

Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

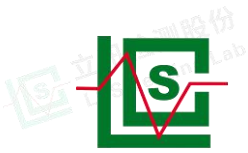
Product Name: LED Down Light

Test Model: US-GL6A-1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling.zhu
Supervised by:	Libin





B.1 6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	6 dB Bandwidth (MHz)	Limit 6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.085	0.5	Pass
NVNT	b	2437	Ant1	8.588	0.5	Pass
NVNT	b	2462	Ant1	9.512	0.5	Pass
NVNT	g	2412	Ant1	15.404	0.5	Pass
NVNT	g	2437	Ant1	15.234	0.5	Pass
NVNT	g	2462	Ant1	14.375	0.5	Pass
NVNT	n20	2412	Ant1	15.007	0.5	Pass
NVNT	n20	2437	Ant1	14.995	0.5	Pass
NVNT	n20	2462	Ant1	15.996	0.5	Pass



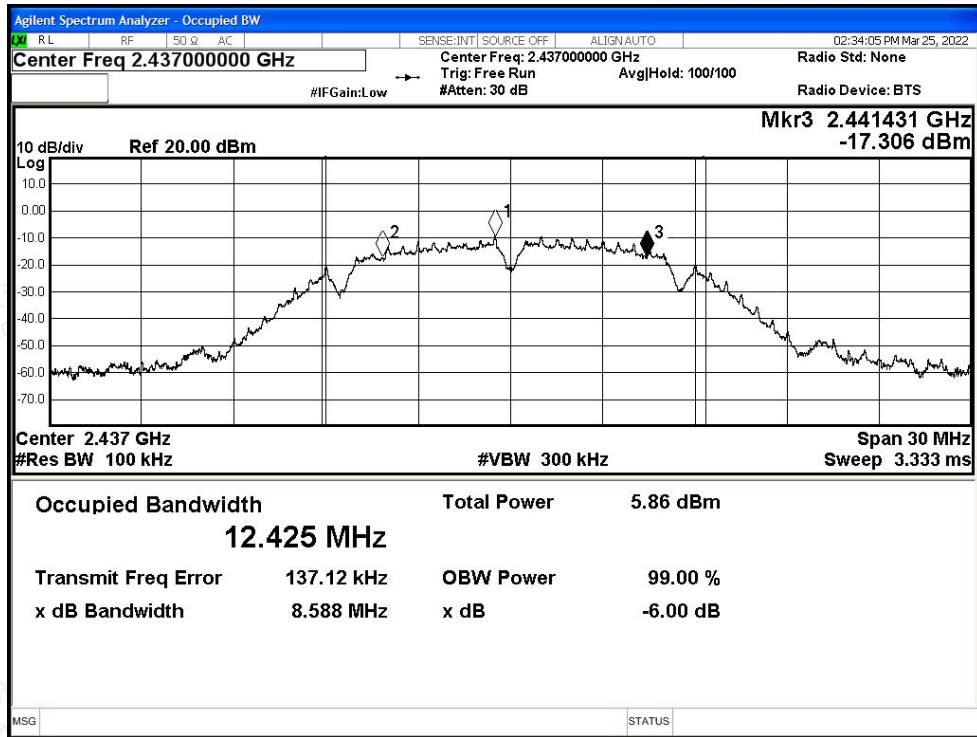


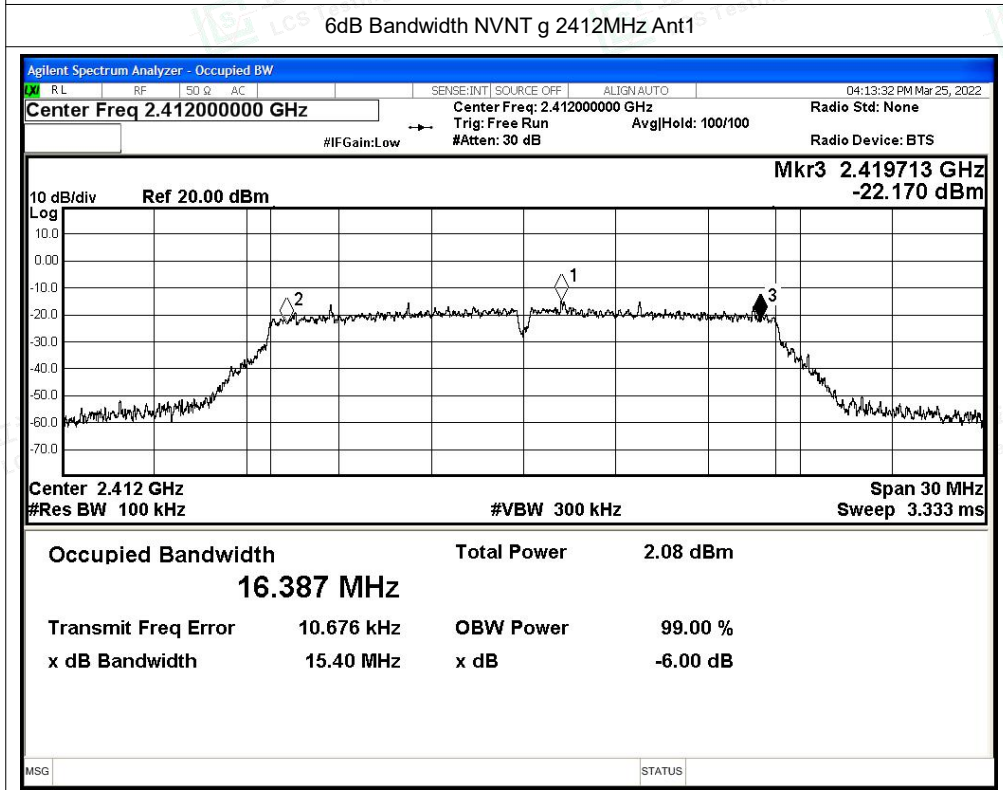
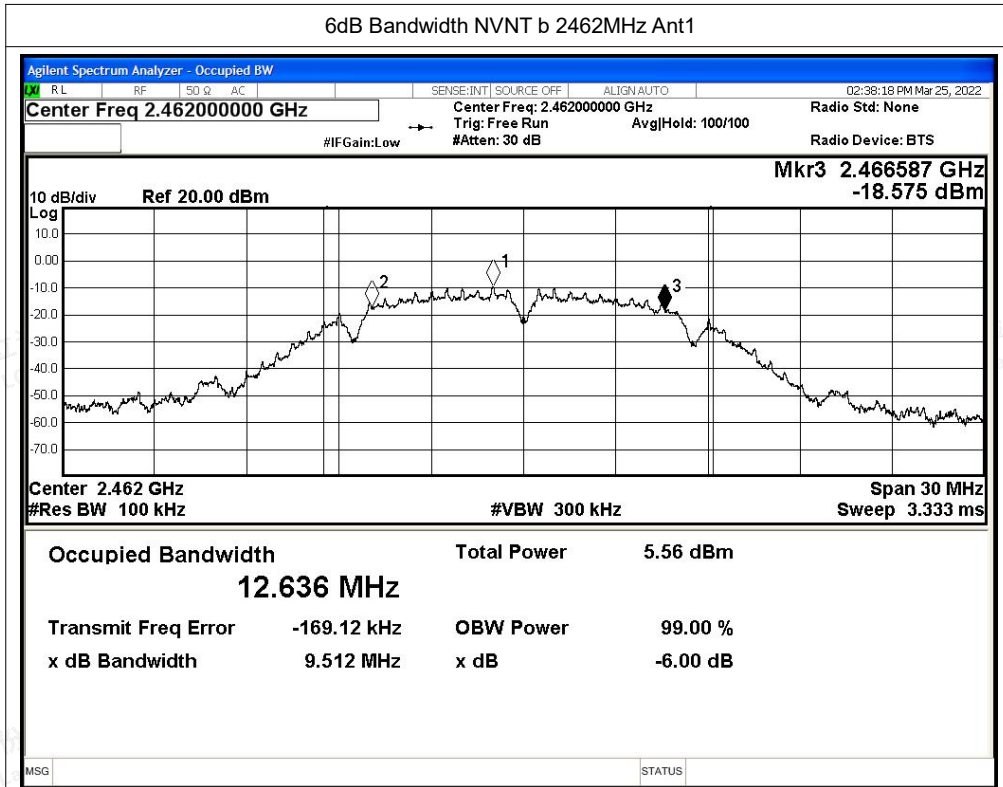
Test Graphs

