

# Appendix B

## Duty Cycle

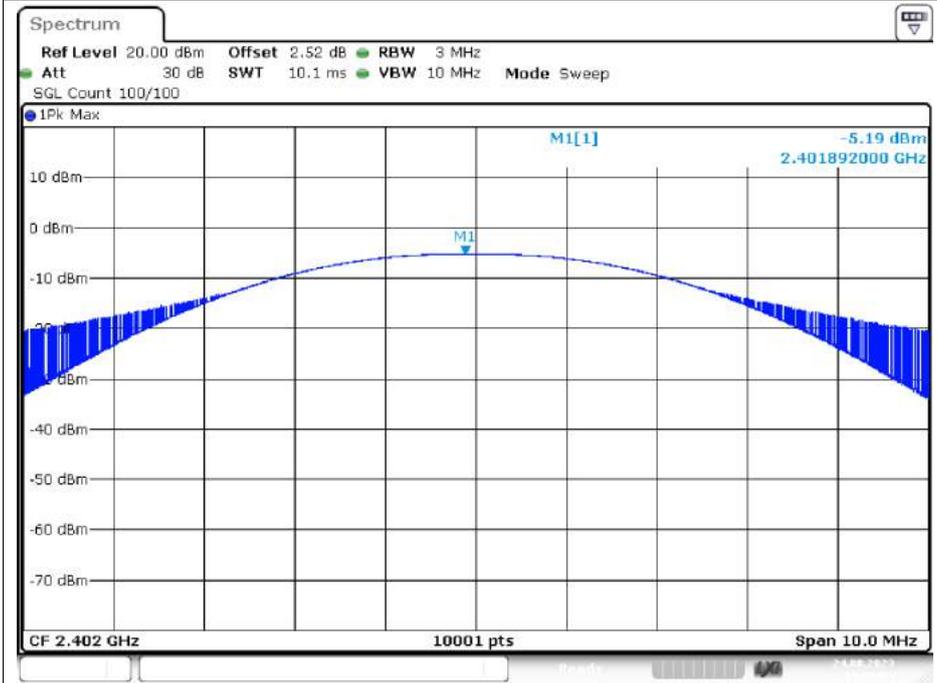
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	72.16	1.42	2.22
NVNT	BLE 1M	2440	Ant1	72.16	1.42	2.22
NVNT	BLE 1M	2480	Ant1	72.08	1.42	2.22
NVNT	BLE 2M	2402	Ant1	41.6	3.81	3.85
NVNT	BLE 2M	2440	Ant1	41.6	3.81	3.85
NVNT	BLE 2M	2480	Ant1	41.52	3.82	3.85

## Maximum Conducted Output Power

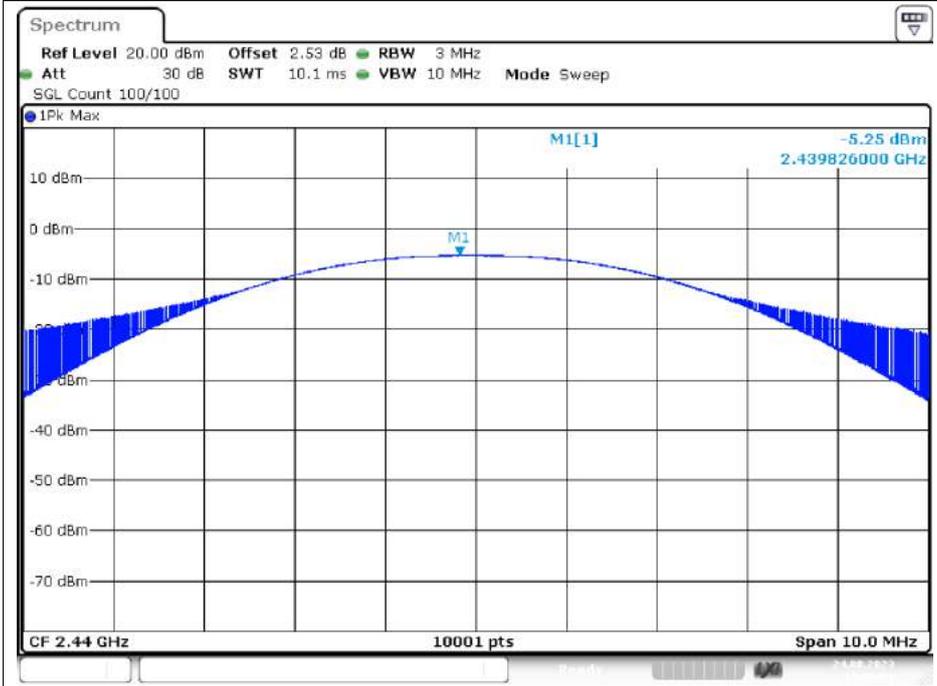
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-5.19	0	-5.19	30	Pass
NVNT	BLE 1M	2440	Ant1	-5.25	0	-5.25	30	Pass
NVNT	BLE 1M	2480	Ant1	-5.86	0	-5.86	30	Pass
NVNT	BLE 2M	2402	Ant1	-5.13	0	-5.13	30	Pass
NVNT	BLE 2M	2440	Ant1	-5.22	0	-5.22	30	Pass
NVNT	BLE 2M	2480	Ant1	-5.85	0	-5.85	30	Pass

Test Graphs

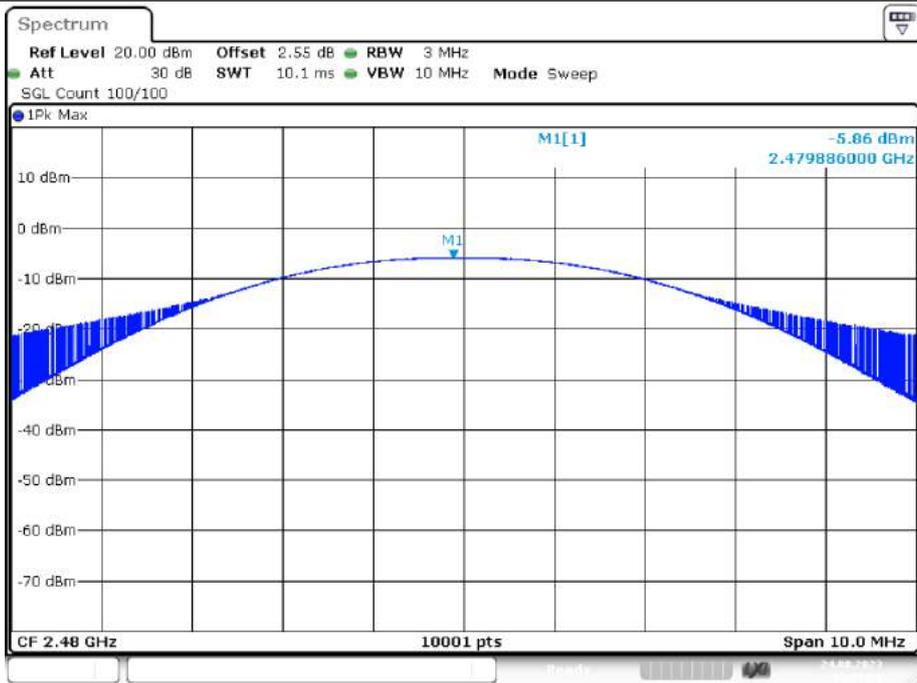
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

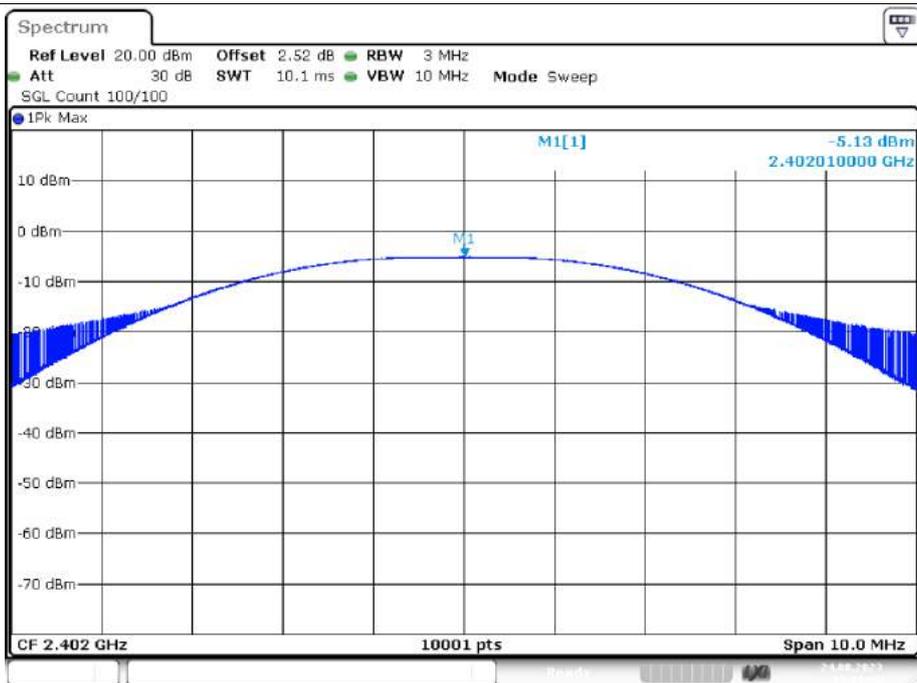


Power NVNT BLE 1M 2480MHz Ant1



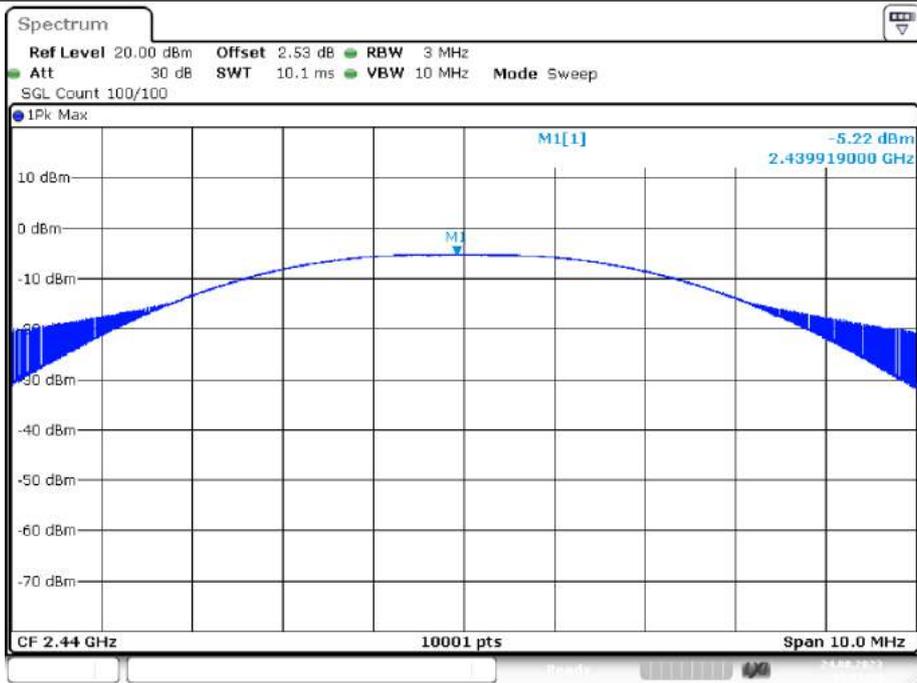
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Power NVNT BLE 2M 2402MHz Ant1



