

Appendix C

7.1 Maximum Conducted Output Power

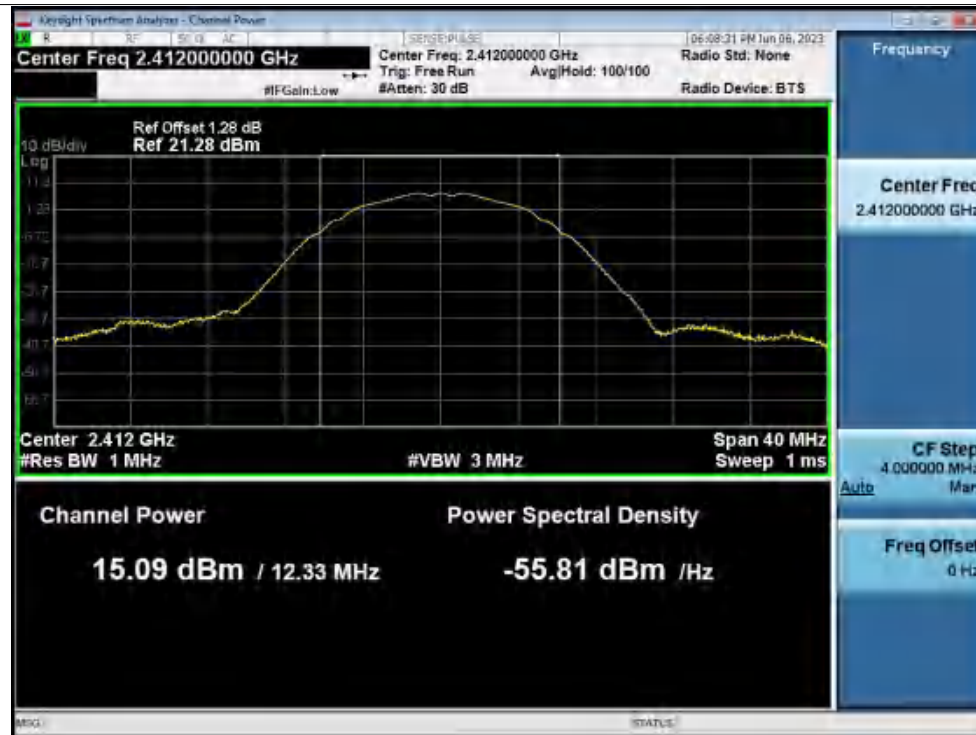
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.09	0	15.09	30	19.30	<=36.02	Pass
NVNT	b	2437	Ant1	14.44	0	14.44	30	18.65	<=36.02	Pass
NVNT	b	2462	Ant1	14.29	0	14.29	30	18.50	<=36.02	Pass
NVNT	g	2412	Ant1	16.13	0	16.13	30	20.34	<=36.02	Pass
NVNT	g	2437	Ant1	15.5	0	15.5	30	19.71	<=36.02	Pass
NVNT	g	2462	Ant1	15.31	0	15.31	30	19.52	<=36.02	Pass
NVNT	n20	2412	Ant1	16.13	0	16.13	30	20.34	<=36.02	Pass
NVNT	n20	2437	Ant1	15.52	0	15.52	30	19.73	<=36.02	Pass
NVNT	n20	2462	Ant1	15.27	0	15.27	30	19.48	<=36.02	Pass
NVNT	n40	2422	Ant1	15.78	0	15.78	30	19.99	<=36.02	Pass
NVNT	n40	2437	Ant1	15.55	0	15.55	30	19.76	<=36.02	Pass
NVNT	n40	2452	Ant1	12.68	0	12.68	30	16.89	<=36.02	Pass
NVNT	ax20	2412	Ant1	16.74	0	16.74	30	20.95	<=36.02	Pass
NVNT	ax20	2437	Ant1	16.16	0	16.16	30	20.37	<=36.02	Pass
NVNT	ax20	2462	Ant1	15.84	0	15.84	30	20.05	<=36.02	Pass
NVNT	ax40	2422	Ant1	13.63	0	13.63	30	17.84	<=36.02	Pass
NVNT	ax40	2437	Ant1	13.16	0	13.16	30	17.37	<=36.02	Pass
NVNT	ax40	2452	Ant1	16.33	0	16.33	30	20.54	<=36.02	Pass

Note1: Antenna Gain: 4.21dBi;

