Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: kids tablet pc

Test Model: PK81

Environmental Conditions

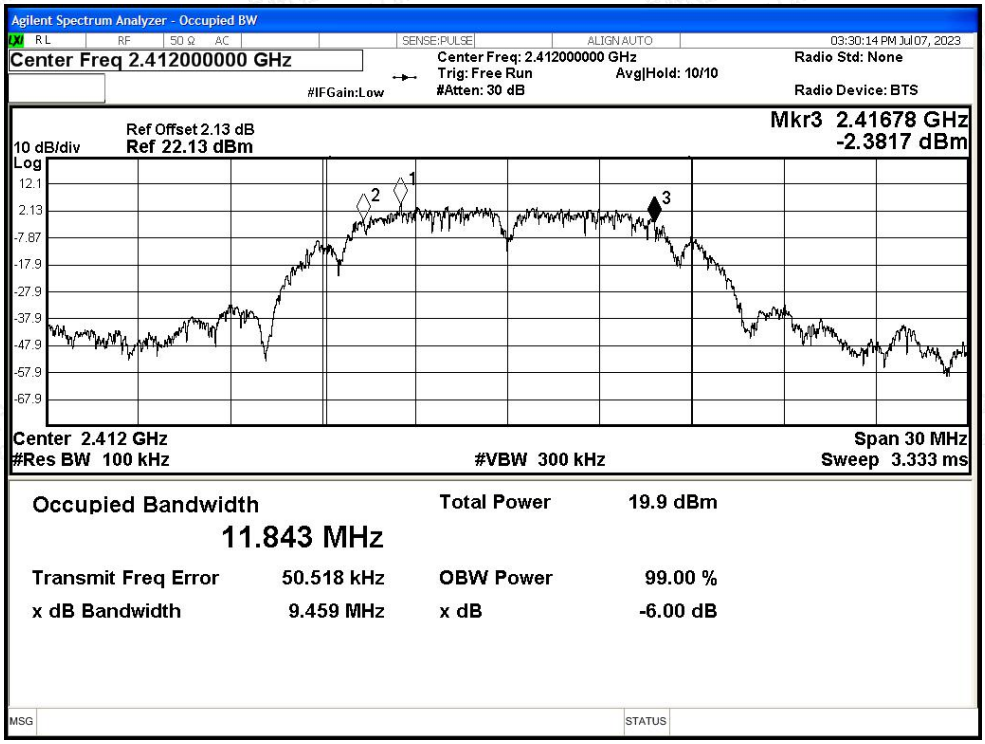
Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
	Nick Peng
Supervised by:	Ling Zhu
	Ling.Zhu

C.1 -6dB Bandwidth

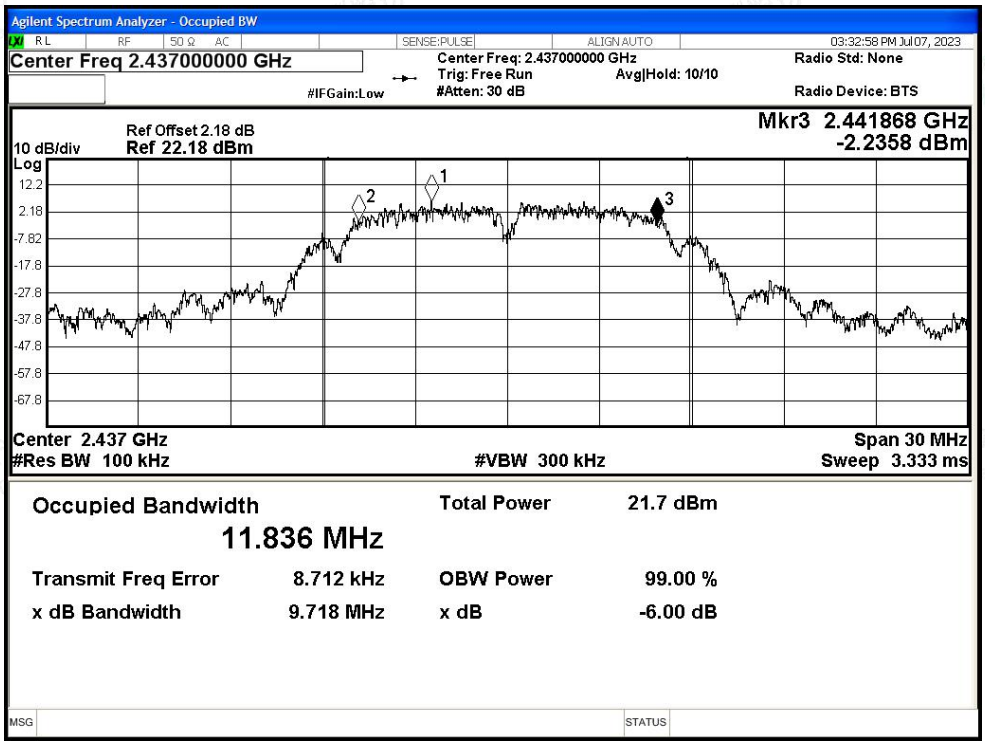
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.459	>=0.5	Pass
NVNT	b	2437	Ant1	9.718	>=0.5	Pass
NVNT	b	2462	Ant1	10.107	>=0.5	Pass
NVNT	g	2412	Ant1	16.284	>=0.5	Pass
NVNT	g	2437	Ant1	16.362	>=0.5	Pass
NVNT	g	2462	Ant1	16.38	>=0.5	Pass
NVNT	n20	2412	Ant1	16.722	>=0.5	Pass
NVNT	n20	2437	Ant1	16.267	>=0.5	Pass
NVNT	n20	2462	Ant1	16.438	>=0.5	Pass
NVNT	n40	2422	Ant1	35.663	>=0.5	Pass
NVNT	n40	2437	Ant1	34.381	>=0.5	Pass
NVNT	n40	2452	Ant1	34.067	>=0.5	Pass
NVNT	ax20	2412	Ant1	16.86	>=0.5	Pass
NVNT	ax20	2437	Ant1	15.059	>=0.5	Pass
NVNT	ax20	2462	Ant1	16.643	>=0.5	Pass
NVNT	ax40	2422	Ant1	35.002	>=0.5	Pass
NVNT	ax40	2437	Ant1	34.944	>=0.5	Pass
NVNT	ax40	2452	Ant1	37.369	>=0.5	Pass