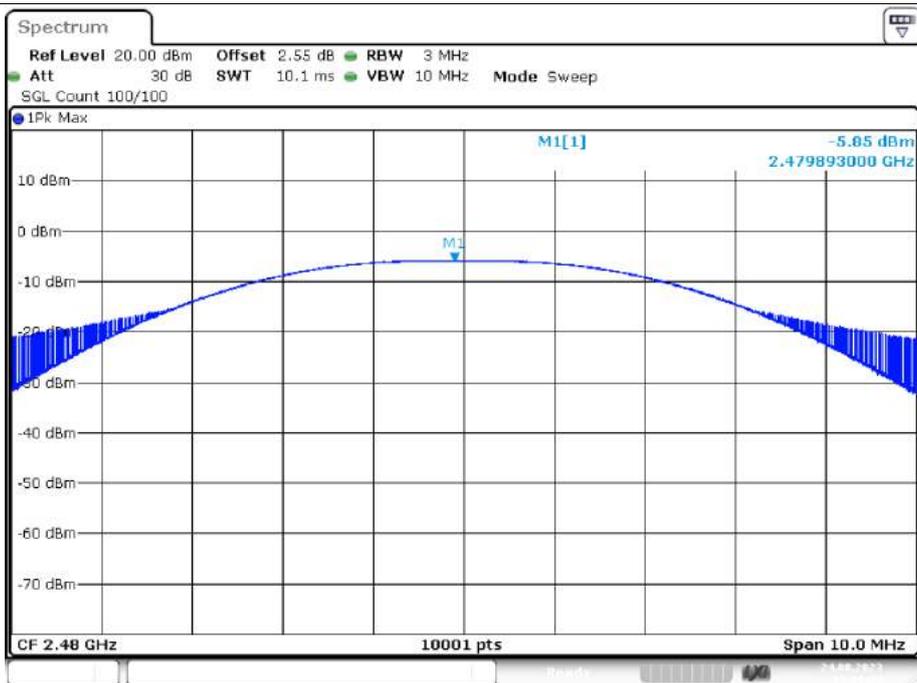
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Power NVNT BLE 2M 2440MHz Ant1



Date: 24.AUG.2023 13:17:25

Power NVNT BLE 2M 2480MHz Ant1



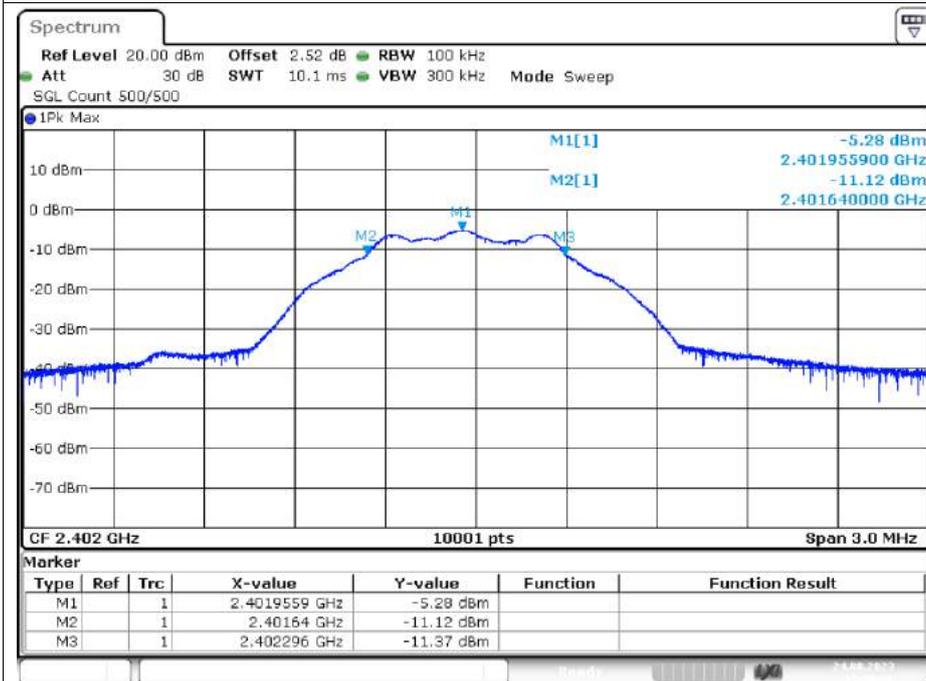
Date: 24.AUG.2023 13:19:34

## -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.656	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.656	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.656	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.09	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.079	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.077	0.5	Pass

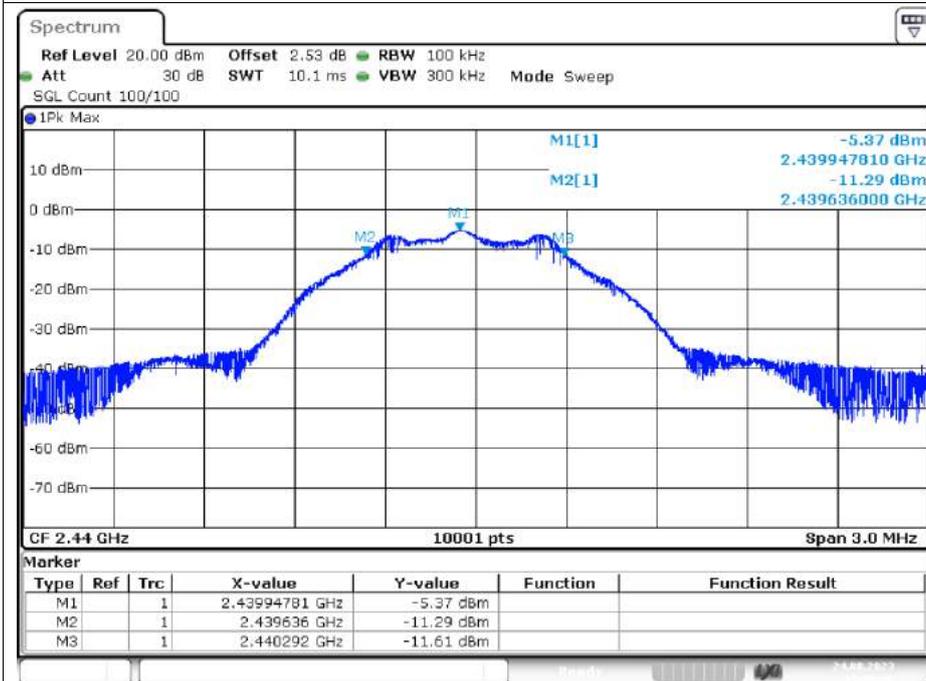
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



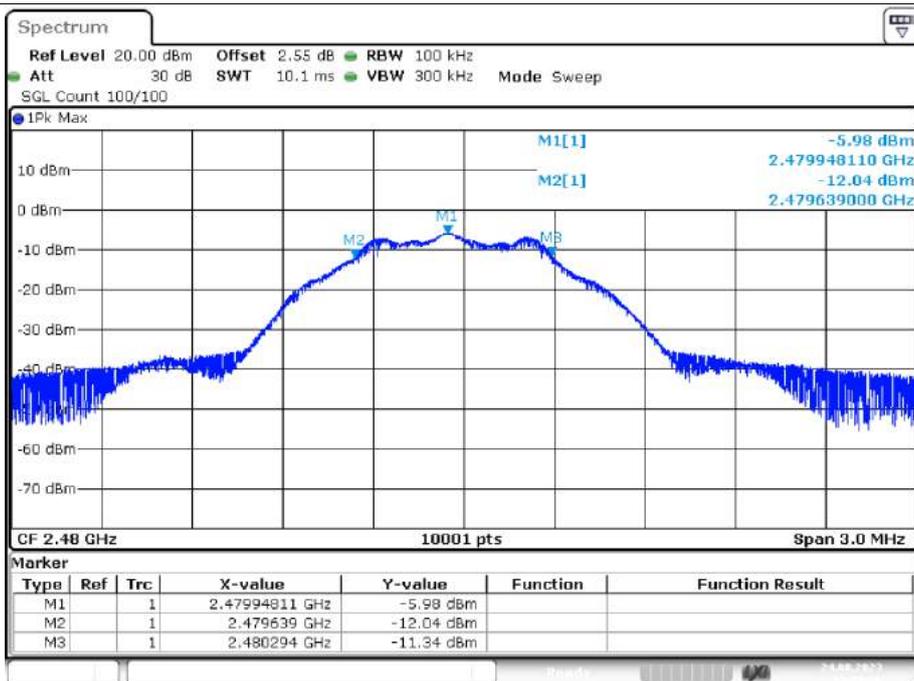
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-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



