



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: SUUNTO RACE S

Test Model: OW233

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.698	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.725	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.721	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.289	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.245	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.251	≥ 0.5	Pass



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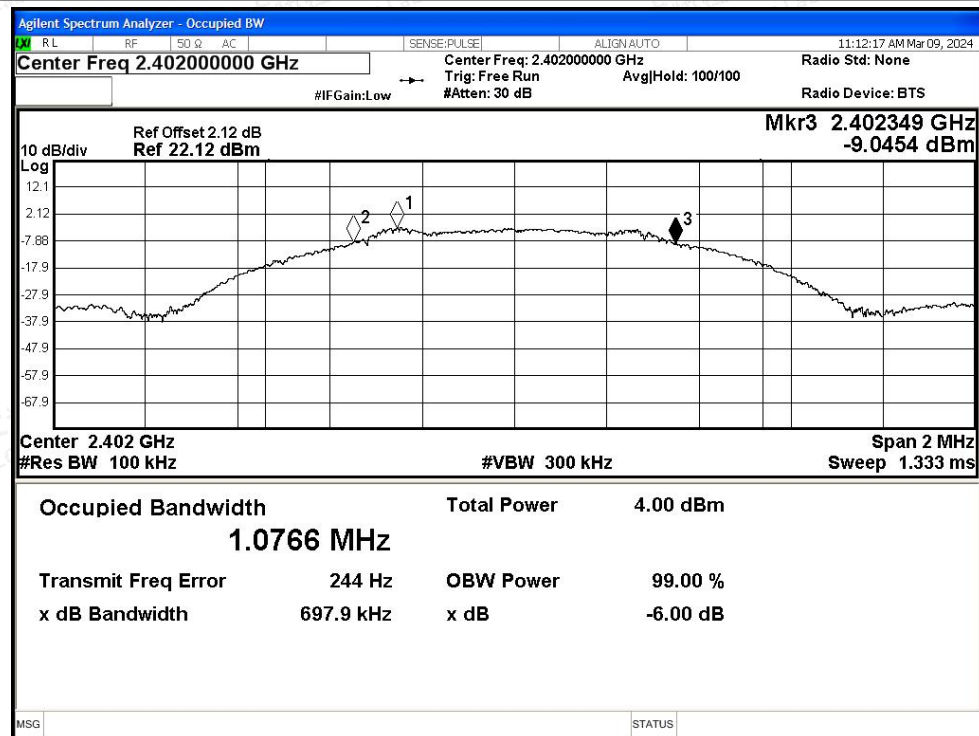
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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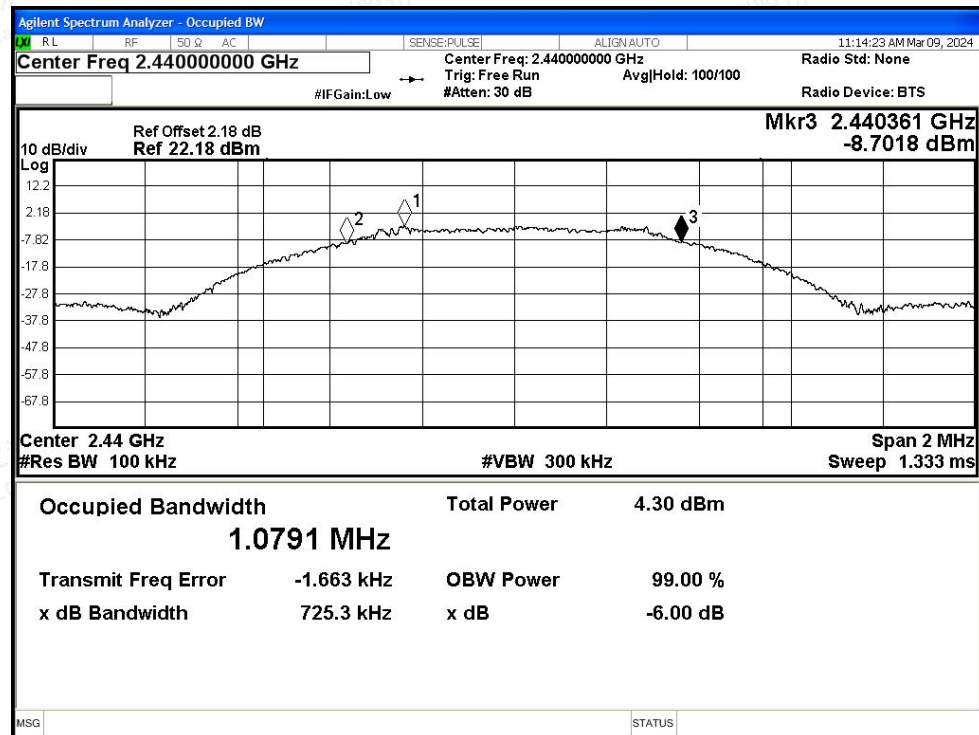


