



Appendix C

RF Test Data for 2.4G (Conducted Measurement)

Product Name: Three-mode mechanical keyboard Attended

Test Model: MKBI83

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





C.1 -6dB Bandwidth

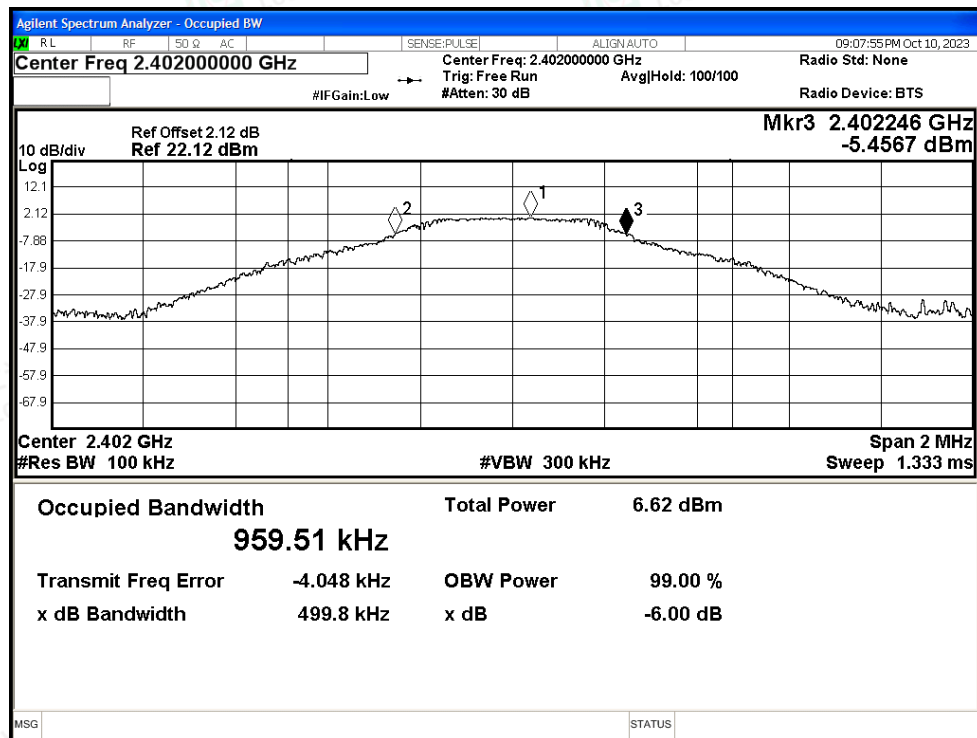
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	Ant1	0.5	≥ 0.5	Pass
NVNT	2.4G	2446	Ant1	0.5	≥ 0.5	Pass
NVNT	2.4G	2479	Ant1	0.5	≥ 0.5	Pass



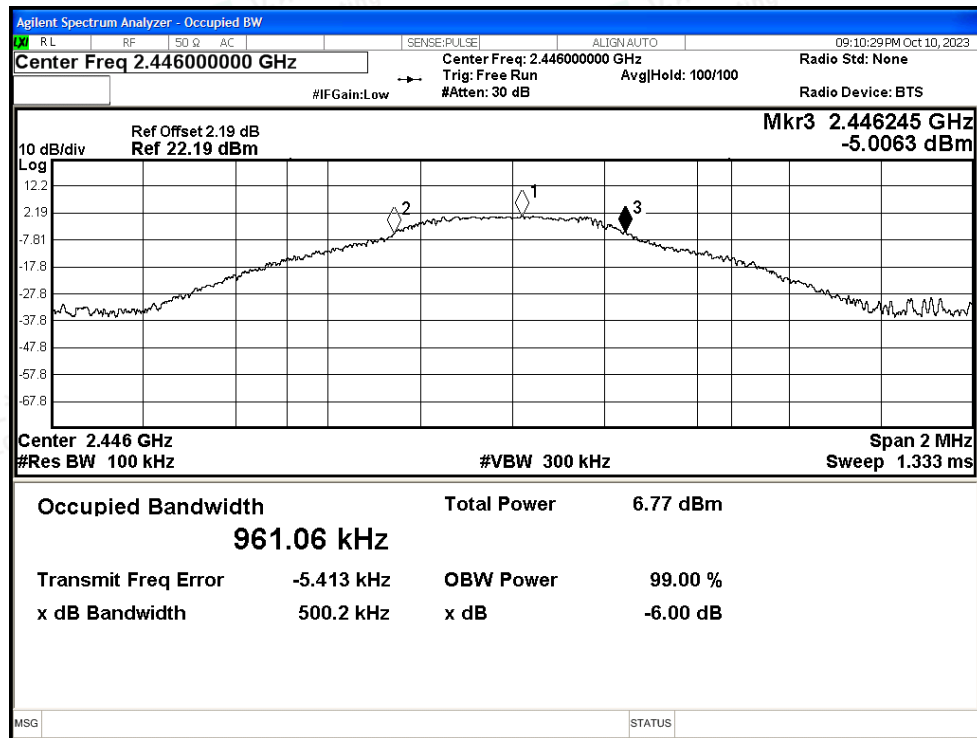


Test Graphs

-6dB Bandwidth NVNT 2.4G 2402MHz Ant1



-6dB Bandwidth NVNT 2.4G 2446MHz Ant1

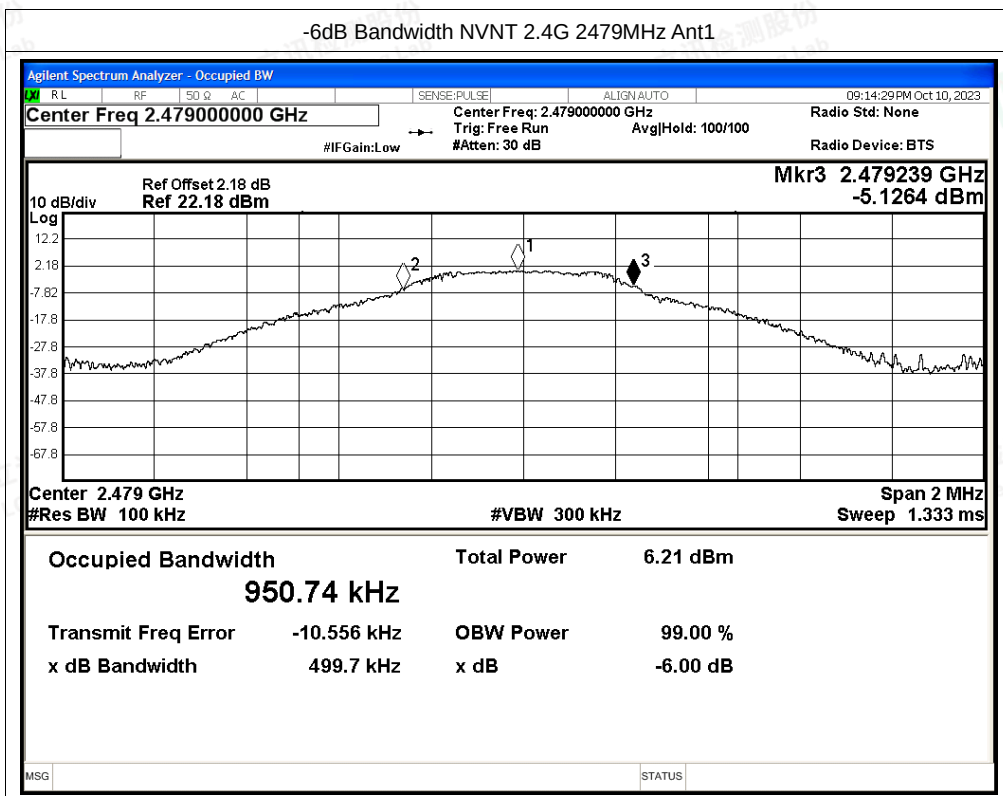


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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2402	Ant1	1.98	30	Pass
NVNT	2.4G	2446	Ant1	2.13	30	Pass
NVNT	2.4G	2479	Ant1	1.58	30	Pass

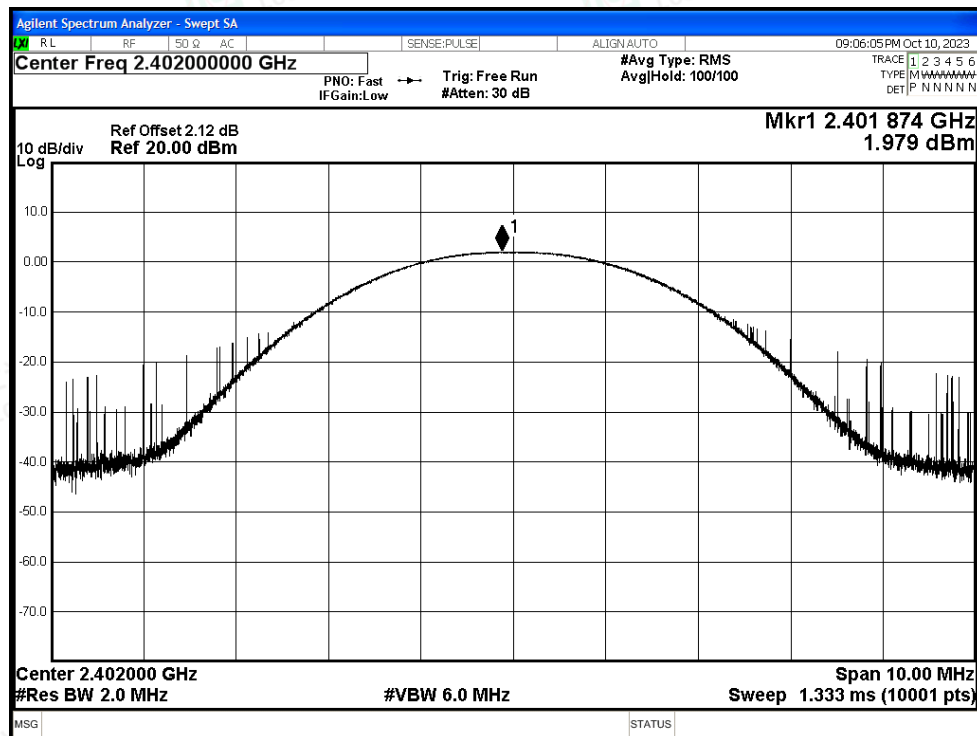


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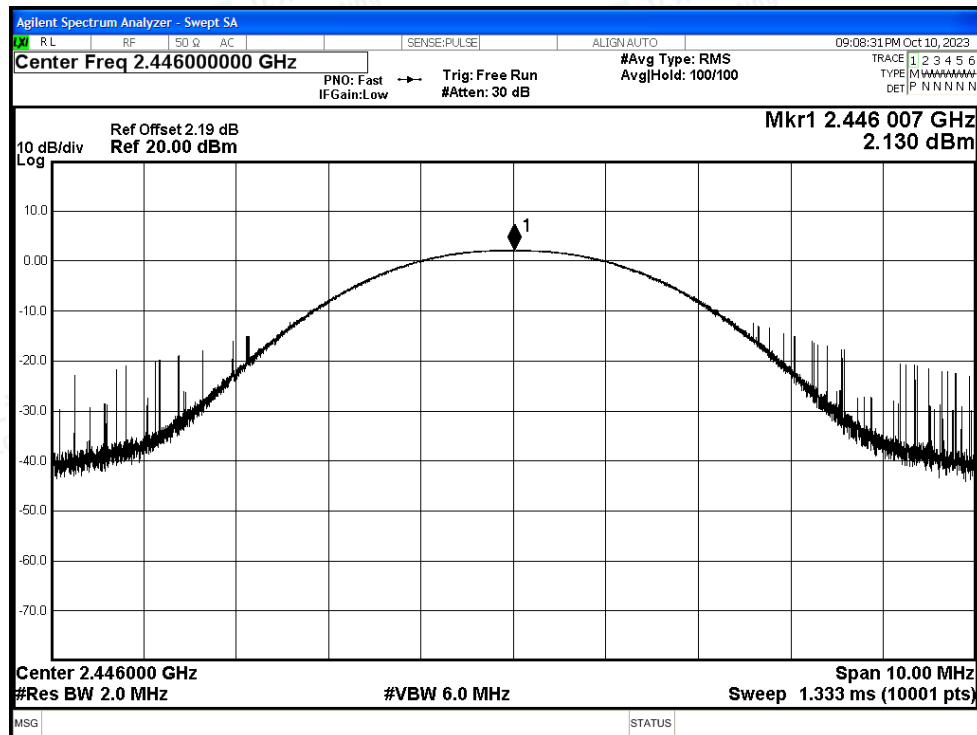


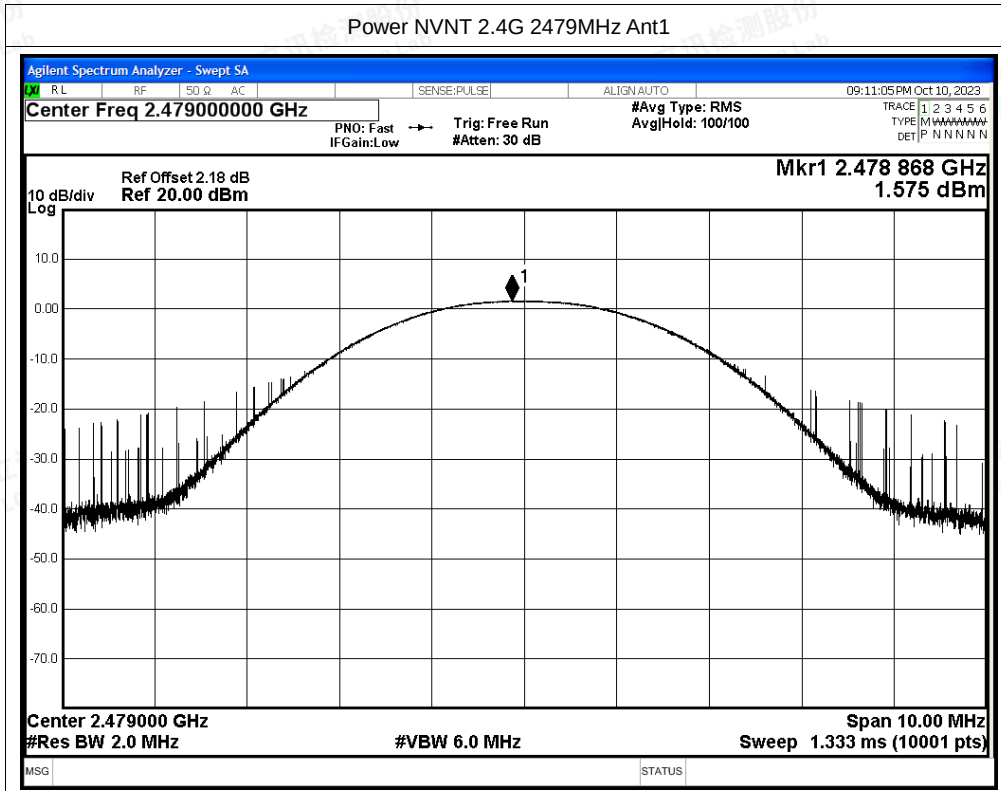
Test Graphs

Power NVNT 2.4G 2402MHz Ant1



Power NVNT 2.4G 2446MHz Ant1







C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2.4G	2402	Ant1	-10.08	8	Pass
NVNT	2.4G	2446	Ant1	-9.91	8	Pass
NVNT	2.4G	2479	Ant1	-10.56	8	Pass

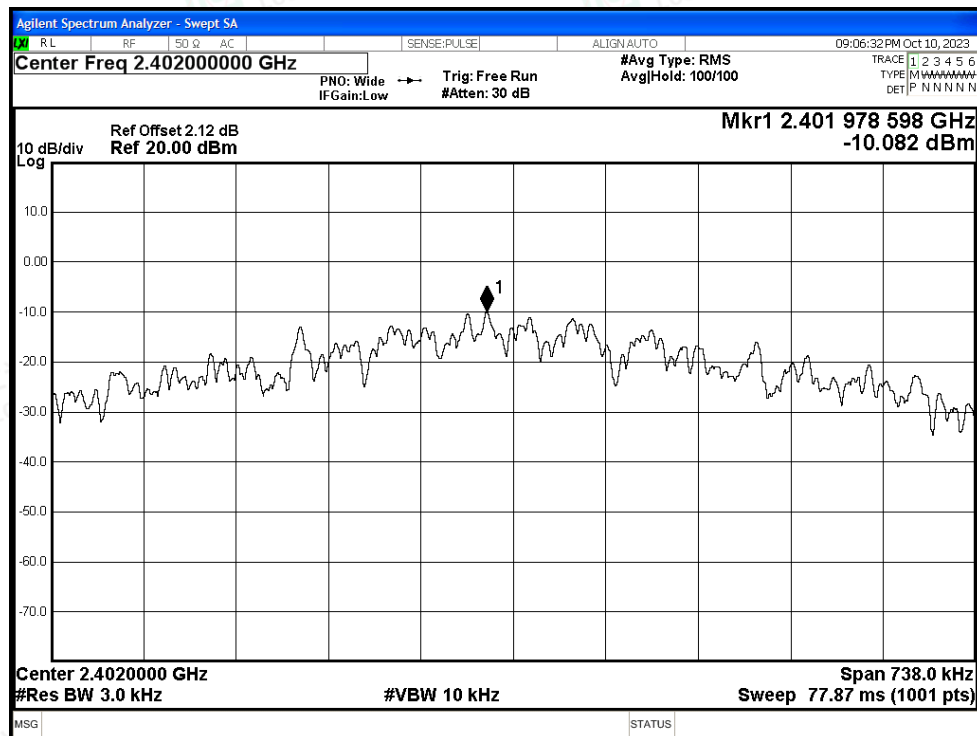


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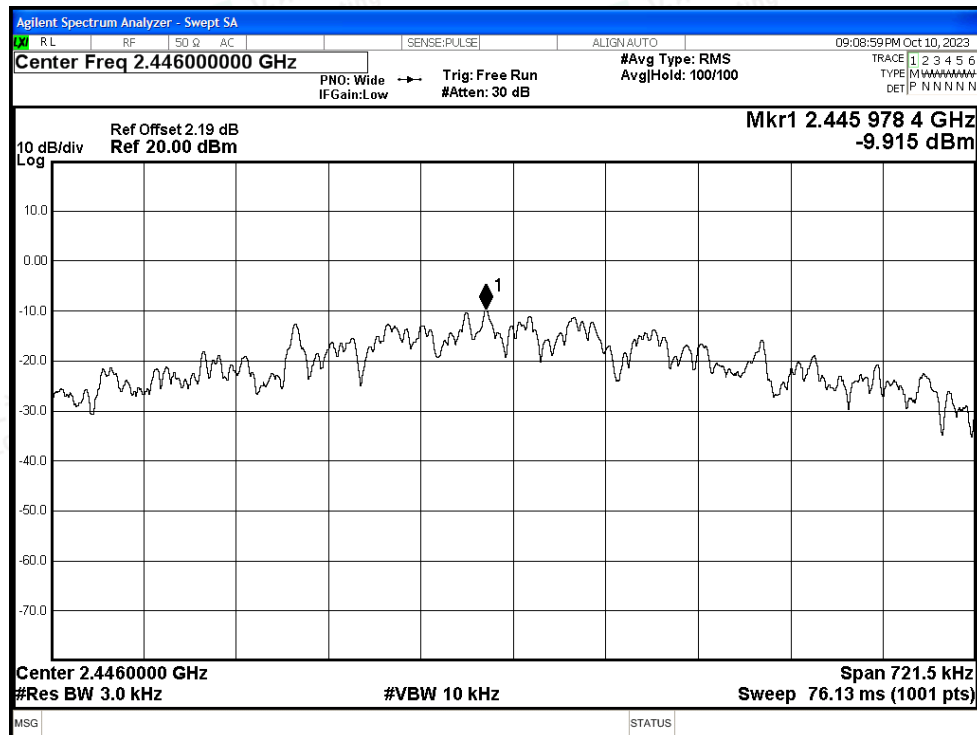


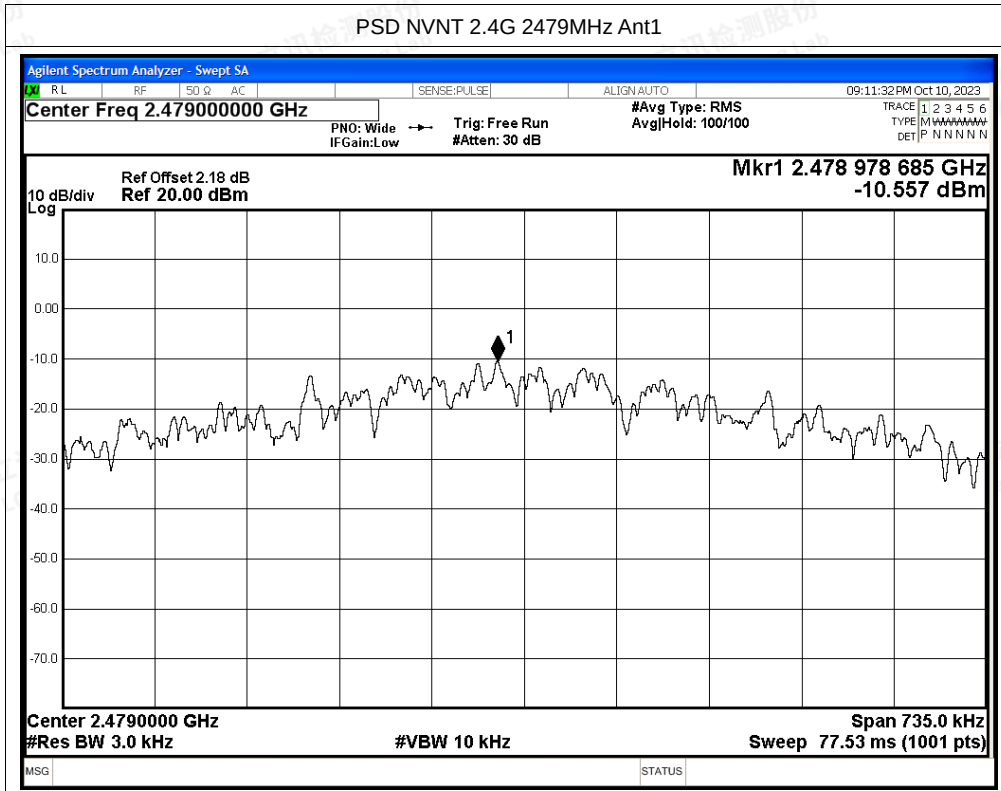
Test Graphs

PSD NVNT 2.4G 2402MHz Ant1



PSD NVNT 2.4G 2446MHz Ant1







C.4 Band Edge

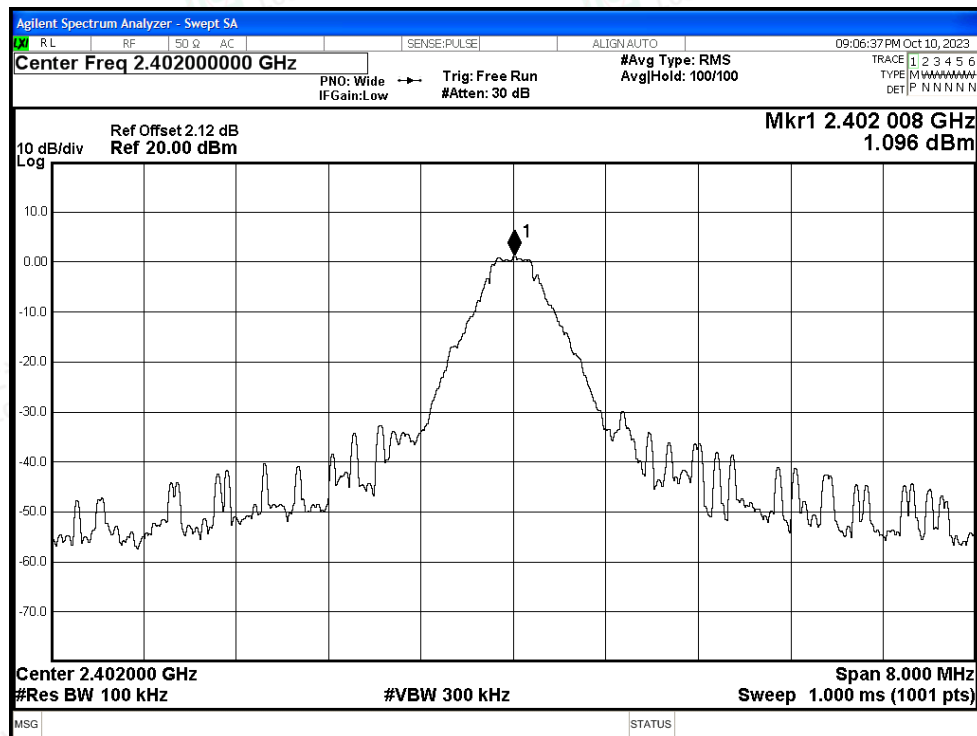
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	-41.59	-20	Pass
NVNT	2.4G	2479	Ant1	-48.76	-20	Pass



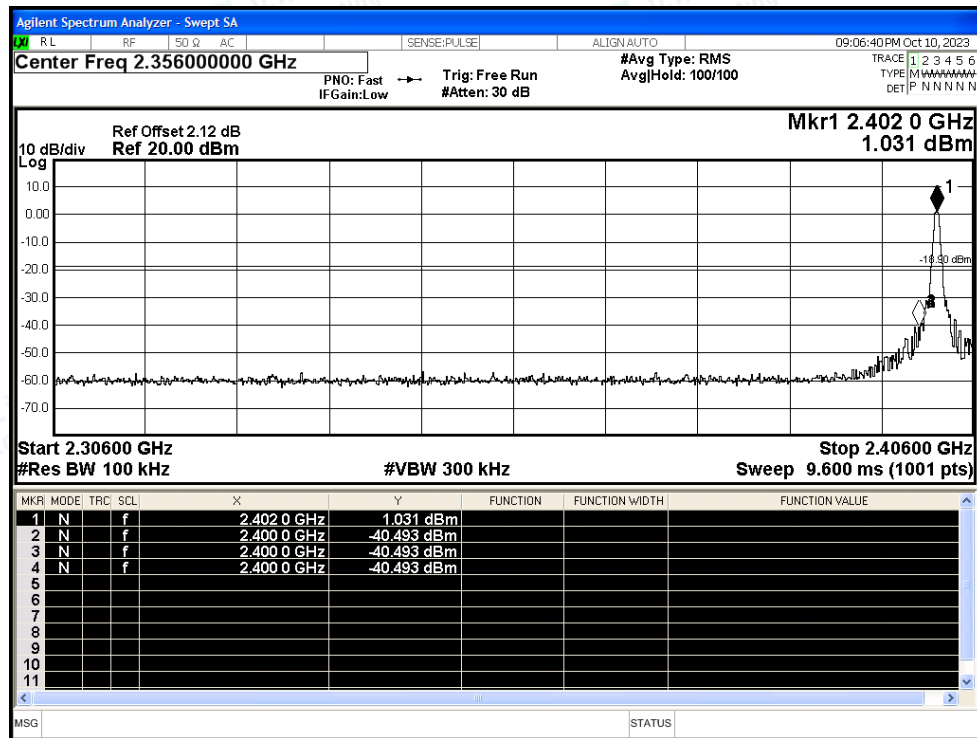


Test Graphs

Band Edge NVNT 2.4G 2402MHz Ant1 Ref



Band Edge NVNT 2.4G 2402MHz Ant1 Emission



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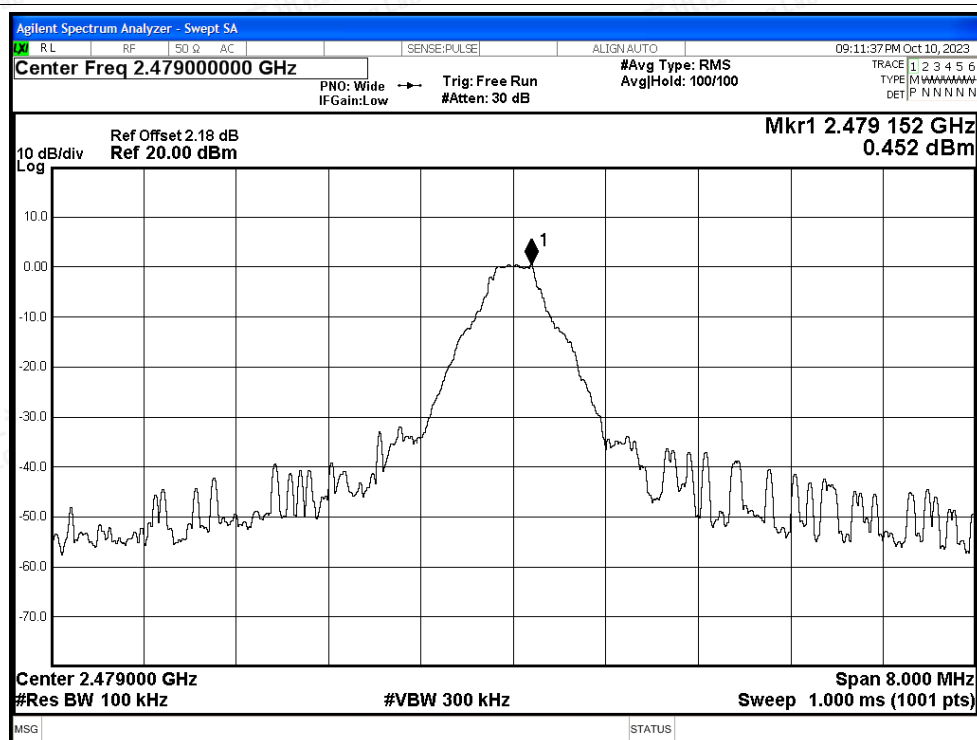
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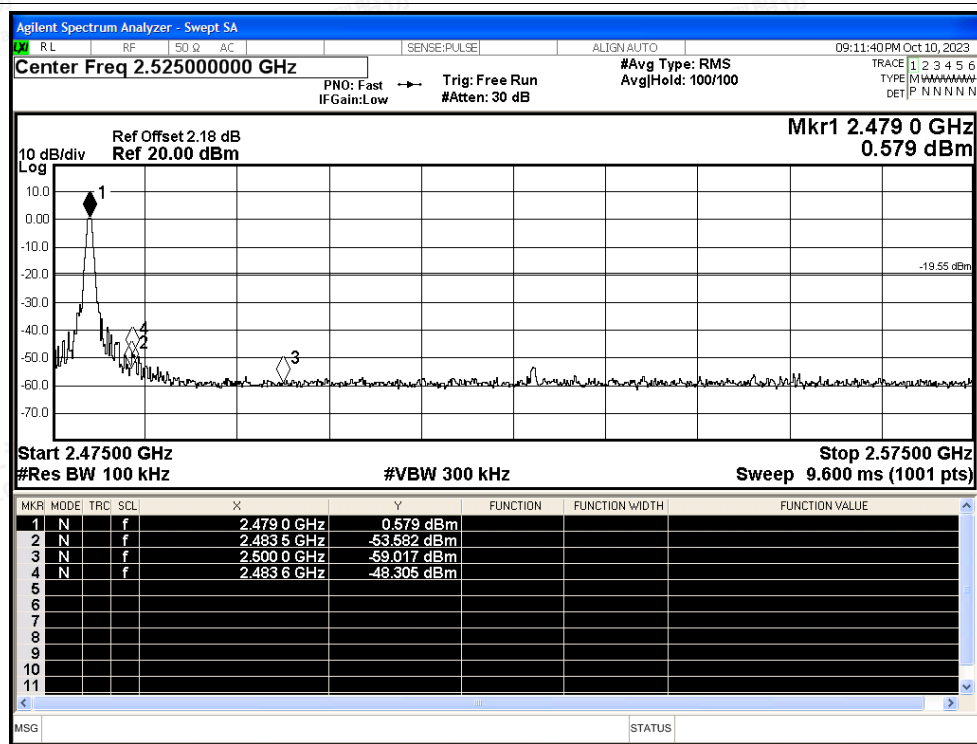
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Band Edge NVNT 2.4G 2479MHz Ant1 Ref



Band Edge NVNT 2.4G 2479MHz Ant1 Emission



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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2402	Ant1	-37.37	-20	Pass
NVNT	2.4G	2446	Ant1	-39.64	-20	Pass
NVNT	2.4G	2479	Ant1	-40.69	-20	Pass

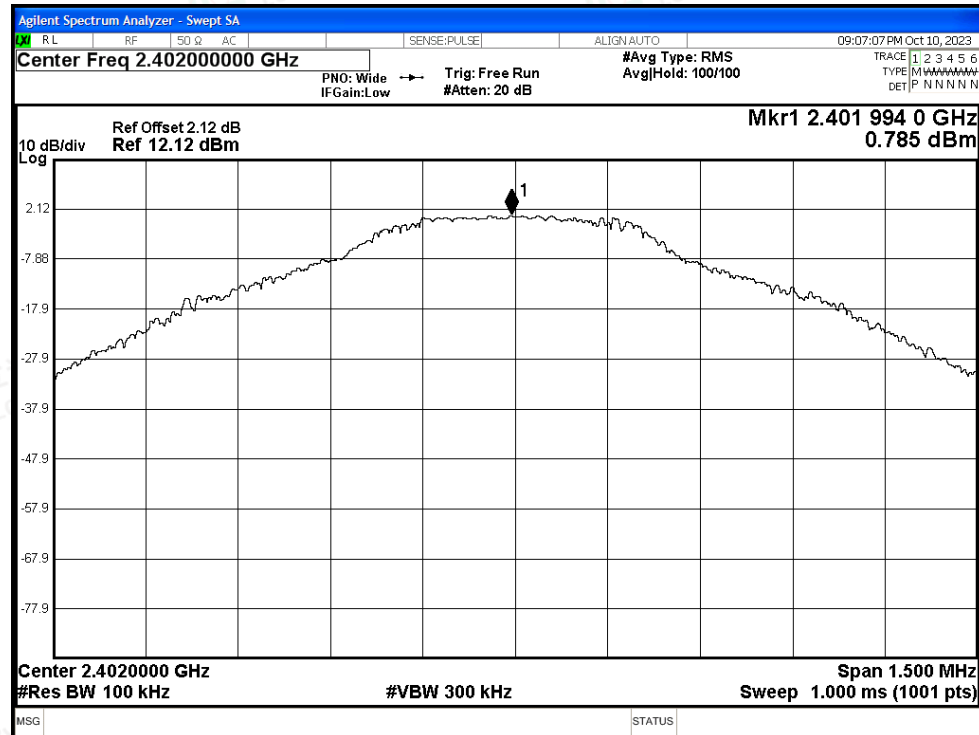


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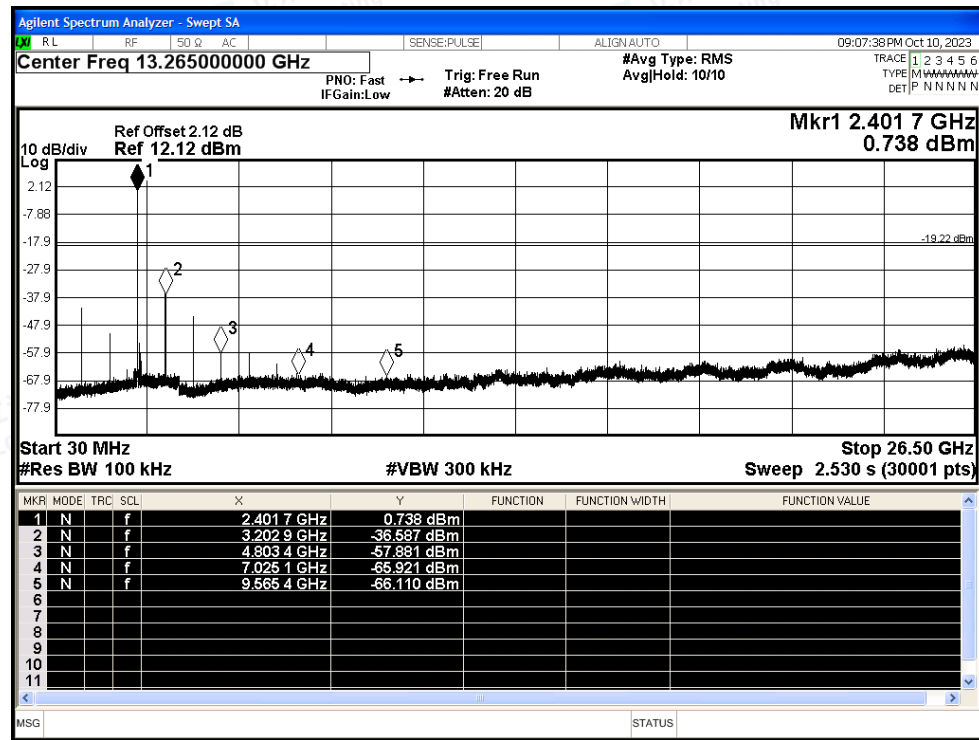


Test Graphs

Tx. Spurious NVNT 2.4G 2402MHz Ant1 Ref

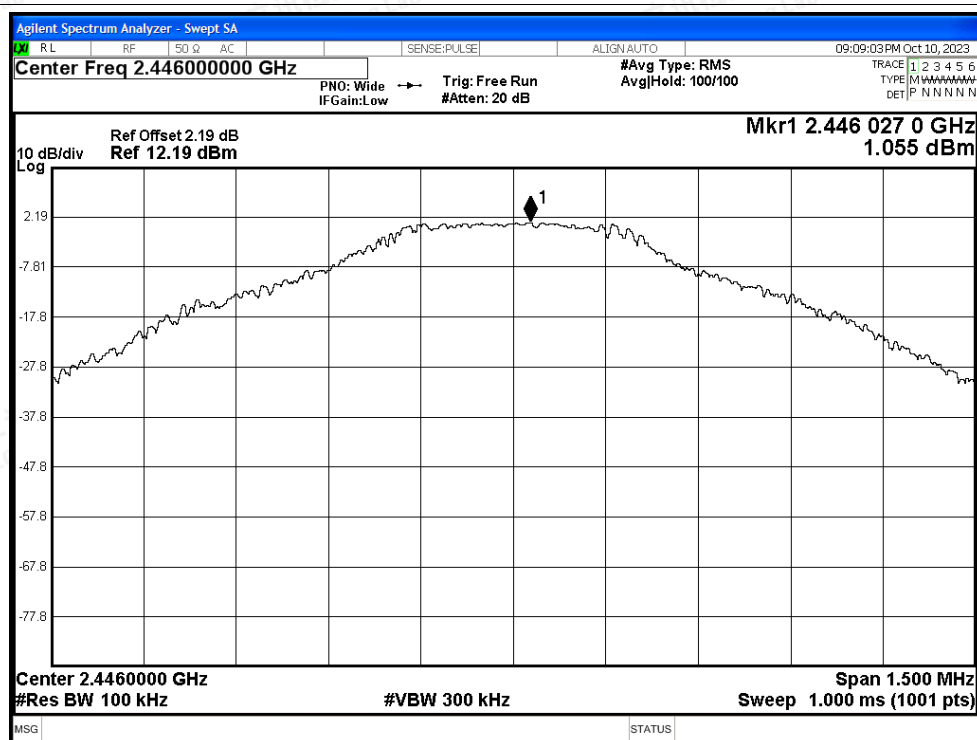


Tx. Spurious NVNT 2.4G 2402MHz Ant1 Emission

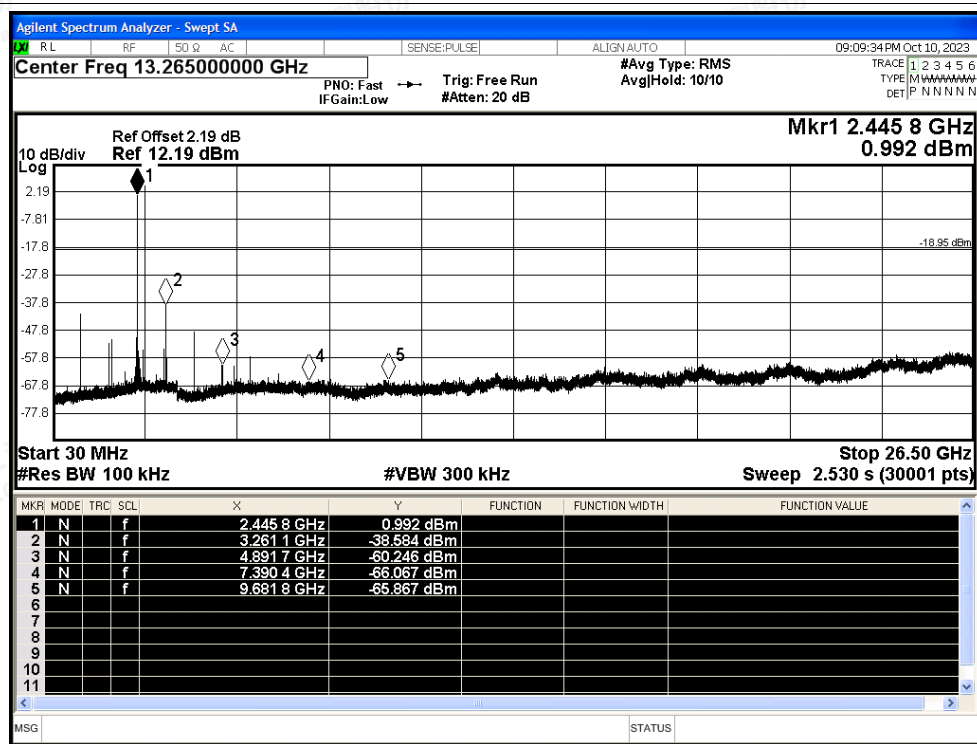




Tx. Spurious NVNT 2.4G 2446MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2446MHz Ant1 Emission



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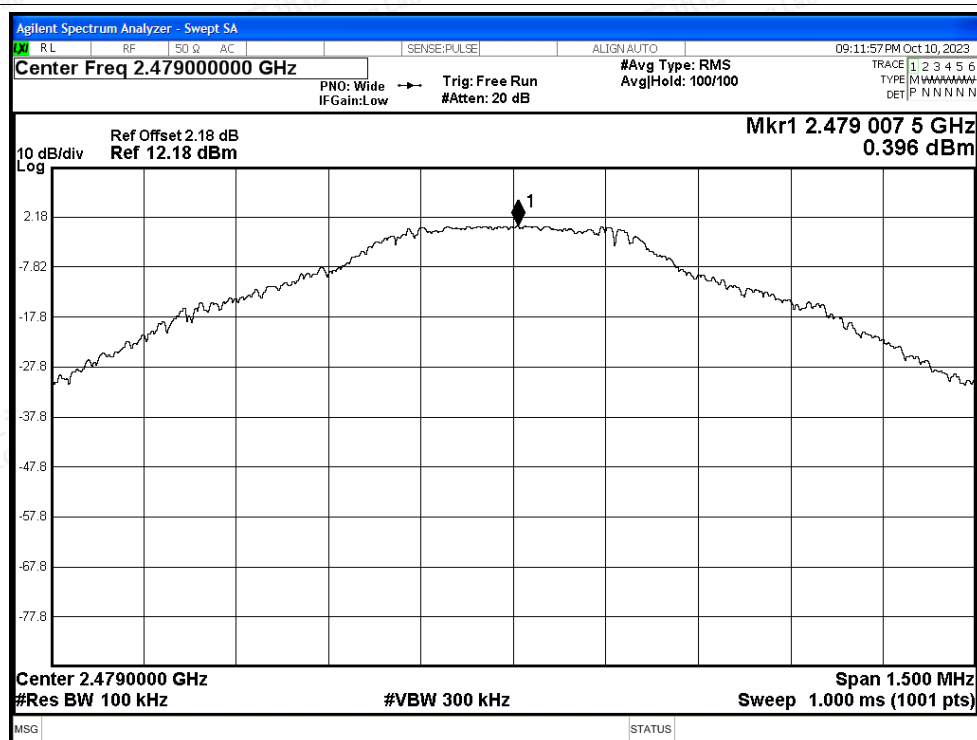
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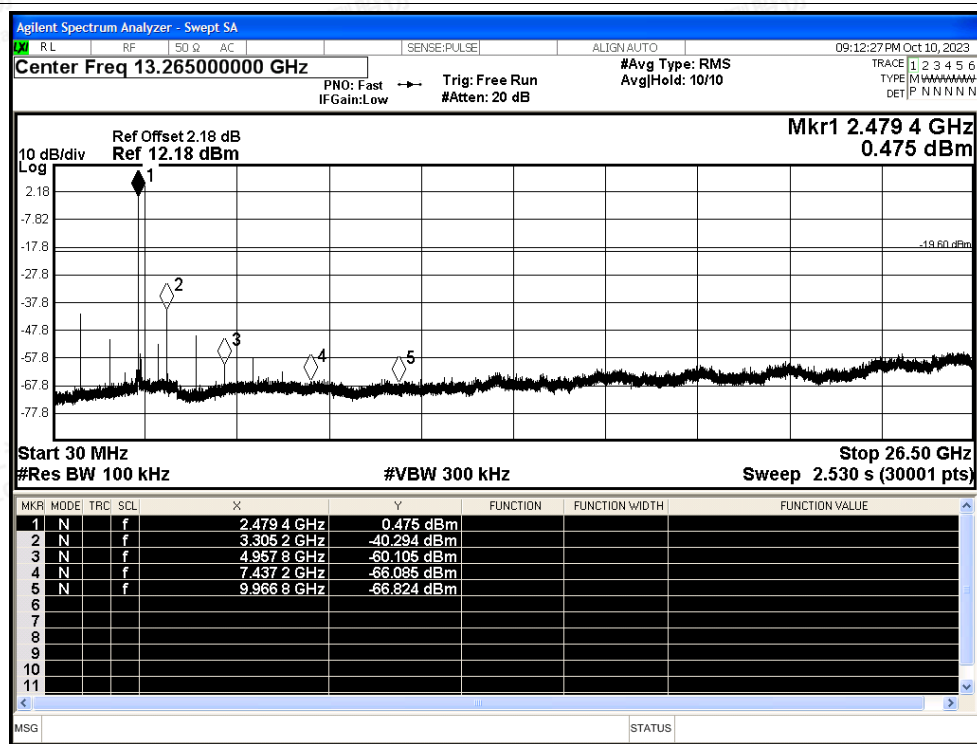
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Tx. Spurious NVNT 2.4G 2479MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2479MHz Ant1 Emission





C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	Ant1	90.3	0.44	0.52
NVNT	2.4G	2446	Ant1	90.32	0.44	0.52
NVNT	2.4G	2479	Ant1	90.32	0.44	0.52

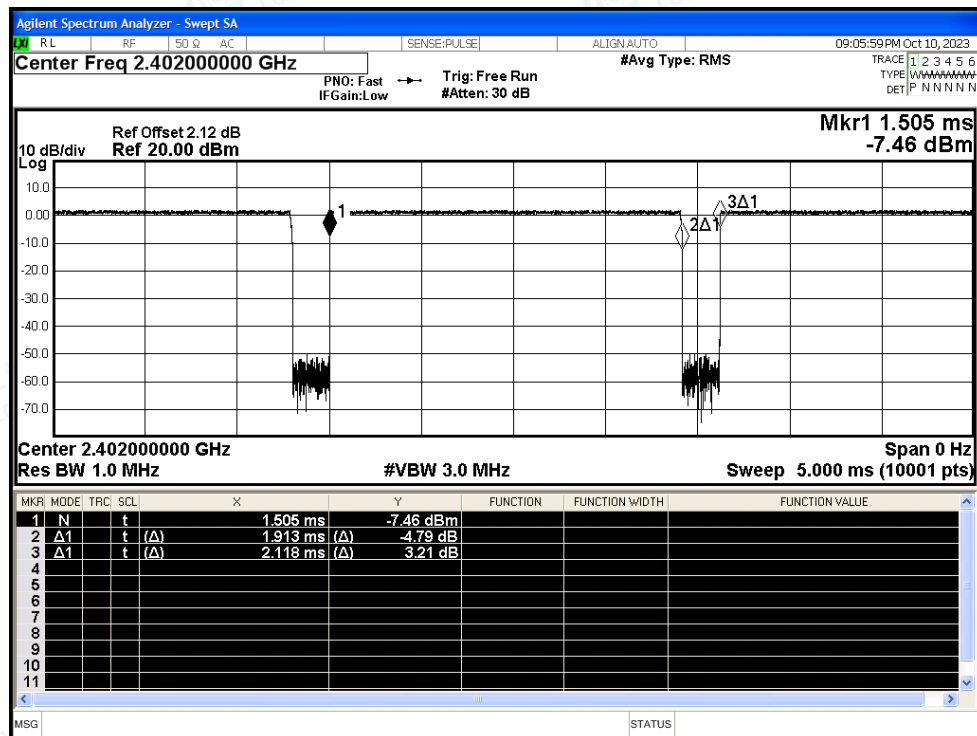


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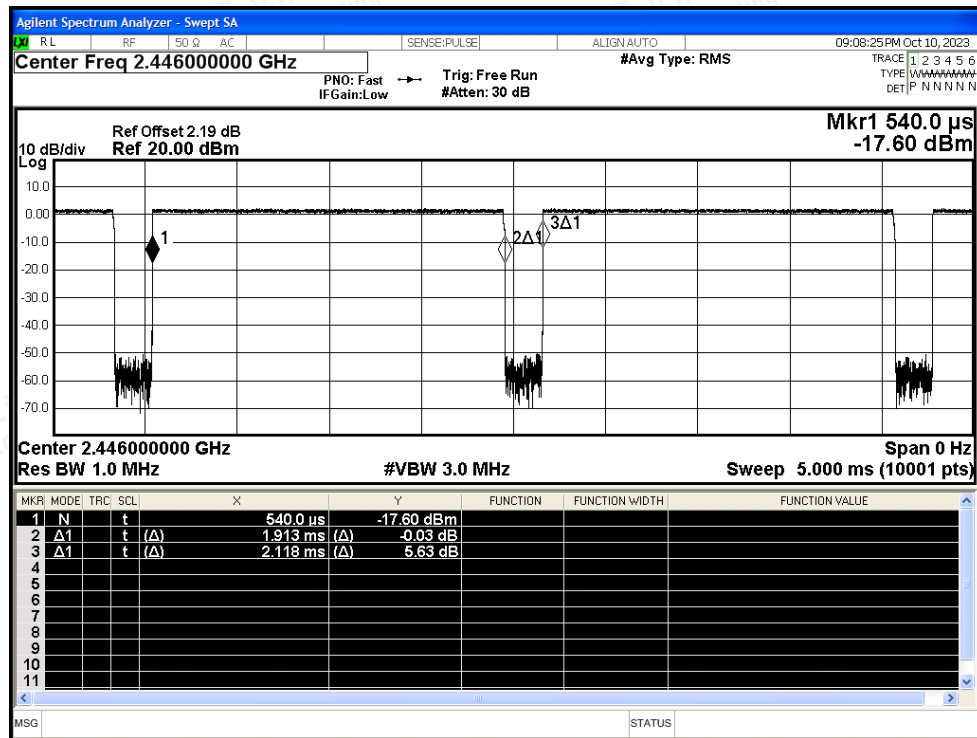


Test Graphs

Duty Cycle NVNT 2.4G 2402MHz Ant1



Duty Cycle NVNT 2.4G 2446MHz Ant1

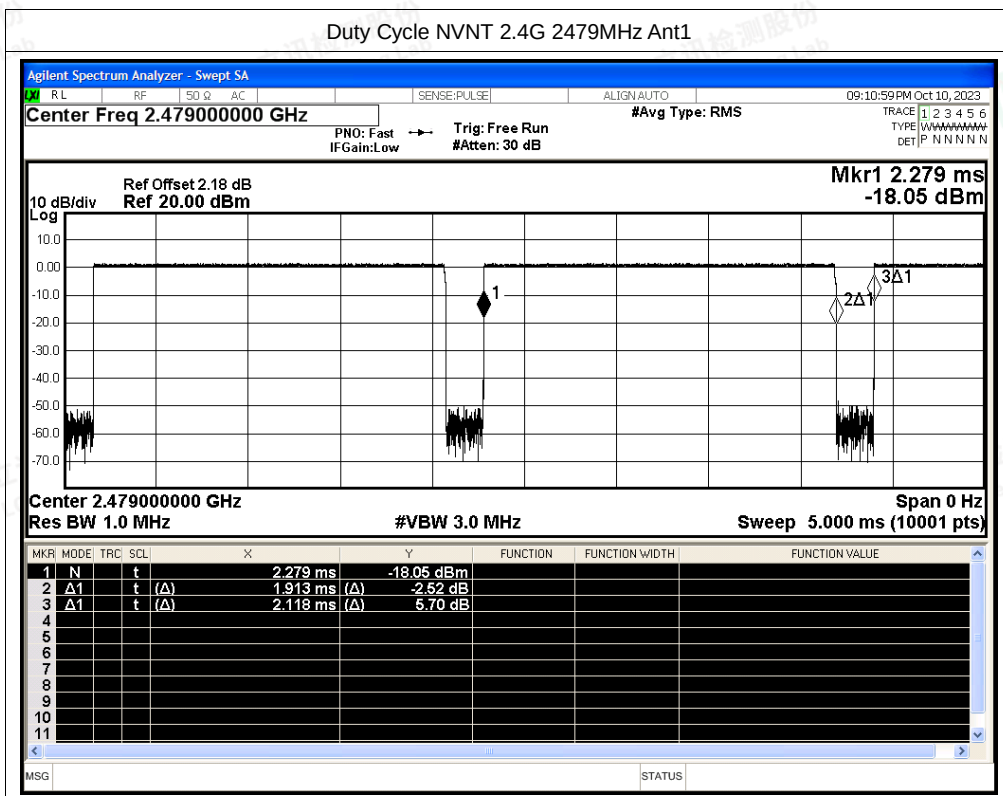


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C.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	2.4G	2402	Ant1	2310	-50.88	2	46.38	Peak	74	Pass
NVNT	2.4G	2402	Ant1	2310	-57.58	2	39.68	Average	54	Pass
NVNT	2.4G	2402	Ant1	2389.488	-43.9	2	53.36	Peak	74	Pass
NVNT	2.4G	2402	Ant1	2353.776	-56.41	2	40.85	Average	54	Pass
NVNT	2.4G	2402	Ant1	2390	-49.72	2	47.54	Peak	74	Pass
NVNT	2.4G	2402	Ant1	2390	-56.94	2	40.32	Average	54	Pass
NVNT	2.4G	2479	Ant1	2483.5	-45.72	2	51.54	Peak	74	Pass
NVNT	2.4G	2479	Ant1	2483.5	-52.49	2	44.77	Average	54	Pass
NVNT	2.4G	2479	Ant1	2484.675	-32.55	2	64.71	Peak	74	Pass
NVNT	2.4G	2479	Ant1	2500	-50.8	2	46.46	Peak	74	Pass
NVNT	2.4G	2479	Ant1	2500	-56.96	2	40.3	Average	54	Pass

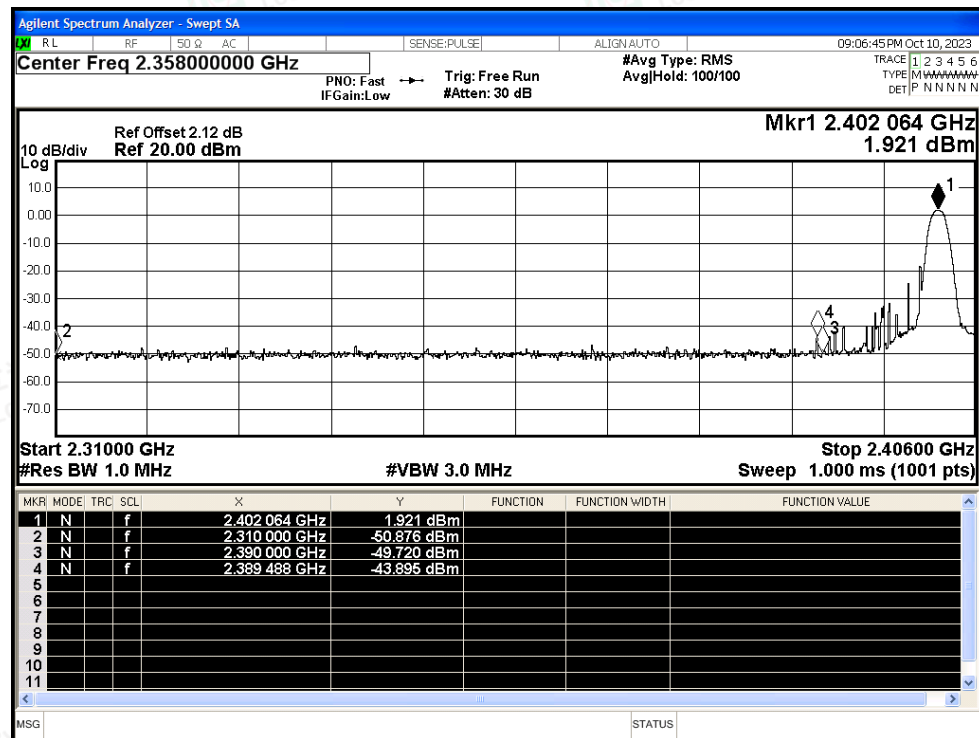


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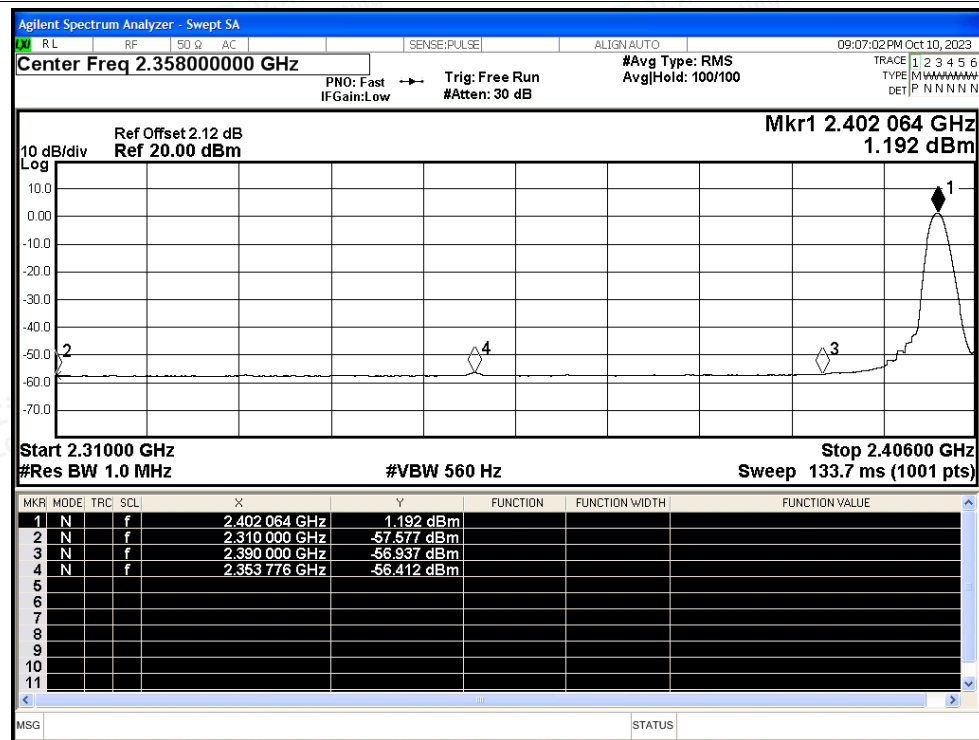


Test Graphs

Restrict Band NVNT 2.4G 2402MHz Ant1 Peak



Restrict Band NVNT 2.4G 2402MHz Ant1 Average



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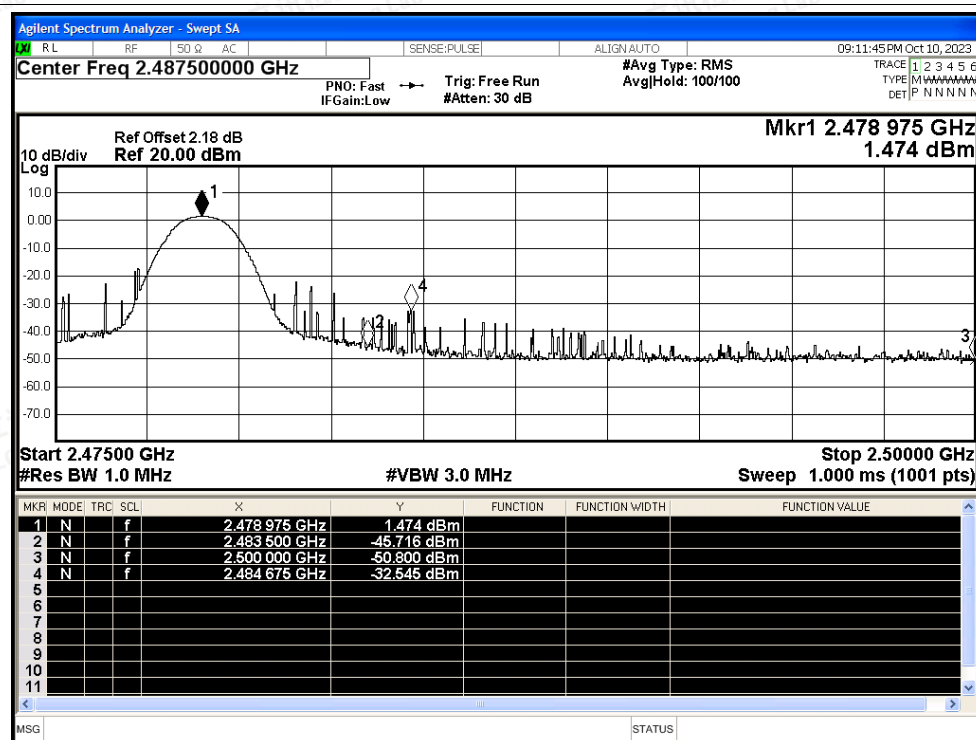
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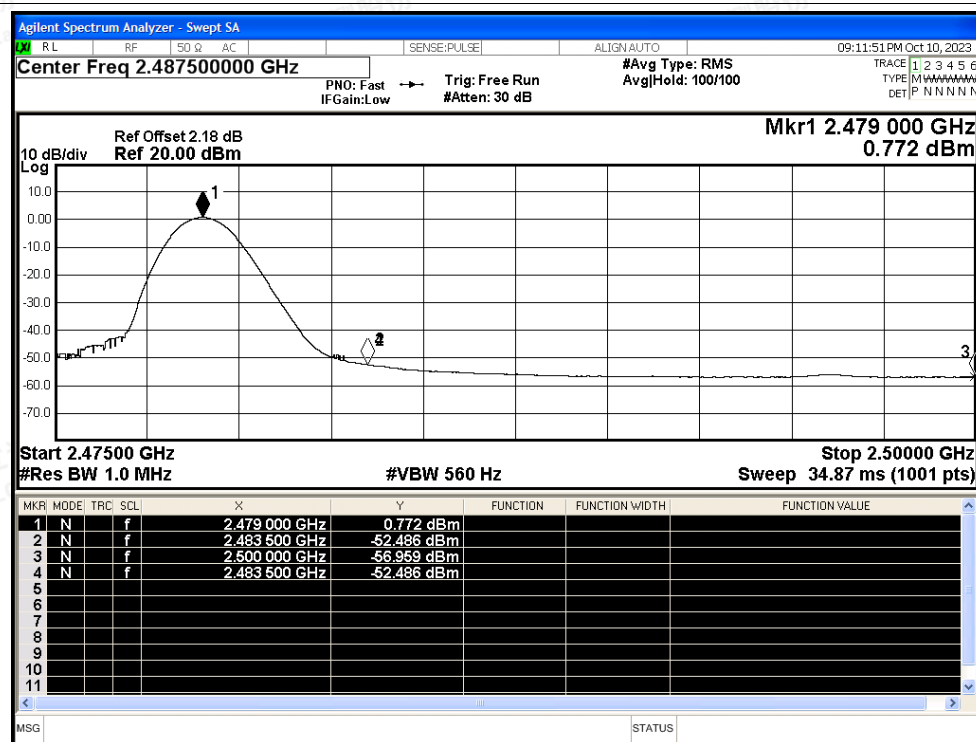
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Restrict Band NVNT 2.4G 2479MHz Ant1 Peak



Restrict Band NVNT 2.4G 2479MHz Ant1 Average



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