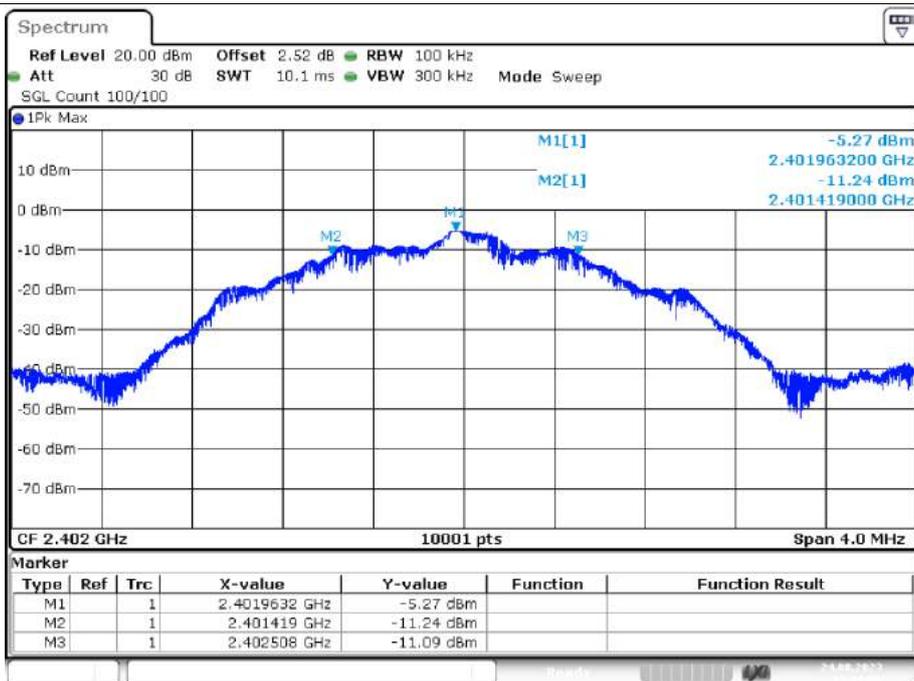
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



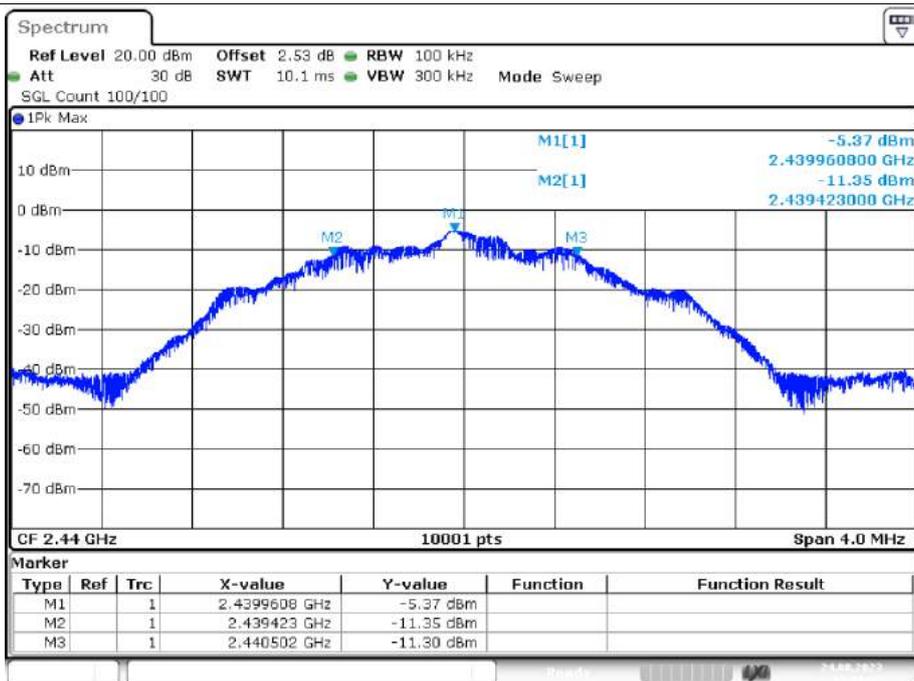
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-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



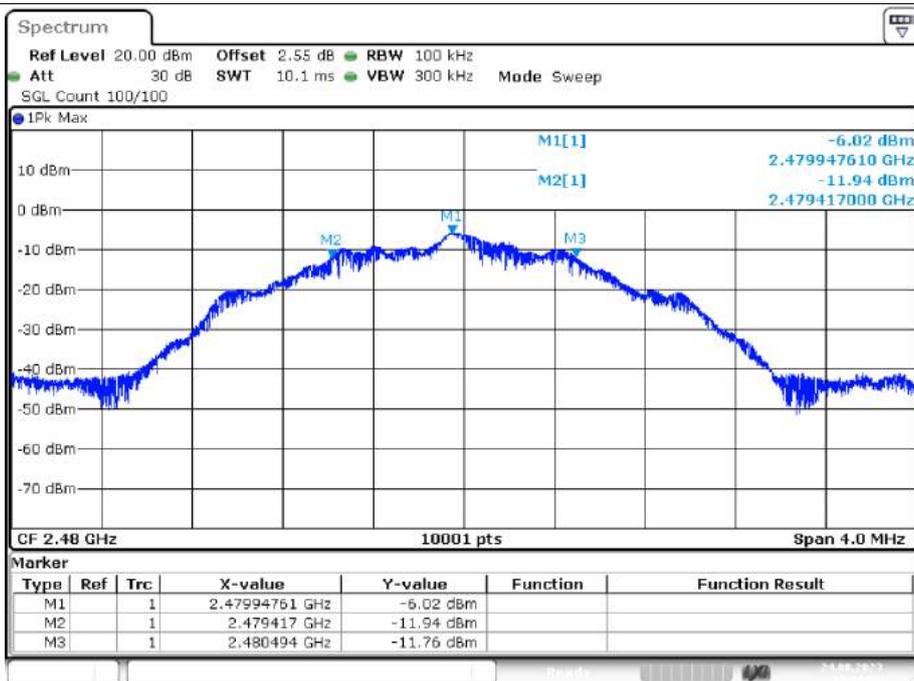
Date: 24.AUG.2023 13:14:00

-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



Date: 24.AUG.2023 13:18:35

-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



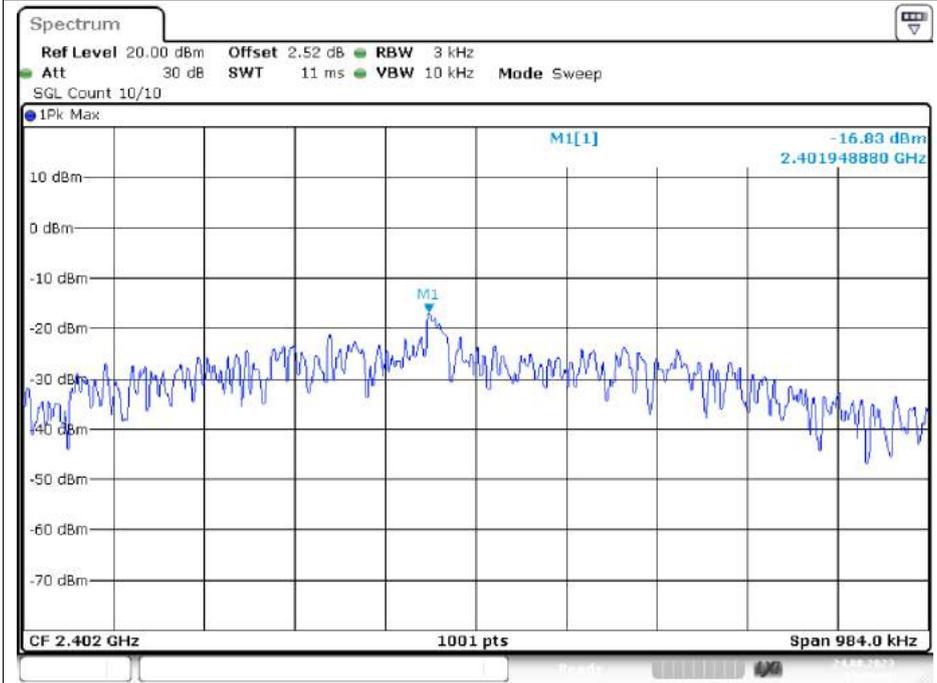
Date: 24.AUG.2023 13:19:51

## Maximum Power Spectral Density Level

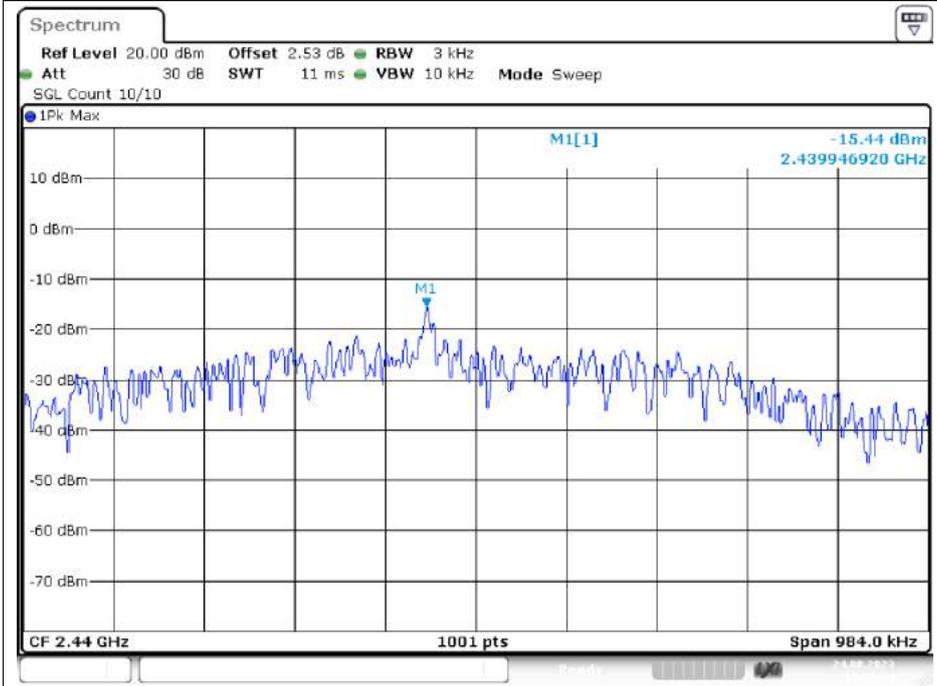
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.83	0	-16.83	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.44	0	-15.44	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.12	0	-16.12	8	Pass
NVNT	BLE 2M	2402	Ant1	-19.5	0	-19.5	8	Pass
NVNT	BLE 2M	2440	Ant1	-20.78	0	-20.78	8	Pass
NVNT	BLE 2M	2480	Ant1	-20.51	0	-20.51	8	Pass