Note2: E.I.R.P = Measured Power + Antenna Gain

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



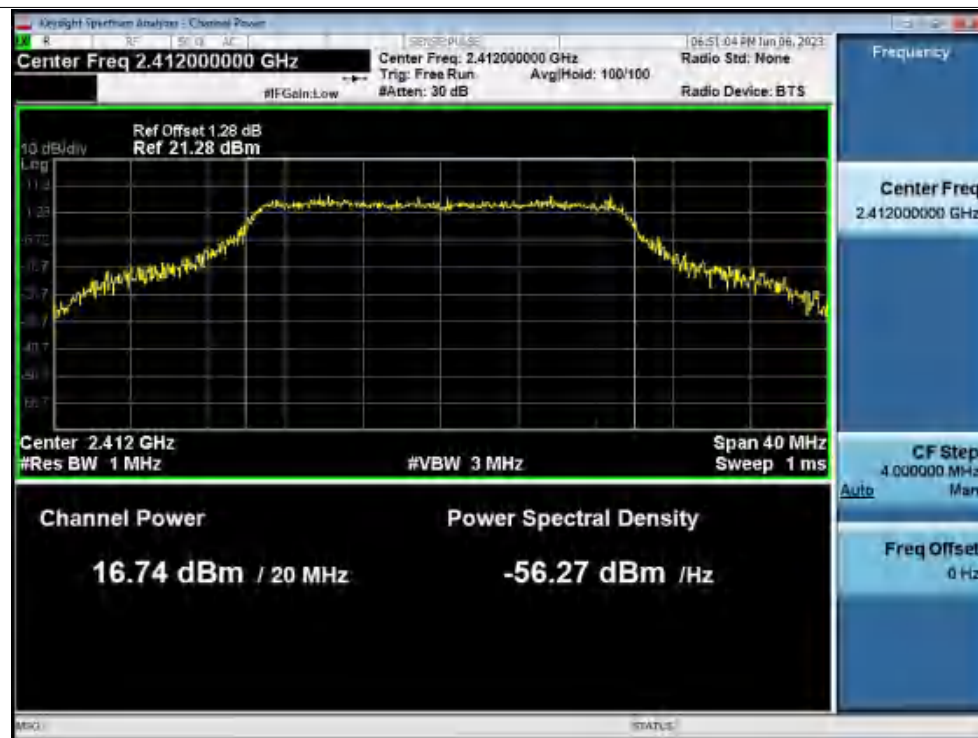
Power NVNT n40 2437MHz Ant1



Power NVNT n40 2452MHz Ant1



Power NVNT ax20 2412MHz Ant1



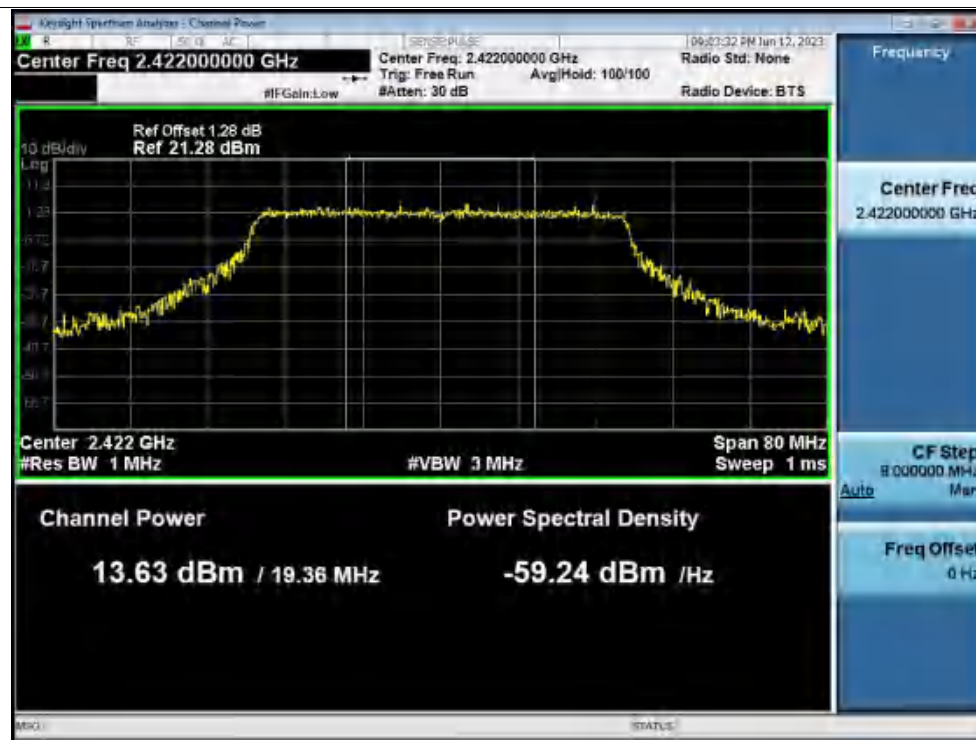
Power NVNT ax20 2437MHz Ant1



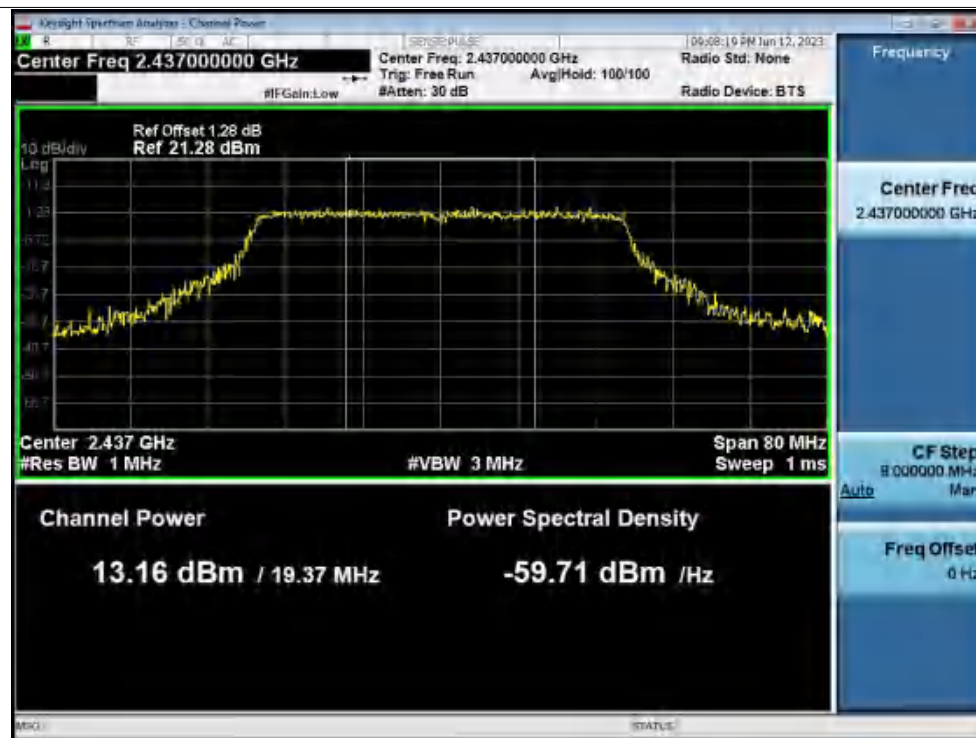
Power NVNT ax20 2462MHz Ant1



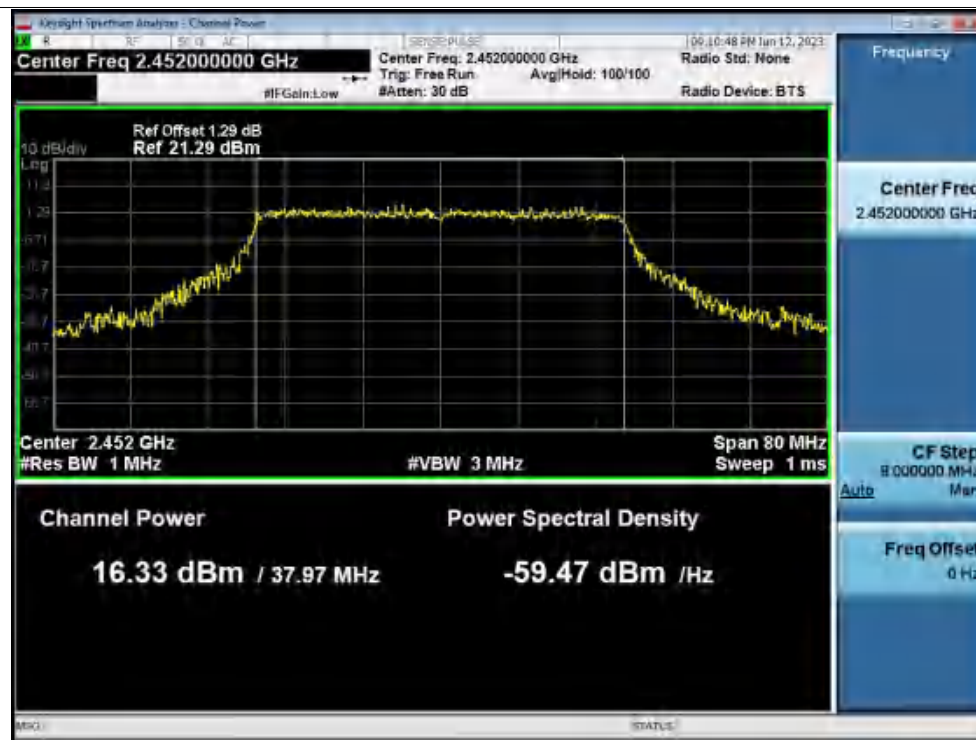
Power NVNT ax40 2422MHz Ant1



Power NVNT ax40 2437MHz Ant1



Power NVNT ax40 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	7.522	0.5	Pass
NVNT	b	2437	Ant1	7.036	0.5	Pass
NVNT	b	2462	Ant1	7.055	0.5	Pass
NVNT	g	2412	Ant1	16.333	0.5	Pass
NVNT	g	2437	Ant1	17.573	0.5	Pass
NVNT	g	2462	Ant1	17.556	0.5	Pass
NVNT	n20	2412	Ant1	17.577	0.5	Pass
NVNT	n20	2437	Ant1	17.545	0.5	Pass
NVNT	n20	2462	Ant1	17.572	0.5	Pass
NVNT	n40	2422	Ant1	35.745	0.5	Pass
NVNT	n40	2437	Ant1	36.31	0.5	Pass
NVNT	n40	2452	Ant1	36.291	0.5	Pass
NVNT	ax20	2412	Ant1	18.854	0.5	Pass
NVNT	ax20	2437	Ant1	18.874	0.5	Pass
NVNT	ax20	2462	Ant1	18.911	0.5	Pass
NVNT	ax40	2422	Ant1	37.812	0.5	Pass
NVNT	ax40	2437	Ant1	37.747	0.5	Pass
NVNT	ax40	2452	Ant1	37.896	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



-6dB Bandwidth NVNT ax20 2412MHz Ant1



-6dB Bandwidth NVNT ax20 2437MHz Ant1



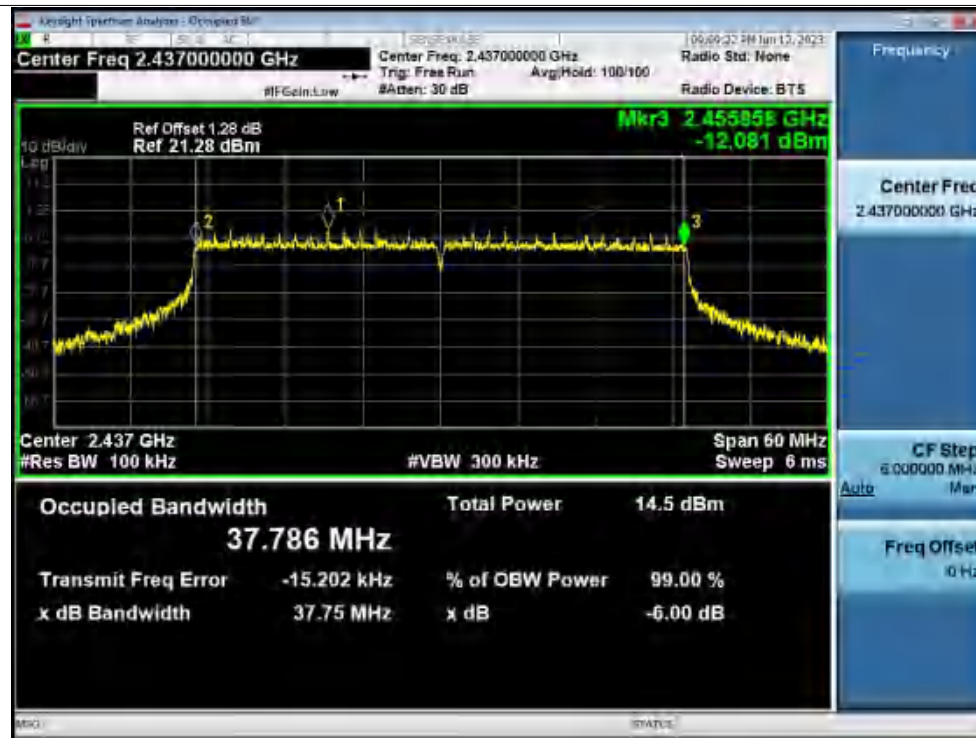
-6dB Bandwidth NVNT ax20 2462MHz Ant1



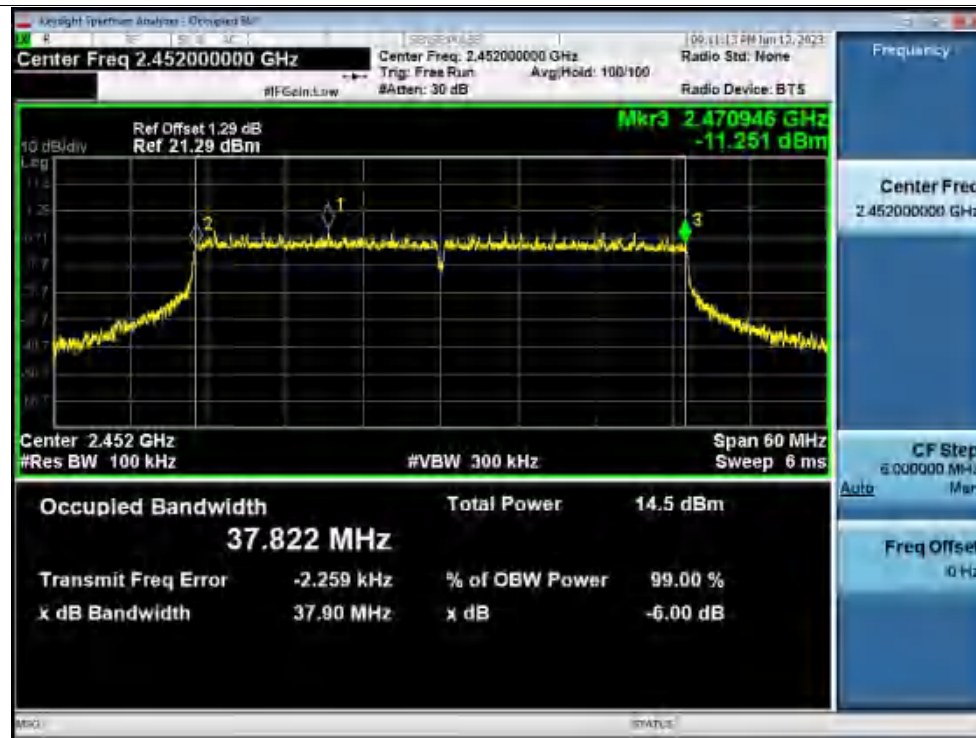
-6dB Bandwidth NVNT ax40 2422MHz Ant1



-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.329
NVNT	b	2437	Ant1	12.348
NVNT	b	2462	Ant1	12.359
NVNT	g	2412	Ant1	16.725
NVNT	g	2437	Ant1	17.984
NVNT	g	2462	Ant1	17.96
NVNT	n20	2412	Ant1	18.047
NVNT	n20	2437	Ant1	17.955
NVNT	n20	2462	Ant1	18.038
NVNT	n40	2422	Ant1	36.557
NVNT	n40	2437	Ant1	36.608
NVNT	n40	2452	Ant1	36.573
NVNT	ax20	2412	Ant1	19.14
NVNT	ax20	2437	Ant1	19.134
NVNT	ax20	2462	Ant1	19.146
NVNT	ax40	2422	Ant1	38.022
NVNT	ax40	2437	Ant1	37.907
NVNT	ax40	2452	Ant1	37.969

Test Graphs

OBW NVNT b 2412MHz Ant1



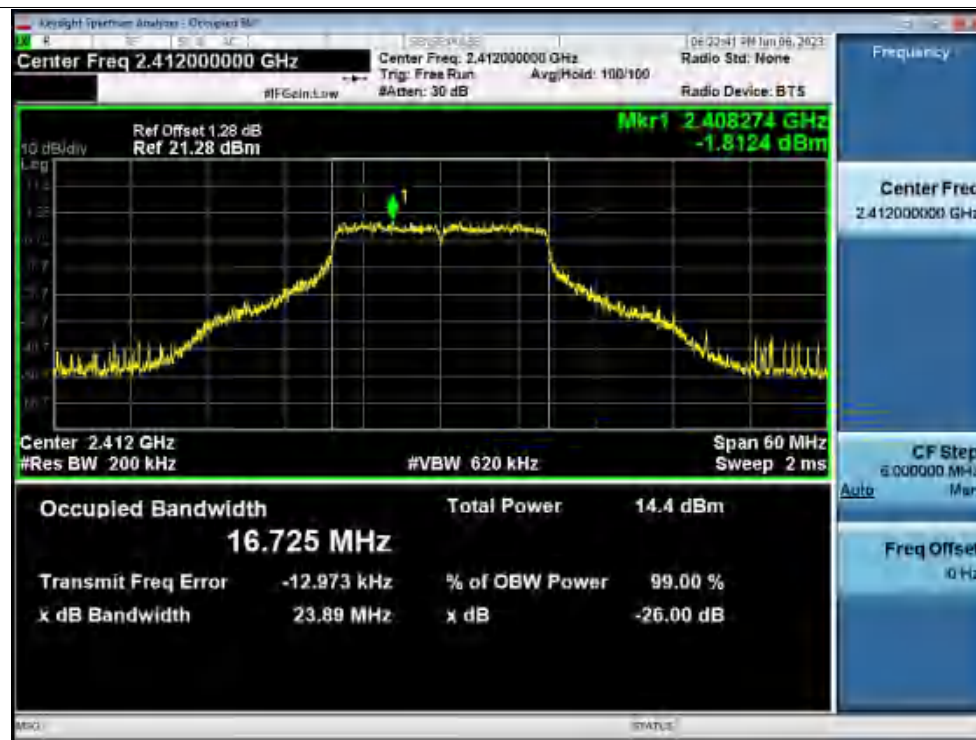
OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1