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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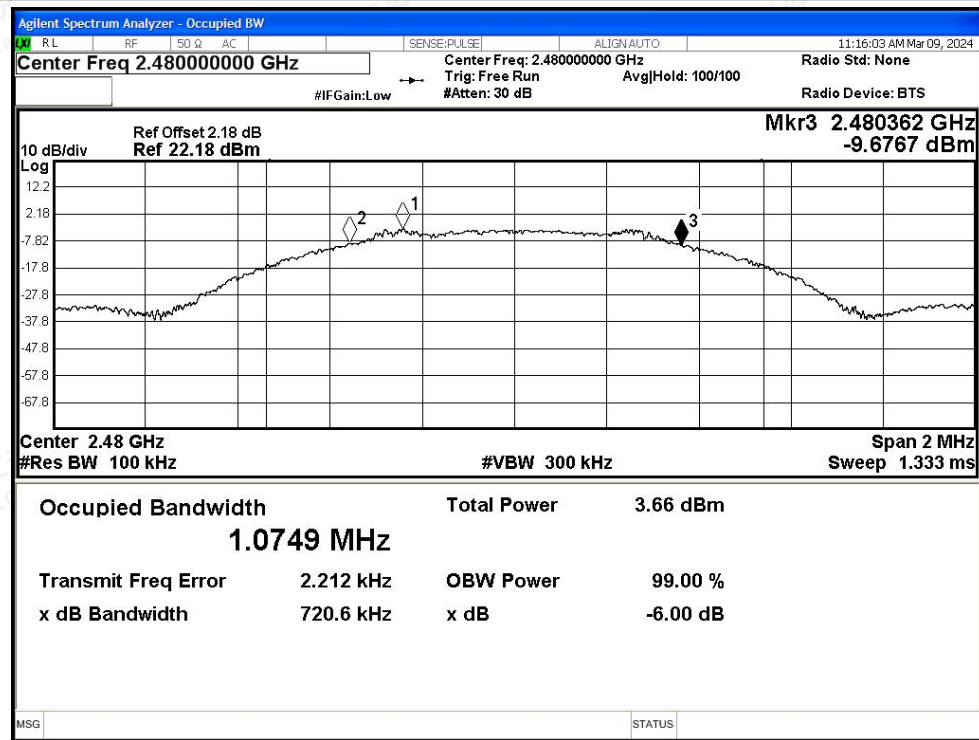
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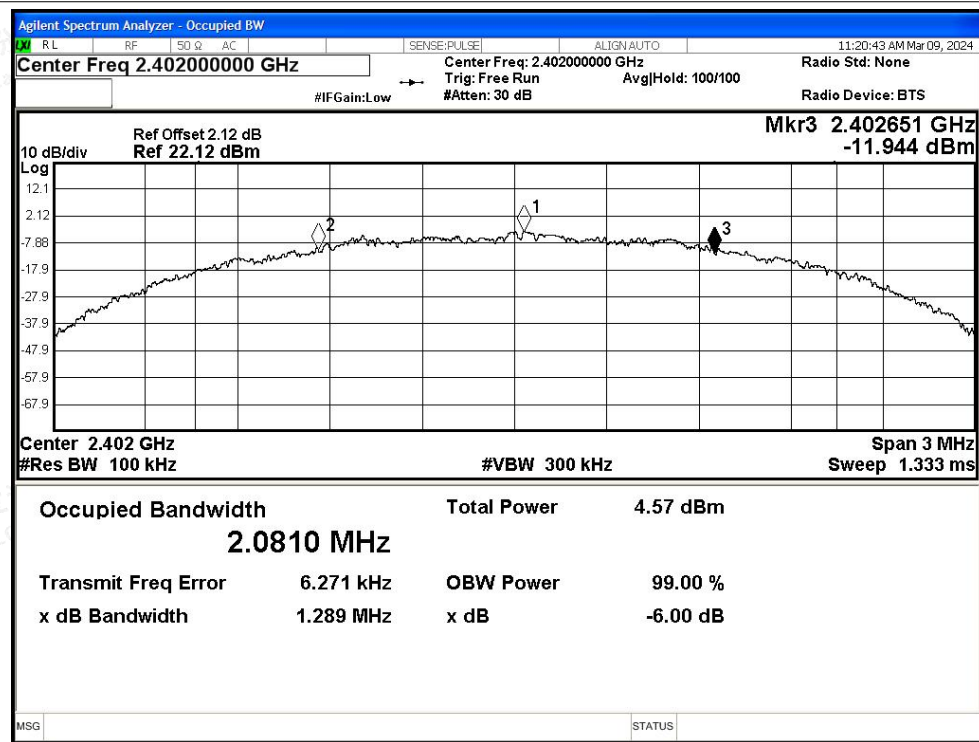
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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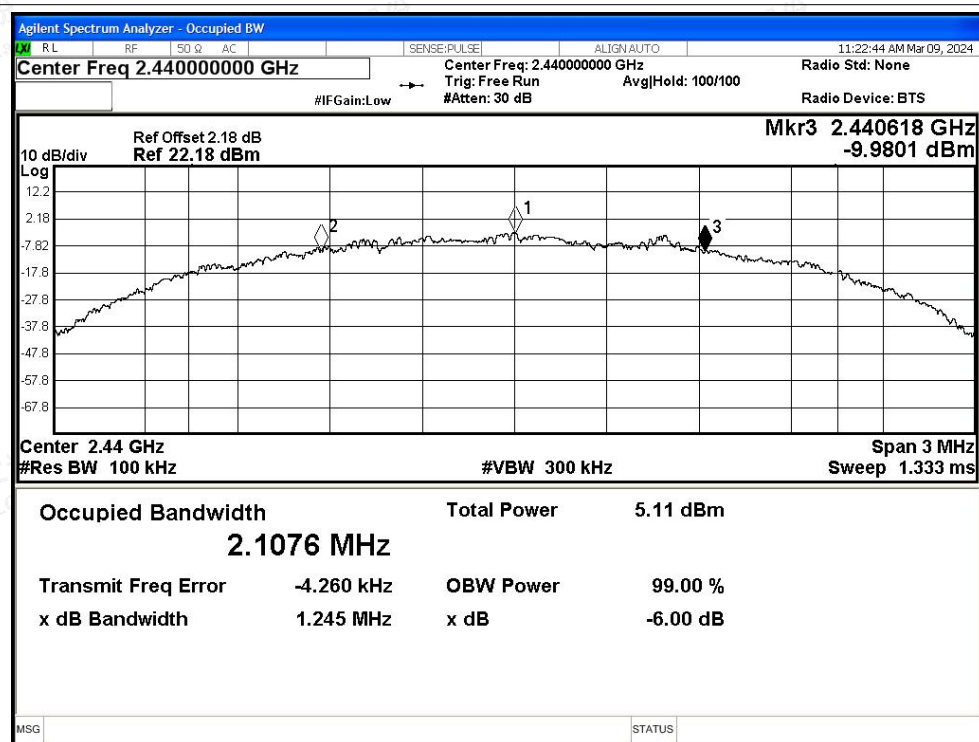
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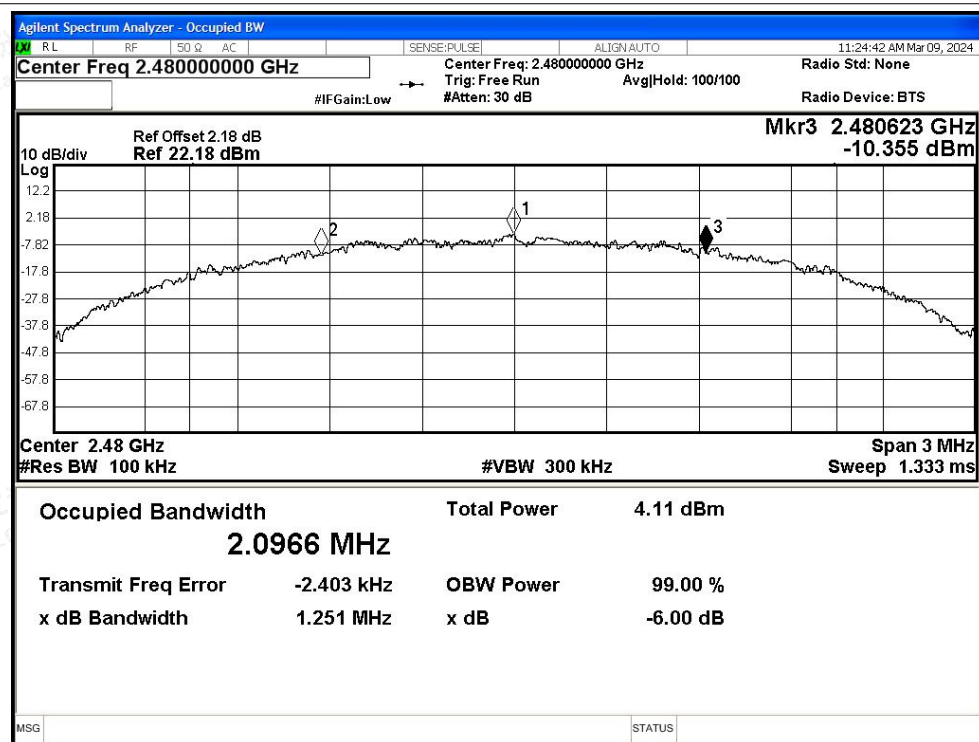
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-2.11	30	Pass
NVNT	BLE 1M	2440	Ant1	-1.67	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.42	30	Pass
NVNT	BLE 2M	2402	Ant1	-2.12	30	Pass
NVNT	BLE 2M	2440	Ant1	-1.68	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.41	30	Pass