Test Graphs

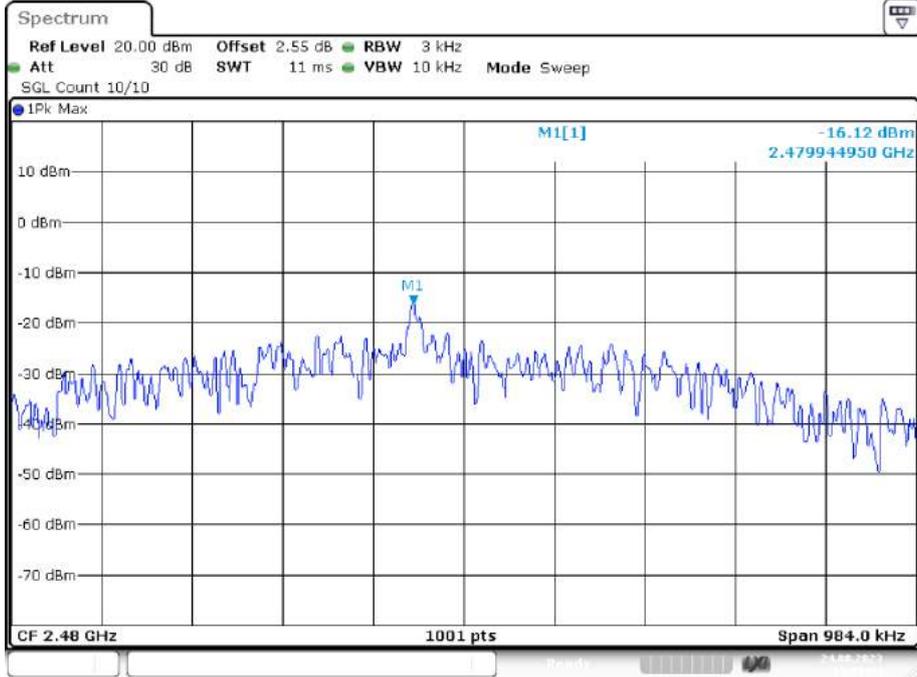
PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

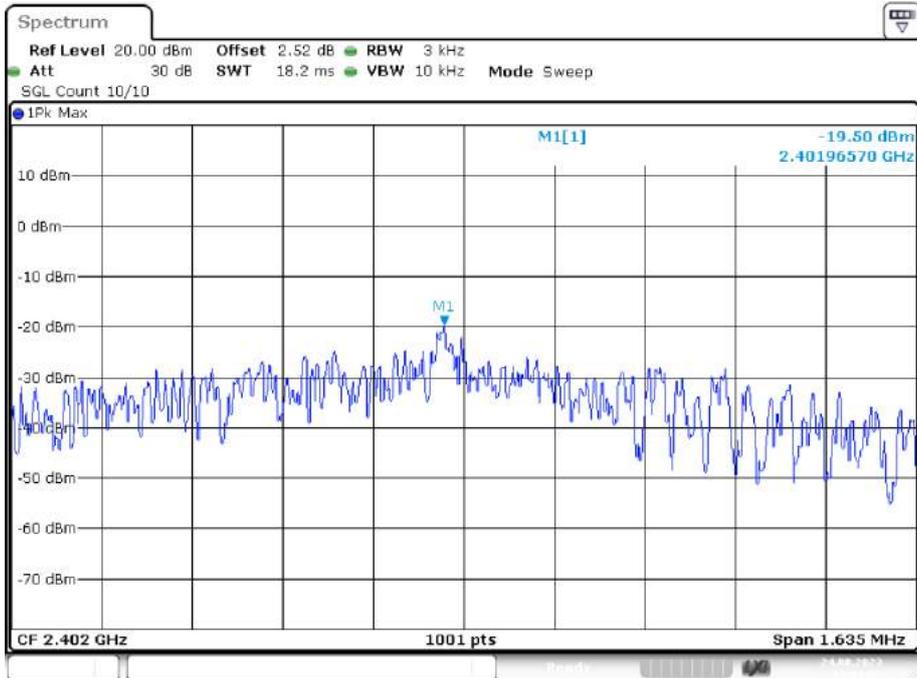


PSD NVNT BLE 1M 2480MHz Ant1



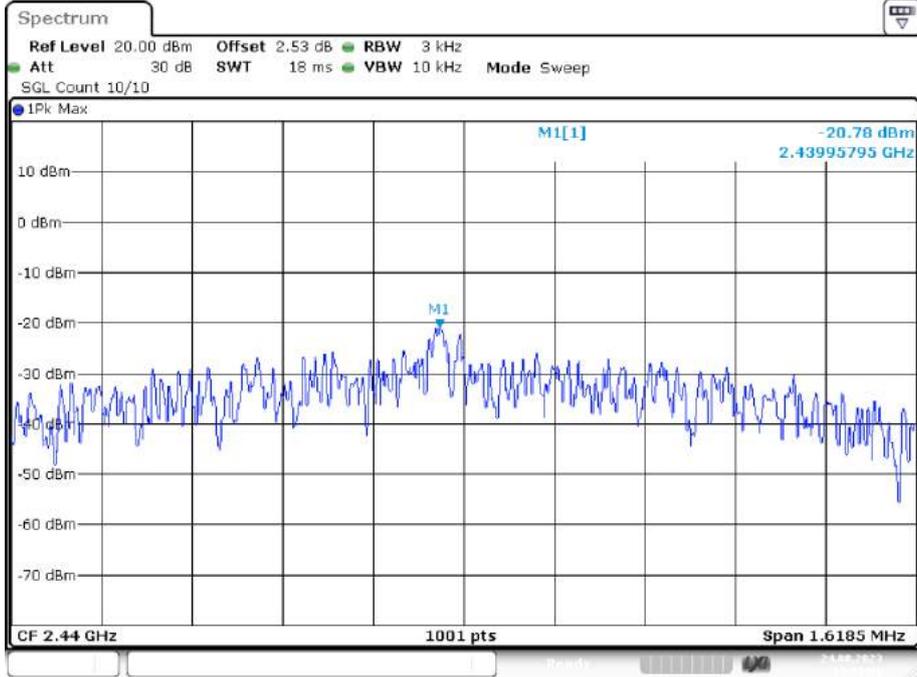
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PSD NVNT BLE 2M 2402MHz Ant1



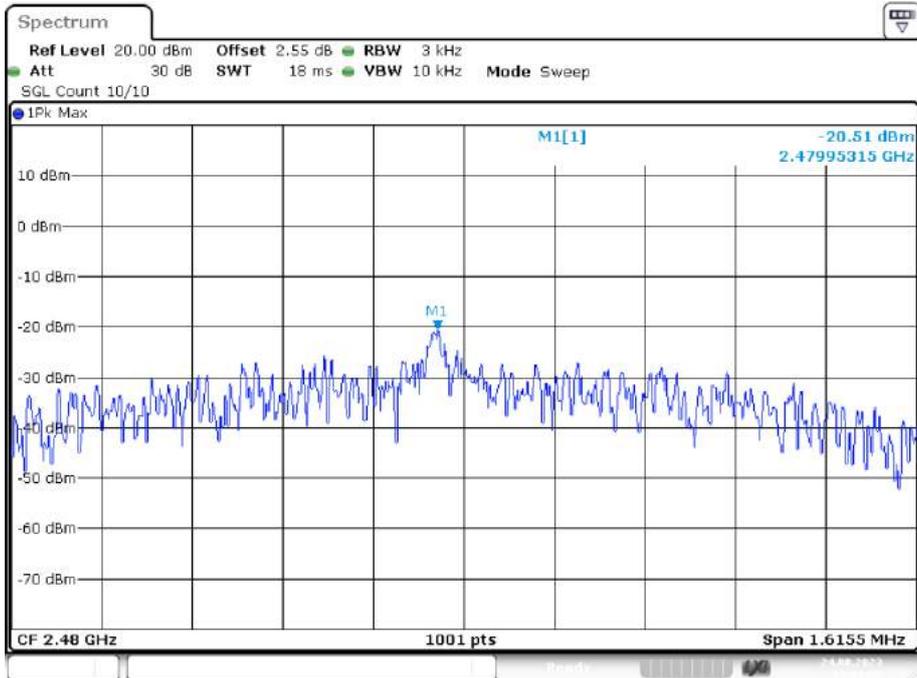
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PSD NVNT BLE 2M 2440MHz Ant1



Date: 24.AUG.2023 13:18:41

PSD NVNT BLE 2M 2480MHz Ant1



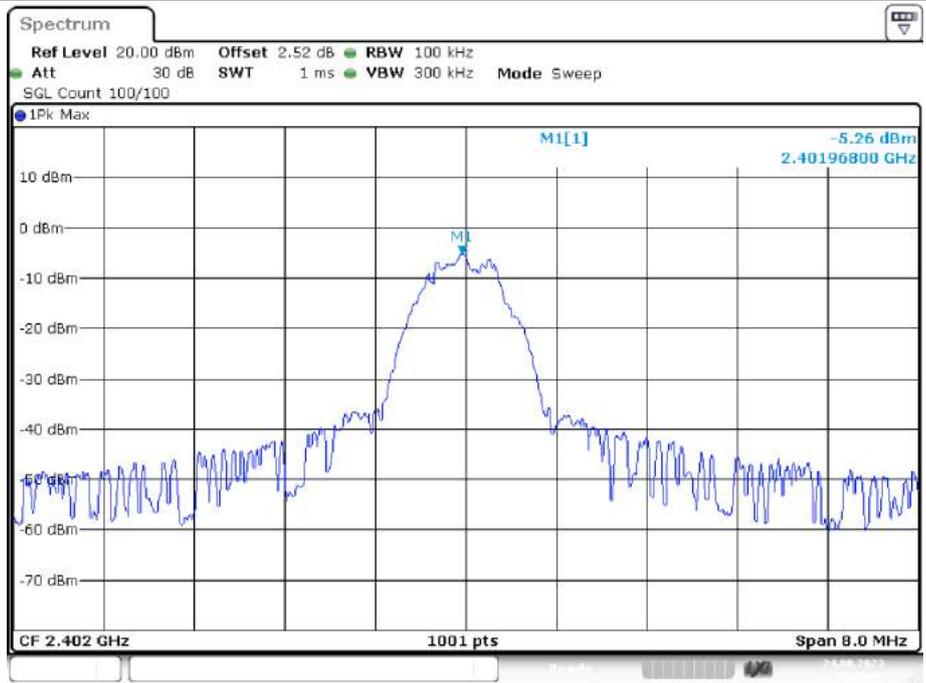
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## Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-40.84	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.17	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.19	-20	Pass
NVNT	BLE 2M	2480	Ant1	-43.29	-20	Pass