Test Graphs

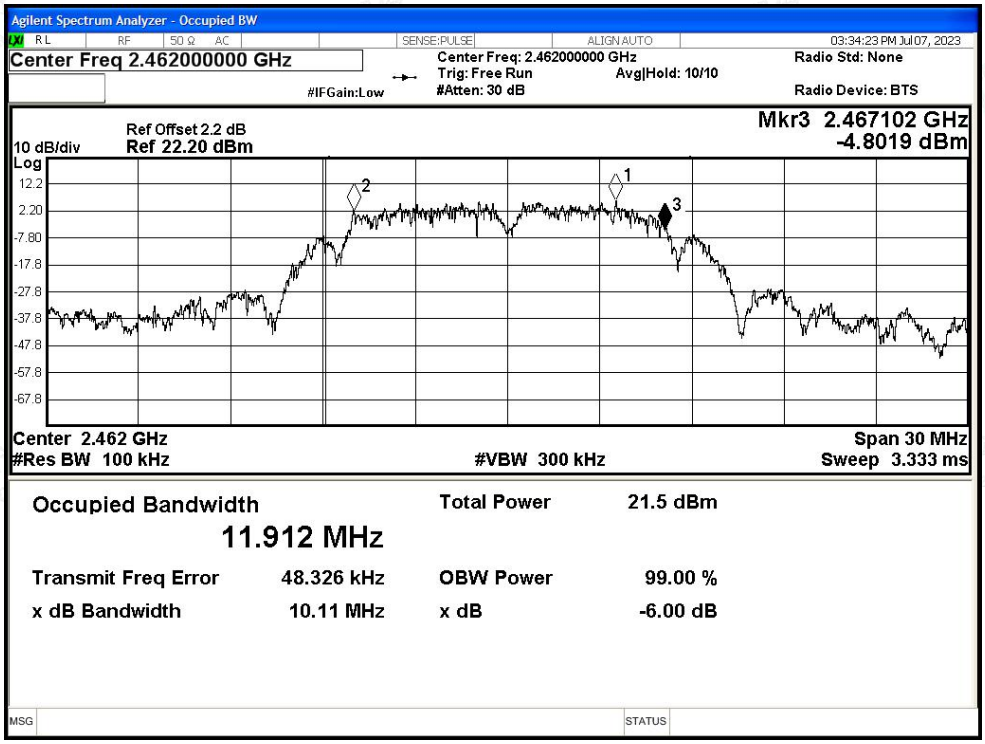
-6dB Bandwidth NVNT b 2412MHz Ant1



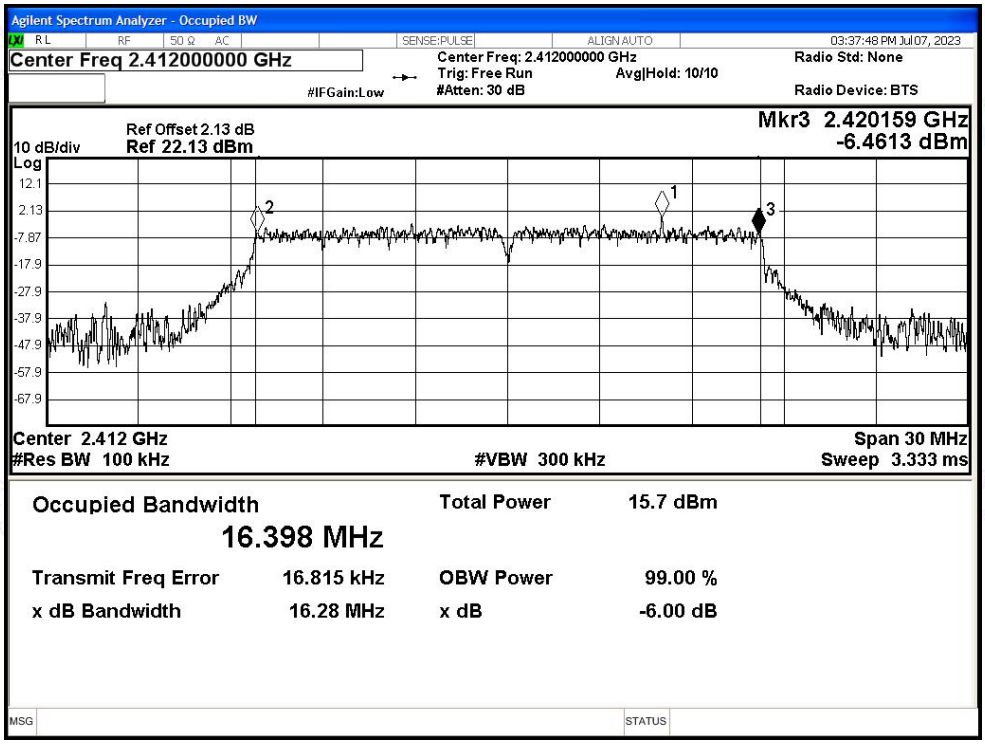
-6dB Bandwidth NVNT b 2437MHz Ant1



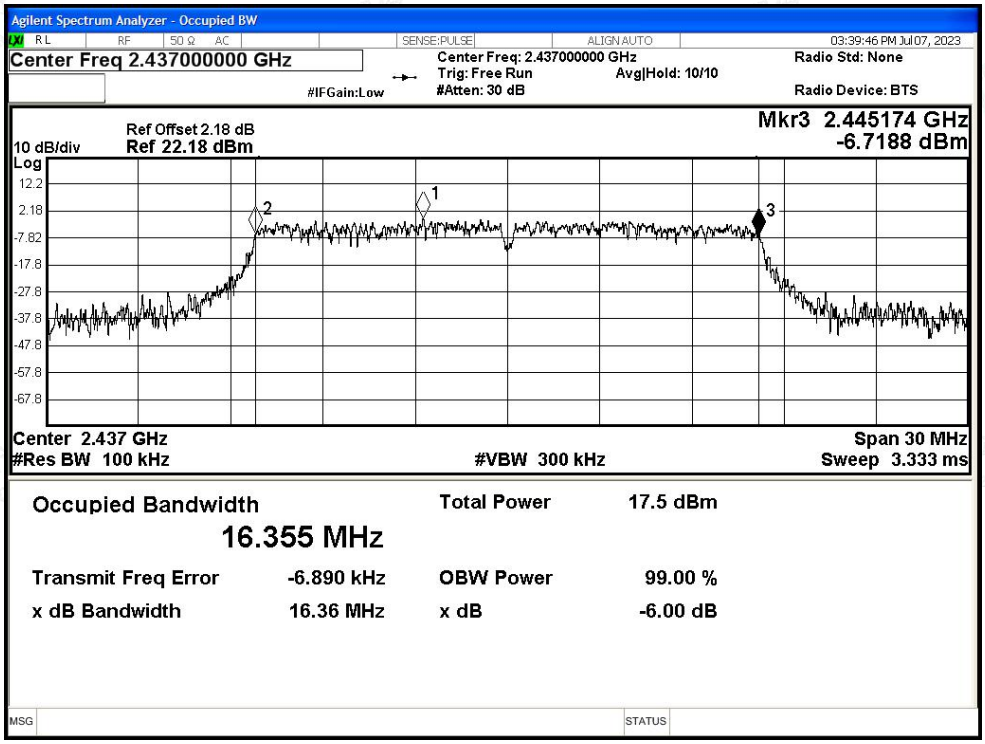
-6dB Bandwidth NVNT b 2462MHz Ant1



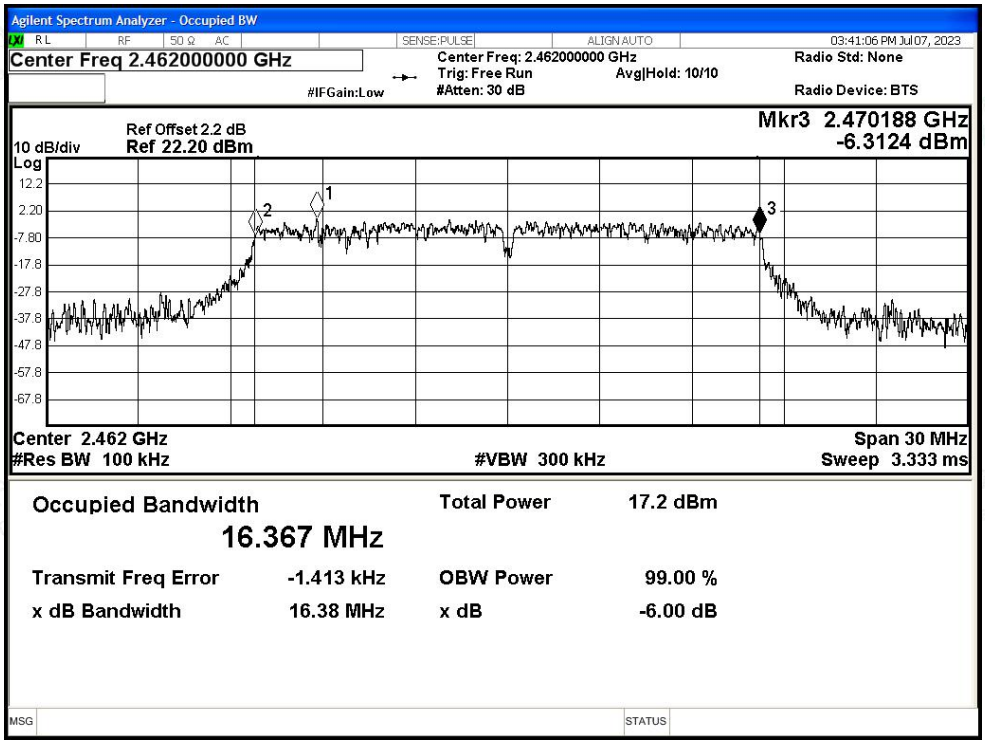
-6dB Bandwidth NVNT g 2412MHz Ant1



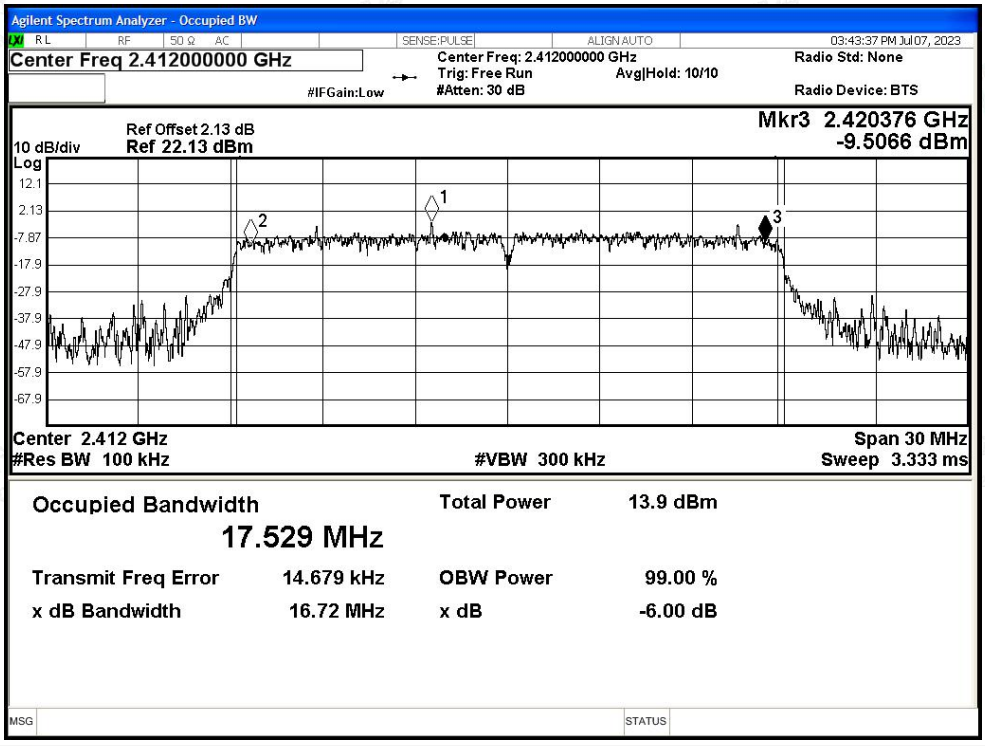
-6dB Bandwidth NVNT g 2437MHz Ant1



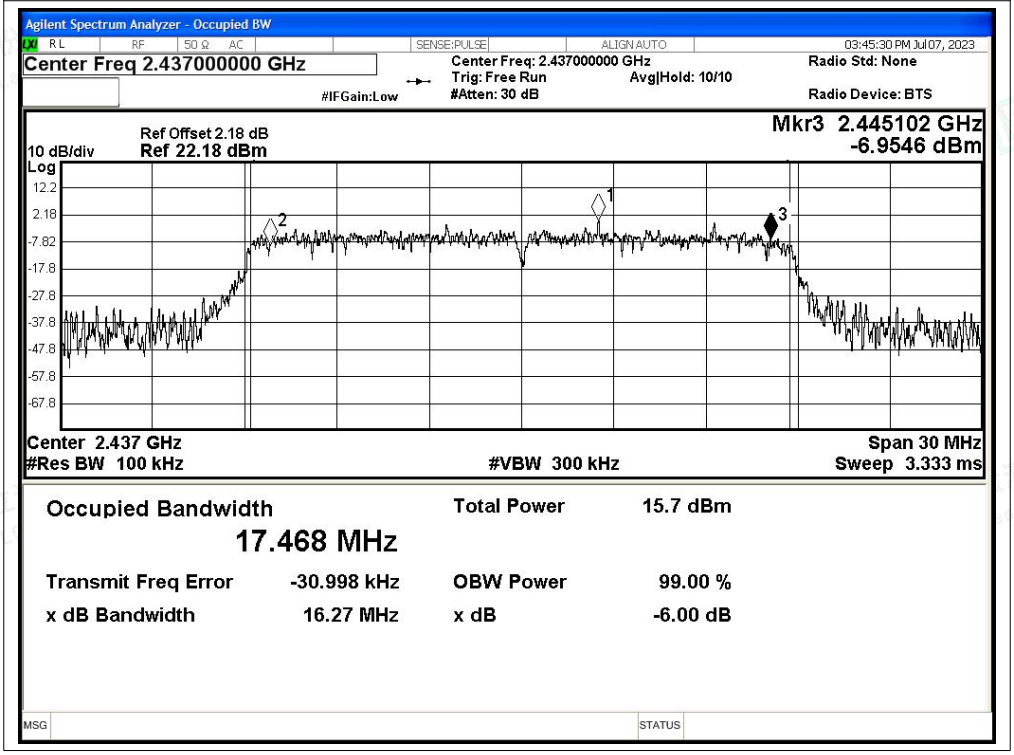
-6dB Bandwidth NVNT g 2462MHz Ant1



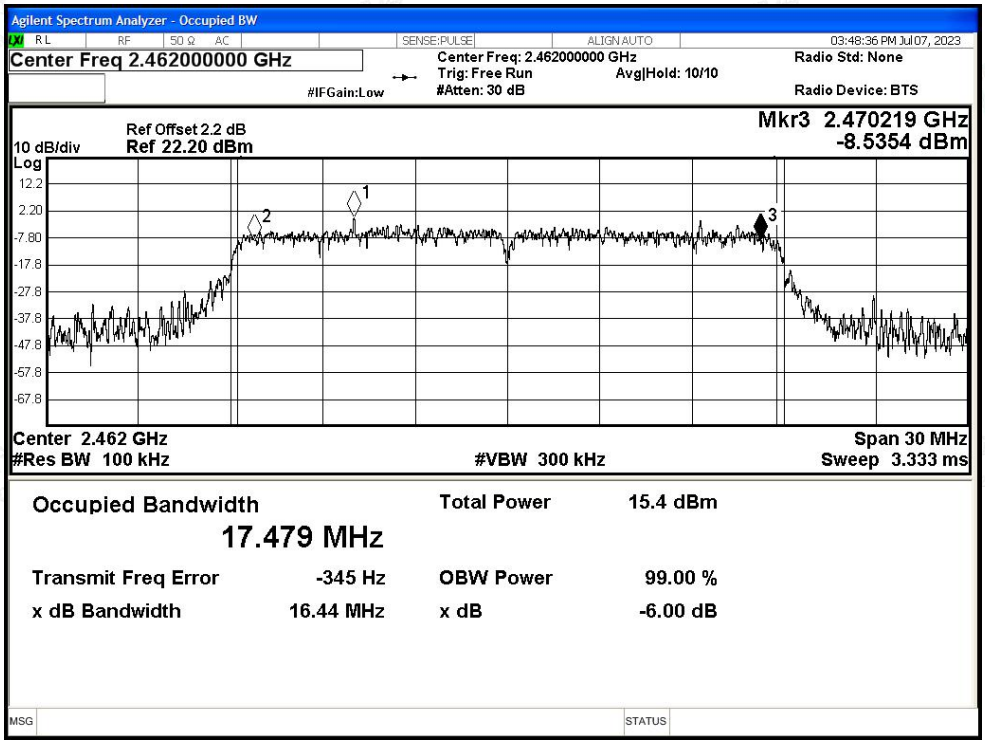
-6dB Bandwidth NVNT n20 2412MHz Ant1



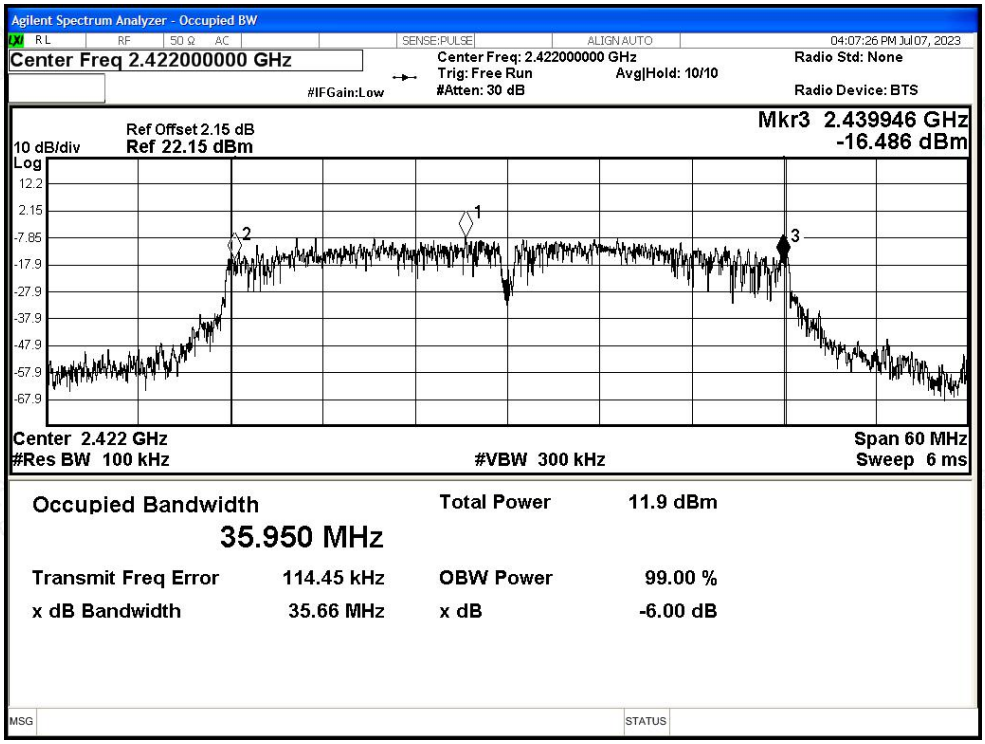
-6dB Bandwidth NVNT n20 2437MHz Ant1



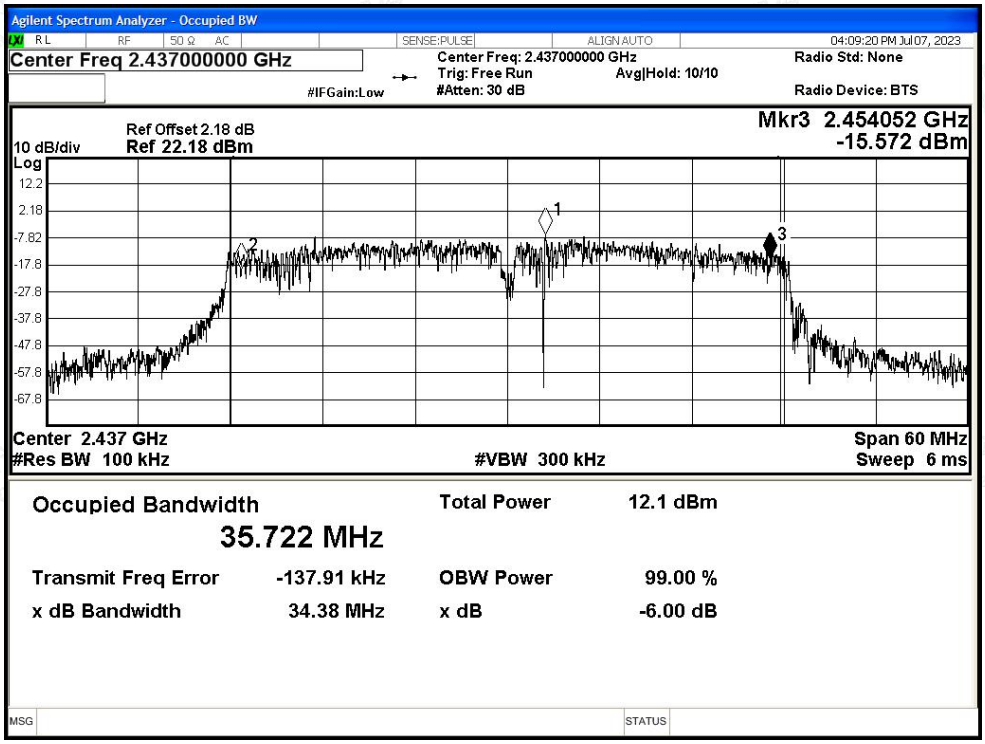