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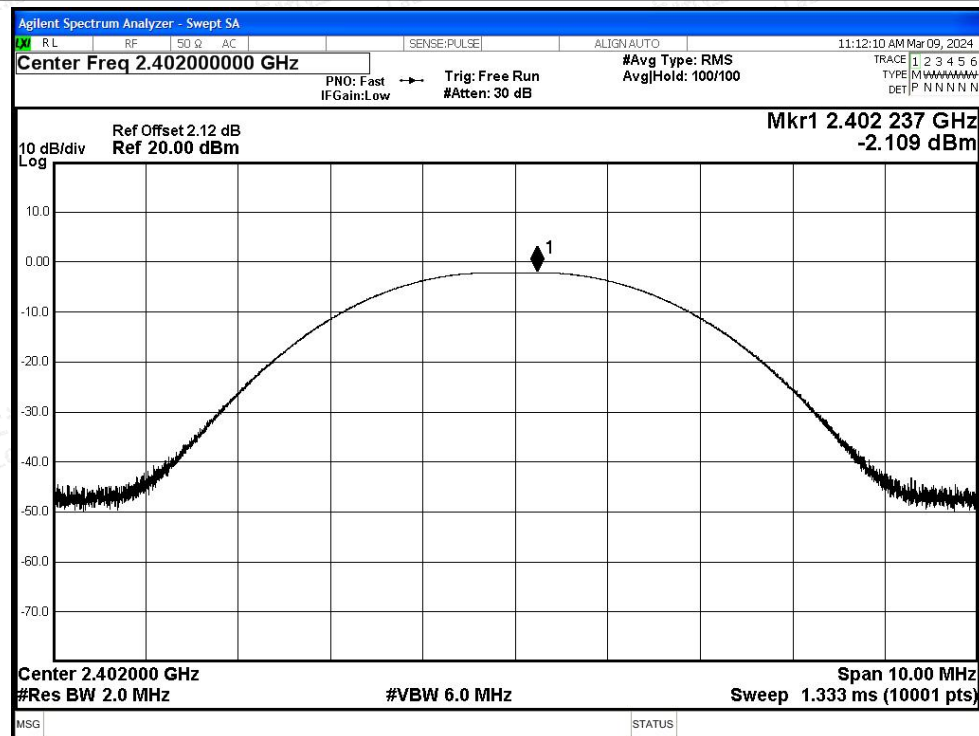
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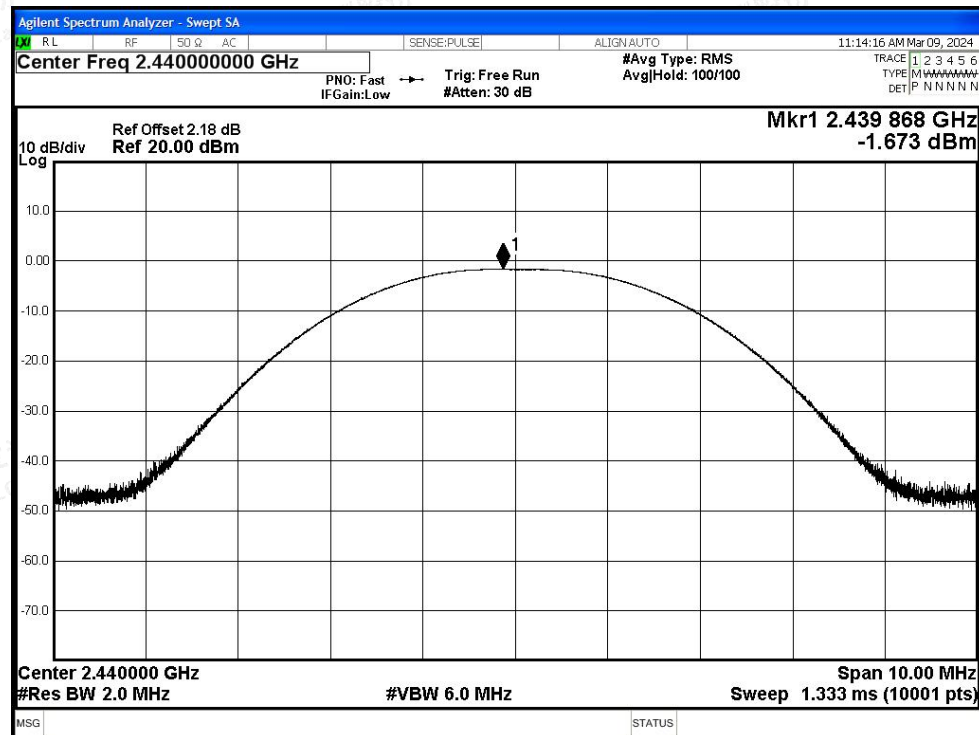


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

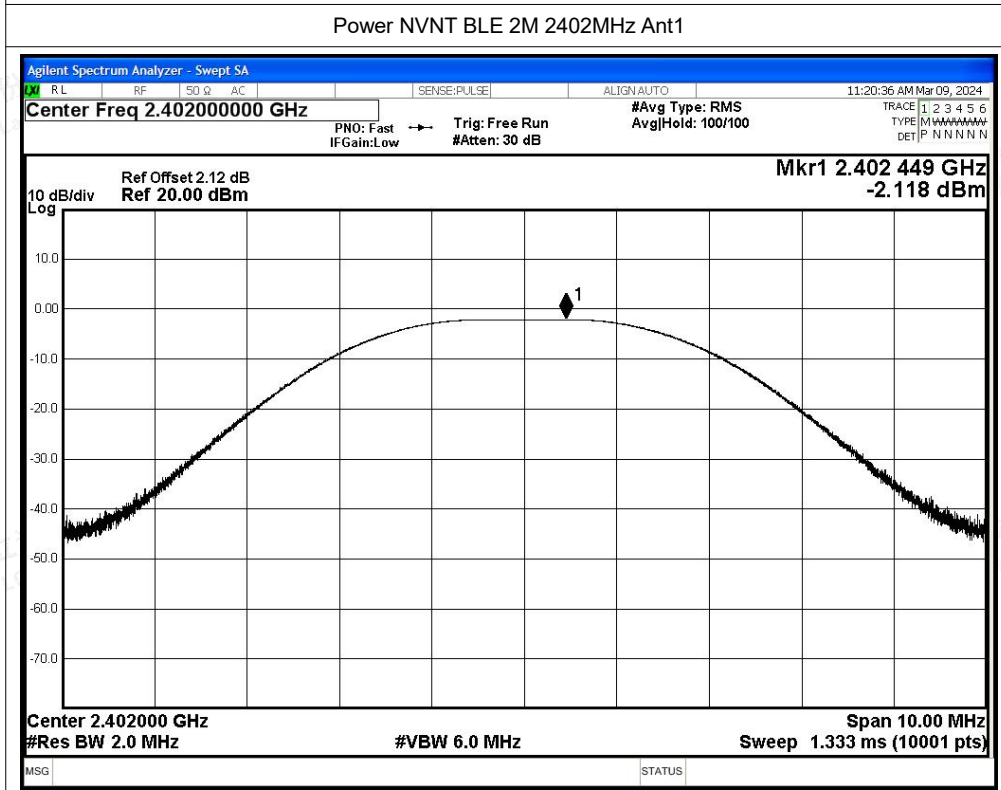
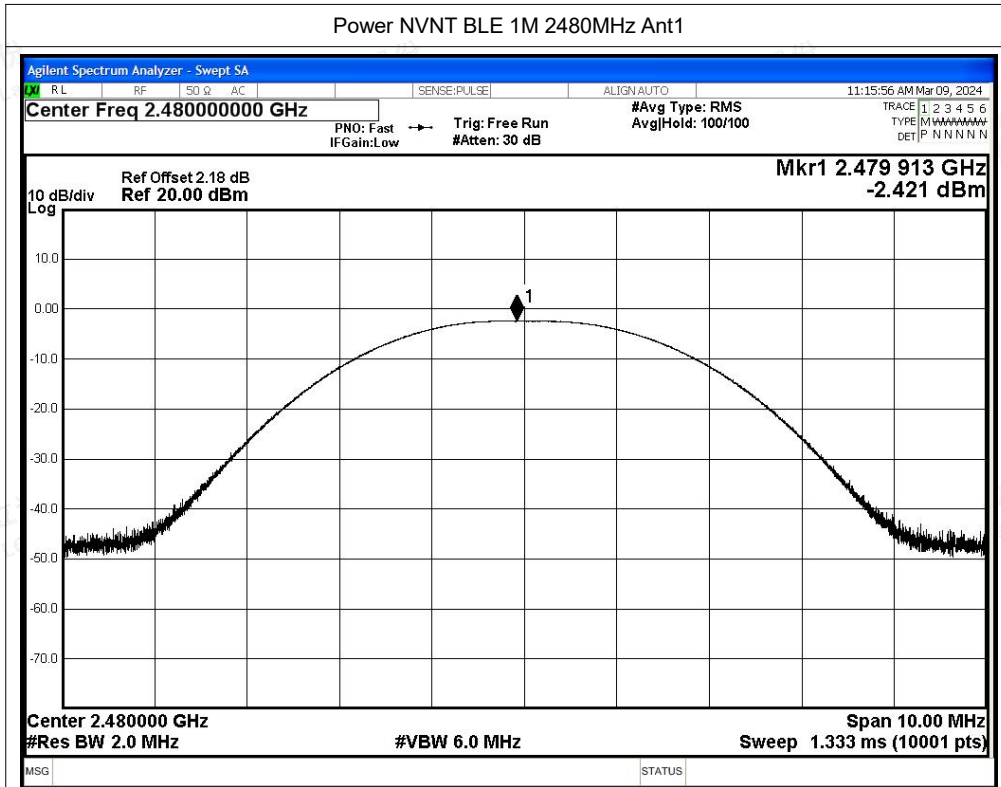