6dB Bandwidth NVNT b 2412MHz Ant1



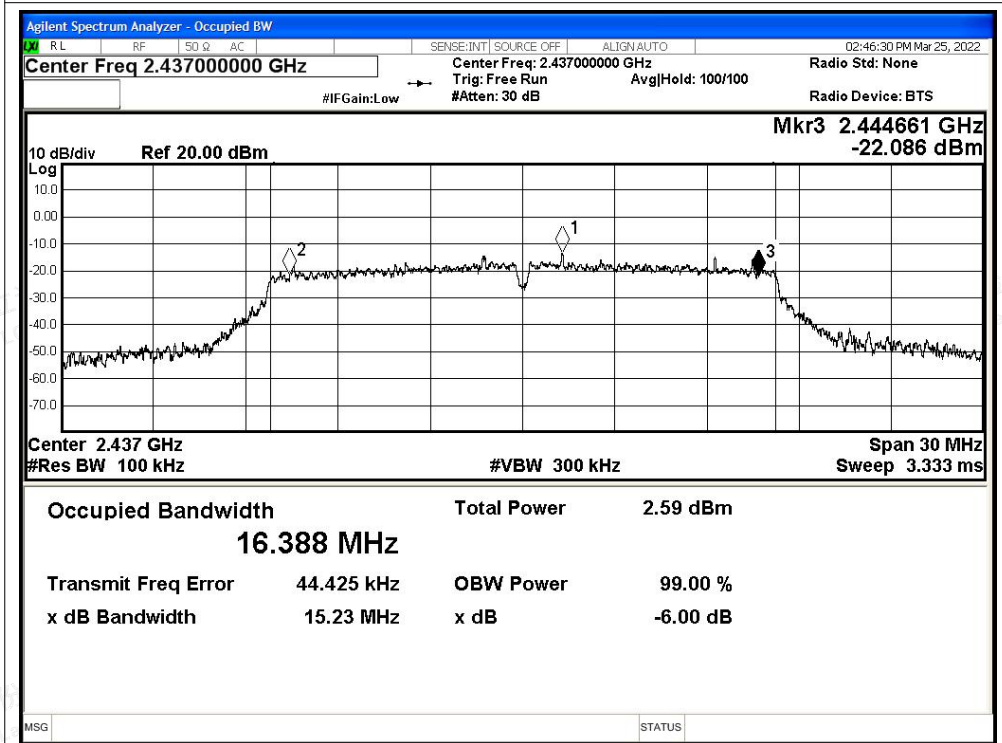
6dB Bandwidth NVNT b 2437MHz Ant1



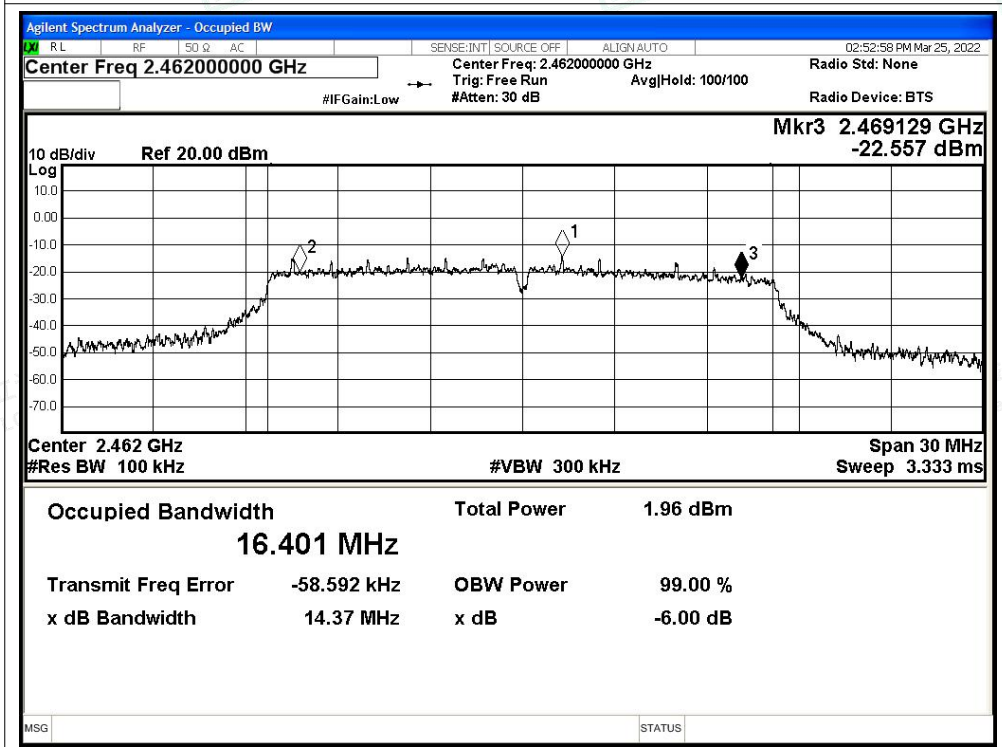


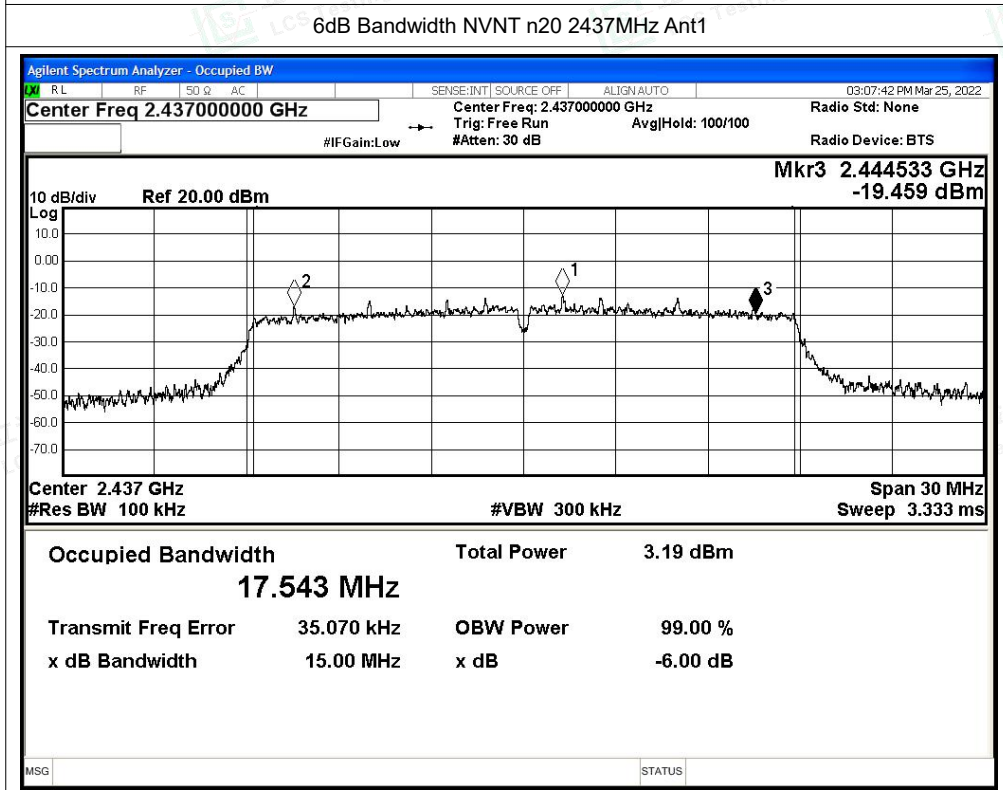
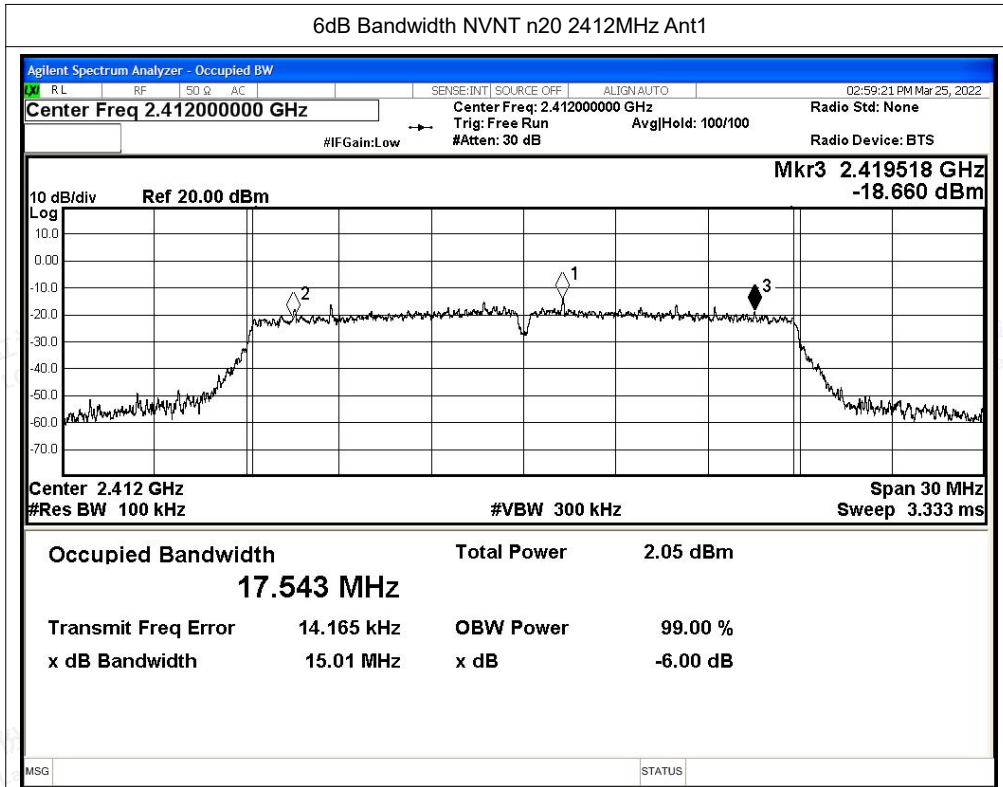


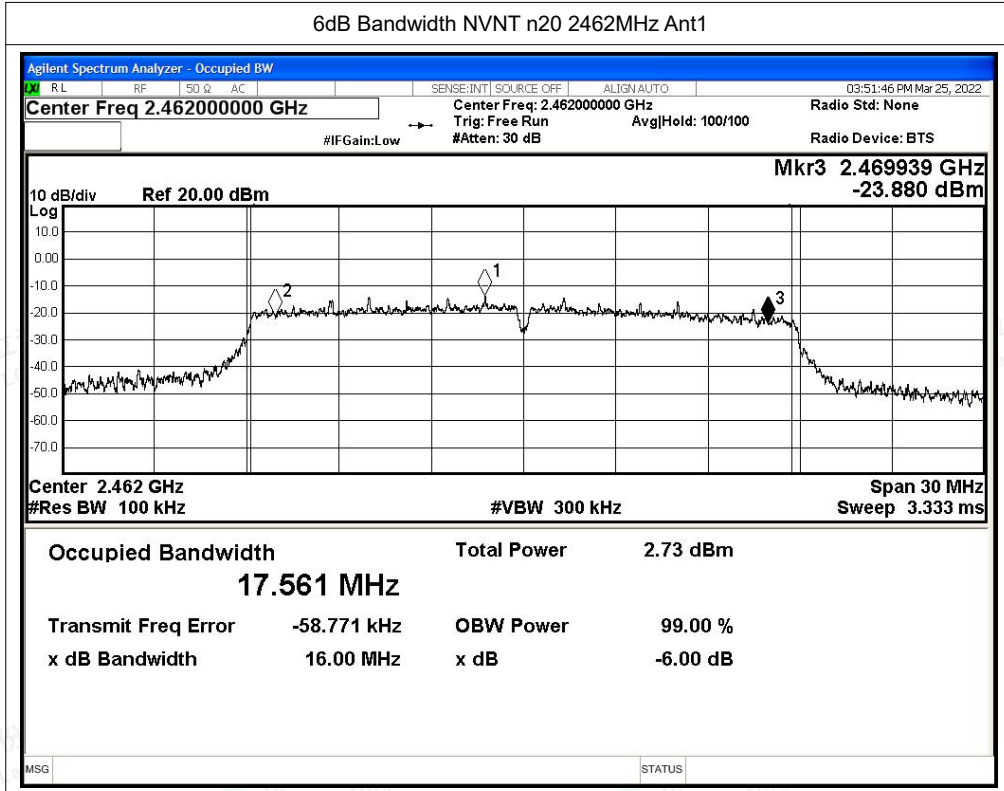
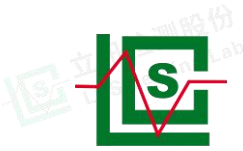
6dB Bandwidth NVNT g 2437MHz Ant1

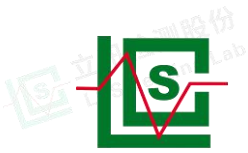


6dB Bandwidth NVNT g 2462MHz Ant1





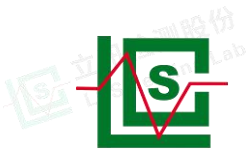




B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	0.91	0	0.91	30	Pass
NVNT	b	2437	Ant1	0.76	0	0.76	30	Pass
NVNT	b	2462	Ant1	0.58	0	0.58	30	Pass
NVNT	g	2412	Ant1	0.82	0	0.82	30	Pass
NVNT	g	2437	Ant1	1.21	0	1.21	30	Pass
NVNT	g	2462	Ant1	0.44	0	0.44	30	Pass
NVNT	n20	2412	Ant1	0.73	0	0.73	30	Pass
NVNT	n20	2437	Ant1	1.78	0	1.78	30	Pass
NVNT	n20	2462	Ant1	1.33	0	1.33	30	Pass