-6dB Bandwidth NVNT n20 2462MHz Ant1



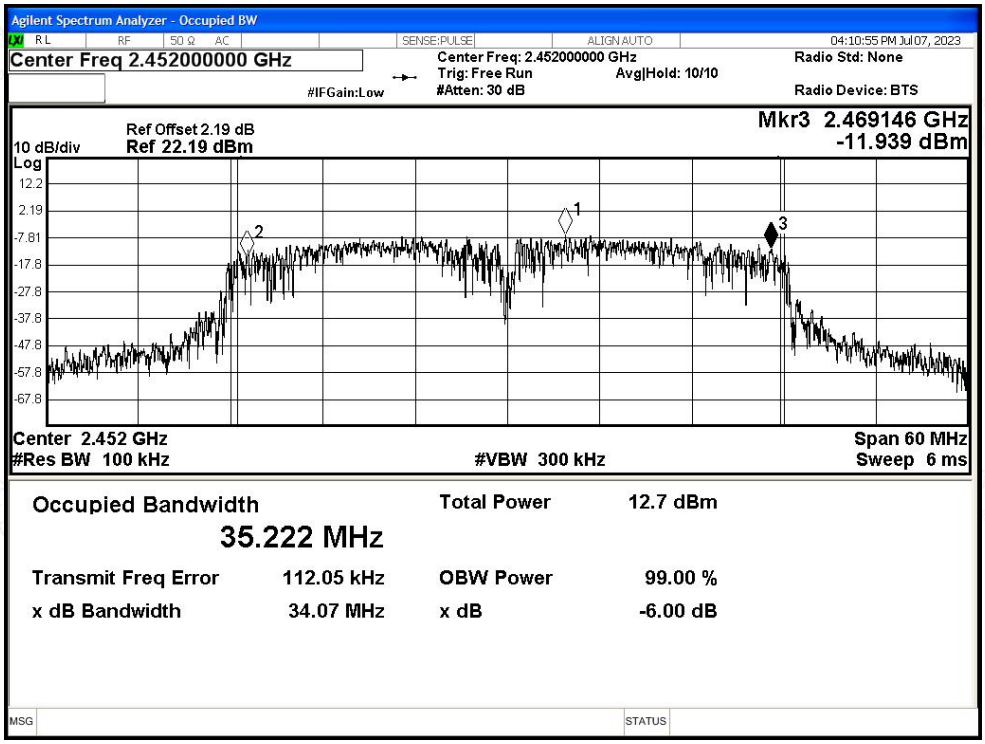
-6dB Bandwidth NVNT n40 2422MHz Ant1



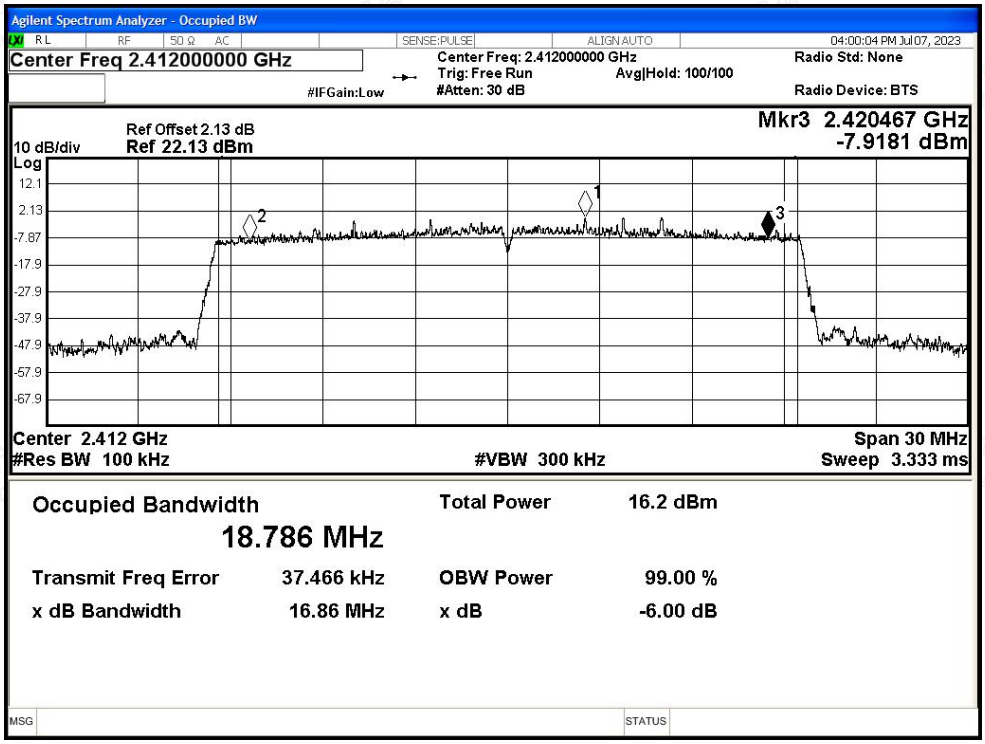
-6dB Bandwidth NVNT n40 2437MHz Ant1



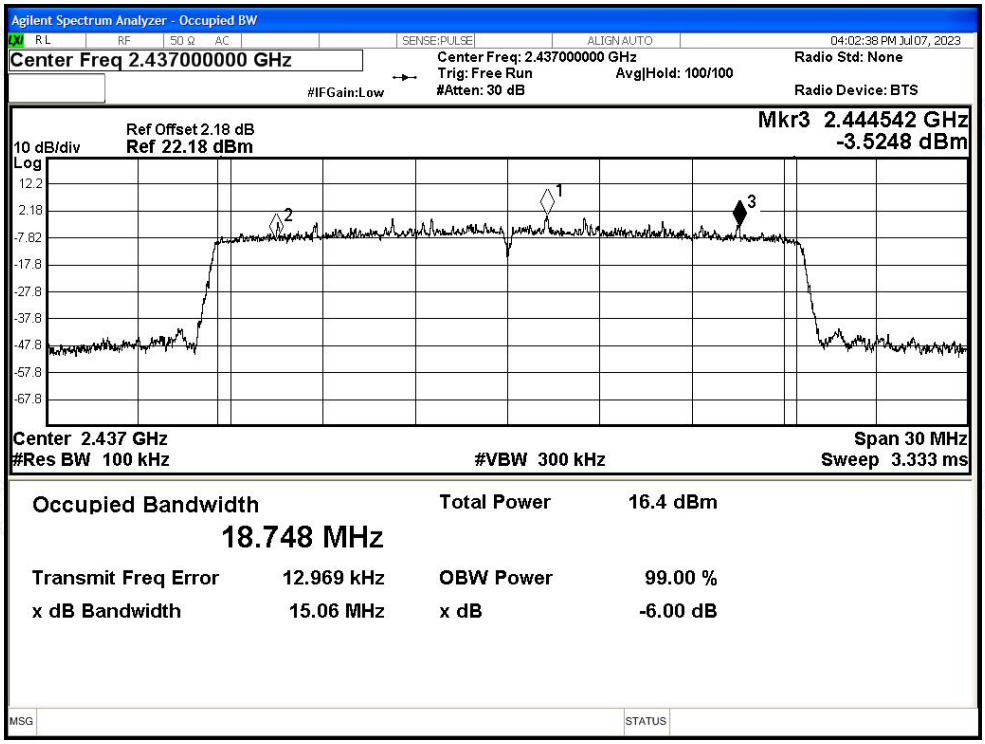
-6dB Bandwidth NVNT n40 2452MHz Ant1



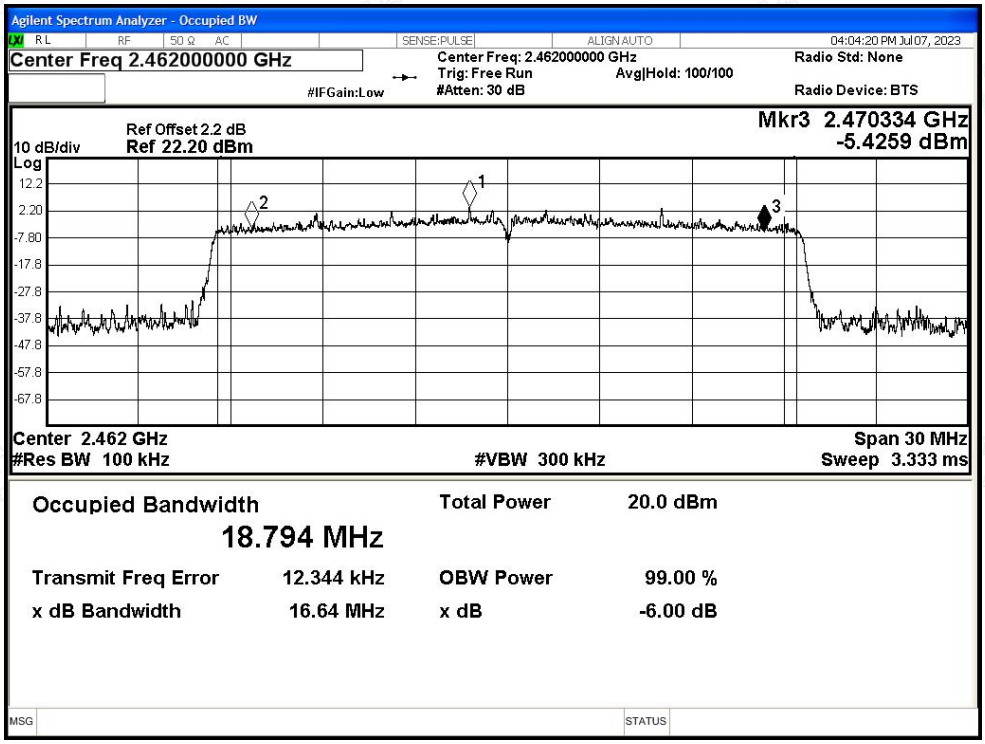
-6dB Bandwidth NVNT ax20 2412MHz Ant1



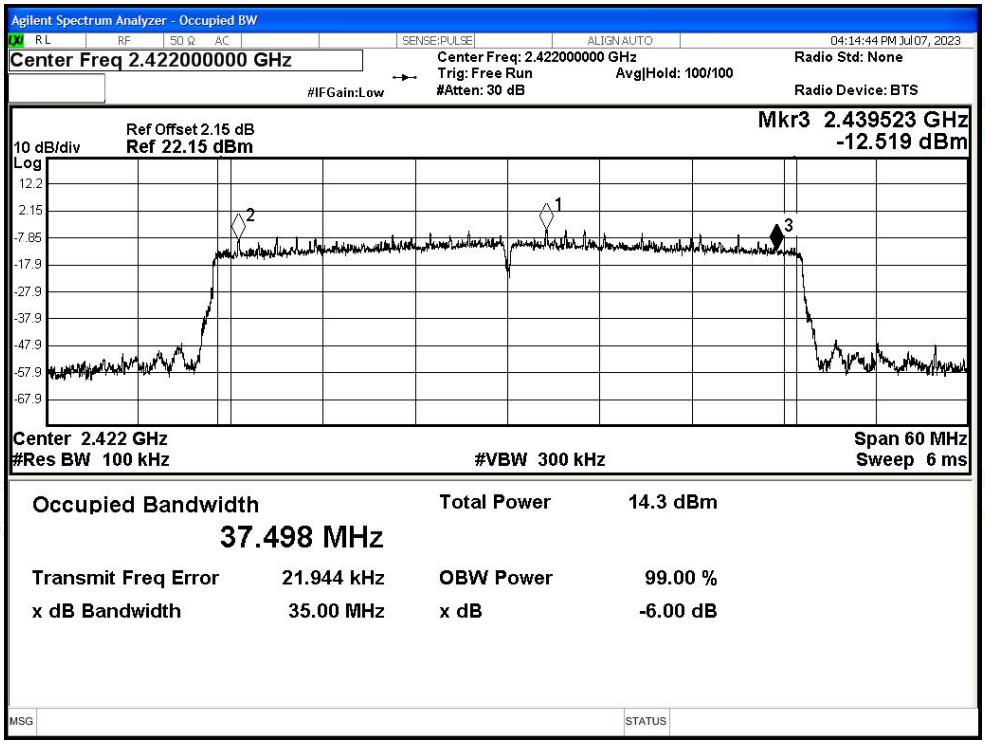
-6dB Bandwidth NVNT ax20 2437MHz Ant1



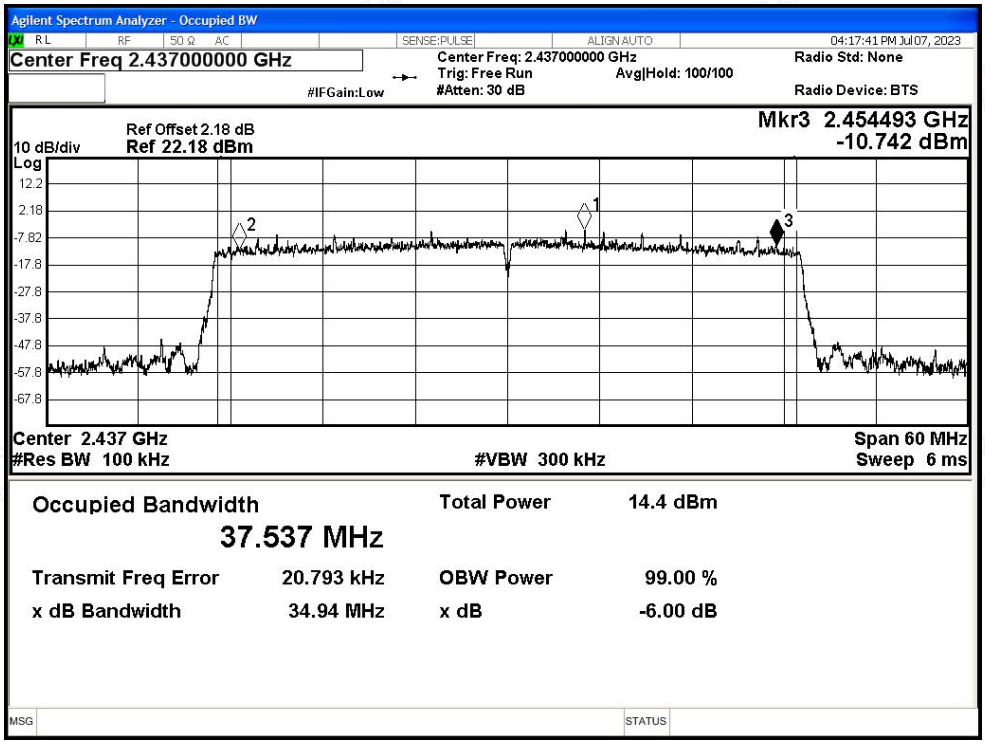
-6dB Bandwidth NVNT ax20 2462MHz Ant1



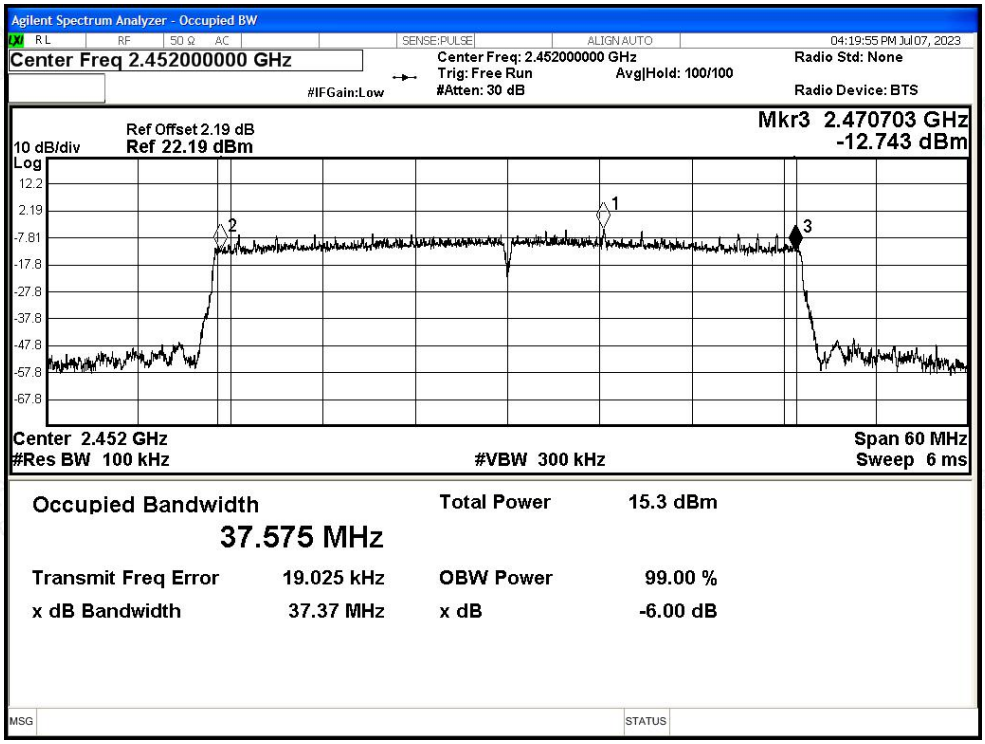
-6dB Bandwidth NVNT ax40 2422MHz Ant1



-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1