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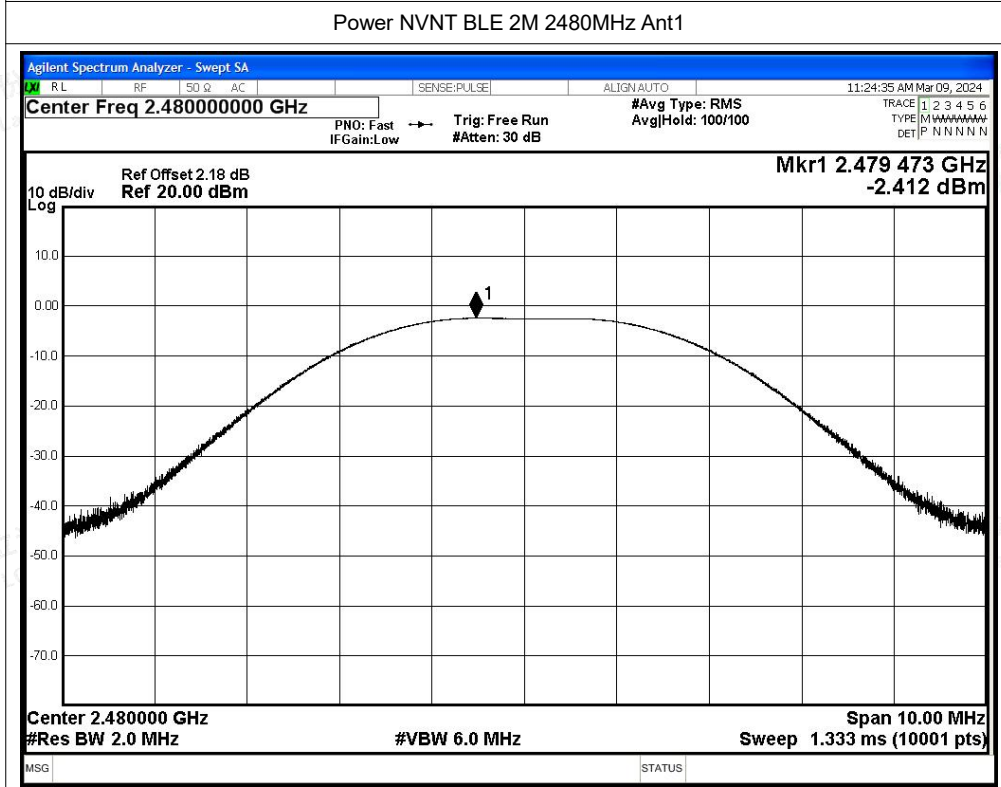
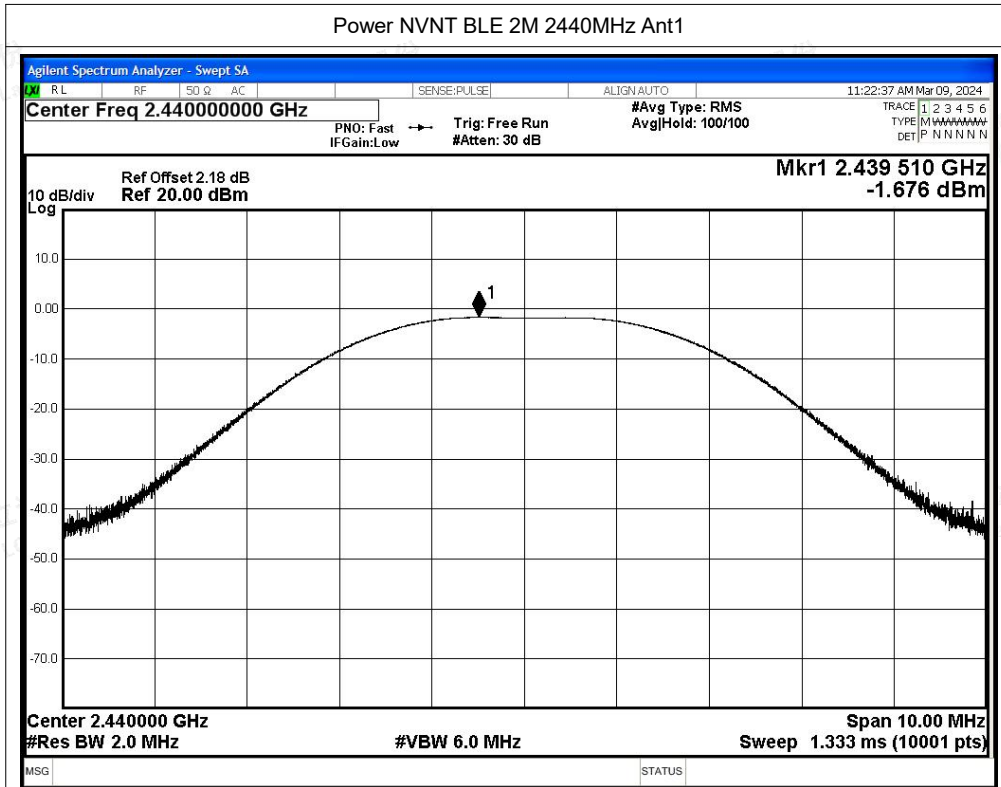