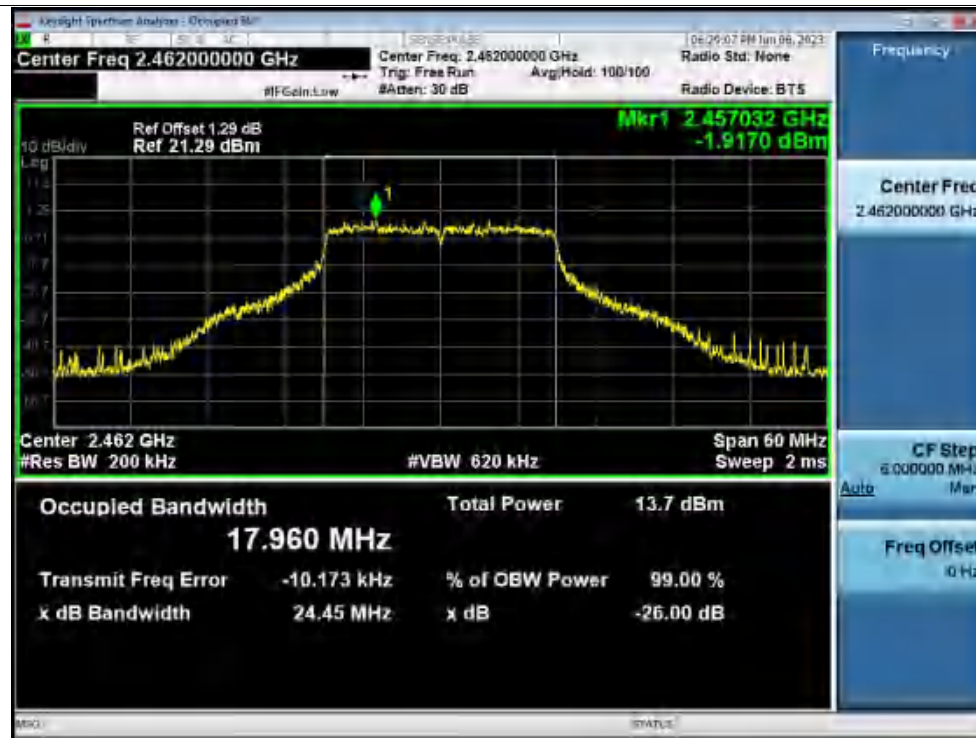
OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



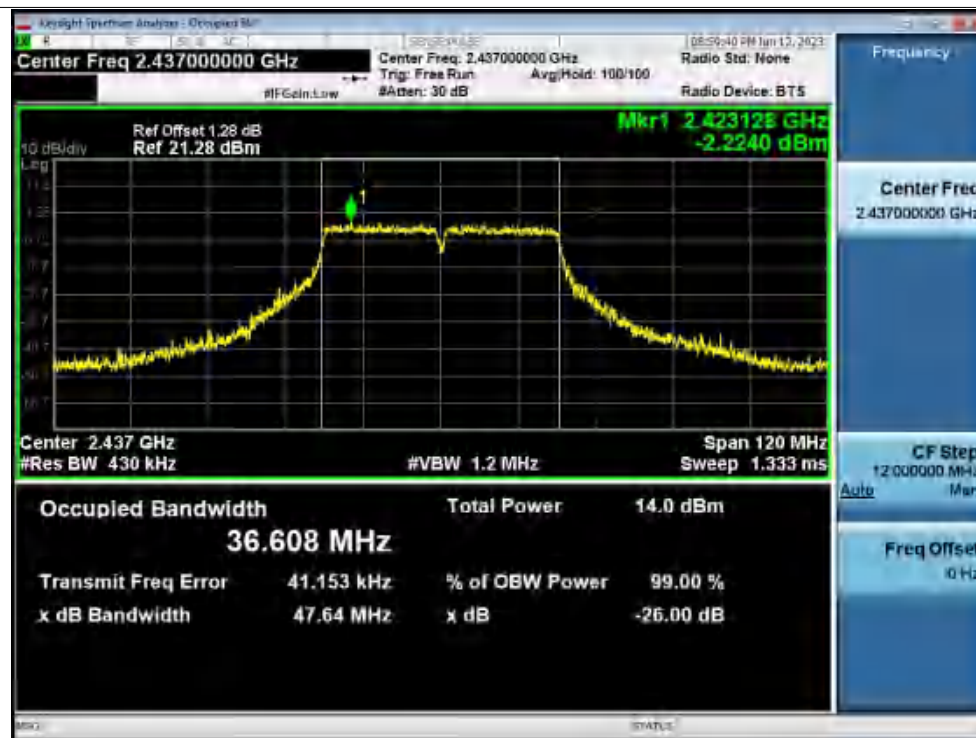
OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



OBW NVNT ax20 2412MHz Ant1



OBW NVNT ax20 2437MHz Ant1



OBW NVNT ax20 2462MHz Ant1



OBW NVNT ax40 2422MHz Ant1



OBW NVNT ax40 2437MHz Ant1



OBW NVNT ax40 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	-5.89	0	-5.89	8	Pass
NVNT	b	2437	Ant1	-8.05	0	-8.05	8	Pass
NVNT	b	2462	Ant1	-5.37	0	-5.37	8	Pass
NVNT	g	2412	Ant1	-15.83	0	-15.83	8	Pass
NVNT	g	2437	Ant1	-16.93	0	-16.93	8	Pass
NVNT	g	2462	Ant1	-17.3	0	-17.3	8	Pass
NVNT	n20	2412	Ant1	-16.01	0	-16.01	8	Pass
NVNT	n20	2437	Ant1	-17.51	0	-17.51	8	Pass
NVNT	n20	2462	Ant1	-16.99	0	-16.99	8	Pass
NVNT	n40	2422	Ant1	-18.54	0	-18.54	8	Pass
NVNT	n40	2437	Ant1	-20.26	0	-20.26	8	Pass
NVNT	n40	2452	Ant1	-20.19	0	-20.19	8	Pass
NVNT	ax20	2412	Ant1	-17.58	0	-17.58	8	Pass
NVNT	ax20	2437	Ant1	-17.61	0	-17.61	8	Pass
NVNT	ax20	2462	Ant1	-18.05	0	-18.05	8	Pass
NVNT	ax40	2422	Ant1	-20.94	0	-20.94	8	Pass
NVNT	ax40	2437	Ant1	-19.75	0	-19.75	8	Pass
NVNT	ax40	2452	Ant1	-20.91	0	-20.91	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



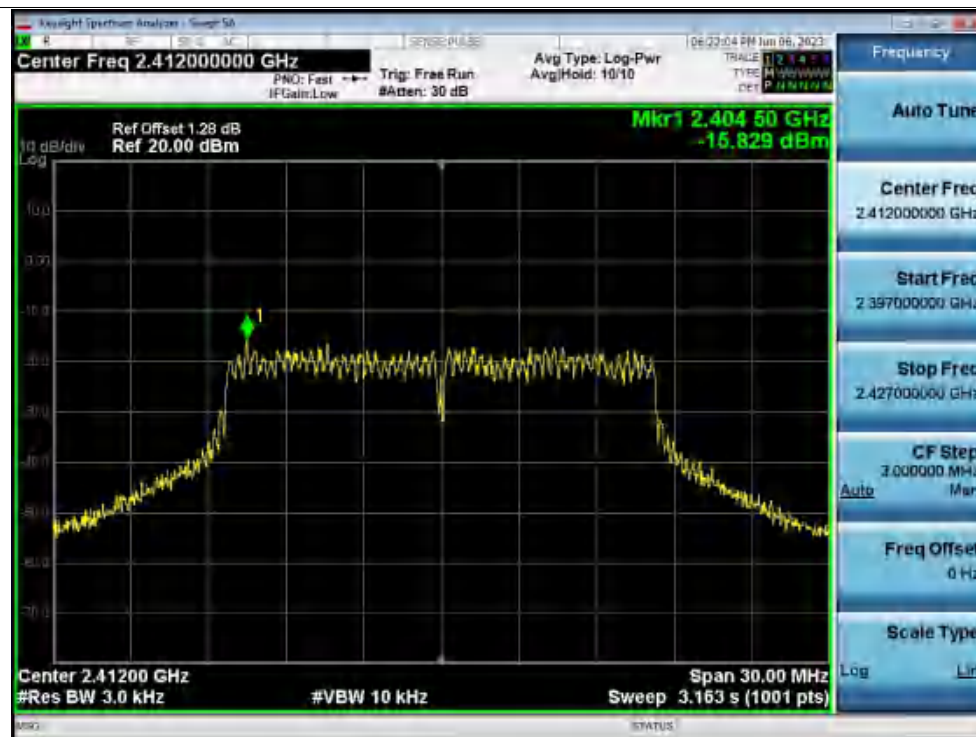
PSD NVNT b 2437MHz Ant1



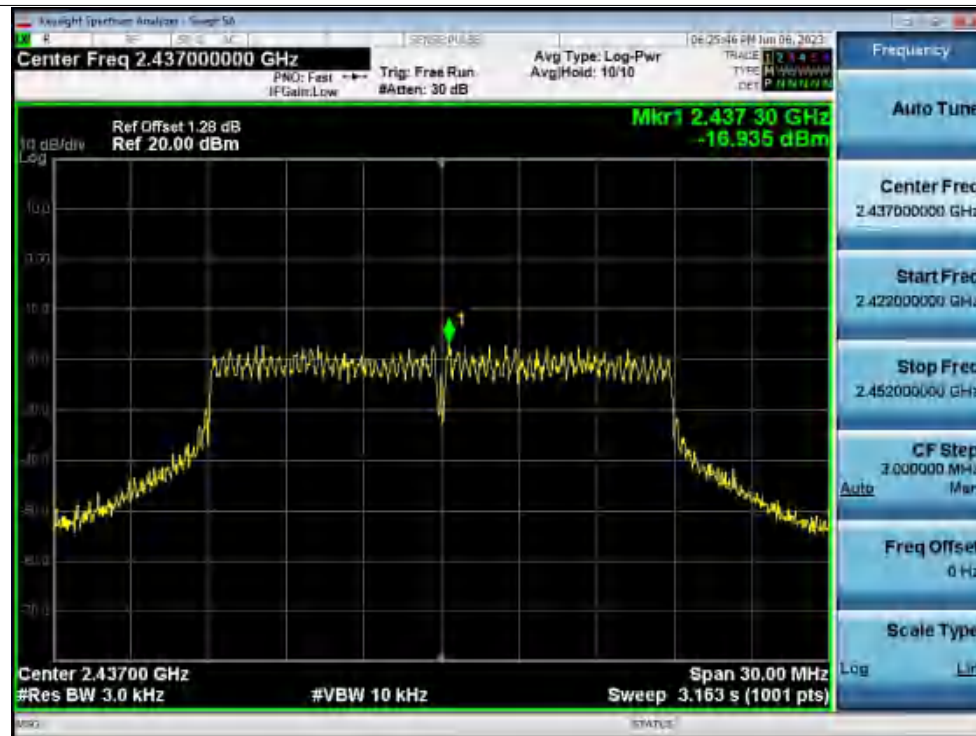
PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