C.2 Maximum Conducted Output Power

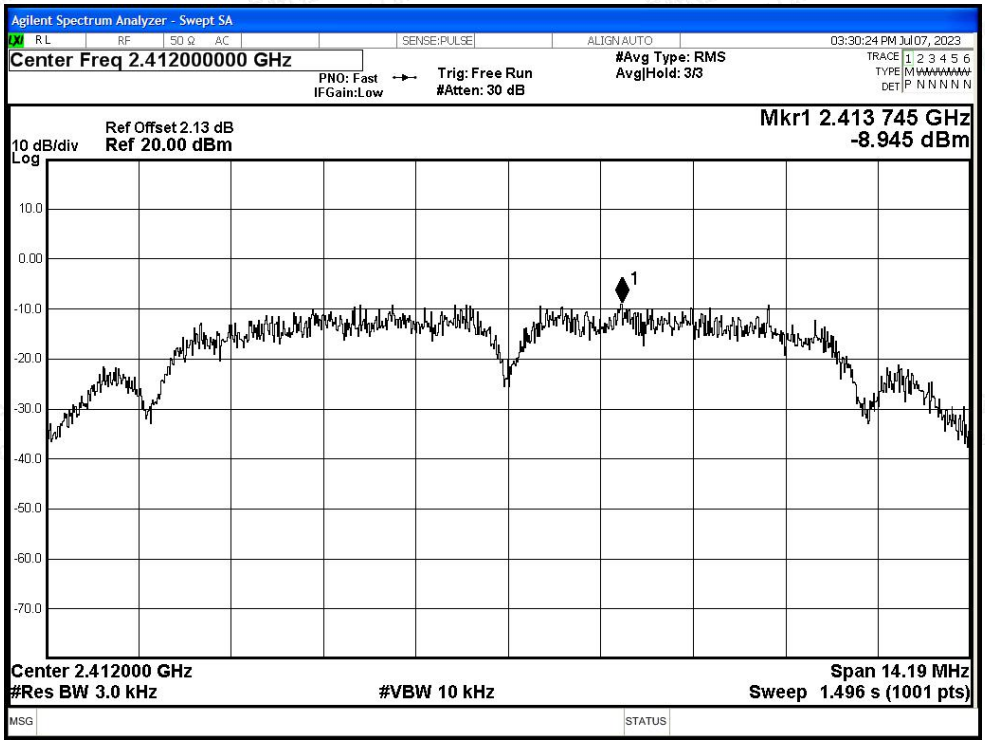
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.64	30	Pass
NVNT	b	2437	Ant1	18.46	30	Pass
NVNT	b	2462	Ant1	18.2	30	Pass
NVNT	g	2412	Ant1	14.34	30	Pass
NVNT	g	2437	Ant1	16.33	30	Pass
NVNT	g	2462	Ant1	15.77	30	Pass
NVNT	n20	2412	Ant1	12.32	30	Pass
NVNT	n20	2437	Ant1	14.25	30	Pass
NVNT	n20	2462	Ant1	15.69	30	Pass
NVNT	n40	2422	Ant1	10.51	30	Pass
NVNT	n40	2437	Ant1	10.68	30	Pass
NVNT	n40	2452	Ant1	11.23	30	Pass
NVNT	ax20	2412	Ant1	15.75	30	Pass
NVNT	ax20	2437	Ant1	15.83	30	Pass
NVNT	ax20	2462	Ant1	19.48	30	Pass
NVNT	ax40	2422	Ant1	13.58	30	Pass
NVNT	ax40	2437	Ant1	13.83	30	Pass
NVNT	ax40	2452	Ant1	14.65	30	Pass