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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.58	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.38	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.53	8	Pass
NVNT	BLE 2M	2402	Ant1	-17.96	8	Pass
NVNT	BLE 2M	2440	Ant1	-17.69	8	Pass
NVNT	BLE 2M	2480	Ant1	-18.89	8	Pass



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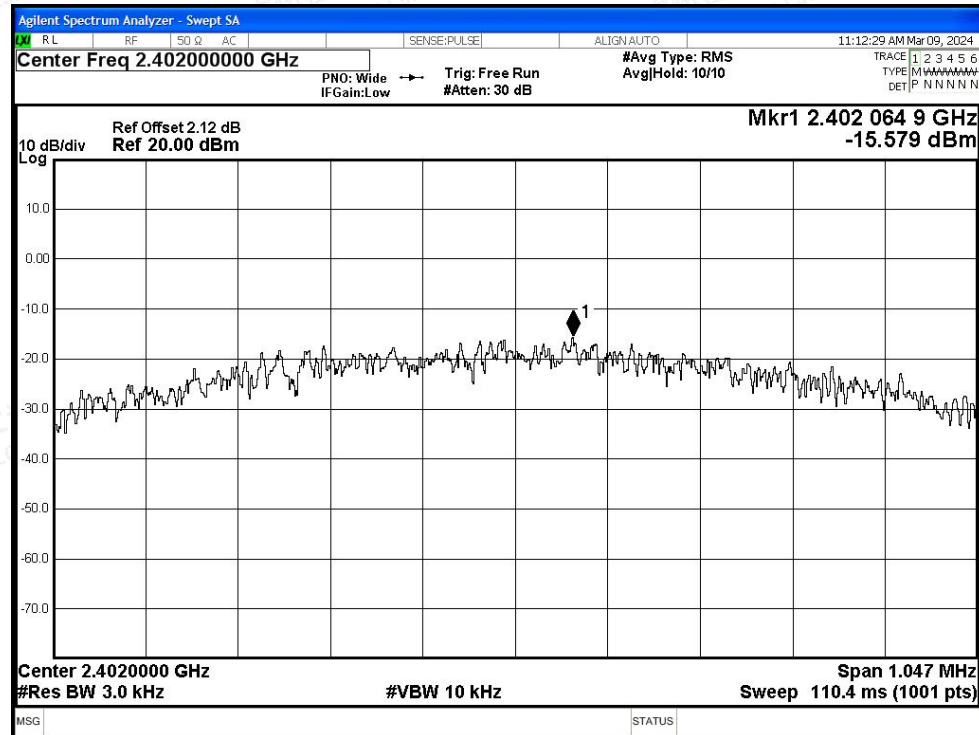
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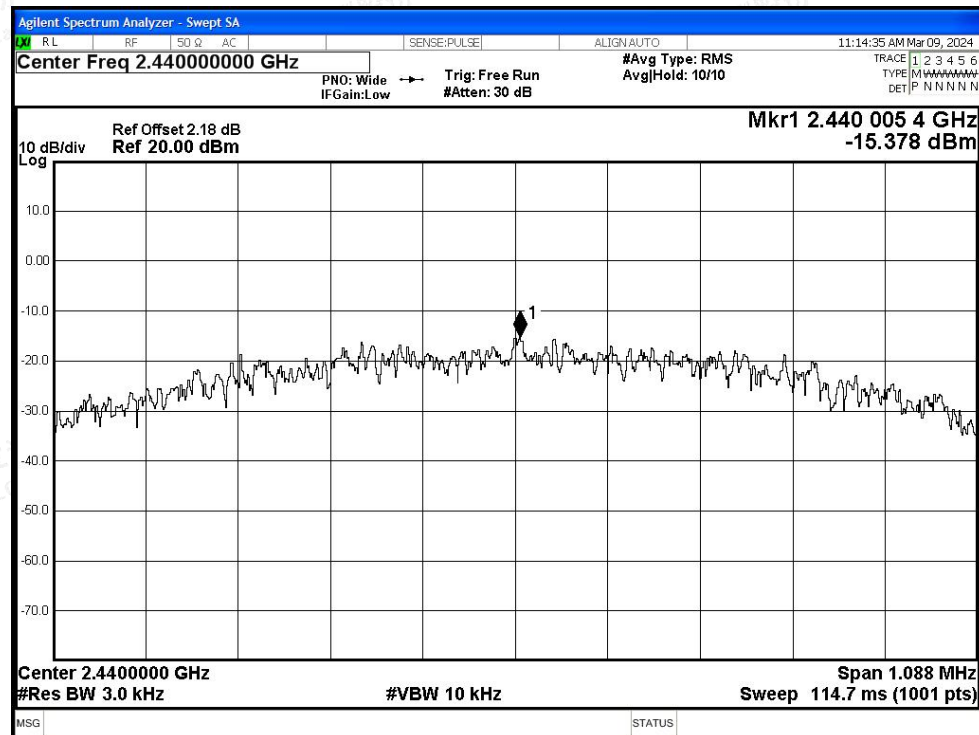