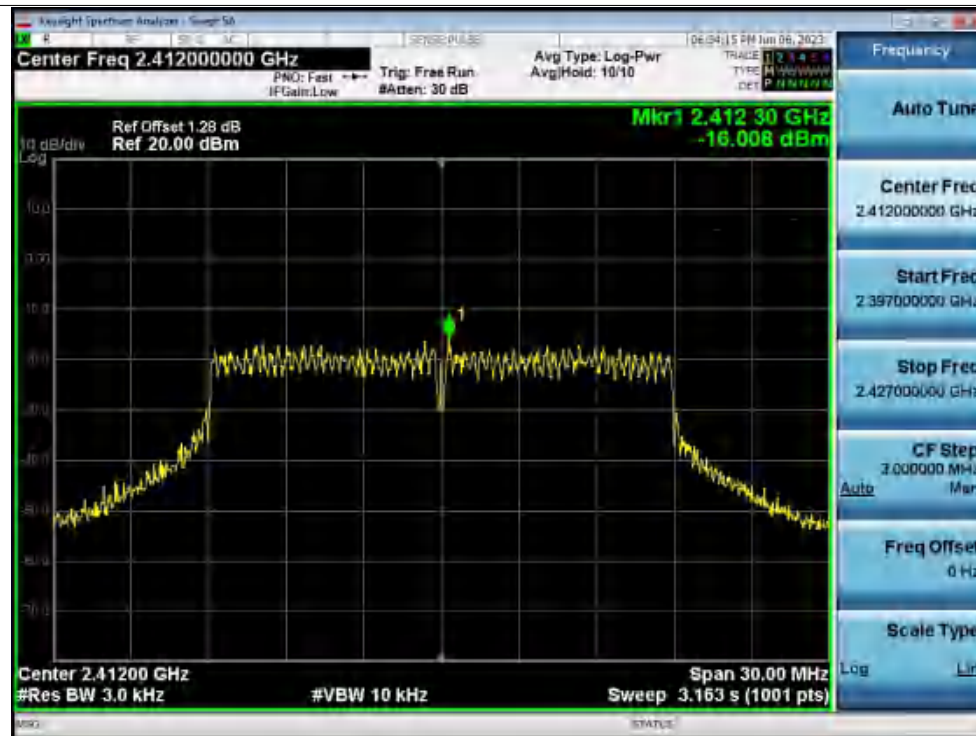
PSD NVNT g 2437MHz Ant1



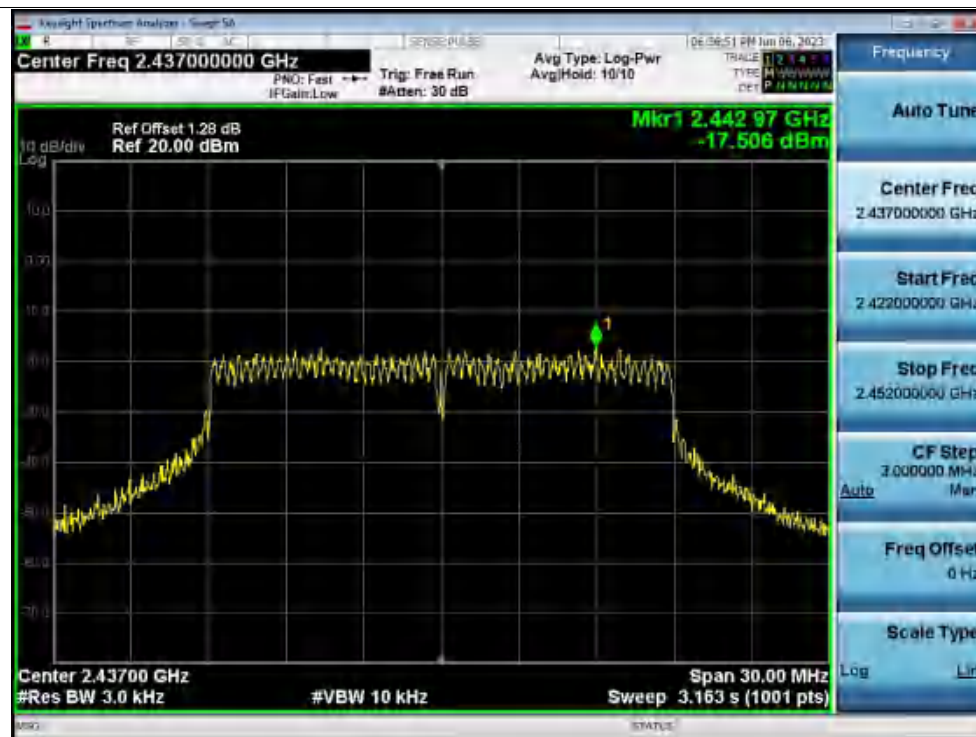
PSD NVNT g 2462MHz Ant1



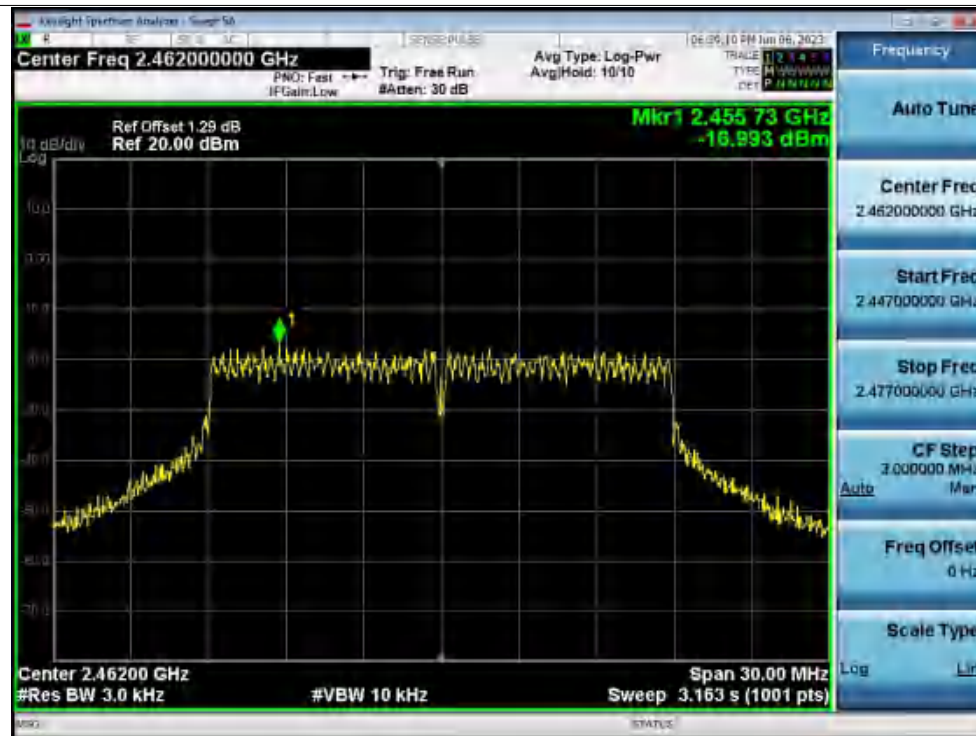
PSD NVNT n20 2412MHz Ant1



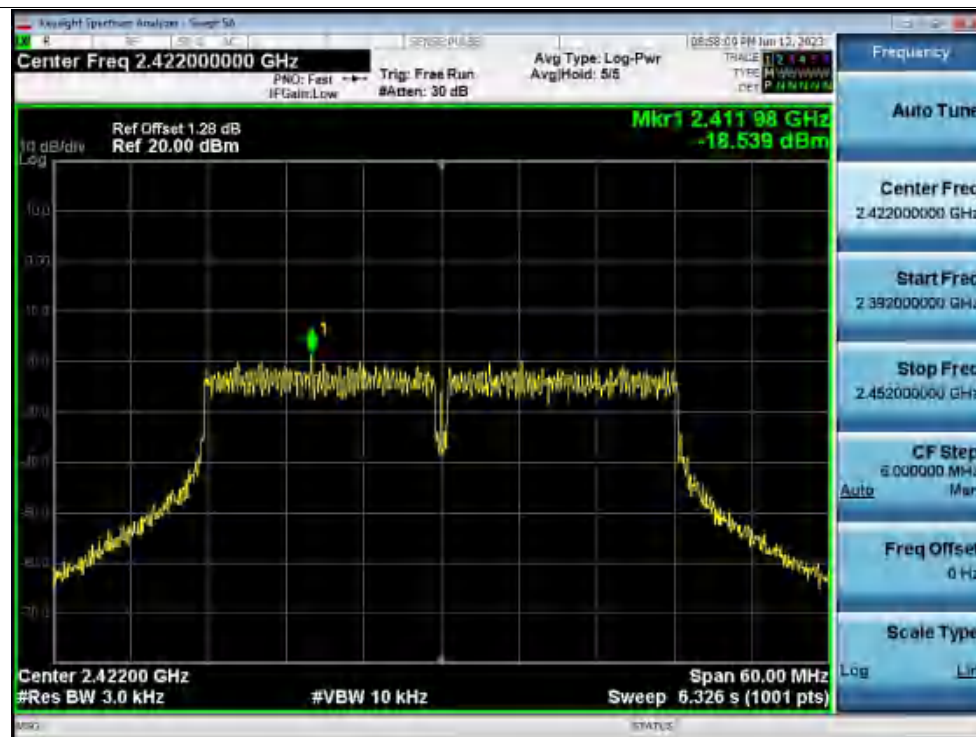
PSD NVNT n20 2437MHz Ant1



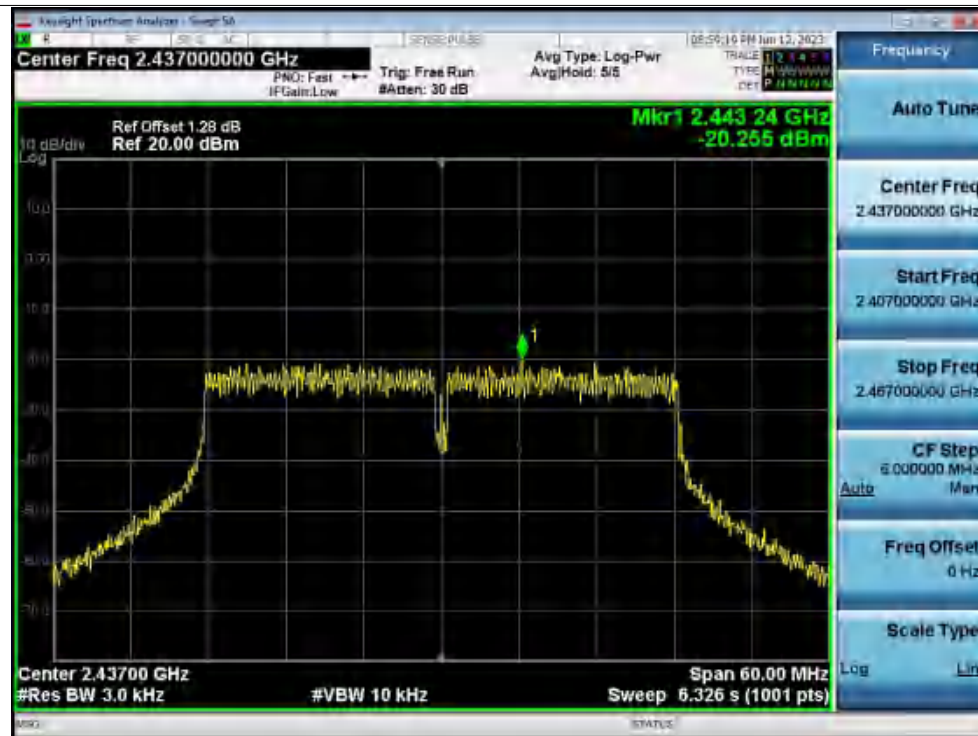
PSD NVNT n20 2462MHz Ant1



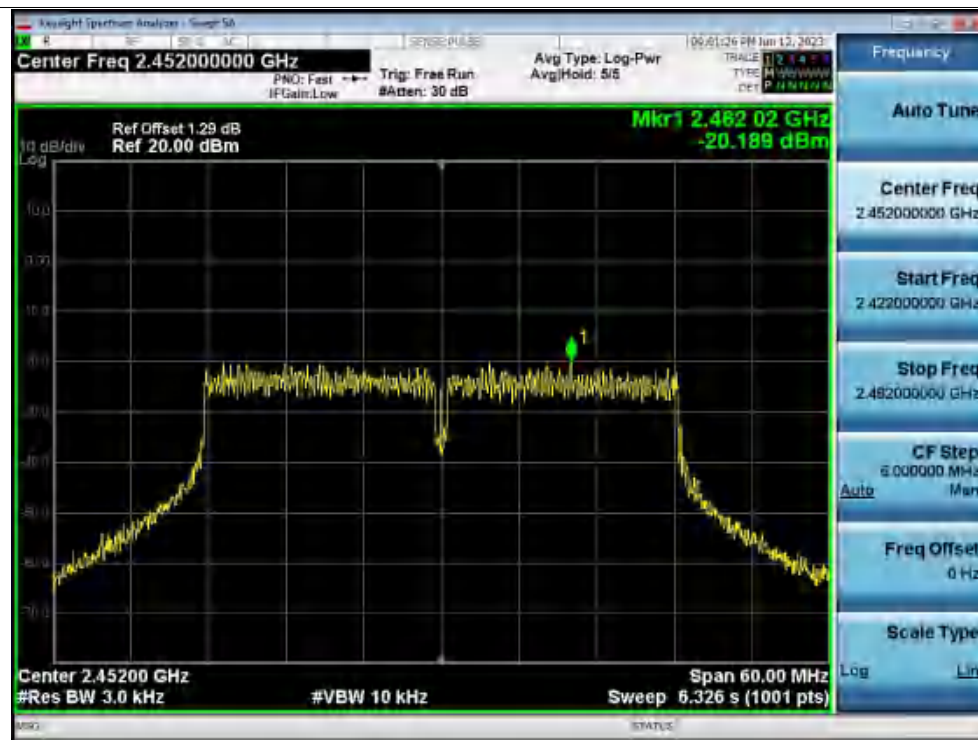
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