C.3 Maximum Power Spectral Density Level

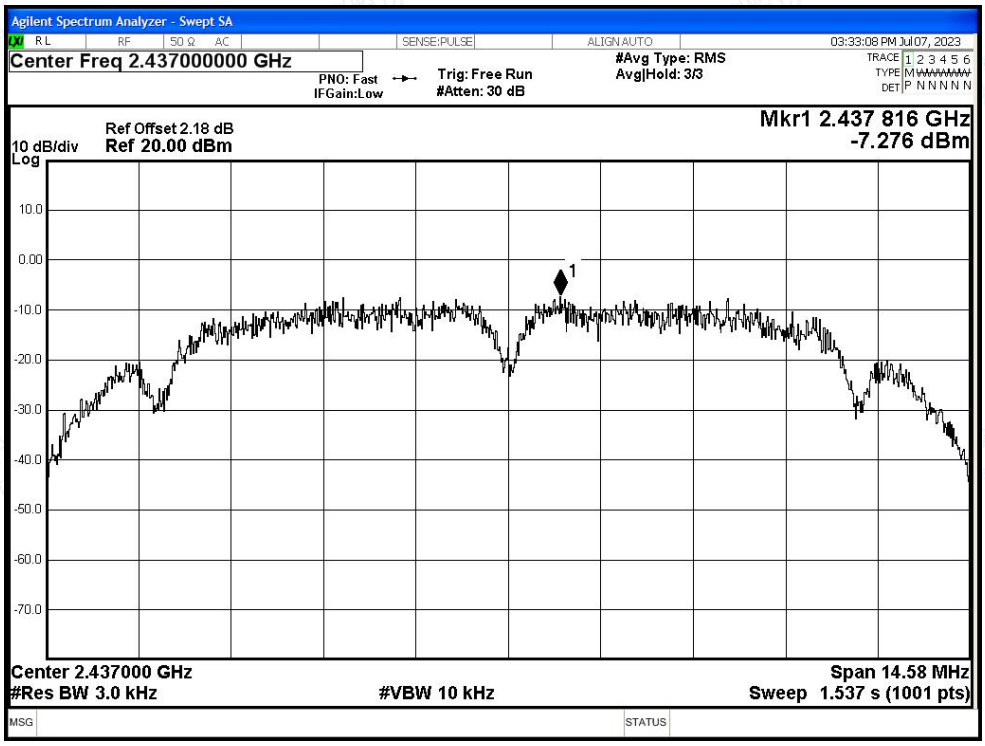
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.95	8	Pass
NVNT	b	2437	Ant1	-7.28	8	Pass
NVNT	b	2462	Ant1	-6.29	8	Pass
NVNT	g	2412	Ant1	-14.3	8	Pass
NVNT	g	2437	Ant1	-12.24	8	Pass
NVNT	g	2462	Ant1	-12.28	8	Pass
NVNT	n20	2412	Ant1	-16.67	8	Pass
NVNT	n20	2437	Ant1	-13.57	8	Pass
NVNT	n20	2462	Ant1	-14.85	8	Pass
NVNT	n40	2422	Ant1	-19.6	8	Pass
NVNT	n40	2437	Ant1	-18.6	8	Pass
NVNT	n40	2452	Ant1	-19.13	8	Pass
NVNT	ax20	2412	Ant1	-14.92	8	Pass
NVNT	ax20	2437	Ant1	-14.6	8	Pass
NVNT	ax20	2462	Ant1	-9.11	8	Pass
NVNT	ax40	2422	Ant1	-19.85	8	Pass
NVNT	ax40	2437	Ant1	-19.02	8	Pass
NVNT	ax40	2452	Ant1	-18.87	8	Pass