Test Graphs

B.3 Power Spectral Density

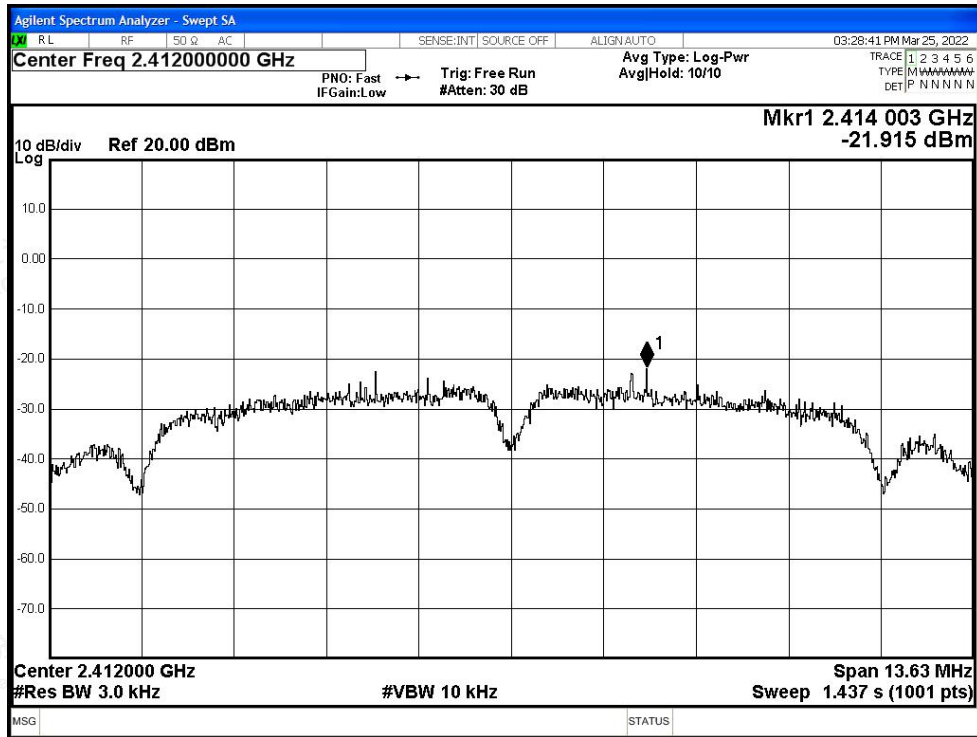
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-21.92	0	-21.92	8	Pass
NVNT	b	2437	Ant1	-20.15	0	-20.15	8	Pass
NVNT	b	2462	Ant1	-24.01	0	-24.01	8	Pass
NVNT	g	2412	Ant1	-27.27	0	-27.27	8	Pass
NVNT	g	2437	Ant1	-26.31	0	-26.31	8	Pass
NVNT	g	2462	Ant1	-27.39	0	-27.39	8	Pass
NVNT	n20	2412	Ant1	-27.01	0	-27.01	8	Pass
NVNT	n20	2437	Ant1	-24.49	0	-24.49	8	Pass
NVNT	n20	2462	Ant1	-27.04	0	-27.04	8	Pass



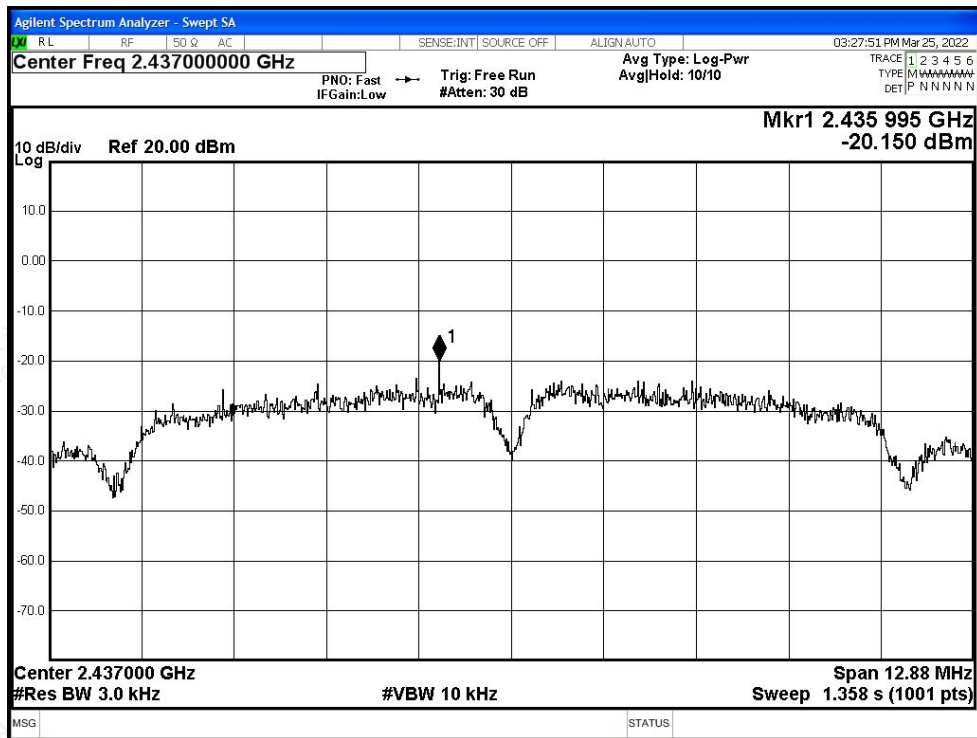


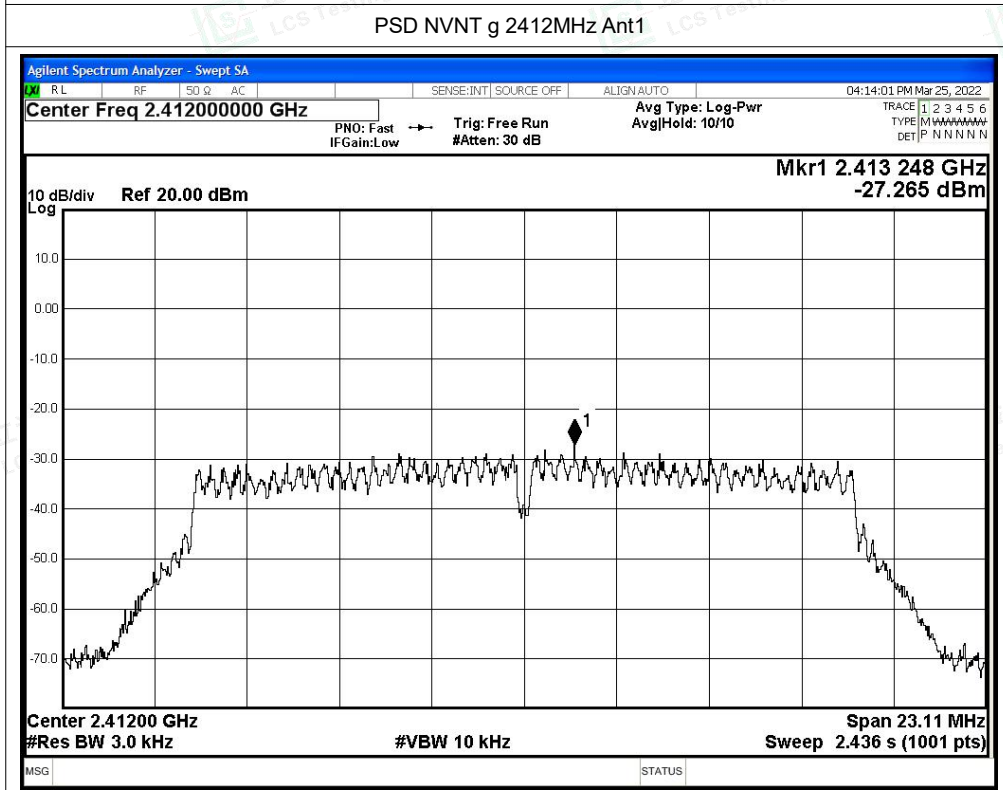
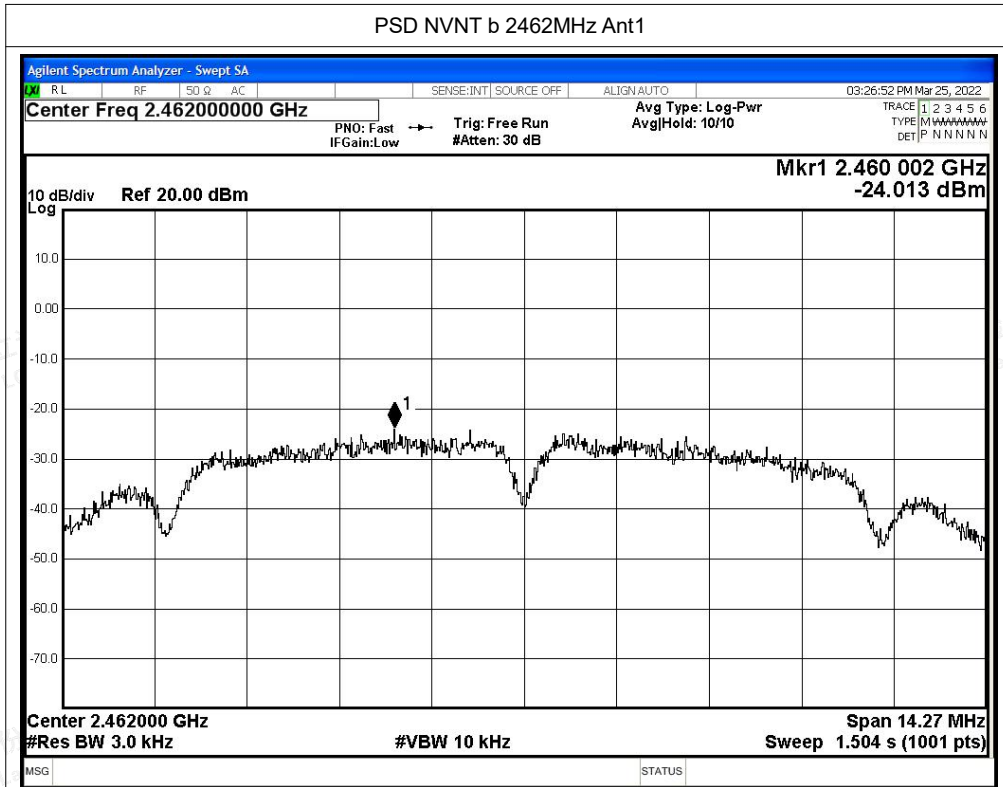
Test Graphs