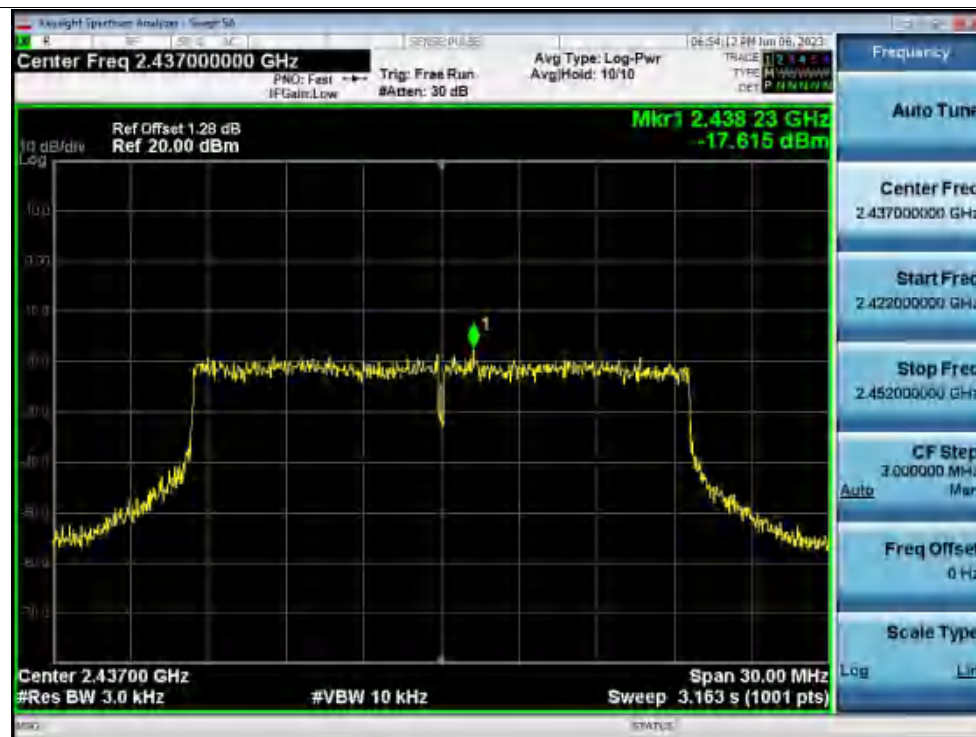
PSD NVNT n40 2452MHz Ant1



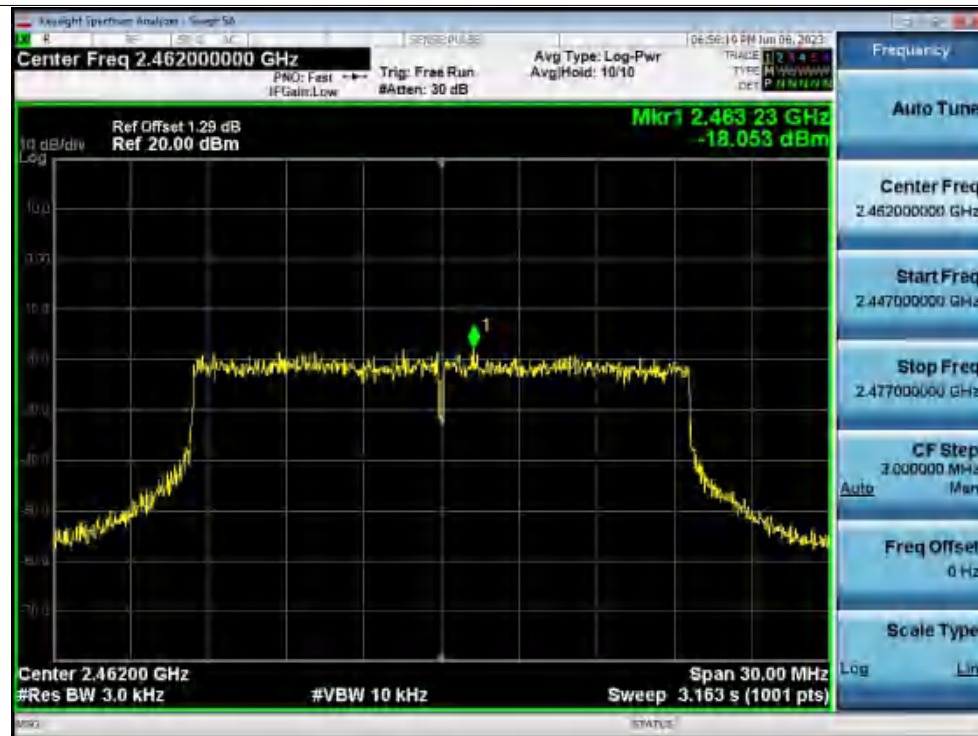
PSD NVNT ax20 2412MHz Ant1



PSD NVNT ax20 2437MHz Ant1



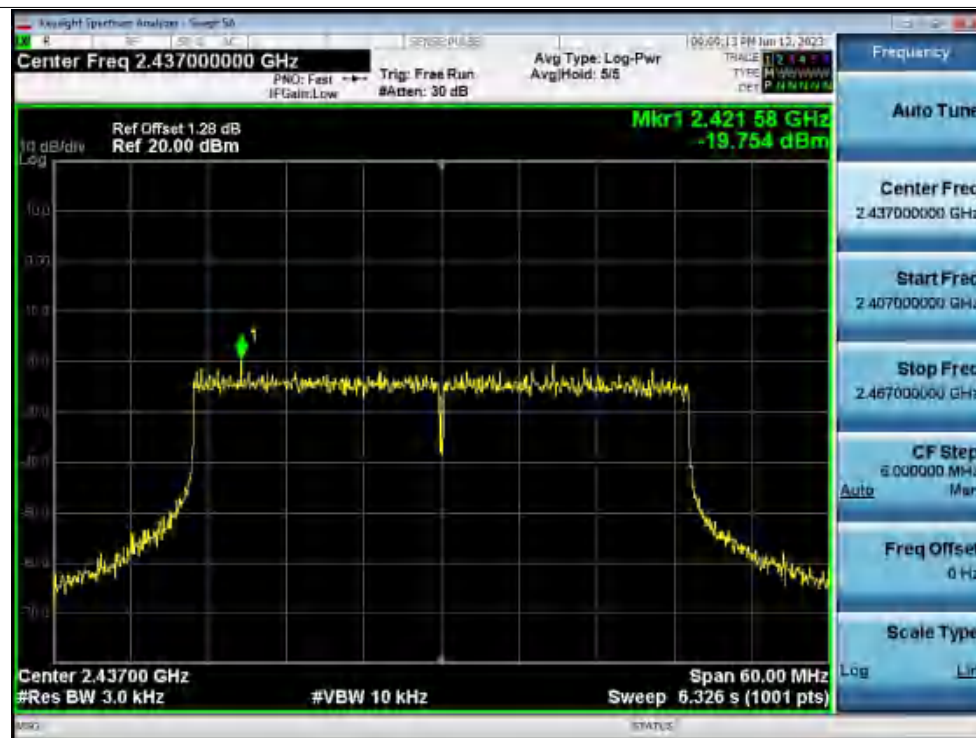
PSD NVNT ax20 2462MHz Ant1



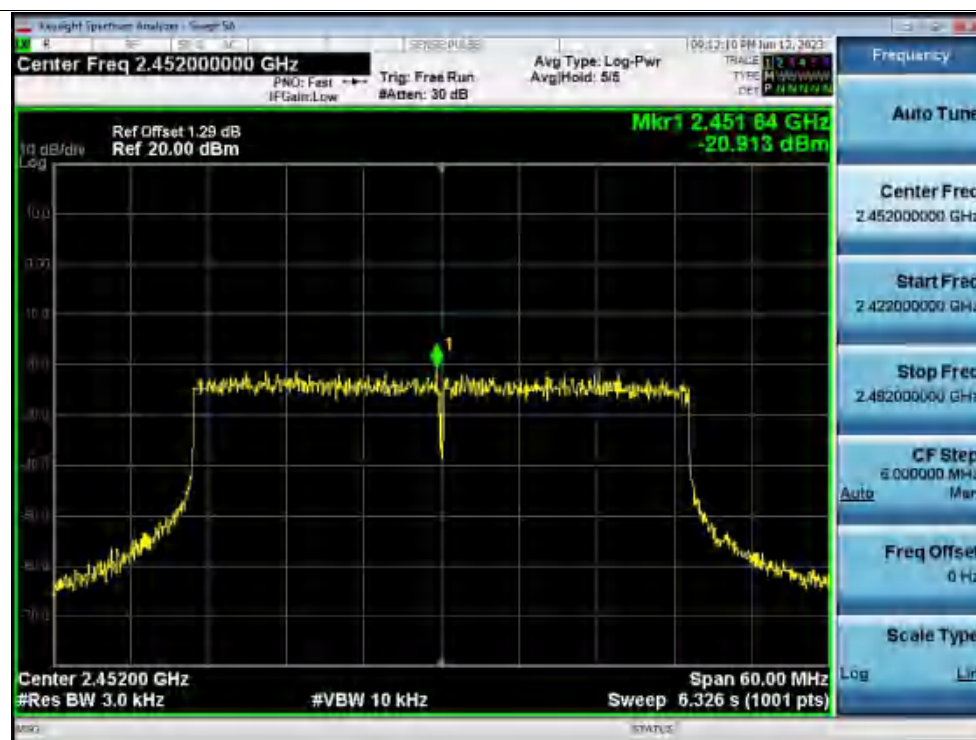
PSD NVNT ax40 2422MHz Ant1



PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1



7.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.31	-20	Pass
NVNT	b	2462	Ant1	-60.46	-20	Pass
NVNT	g	2412	Ant1	-28.57	-20	Pass
NVNT	g	2462	Ant1	-46.46	-20	Pass
NVNT	n20	2412	Ant1	-29.12	-20	Pass
NVNT	n20	2462	Ant1	-44.66	-20	Pass
NVNT	n40	2422	Ant1	-27.61	-20	Pass
NVNT	n40	2452	Ant1	-40.47	-20	Pass
NVNT	ax20	2412	Ant1	-29	-20	Pass
NVNT	ax20	2462	Ant1	-45.83	-20	Pass
NVNT	ax40	2422	Ant1	-29.64	-20	Pass
NVNT	ax40	2452	Ant1	-39.49	-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 2412MHz Ant1 Ref