Test Graphs

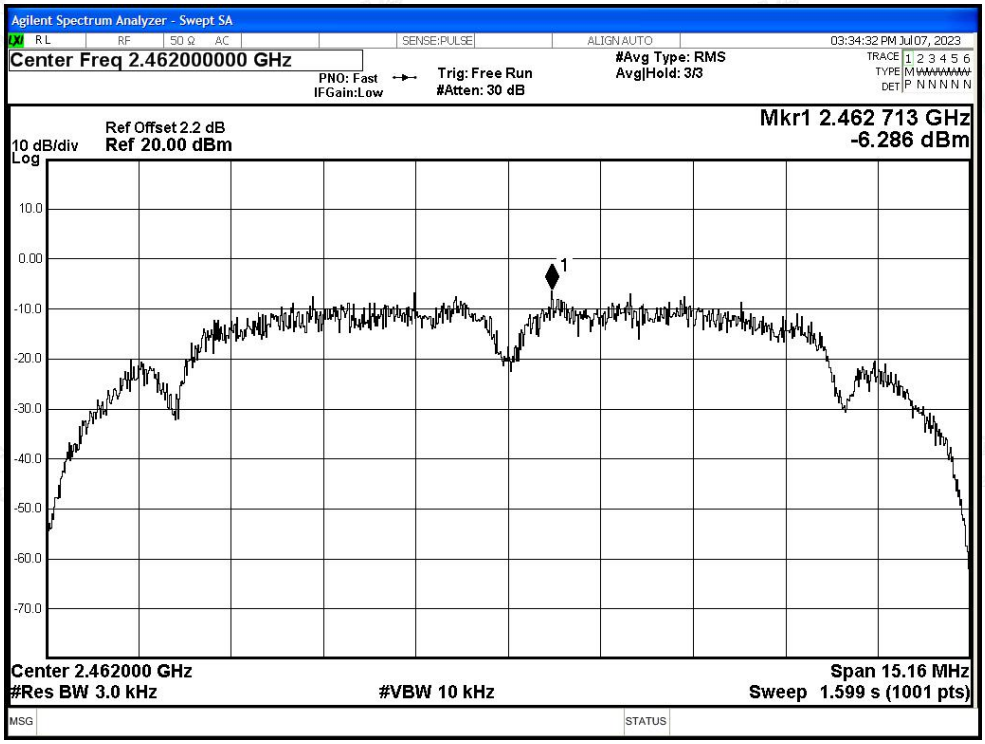
PSD NVNT b 2412MHz Ant1



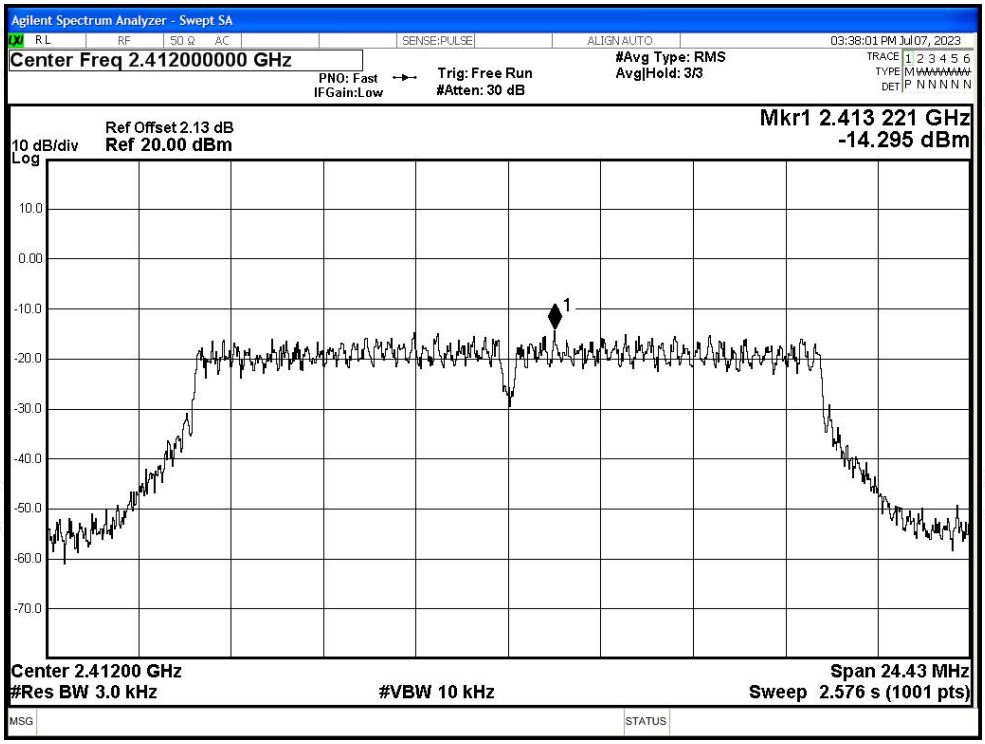
PSD NVNT b 2437MHz Ant1



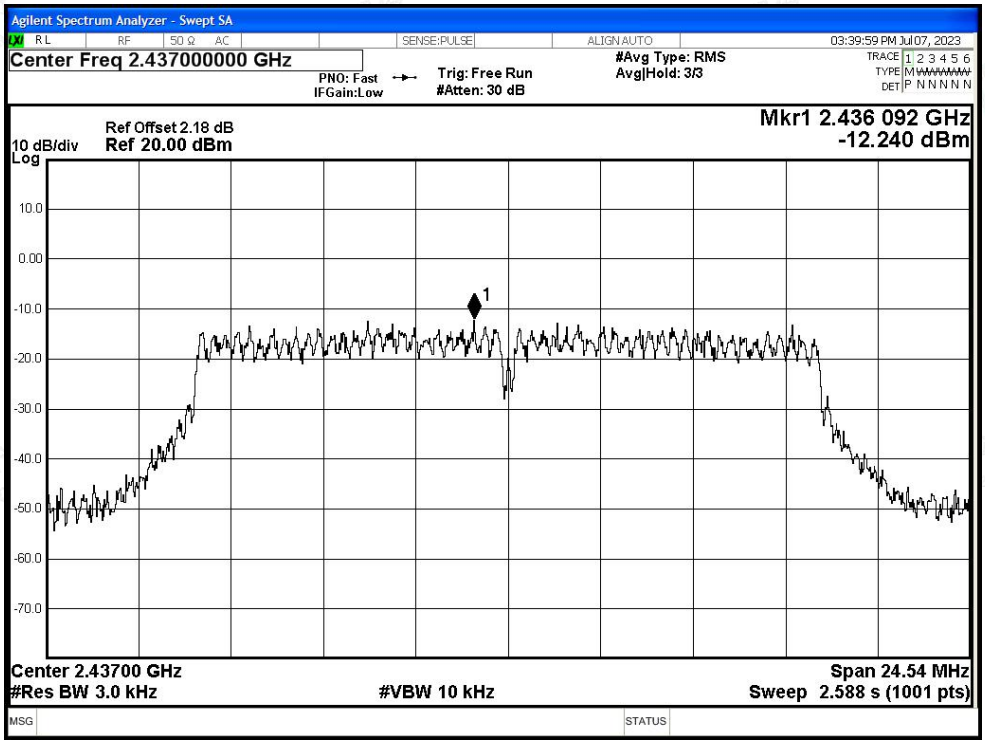
PSD NVNT b 2462MHz Ant1



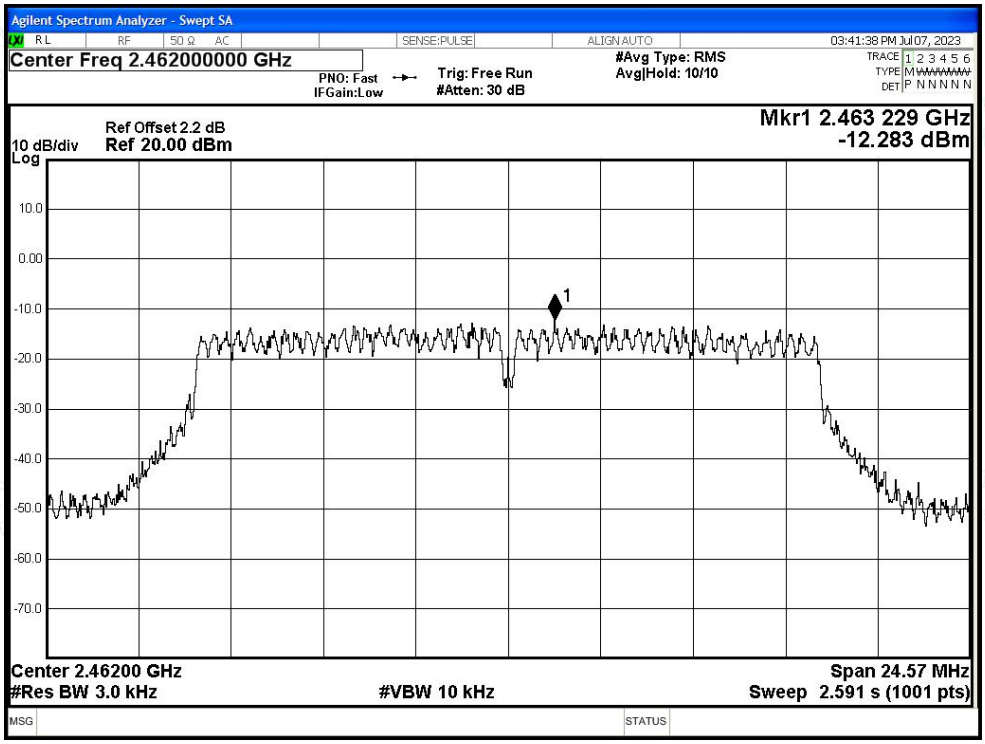
PSD NVNT g 2412MHz Ant1



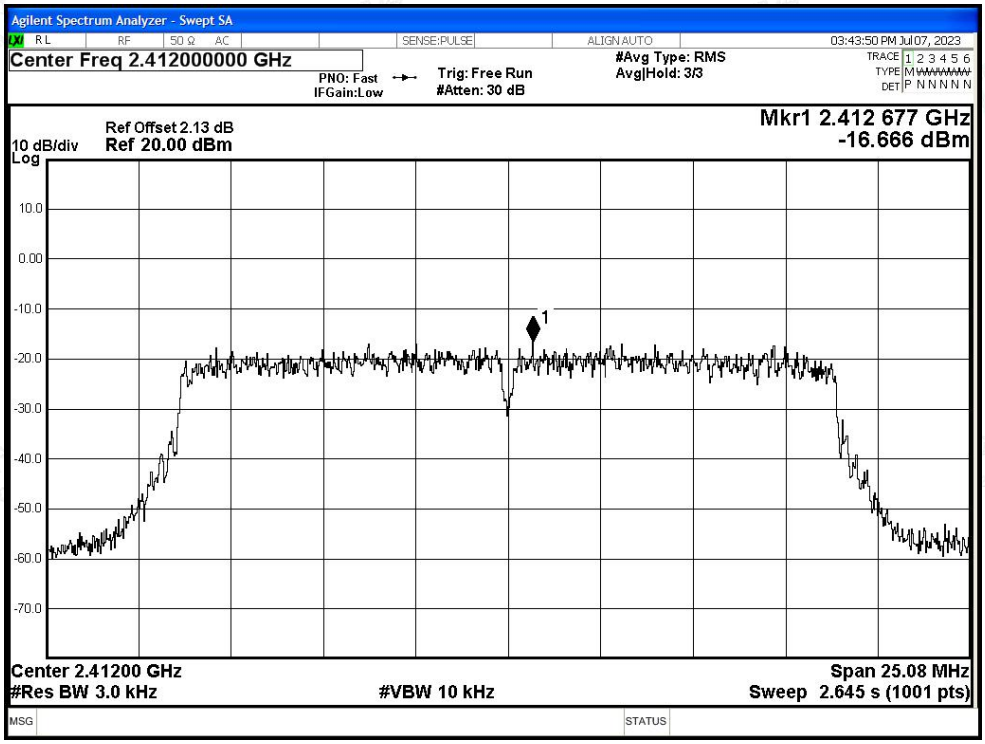
PSD NVNT g 2437MHz Ant1



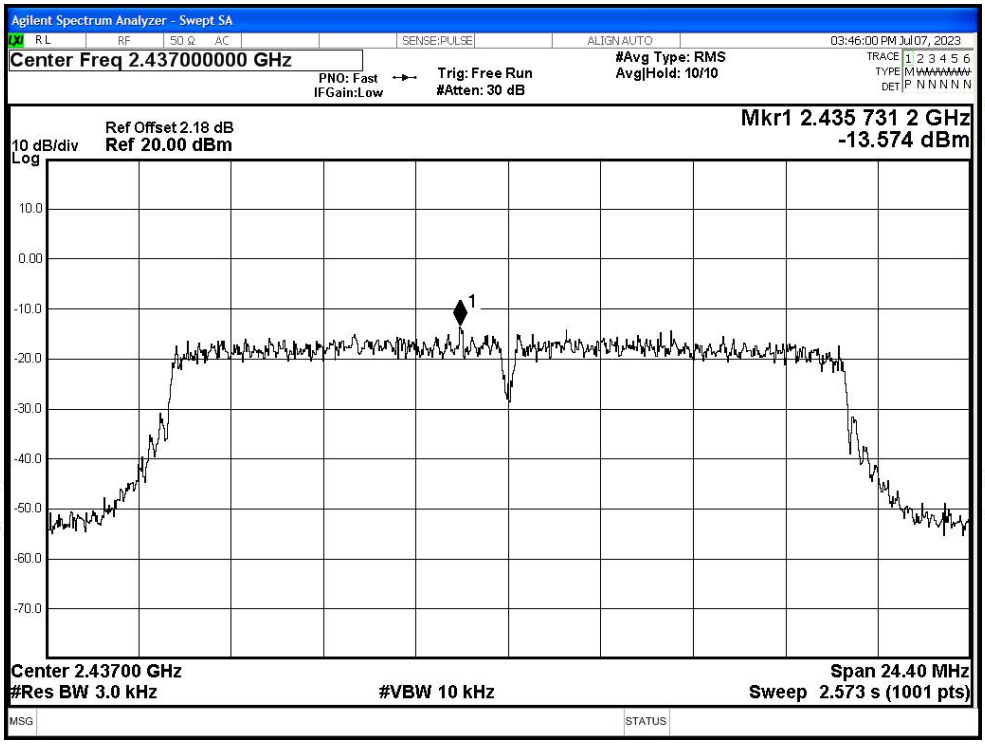
PSD NVNT g 2462MHz Ant1



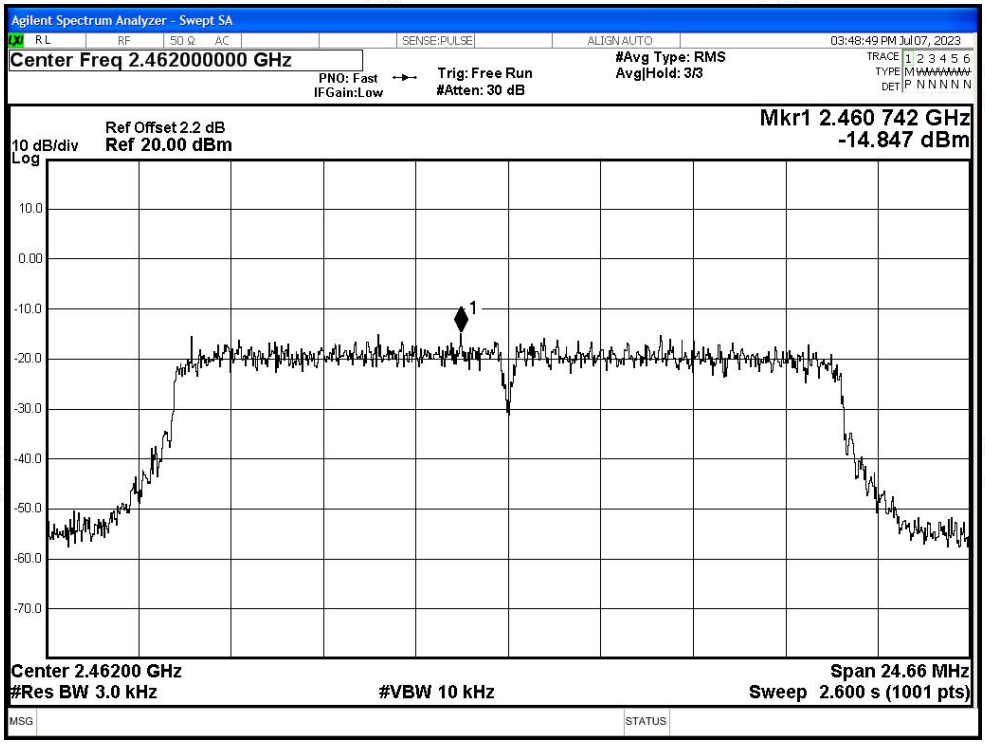
PSD NVNT n20 2412MHz Ant1



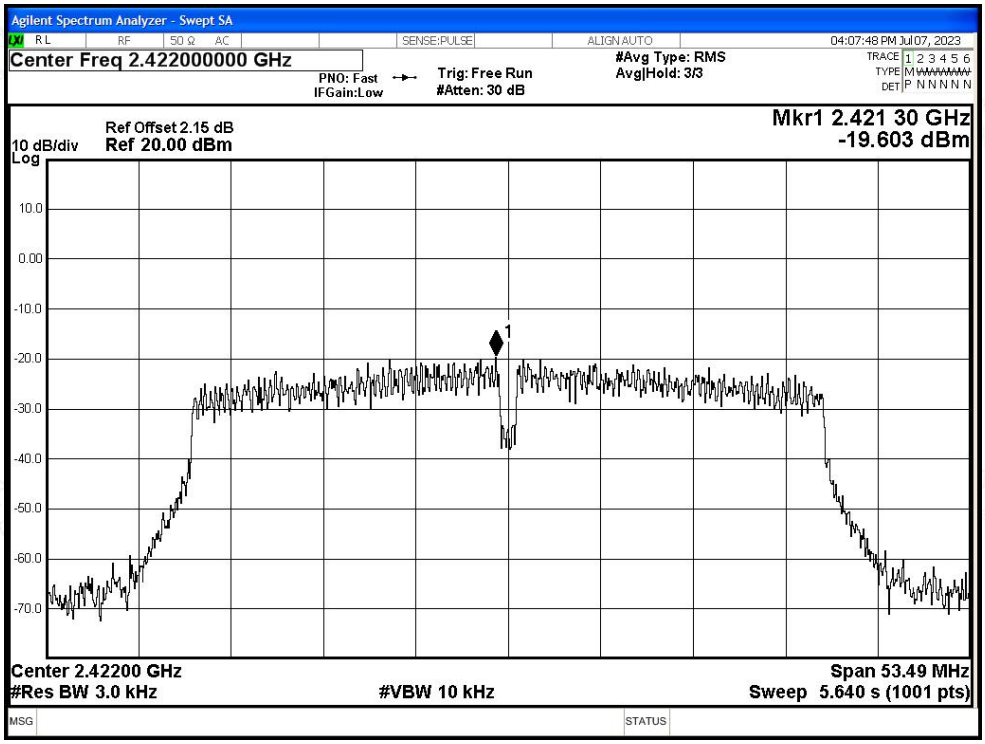
PSD NVNT n20 2437MHz Ant1



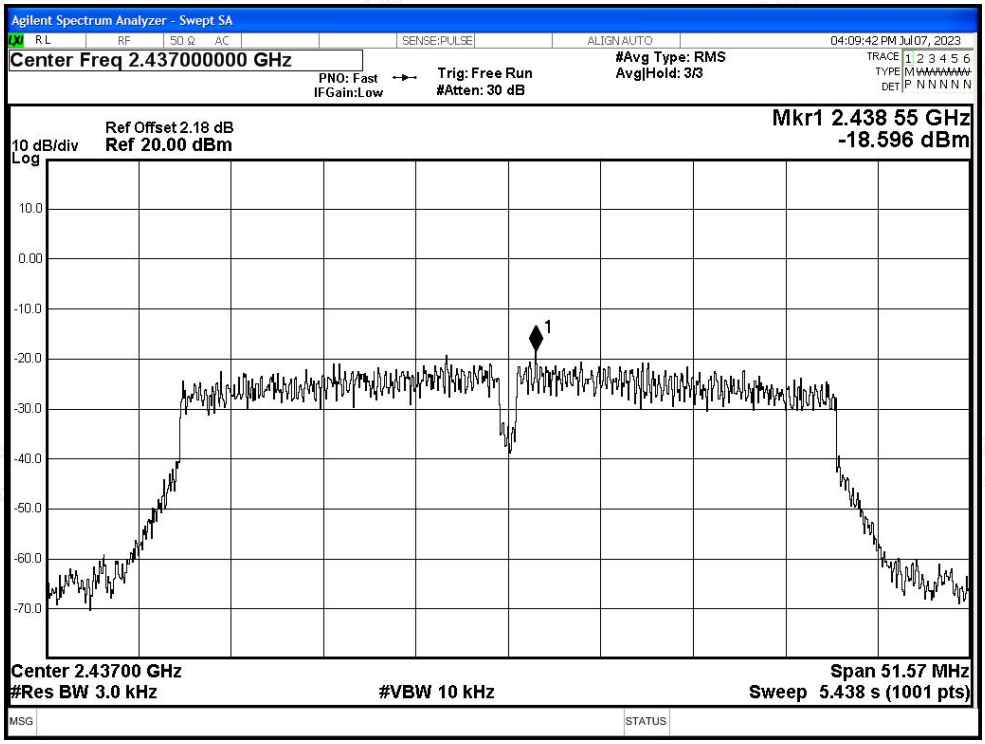