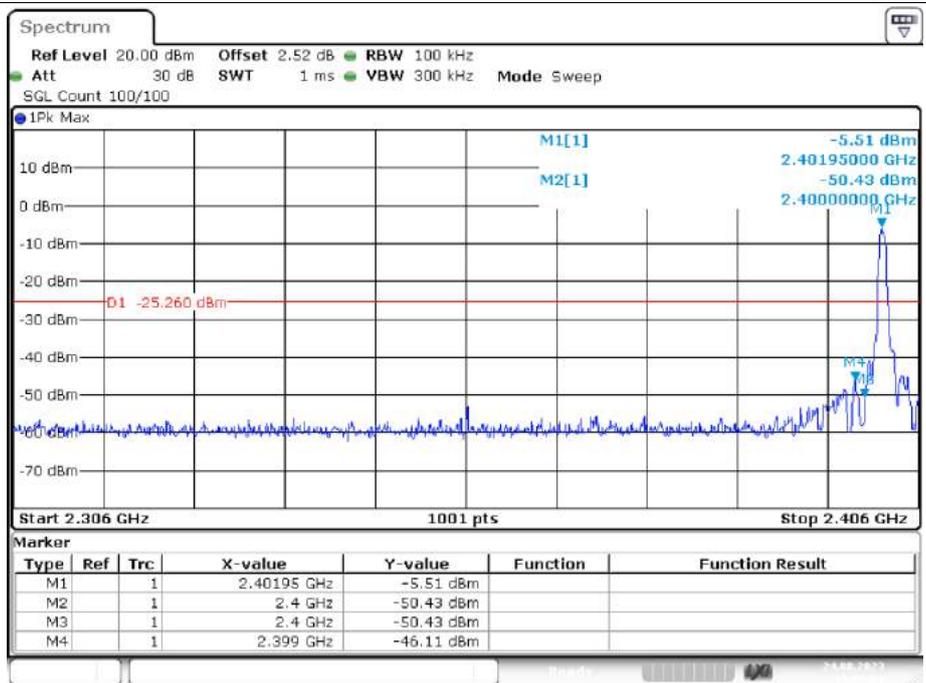
Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



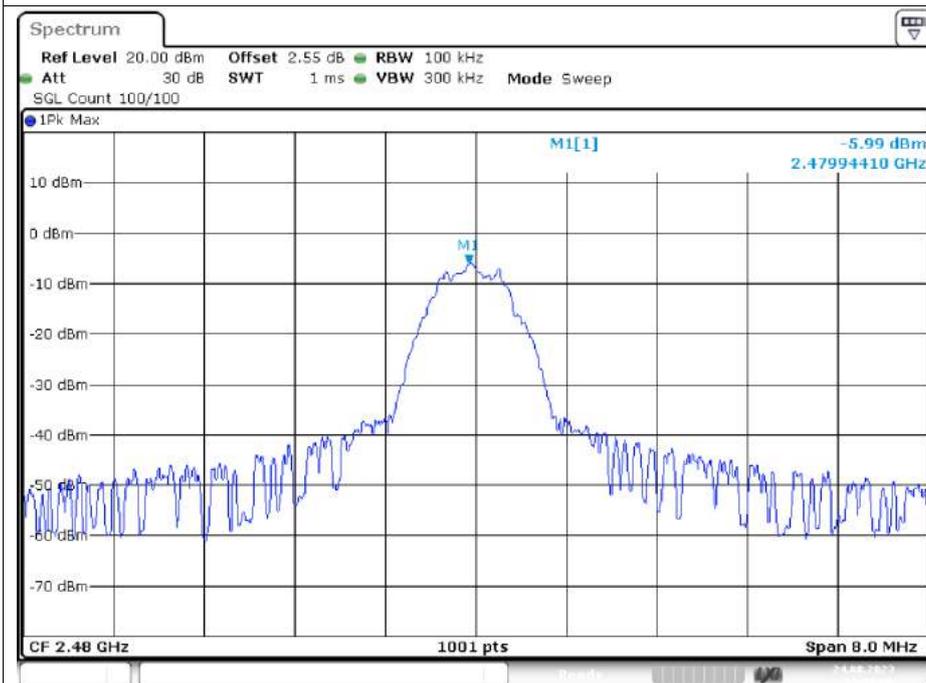
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Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



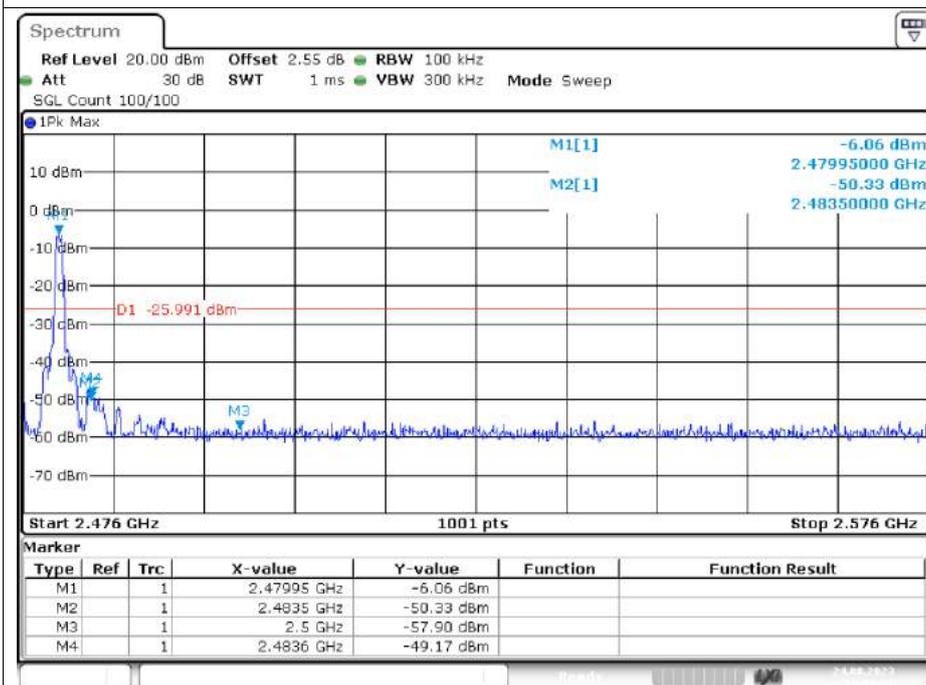
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### Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



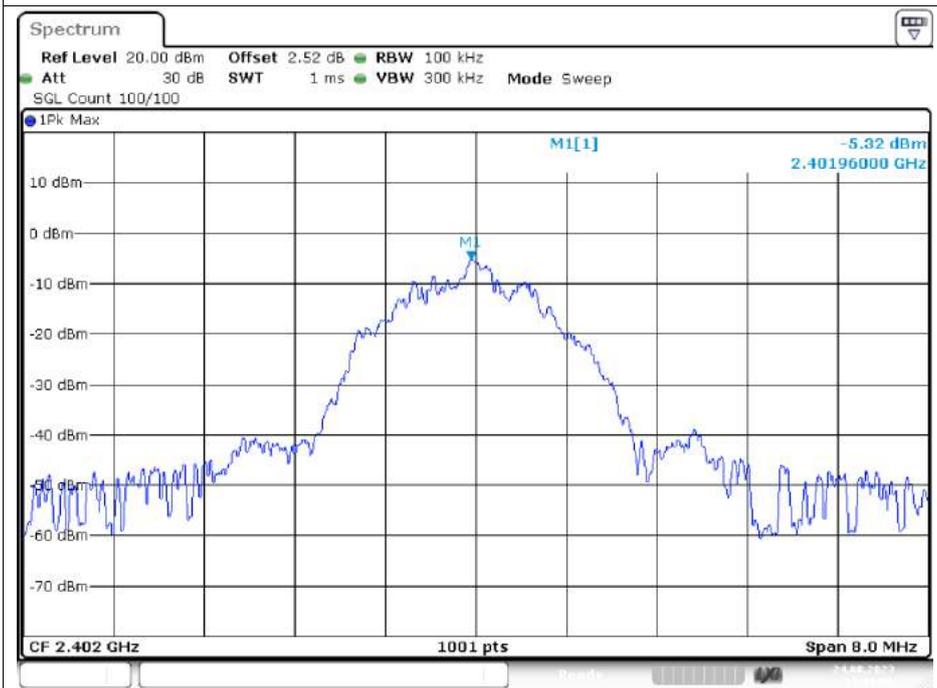
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### Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



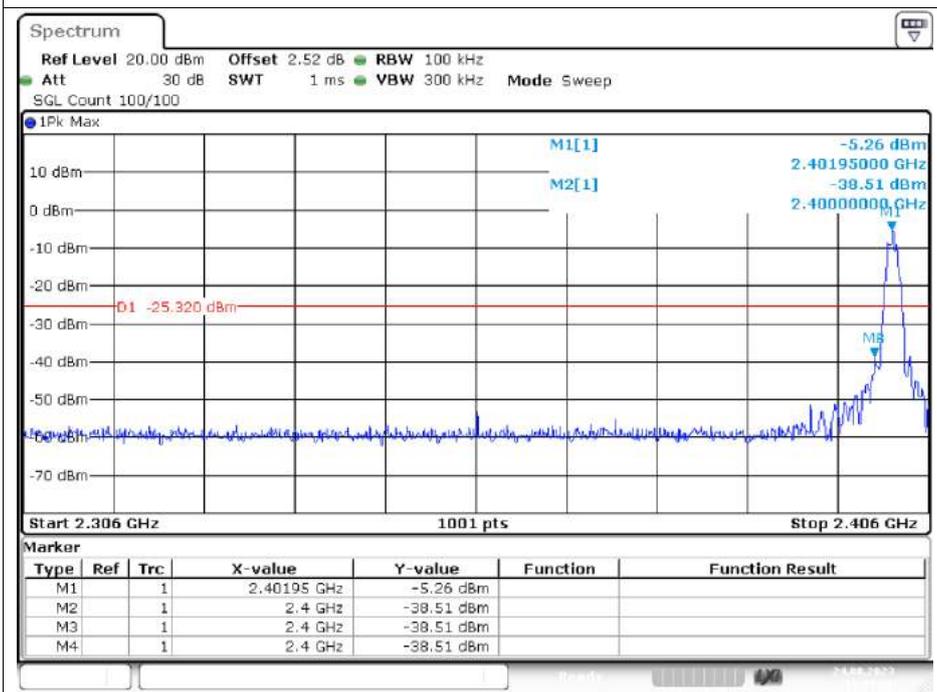
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Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