Band Edge NVNT g 2462MHz Ant1 Ref



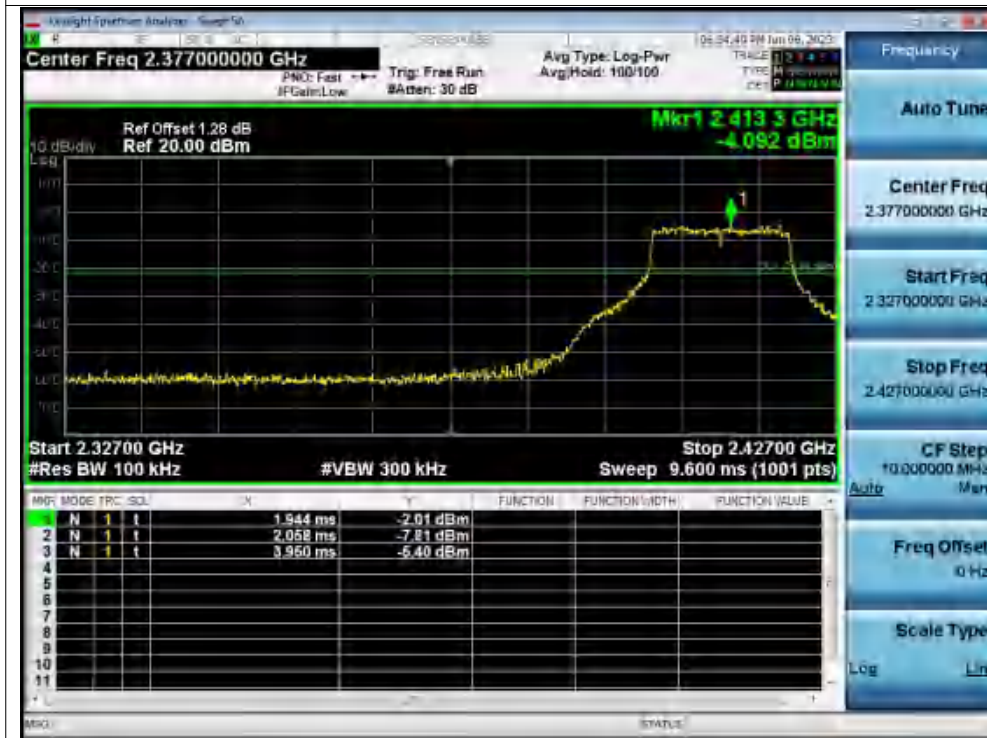
Band Edge NVNT g 2462MHz Ant1 Emission



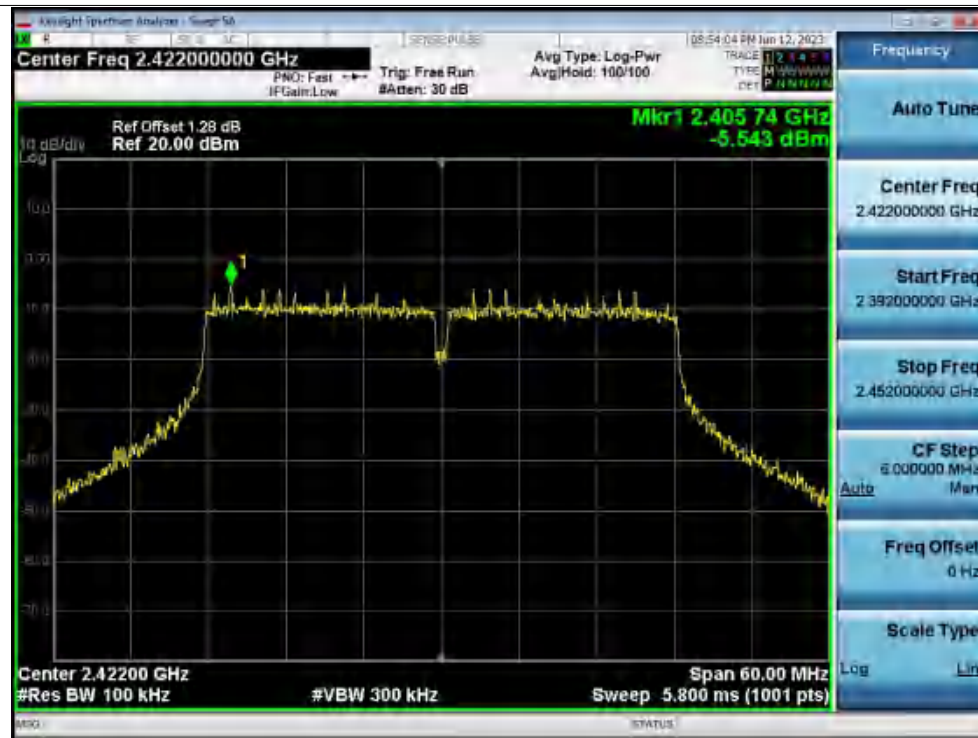
Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



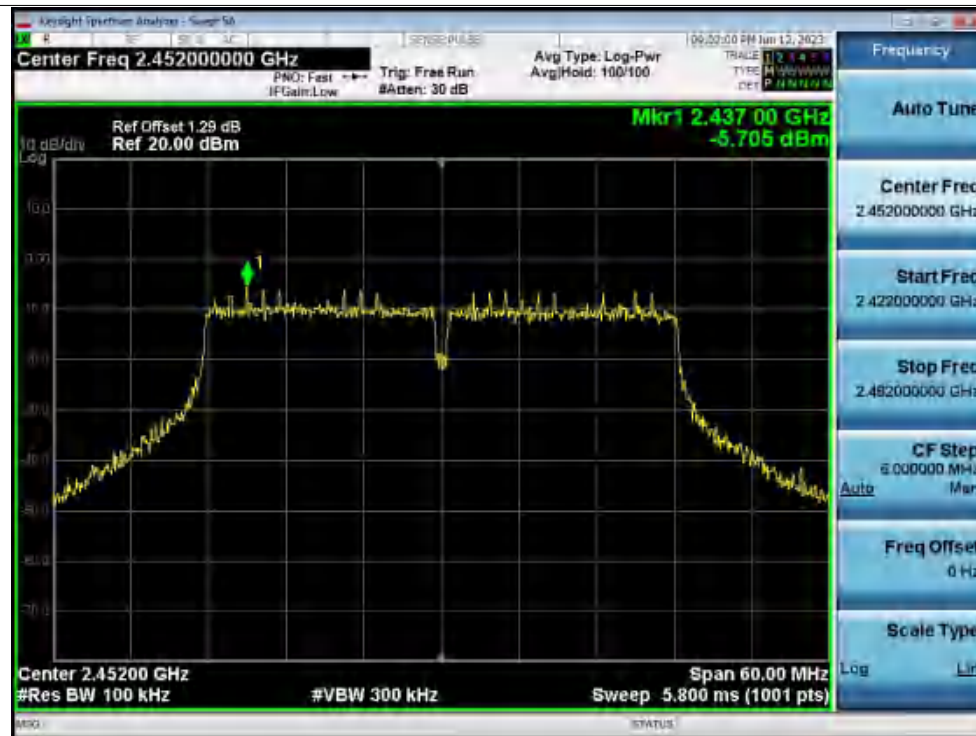
Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



Band Edge NVNT ax20 2412MHz Ant1 Ref



Band Edge NVNT ax20 2412MHz Ant1 Emission



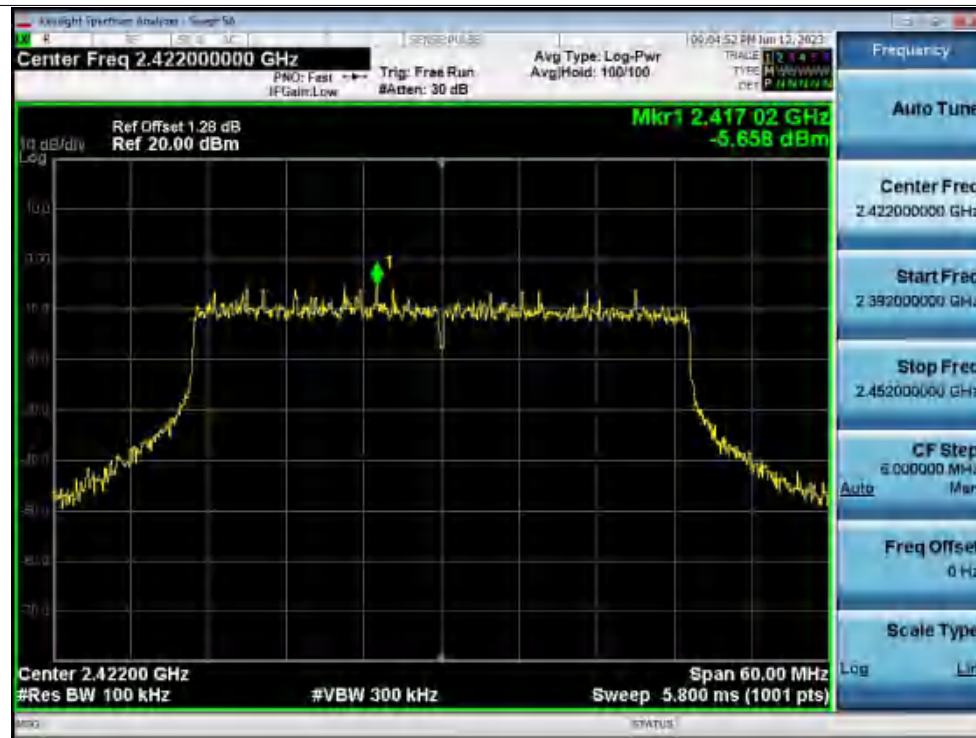
Band Edge NVNT ax20 2462MHz Ant1 Ref



Band Edge NVNT ax20 2462MHz Ant1 Emission



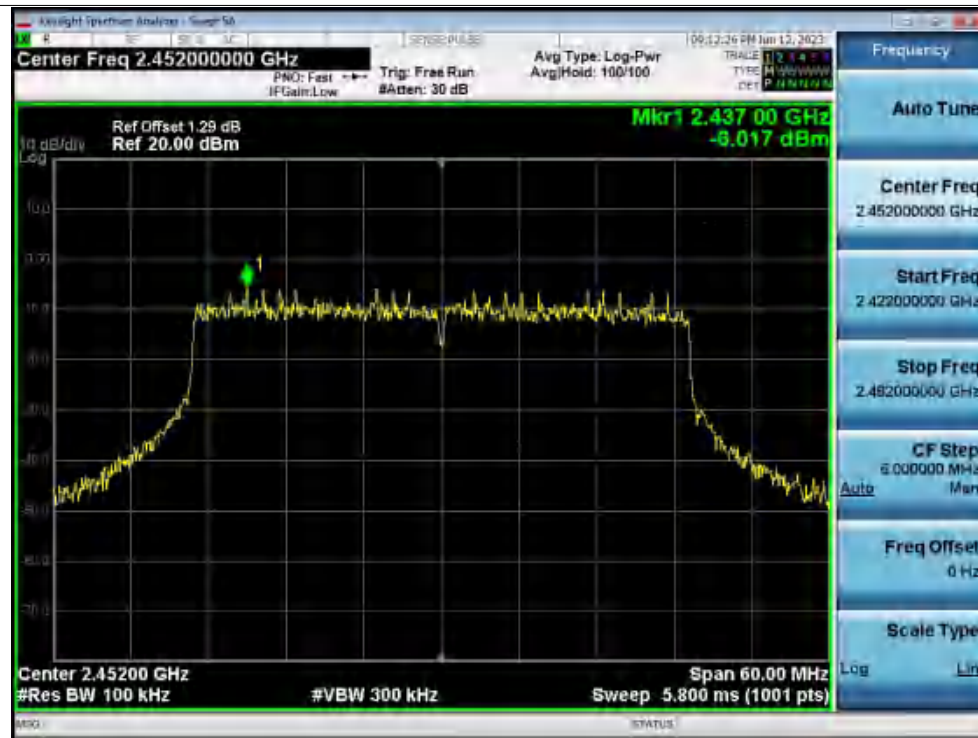
Band Edge NVNT ax40 2422MHz Ant1 Ref



Band Edge NVNT ax40 2422MHz Ant1 Emission



Band Edge NVNT ax40 2452MHz Ant1 Ref



Band Edge NVNT ax40 2452MHz Ant1 Emission



Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.77	-20	Pass
NVNT	b	2437	Ant1	-44.56	-20	Pass
NVNT	b	2462	Ant1	-45.3	-20	Pass
NVNT	g	2412	Ant1	-39.93	-20	Pass
NVNT	g	2437	Ant1	-39.42	-20	Pass
NVNT	g	2462	Ant1	-38.25	-20	Pass
NVNT	n20	2412	Ant1	-39.83	-20	Pass
NVNT	n20	2437	Ant1	-38.81	-20	Pass
NVNT	n20	2462	Ant1	-38.57	-20	Pass
NVNT	n40	2422	Ant1	-37.21	-20	Pass
NVNT	n40	2437	Ant1	-36.63	-20	Pass
NVNT	n40	2452	Ant1	-35.72	-20	Pass
NVNT	ax20	2412	Ant1	-40.04	-20	Pass
NVNT	ax20	2437	Ant1	-38.47	-20	Pass
NVNT	ax20	2462	Ant1	-38.56	-20	Pass
NVNT	ax40	2422	Ant1	-36.88	-20	Pass
NVNT	ax40	2437	Ant1	-35.95	-20	Pass
NVNT	ax40	2452	Ant1	-36.51	-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



