



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Remote Control

Test Model: U-BT800-VY-SXW

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.663	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.662	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.653	≥ 0.5	Pass

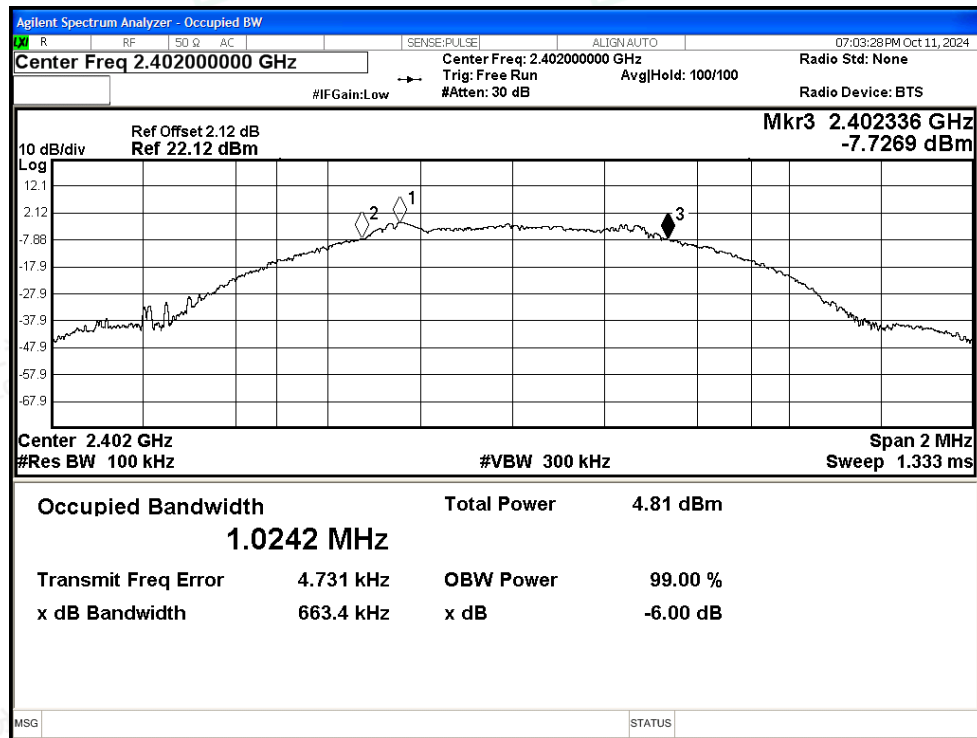


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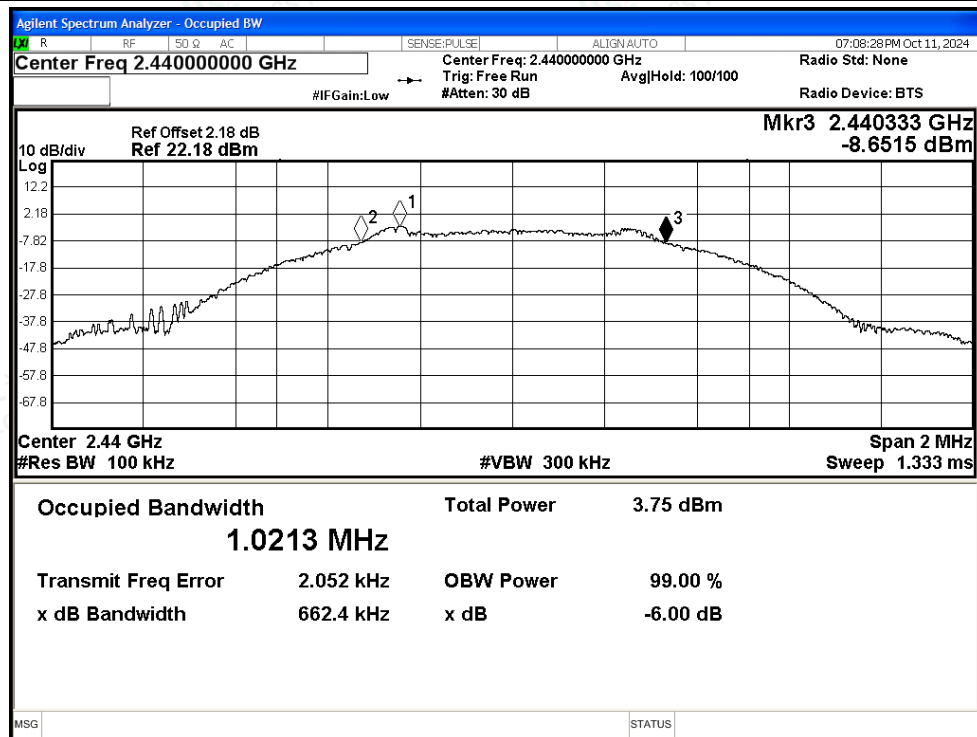


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

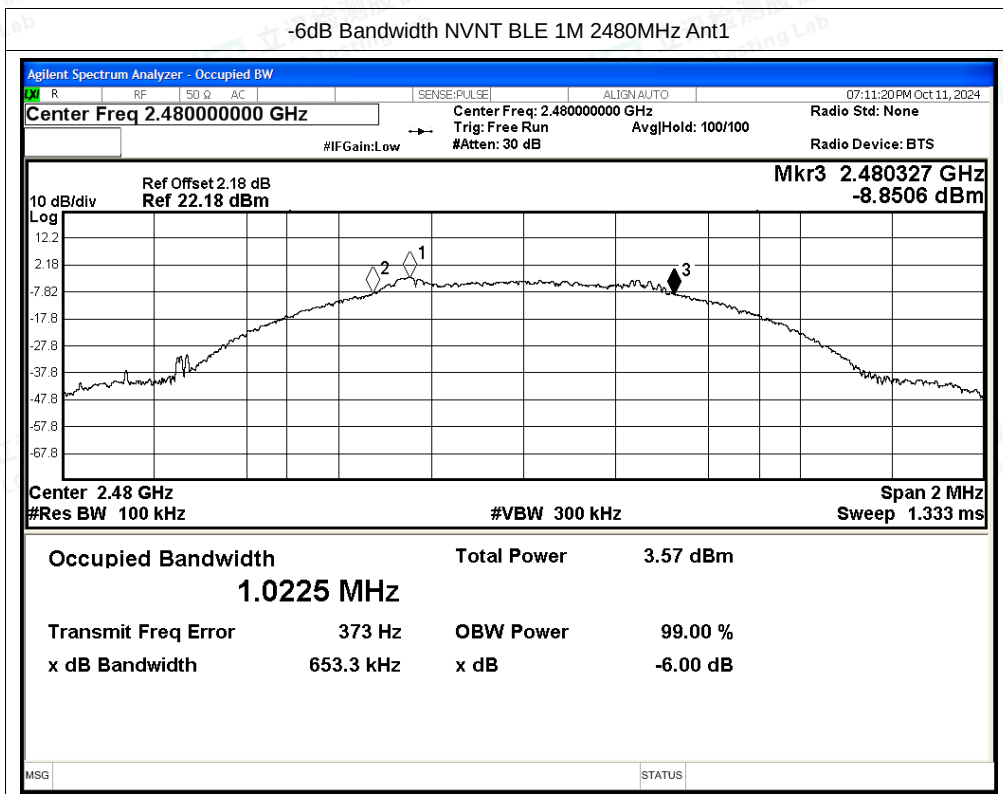


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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.06	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.07	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.19	30	Pass