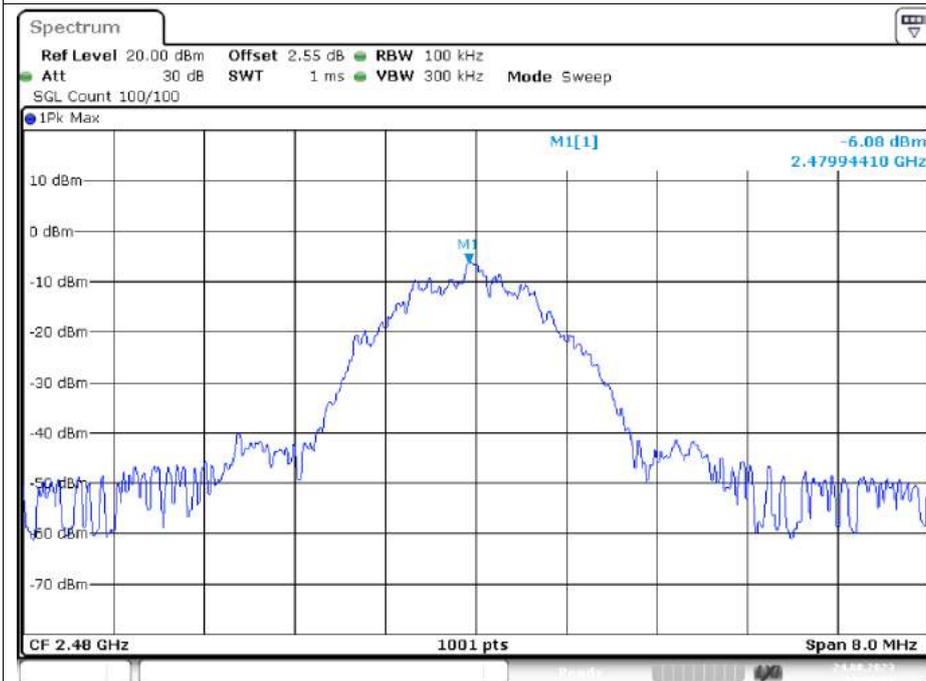
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Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



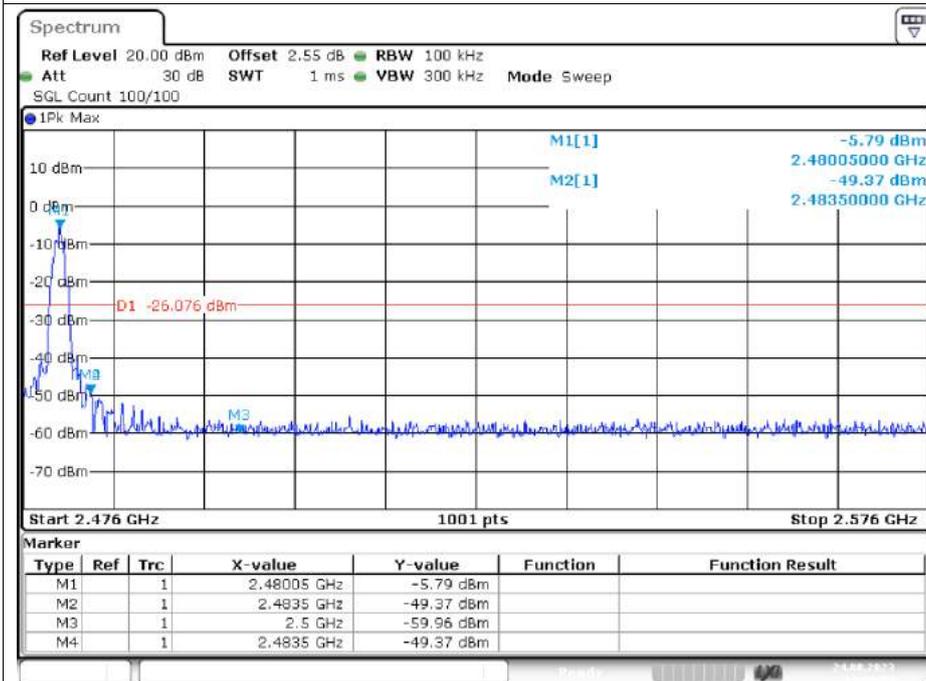
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Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Date: 24.AUG.2023 13:20:01

Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



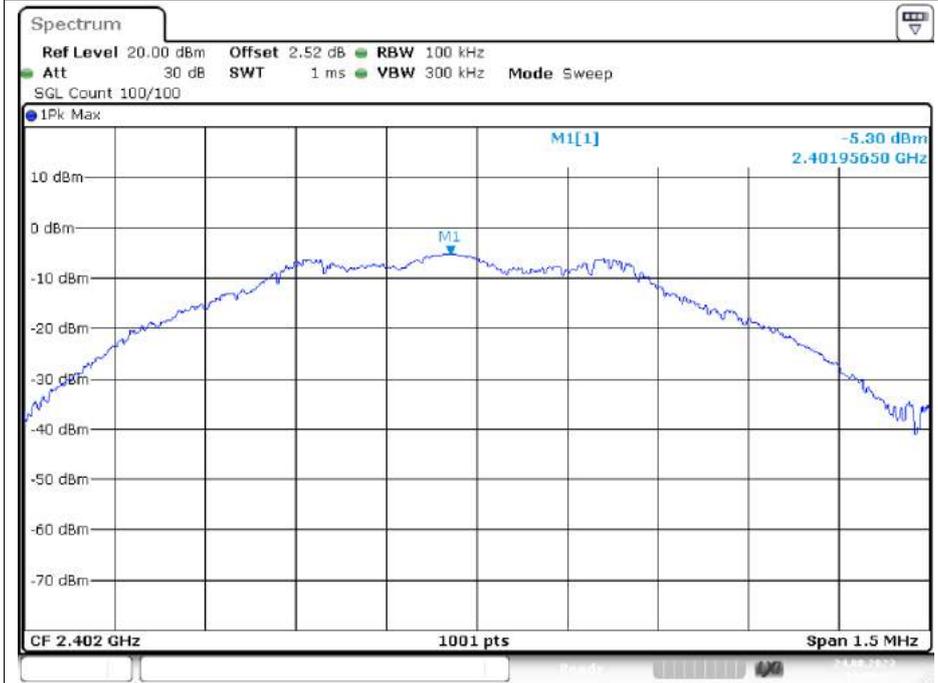
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## Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-44.38	-20	Pass
NVNT	BLE 1M	2440	Ant1	-44.69	-20	Pass
NVNT	BLE 1M	2480	Ant1	-43.86	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.36	-20	Pass
NVNT	BLE 2M	2440	Ant1	-44.61	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.17	-20	Pass

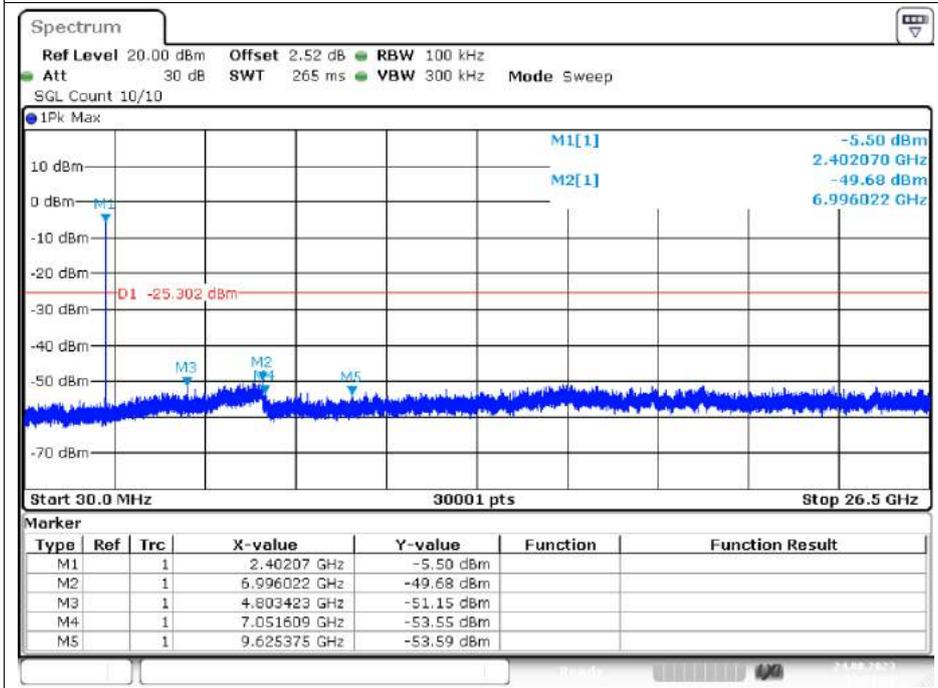
Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