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



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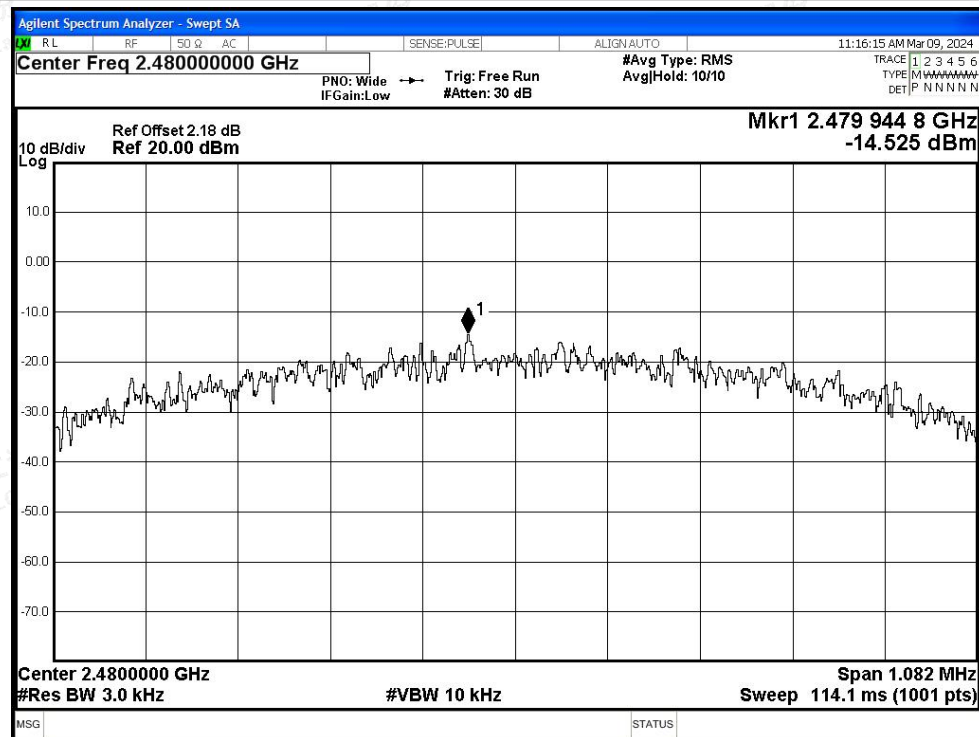
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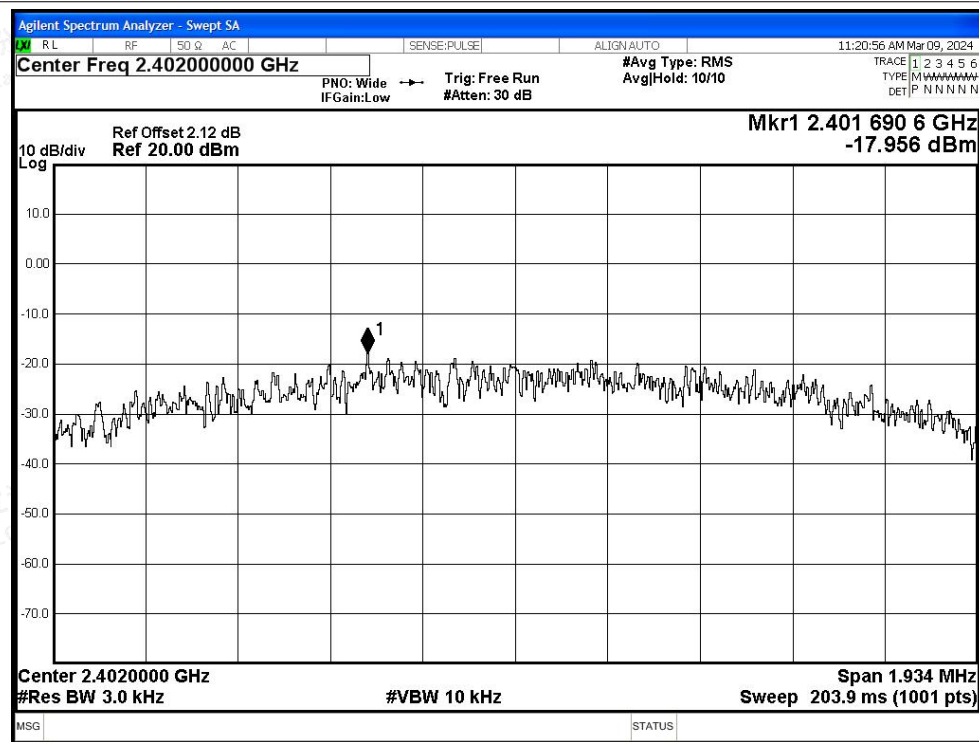
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PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



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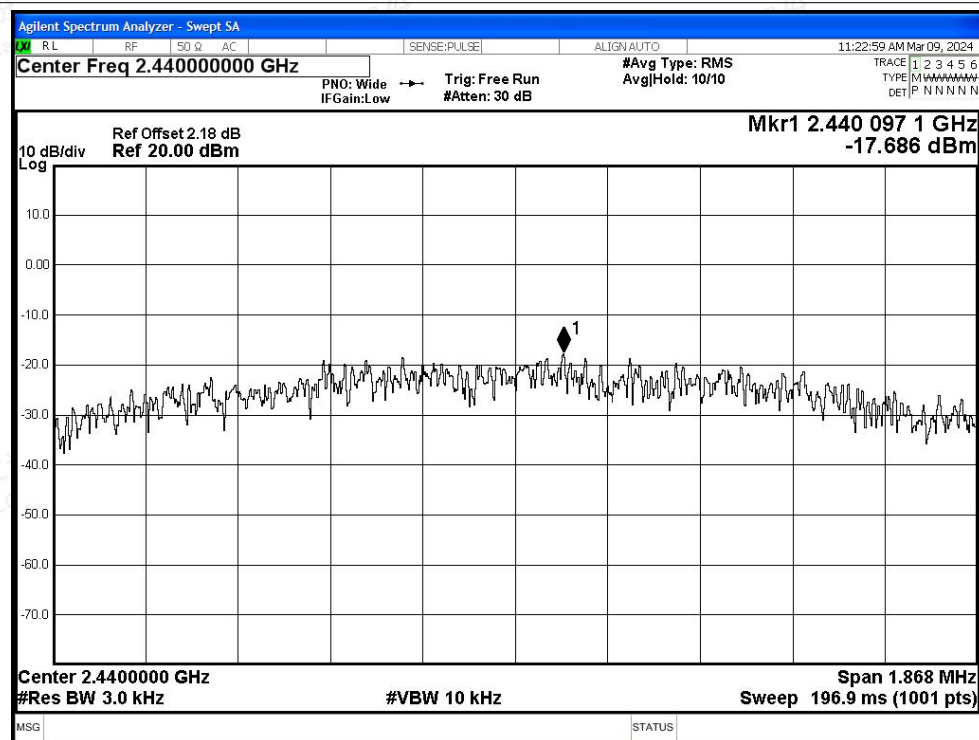
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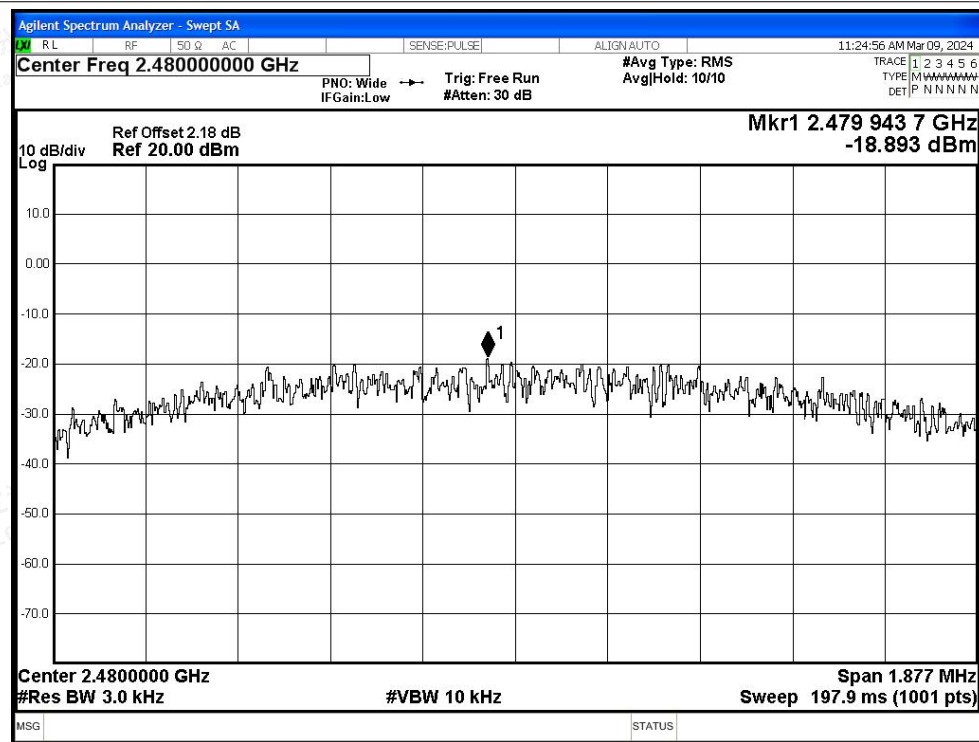
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PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz 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	-50.9	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.6	-20	Pass
NVNT	BLE 2M	2402	Ant1	-30.35	-20	Pass
NVNT	BLE 2M	2480	Ant1	-48.97	-20	Pass