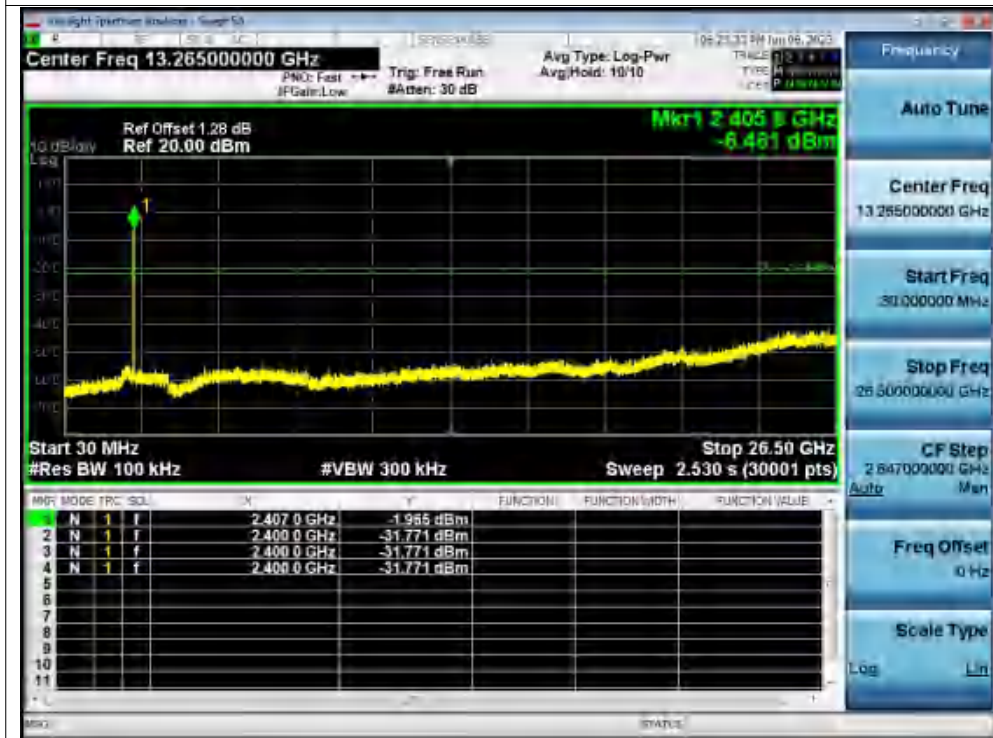
Tx. Spurious NVNT b 2462MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref



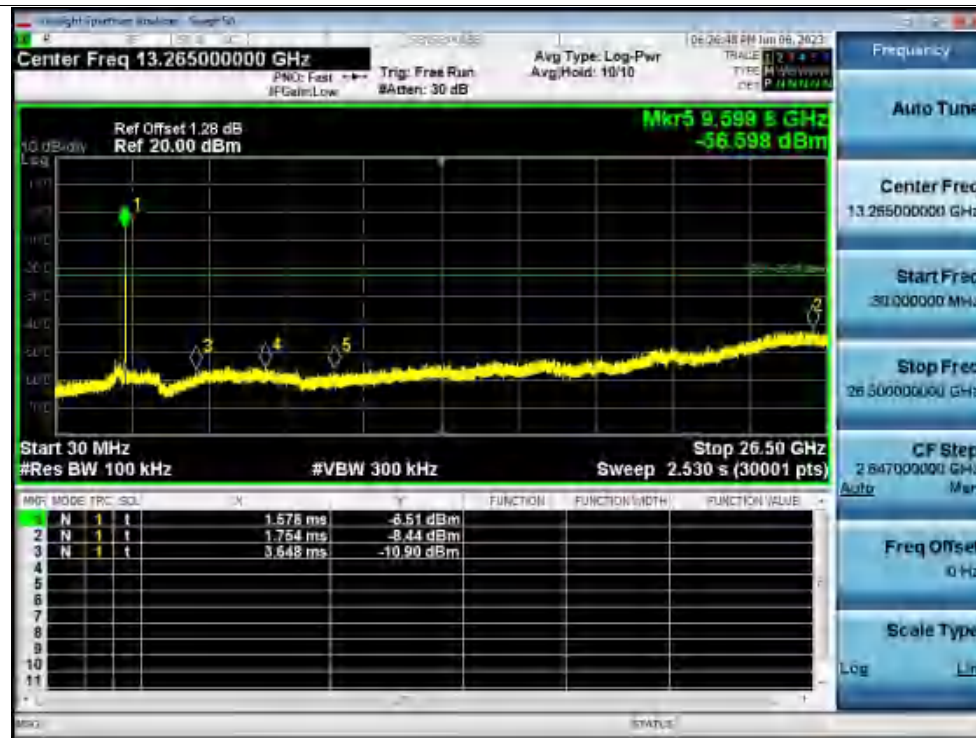
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



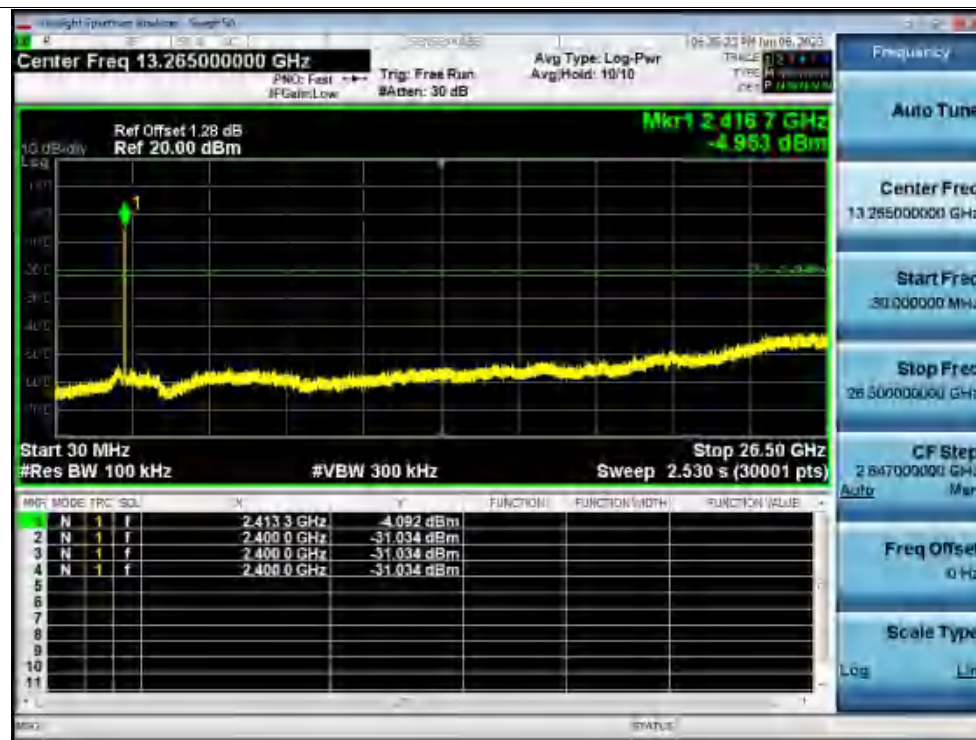
Tx. Spurious NVNT g 2462MHz Ant1 Emission



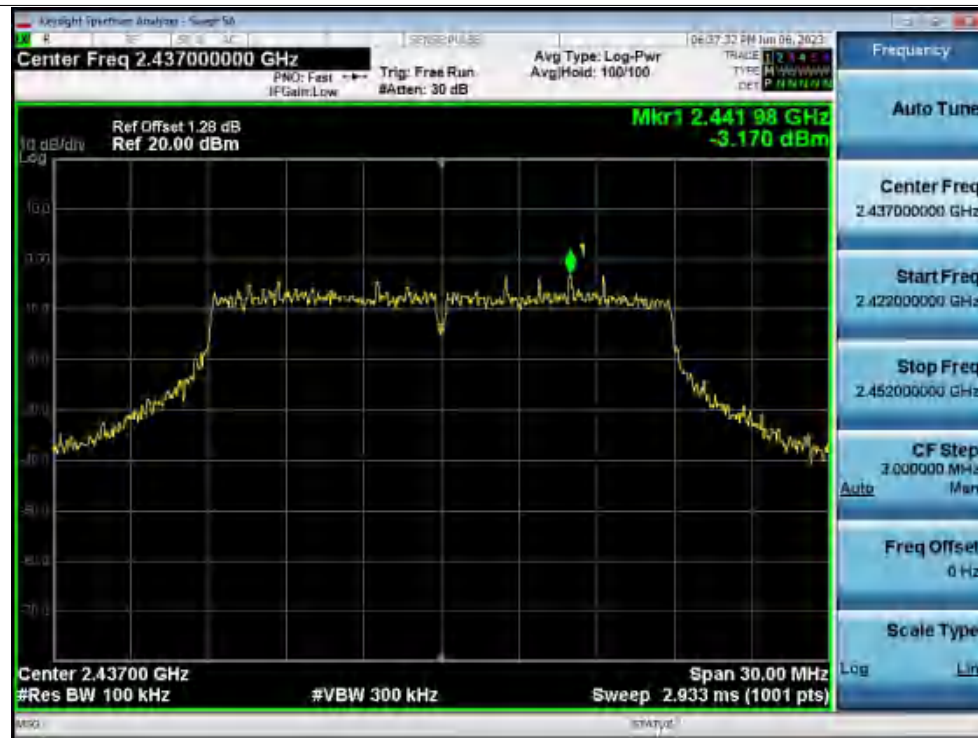
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



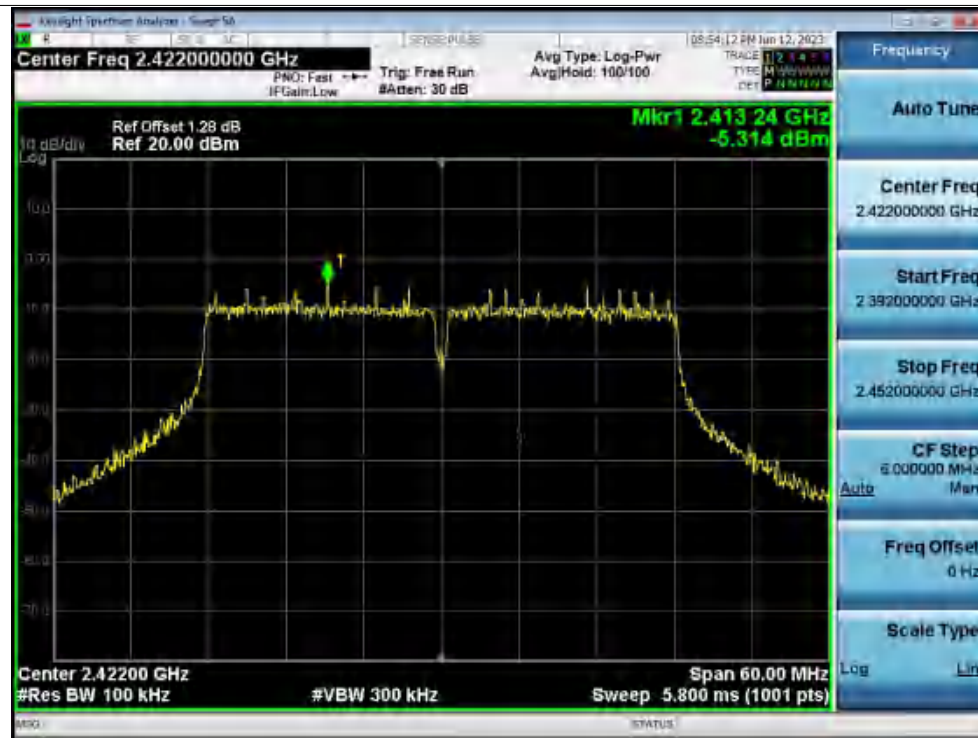
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



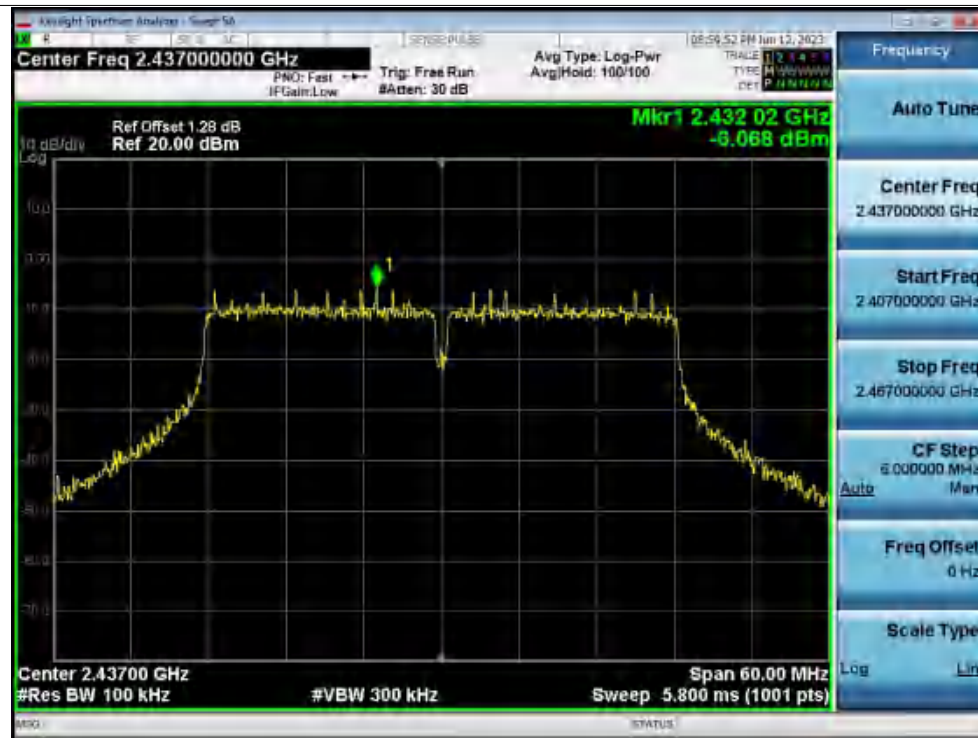
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