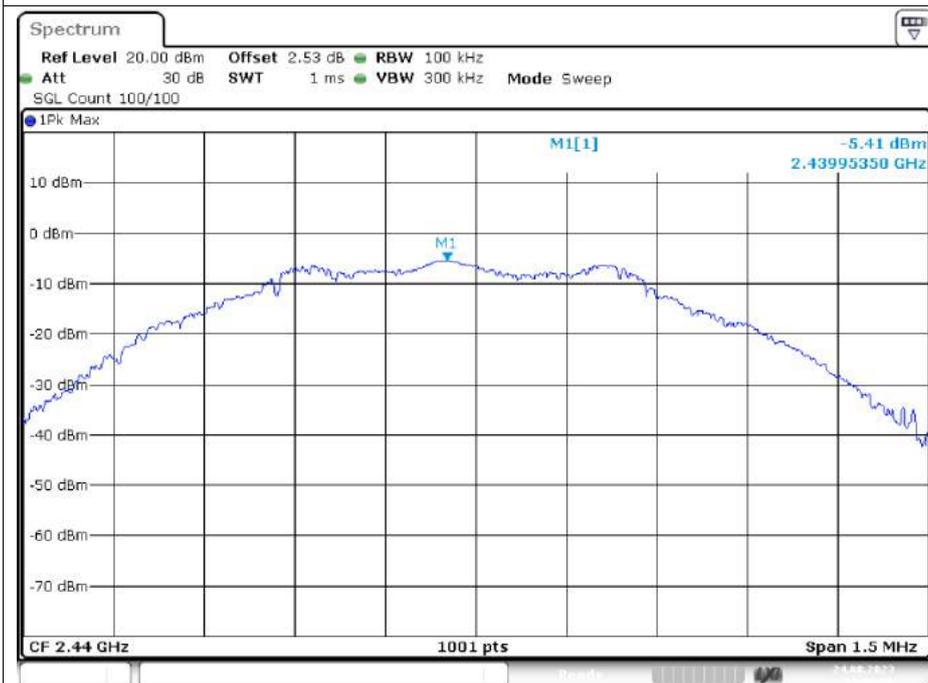
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Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



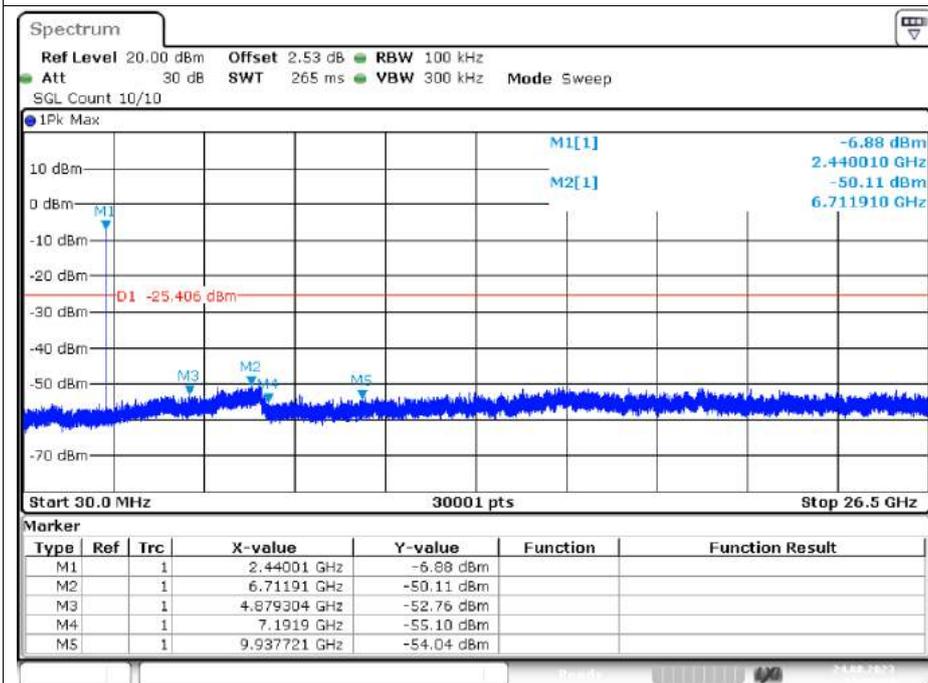
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



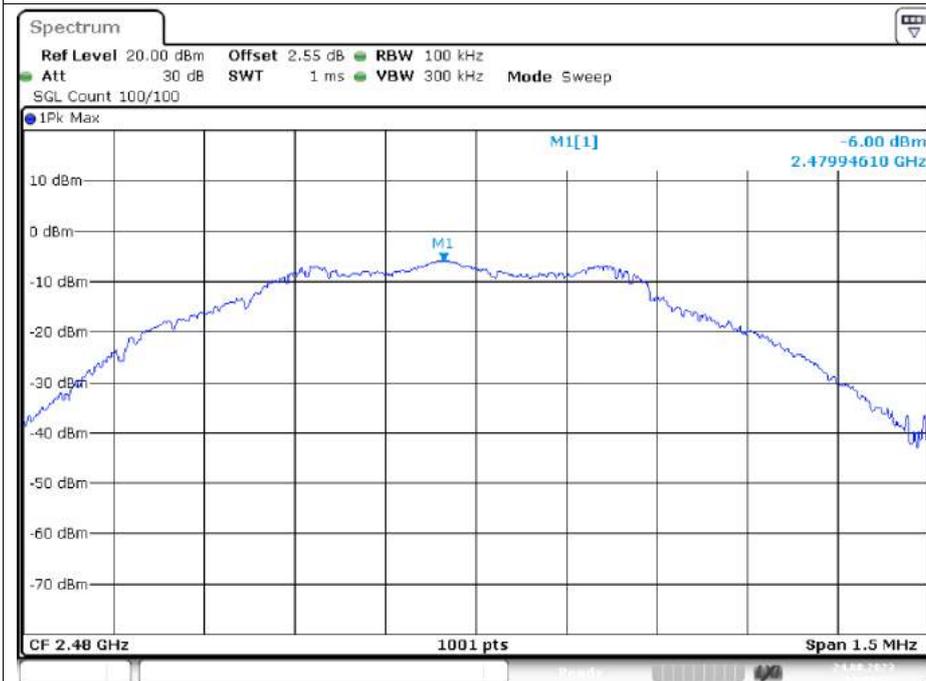
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



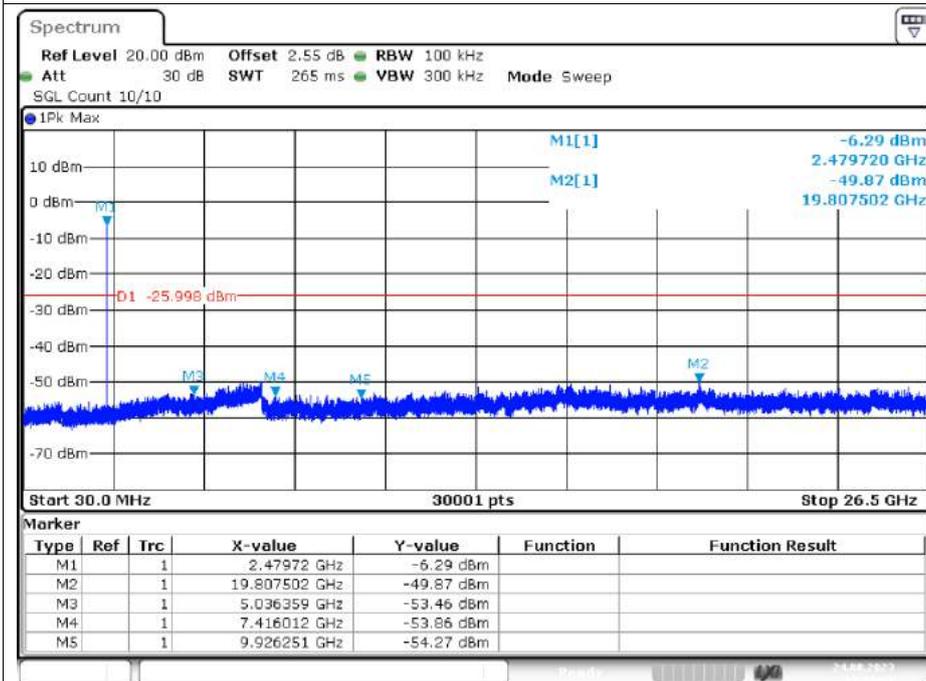
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



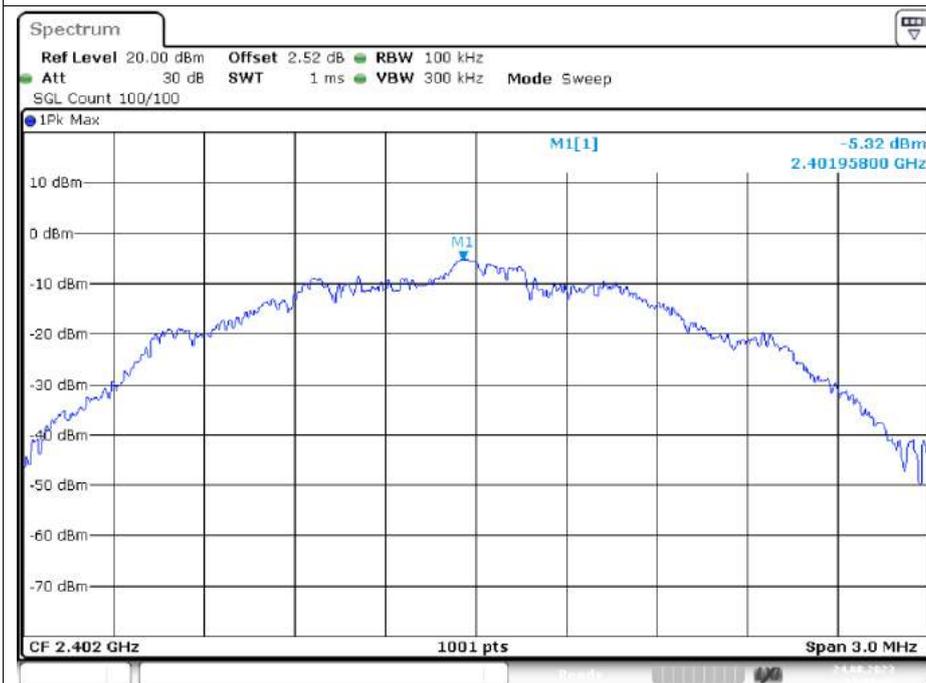
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