PSD NVNT n20 2462MHz Ant1



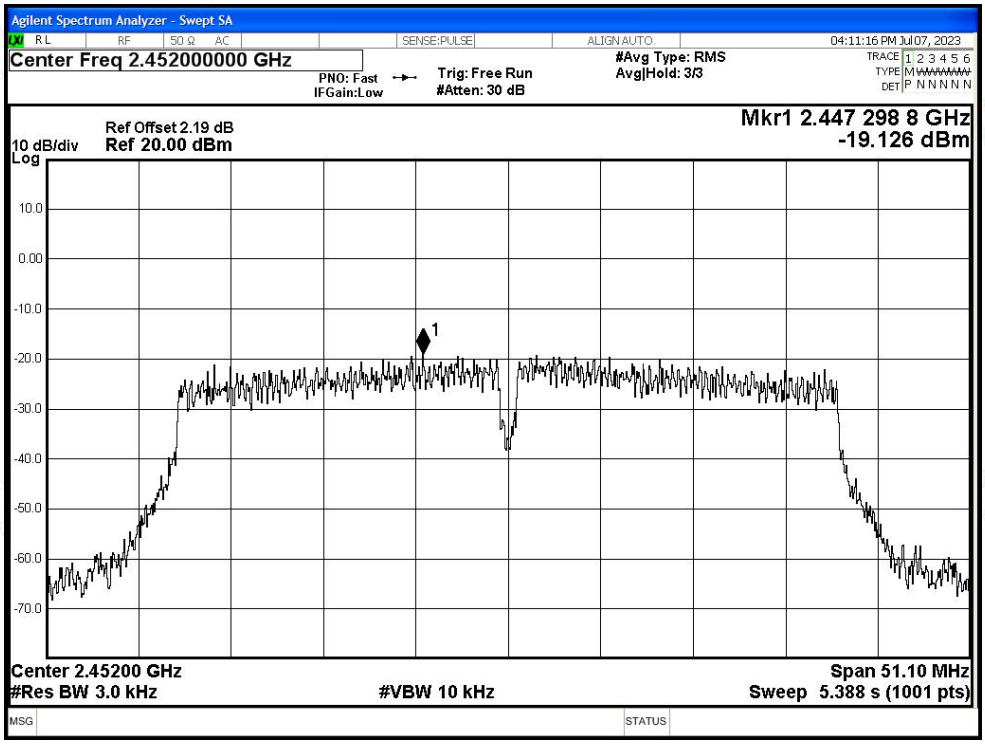
PSD NVNT n40 2422MHz Ant1



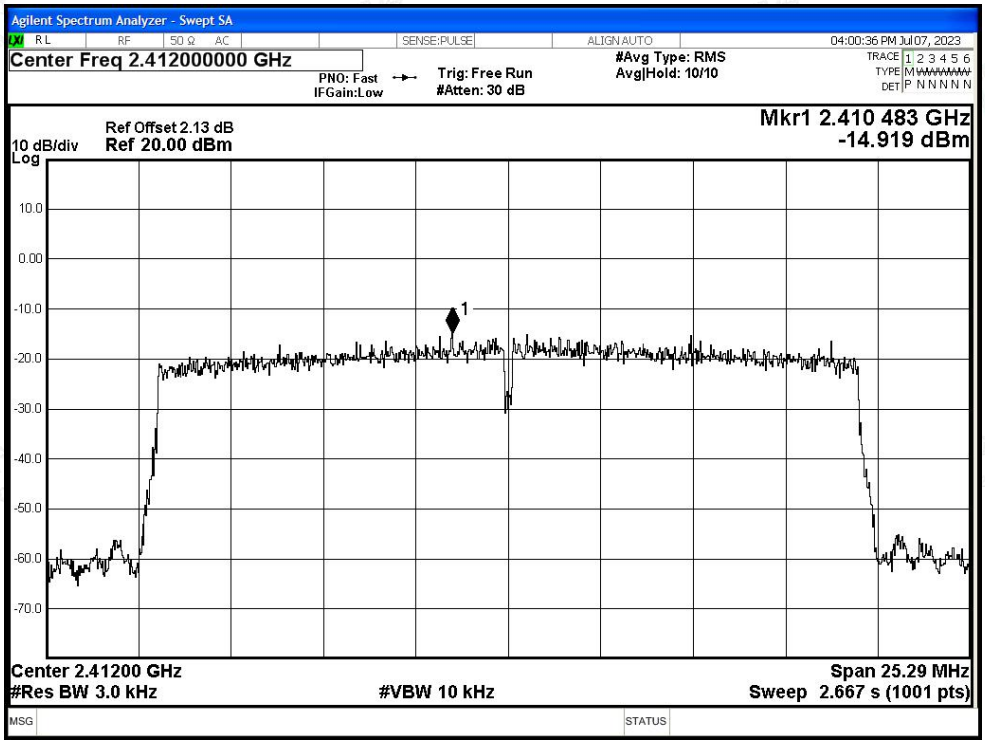
PSD NVNT n40 2437MHz Ant1



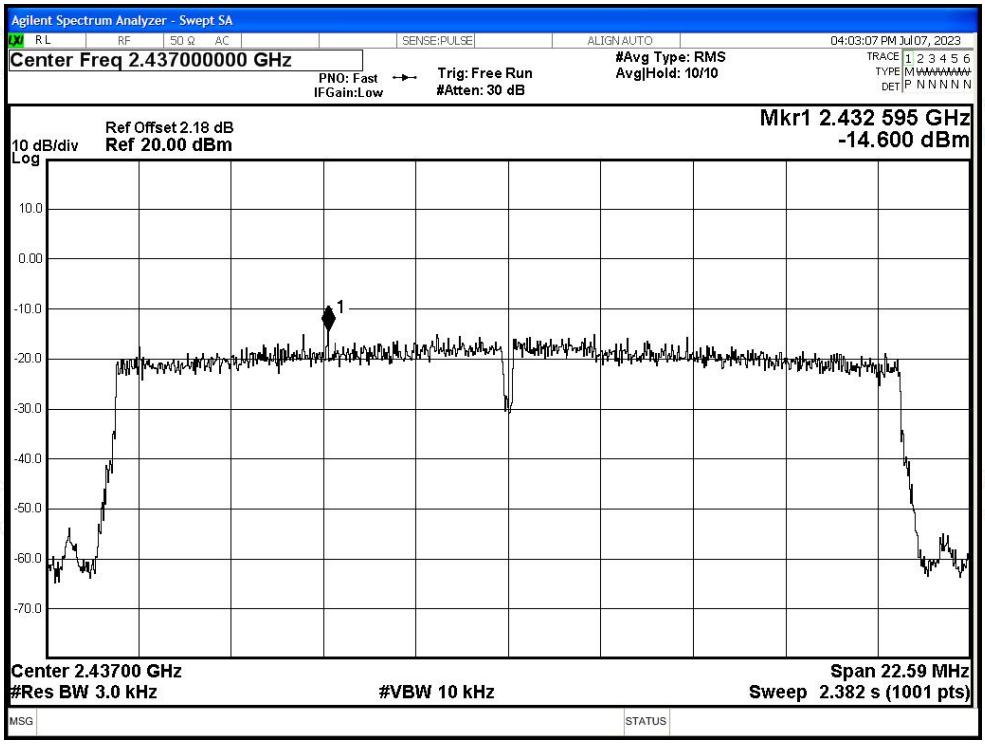
PSD NVNT n40 2452MHz Ant1



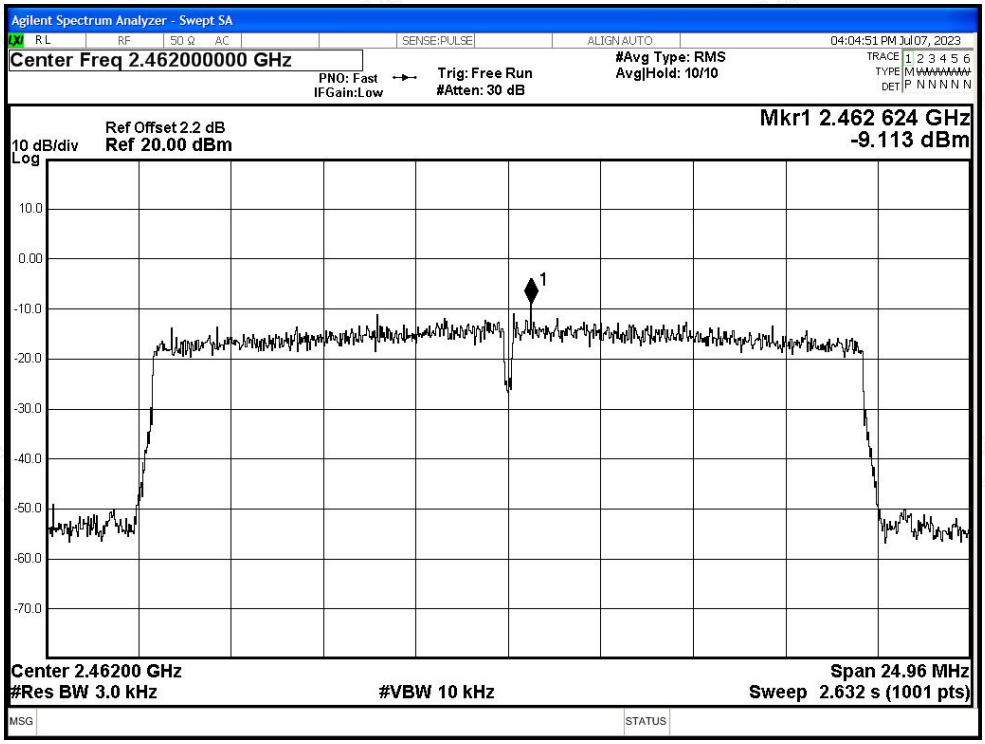
PSD NVNT ax20 2412MHz Ant1



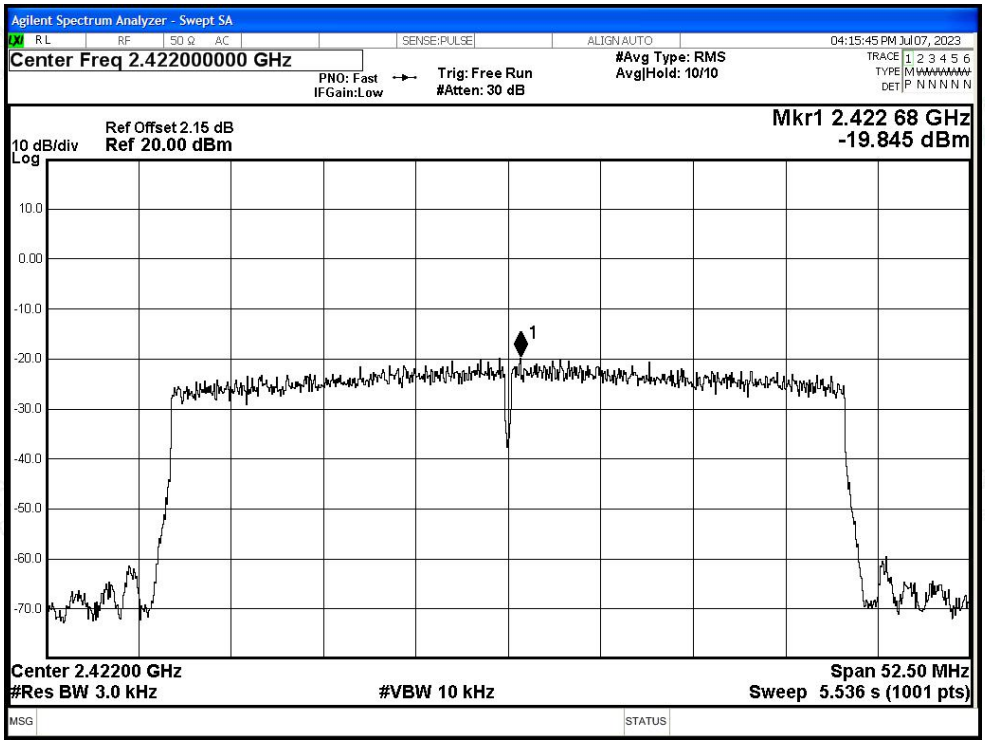
PSD NVNT ax20 2437MHz Ant1



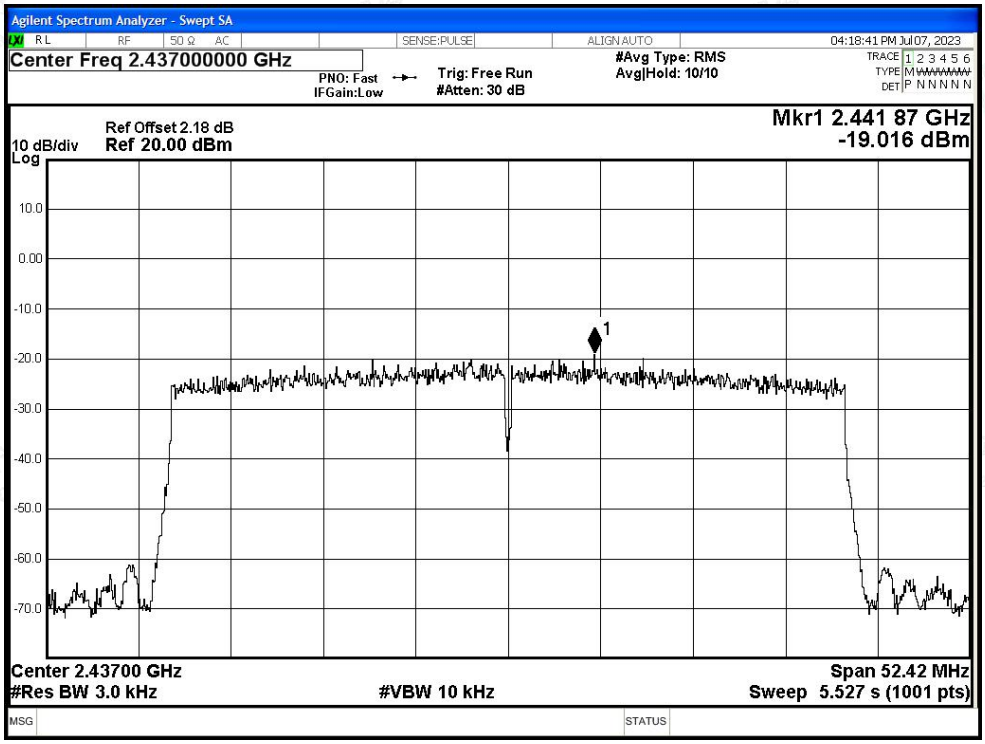
PSD NVNT ax20 2462MHz Ant1



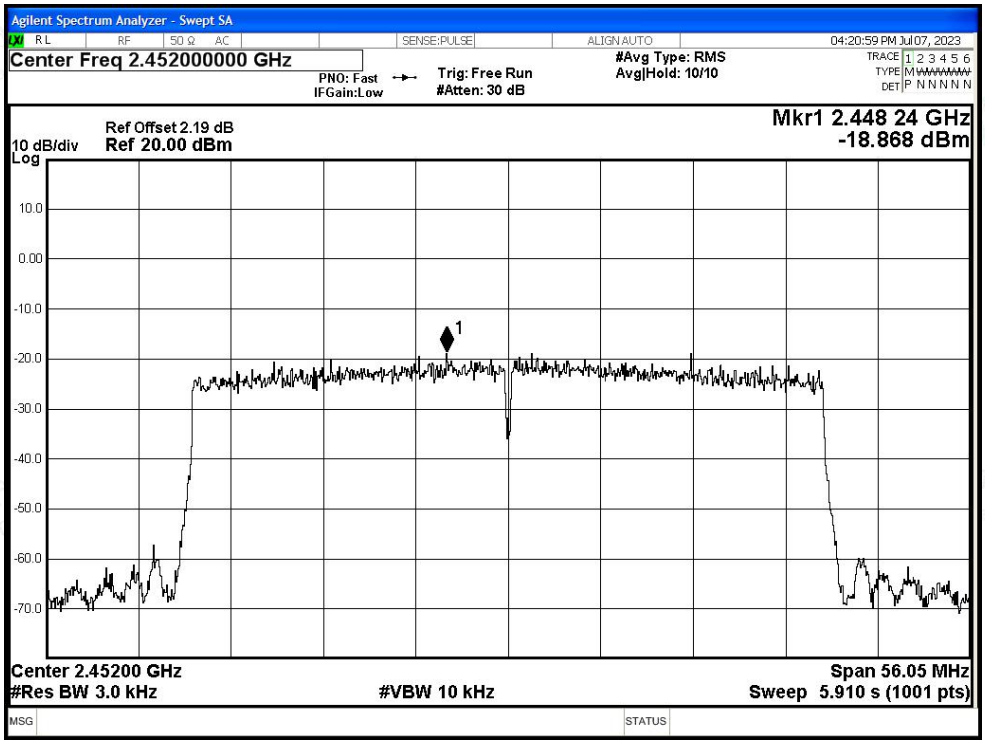
PSD NVNT ax40 2422MHz Ant1



PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1