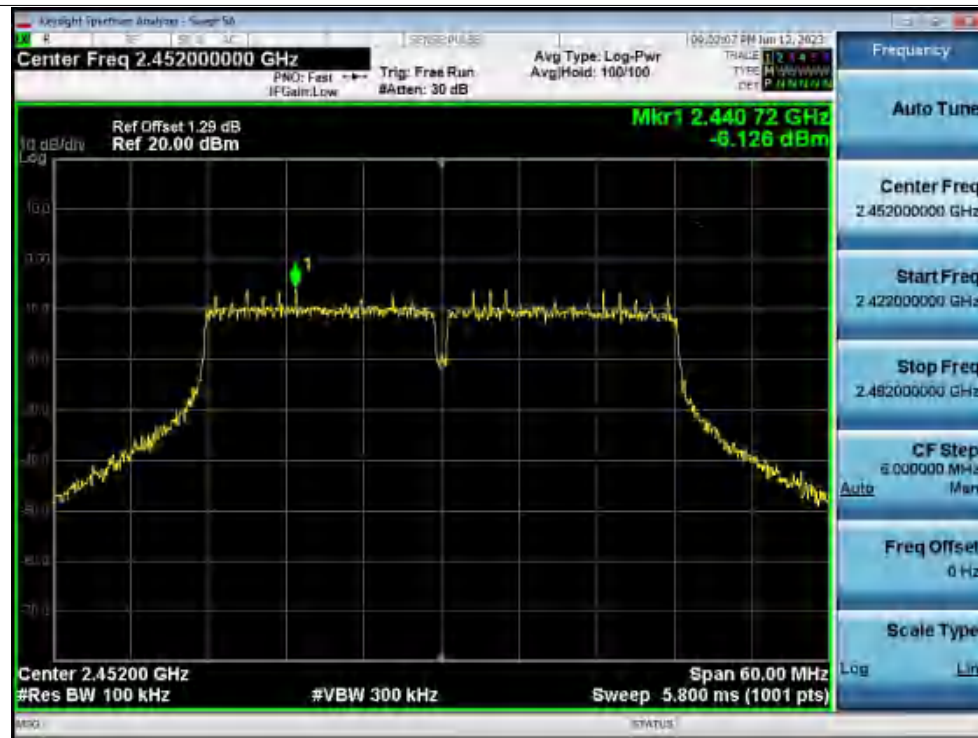
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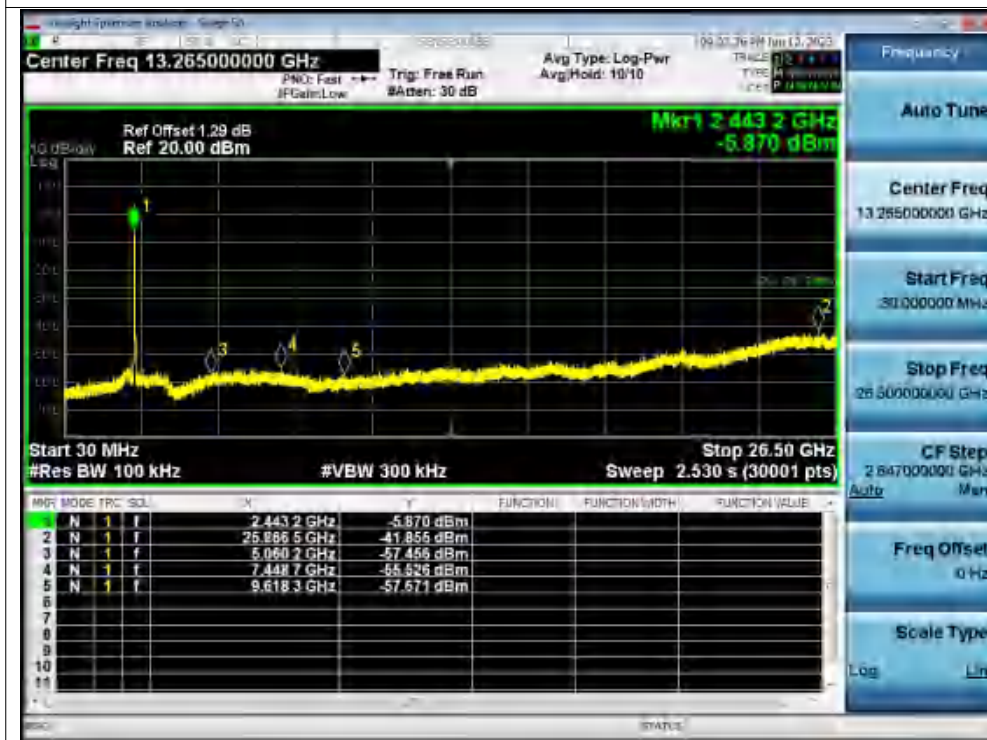
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



Tx. Spurious NVNT ax20 2412MHz Ant1 Emission



Tx. Spurious NVNT ax20 2437MHz Ant1 Ref

Tx. Spurious NVNT ax20 2462MHz Ant1 Ref

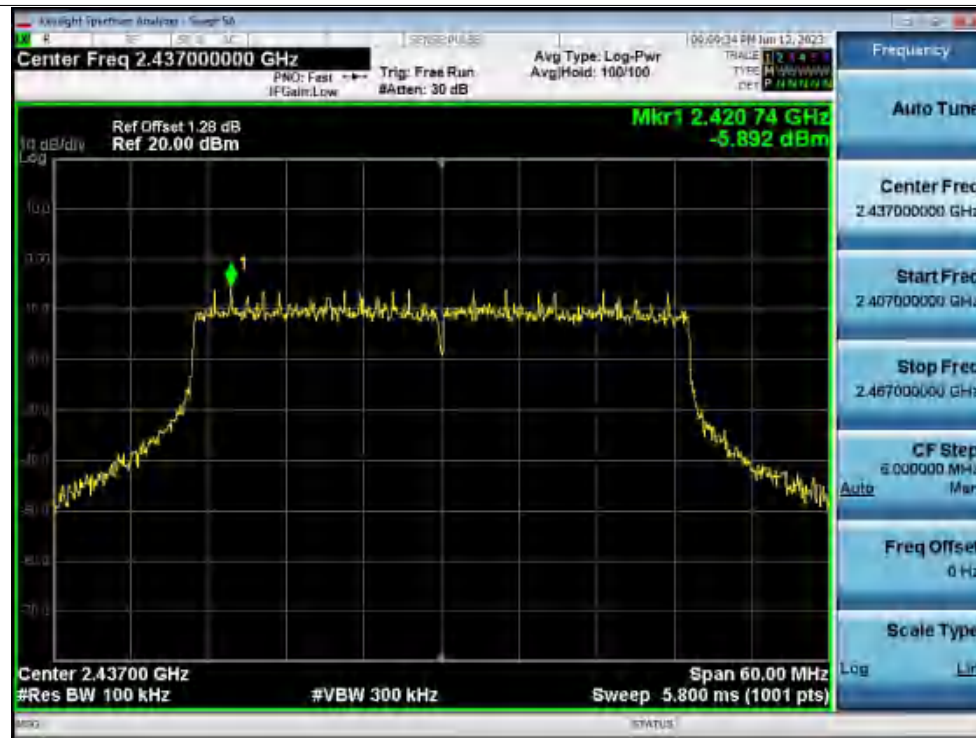
Tx. Spurious NVNT ax40 2422MHz Ant1 Ref



Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



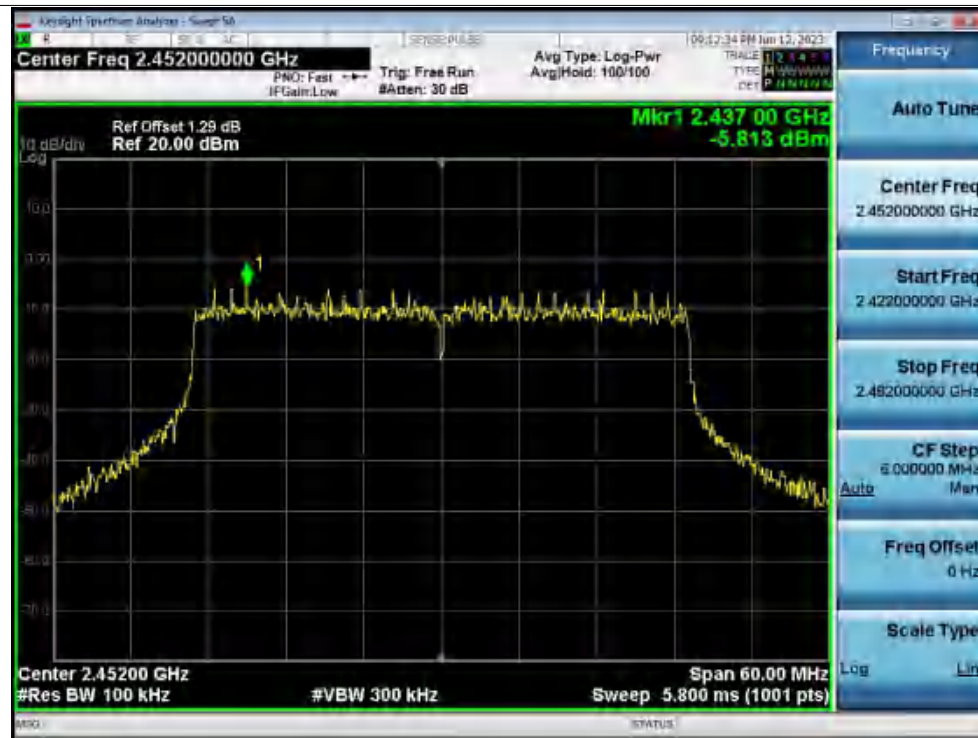
Tx. Spurious NVNT ax40 2437MHz Ant1 Ref



Tx. Spurious NVNT ax40 2437MHz Ant1 Emission



Tx. Spurious NVNT ax40 2452MHz Ant1 Ref



Tx. Spurious NVNT ax40 2452MHz Ant1 Emission



7.5 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.12	0	0.08
NVNT	b	2437	Ant1	98.58	0	0.08
NVNT	b	2462	Ant1	99.63	0	0.08
NVNT	g	2412	Ant1	93.13	0.31	0.49
NVNT	g	2437	Ant1	91.5	0.39	0.53
NVNT	g	2462	Ant1	97.03	0.13	0.53
NVNT	n20	2412	Ant1	94.32	0.25	0.53
NVNT	n20	2437	Ant1	96.93	0.14	0.53
NVNT	n20	2462	Ant1	95.66	0.19	0.53
NVNT	n40	2422	Ant1	94.14	0.26	1.07
NVNT	n40	2437	Ant1	84.12	0.75	1.07
NVNT	n40	2452	Ant1	99.57	0	1.08
NVNT	ax20	2412	Ant1	94.42	0.25	0.69
NVNT	ax20	2437	Ant1	91.23	0.4	0.69
NVNT	ax20	2462	Ant1	96.17	0.17	0.69
NVNT	ax40	2422	Ant1	80.95	0.92	1.34
NVNT	ax40	2437	Ant1	90.56	0.43	1.34
NVNT	ax40	2452	Ant1	94.92	0.23	1.34