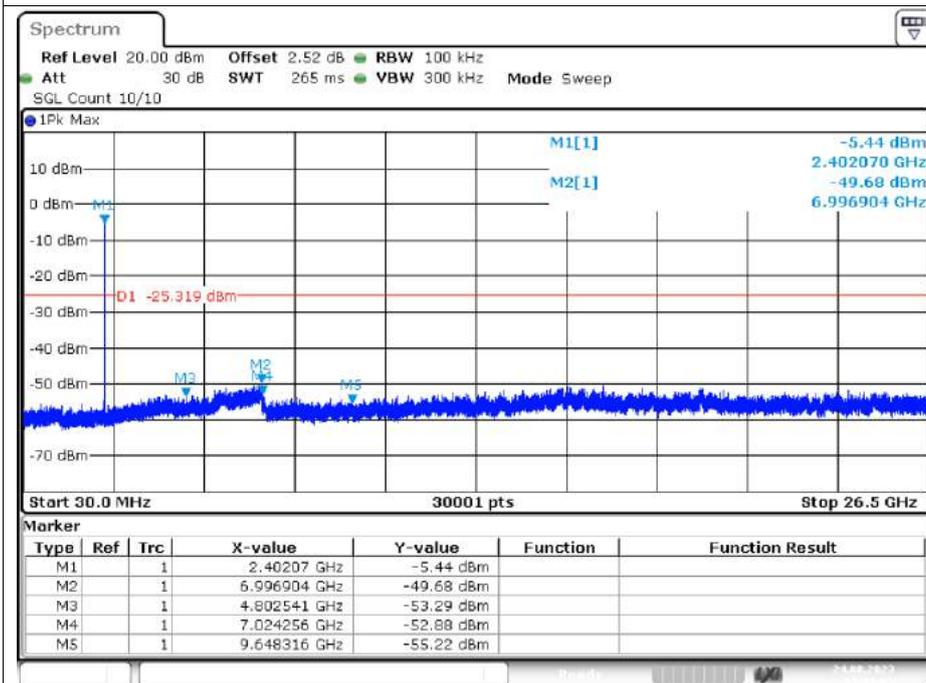
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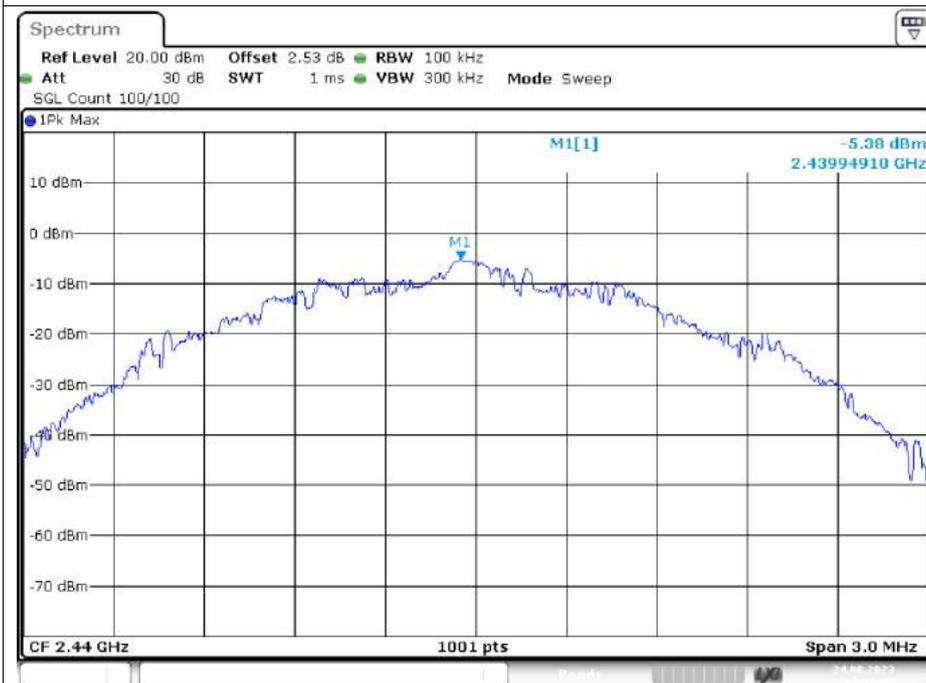
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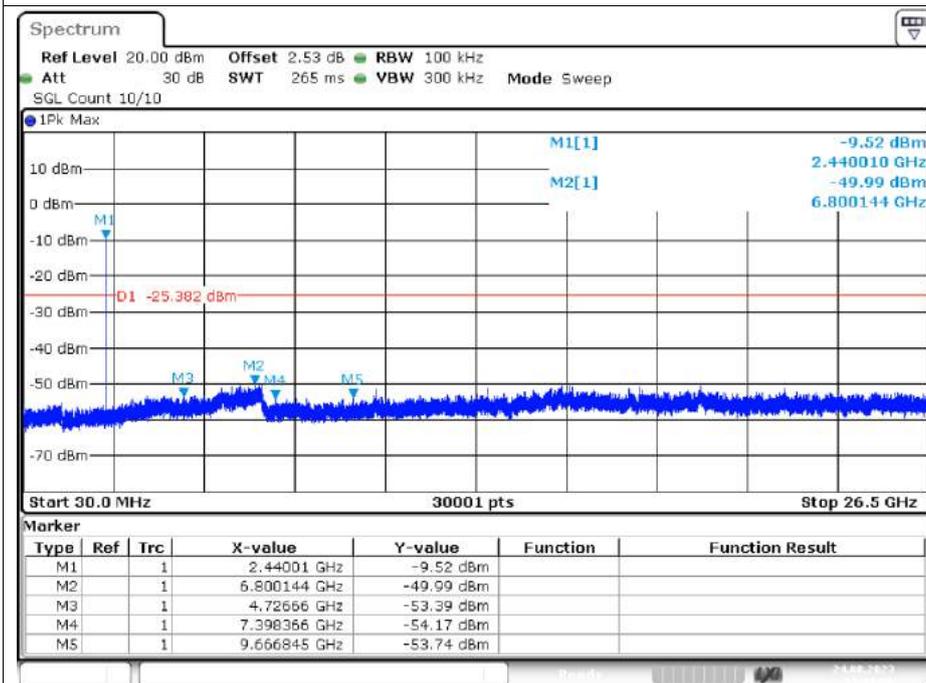
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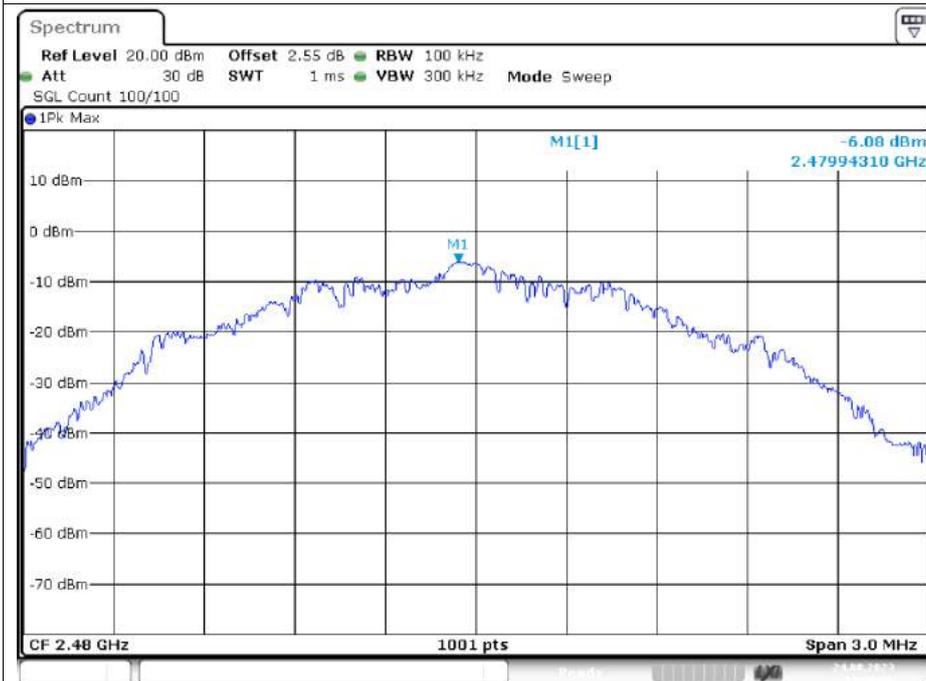
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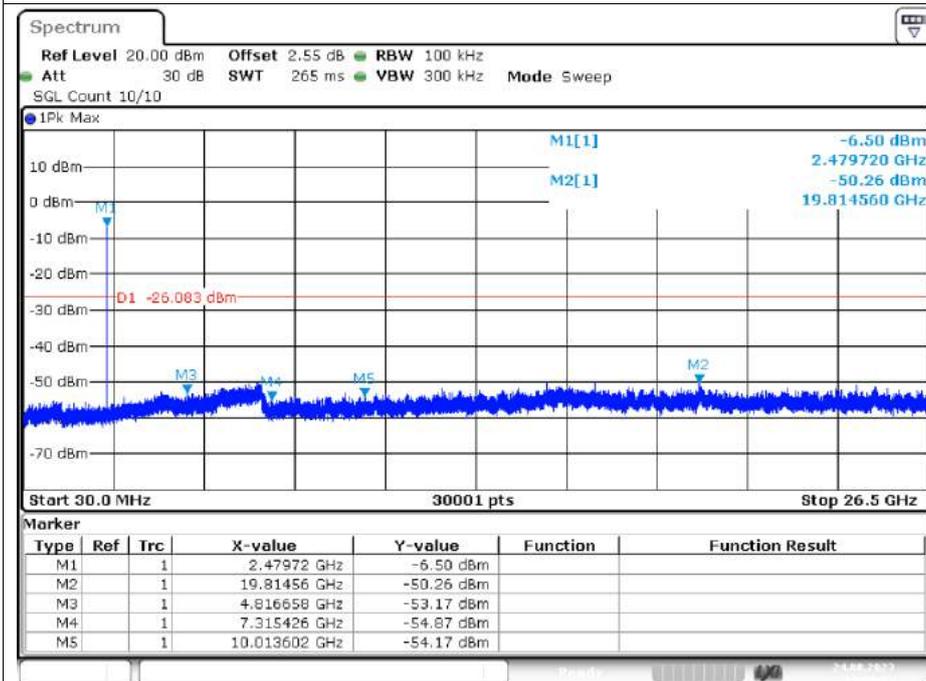
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Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Date: 24.AUG.2023 13:20:08

Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



Date: 24.AUG.2023 13:20:23