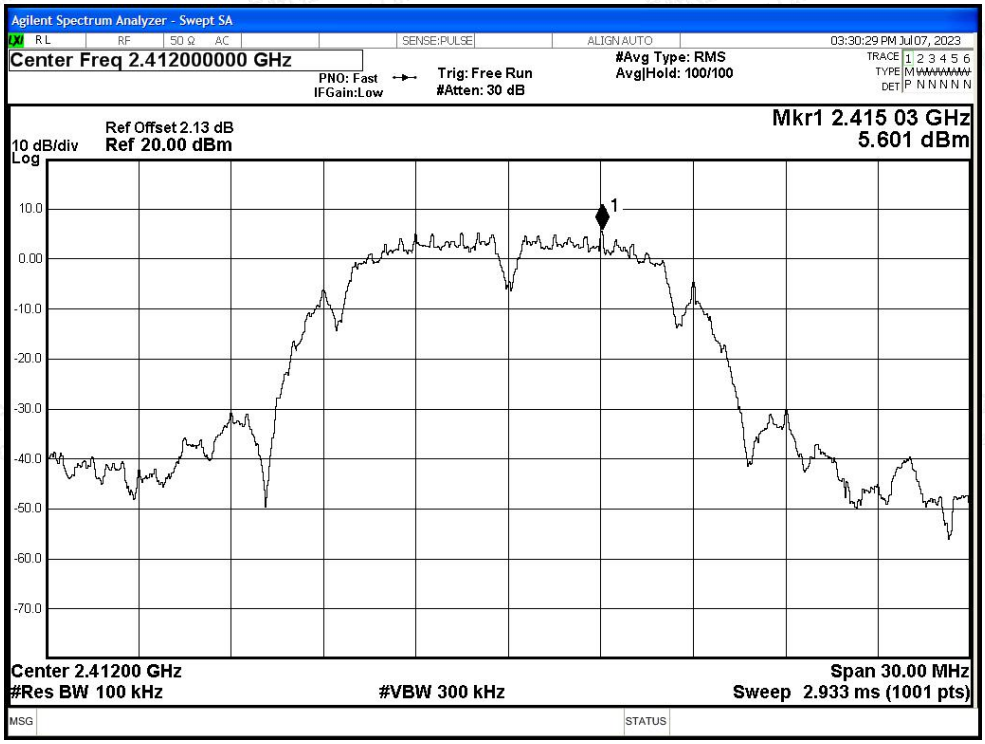
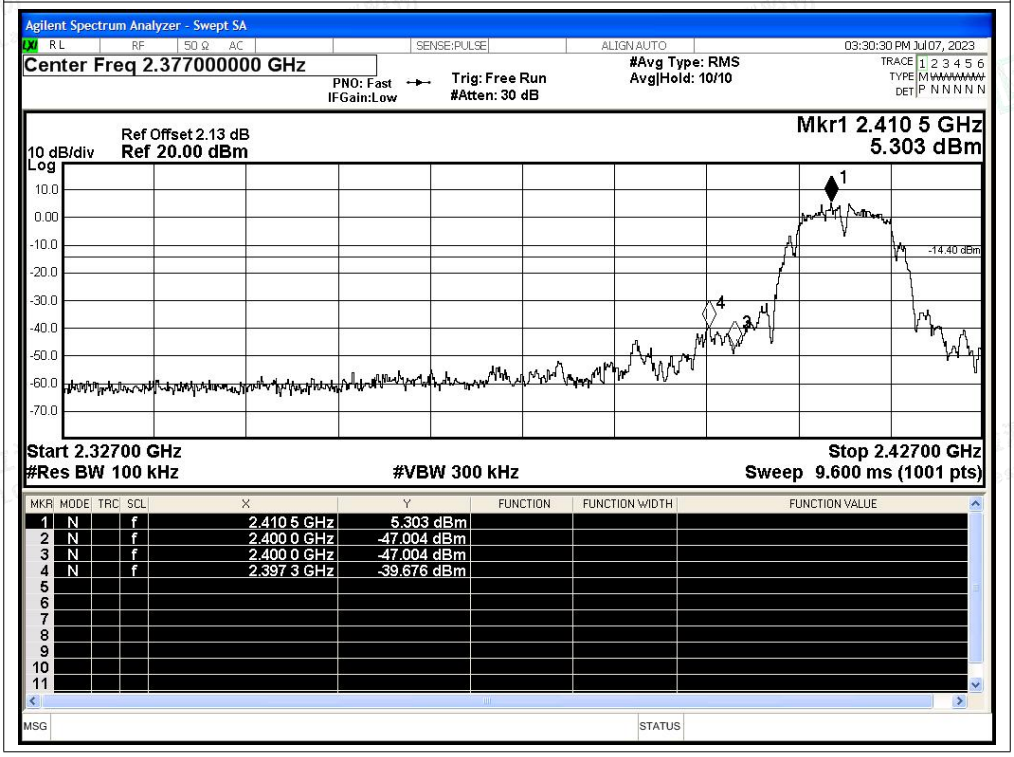


C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.28	-20	Pass
NVNT	b	2462	Ant1	-53.02	-20	Pass
NVNT	g	2412	Ant1	-35.12	-20	Pass
NVNT	g	2462	Ant1	-44.89	-20	Pass
NVNT	n20	2412	Ant1	-30.9	-20	Pass
NVNT	n20	2462	Ant1	-48.13	-20	Pass
NVNT	n40	2422	Ant1	-42.78	-20	Pass
NVNT	n40	2452	Ant1	-47.16	-20	Pass
NVNT	ax20	2412	Ant1	-42.69	-20	Pass
NVNT	ax20	2462	Ant1	-44.51	-20	Pass
NVNT	ax40	2422	Ant1	-44.15	-20	Pass
NVNT	ax40	2452	Ant1	-49.97	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission