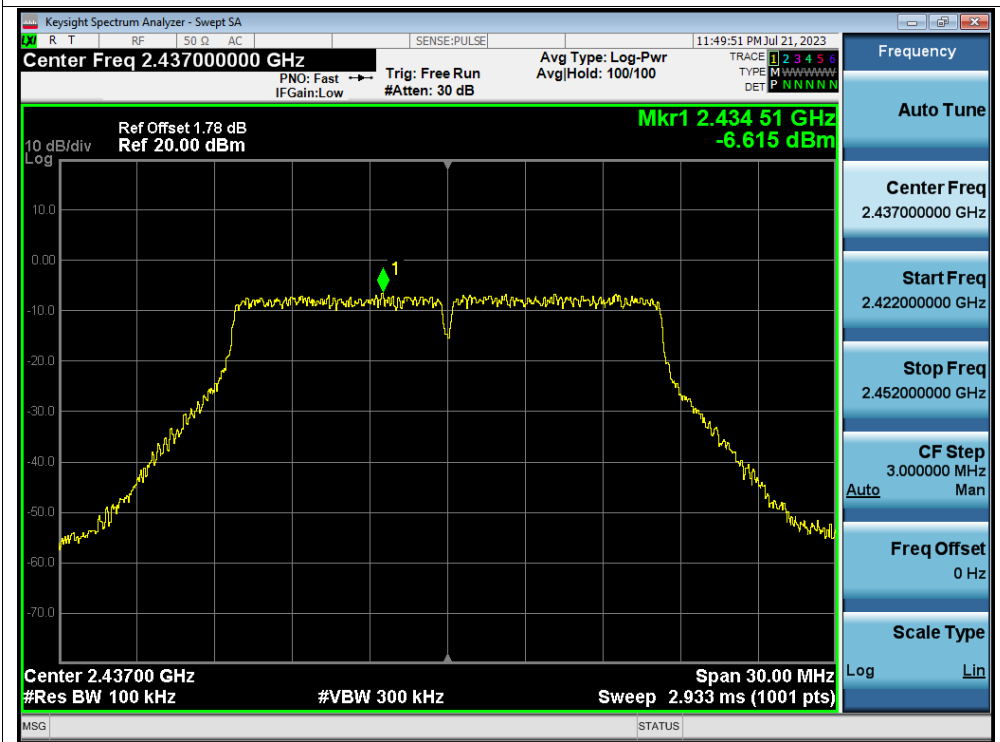
Tx. Spurious NVNT g 2412MHz Ant1 Ref



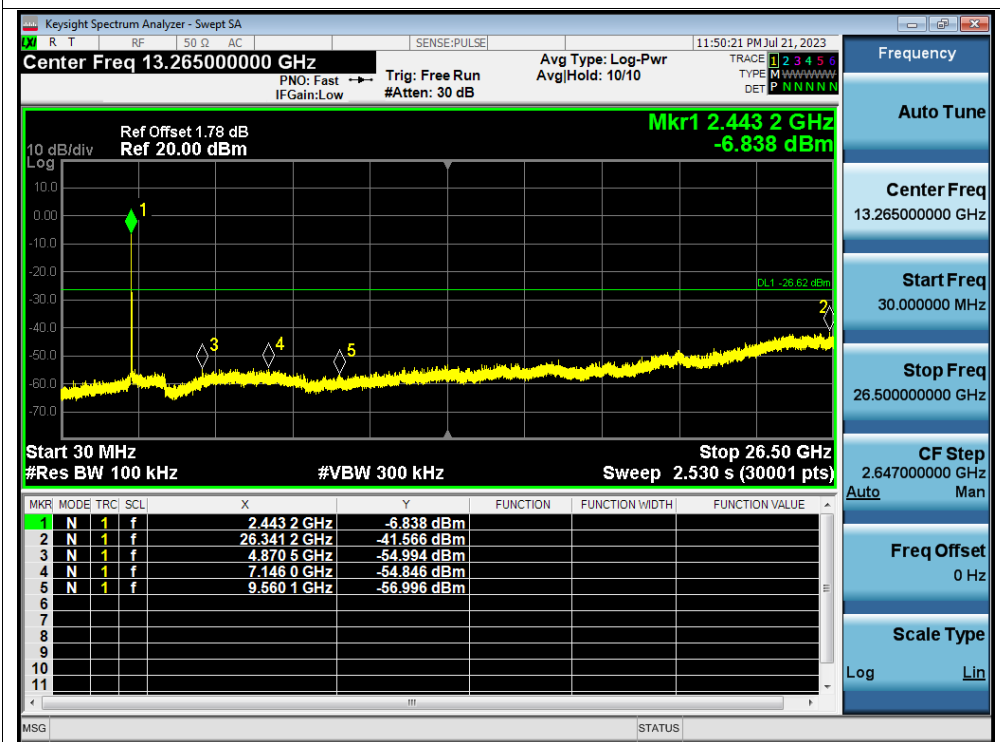
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



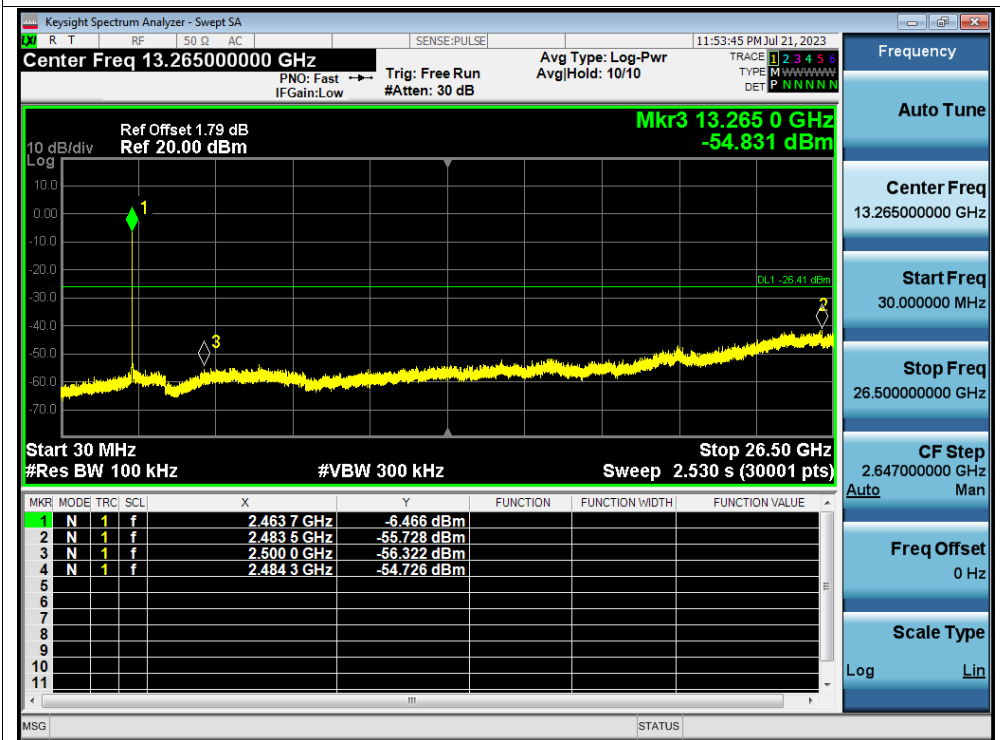
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



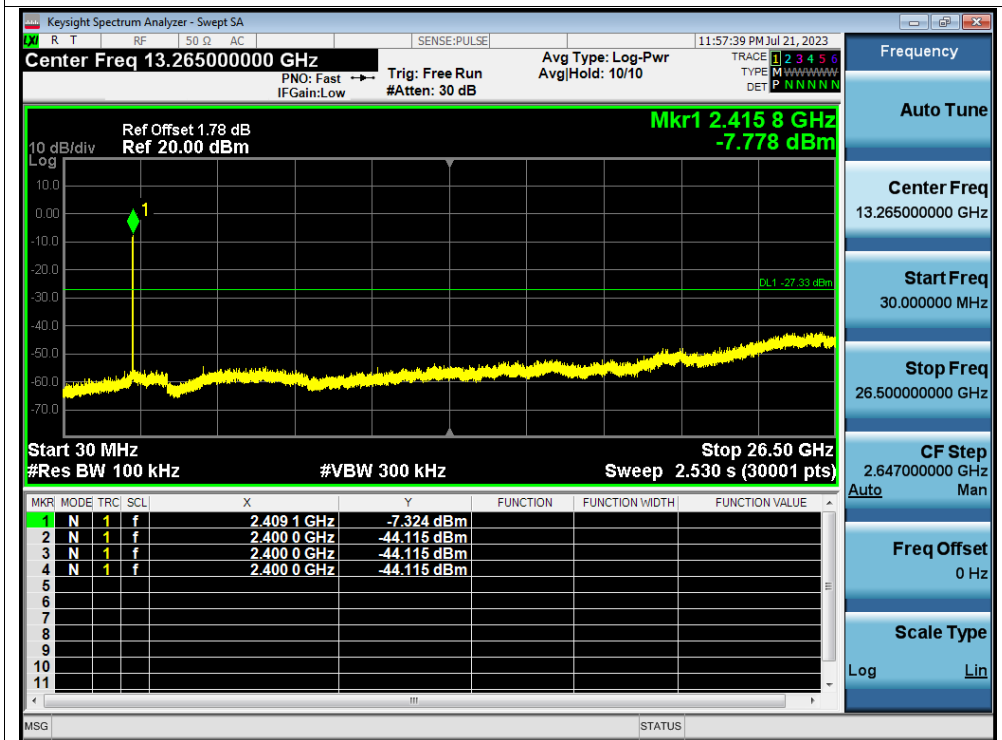
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



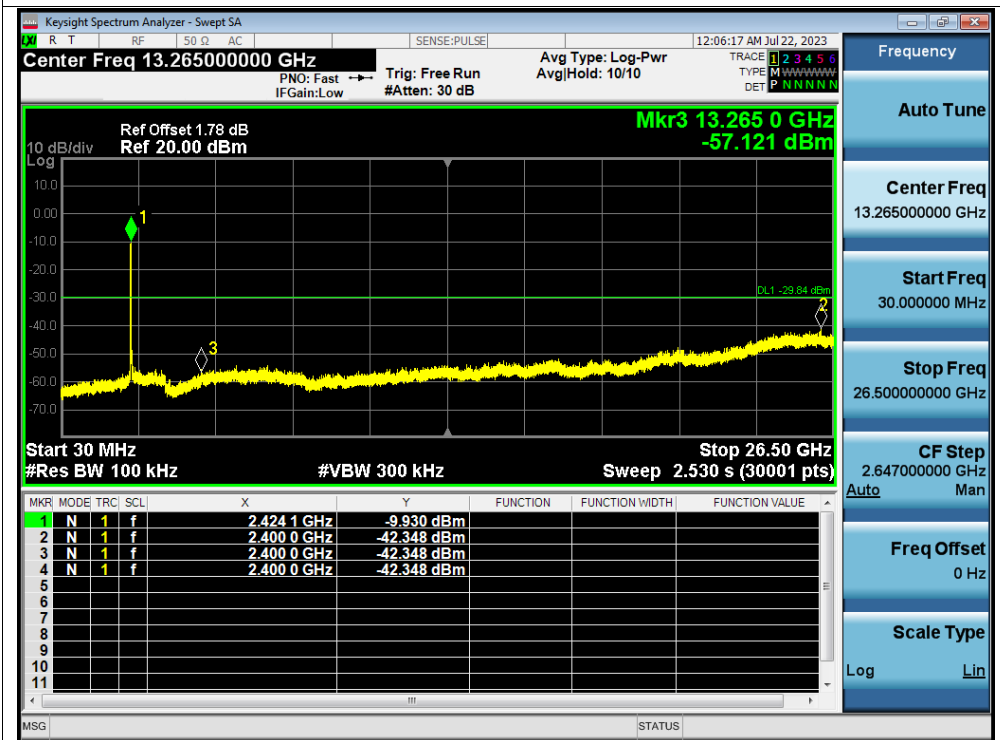




Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



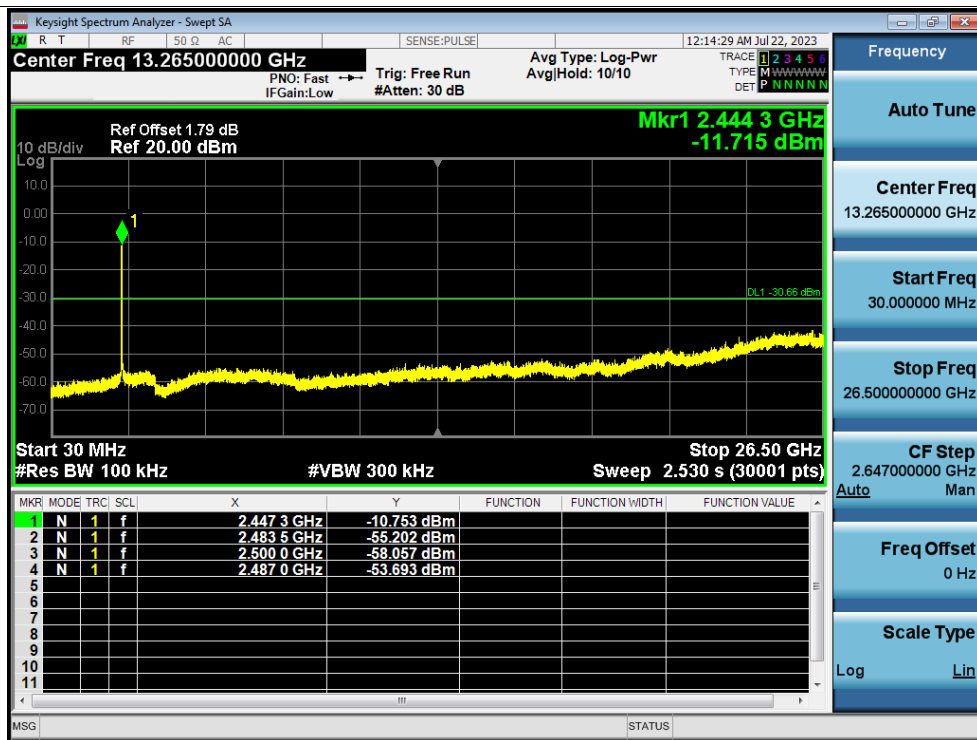




Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



## 7.5 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0