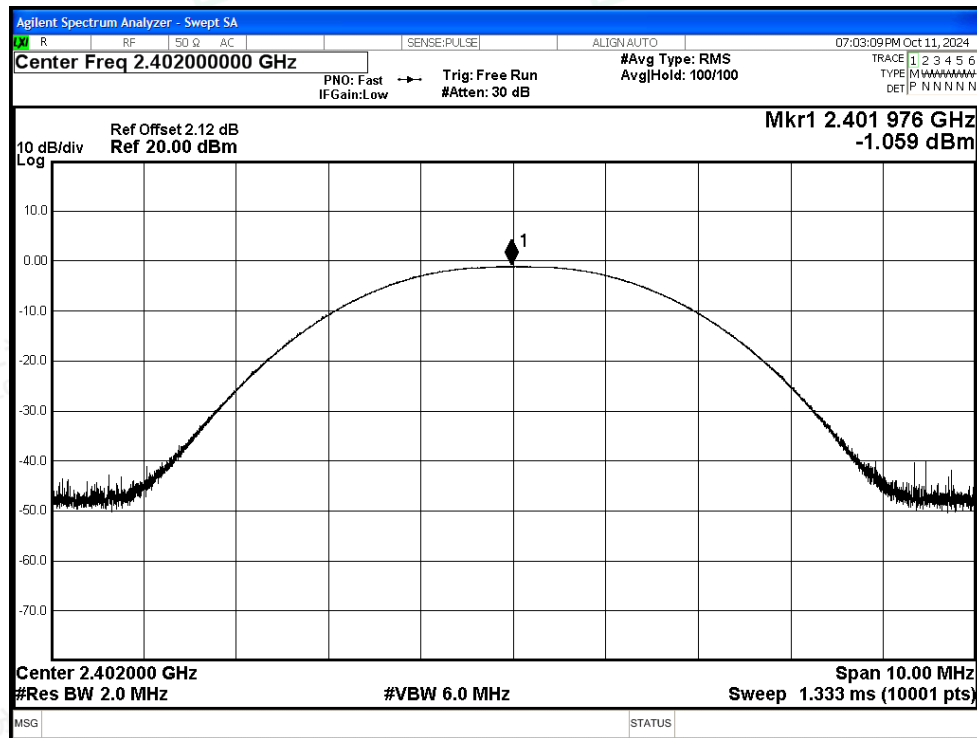


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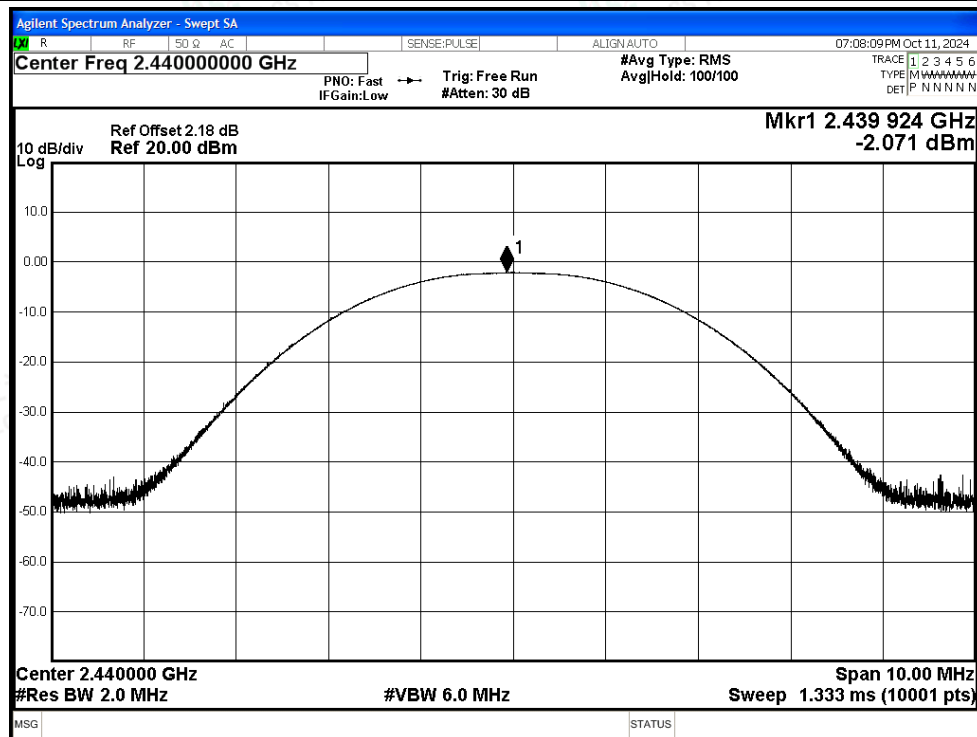


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

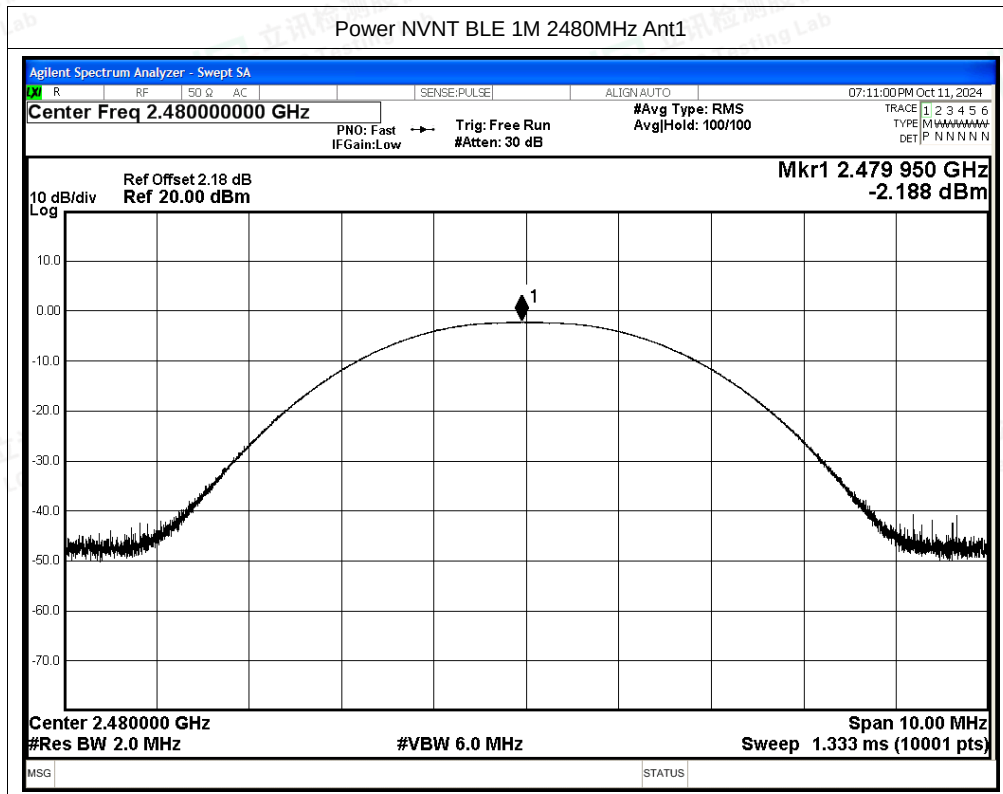


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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.51	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.62	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.89	8	Pass

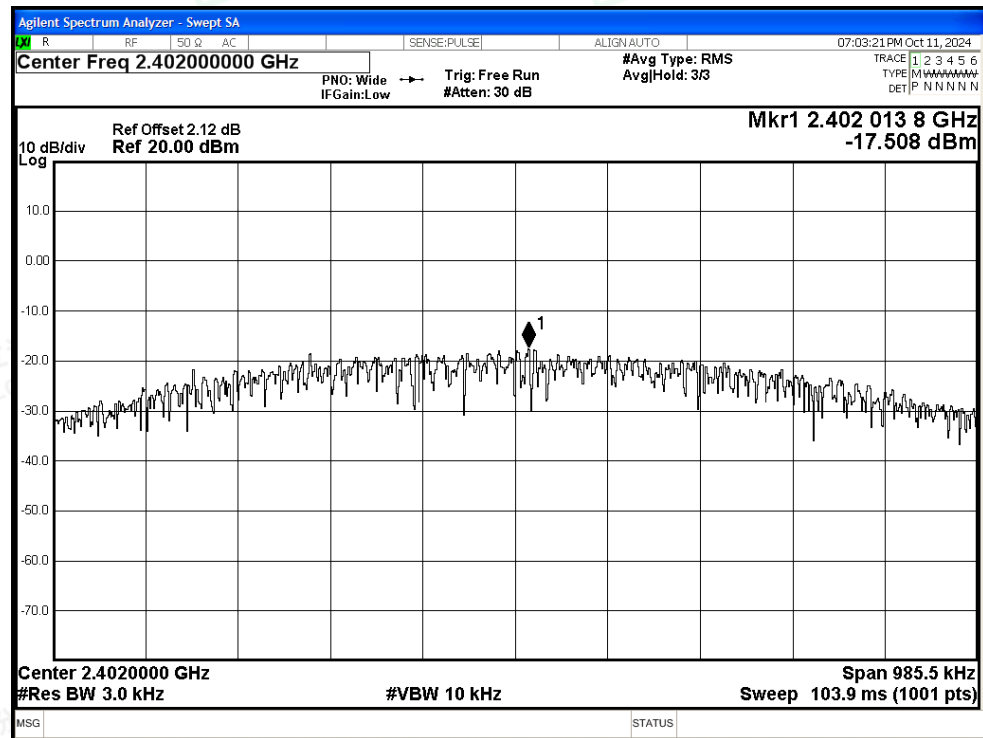


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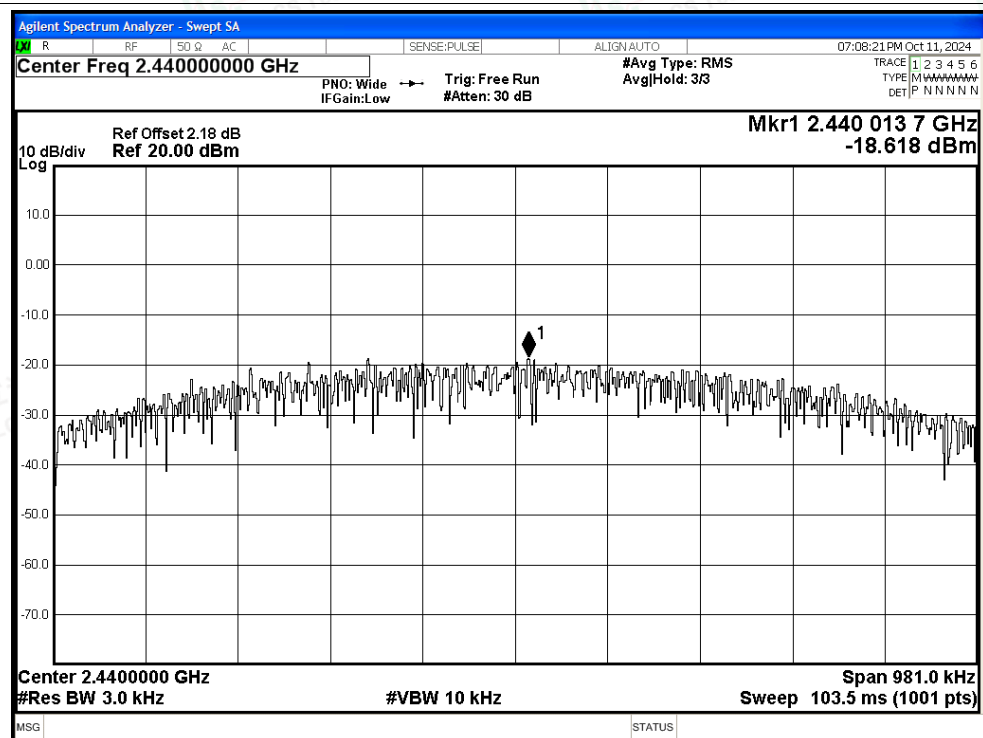


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

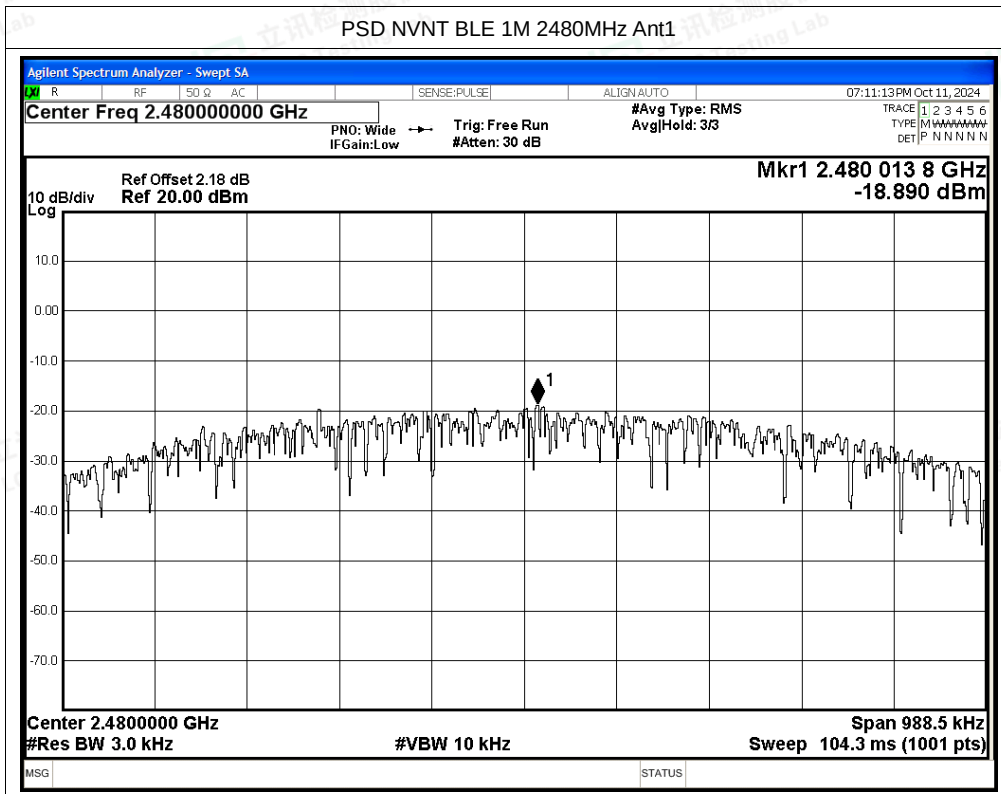


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.02	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.92	-20	Pass

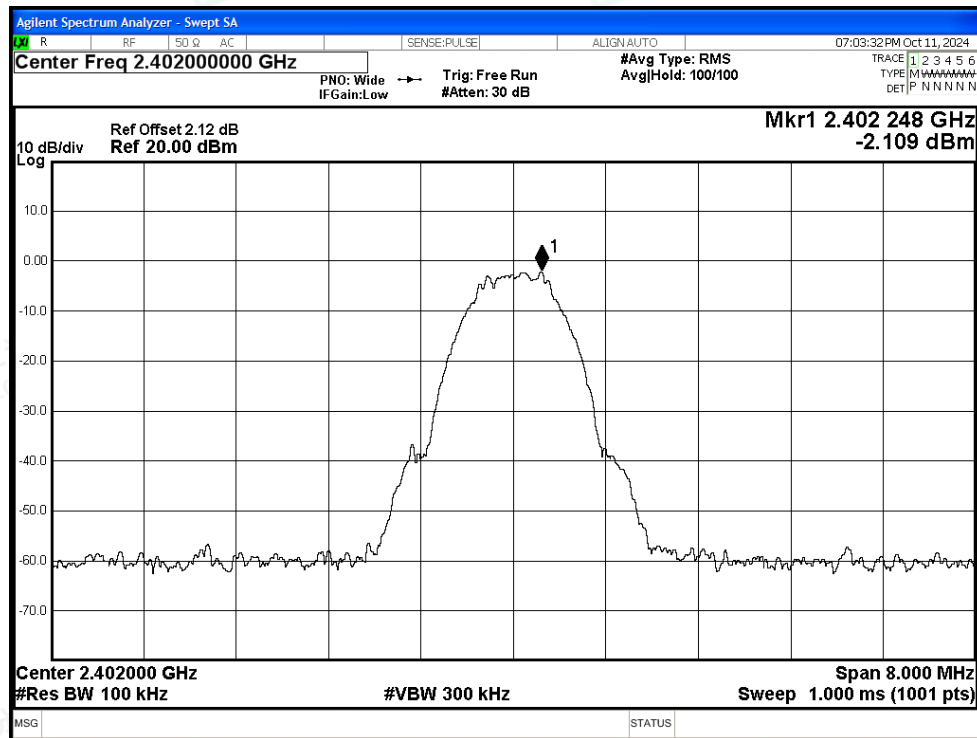


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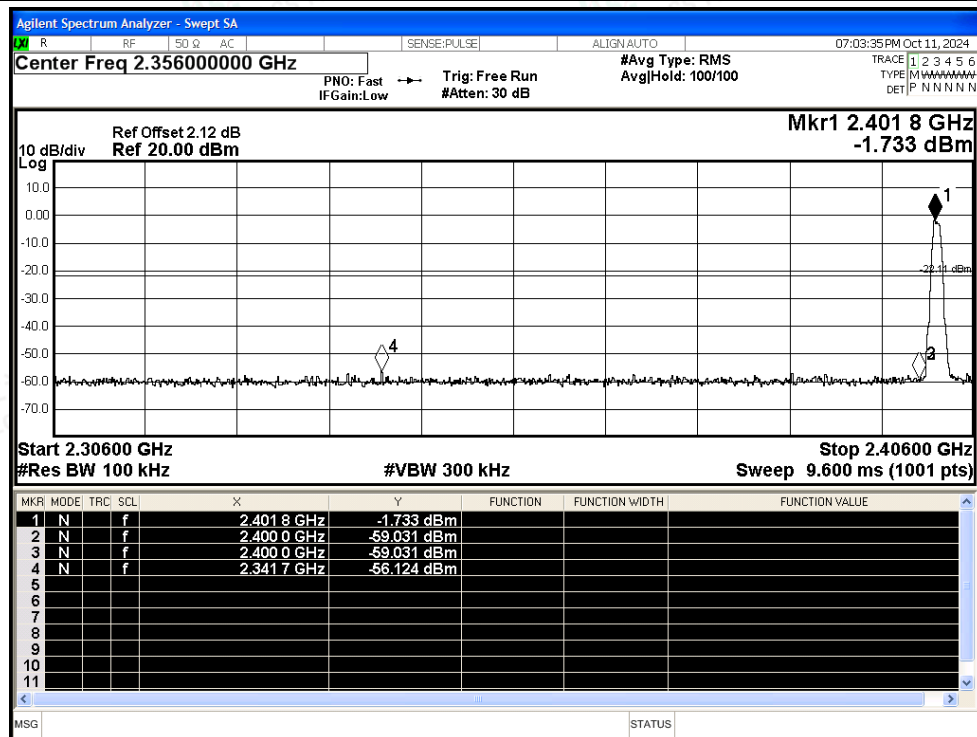


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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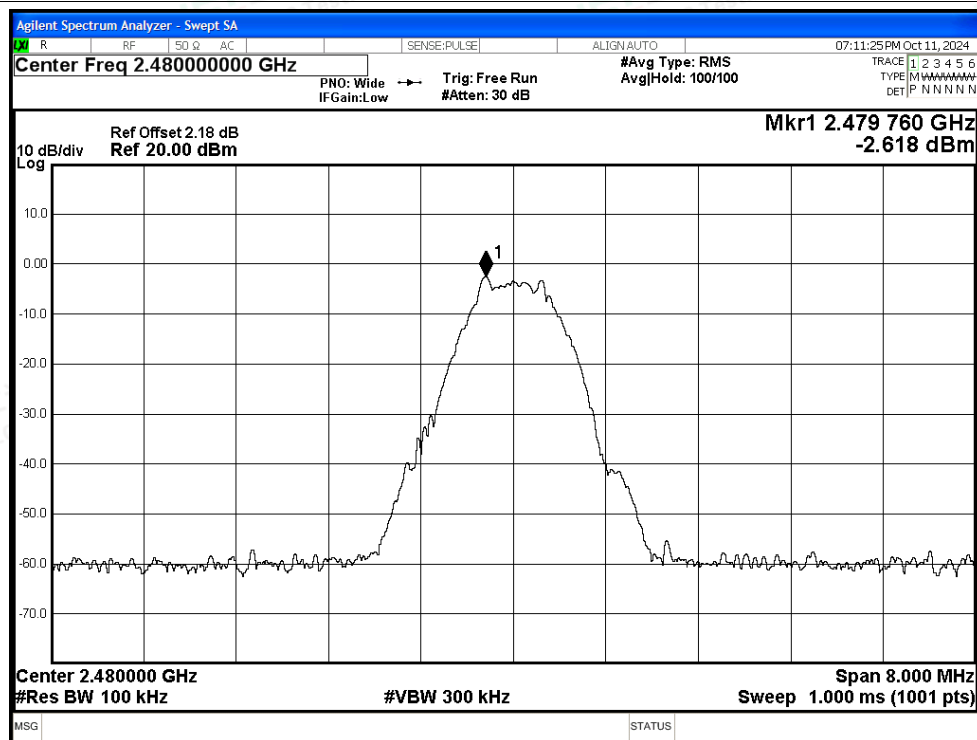
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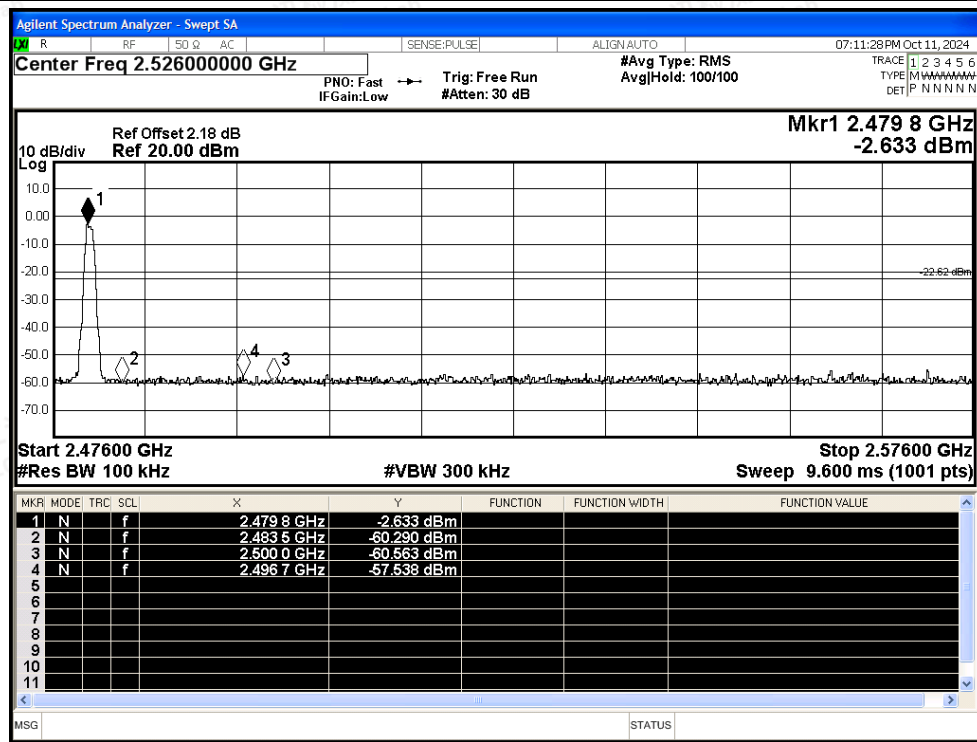
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.42	-20	Pass
NVNT	BLE 1M	2440	Ant1	-52.92	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.39	-20	Pass

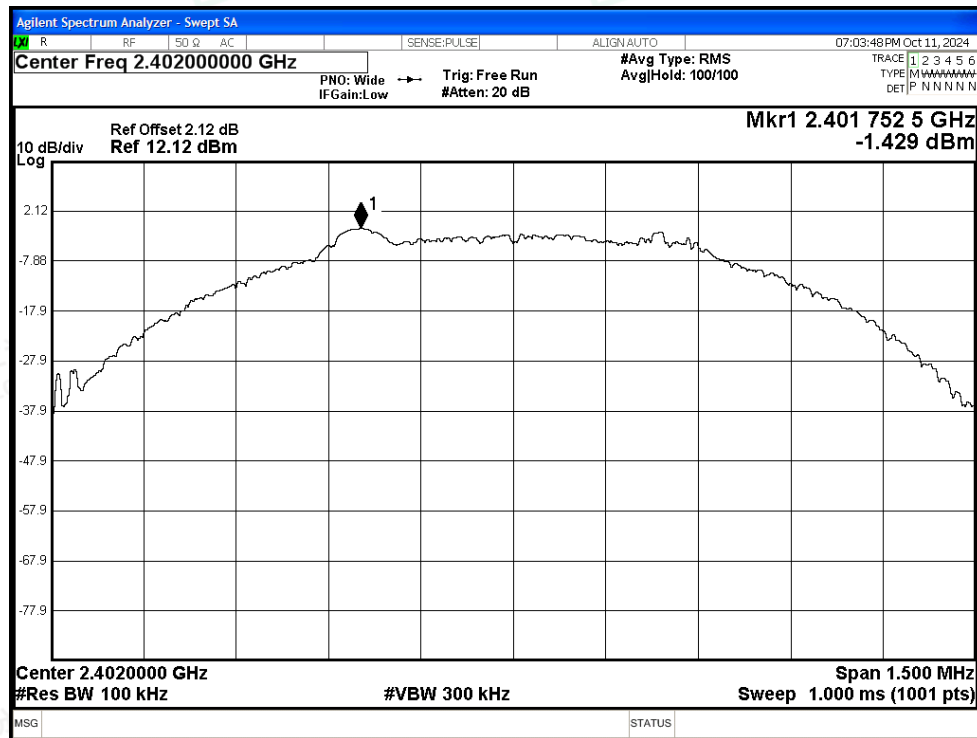


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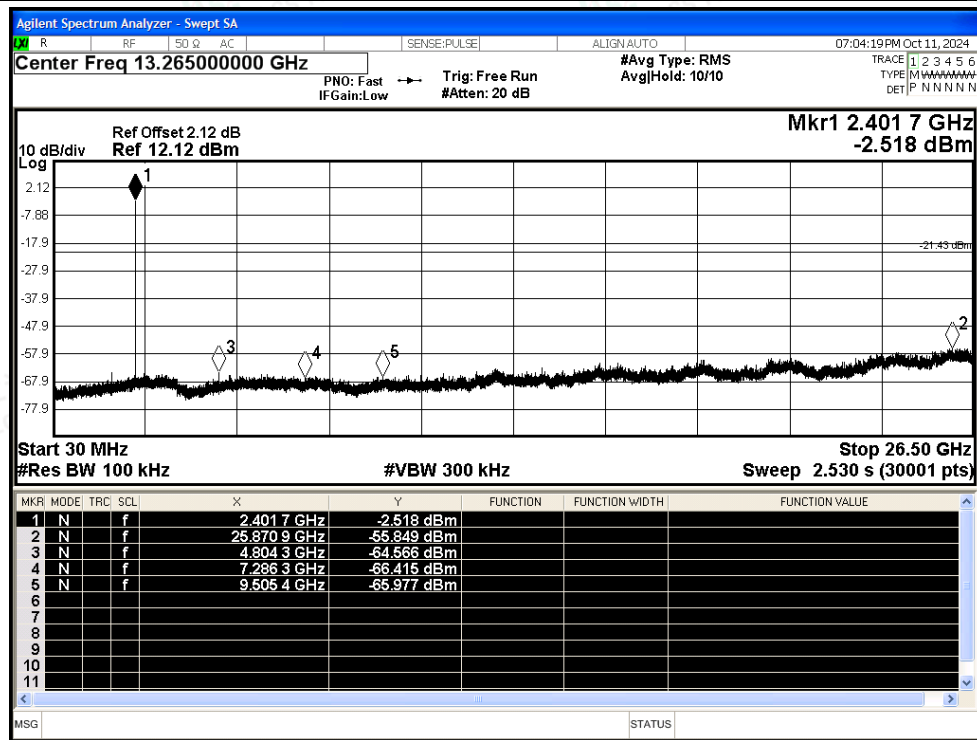


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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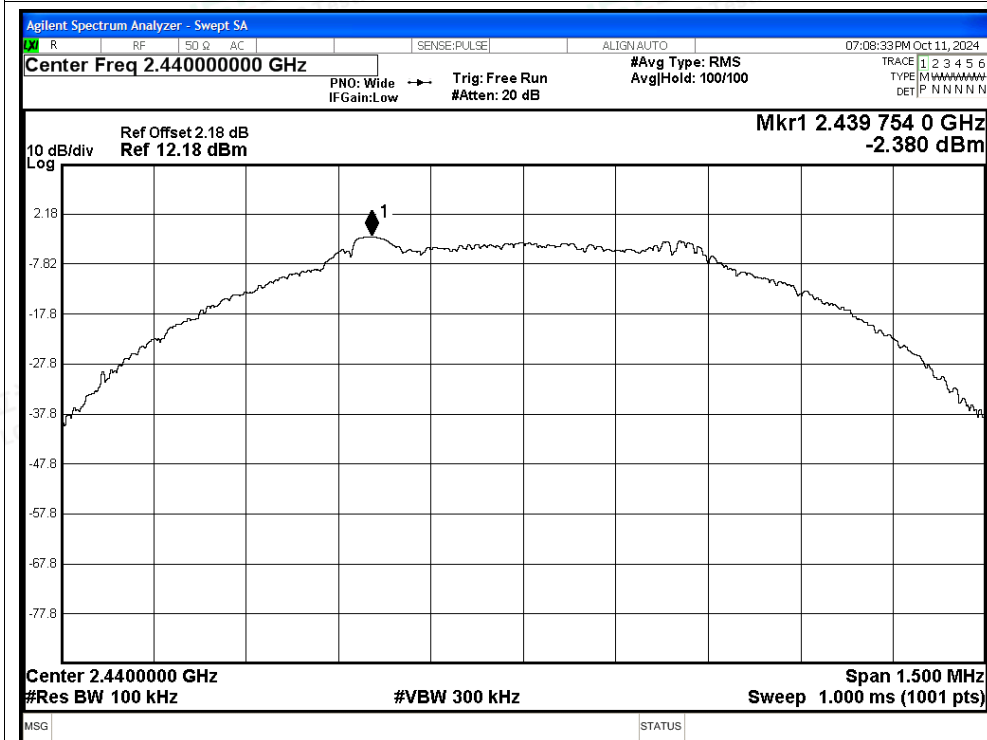
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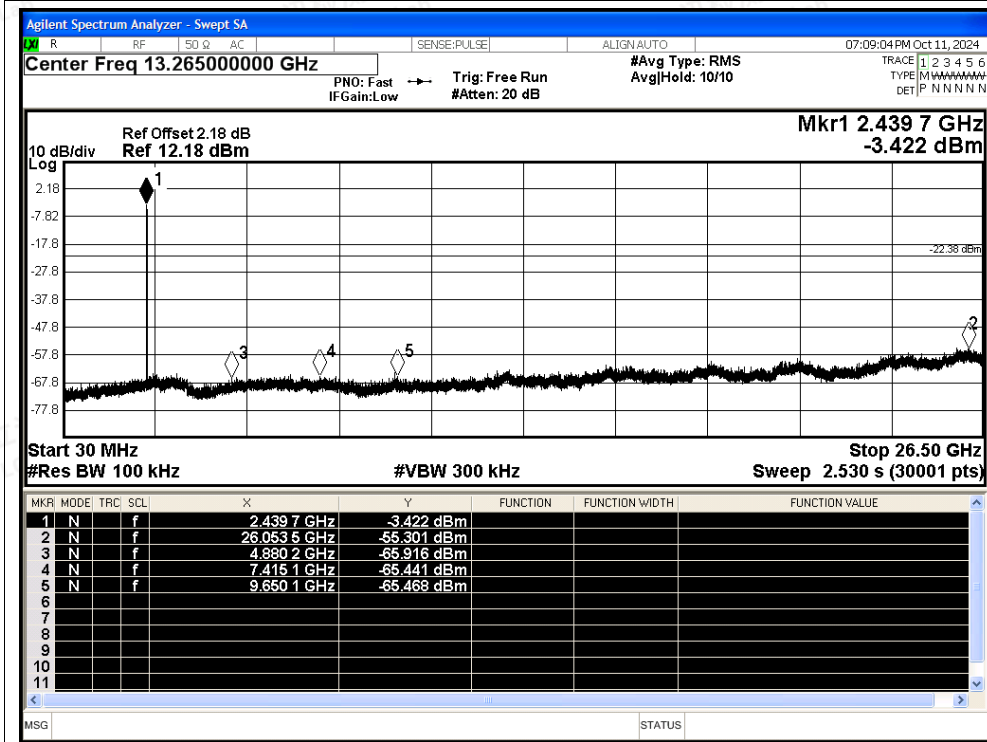
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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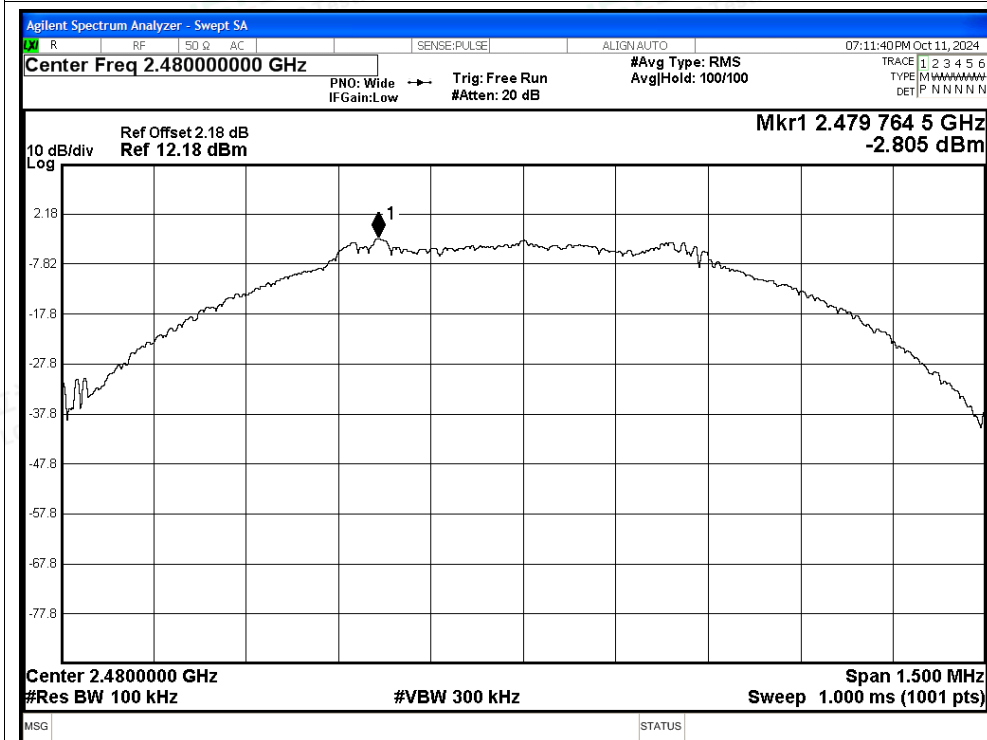
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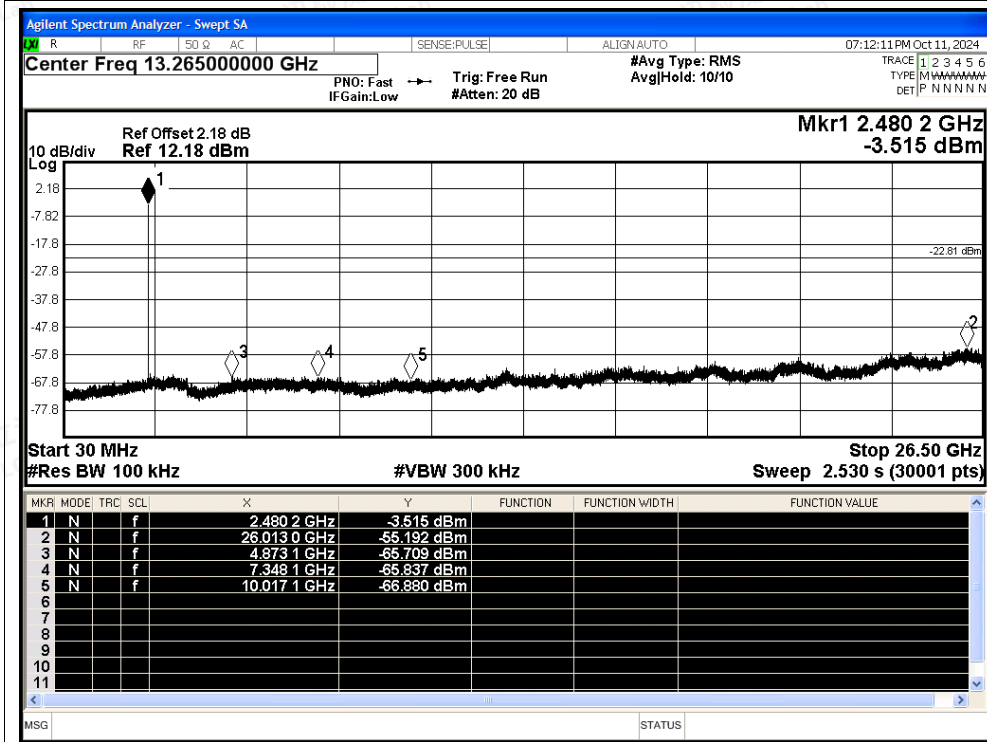
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.36	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.36	0.59	0.61

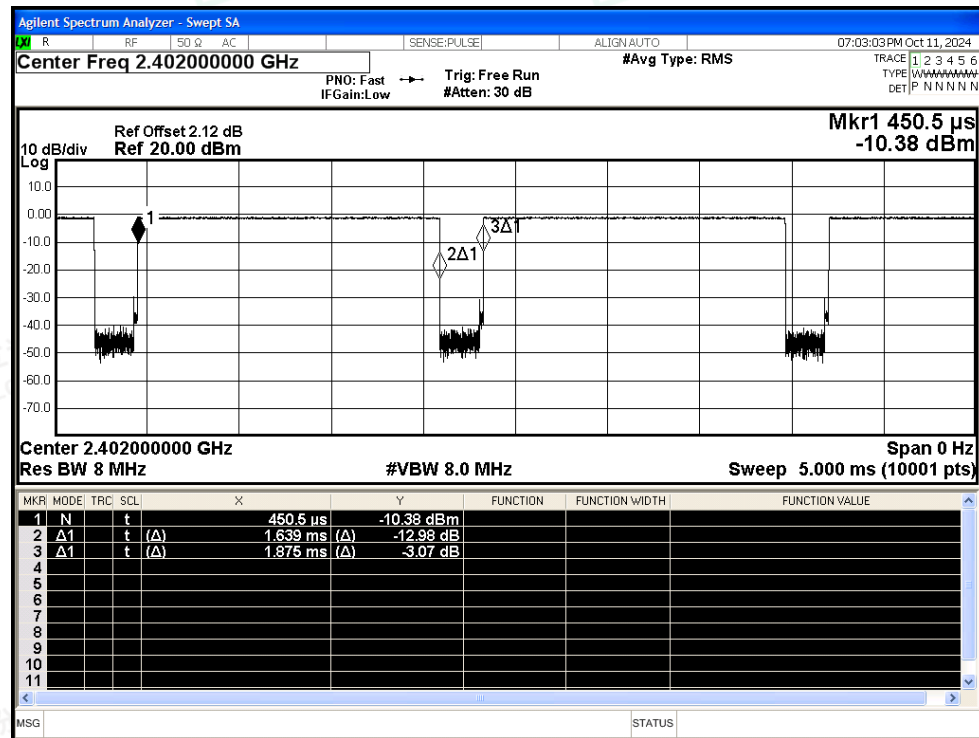


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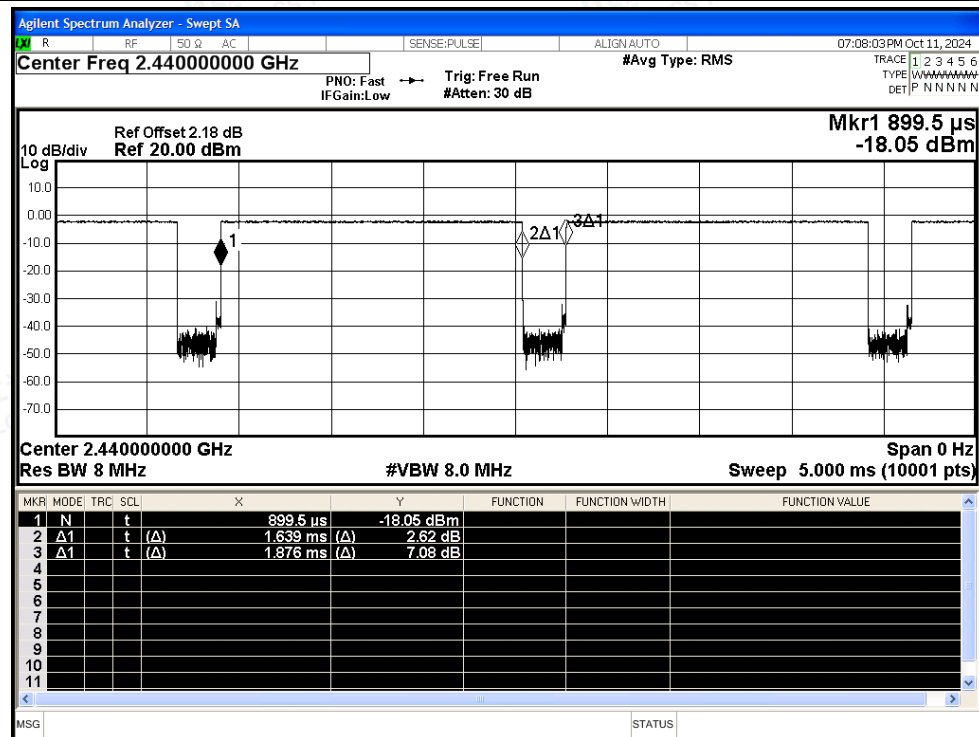


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

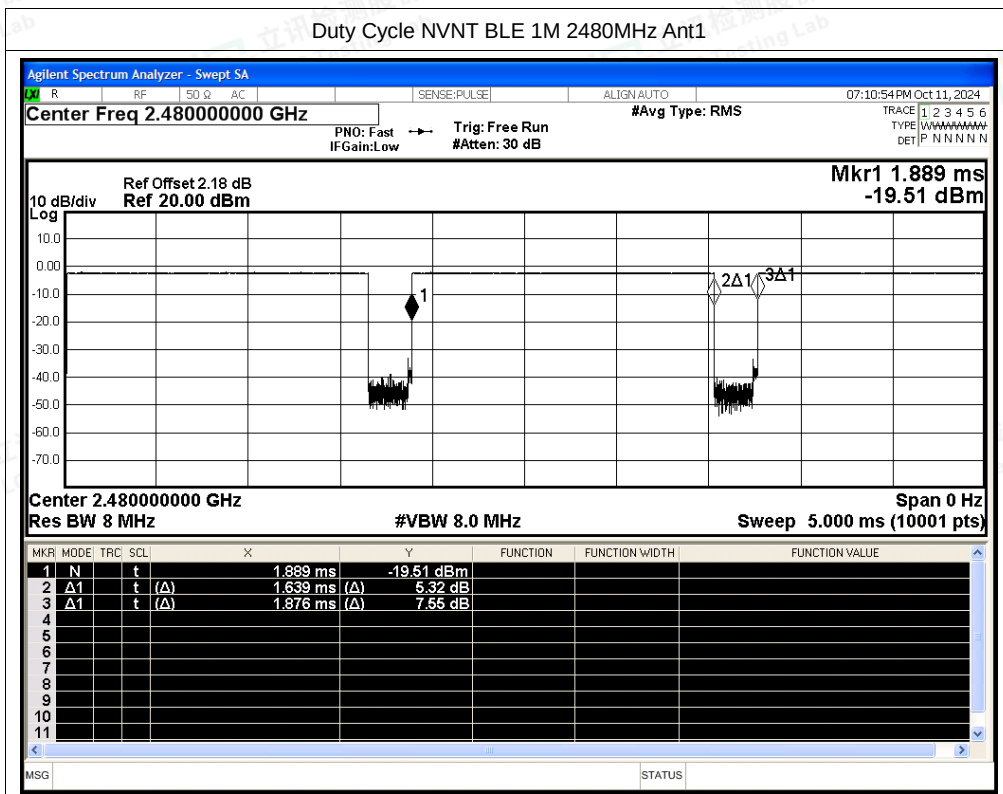


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.03	2	-	46.23	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.41	2	0.59	39.44	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2368.368	-46.5	2	-	50.76	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2380.656	-57.43	2	0.59	40.42	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.57	2	-	45.69	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.7	2	0.59	39.15	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.67	2	-	48.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.02	2	0.59	39.83	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.704	-46.31	2	-	50.95	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2492.872	-57.05	2	0.59	40.8	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49	2	-	48.26	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.26	2	0.59	39.59	Average	54	Pass



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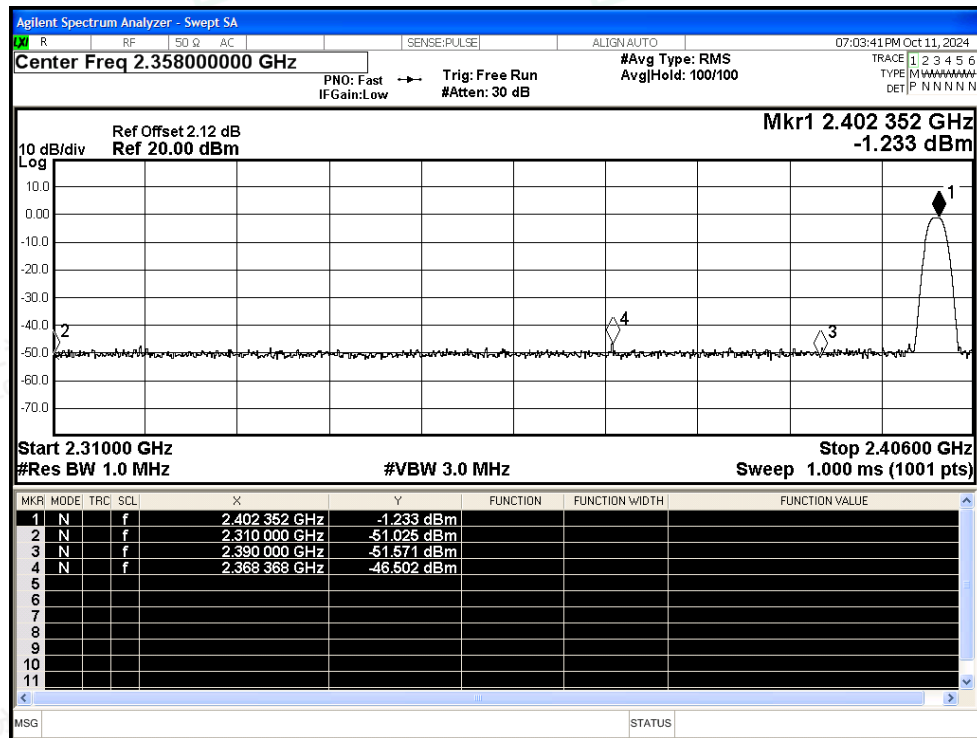
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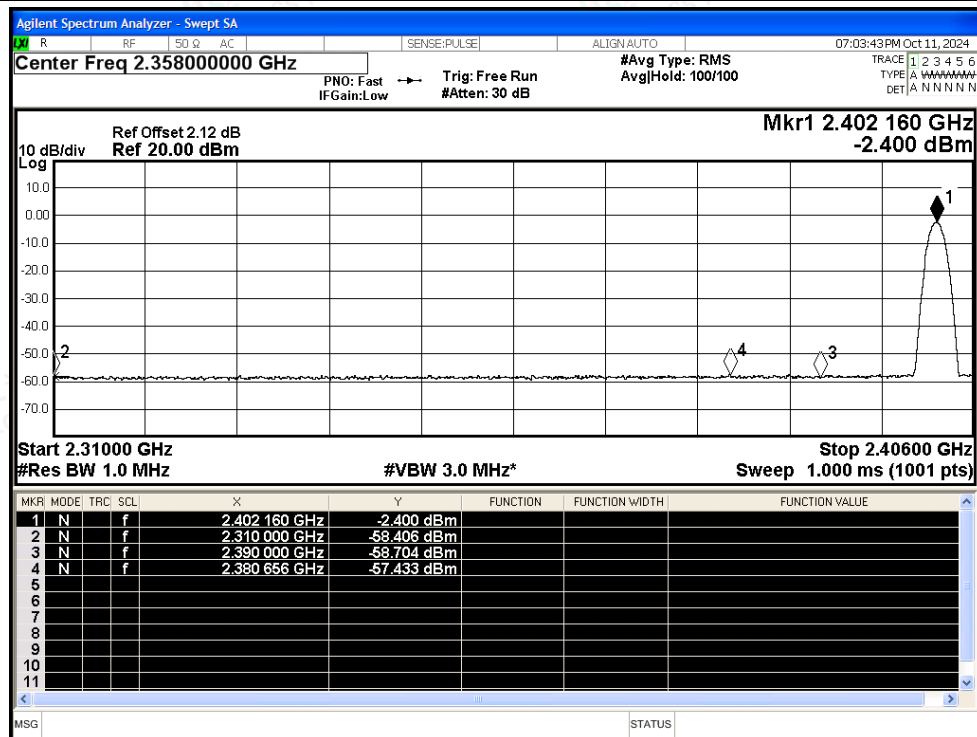


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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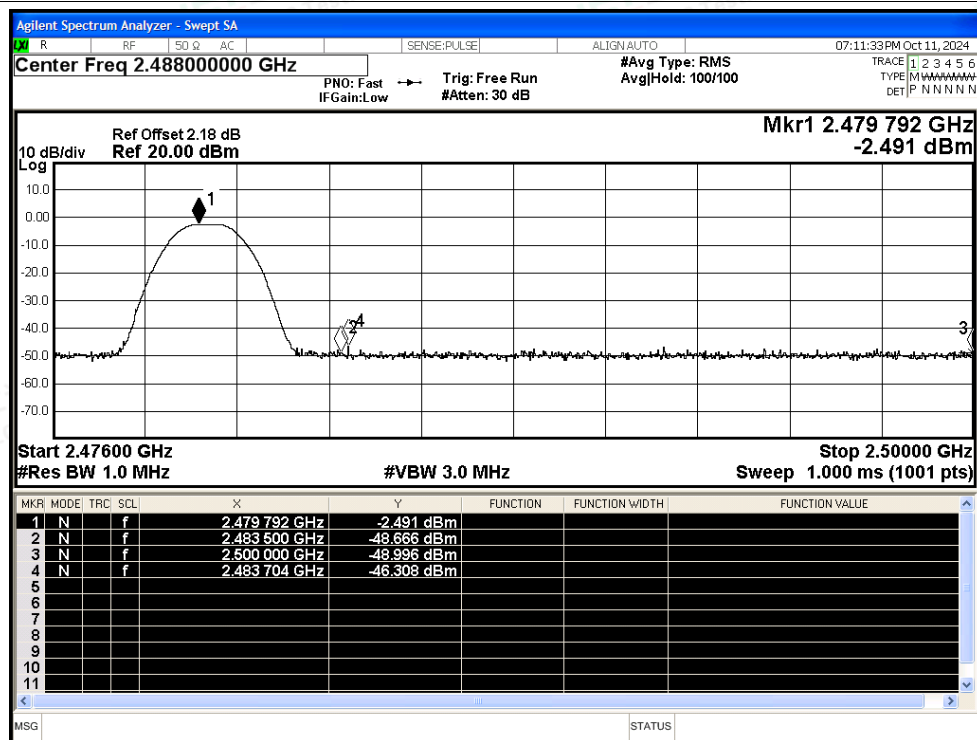
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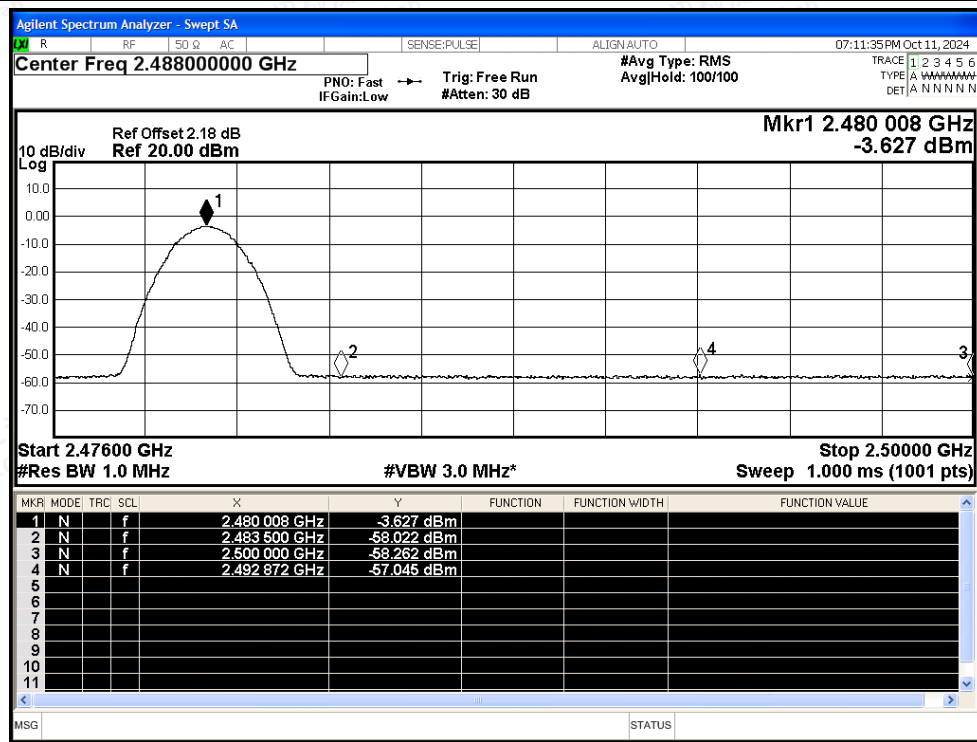
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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