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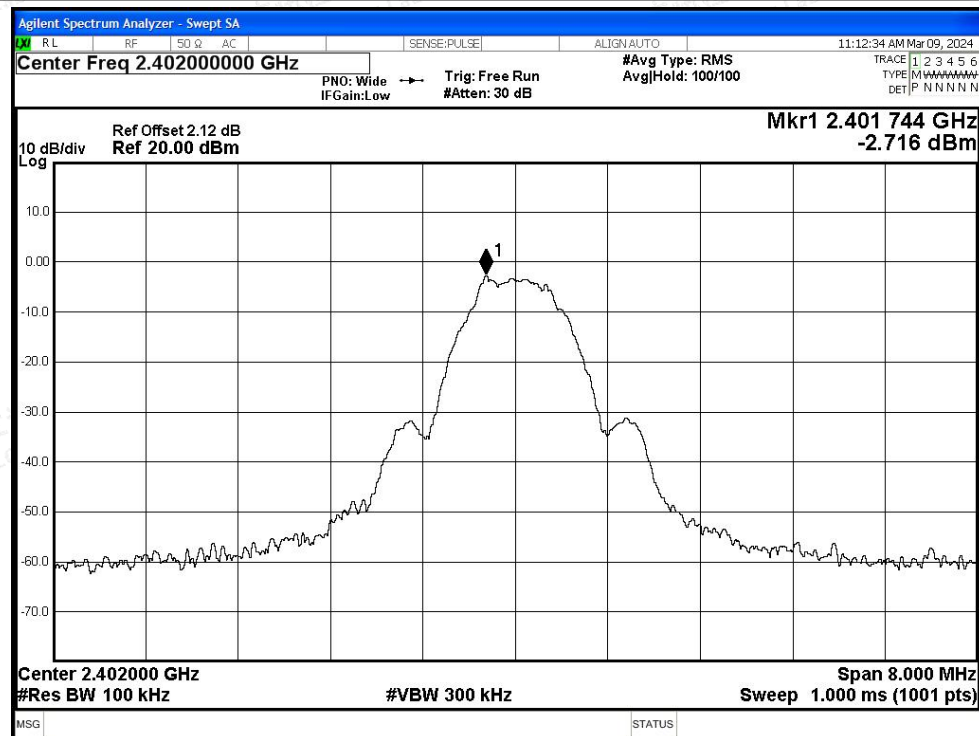
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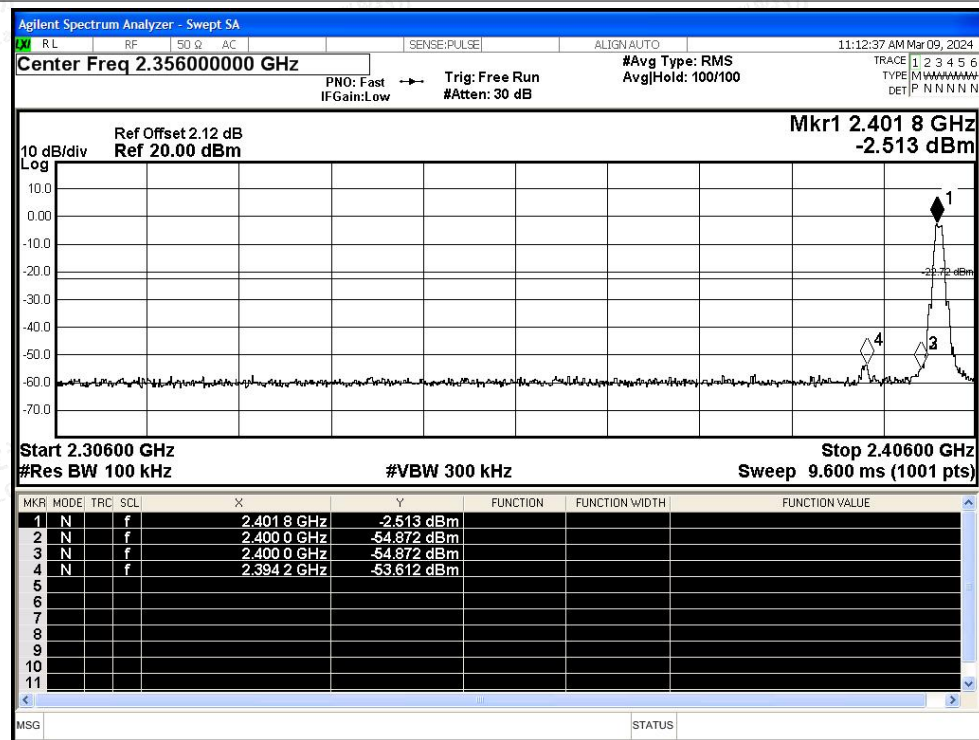