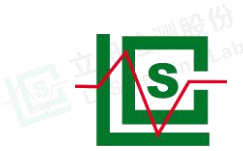
PSD NVNT b 2412MHz Ant1



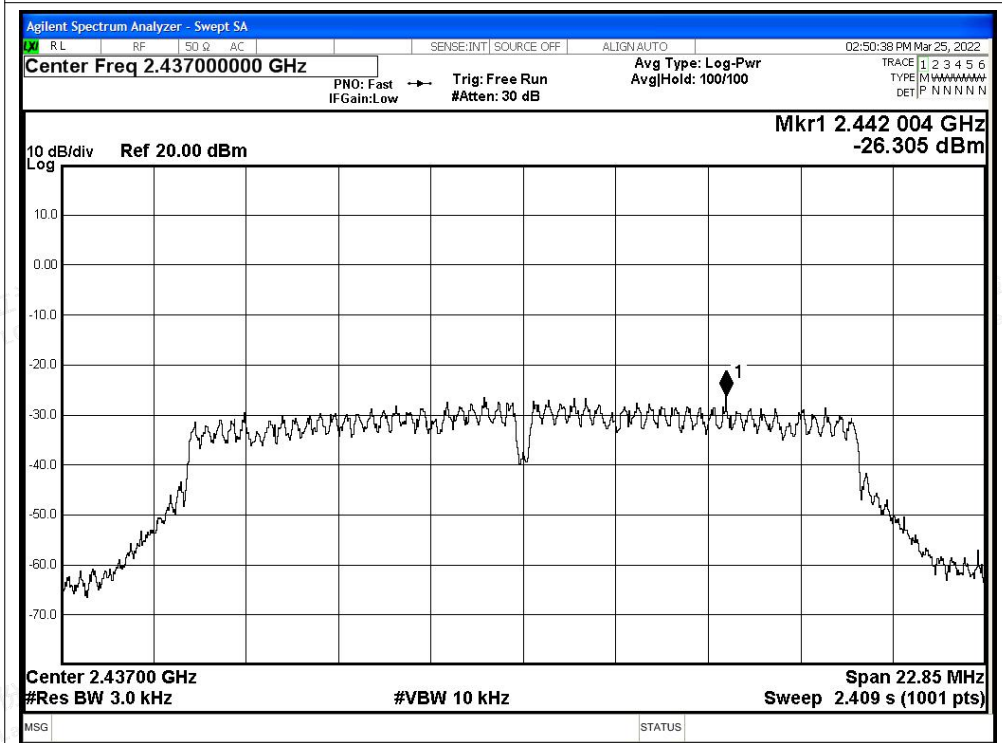
PSD NVNT b 2437MHz Ant1



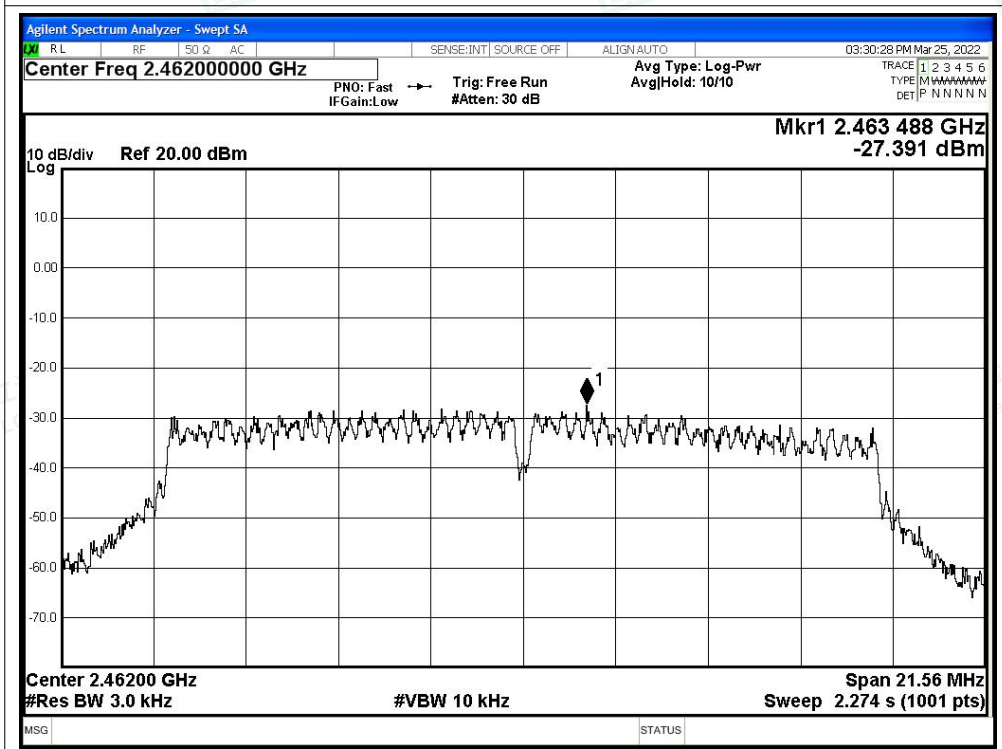


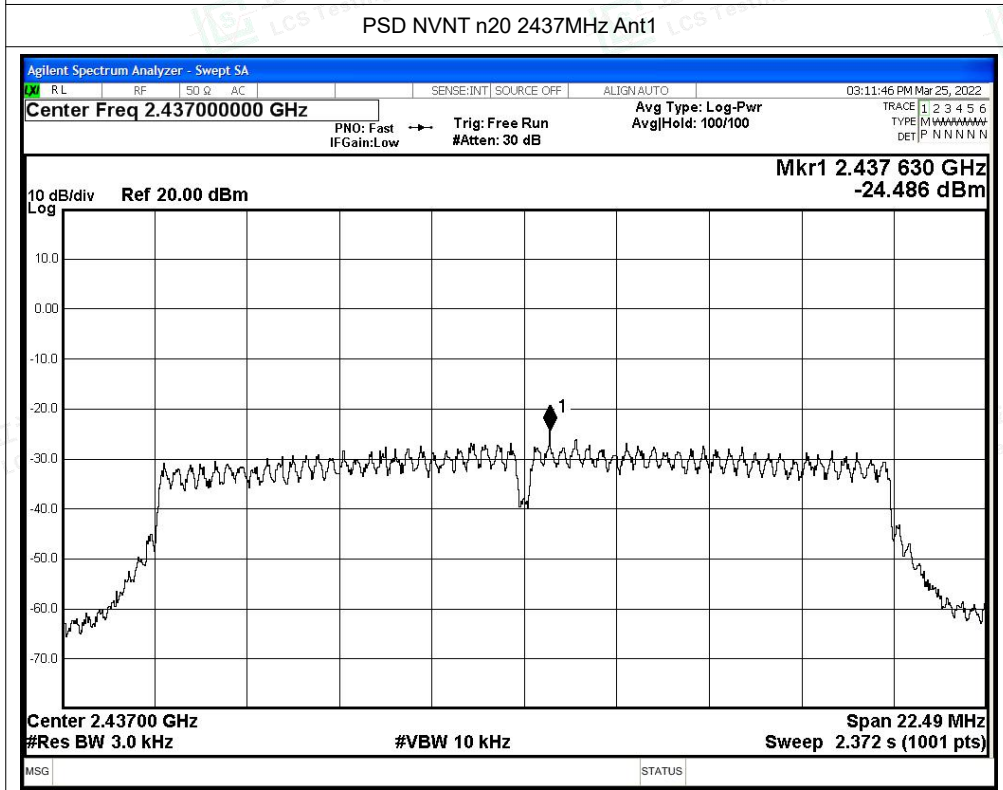
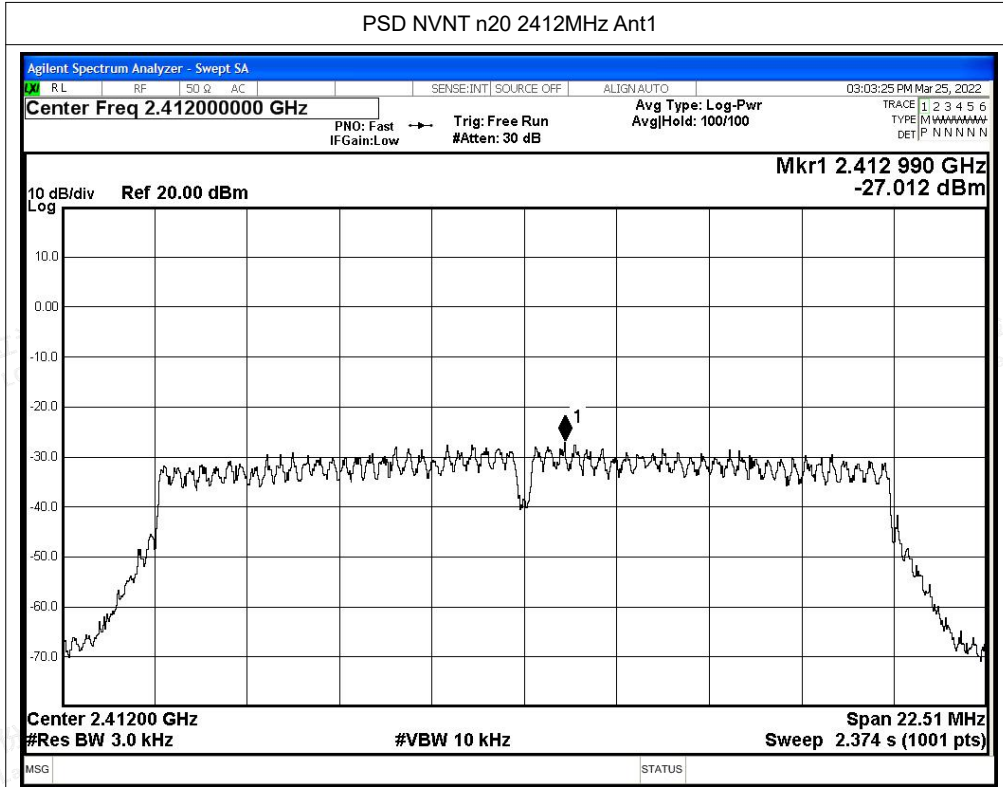


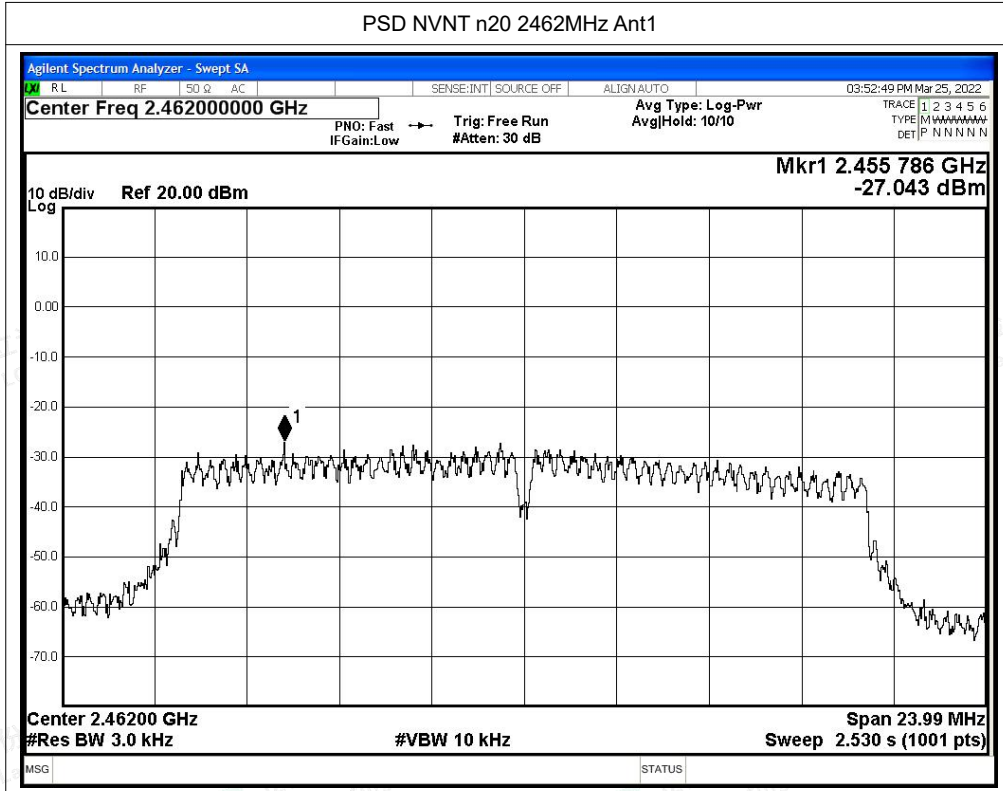
PSD NVNT g 2437MHz Ant1

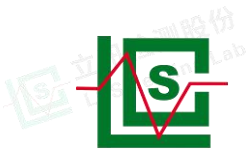


PSD NVNT g 2462MHz Ant1









B.4 Band Edge

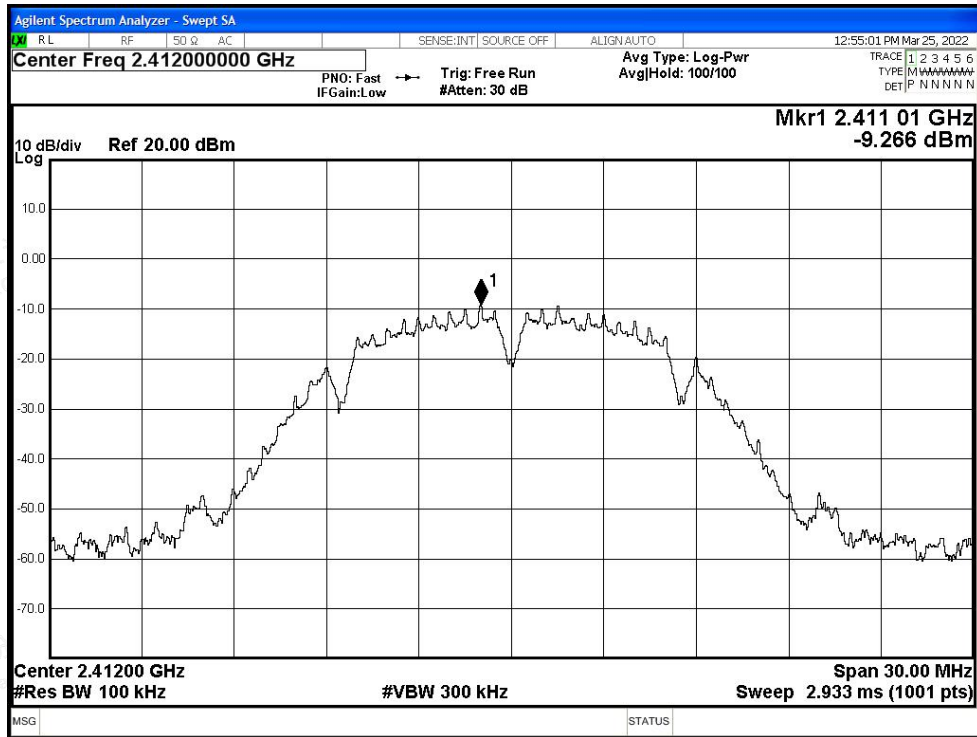
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.16	-20	Pass
NVNT	b	2462	Ant1	-49.09	-20	Pass
NVNT	g	2412	Ant1	-37.76	-20	Pass
NVNT	g	2462	Ant1	-42.32	-20	Pass
NVNT	n20	2412	Ant1	-35.83	-20	Pass
NVNT	n20	2462	Ant1	-41.38	-20	Pass



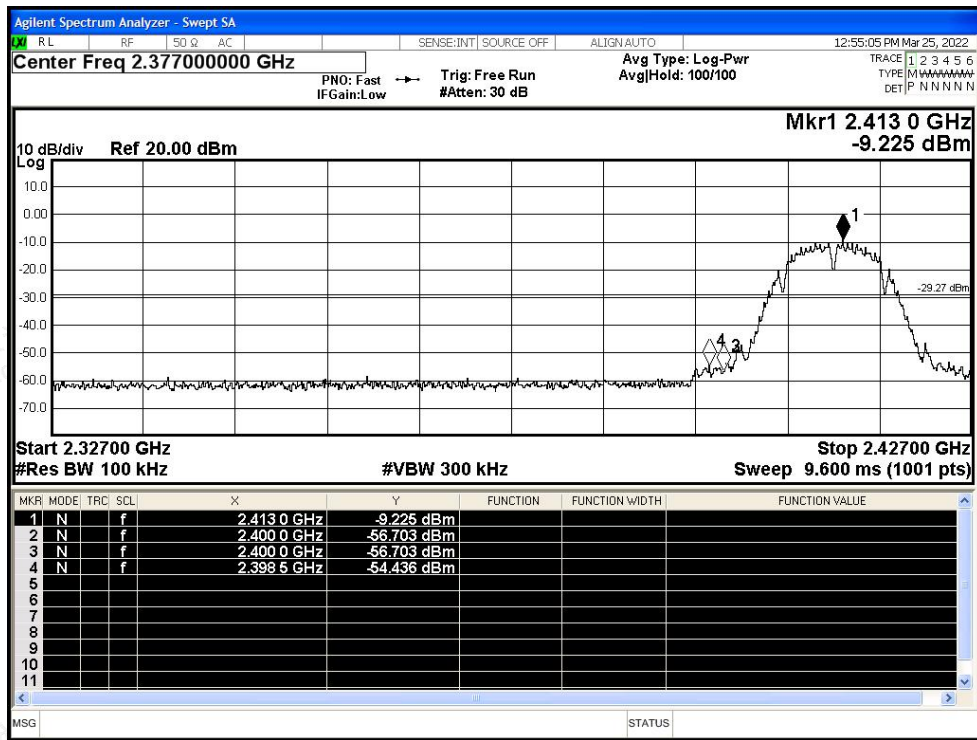


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

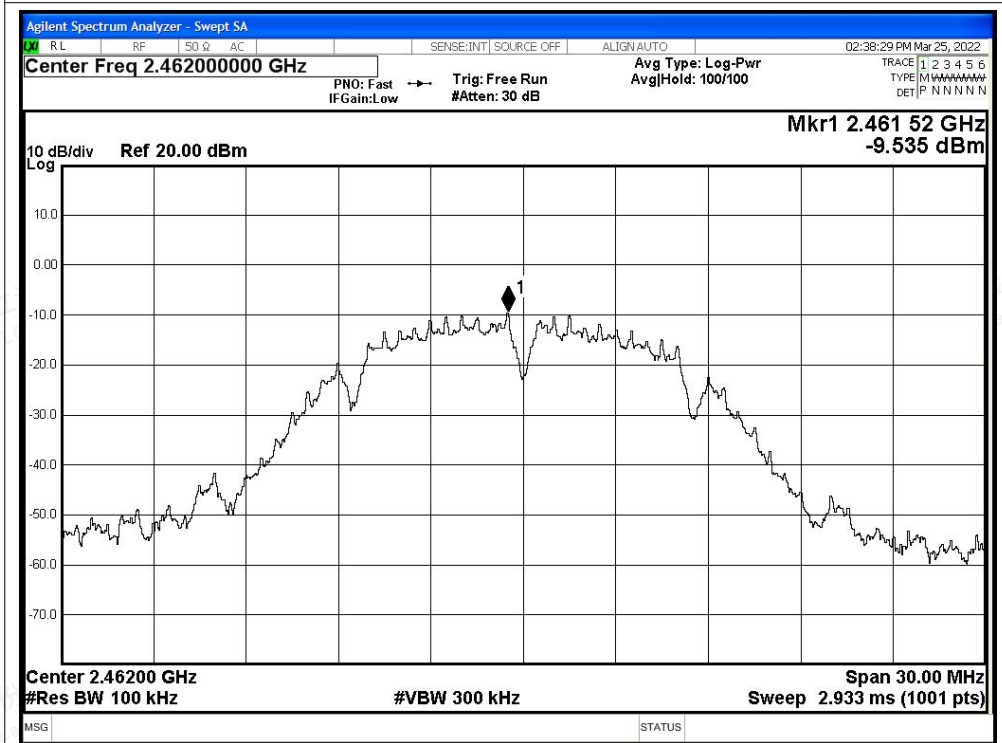


Band Edge NVNT b 2412MHz Ant1 Emission

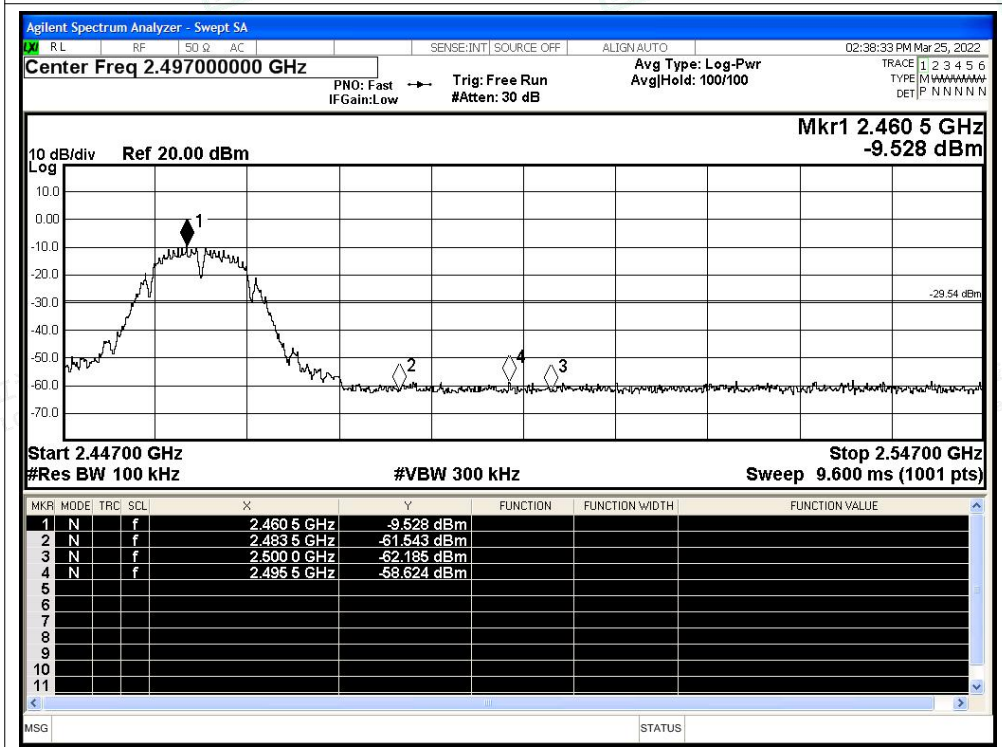


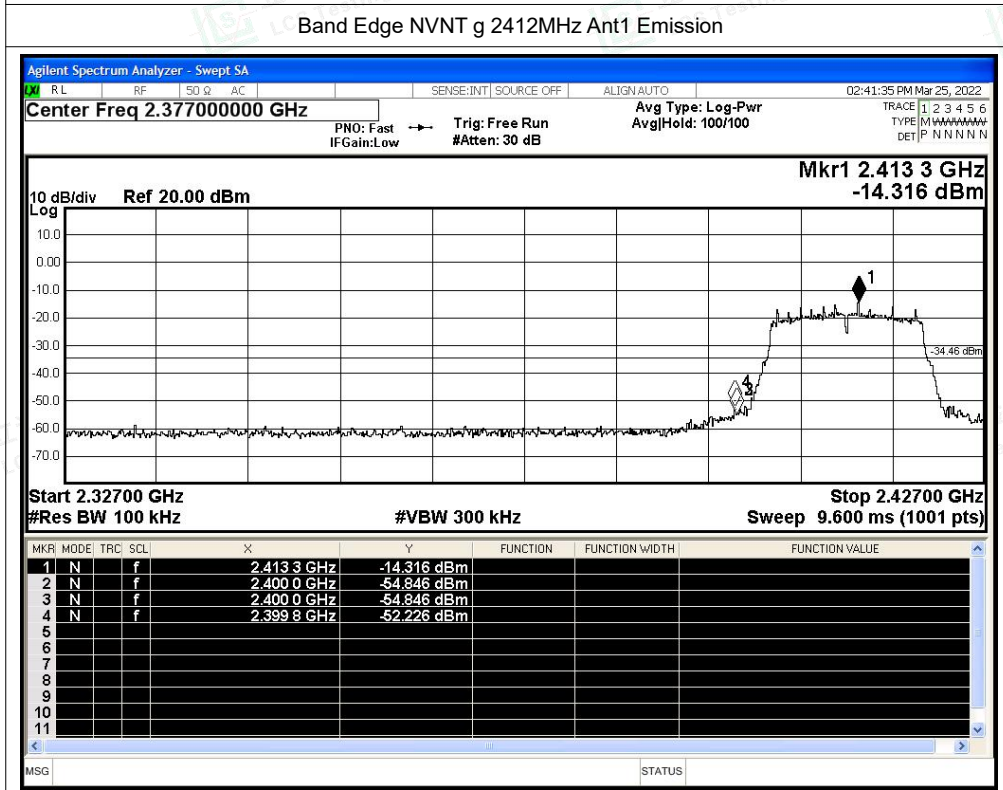
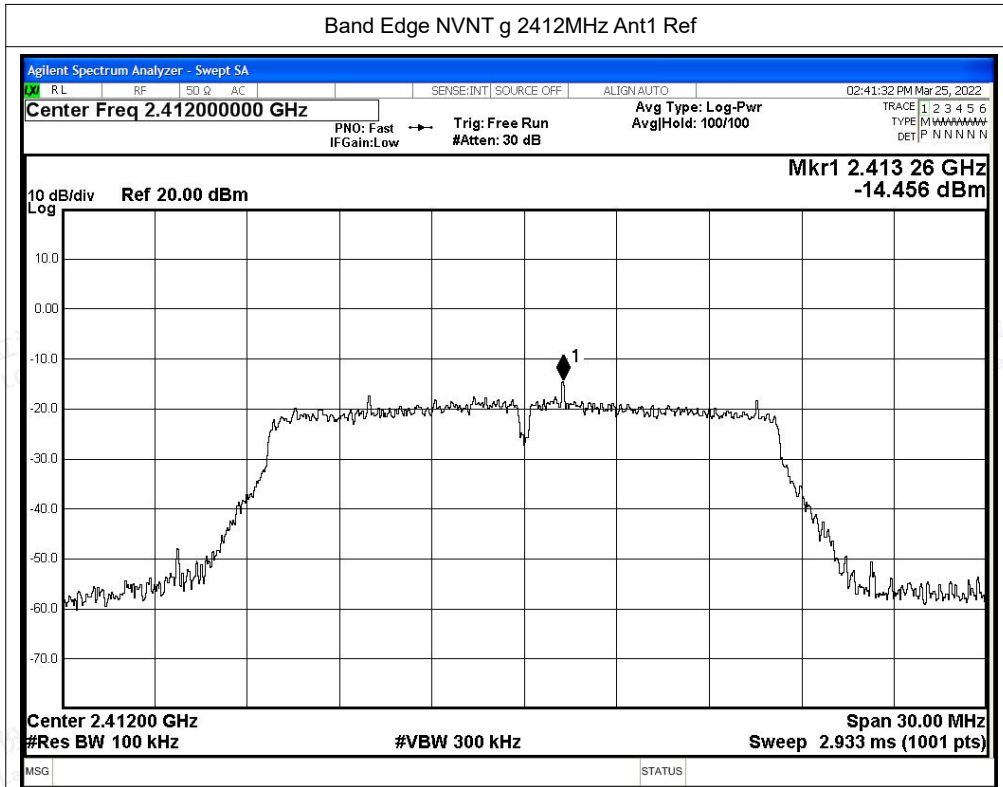


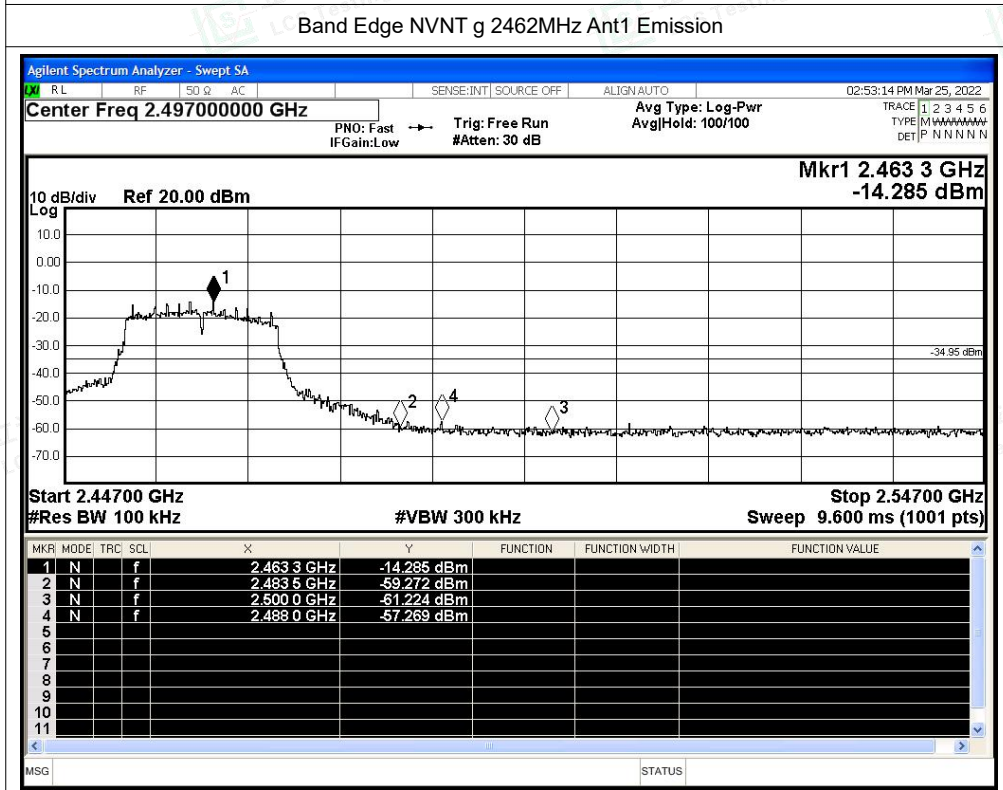
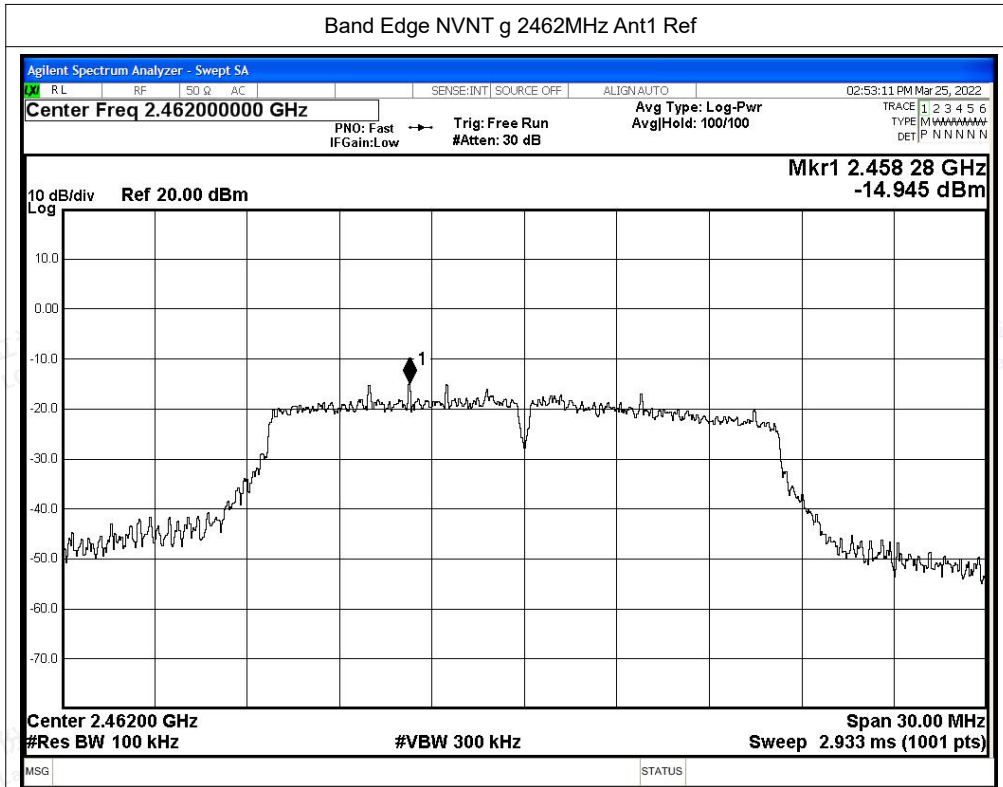
Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

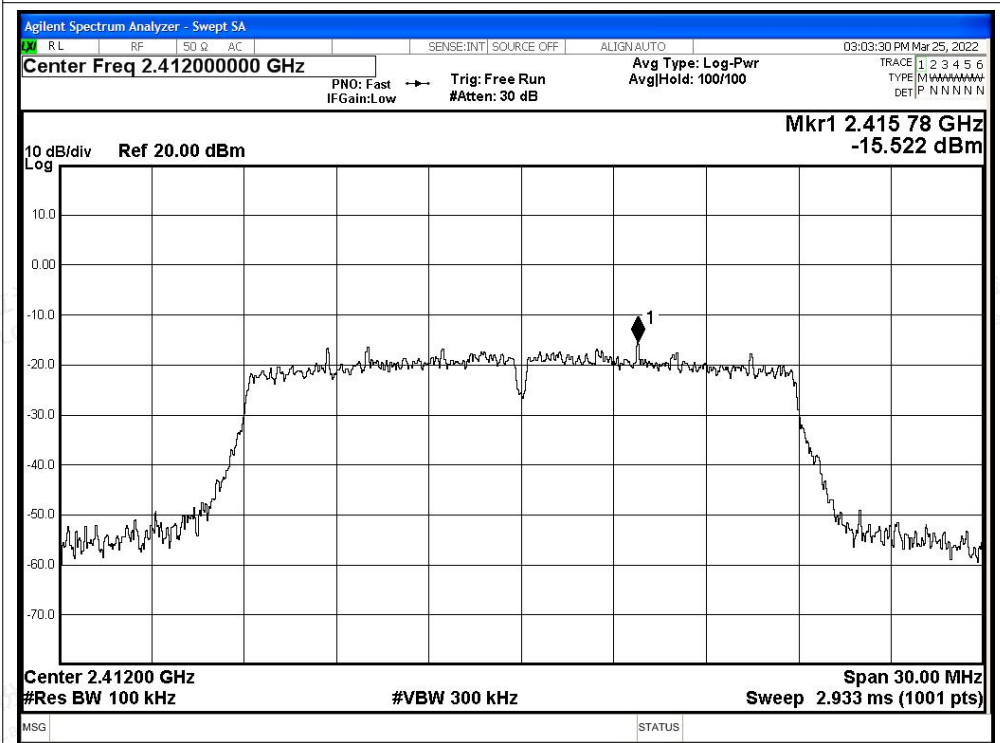




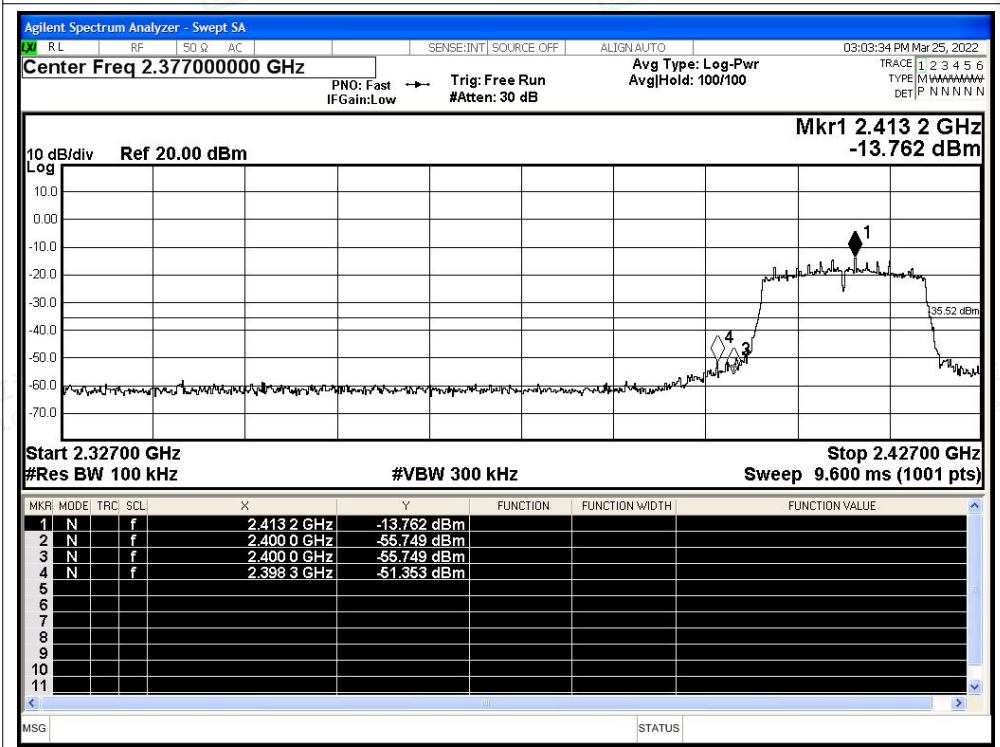


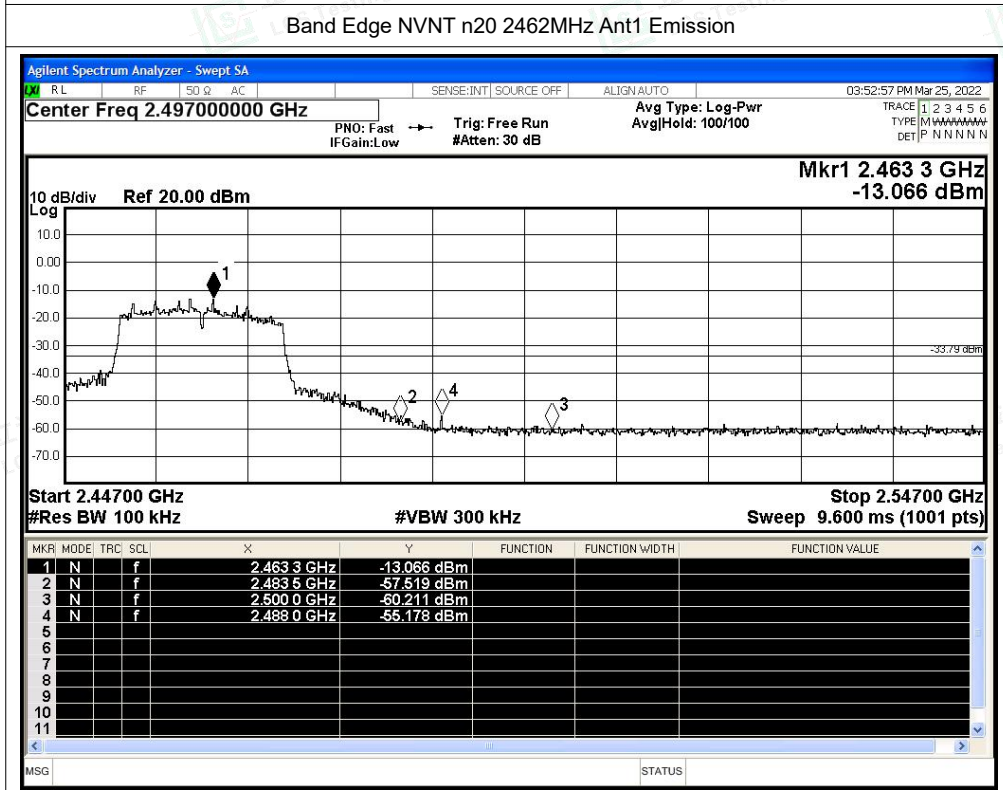
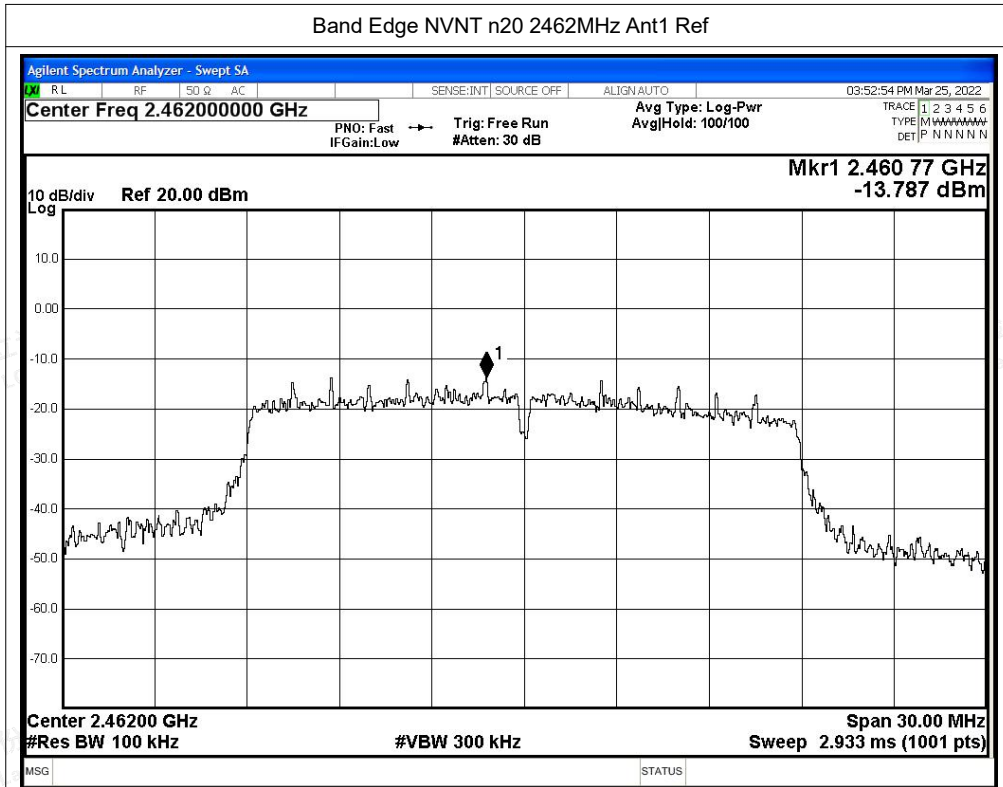


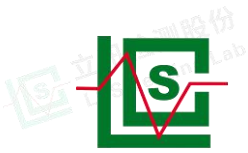
Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission







B.5 Conducted RF Spurious Emission

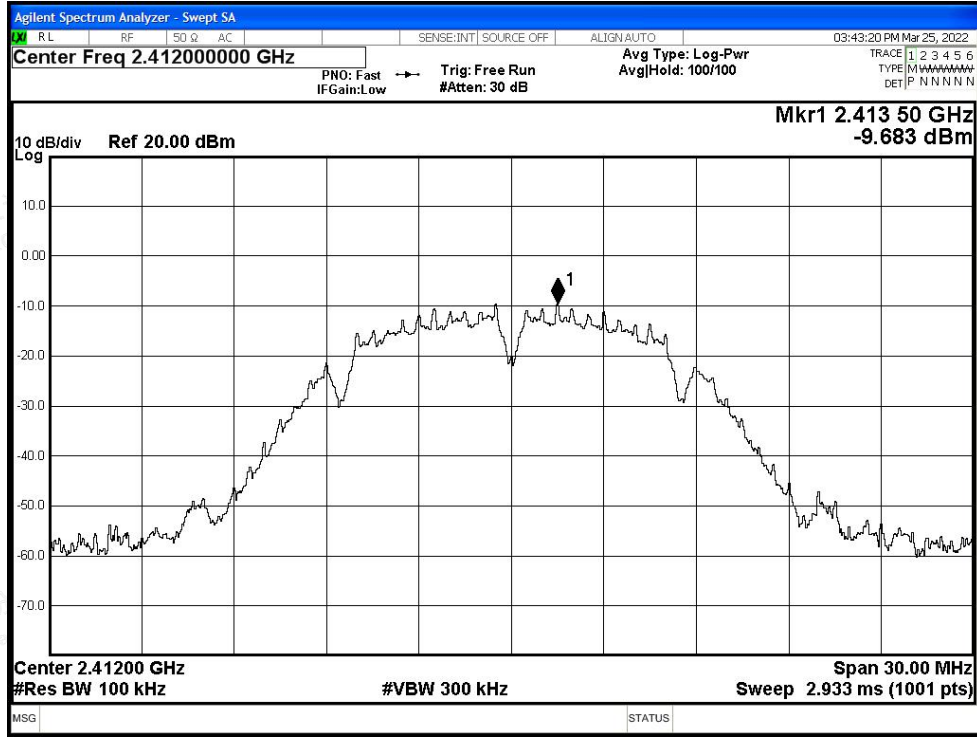
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.59	-20	Pass
NVNT	b	2437	Ant1	-37.76	-20	Pass
NVNT	b	2462	Ant1	-36.41	-20	Pass
NVNT	g	2412	Ant1	-32.16	-20	Pass
NVNT	g	2437	Ant1	-34.13	-20	Pass
NVNT	g	2462	Ant1	-33.42	-20	Pass
NVNT	n20	2412	Ant1	-31.5	-20	Pass
NVNT	n20	2437	Ant1	-34.09	-20	Pass
NVNT	n20	2462	Ant1	-33.66	-20	Pass



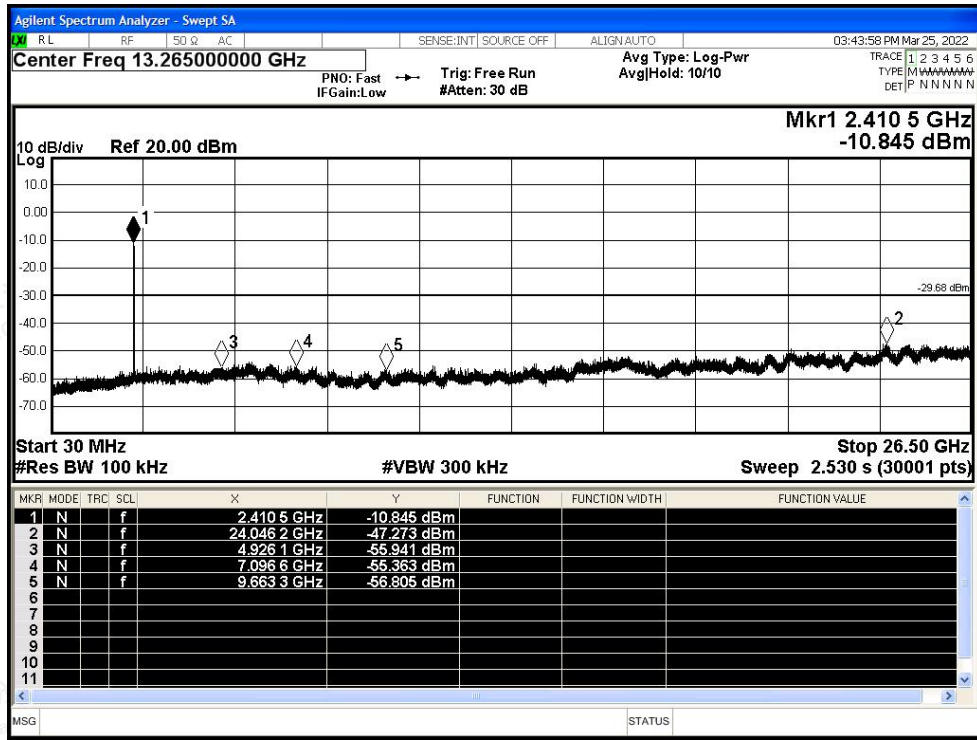


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

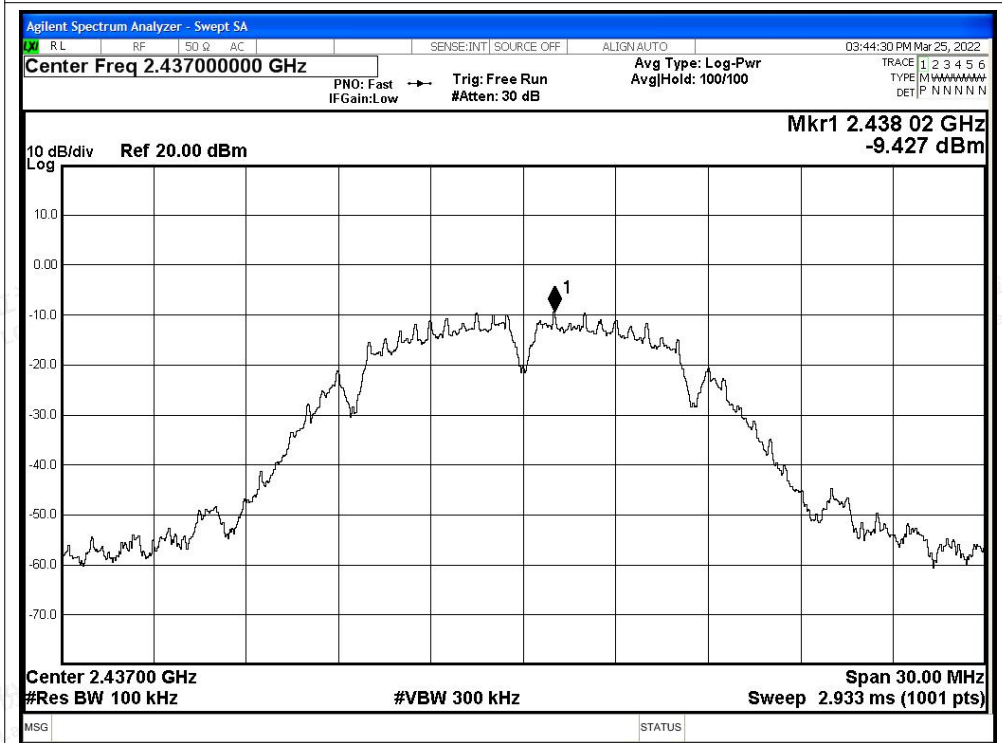


Tx. Spurious NVNT b 2412MHz Ant1 Emission

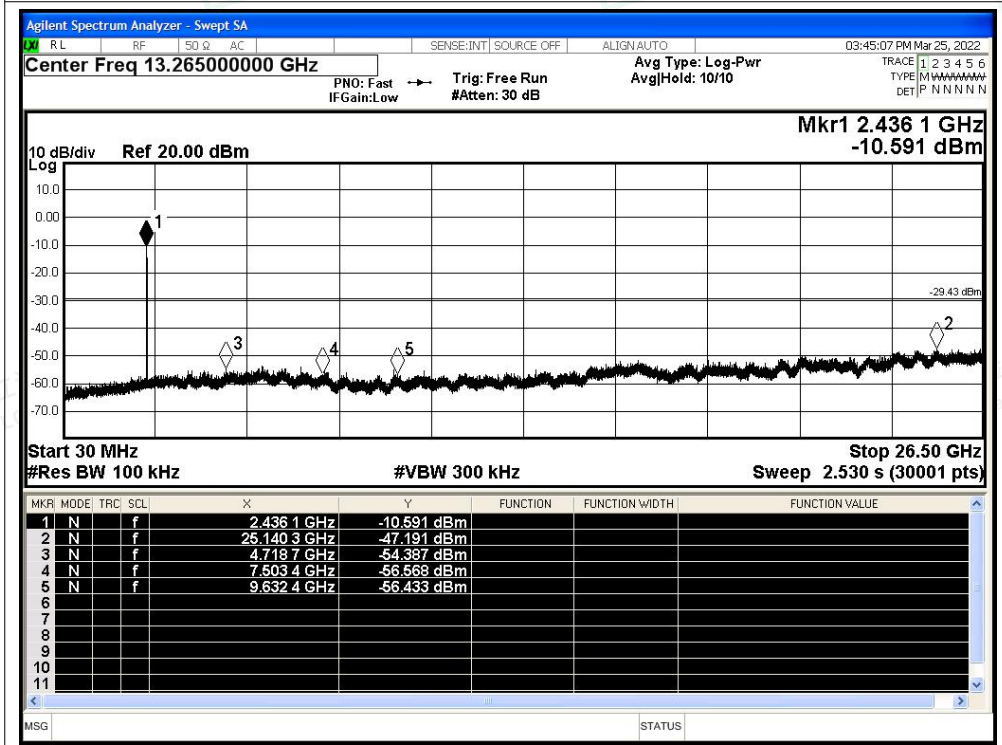




Tx. Spurious NVNT b 2437MHz Ant1 Ref

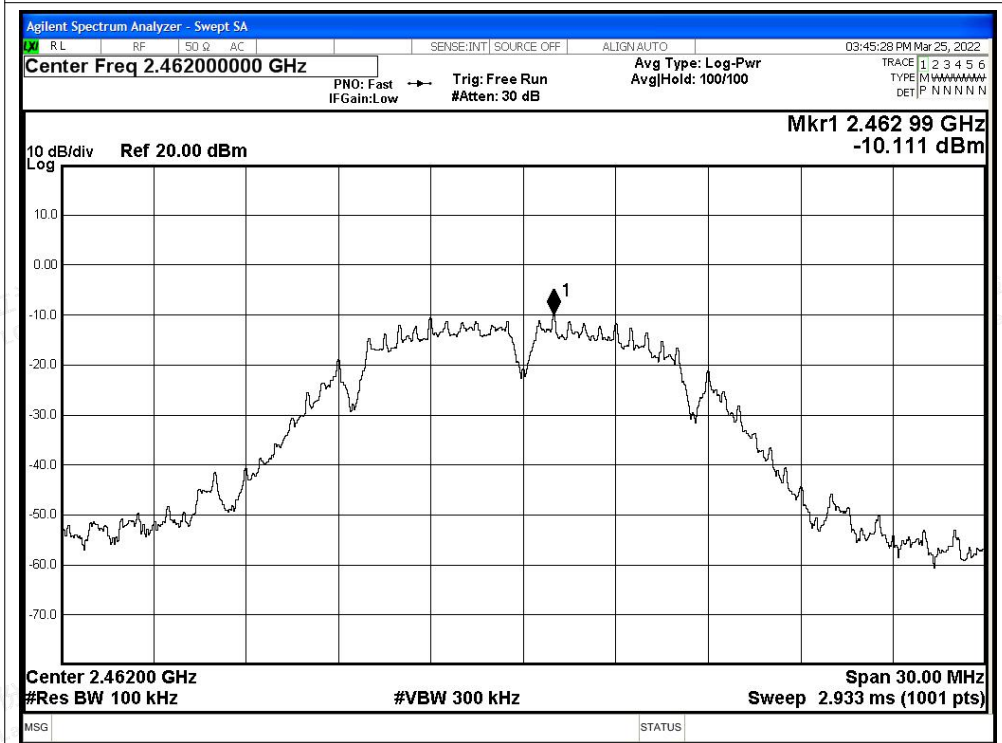


Tx. Spurious NVNT b 2437MHz Ant1 Emission

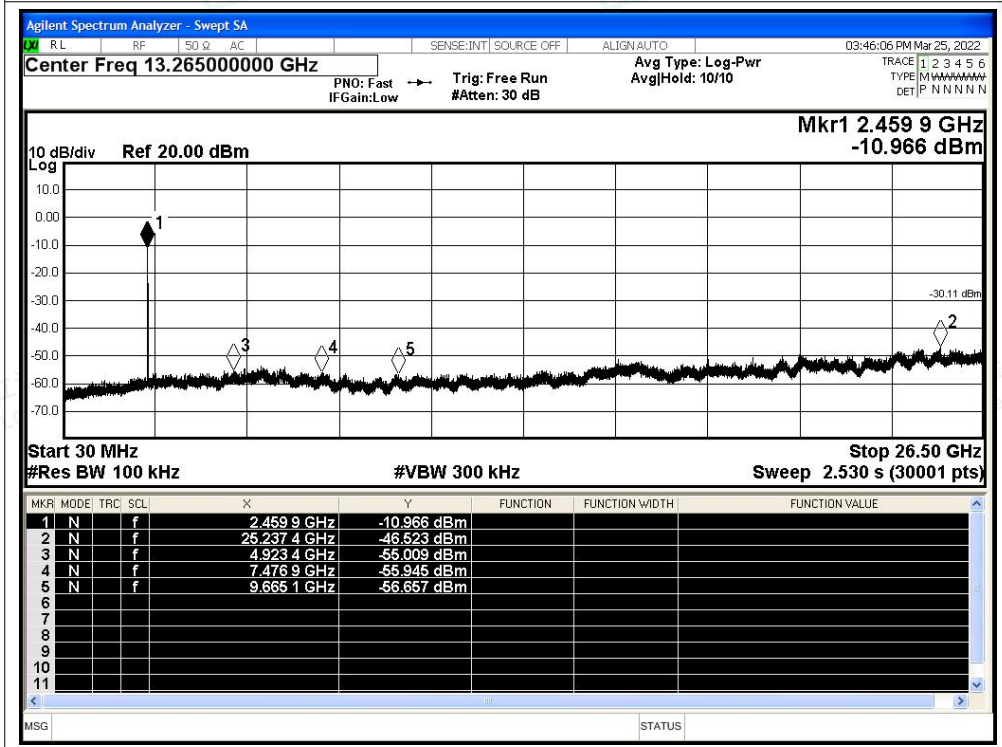




Tx. Spurious NVNT b 2462MHz Ant1 Ref

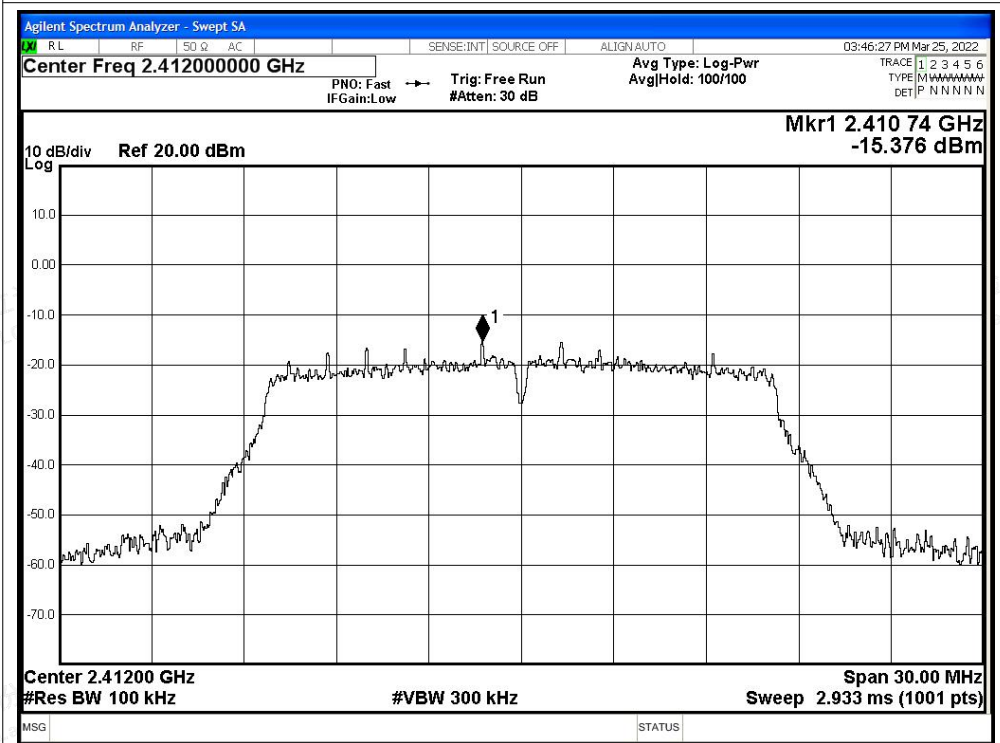


Tx. Spurious NVNT b 2462MHz Ant1 Emission





Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