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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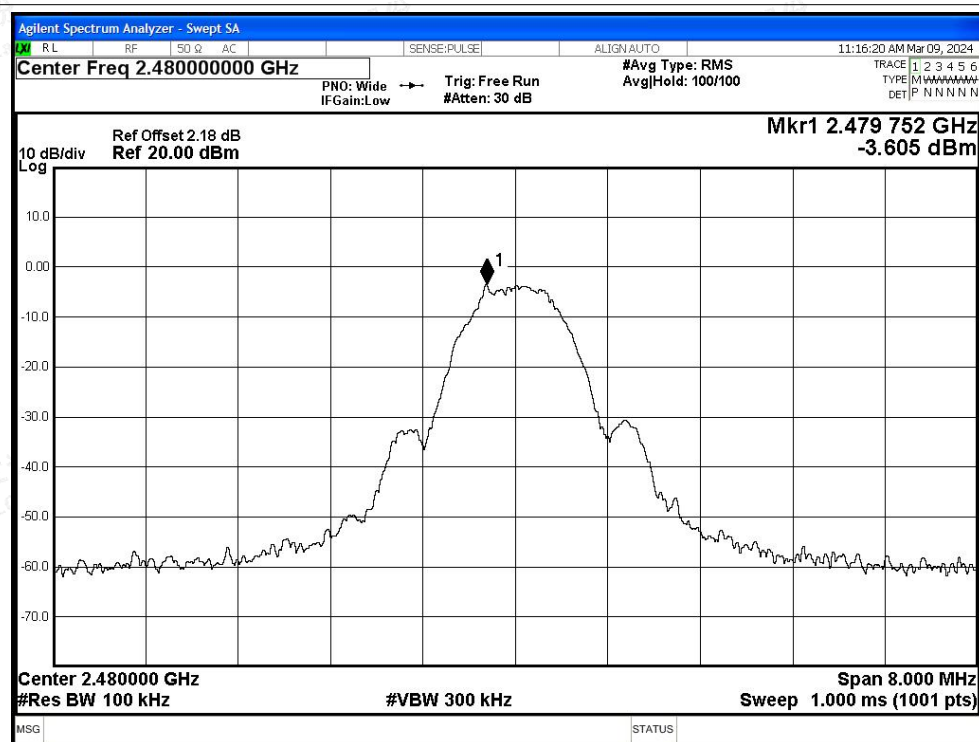
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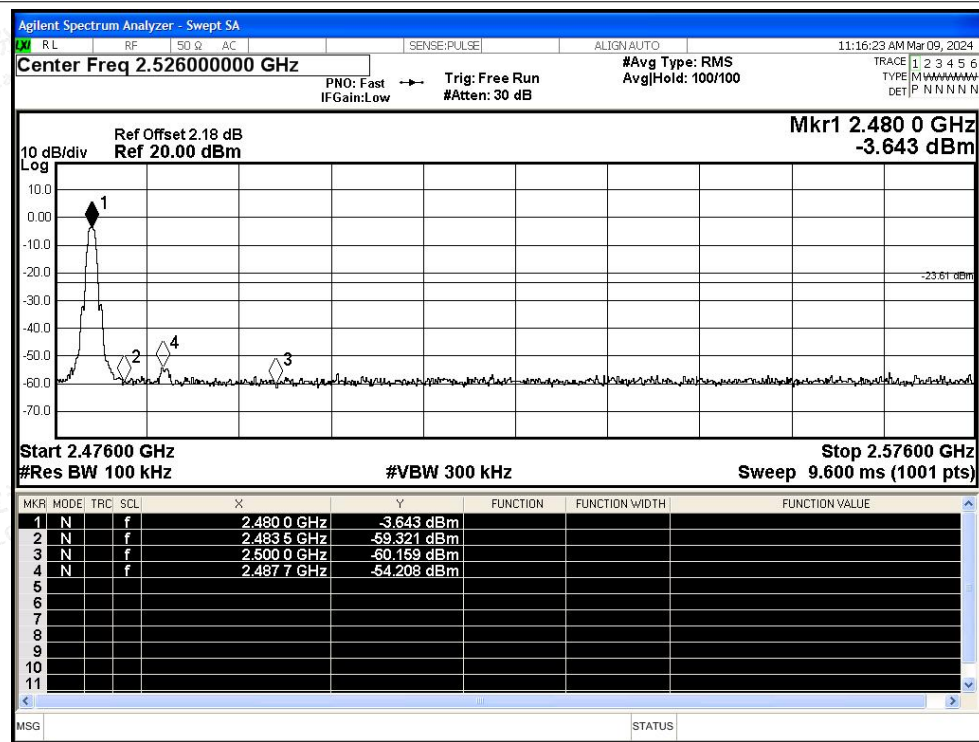
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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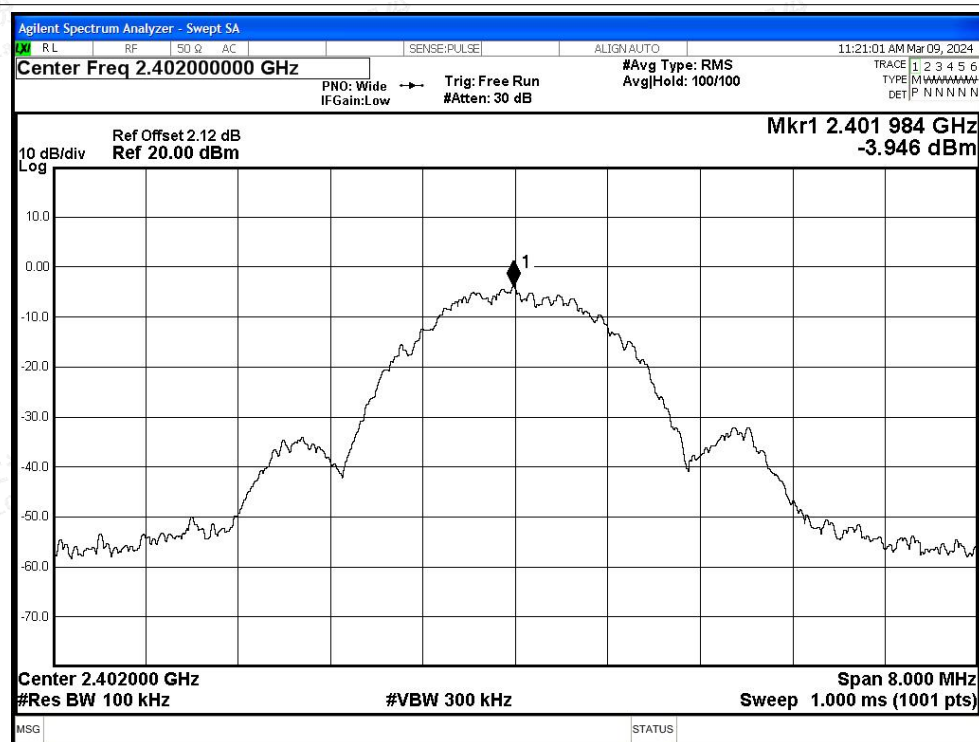
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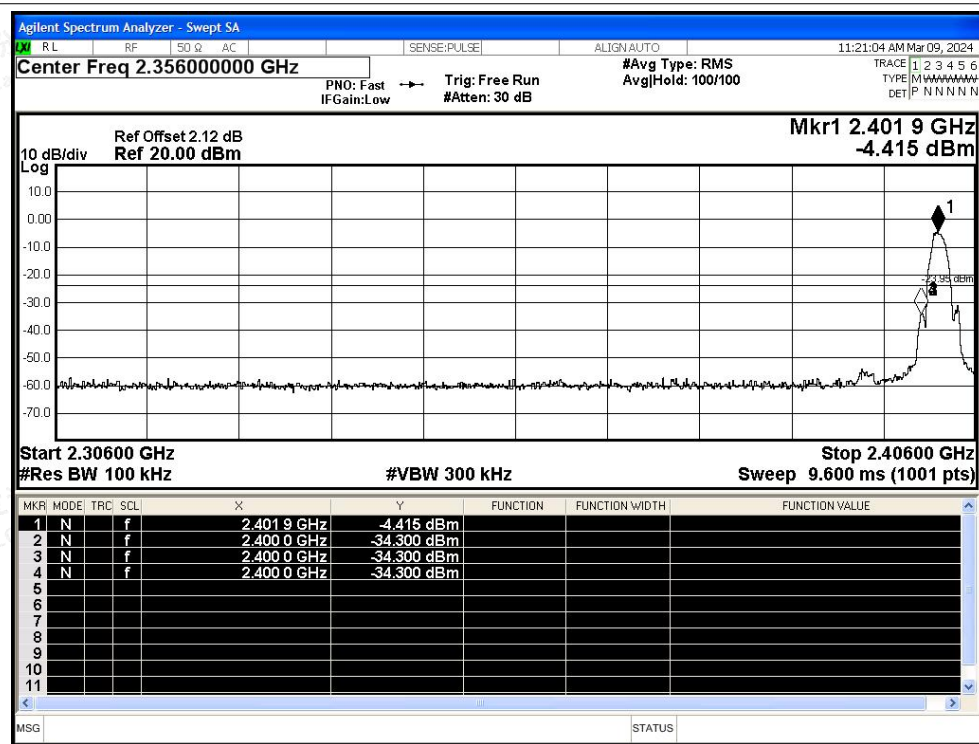
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Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



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